

Cover Page

Order ID : Q2359

Project ID : Air - TO-15

Client : Water Resource Technologies, Inc.

Lab Sample Number

Q2359-01

Client Sample Number

SS-1

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

Signature : _____

Date: 6/25/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



SHIPPING DOCUMENTS

Client Contact Information						Bottle Order ID : B2506027				Courier :				1 of 1 COCs															
Client ID : WATE03 Project ID : Air - TO-15						Sampler Name(s) :				Analysis				Matrix															
Customer Name : Water Resource Technologies, Inc. Address : 2 Kanouse Road City : Newfoundland State : NJ Zip Code : 07435 Country :						Project Manager : Bob okken				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																			
						Phone Number : 973-697-4700																							
						Fax Number : 9736973220																							
						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												
SS-1	6/17	12:20	1:23	30	9	65	67	-30	-8.4	10181	10280	6 L	100	VL042491.D															
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></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) [Signature]							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
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></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. 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: Sampling site (State):																													
Quick Connector required : <i>NO</i>																													
Canisters Shipped by: <i>Seam</i>				Date/Time: <i>06/13/25</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: <i>6/13/25</i>				B2506027 - 1													
Samples Relinquished by: <i>[Signature]</i>				Date/Time: <i>6-18-25</i>				Received by: <i>[Signature]</i>				Date/Time: <i>6-18-25 1414</i>																	
Relinquished by: <i>[Signature]</i>				Date/Time: <i>6-18-25 1630</i>				Received by: <i>[Signature]</i>				Date/Time:																	

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

~~NOGE~~

Title: Sample Custodian

Field Sample Seal No. Q2359

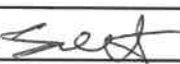
Date Broken 6/19/2025

Military Time Seal Broken: 02:14:00
~~00:00:00~~

Case No.: Air - TO-15

Analytical Parameter/Fraction TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2359-01	SS-1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
6/19	0845	Signature 	Signature 	
		Printed Name <u>George N.</u>	Printed Name <u>Sample Custodian</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

Analyst Signature: [Signature] Supervisor Signature: [Signature]
METHOD: TO-15 Pressure Gauge ID: A 255971

Document Control # A3041228

802

8.4

284 Sheffield Street, Mountinside, NJ 07092 P. (96

CHEMTECH'S SAMPLE ID: _____

Date Received: _____

Expiration Date: _____

Comments: _____

Analysis: _____

Date: _____

Time: _____

Project Name: _____

Client Name: _____

Client Sample ID #: _____

Storage Location: D41
Sample: Q2359-01
Cust #: SS-1

22506027

(08)789-8922



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

CASE NARRATIVE

Water Resource Technologies, Inc.

Project Name: Air - TO-15

Project # N/A

Order ID # Q2359

Test Name: TO-15

A. Number of Samples and Date of Receipt:

1 Air sample was received on 06/19/2025.

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 met criteria .

The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

Sample SS-1 was diluted due to high concentration.

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 #SS-1 and SS-1DL 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	VL052925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042579.D	Ethanol	SAM	5/30/2025 7:46:58 AM	MMDado da	5/30/2025 12:25:20 PM	Peak Integrated by Software incorrectly
VSTDICCC010	VL042579.D	m/p-Xylene	SAM	5/30/2025 7:46:58 AM	MMDado da	5/30/2025 12:25:20 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042580.D	1,4-Dioxane	SAM	5/30/2025 7:47:04 AM	MMDado da	5/30/2025 12:25:22 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042580.D	Ethanol	SAM	5/30/2025 7:47:04 AM	MMDado da	5/30/2025 12:25:22 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042580.D	m/p-Xylene	SAM	5/30/2025 7:47:04 AM	MMDado da	5/30/2025 12:25:22 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042580.D	Methyl Methacrylate	SAM	5/30/2025 7:47:04 AM	MMDado da	5/30/2025 12:25:22 PM	Peak Integrated by Software incorrectly

VSTDICCO02	VL042580.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:47:04 AM	MMDado da	5/30/2025 12:25:22 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042581.D	1,1,2-Trichloroethane	SAM	5/30/2025 7:47:55 AM	MMDado da	5/30/2025 12:25:24 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042581.D	1,4-Dioxane	SAM	5/30/2025 7:47:55 AM	MMDado da	5/30/2025 12:25:24 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042581.D	2,2,4-Trimethylpentane	SAM	5/30/2025 7:47:55 AM	MMDado da	5/30/2025 12:25:24 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042581.D	cis-1,3-Dichloropropene	SAM	5/30/2025 7:47:55 AM	MMDado da	5/30/2025 12:25:24 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042581.D	Heptane	SAM	5/30/2025 7:47:55 AM	MMDado da	5/30/2025 12:25:24 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042581.D	m/p-Xylene	SAM	5/30/2025 7:47:55 AM	MMDado da	5/30/2025 12:25:24 PM	Peak Integrated by Software incorrectly

VSTDICCO01	VL042581.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:47:55 AM	MMDado da	5/30/2025 12:25:24 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL042582.D	1,1,2-Trichloroethane	SAM	5/30/2025 7:48:07 AM	MMDado da	5/30/2025 12:25:26 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL042582.D	1,2-Dichloropropane	SAM	5/30/2025 7:48:07 AM	MMDado da	5/30/2025 12:25:26 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL042582.D	1,4-Dioxane	SAM	5/30/2025 7:48:07 AM	MMDado da	5/30/2025 12:25:26 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL042582.D	4-Methyl-2-Pentanone	SAM	5/30/2025 7:48:07 AM	MMDado da	5/30/2025 12:25:26 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL042582.D	Benzyl Chloride	SAM	5/30/2025 7:48:07 AM	MMDado da	5/30/2025 12:25:26 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL042582.D	cis-1,3-Dichloropropene	SAM	5/30/2025 7:48:07 AM	MMDado da	5/30/2025 12:25:26 PM	Peak Integrated by Software incorrectly

VSTDIC0.5	VL04258 2.D	Cyclohexane	SAM	5/30/20 25 7:48:07 AM	MMDado da	5/30/20 25 12:25:26 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL04258 2.D	Dibromochloromethane	SAM	5/30/20 25 7:48:07 AM	MMDado da	5/30/20 25 12:25:26 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL04258 2.D	Ethanol	SAM	5/30/20 25 7:48:07 AM	MMDado da	5/30/20 25 12:25:26 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL04258 2.D	m/p-Xylene	SAM	5/30/20 25 7:48:07 AM	MMDado da	5/30/20 25 12:25:26 PM	Peak Integrated by Software incorrectly
VSTDIC0.1	VL04258 3.D	1,2-Dibromoethane	SAM	5/30/20 25 7:48:14 AM	MMDado da	5/30/20 25 12:25:28 PM	Peak Integrated by Software incorrectly
VSTDIC0.1	VL04258 3.D	Naphthalene	SAM	5/30/20 25 7:48:14 AM	MMDado da	5/30/20 25 12:25:28 PM	Peak Integrated by Software incorrectly
VSTDIC0.1	VL04258 3.D	Tetrachloroethene	SAM	5/30/20 25 7:48:14 AM	MMDado da	5/30/20 25 12:25:28 PM	Peak Integrated by Software incorrectly

VSTDICCO.1	VL04258 3.D	Trichloroethene	SAM	5/30/20 25 7:48:14 AM	MMDado da	5/30/20 25 12:25:28 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL04258 4.D	1,1,1-Trichloroethane	SAM	5/30/20 25 7:47:15 AM	MMDado da	5/30/20 25 12:25:30 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL04258 4.D	Carbon Tetrachloride	SAM	5/30/20 25 7:47:15 AM	MMDado da	5/30/20 25 12:25:30 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL04258 4.D	Tetrachloroethene	SAM	5/30/20 25 7:47:15 AM	MMDado da	5/30/20 25 12:25:30 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL04258 4.D	Trichloroethene	SAM	5/30/20 25 7:47:15 AM	MMDado da	5/30/20 25 12:25:30 PM	Peak Integrated by Software incorrectly
VSTDICCO 15	VL04258 5.D	Ethanol	SAM	5/30/20 25 7:48:19 AM	MMDado da	5/30/20 25 12:25:32 PM	Peak Integrated by Software incorrectly
VSTDICCO 15	VL04258 5.D	m/p-Xylene	SAM	5/30/20 25 7:48:19 AM	MMDado da	5/30/20 25 12:25:32 PM	Peak Integrated by Software incorrectly

VSTDICV010	VL042586.D	Ethanol	SAM	5/30/2025 7:48:25 AM	MMDado da	5/30/2025 12:25:34 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042586.D	m/p-Xylene	SAM	5/30/2025 7:48:25 AM	MMDado da	5/30/2025 12:25:34 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042586.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:48:25 AM	MMDado da	5/30/2025 12:25:34 PM	Peak Integrated by Software incorrectly

Manual Integration Report			
Sequence	VL061925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
STDCCC010	VL042647.D	m/p-Xylene	SAM	6/23/2025 7:55:57 AM	MMDado da	6/23/2025 1:16:41 PM	Peak Integrated by Software incorrectly
VL0619ABS01	VL042649.D	m/p-Xylene	SAM	6/23/2025 7:56:11 AM	MMDado da	6/23/2025 1:16:45 PM	Peak Integrated by Software incorrectly
Q2359-01DL	VL042650.D	Chloromethane	SAM	6/23/2025 7:56:55 AM	MMDado da	6/23/2025 1:16:48 PM	Peak Integrated by Software

							incorrectly
Q2359-01DL	VL04265 0.D	Heptane	SAM	6/23/20 25 7:56:55 AM	MMDado da	6/23/20 25 1:16:48 PM	Peak Integrated by Software incorrectly
Q2359-01DL	VL04265 0.D	m/p-Xylene	SAM	6/23/20 25 7:56:55 AM	MMDado da	6/23/20 25 1:16:48 PM	Peak Integrated by Software incorrectly
Q2359-01	VL04265 1.D	2,2,4-Trimethylpentane	SAM	6/23/20 25 7:56:21 AM	MMDado da	6/23/20 25 1:16:50 PM	Peak Integrated by Software incorrectly
Q2359-01	VL04265 1.D	Chlorodifluoromethane	SAM	6/23/20 25 7:56:21 AM	MMDado da	6/23/20 25 1:16:50 PM	Peak Integrated by Software incorrectly
Q2359-01	VL04265 1.D	n-Butylbenzene	SAM	6/23/20 25 7:56:21 AM	MMDado da	6/23/20 25 1:16:50 PM	Peak Integrated by Software incorrectly
Q2359-01	VL04265 1.D	Vinyl Acetate	SAM	6/23/20 25 7:56:21 AM	MMDado da	6/23/20 25 1:16:50 PM	Peak Integrated by Software incorrectly
Q2359-01	VL04265 1.D	Vinyl Chloride	SAM	6/23/20 25 7:56:21 AM	MMDado da	6/23/20 25 1:16:50 PM	Peak Integrated by Software

							e incorec tly
Q2359-01DUP	VL04265 2.D	2,2,4-Trimethylpentane	SAM	6/23/2025 7:57:00 AM	MMDado da	6/23/2025 1:16:54 PM	Peak Integrat ed by Softwar e incorrec tly
Q2359-01DUP	VL04265 2.D	Carbon Tetrachloride	SAM	6/23/2025 7:57:00 AM	MMDado da	6/23/2025 1:16:54 PM	Peak Integrat ed by Softwar e incorrec tly
Q2359-01DUP	VL04265 2.D	Chlorodifluoromet hane	SAM	6/23/2025 7:57:00 AM	MMDado da	6/23/2025 1:16:54 PM	Peak Integrat ed by Softwar e incorrec tly
Q2359-01DUP	VL04265 2.D	Ethyl Benzene	SAM	6/23/2025 7:57:00 AM	MMDado da	6/23/2025 1:16:54 PM	Peak Integrat ed by Softwar e incorrec tly
Q2359-01DUP	VL04265 2.D	n-Butylbenzene	SAM	6/23/2025 7:57:00 AM	MMDado da	6/23/2025 1:16:54 PM	Peak Integrat ed by Softwar e incorrec tly
Q2359-01DUP	VL04265 2.D	Naphthalene,2-methyl-	SAM	6/23/2025 7:57:00 AM	MMDado da	6/23/2025 1:16:54 PM	Peak Integrat ed by Softwar e incorrec tly
Q2359-01DUP	VL04265 2.D	Vinyl Acetate	SAM	6/23/2025 7:57:00	MMDado da	6/23/2025 1:16:54	Peak Integrat ed by



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

				AM		PM	Software incorrectly
Q2359-01DUP	VL04265 2.D	Vinyl Chloride	SAM	6/23/2025 7:57:00 AM	MMDado da	6/23/2025 1:16:54 PM	Peak Integrated by Software incorrectly

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2359

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 Castody

✓

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: 06/25/2025

LAB CHRONICLE

OrderID:	Q2359	OrderDate:	6/18/2025 2:24:00 PM
Client:	Water Resource Technologies, Inc.	Project:	Air - TO-15
Contact:	Bob Okken	Location:	D41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2359-01	SS-1	Air	TO-15	TO-15	06/17/25		06/19/25	06/19/25
Q2359-01DL	SS-1DL	Air	TO-15	TO-15	06/17/25		06/19/25	06/19/25

Hit Summary Sheet SW-846

SDG No.: Q2359

Client: Water Resource Technologies, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SS-1							
Q2359-01	SS-1	Air	Dichlorodifluoromethane	2.87		0.54	2.47	ug/m3
Q2359-01	SS-1	Air	Chloromethane	4.96		0.21	1.03	ug/m3
Q2359-01	SS-1	Air	Vinyl Chloride	0.10		0.080	0.080	ug/m3
Q2359-01	SS-1	Air	Tetrahydrofuran	46.3	E	0.24	1.47	ug/m3
Q2359-01	SS-1	Air	Trichlorofluoromethane	1.40	J	0.96	2.81	ug/m3
Q2359-01	SS-1	Air	Heptane	8.20		0.70	2.05	ug/m3
Q2359-01	SS-1	Air	Acetone	70.1	E	0.43	1.19	ug/m3
Q2359-01	SS-1	Air	Methylene Chloride	11.8		0.80	1.74	ug/m3
Q2359-01	SS-1	Air	2-Butanone	8.55		0.18	1.47	ug/m3
Q2359-01	SS-1	Air	Carbon Tetrachloride	0.82		0.19	0.19	ug/m3
Q2359-01	SS-1	Air	cis-1,2-Dichloroethene	21.8		0.40	1.98	ug/m3
Q2359-01	SS-1	Air	Chloroform	1.32	J	0.49	2.44	ug/m3
Q2359-01	SS-1	Air	Benzene	1.82		0.26	1.60	ug/m3
Q2359-01	SS-1	Air	Toluene	3.28		0.60	1.88	ug/m3
Q2359-01	SS-1	Air	Ethyl Benzene	2.39		0.83	2.17	ug/m3
Q2359-01	SS-1	Air	m/p-Xylene	13.0		1.78	4.34	ug/m3
Q2359-01	SS-1	Air	o-Xylene	3.65		0.91	2.17	ug/m3
Q2359-01	SS-1	Air	1,3,5-Trimethylbenzene	0.93	J	0.88	2.46	ug/m3
Q2359-01	SS-1	Air	1,2,4-Trimethylbenzene	4.42		0.88	2.46	ug/m3
Q2359-01	SS-1	Air	Naphthalene	2.78		0.050	0.52	ug/m3
Q2359-01	SS-1	Air	Hexane	3.88		0.56	1.76	ug/m3
Total Voc :					214			
Total Concentration:					214			
Client ID:	SS-1DL							
Q2359-01DL	SS-1DL	Air	Chloromethane	7.23	JD	2.02	10.3	ug/m3
Q2359-01DL	SS-1DL	Air	Tetrahydrofuran	37.2	D	2.36	14.8	ug/m3
Q2359-01DL	SS-1DL	Air	Heptane	7.79	JD	6.97	20.5	ug/m3
Q2359-01DL	SS-1DL	Air	Acetone	77.2	D	4.28	11.9	ug/m3
Q2359-01DL	SS-1DL	Air	Methylene Chloride	18.8	D	7.99	17.4	ug/m3
Q2359-01DL	SS-1DL	Air	2-Butanone	8.55	JD	1.65	14.8	ug/m3
Q2359-01DL	SS-1DL	Air	cis-1,2-Dichloroethene	20.2	D	3.93	19.8	ug/m3
Total Voc :					177			
Total Concentration:					177			

Project : Air - TO-15

Field Id Number : SS-1

Laboratory Id Number : Q2359-01

Sampling Date : 06/17/25

Analysis Date : 06/19/25

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	0.58		2.87		
Chloromethane	74-87-3	50.49	2.4		4.96		
Vinyl Chloride	75-01-4	62.5	0.04		0.1		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	15.7	E	46.3		
Trichlorofluoromethane	75-69-4	137.4	0.25	J	1.4		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	2		8.2		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	29.5	E	70.1		
Carbon Disulfide	75-15-0	76.14	0.08	U	0.25		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	3.4		11.8		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
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	2.9		8.55		
Carbon Tetrachloride	56-23-5	153.8	0.13		0.82		
cis-1,2-Dichloroethene	156-59-2	96.94	5.5		21.8		
Chloroform	67-66-3	119.4	0.27	J	1.32		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	0.57		1.82		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.87		3.28		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

Project : Air - TO-15

Sampling Date : 06/17/25

Field Id Number : SS-1

Analysis Date : 06/19/25

Laboratory Id Number : Q2359-01

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
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	0.55		2.39		
m/p-Xylene	179601-23-1	106.2	3		13.0		
o-Xylene	95-47-6	106.2	0.84		3.65		
Styrene	100-42-5	104.1	0.16	U	0.68		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.19	J	0.93		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.9		4.42		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	0.13	U	0.78		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.21	U	1.56		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
Naphthalene	91-20-3	128.17	0.53		2.78		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	1.1		3.88		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.14	U	0.57		

Project : Air - TO-15

Sampling Date : 06/17/25

Field Id Number : SS-1DL

Analysis Date : 06/19/25

Laboratory Id Number : Q2359-01DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	1.1	UD	5.44		
Chloromethane	74-87-3	50.49	3.5	JD	7.23		
Vinyl Chloride	75-01-4	62.5	0.25	UD	0.64		
Bromomethane	74-83-9	94.94	0.77	UD	2.99		
Chloroethane	75-00-3	64.52	1.5	UD	3.96		
Tetrahydrofuran	109-99-9	72.11	12.6	D	37.2		
Trichlorofluoromethane	75-69-4	137.4	1.7	UD	9.55		
Dichlorotetrafluoroethane	76-14-2	170.9	1.5	UD	10.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.4	UD	10.7		
tert-Butyl alcohol	75-65-0	74.12	1.6	UD	4.85		
Heptane	142-82-5	100.2	1.9	JD	7.79		
1,1-Dichloroethene	75-35-4	96.94	1.5	UD	5.95		
Acetone	67-64-1	58.08	32.5	D	77.2		
Carbon Disulfide	75-15-0	76.14	0.8	UD	2.49		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.3	UD	8.29		
Methylene Chloride	75-09-2	84.94	5.4	D	18.8		
trans-1,2-Dichloroethene	156-60-5	96.94	1.2	UD	4.76		
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	2.9	JD	8.55		
Carbon Tetrachloride	56-23-5	153.8	0.25	UD	1.57		
cis-1,2-Dichloroethene	156-59-2	96.94	5.1	D	20.2		
Chloroform	67-66-3	119.4	0.96	UD	4.69		
1,1,1-Trichloroethane	71-55-6	133.4	0.16	UD	0.87		
2,2,4-Trimethylpentane	540-84-1	114.2	1.4	UD	6.54		
Benzene	71-43-2	78.11	0.79	UD	2.52		
1,2-Dichloroethane	107-06-2	98.96	0.93	UD	3.76		
Trichloroethene	79-01-6	131.4	0.24	UD	1.29		
1,2-Dichloropropane	78-87-5	113	1.3	UD	6.01		
Bromodichloromethane	75-27-4	163.8	0.63	UD	4.22		
4-Methyl-2-Pentanone	108-10-1	100.2	0.97	UD	3.98		
Toluene	108-88-3	92.14	1.6	UD	6.03		
t-1,3-Dichloropropene	10061-02-6	111	1.5	UD	6.81		
cis-1,3-Dichloropropene	10061-01-5	111	1.1	UD	4.99		
1,1,2-Trichloroethane	79-00-5	133.4	0.81	UD	4.42		

Project : Air - TO-15

Sampling Date : 06/17/25

Field Id Number : SS-1DL

Analysis Date : 06/19/25

Laboratory Id Number : Q2359-01DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.85	UD	7.24		
1,2-Dibromoethane	106-93-4	187.9	0.85	UD	6.53		
Tetrachloroethene	127-18-4	165.8	0.15	UD	1.02		
Chlorobenzene	108-90-7	112.6	0.77	UD	3.55		
Ethyl Benzene	100-41-4	106.2	1.9	UD	8.25		
m/p-Xylene	179601-23-1	106.2	4.1	UD	17.8		
o-Xylene	95-47-6	106.2	2.1	UD	9.12		
Styrene	100-42-5	104.1	1.6	UD	6.81		
Bromoform	75-25-2	252.8	0.48	UD	4.96		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.18	UD	1.24		
2-Chlorotoluene	95-49-8	126.6	1.7	UD	8.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.8	UD	8.85		
1,2,4-Trimethylbenzene	95-63-6	120.2	1.8	UD	8.85		
1,3-Dichlorobenzene	541-73-1	147	0.54	UD	3.25		
1,4-Dichlorobenzene	106-46-7	147	1.3	UD	7.82		
1,2-Dichlorobenzene	95-50-1	147	1.3	UD	7.82		
1,2,4-Trichlorobenzene	120-82-1	181.5	2.1	UD	15.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.3	UD	13.9		
Naphthalene	91-20-3	128.17	0.13	UD	0.68		
1,3-Butadiene	106-99-0	54.09	0.51	UD	1.13		
4-Ethyltoluene	622-96-8	120.2	2.1	UD	10.3		
Hexane	110-54-3	86.17	1.6	UD	5.64		
Allyl Chloride	107-05-1	76.53	1.1	UD	3.44		
1,4-Dioxane	123-91-1	88.12	2.2	UD	7.93		
Methyl Methacrylate	80-62-6	100.117	1.4	UD	5.73		

Method	Matrix	Parameter	Instrument ID	Column ID	MDL (ppbv)	RL (ppbv)	MB Data	MB Datafile	StdevVal
TO-15	Air	1,1,1,2-Tetrachloroethane	MSVOA_L	RTX-1	0.089	0.50	0		0.028115408
TO-15	Air	1,1,1-Trichloroethane	MSVOA_L	RTX-1	0.016	0.030	0		0.005089672
TO-15	Air	1,1,2,2-Tetrachloroethane	MSVOA_L	RTX-1	0.018	0.030	0		0.005472877
TO-15	Air	1,1,2-Trichloroethane	MSVOA_L	RTX-1	0.081	0.50	0		0.02572751
TO-15	Air	1,1,2-Trichlorotrifluoroethane	MSVOA_L	RTX-1	0.14	0.50	0		0.042983939
TO-15	Air	1,1-Dichloroethane	MSVOA_L	RTX-1	0.13	0.50	0		0.040178175
TO-15	Air	1,1-Dichloroethene	MSVOA_L	RTX-1	0.15	0.50	0		0.047056197
TO-15	Air	1,2,4-Trichlorobenzene	MSVOA_L	RTX-1	0.21	0.50	0		0.064291005
TO-15	Air	1,2,4-Trimethylbenzene	MSVOA_L	RTX-1	0.18	0.50	0		0.054467115
TO-15	Air	1,2-Dibromoethane	MSVOA_L	RTX-1	0.085	0.10	0		0.026726124
TO-15	Air	1,2-Dichlorobenzene	MSVOA_L	RTX-1	0.13	0.50	0		0.040999419
TO-15	Air	1,2-Dichloroethane	MSVOA_L	RTX-1	0.093	0.50	0		0.029277002
TO-15	Air	1,2-Dichloropropane	MSVOA_L	RTX-1	0.13	0.50	0		0.039880775
TO-15	Air	1,3,5-Trimethylbenzene	MSVOA_L	RTX-1	0.18	0.50	0		0.054598099
TO-15	Air	1,3-Butadiene	MSVOA_L	RTX-1	0.051	0.50	0		0.016035675
TO-15	Air	1,3-Dichlorobenzene	MSVOA_L	RTX-1	0.054	0.50	0		0.017043362
TO-15	Air	1,4-Dichlorobenzene	MSVOA_L	RTX-1	0.13	0.50	0		0.039460649
TO-15	Air	1,4-Dioxane	MSVOA_L	RTX-1	0.22	0.50	0		0.067330033
TO-15	Air	2,2,4-Trimethylpentane	MSVOA_L	RTX-1	0.14	0.50	0		0.044131837
TO-15	Air	2-Butanone	MSVOA_L	RTX-1	0.056	0.50	0		0.017728105
TO-15	Air	2-Chlorotoluene	MSVOA_L	RTX-1	0.17	0.50	0		0.052599113
TO-15	Air	2-Hexanone	MSVOA_L	RTX-1	0.11	0.50	0		0.033523268
TO-15	Air	4-Ethyltoluene	MSVOA_L	RTX-1	0.21	0.50	0		0.066332496
TO-15	Air	4-Methyl-2-Pentanone	MSVOA_L	RTX-1	0.097	0.50	0		0.030783422
TO-15	Air	Acetone	MSVOA_L	RTX-1	0.18	0.50	0		0.055592052
TO-15	Air	Allyl Chloride	MSVOA_L	RTX-1	0.11	0.50	0		0.033380918
TO-15	Air	Benzene	MSVOA_L	RTX-1	0.079	0.50	0		0.025071327
TO-15	Air	Benzyl Chloride	MSVOA_L	RTX-1	0.089	0.50	0		0.028284271
TO-15	Air	Bromodichloromethane	MSVOA_L	RTX-1	0.063	0.50	0		0.019880596
TO-15	Air	Bromoethene	MSVOA_L	RTX-1	0.2	0.50	0		0.062678317
TO-15	Air	Bromoform	MSVOA_L	RTX-1	0.048	0.50	0		0.015118579
TO-15	Air	Bromomethane	MSVOA_L	RTX-1	0.077	0.50	0		0.024494897
TO-15	Air	Carbon Disulfide	MSVOA_L	RTX-1	0.08	0.50	0		0.02544836
TO-15	Air	Carbon Tetrachloride	MSVOA_L	RTX-1	0.025	0.030	0		0.007690439
TO-15	Air	Chlorobenzene	MSVOA_L	RTX-1	0.077	0.50	0		0.024397502
TO-15	Air	Chlorodifluoromethane	MSVOA_L	RTX-1	0.12	0.50	0		0.037859389
TO-15	Air	Chloroethane	MSVOA_L	RTX-1	0.15	0.50	0		0.045250625
TO-15	Air	Chloroform	MSVOA_L	RTX-1	0.096	0.50	0		0.030394235
TO-15	Air	Chloromethane	MSVOA_L	RTX-1	0.098	0.50	0		0.03101459
TO-15	Air	cis-1,2-Dichloroethene	MSVOA_L	RTX-1	0.099	0.50	0		0.031471832
TO-15	Air	cis-1,3-Dichloropropene	MSVOA_L	RTX-1	0.11	0.50	0		0.032071349
TO-15	Air	Cyclohexane	MSVOA_L	RTX-1	0.22	0.50	0		0.06972736
TO-15	Air	Dibromochloromethane	MSVOA_L	RTX-1	0.085	0.50	0		0.026726124
TO-15	Air	Dichlorodifluoromethane	MSVOA_L	RTX-1	0.11	0.50	0		0.033380918
TO-15	Air	Dichlorotetrafluoroethane	MSVOA_L	RTX-1	0.15	0.50	0		0.045460606
TO-15	Air	Ethanol	MSVOA_L	RTX-1	0.32	0.50	0		0.098848128
TO-15	Air	Ethyl Acetate	MSVOA_L	RTX-1	0.12	0.50	0		0.036384193
TO-15	Air	Ethyl Benzene	MSVOA_L	RTX-1	0.19	0.50	0		0.058554004
TO-15	Air	Heptane	MSVOA_L	RTX-1	0.17	0.50	0		0.051130086
TO-15	Air	Hexachloro-1,3-Butadiene	MSVOA_L	RTX-1	0.13	0.50	0		0.038297084
TO-15	Air	Hexane	MSVOA_L	RTX-1	0.16	0.50	0		0.04894117
TO-15	Air	Isopropyl Alcohol	MSVOA_L	RTX-1	0.23	0.50	0		0.070676998
TO-15	Air	Isopropylbenzene	MSVOA_L	RTX-1	0.16	0.50	0		0.048205908
TO-15	Air	m/p-Xylene	MSVOA_L	RTX-1	0.41	1.00	0		0.130091543
TO-15	Air	Methyl Methacrylate	MSVOA_L	RTX-1	0.14	0.50	0		0.044131837
TO-15	Air	Methyl tert-Butyl Ether	MSVOA_L	RTX-1	0.23	0.50	0		0.07296444
TO-15	Air	Methylene Chloride	MSVOA_L	RTX-1	0.23	0.50	0		0.07204496
TO-15	Air	Naphthalene	MSVOA_L	RTX-1	0.013	0.10	0		0.004076647
TO-15	Air	Naphthalene,2-methyl-	MSVOA_L	RTX-1	0.22	0.50	0		0.069213266
TO-15	Air	n-Butylbenzene	MSVOA_L	RTX-1	0.18	0.50	0		0.055805786
TO-15	Air	n-propylbenzene	MSVOA_L	RTX-1	0.2	0.50	0		0.06164414
TO-15	Air	o-Xylene	MSVOA_L	RTX-1	0.21	0.50	0		0.06491753
TO-15	Air	p-Isopropyltoluene	MSVOA_L	RTX-1	0.19	0.50	0		0.059561893
TO-15	Air	Propene	MSVOA_L	RTX-1	0.077	0.50	0		0.024397502
TO-15	Air	sec-Butylbenzene	MSVOA_L	RTX-1	0.2	0.50	0		0.061913919
TO-15	Air	Styrene	MSVOA_L	RTX-1	0.16	0.50	0		0.05
TO-15	Air	t-1,3-Dichloropropene	MSVOA_L	RTX-1	0.15	0.50	0		0.046496288
TO-15	Air	tert-Butyl alcohol	MSVOA_L	RTX-1	0.16	0.50	0		0.048892496
TO-15	Air	tert-Butylbenzene	MSVOA_L	RTX-1	0.22	0.50	0		0.067928534
TO-15	Air	Tetrachloroethene	MSVOA_L	RTX-1	0.015	0.030	0		0.004725816
TO-15	Air	Tetrahydrofuran	MSVOA_L	RTX-1	0.08	0.50	0		0.025166115
TO-15	Air	Toluene	MSVOA_L	RTX-1	0.16	0.50	0		0.050142654
TO-15	Air	trans-1,2-Dichloroethene	MSVOA_L	RTX-1	0.12	0.50	0		0.036968455
TO-15	Air	Trichloroethene	MSVOA_L	RTX-1	0.024	0.030	0		0.007587584
TO-15	Air	Trichlorofluoromethane	MSVOA_L	RTX-1	0.17	0.50	0		0.053452248
TO-15	Air	Vinyl Acetate	MSVOA_L	RTX-1	0.26	0.50	0		0.079671946
TO-15	Air	Vinyl Chloride	MSVOA_L	RTX-1	0.025	0.030	0		0.007955232

Datafile3	Concentration3	Adate3	Datafile4	Concentration4	Adate4	Datafile5	Concentration5
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.42	01152025T00:52:00	VL041910.D	0.4
VL041885.D	0.038	01102025T01:18:00	VL041913.D	0.033	01152025T02:53:00	VL041914.D	0.037
VL041885.D	0.044	01102025T01:18:00	VL041913.D	0.033	01152025T02:53:00	VL041914.D	0.032
VL041879.D	0.48	01092025T22:17:00	VL041909.D	0.44	01152025T00:52:00	VL041910.D	0.47
VL041879.D	0.55	01092025T22:17:00	VL041909.D	0.5	01152025T00:52:00	VL041910.D	0.47
VL041879.D	0.57	01092025T22:17:00	VL041909.D	0.5	01152025T00:52:00	VL041910.D	0.48
VL041879.D	0.58	01092025T22:17:00	VL041909.D	0.49	01152025T00:52:00	VL041910.D	0.49
VL041879.D	0.48	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.36
VL041879.D	0.47	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.39
VL041879.D	0.47	01092025T22:17:00	VL041909.D	0.46	01152025T00:52:00	VL041910.D	0.43
VL041879.D	0.53	01092025T22:17:00	VL041909.D	0.44	01152025T00:52:00	VL041910.D	0.43
VL041879.D	0.5	01092025T22:17:00	VL041909.D	0.47	01152025T00:52:00	VL041910.D	0.46
VL041879.D	0.5	01092025T22:17:00	VL041909.D	0.43	01152025T00:52:00	VL041910.D	0.42
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.34
VL041879.D	0.51	01092025T22:17:00	VL041909.D	0.5	01152025T00:52:00	VL041910.D	0.51
VL041879.D	0.48	01092025T22:17:00	VL041909.D	0.46	01152025T00:52:00	VL041910.D	0.44
VL041879.D	0.51	01092025T22:17:00	VL041909.D	0.43	01152025T00:52:00	VL041910.D	0.41
VL041879.D	0.5	01092025T22:17:00	VL041909.D	0.45	01152025T00:52:00	VL041910.D	0.47
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.39
VL041879.D	0.49	01092025T22:17:00	VL041909.D	0.44	01152025T00:52:00	VL041910.D	0.44
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.38
VL041879.D	0.39	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.36
VL041879.D	0.44	01092025T22:17:00	VL041909.D	0.33	01152025T00:52:00	VL041910.D	0.33
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.39	01152025T00:52:00	VL041910.D	0.37
VL041879.D	0.68	01092025T22:17:00	VL041909.D	0.53	01152025T00:52:00	VL041910.D	0.53
VL041879.D	0.5	01092025T22:17:00	VL041909.D	0.47	01152025T00:52:00	VL041910.D	0.5
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.42	01152025T00:52:00	VL041910.D	0.41
VL041879.D	0.28	01092025T22:17:00	VL041909.D	0.26	01152025T00:52:00	VL041910.D	0.34
VL041879.D	0.44	01092025T22:17:00	VL041909.D	0.4	01152025T00:52:00	VL041910.D	0.4
VL041879.D	0.55	01092025T22:17:00	VL041909.D	0.44	01152025T00:52:00	VL041910.D	0.52
VL041879.D	0.37	01092025T22:17:00	VL041909.D	0.33	01152025T00:52:00	VL041910.D	0.34
VL041879.D	0.53	01092025T22:17:00	VL041909.D	0.47	01152025T00:52:00	VL041910.D	0.5
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.41	01152025T00:52:00	VL041910.D	0.4
VL041885.D	0.048	01102025T01:18:00	VL041913.D	0.026	01152025T02:53:00	VL041914.D	0.033
VL041879.D	0.52	01092025T22:17:00	VL041909.D	0.45	01152025T00:52:00	VL041910.D	0.46
VL041879.D	0.51	01092025T22:17:00	VL041909.D	0.42	01152025T00:52:00	VL041910.D	0.42
VL041879.D	0.52	01092025T22:17:00	VL041909.D	0.46	01152025T00:52:00	VL041910.D	0.5
VL041879.D	0.53	01092025T22:17:00	VL041909.D	0.45	01152025T00:52:00	VL041910.D	0.46
VL041879.D	0.53	01092025T22:17:00	VL041909.D	0.52	01152025T00:52:00	VL041910.D	0.45
VL041879.D	0.49	01092025T22:17:00	VL041909.D	0.43	01152025T00:52:00	VL041910.D	0.42
VL041879.D	0.38	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.34
VL041879.D	0.5	01092025T22:17:00	VL041909.D	0.35	01152025T00:52:00	VL041910.D	0.35
VL041879.D	0.41	01092025T22:17:00	VL041909.D	0.33	01152025T00:52:00	VL041910.D	0.38
VL041879.D	0.56	01092025T22:17:00	VL041909.D	0.46	01152025T00:52:00	VL041910.D	0.5
VL041879.D	0.56	01092025T22:17:00	VL041909.D	0.46	01152025T00:52:00	VL041910.D	0.46
VL042503.D	0.611	05062025T18:39:00	VL042518.D	0.831	05072025T15:02:00	VL042519.D	0.842
VL041879.D	0.47	01092025T22:17:00	VL041909.D	0.41	01152025T00:52:00	VL041910.D	0.38
VL041879.D	0.44	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.35
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.37
VL041879.D	0.51	01092025T22:17:00	VL041909.D	0.42	01152025T00:52:00	VL041910.D	0.43
VL041879.D	0.49	01092025T22:17:00	VL041909.D	0.42	01152025T00:52:00	VL041910.D	0.38
VL041879.D	0.63	01092025T22:17:00	VL041909.D	0.5	01152025T00:52:00	VL041910.D	0.5
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.38
VL041879.D	0.92	01092025T22:17:00	VL041909.D	0.72	01152025T00:52:00	VL041910.D	0.69
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.36	01152025T00:52:00	VL041910.D	0.35
VL041879.D	0.42	01092025T22:17:00	VL041909.D	0.33	01152025T00:52:00	VL041910.D	0.52
VL041879.D	0.63	01092025T22:17:00	VL041909.D	0.54	01152025T00:52:00	VL041910.D	0.57
VL042506.D	0.04	05062025T20:13:00	VL042521.D	0.031	05072025T16:49:00	VL042522.D	0.032
VL041879.D	0.33	01092025T22:17:00	VL041909.D	0.28	01152025T00:52:00	VL041910.D	0.25
VL041879.D	0.42	01092025T22:17:00	VL041909.D	0.33	01152025T00:52:00	VL041910.D	0.34
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.36	01152025T00:52:00	VL041910.D	0.33
VL041879.D	0.47	01092025T22:17:00	VL041909.D	0.35	01152025T00:52:00	VL041910.D	0.35
VL041879.D	0.44	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.36
VL041879.D	0.52	01092025T22:17:00	VL041909.D	0.5	01152025T00:52:00	VL041910.D	0.48
VL041879.D	0.45	01092025T22:17:00	VL041909.D	0.38	01152025T00:52:00	VL041910.D	0.36
VL041879.D	0.38	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.31
VL041879.D	0.38	01092025T22:17:00	VL041909.D	0.36	01152025T00:52:00	VL041910.D	0.33
VL041879.D	0.52	01092025T22:17:00	VL041909.D	0.47	01152025T00:52:00	VL041910.D	0.41
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.36	01152025T00:52:00	VL041910.D	0.37
VL041885.D	0.034	01102025T01:18:00	VL041913.D	0.037	01152025T02:53:00	VL041914.D	0.034
VL041879.D	0.41	01092025T22:17:00	VL041909.D	0.41	01152025T00:52:00	VL041910.D	0.42
VL041879.D	0.44	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.36
VL041879.D	0.54	01092025T22:17:00	VL041909.D	0.47	01152025T00:52:00	VL041910.D	0.48
VL041885.D	0.035	01102025T01:18:00	VL041913.D	0.029	01152025T02:53:00	VL041914.D	0.033
VL041879.D	0.54	01092025T22:17:00	VL041909.D	0.45	01152025T00:52:00	VL041910.D	0.47
VL041879.D	0.56	01092025T22:17:00	VL041909.D	0.35	01152025T00:52:00	VL041910.D	0.44
VL042515.D	0.021	05072025T13:17:00	VL042516.D	0.021	05072025T13:50:00	VL042517.D	0.014



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

Adate5	Datafile6	Concentration6	Adate6	Datafile7	Concentration7	Adate7	Department
01152025T01:23:00	VL041932.D	0.41	01202025T22:30:00	VL041933.D	0.43	01202025T23:00:00	VOC
01152025T03:23:00	VL041936.D	0.028	01212025T00:31:00	VL041940.D	0.027	01212025T09:44:00	VOC
01152025T03:23:00	VL041936.D	0.034	01212025T00:31:00	VL041940.D	0.034	01212025T09:44:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.49	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.44	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.45	01202025T22:30:00	VL041933.D	0.47	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.47	01202025T22:30:00	VL041933.D	0.43	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.34	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.35	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.45	01202025T22:30:00	VL041933.D	0.4	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.45	01202025T22:30:00	VL041933.D	0.49	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.49	01202025T22:30:00	VL041933.D	0.47	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.5	01202025T22:30:00	VL041933.D	0.47	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.49	01202025T22:30:00	VL041933.D	0.52	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.45	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.42	01202025T22:30:00	VL041933.D	0.41	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.42	01202025T22:30:00	VL041933.D	0.3	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.41	01202025T22:30:00	VL041933.D	0.37	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.47	01202025T22:30:00	VL041933.D	0.46	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.36	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.35	01202025T22:30:00	VL041933.D	0.31	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.31	01202025T22:30:00	VL041933.D	0.3	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.38	01202025T22:30:00	VL041933.D	0.37	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.58	01202025T22:30:00	VL041933.D	0.54	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.43	01202025T22:30:00	VL041933.D	0.43	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.47	01202025T22:30:00	VL041933.D	0.43	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.29	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.42	01202025T22:30:00	VL041933.D	0.42	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.39	01202025T22:30:00	VL041933.D	0.41	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.34	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.47	01202025T22:30:00	VL041933.D	0.52	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.38	01202025T22:30:00	VL041933.D	0.38	01202025T23:00:00	VOC
01152025T03:23:00	VL041936.D	0.029	01212025T00:31:00	VL041940.D	0.027	01212025T09:44:00	VOC
01152025T01:23:00	VL041932.D	0.5	01202025T22:30:00	VL041933.D	0.48	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.51	01202025T22:30:00	VL041933.D	0.49	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.52	01202025T22:30:00	VL041933.D	0.49	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.47	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.5	01202025T22:30:00	VL041933.D	0.48	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.42	01202025T22:30:00	VL041933.D	0.41	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.35	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.37	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.38	01202025T22:30:00	VL041933.D	0.36	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.48	01202025T22:30:00	VL041933.D	0.51	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.45	01202025T22:30:00	VL041933.D	0.45	01202025T23:00:00	VOC
05072025T15:37:00	VL042520.D	0.766	05072025T16:13:00	VL042569.D	0.664	05212025T16:53:00	VOC
01152025T01:23:00	VL041932.D	0.39	01202025T22:30:00	VL041933.D	0.4	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.32	01202025T22:30:00	VL041933.D	0.31	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.37	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.44	01202025T22:30:00	VL041933.D	0.43	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.4	01202025T22:30:00	VL041933.D	0.36	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.46	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.36	01202025T22:30:00	VL041933.D	0.35	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.64	01202025T22:30:00	VL041933.D	0.65	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.35	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.35	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.5	01202025T22:30:00	VL041933.D	0.48	01202025T23:00:00	VOC
05072025T17:24:00	VL042523.D	0.03	05072025T17:58:00	VL042567.D	0.034	05212025T15:49:00	VOC
01152025T01:23:00	VL041932.D	0.2	01202025T22:30:00	VL041933.D	0.17	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.31	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.31	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.32	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.32	01202025T22:30:00	VL041933.D	0.32	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.5	01202025T22:30:00	VL041933.D	0.48	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.34	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.3	01202025T22:30:00	VL041933.D	0.3	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.27	01202025T22:30:00	VL041933.D	0.31	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.44	01202025T22:30:00	VL041933.D	0.38	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.3	01202025T23:00:00	VOC
01152025T03:23:00	VL041936.D	0.026	01212025T00:31:00	VL041940.D	0.03	01212025T09:44:00	VOC
01152025T01:23:00	VL041932.D	0.39	01202025T22:30:00	VL041933.D	0.41	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.34	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.44	01202025T23:00:00	VOC
01152025T03:23:00	VL041936.D	0.033	01212025T00:31:00	VL041940.D	0.03	01212025T09:44:00	VOC
01152025T01:23:00	VL041932.D	0.42	01202025T22:30:00	VL041933.D	0.41	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.37	01202025T23:00:00	VOC
05072025T14:29:00	VL042575.D	0.034	05222025T11:27:00	VL042576.D	0.032	05222025T11:59:00	VOC

AVG Concentration	Recovery	Effective Date
0.43	108	5/22/2025
0.03	114	5/22/2025
0.04	125	5/22/2025
0.47	119	5/22/2025
0.50	125	5/22/2025
0.50	125	5/22/2025
0.50	125	5/22/2025
0.40	100	5/22/2025
0.40	100	5/22/2025
0.45	112	5/22/2025
0.48	120	5/22/2025
0.49	123	5/22/2025
0.48	119	5/22/2025
0.38	95	5/22/2025
0.51	128	5/22/2025
0.46	116	5/22/2025
0.45	112	5/22/2025
0.44	110	5/22/2025
0.42	105	5/22/2025
0.46	115	5/22/2025
0.40	100	5/22/2025
0.36	91	5/22/2025
0.37	93	5/22/2025
0.40	100	5/22/2025
0.58	146	5/22/2025
0.47	118	5/22/2025
0.45	111	5/22/2025
0.30	75	5/22/2025
0.42	106	5/22/2025
0.48	119	5/22/2025
0.35	86	5/22/2025
0.50	125	5/22/2025
0.41	102	5/22/2025
0.03	113	5/22/2025
0.48	121	5/22/2025
0.47	118	5/22/2025
0.52	130	5/22/2025
0.48	121	5/22/2025
0.50	126	5/22/2025
0.44	111	5/22/2025
0.36	91	5/22/2025
0.40	101	5/22/2025
0.38	95	5/22/2025
0.50	125	5/22/2025
0.49	123	5/22/2025
0.77	191	5/22/2025
0.42	106	5/22/2025
0.38	94	5/22/2025
0.40	100	5/22/2025
0.46	115	5/22/2025
0.43	106	5/22/2025
0.53	134	5/22/2025
0.40	101	5/22/2025
0.78	194	5/22/2025
0.38	95	5/22/2025
0.40	101	5/22/2025
0.57	143	5/22/2025
0.03	86	5/22/2025
0.27	68	5/22/2025
0.37	93	5/22/2025
0.38	95	5/22/2025
0.39	97	5/22/2025
0.38	95	5/22/2025
0.50	124	5/22/2025
0.40	100	5/22/2025
0.35	88	5/22/2025
0.35	86	5/22/2025
0.45	113	5/22/2025
0.39	98	5/22/2025
0.03	113	5/22/2025
0.42	105	5/22/2025
0.39	97	5/22/2025
0.48	120	5/22/2025
0.04	121	5/22/2025
0.48	119	5/22/2025
0.42	105	5/22/2025
0.02	82	5/22/2025



QC SUMMARY

Surrogate Summary

SDG No.: Q2359

Client: Water Resource Technologies, Inc.

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2359-01	SS-1	1-Bromo-4-Fluorobenzene	10	10.8	108	65	135
Q2359-01DL	SS-1DL	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
Q2359-01DUP	SS-1DUP	1-Bromo-4-Fluorobenzene	10	10.4	104	65	135
VL0619ABL01	VL0619ABL01	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
VL0619ABS01	VL0619ABS01	1-Bromo-4-Fluorobenzene	10	10.6	106	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2359

Client: Water Resource Technologies, Inc.

Analytical Method: SWTO-15

Datafile : VL042649.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0619ABS01	Dichlorodifluoromethane	10	10.7	ppbv	107			70	130	
	Chloromethane	10	10.1	ppbv	101			70	130	
	Vinyl Chloride	10	9.30	ppbv	93			70	130	
	Bromomethane	10	9.40	ppbv	94			70	130	
	Chloroethane	10	9.70	ppbv	97			70	130	
	Tetrahydrofuran	10	10.6	ppbv	106			70	130	
	Trichlorofluoromethane	10	12.1	ppbv	121			70	130	
	1,1,2-Trichlorotrifluoroethane	10	11.9	ppbv	119			70	130	
	Dichlorotetrafluoroethane	10	10.5	ppbv	105			70	130	
	tert-Butyl Alcohol	10	9.90	ppbv	99			70	130	
	Heptane	10	9.50	ppbv	95			70	130	
	1,1-Dichloroethene	10	10.9	ppbv	109			70	130	
	Acetone	10	9.10	ppbv	91			70	130	
	Carbon disulfide	10	10.8	ppbv	108			70	130	
	Methyl tert-butyl Ether	10	11.2	ppbv	112			70	130	
	Methylene Chloride	10	9.60	ppbv	96			70	130	
	trans-1,2-Dichloroethene	10	11.0	ppbv	110			70	130	
	1,1-Dichloroethane	10	10.8	ppbv	108			70	130	
	Cyclohexane	10	9.10	ppbv	91			70	130	
	2-Butanone	10	11.7	ppbv	117			70	130	
	Carbon Tetrachloride	10	12.0	ppbv	120			70	130	
	cis-1,2-Dichloroethene	10	9.70	ppbv	97			70	130	
	Chloroform	10	10.7	ppbv	107			70	130	
	1,1,1-Trichloroethane	10	10.0	ppbv	100			70	130	
	2,2,4-Trimethylpentane	10	11.1	ppbv	111			70	130	
	Benzene	10	10.8	ppbv	108			70	130	
	1,2-Dichloroethane	10	12.6	ppbv	126			70	130	
	Trichloroethene	10	10.2	ppbv	102			70	130	
	1,2-Dichloropropane	10	10.9	ppbv	109			70	130	
	Bromodichloromethane	10	12.3	ppbv	123			70	130	
	4-Methyl-2-Pentanone	10	11.0	ppbv	110			70	130	
	Toluene	10	10.5	ppbv	105			70	130	
	t-1,3-Dichloropropene	10	10.5	ppbv	105			70	130	
	cis-1,3-Dichloropropene	10	10.6	ppbv	106			70	130	
	1,1,2-Trichloroethane	10	11.5	ppbv	115			70	130	
	Dibromochloromethane	10	11.3	ppbv	113			70	130	
	1,2-Dibromoethane	10	11.2	ppbv	112			70	130	
	Tetrachloroethene	10	9.80	ppbv	98			70	130	
	Chlorobenzene	10	11.1	ppbv	111			70	130	
	Ethyl Benzene	10	11.1	ppbv	111			70	130	
	m/p-Xylene	20	23.2	ppbv	116			70	130	
	o-Xylene	10	11.7	ppbv	117			70	130	
	Styrene	10	10.3	ppbv	103			70	130	
	Bromoform	10	11.3	ppbv	113			70	130	
	1,1,2,2-Tetrachloroethane	10	11.7	ppbv	117			70	130	
	2-Chlorotoluene	10	11.3	ppbv	113			70	130	
	1,3,5-Trimethylbenzene	10	11.5	ppbv	115			70	130	
	1,2,4-Trimethylbenzene	10	11.6	ppbv	116			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2359

Client: Water Resource Technologies, Inc.

Analytical Method: SWTO-15

Datafile : VL042649.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0619ABS01	1,3-Dichlorobenzene	10	11.4	ppbv	114			70	130	
	1,4-Dichlorobenzene	10	11.5	ppbv	115			70	130	
	1,2-Dichlorobenzene	10	11.3	ppbv	113			70	130	
	1,2,4-Trichlorobenzene	10	10.7	ppbv	107			70	130	
	Hexachloro-1,3-butadiene	10	9.80	ppbv	98			70	130	
	Naphthalene	10	11.8	ppbv	118			70	130	
	1,3-Butadiene	10	9.20	ppbv	92			70	130	
	4-Ethyltoluene	10	11.6	ppbv	116			70	130	
	Hexane	10	9.40	ppbv	94			70	130	
	Allyl Chloride	10	10.0	ppbv	100			70	130	
	1,4-Dioxane	10	10.3	ppbv	103			70	130	
	Methyl methacrylate	10	10.4	ppbv	104			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q2359-01DUP	Q2359-01
Client Id :	SS-1DUP	SS-1
DF :	1	1
Datafile :	VL042652.D	VL042651.D
Anal Date & Time :	06/19/2025 12:34	06/19/2025 11:58

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	0.9	0.9	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	0.19	0.19	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	2.9	2.9	0
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	31	29.5	5
Allyl Chloride	0	0	0
Benzene	0.58	0.57	1.7
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.13	0.13	0

Duplicate Sample Summary

Lab Sample Id :	Q2359-01DUP	Q2359-01
Client Id :	SS-1DUP	SS-1
DF :	1	1
Datafile :	VL042652.D	VL042651.D
Anal Date & Time :	06/19/2025 12:34	06/19/2025 11:58

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0.28	0.27	3.6
Chloromethane	2.6	2.4	8
cis-1,2-Dichloroethene	5.7	5.5	3.6
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.6	0.58	3.4
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0.55	0.55	0
Heptane	2.1	2	4.9
Hexachloro-1,3-Butadiene	0	0	0
Hexane	1.2	1.1	8.7
m/p-Xylene	3.1	3	3.3
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	3.6	3.4	5.7
Naphthalene	0.51	0.53	3.8
o-Xylene	0.87	0.84	3.5
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0	0	0
Tetrahydrofuran	15.5	15.7	1.3
Toluene	0.94	0.87	7.7
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.25	0.25	0
Vinyl Chloride	0.04	0.04	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0619ABL01

Lab Name: CHEMTECH

Contract: WATE03

Lab Code: CHEM Case No.: Q2359

SAS No.: Q2359 SDG NO.: Q2359

Lab File ID: VL042648.D

Lab Sample ID: VL0619ABL01

Date Analyzed: 06/19/2025

Time Analyzed: 09:42

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
VL0619ABS01	VL0619ABS01	VL042649.D	06/19/2025
SS-1DL	Q2359-01DL	VL042650.D	06/19/2025
SS-1	Q2359-01	VL042651.D	06/19/2025
SS-1DUP	Q2359-01DUP	VL042652.D	06/19/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WATE03
Lab Code: CHEM Case No.: Q2359 SAS No.: Q2359 SDG NO.: Q2359
Lab File ID: VL042578.D BFB Injection Date: 05/29/2025
Instrument ID: MSVOA_L BFB Injection Time: 08:05
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	22.4
75	30.0 - 66.0% of mass 95	53.5
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	67.2
175	4.0 - 9.0% of mass 174	5.2 (7.7) 1
176	93.0 - 101.0% of mass 174	63.6 (94.6) 1
177	5.0 - 9.0% of mass 176	4 (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	VL042579.D	05/29/2025	11:09
VSTDICCC002	VSTDICCC002	VL042580.D	05/29/2025	11:43
VSTDICCC001	VSTDICCC001	VL042581.D	05/29/2025	12:15
VSTDICCC0.5	VSTDICCC0.5	VL042582.D	05/29/2025	12:47
VSTDICCC0.1	VSTDICCC0.1	VL042583.D	05/29/2025	13:19
VSTDICCC0.03	VSTDICCC0.03	VL042584.D	05/29/2025	13:51
VSTDICCC015	VSTDICCC015	VL042585.D	05/29/2025	14:24

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WATE03
Lab Code: CHEM Case No.: Q2359 SAS No.: Q2359 SDG NO.: Q2359
Lab File ID: VL042646.D BFB Injection Date: 06/19/2025
Instrument ID: MSVOA_L BFB Injection Time: 08:10
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	22.8
75	30.0 - 66.0% of mass 95	55.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.8 (1.3) 1
174	50.0 - 120.0% of mass 95	59.4
175	4.0 - 9.0% of mass 174	4 (6.7) 1
176	93.0 - 101.0% of mass 174	57.6 (97) 1
177	5.0 - 9.0% of mass 176	3.7 (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
VSTDCCC010	VSTDCCC010	VL042647.D	06/19/2025	08:56
VL0619ABL01	VL0619ABL01	VL042648.D	06/19/2025	09:42
VL0619ABS01	VL0619ABS01	VL042649.D	06/19/2025	10:26
SS-1DL	Q2359-01DL	VL042650.D	06/19/2025	11:09
SS-1	Q2359-01	VL042651.D	06/19/2025	11:58
SS-1DUP	Q2359-01DUP	VL042652.D	06/19/2025	12:34

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WATE03
 Lab Code: CHEM Case No.: Q2359 SAS No.: Q2359 SDG NO.: Q2359
 Lab File ID: VL042647.D Date Analyzed: 06/19/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:56
 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	105774	2.80	271342	3.98	241435	8.90
UPPER LIMIT	148084	3.13	379879	4.31	338009	9.23
LOWER LIMIT	63464.4	2.47	162805	3.65	144861	8.57
EPA SAMPLE NO.						
SS-1	116867	2.80	292359	3.98	253888	8.90
SS-1DL	114585	2.81	292670	3.98	247226	8.90
SS-1DUP	116053	2.80	302999	3.98	260992	8.90
VL0619ABL01	105000	2.80	273905	3.98	233634	8.90
VL0619ABS01	107593	2.80	277113	3.98	244062	8.90

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

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

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



SAMPLE DATA

Report of Analysis

Client:	Water Resource Technologies, Inc.	Date Collected:	06/17/25
Project:	Air - TO-15	Date Received:	06/19/25
Client Sample ID:	SS-1	SDG No.:	Q2359
Lab Sample ID:	Q2359-01	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
VL042651.D	1		06/19/25 11:58	VL061925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.58	2.87		0.54	2.47	ug/m3
74-87-3	Chloromethane	2.40	4.96		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.040	0.10		0.080	0.080	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	15.7	46.3	E	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.25	1.40	J	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	2.00	8.20		0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	29.5	70.1	E	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	0.080	0.25	U	0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	3.40	11.8		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	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	2.90	8.55		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.13	0.82		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	5.50	21.8		0.40	1.98	ug/m3
67-66-3	Chloroform	0.27	1.32	J	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.57	1.82		0.26	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	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.87	3.28		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3

Report of Analysis

Client:	Water Resource Technologies, Inc.	Date Collected:	06/17/25
Project:	Air - TO-15	Date Received:	06/19/25
Client Sample ID:	SS-1	SDG No.:	Q2359
Lab Sample ID:	Q2359-01	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
VL042651.D	1		06/19/25 11:58	VL061925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	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	0.55	2.39		0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	3.00	13.0		1.78	4.34	ug/m3
95-47-6	o-Xylene	0.84	3.65		0.91	2.17	ug/m3
100-42-5	Styrene	0.16	0.68	U	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.19	0.93	J	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.90	4.42		0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.53	2.78		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	1.10	3.88		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.8			65 - 135	108%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	117000		2.803			
540-36-3	1,4-Difluorobenzene	292000		3.978			
3114-55-4	Chlorobenzene-d5	254000		8.898			

Report of Analysis

Client:	Water Resource Technologies, Inc.	Date Collected:	06/17/25
Project:	Air - TO-15	Date Received:	06/19/25
Client Sample ID:	SS-1	SDG No.:	Q2359
Lab Sample ID:	Q2359-01	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
VL042651.D	1		06/19/25 11:58	VL061925

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042651.D
 Acq On : 19 Jun 2025 11:58
 Operator : SY/MD
 Sample : Q2359-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 01:36:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

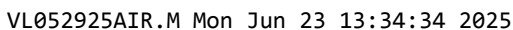
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

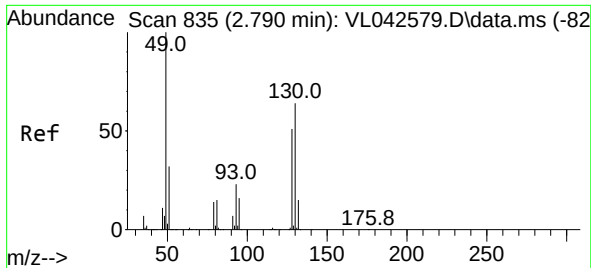
Internal Standards						
1) Bromochloromethane	2.803	49	116867	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.978	114	292359	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	253888	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	204963	10.769	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8300	0.578	ppbv	91
3) Chlorodifluoromethane	1.476	51	7828m	0.396	ppbv	
4) Chloromethane	1.534	50	13534	2.379	ppbv	99
5) Vinyl Chloride	1.583	62	207m	0.036	ppbv	
9) Propene	1.486	41	11276	1.415	ppbv	90
10) Heptane	5.007	43	44827	1.996	ppbv	95
11) Trichlorofluoromethane	1.887	101	3341	0.250	ppbv	100
13) Ethanol	1.729	45	96433	101.573	ppbv	96
15) Acetone	1.842	43	415203	29.495	ppbv	100
19) Isopropyl Alcohol	1.894	45	31874	3.788	ppbv #	1
20) Methylene Chloride	2.075	84	15655	3.370	ppbv	98
23) Vinyl Acetate	2.463	43	27669m	1.454	ppbv	
26) Hexane	2.845	57	18589	1.062	ppbv	82
29) Chloroform	2.865	83	6123	0.269	ppbv	96
31) cis-1,2-Dichloroethene	2.735	61	88276	5.513	ppbv	95
34) 2-Butanone	2.570	43	60913	2.922	ppbv	99
35) Carbon Tetrachloride	3.781	117	2514	0.130	ppbv #	81
36) Benzene	3.677	78	16370	0.569	ppbv #	93
41) Tetrahydrofuran	3.069	42	192120	15.742	ppbv	99
44) 2,2,4-Trimethylpentane	4.661	57	5187m	0.105	ppbv	
53) Toluene	6.962	91	29076	0.874	ppbv	96
58) Ethyl Benzene	9.374	91	23504	0.546	ppbv	94
59) m/p-Xylene	9.548	91	100363	2.961	ppbv	98
60) o-Xylene	9.979	91	28349	0.839	ppbv	98
64) n-propylbenzene	11.005	120	1409	0.105	ppbv	72
70) n-Butylbenzene	12.293	91	6417m	0.122	ppbv	
72) 4-Ethyltoluene	11.137	105	7640	0.181	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.215	105	6608	0.189	ppbv	91
74) 1,2,4-Trimethylbenzene	11.549	105	34784	0.899	ppbv #	64
79) Naphthalene	13.523	128	19325	0.530	ppbv	95
80) Naphthalene,2-methyl-	14.465	142	12637	0.767	ppbv #	83

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

Manual Integrations APPROVED

Quant Time: Jun 20 01:36:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration





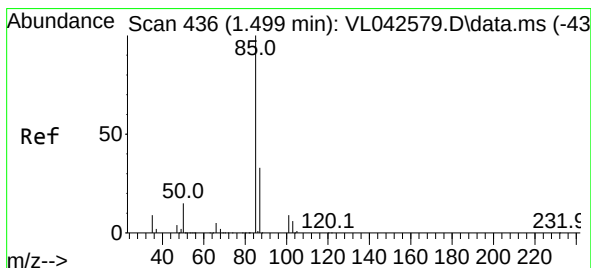
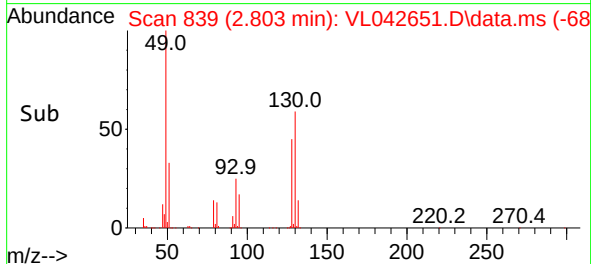
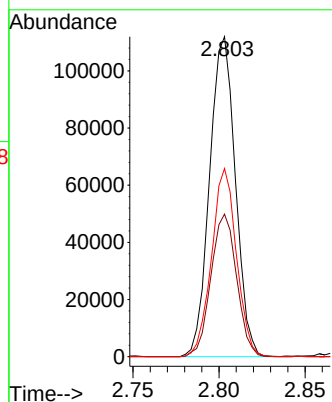
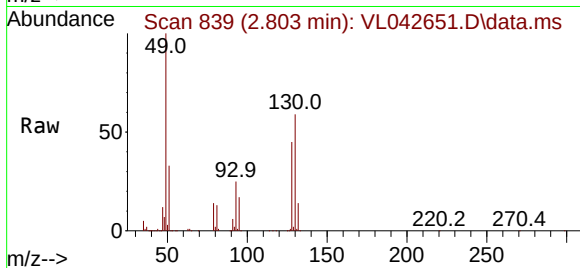
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Instrument :
MSVOA_L
ClientSampleId :
SS-1

Tgt Ion: 49 Resp: 11686
Ion Ratio Lower Upper
49 100
128 44.3 24.2 72.6
130 56.8 30.4 91.2

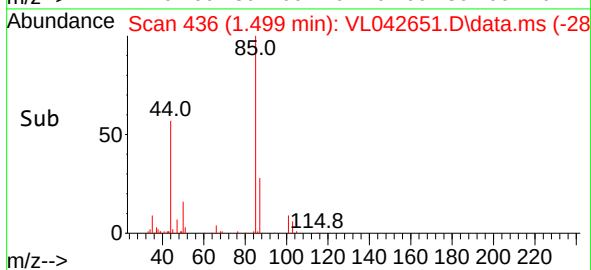
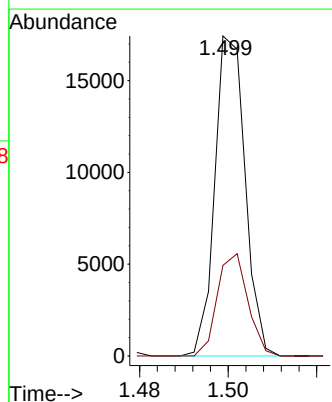
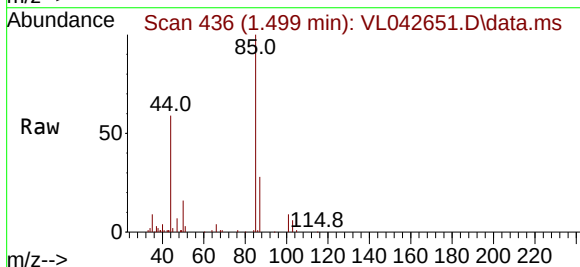
Manual Integrations
APPROVED

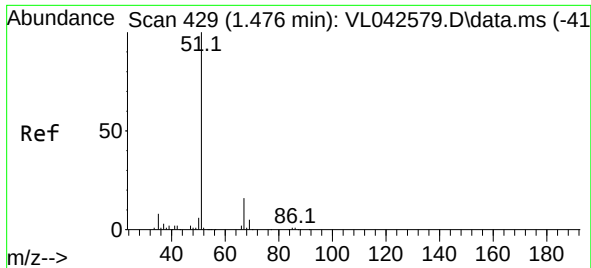
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#2
Dichlorodifluoromethane
Concen: 0.578 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion: 85 Resp: 8300
Ion Ratio Lower Upper
85 100
87 28.3 26.6 39.8





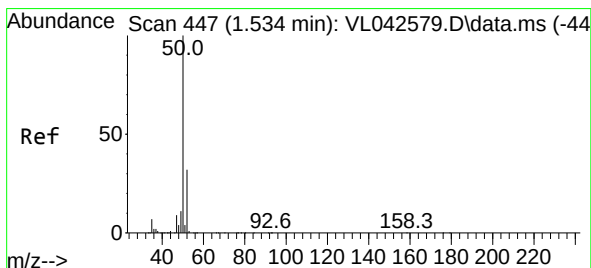
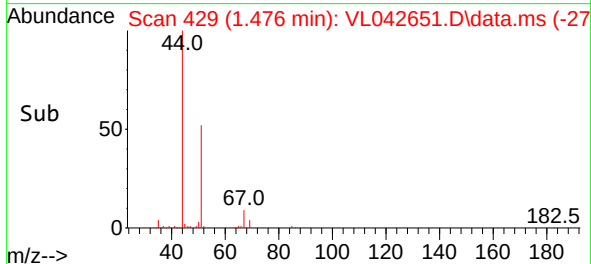
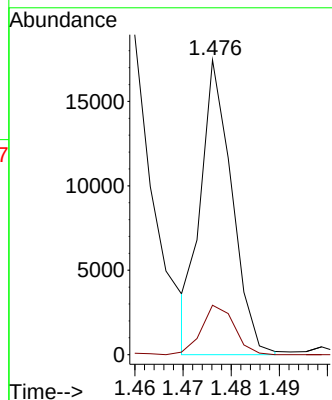
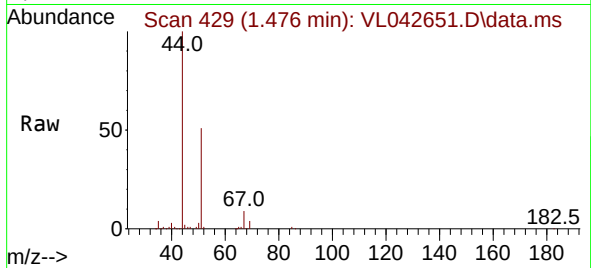
#3
Chlorodifluoromethane
Concen: 0.396 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Instrument :
MSVOA_L
ClientSampleId :
SS-1

Tgt Ion: 51 Resp: 7828
Ion Ratio Lower Upper
51 100
67 1.8 13.4 20.2

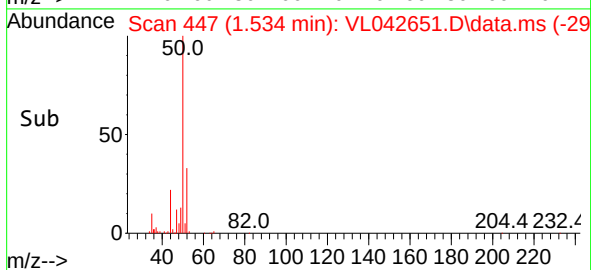
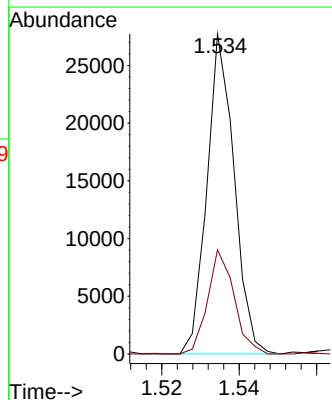
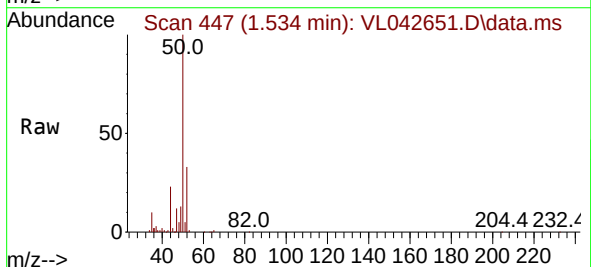
Manual Integrations
APPROVED

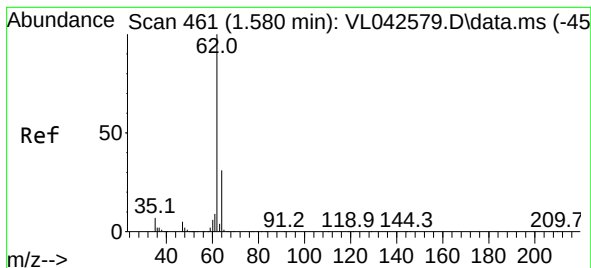
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#4
Chloromethane
Concen: 2.379 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion: 50 Resp: 13534
Ion Ratio Lower Upper
50 100
52 32.6 25.8 38.6





#5

Vinyl Chloride

Concen: 0.036 ppbv m

RT: 1.583 min Scan# 4

Delta R.T. 0.003 min

Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tgt Ion: 62 Resp: 20

Ion Ratio Lower Upper

62 100

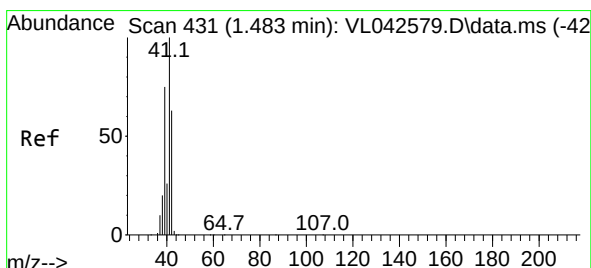
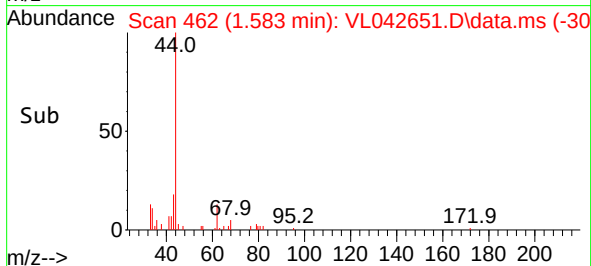
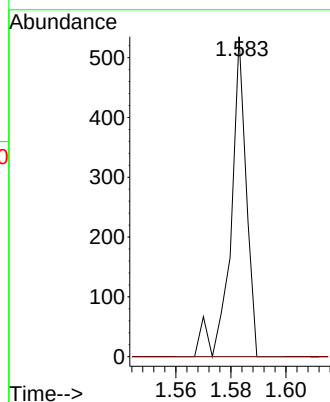
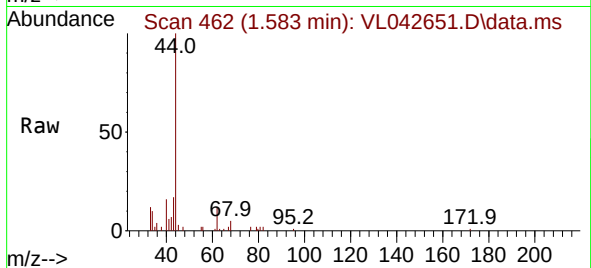
64 0.0 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#9

Propene

Concen: 1.415 ppbv

RT: 1.486 min Scan# 432

Delta R.T. 0.003 min

Lab File: VL042651.D

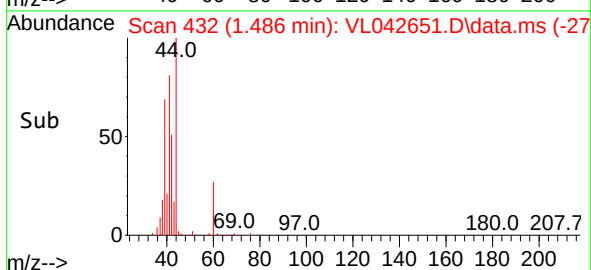
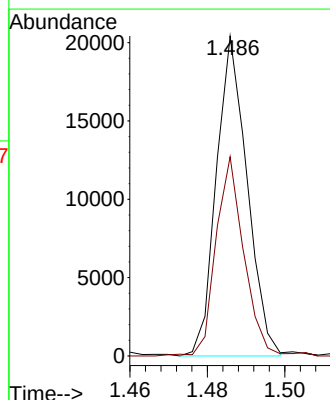
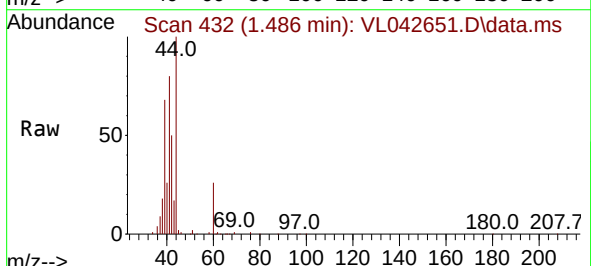
Acq: 19 Jun 2025 11:58

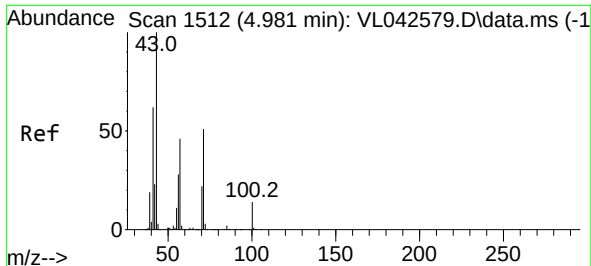
Tgt Ion: 41 Resp: 11276

Ion Ratio Lower Upper

41 100

42 58.3 53.3 79.9





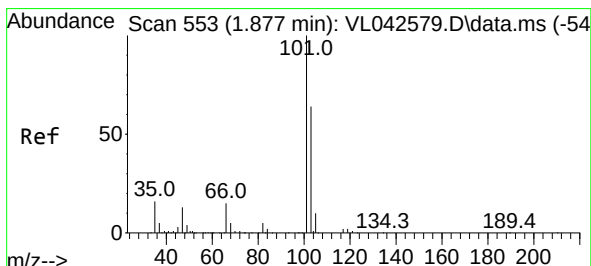
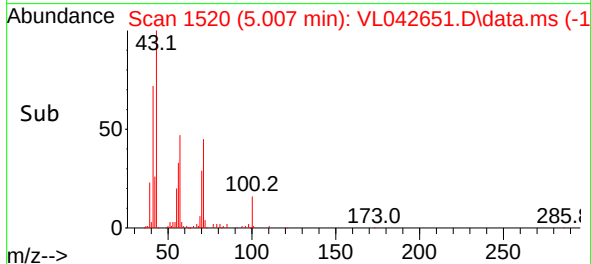
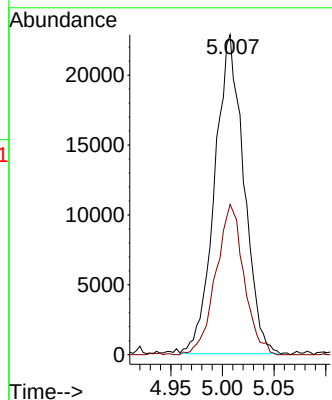
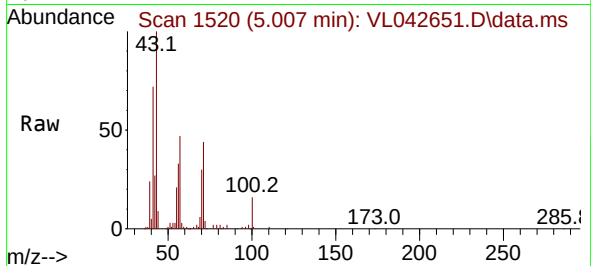
#10
 Heptane
 Concen: 1.996 ppbv
 RT: 5.007 min Scan# 11
 Delta R.T. 0.026 min
 Lab File: VL042651.D
 Acq: 19 Jun 2025 11:58

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Tgt Ion: 43 Resp: 4482
 Ion Ratio Lower Upper
 43 100
 57 45.4 38.9 58.3

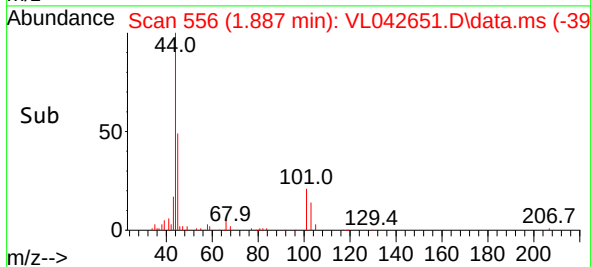
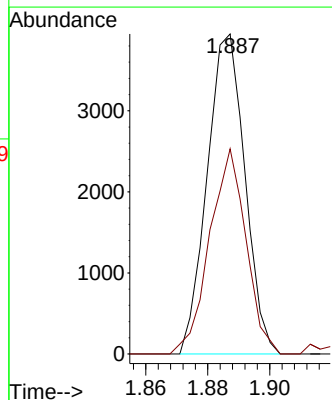
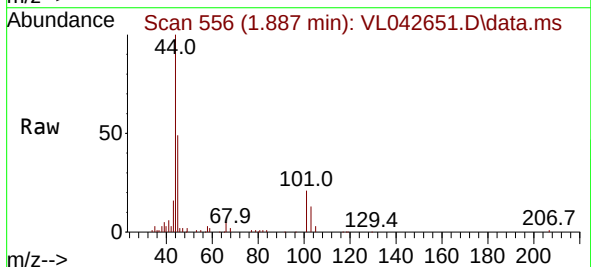
Manual Integrations
 APPROVED

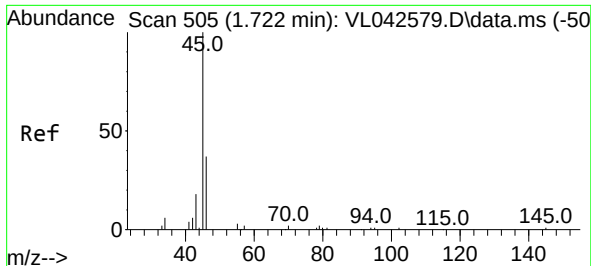
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



#11
 Trichlorofluoromethane
 Concen: 0.250 ppbv
 RT: 1.887 min Scan# 556
 Delta R.T. 0.010 min
 Lab File: VL042651.D
 Acq: 19 Jun 2025 11:58

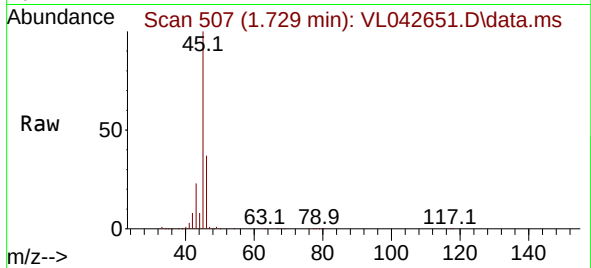
Tgt Ion:101 Resp: 3341
 Ion Ratio Lower Upper
 101 100
 103 64.1 51.5 77.3





#13
Ethanol
Concen: 101.573 ppbv
RT: 1.729 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

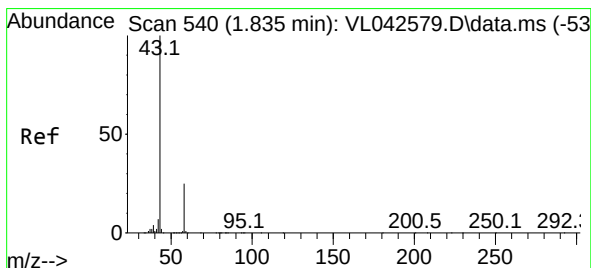
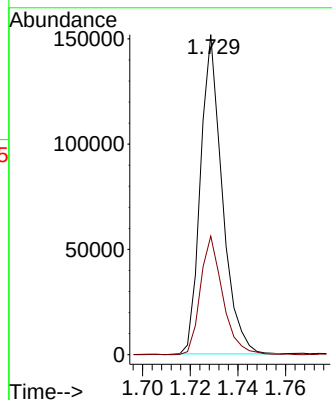
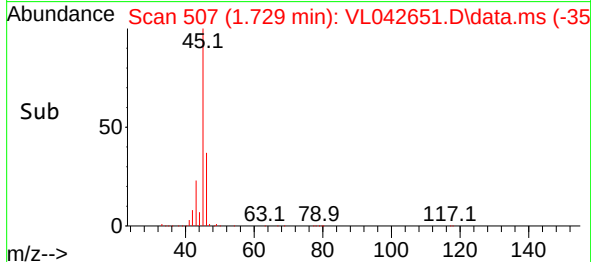
Instrument :
MSVOA_L
ClientSampleId :
SS-1



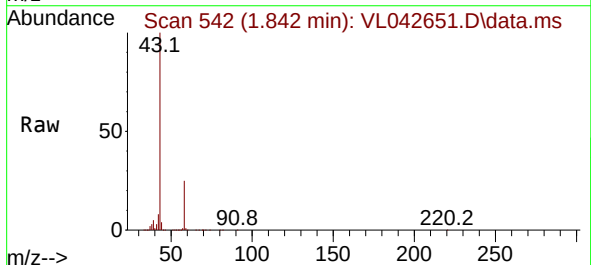
Tgt Ion: 45 Resp: 9643
Ion Ratio Lower Upper
45 100
46 38.4 14.5 58.1

Manual Integrations
APPROVED

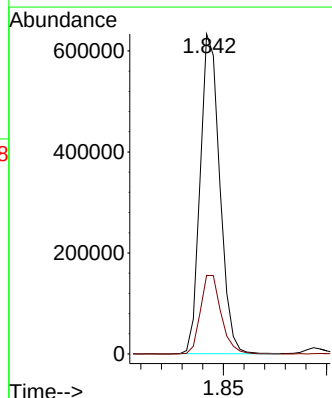
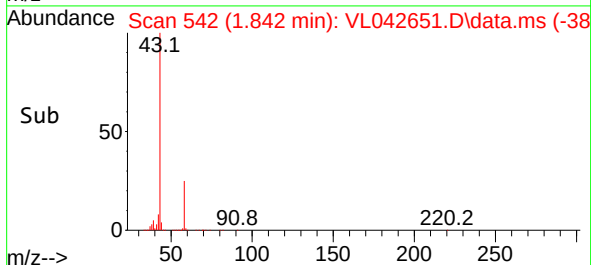
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

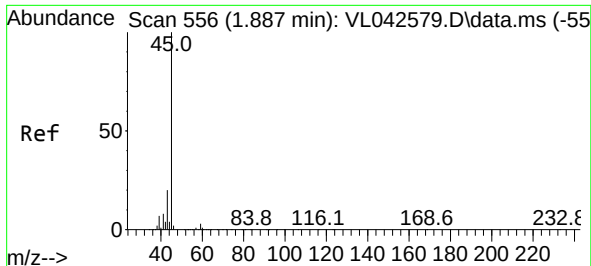


#15
Acetone
Concen: 29.495 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.006 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58



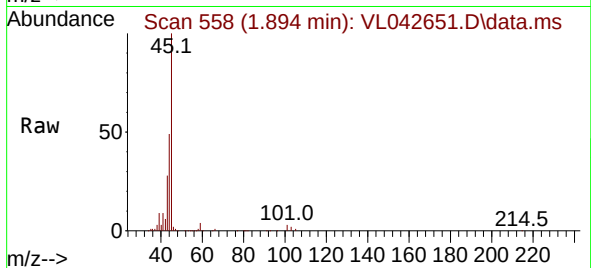
Tgt Ion: 43 Resp: 415203
Ion Ratio Lower Upper
43 100
58 26.1 21.0 31.4





#19
Isopropyl Alcohol
Concen: 3.788 ppbv
RT: 1.894 min Scan# 518
Delta R.T. 0.006 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

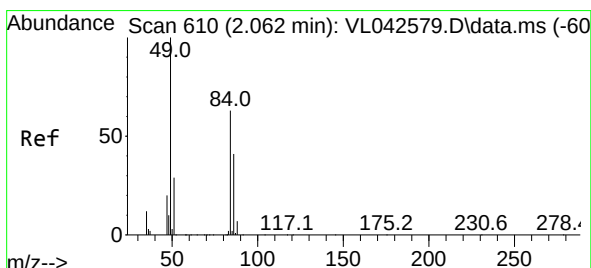
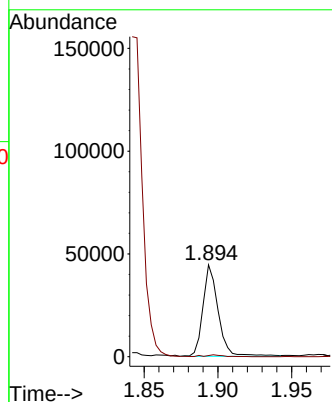
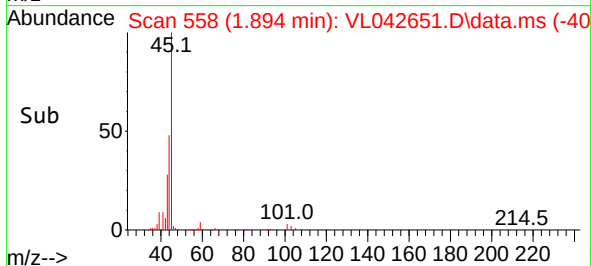
Instrument :
MSVOA_L
ClientSampleId :
SS-1



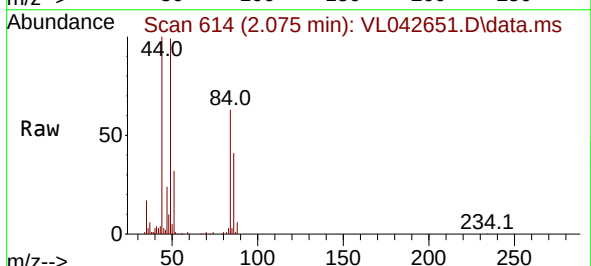
Tgt Ion: 45 Resp: 31874
Ion Ratio Lower Upper
45 100
58 339.3 29.4 44.2

Manual Integrations
APPROVED

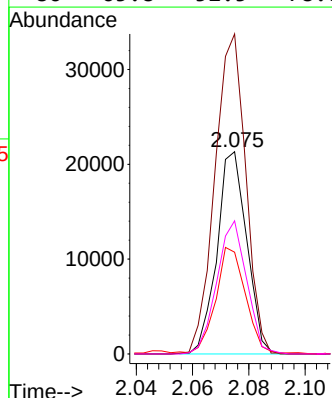
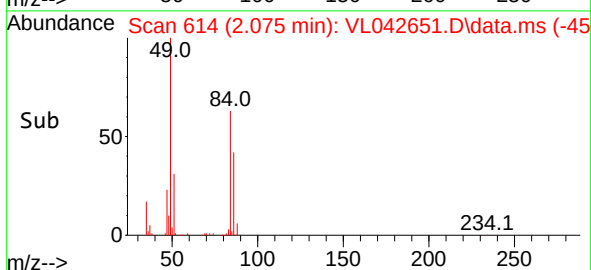
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

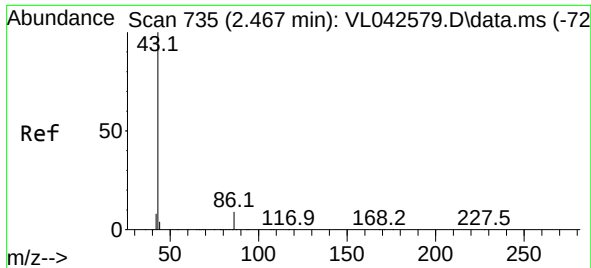


#20
Methylene Chloride
Concen: 3.370 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.013 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58



Tgt Ion: 84 Resp: 15655
Ion Ratio Lower Upper
84 100
49 157.8 128.8 193.2
51 49.8 38.6 57.8
86 65.8 52.5 78.7





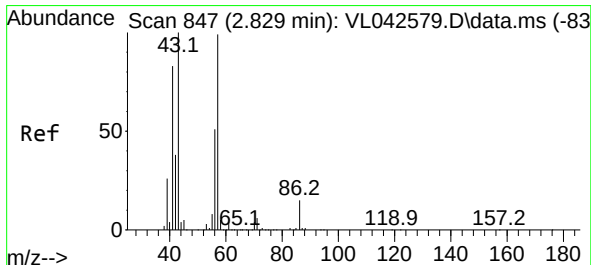
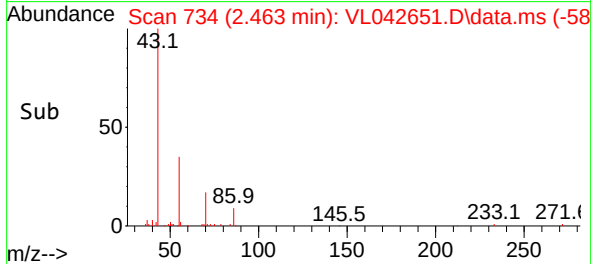
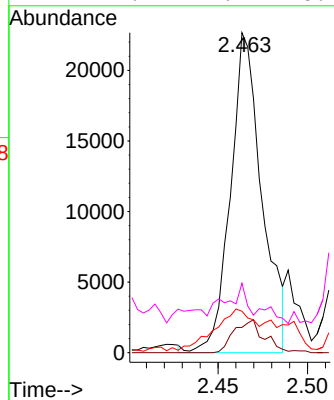
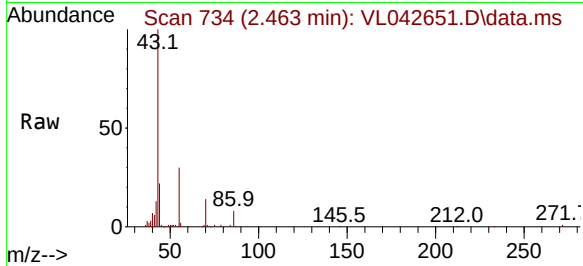
#23
 Vinyl Acetate
 Concen: 1.454 ppbv m
 RT: 2.463 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042651.D
 Acq: 19 Jun 2025 11:58

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Tgt Ion: 43 Resp: 27669
 Ion Ratio Lower Upper
 43 100
 86 7.9 6.6 9.8
 42 13.0 7.0 10.4
 44 21.7 4.2 6.2

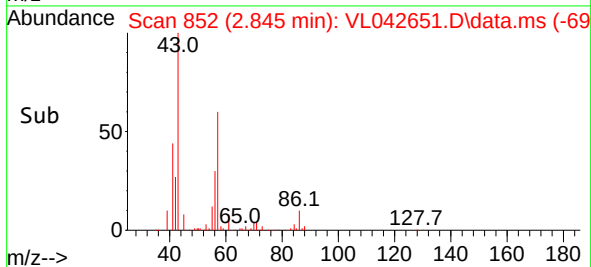
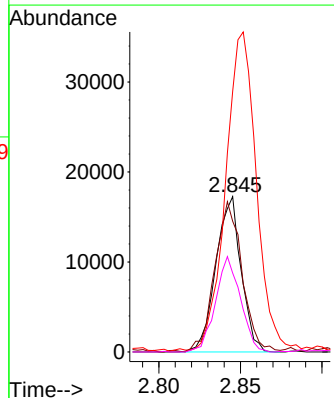
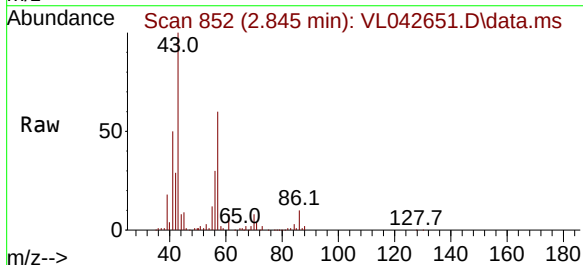
Manual Integrations
 APPROVED

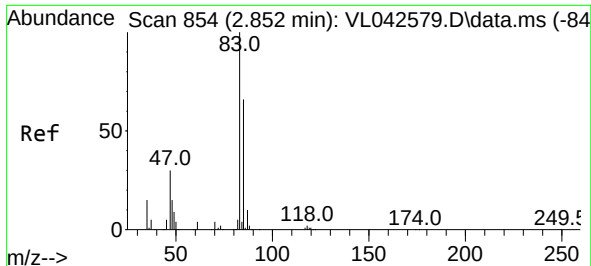
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



#26
 Hexane
 Concen: 1.062 ppbv
 RT: 2.845 min Scan# 852
 Delta R.T. 0.016 min
 Lab File: VL042651.D
 Acq: 19 Jun 2025 11:58

Tgt Ion: 57 Resp: 18589
 Ion Ratio Lower Upper
 57 100
 41 101.5 70.6 106.0
 43 260.7 181.1 271.7
 56 60.6 42.2 63.4





#29

Chloroform

Concen: 0.269 ppbv

RT: 2.865 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tgt Ion: 83 Resp: 612

Ion Ratio Lower Upper

83 100

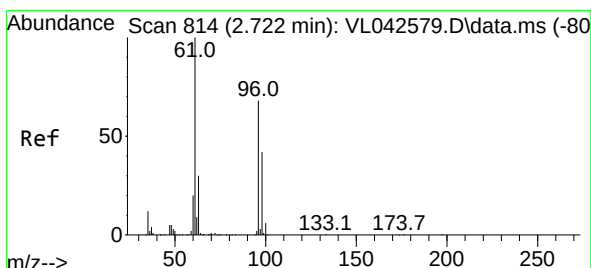
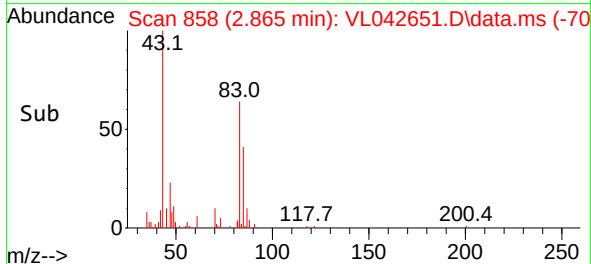
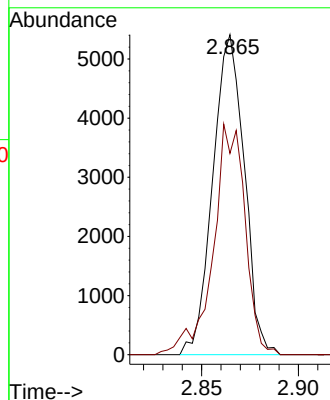
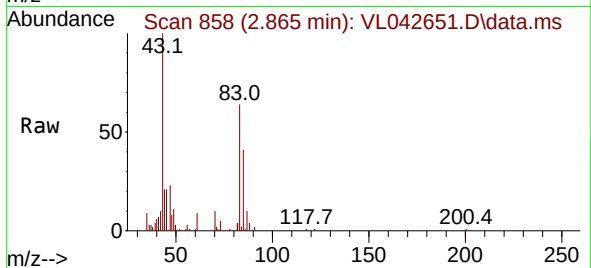
85 62.9 52.8 79.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#31

cis-1,2-Dichloroethene

Concen: 5.513 ppbv

RT: 2.735 min Scan# 818

Delta R.T. 0.013 min

Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

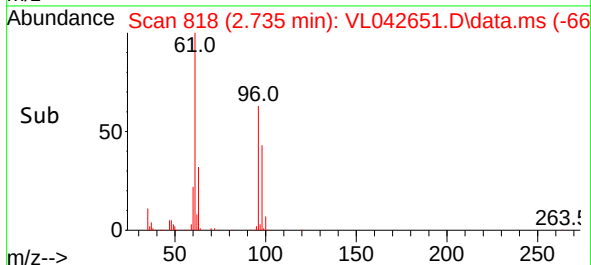
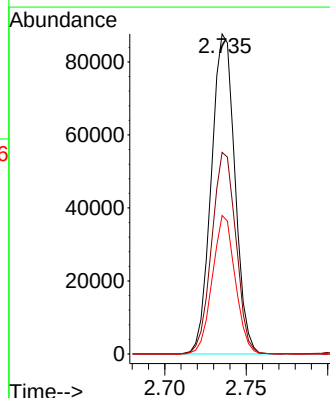
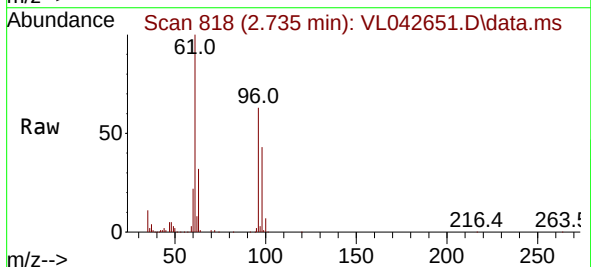
Tgt Ion: 61 Resp: 88276

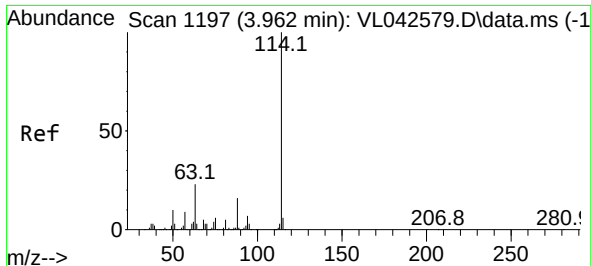
Ion Ratio Lower Upper

61 100

96 63.0 54.5 81.7

98 43.3 33.4 50.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1197

Delta R.T. 0.016 min

Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tgt Ion:114 Resp: 292359

Ion Ratio Lower Upper

114 100

63 25.6 19.0 28.6

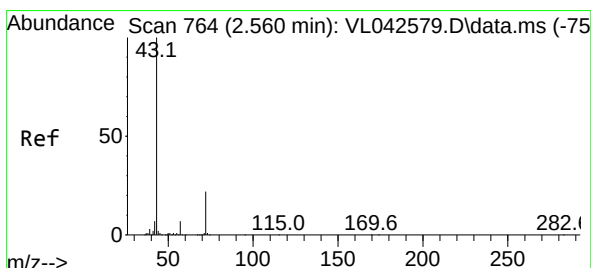
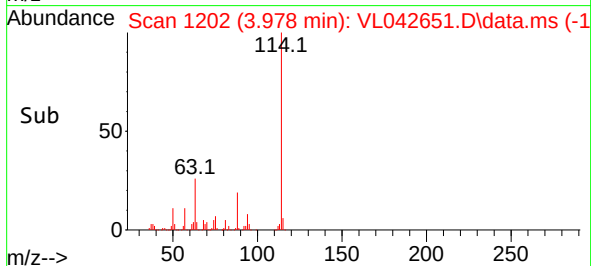
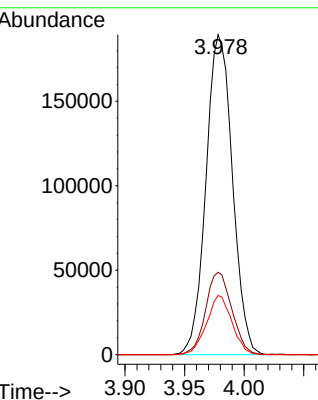
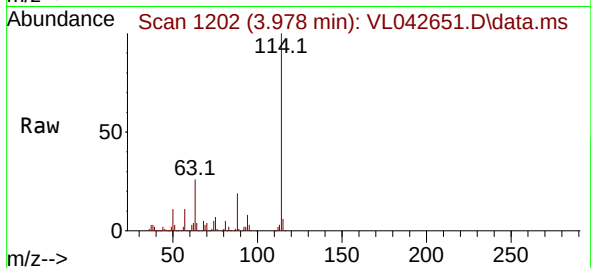
88 17.7 13.6 20.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#34

2-Butanone

Concen: 2.922 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.010 min

Lab File: VL042651.D

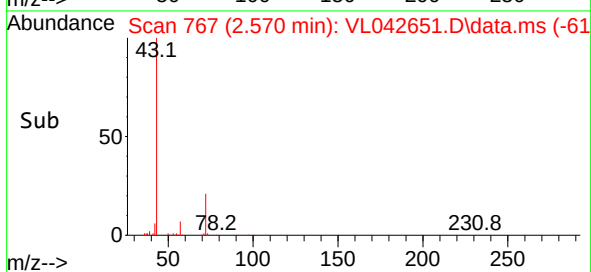
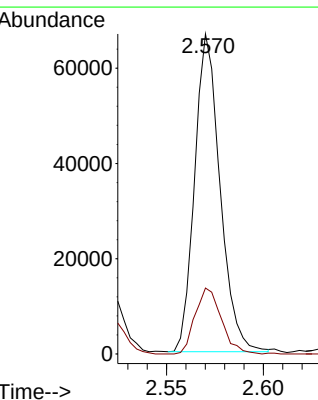
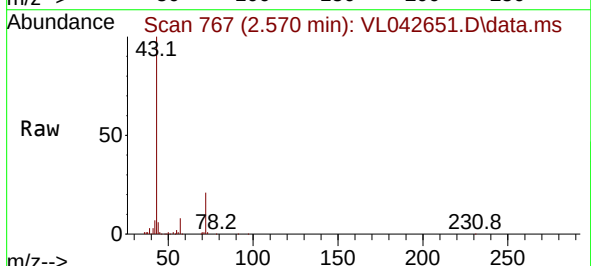
Acq: 19 Jun 2025 11:58

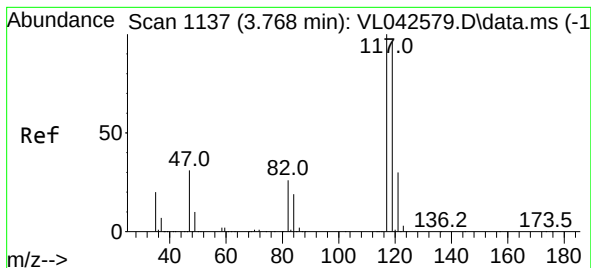
Tgt Ion: 43 Resp: 60913

Ion Ratio Lower Upper

43 100

72 21.5 17.7 26.5





#35

Carbon Tetrachloride

Concen: 0.130 ppbv

RT: 3.781 min Scan# 1137

Delta R.T. 0.013 min

Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

Instrument :

MSVOA_L

ClientSampleId :

SS-1

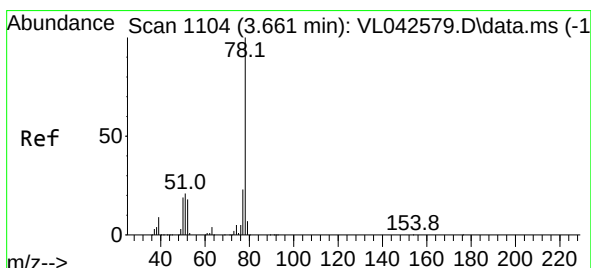
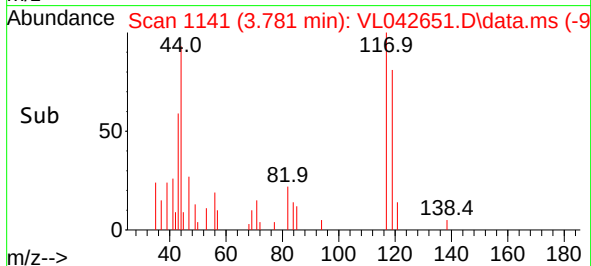
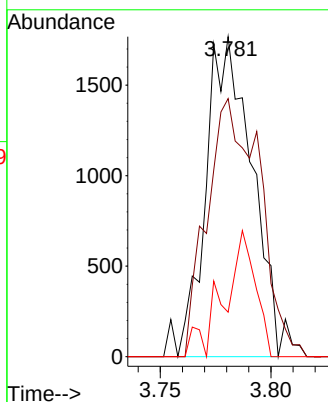
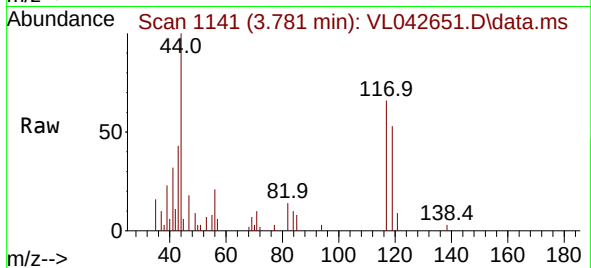
Tgt Ion: 117 Resp: 2514

Ion	Ratio	Lower	Upper
117	100		
119	80.7	76.8	115.2
121	13.9	24.3	36.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#36

Benzene

Concen: 0.569 ppbv

RT: 3.677 min Scan# 1109

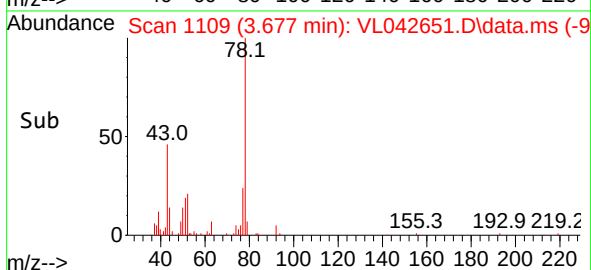
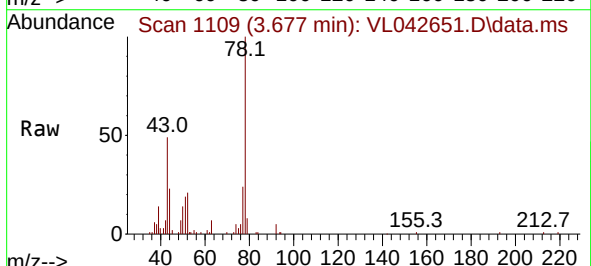
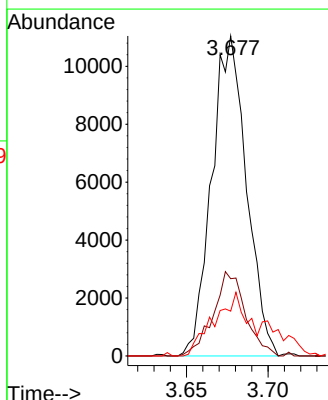
Delta R.T. 0.016 min

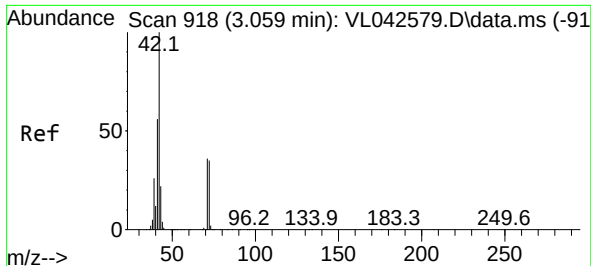
Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

Tgt Ion: 78 Resp: 16370

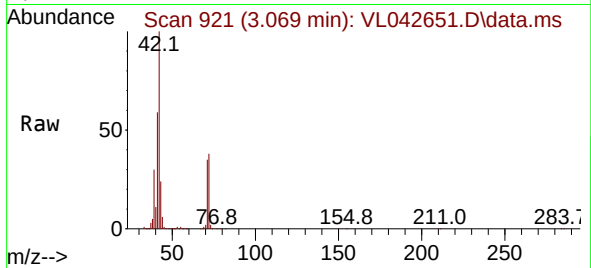
Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.2	27.2
50	13.4	15.2	22.8





#41
Tetrahydrofuran
Concen: 15.742 ppbv
RT: 3.069 min Scan# 918
Delta R.T. 0.010 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

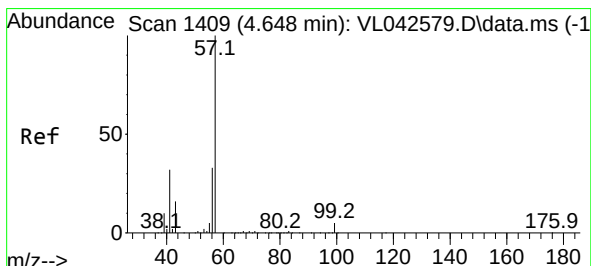
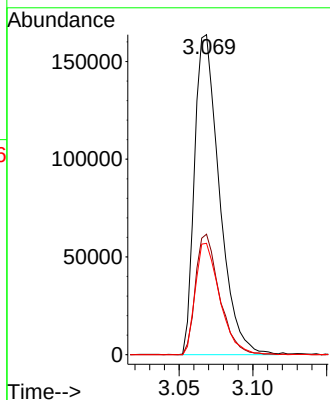
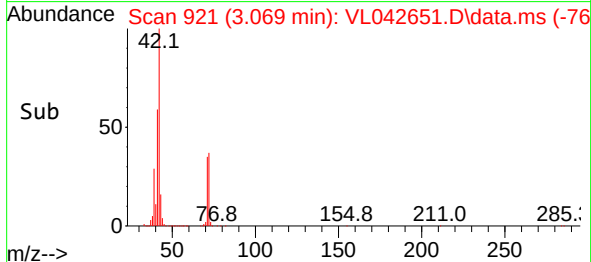
Instrument :
MSVOA_L
ClientSampleId :
SS-1



Tgt Ion: 42 Resp: 192120
Ion Ratio Lower Upper
42 100
72 36.2 28.9 43.3
71 34.3 28.5 42.7

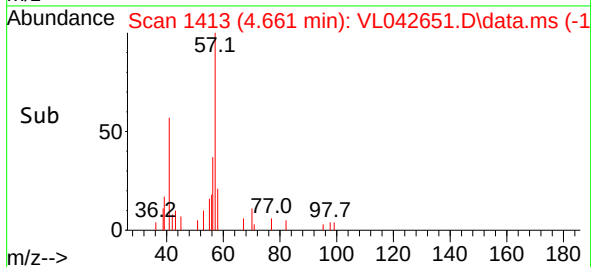
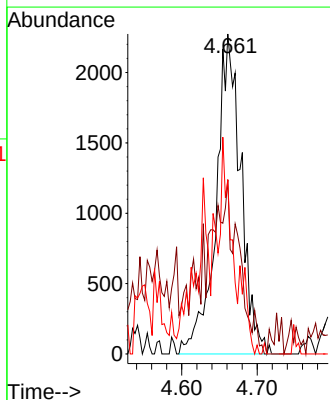
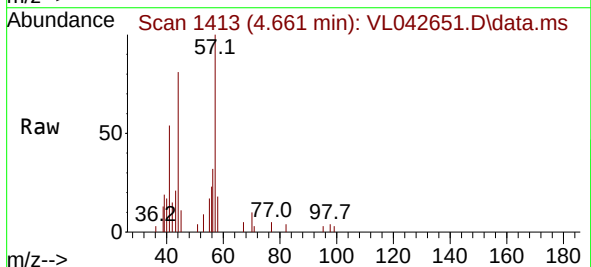
Manual Integrations
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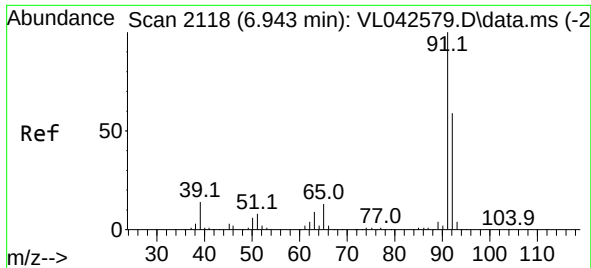
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#44
2,2,4-Trimethylpentane
Concen: 0.105 ppbv m
RT: 4.661 min Scan# 1413
Delta R.T. 0.013 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion: 57 Resp: 5187
Ion Ratio Lower Upper
57 100
41 0.0 26.1 39.1#
56 0.0 25.9 38.9#





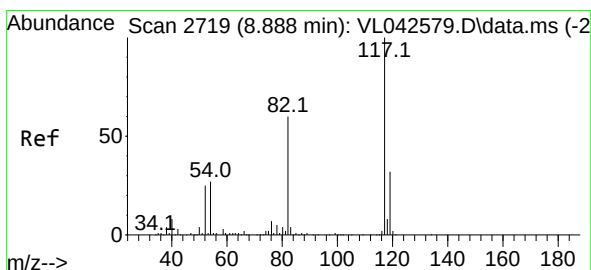
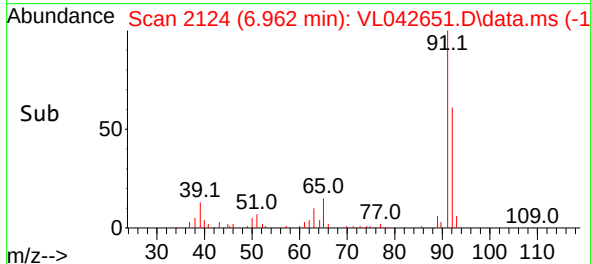
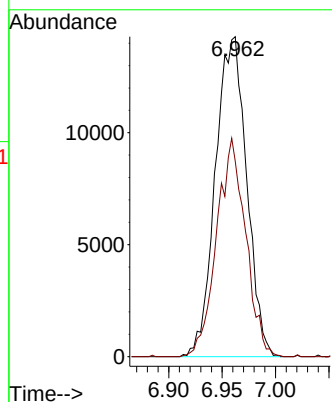
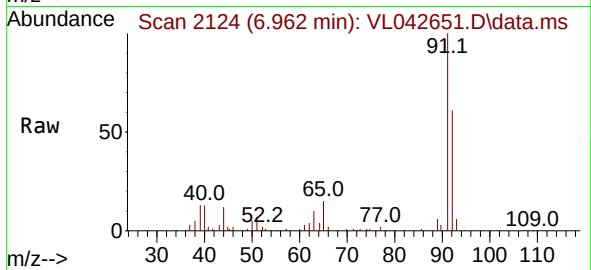
#53
Toluene
Concen: 0.874 ppbv
RT: 6.962 min Scan# 2118
Delta R.T. 0.019 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Instrument :
MSVOA_L
ClientSampleId :
SS-1

Tgt Ion: 91 Resp: 29070
Ion Ratio Lower Upper
91 100
92 63.4 48.2 72.4

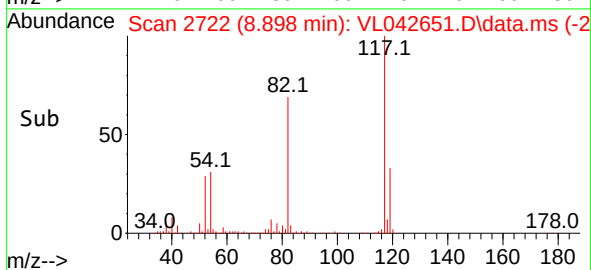
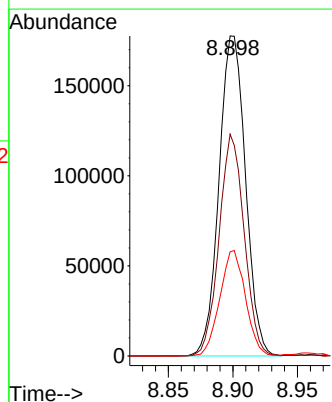
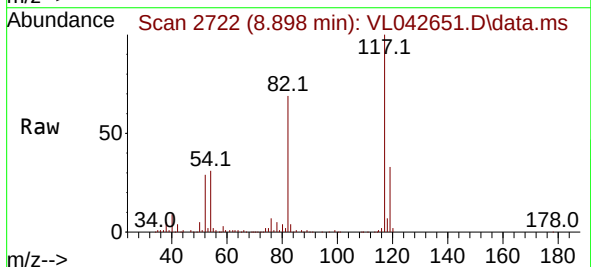
Manual Integrations
APPROVED

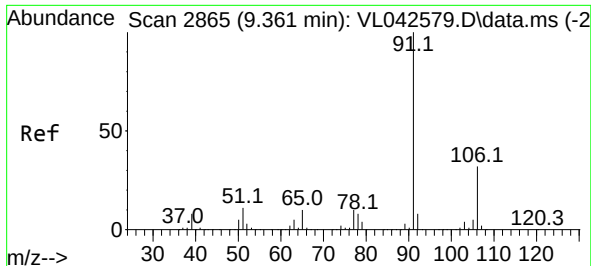
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.010 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

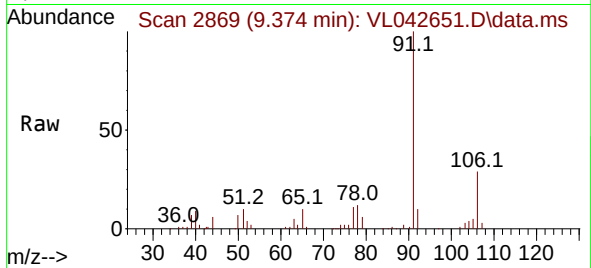
Tgt Ion:117 Resp: 253888
Ion Ratio Lower Upper
117 100
82 65.6 51.2 76.8
119 32.0 26.3 39.5





#58
Ethyl Benzene
Concen: 0.546 ppbv
RT: 9.374 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

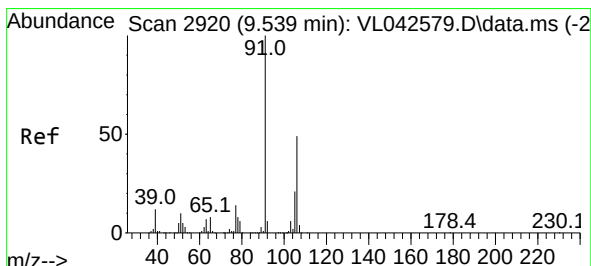
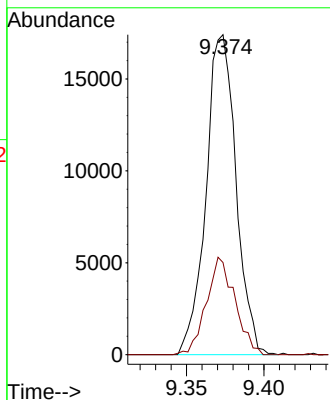
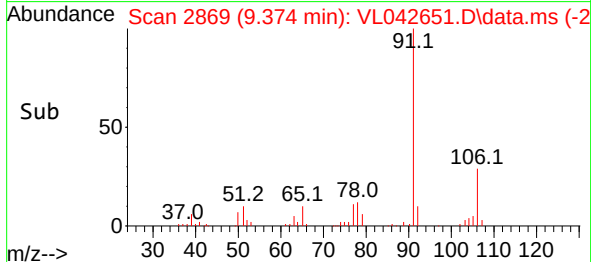
Instrument :
MSVOA_L
ClientSampleId :
SS-1



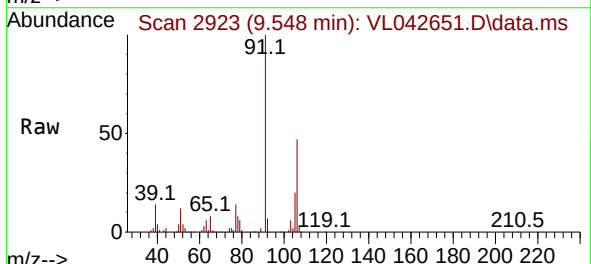
Tgt Ion: 91 Resp: 23504
Ion Ratio Lower Upper
91 100
106 28.8 25.9 38.9

Manual Integrations
APPROVED

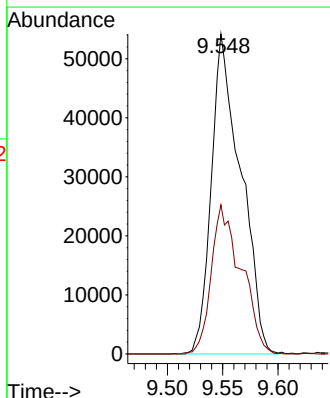
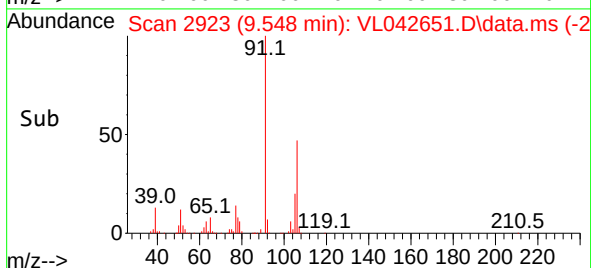
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

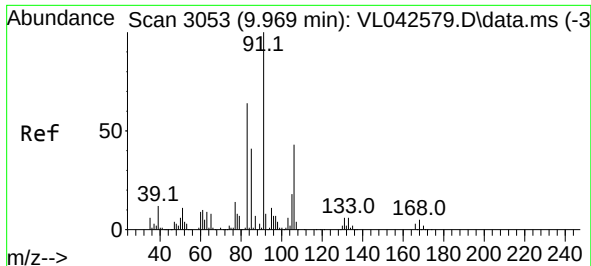


#59
m/p-Xylene
Concen: 2.961 ppbv
RT: 9.548 min Scan# 2923
Delta R.T. 0.010 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58



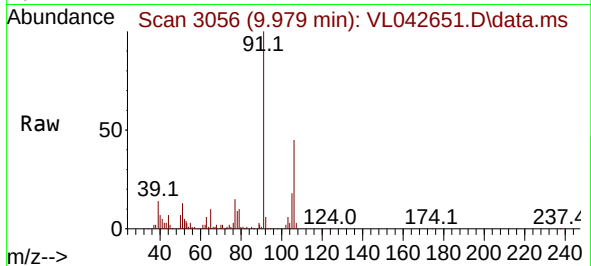
Tgt Ion: 91 Resp: 100363
Ion Ratio Lower Upper
91 100
106 47.3 38.8 58.2





#60
o-Xylene
Concen: 0.839 ppbv
RT: 9.979 min Scan# 3053
Delta R.T. 0.010 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

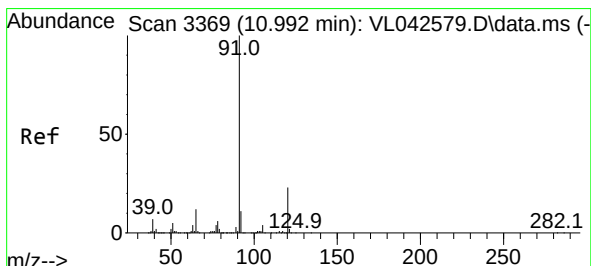
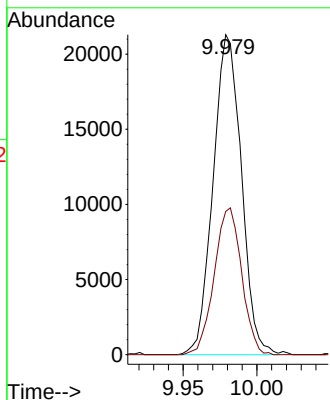
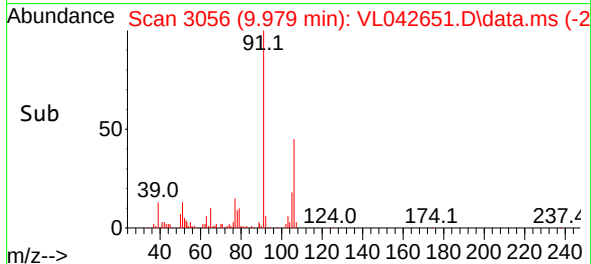
Instrument :
MSVOA_L
ClientSampleId :
SS-1



Tgt Ion: 91 Resp: 28349
Ion Ratio Lower Upper
91 100
106 44.5 22.9 68.5

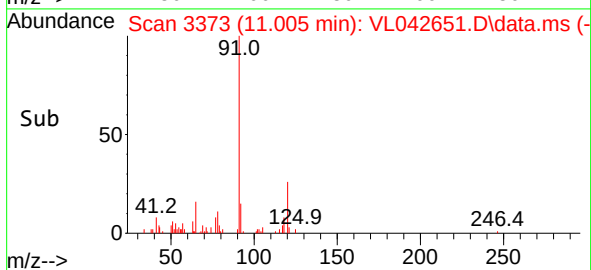
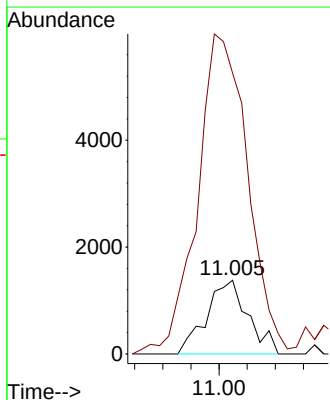
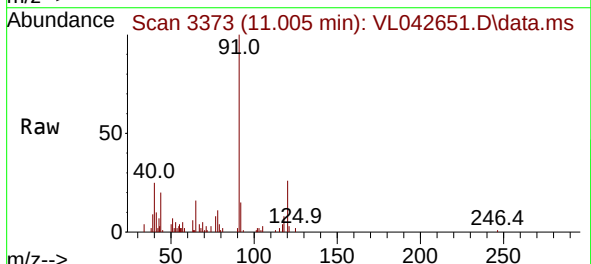
Manual Integrations
APPROVED

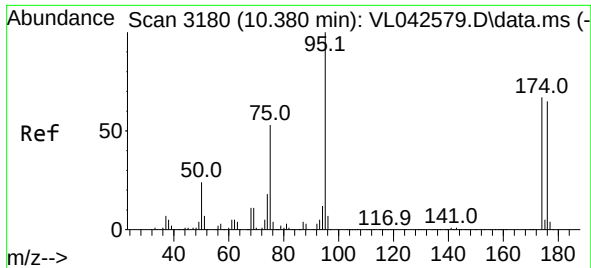
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#64
n-propylbenzene
Concen: 0.105 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.013 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

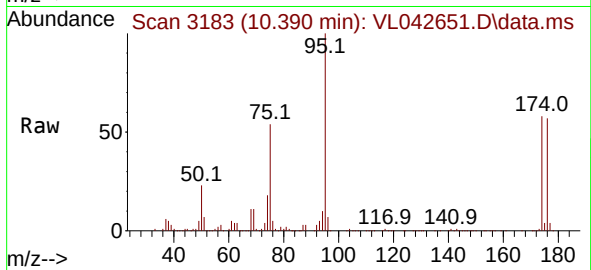
Tgt Ion:120 Resp: 1409
Ion Ratio Lower Upper
120 100
91 526.2 363.0 544.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.769 ppbv
RT: 10.390 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

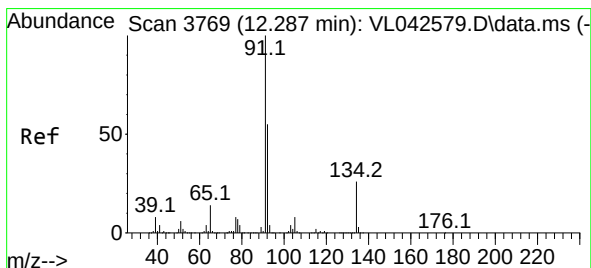
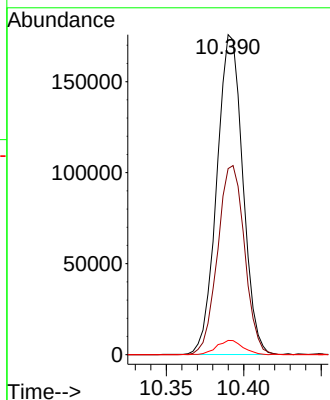
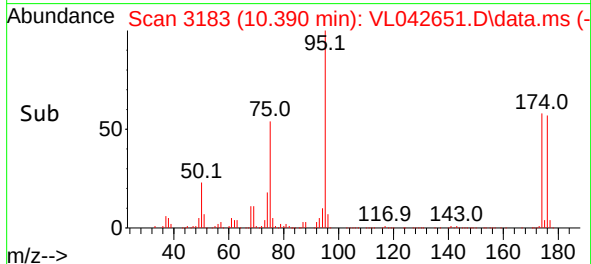
Instrument :
MSVOA_L
ClientSampleId :
SS-1



Tgt Ion: 95 Resp: 20496
Ion Ratio Lower Upper
95 100
174 61.5 53.1 79.7
175 4.6 4.2 6.2

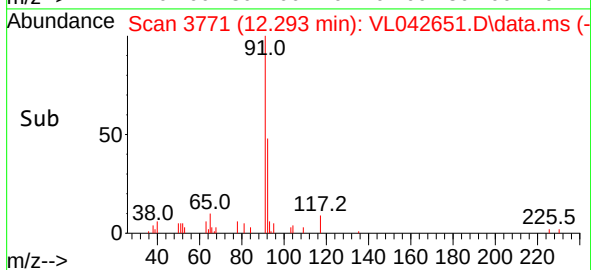
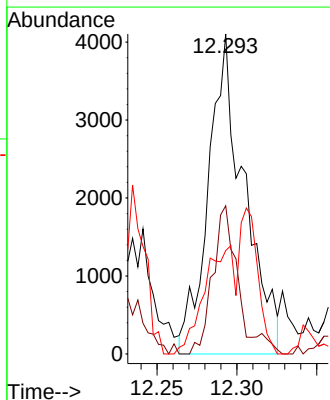
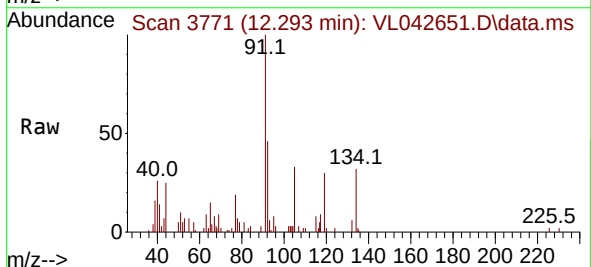
Manual Integrations
APPROVED

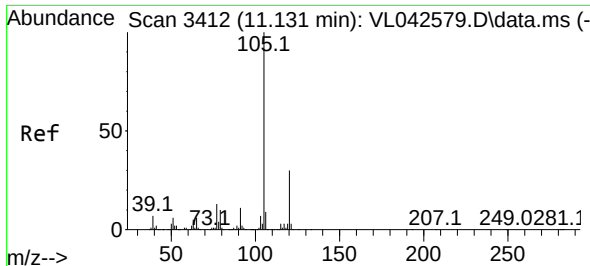
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#70
n-Butylbenzene
Concen: 0.122 ppbv m
RT: 12.293 min Scan# 3771
Delta R.T. 0.006 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion: 91 Resp: 6417
Ion Ratio Lower Upper
91 100
92 0.0 44.4 66.6#
134 51.3 20.1 30.1#





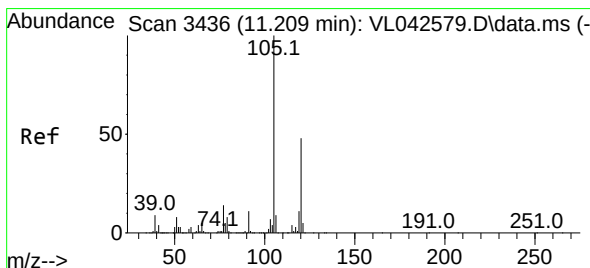
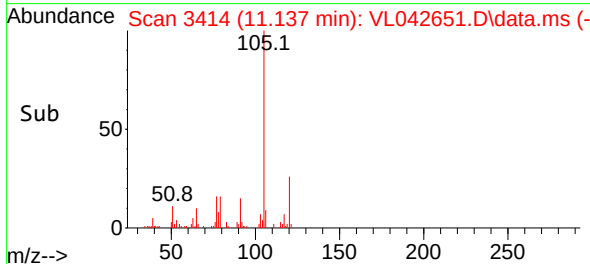
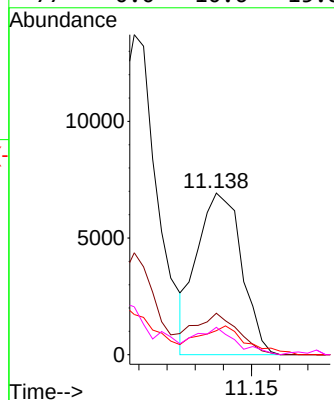
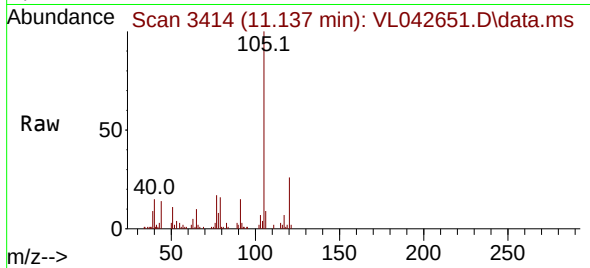
#72
4-Ethyltoluene
Concen: 0.181 ppbv
RT: 11.137 min Scan# 3412
Delta R.T. 0.006 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Instrument :
MSVOA_L
ClientSampleId :
SS-1

Tgt Ion:105	Resp:	7640
Ion Ratio	Lower	Upper
105	100	
120	0.0	24.6
91	0.0	9.6
77	0.0	10.6

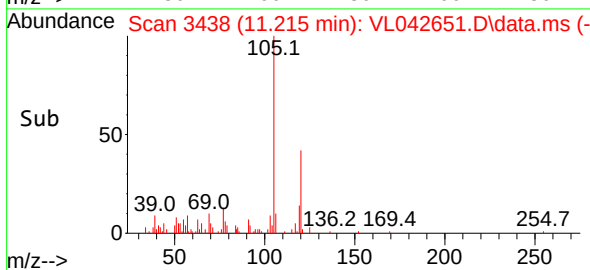
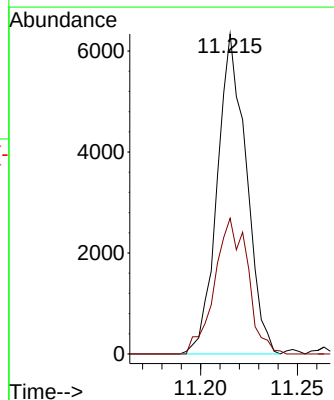
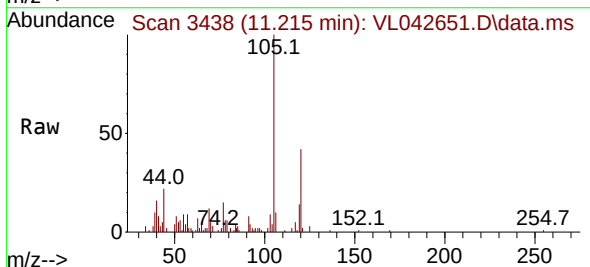
Manual Integrations
APPROVED

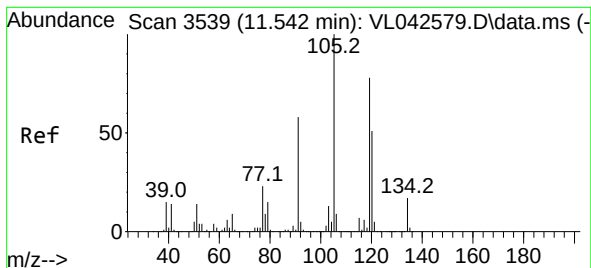
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.189 ppbv
RT: 11.215 min Scan# 3438
Delta R.T. 0.006 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion:105	Resp:	6608
Ion Ratio	Lower	Upper
105	100	
120	42.4	38.8





#74

1,2,4-Trimethylbenzene

Concen: 0.899 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.006 min

Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

Instrument :

MSVOA_L

ClientSampleId :

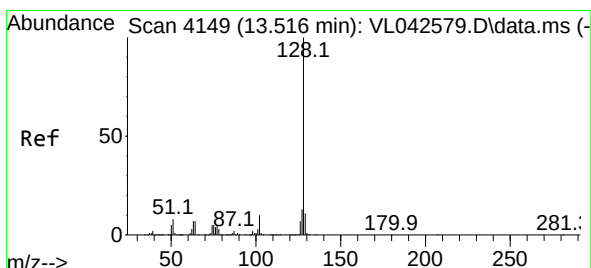
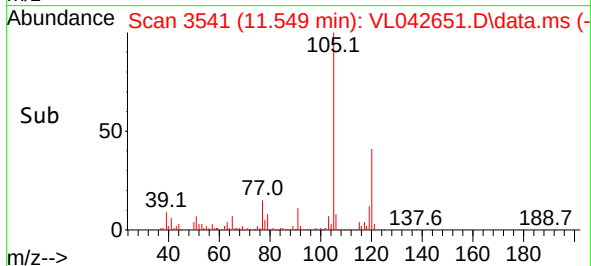
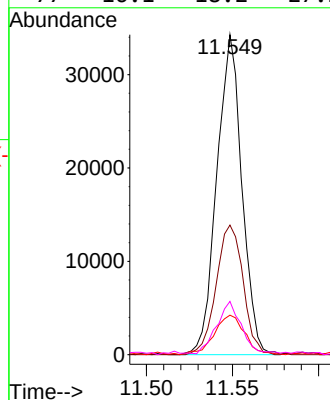
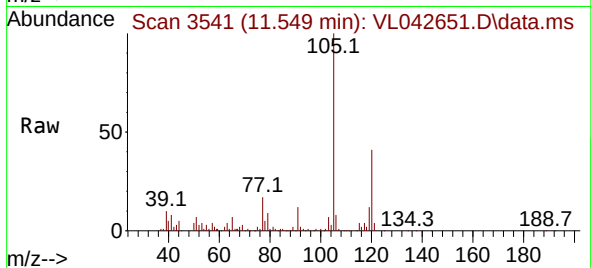
SS-1

Tgt Ion:	105	Resp:	34784
Ion Ratio	Lower	Upper	
105	100		
120	40.5	40.8	61.2
91	12.2	46.8	70.2
77	16.1	18.2	27.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#79

Naphthalene

Concen: 0.530 ppbv

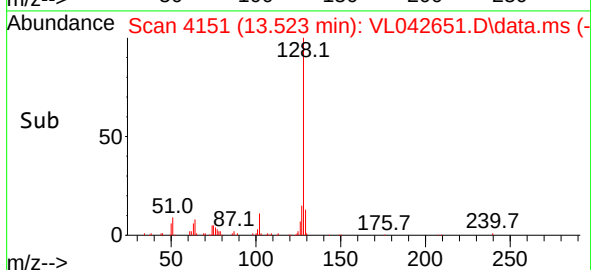
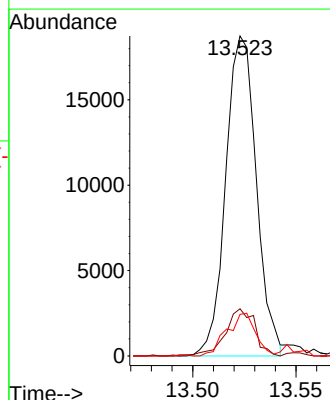
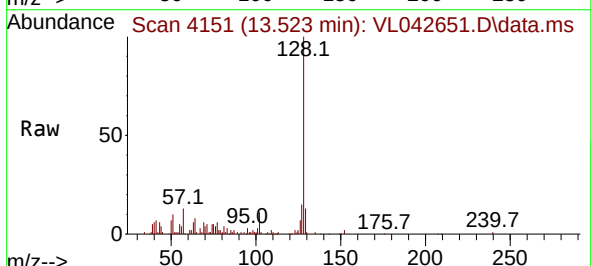
RT: 13.523 min Scan# 4151

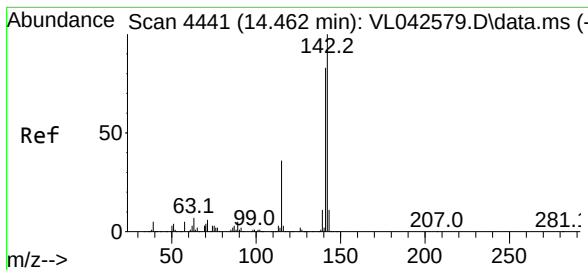
Delta R.T. 0.006 min

Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

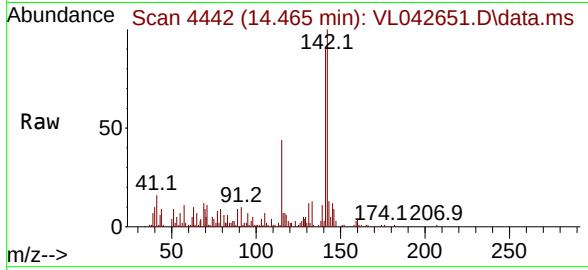
Tgt Ion:	128	Resp:	19325
Ion Ratio	Lower	Upper	
128	100		
127	14.8	10.2	15.4
129	12.6	8.8	13.2





#80
Naphthalene, 2-methyl-
Concen: 0.767 ppbv
RT: 14.465 min Scan# 44
Delta R.T. 0.003 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

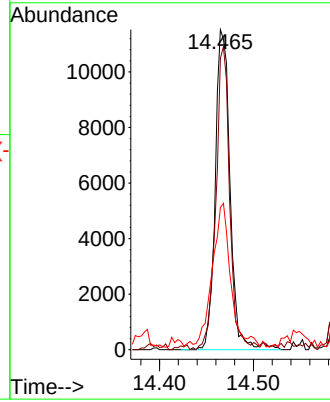
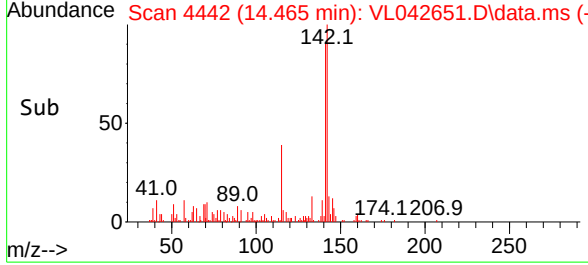
Instrument :
MSVOA_L
ClientSampleId :
SS-1



Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.5	66.2	99.4
115	57.0	28.3	42.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



Report of Analysis

Client:	Water Resource Technologies, Inc.	Date Collected:	06/17/25
Project:	Air - TO-15	Date Received:	06/19/25
Client Sample ID:	SS-1DL	SDG No.:	Q2359
Lab Sample ID:	Q2359-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042650.D	10		06/19/25 11:09	VL061925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	1.10	5.44	UD	5.44	24.7	ug/m3
74-87-3	Chloromethane	3.50	7.23	JD	2.02	10.3	ug/m3
75-01-4	Vinyl Chloride	0.25	0.64	UD	0.64	0.77	ug/m3
74-83-9	Bromomethane	0.77	2.99	UD	2.99	19.4	ug/m3
75-00-3	Chloroethane	1.50	3.96	UD	3.96	13.2	ug/m3
109-99-9	Tetrahydrofuran	12.6	37.2	D	2.36	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1.70	9.55	UD	9.55	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	10.7	UD	10.7	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	1.50	10.5	UD	10.5	35.0	ug/m3
75-65-0	tert-Butyl alcohol	1.60	4.85	UD	4.85	15.2	ug/m3
142-82-5	Heptane	1.90	7.79	JD	6.97	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1.50	5.95	UD	5.95	19.8	ug/m3
67-64-1	Acetone	32.5	77.2	D	4.28	11.9	ug/m3
75-15-0	Carbon Disulfide	0.80	2.49	UD	2.49	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	2.30	8.29	UD	8.29	18.0	ug/m3
75-09-2	Methylene Chloride	5.40	18.8	D	7.99	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1.20	4.76	UD	4.76	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	2.90	8.55	JD	1.65	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.25	1.57	UD	1.57	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	5.10	20.2	D	3.93	19.8	ug/m3
67-66-3	Chloroform	0.96	4.69	UD	4.69	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.16	0.87	UD	0.87	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.40	6.54	UD	6.54	23.4	ug/m3
71-43-2	Benzene	0.79	2.52	UD	2.52	16.0	ug/m3
107-06-2	1,2-Dichloroethane	0.93	3.76	UD	3.76	20.2	ug/m3
79-01-6	Trichloroethene	0.24	1.29	UD	1.29	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1.30	6.01	UD	6.01	23.1	ug/m3
75-27-4	Bromodichloromethane	0.63	4.22	UD	4.22	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.97	3.98	UD	3.98	20.5	ug/m3
108-88-3	Toluene	1.60	6.03	UD	6.03	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	1.50	6.81	UD	6.81	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1.10	4.99	UD	4.99	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	0.81	4.42	UD	4.42	27.3	ug/m3

Report of Analysis

Client:	Water Resource Technologies, Inc.	Date Collected:	06/17/25
Project:	Air - TO-15	Date Received:	06/19/25
Client Sample ID:	SS-1DL	SDG No.:	Q2359
Lab Sample ID:	Q2359-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042650.D	10		06/19/25 11:09	VL061925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.85	7.24	UD	7.24	42.6	ug/m3
106-93-4	1,2-Dibromoethane	0.85	6.53	UD	6.53	7.69	ug/m3
127-18-4	Tetrachloroethene	0.15	1.02	UD	1.02	2.03	ug/m3
108-90-7	Chlorobenzene	0.77	3.55	UD	3.55	23.0	ug/m3
100-41-4	Ethyl Benzene	1.90	8.25	UD	8.25	21.7	ug/m3
179601-23-1	m/p-Xylene	4.10	17.8	UD	17.8	43.4	ug/m3
95-47-6	o-Xylene	2.10	9.12	UD	9.12	21.7	ug/m3
100-42-5	Styrene	1.60	6.81	UD	6.81	21.3	ug/m3
75-25-2	Bromoform	0.48	4.96	UD	4.96	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.18	1.24	UD	1.24	2.06	ug/m3
95-49-8	2-Chlorotoluene	1.70	8.80	UD	8.80	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.80	8.85	UD	8.85	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1.80	8.85	UD	8.85	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	0.54	3.25	UD	3.25	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1.30	7.82	UD	7.82	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1.30	7.82	UD	7.82	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	2.10	15.6	UD	15.6	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1.30	13.9	UD	13.9	53.3	ug/m3
106-99-0	1,3-Butadiene	0.51	1.13	UD	1.13	11.1	ug/m3
91-20-3	Naphthalene	0.13	0.68	UD	0.68	5.24	ug/m3
622-96-8	4-Ethyltoluene	2.10	10.3	UD	10.3	24.6	ug/m3
110-54-3	Hexane	1.60	5.64	UD	5.64	17.6	ug/m3
107-05-1	Allyl Chloride	1.10	3.44	UD	3.44	15.7	ug/m3
123-91-1	1,4-Dioxane	2.20	7.93	UD	7.93	18.0	ug/m3
80-62-6	Methyl Methacrylate	1.40	5.73	UD	5.73	20.5	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	115000		2.806			
540-36-3	1,4-Difluorobenzene	293000		3.981			
3114-55-4	Chlorobenzene-d5	247000		8.904			

Report of Analysis

Client:	Water Resource Technologies, Inc.	Date Collected:	06/17/25
Project:	Air - TO-15	Date Received:	06/19/25
Client Sample ID:	SS-1DL	SDG No.:	Q2359
Lab Sample ID:	Q2359-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042650.D	10		06/19/25 11:09	VL061925

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042650.D
 Acq On : 19 Jun 2025 11:09
 Operator : SY/MD
 Sample : Q2359-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 01:35:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.806	49	114585	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	292670	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.904	117	247226	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	187754	10.131	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.300%
Target Compounds						
4) Chloromethane	1.534	50	1963m	0.352	ppbv	Qvalue
10) Heptane	5.007	43	4115m	0.187	ppbv	
13) Ethanol	1.732	45	10418	11.192	ppbv #	39
15) Acetone	1.845	43	44863	3.250	ppbv	100
20) Methylene Chloride	2.078	84	2468	0.542	ppbv	93
26) Hexane	2.848	57	2062	0.120	ppbv #	91
31) cis-1,2-Dichloroethene	2.738	61	7959	0.507	ppbv	93
34) 2-Butanone	2.576	43	6066	0.291	ppbv	92
41) Tetrahydrofuran	3.078	42	15426	1.263	ppbv	98
59) m/p-Xylene	9.551	91	6460m	0.196	ppbv	

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

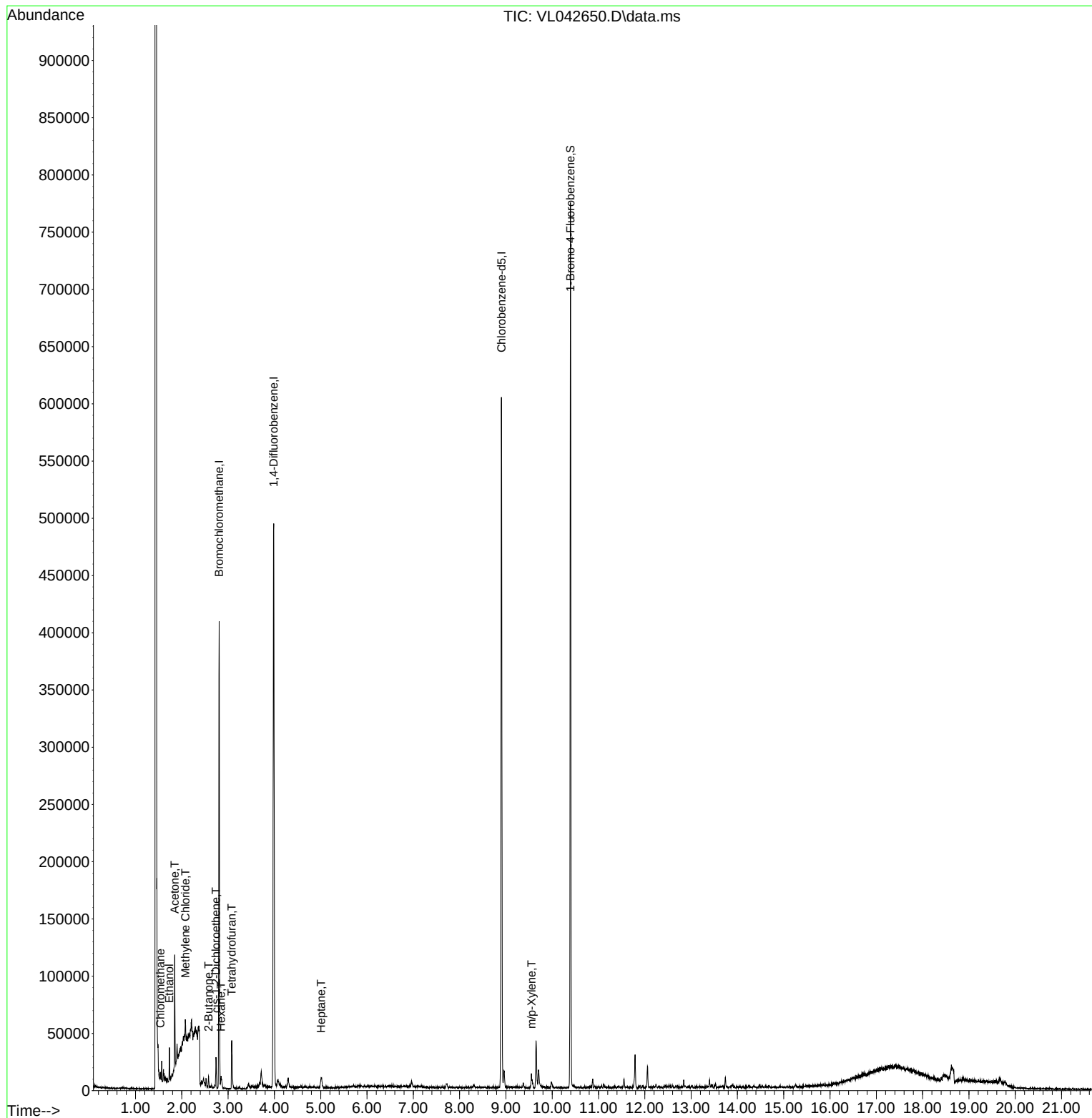
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
Data File : VL042650.D
Acq On : 19 Jun 2025 11:09
Operator : SY/MD
Sample : Q2359-01DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

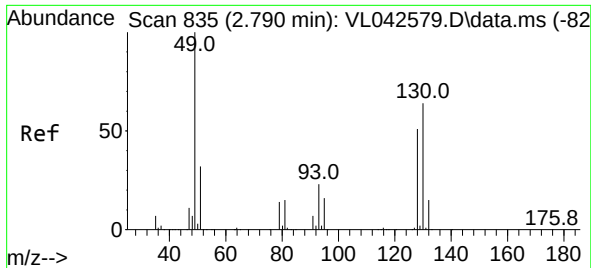
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

Quant Time: Jun 20 01:35:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

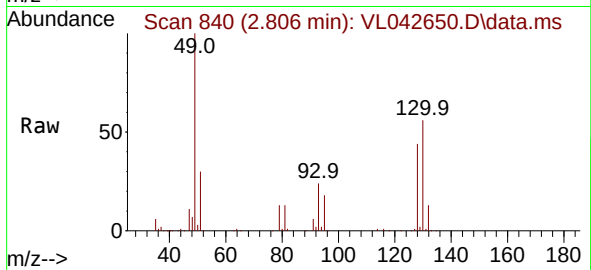
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.806 min Scan# 840
Delta R.T. 0.016 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

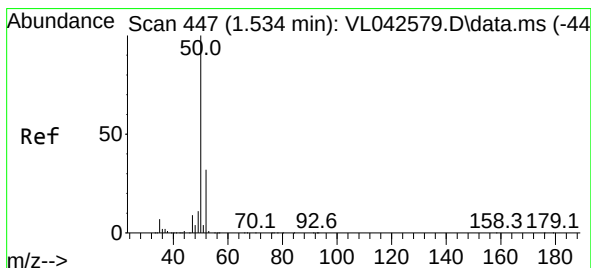
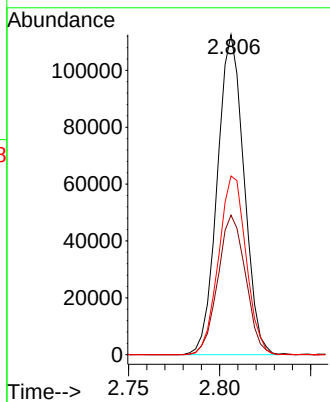
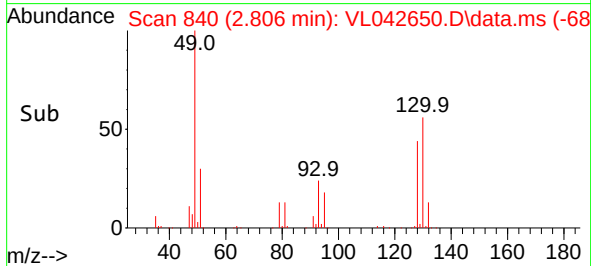
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL



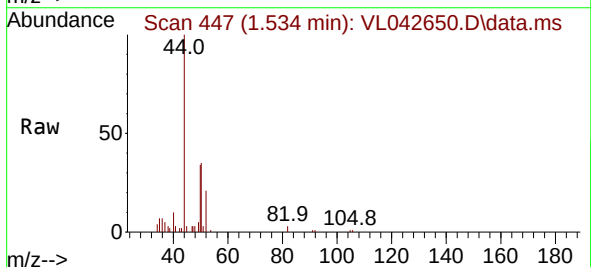
Tgt Ion: 49 Resp: 11458
Ion Ratio Lower Upper
49 100
128 45.2 24.2 72.6
130 57.6 30.4 91.2

Manual Integrations
APPROVED

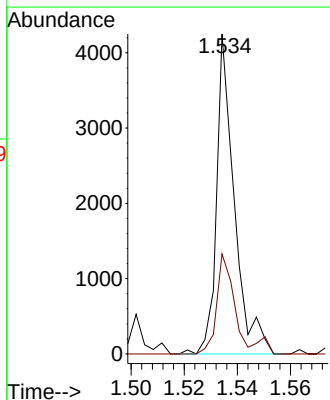
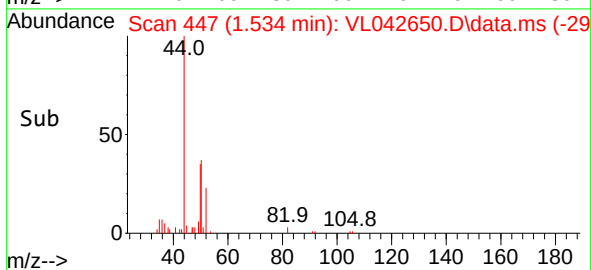
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

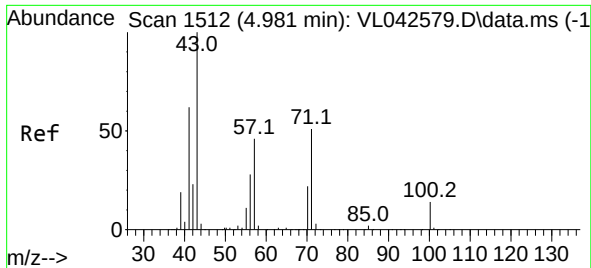


#4
Chloromethane
Concen: 0.352 ppbv m
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09



Tgt Ion: 50 Resp: 1963
Ion Ratio Lower Upper
50 100
52 61.1 25.8 38.6#





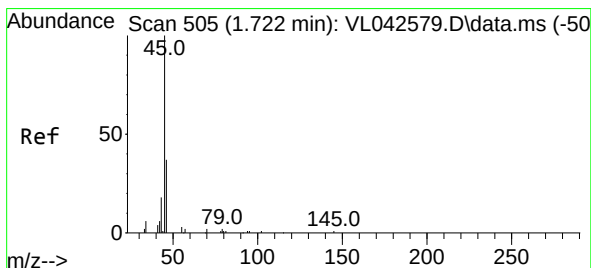
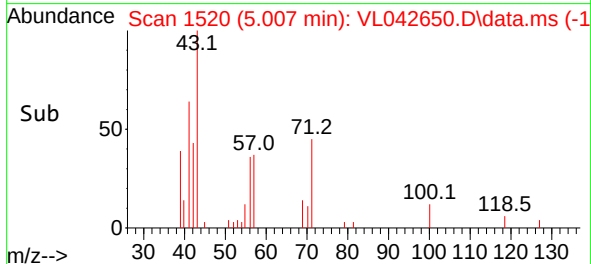
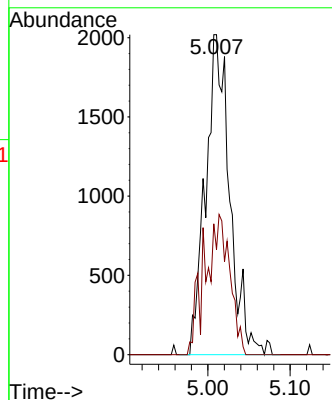
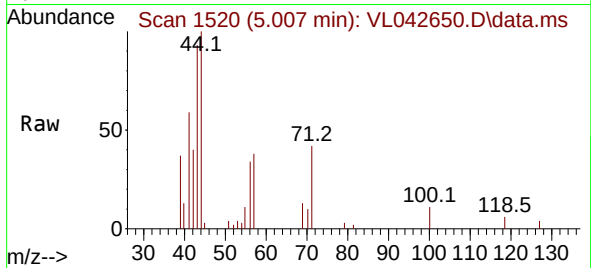
#10
Heptane
Concen: 0.187 ppbv m
RT: 5.007 min Scan# 11
Delta R.T. 0.026 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

Tgt Ion: 43 Resp: 411
Ion Ratio Lower Upper
43 100
57 45.5 38.9 58.3

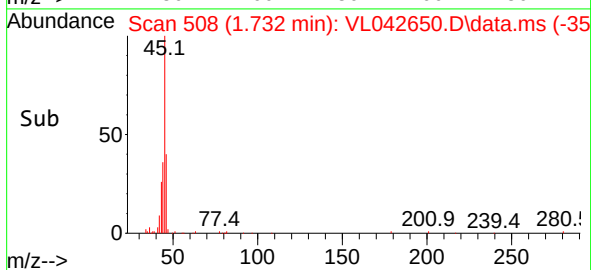
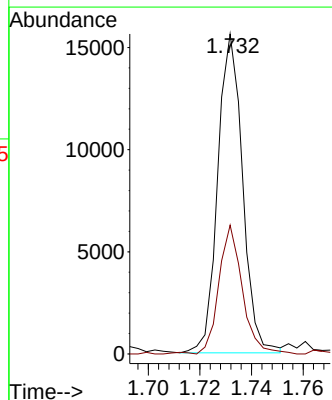
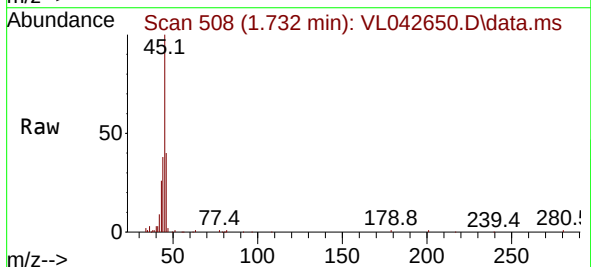
Manual Integrations
APPROVED

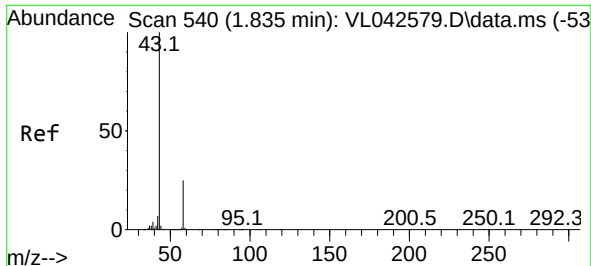
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#13
Ethanol
Concen: 11.192 ppbv
RT: 1.732 min Scan# 508
Delta R.T. 0.010 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

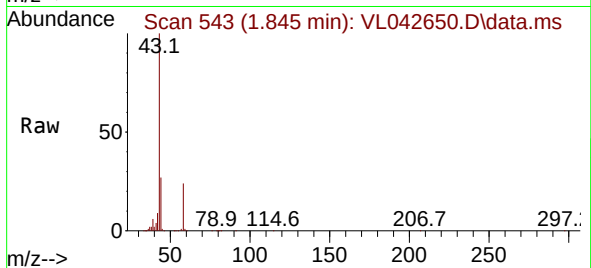
Tgt Ion: 45 Resp: 10418
Ion Ratio Lower Upper
45 100
46 0.0 14.5 58.1#





#15
Acetone
Concen: 3.250 ppbv
RT: 1.845 min Scan# 540
Delta R.T. 0.010 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

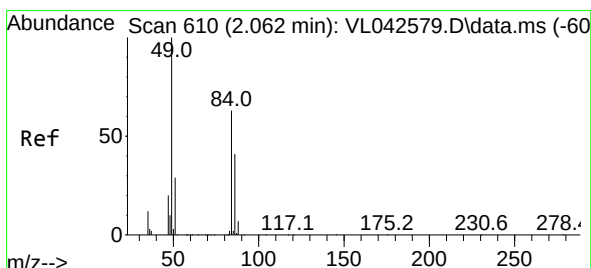
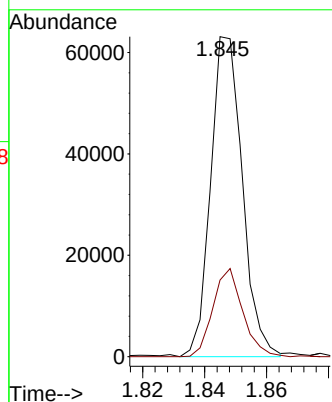
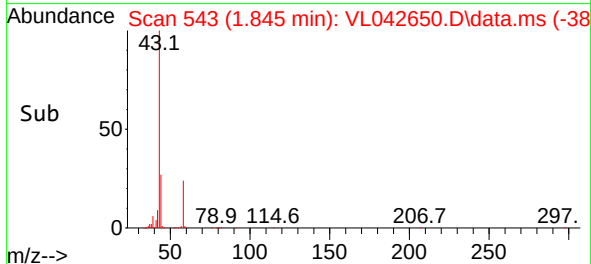
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL



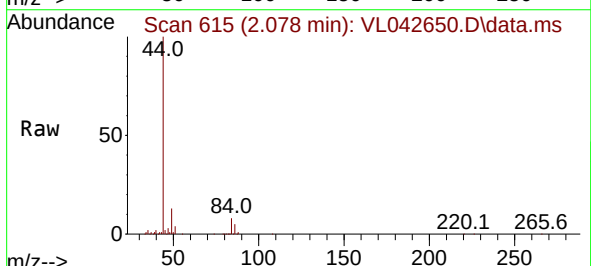
Tgt Ion: 43 Resp: 4486
Ion Ratio Lower Upper
43 100
58 26.0 21.0 31.4

Manual Integrations
APPROVED

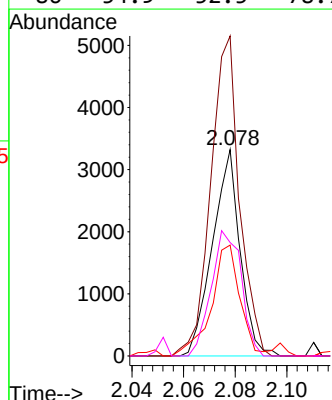
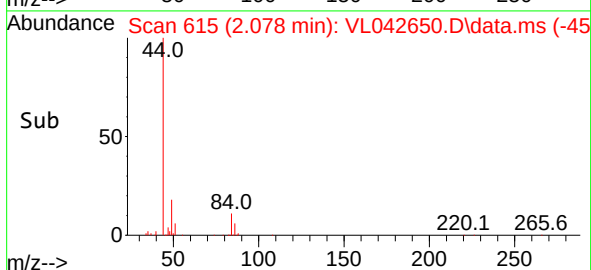
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

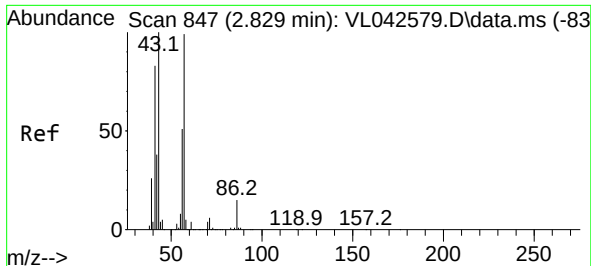


#20
Methylene Chloride
Concen: 0.542 ppbv
RT: 2.078 min Scan# 615
Delta R.T. 0.016 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09



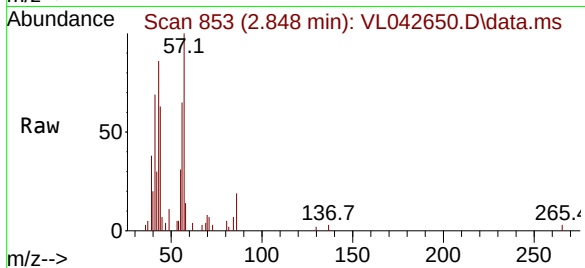
Tgt Ion: 84 Resp: 2468
Ion Ratio Lower Upper
84 100
49 155.0 128.8 193.2
51 51.1 38.6 57.8
86 54.9 52.5 78.7





#26
Hexane
Concen: 0.120 ppbv
RT: 2.848 min Scan# 819
Delta R.T. 0.019 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

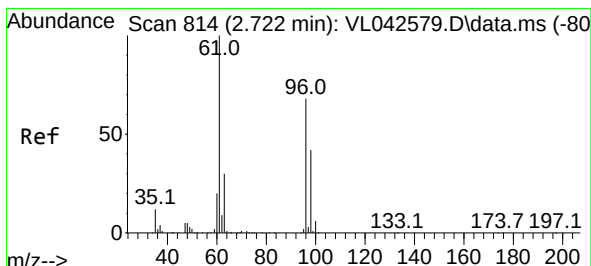
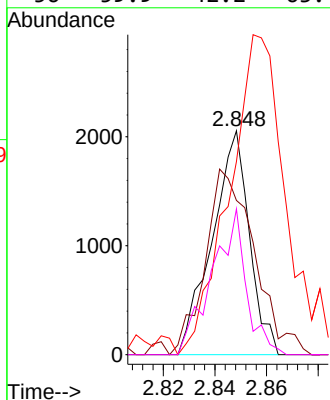
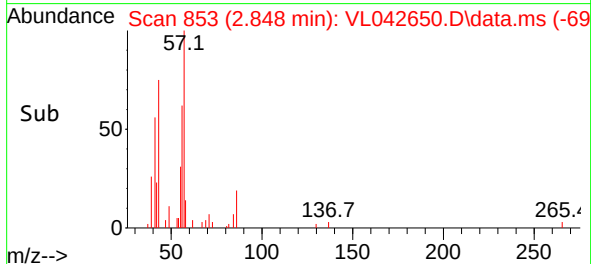
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL



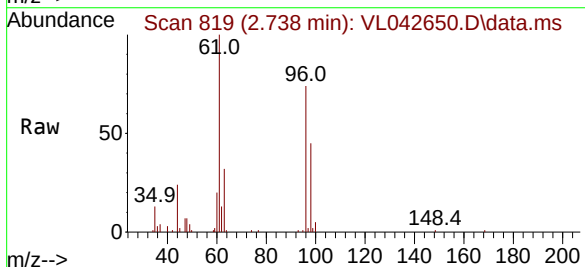
Tgt Ion: 57 Resp: 2062
Ion Ratio Lower Upper
57 100
41 115.1 70.6 106.0
43 227.5 181.1 271.7
56 59.9 42.2 63.4

Manual Integrations
APPROVED

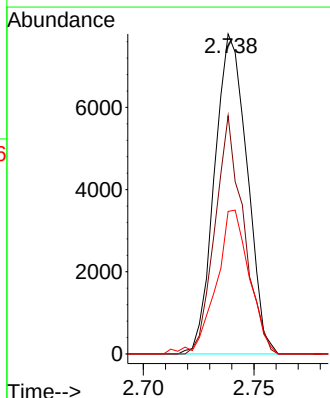
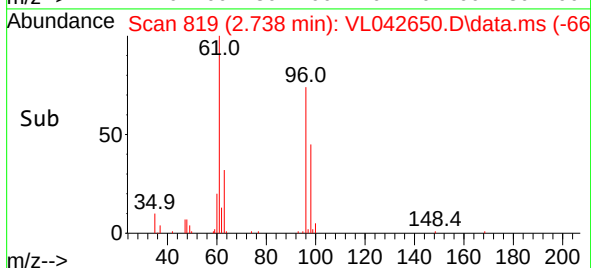
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

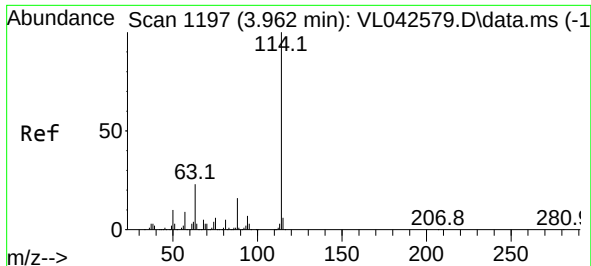


#31
cis-1,2-Dichloroethene
Concen: 0.507 ppbv
RT: 2.738 min Scan# 819
Delta R.T. 0.016 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09



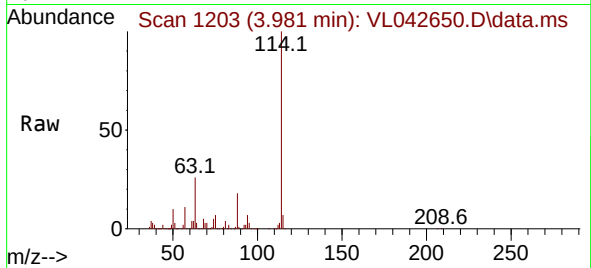
Tgt Ion: 61 Resp: 7959
Ion Ratio Lower Upper
61 100
96 74.5 54.5 81.7
98 44.5 33.4 50.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1197
Delta R.T. 0.019 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

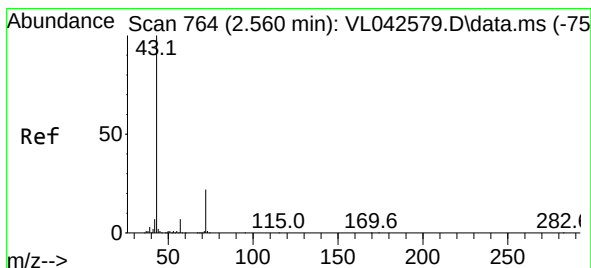
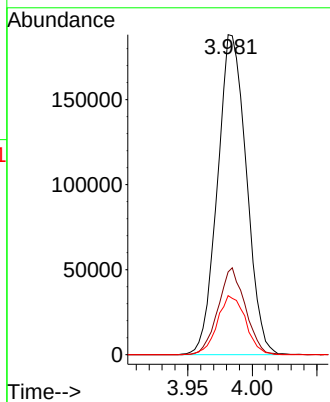
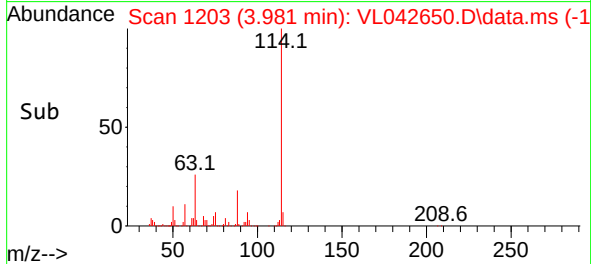
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL



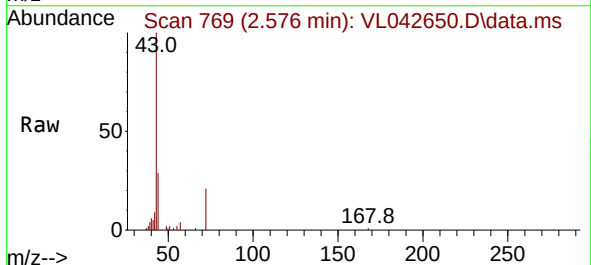
Tgt Ion:114 Resp: 292670
Ion Ratio Lower Upper
114 100
63 25.6 19.0 28.6
88 18.0 13.6 20.4

Manual Integrations
APPROVED

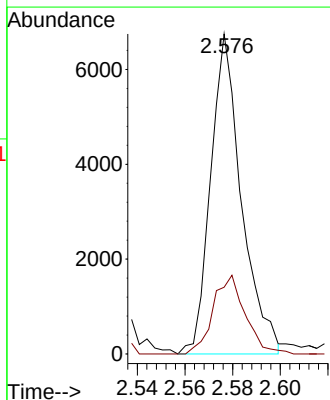
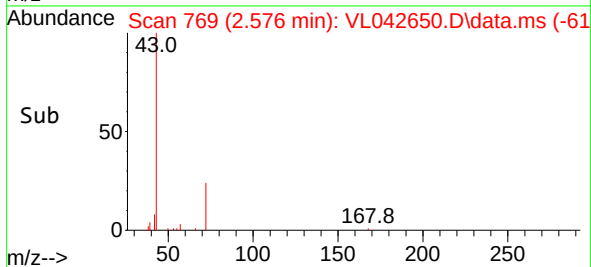
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

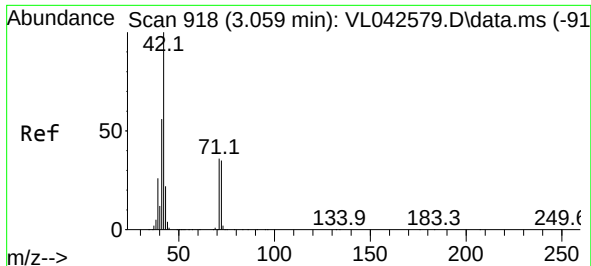


#34
2-Butanone
Concen: 0.291 ppbv
RT: 2.576 min Scan# 769
Delta R.T. 0.016 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09



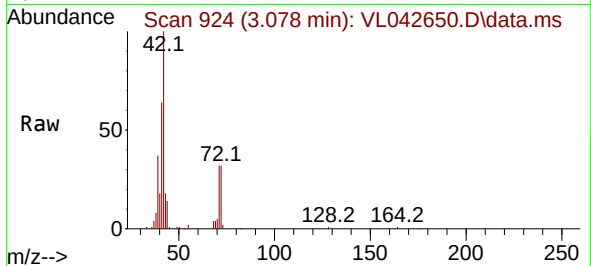
Tgt Ion: 43 Resp: 6066
Ion Ratio Lower Upper
43 100
72 25.7 17.7 26.5





#41
Tetrahydrofuran
Concen: 1.263 ppbv
RT: 3.078 min Scan# 918
Delta R.T. 0.019 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

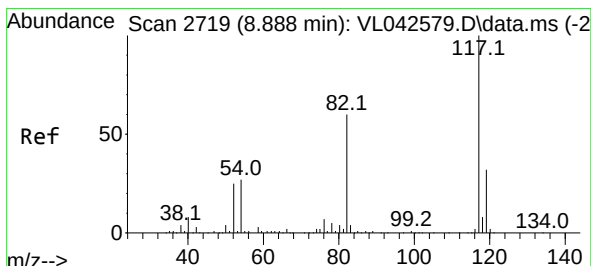
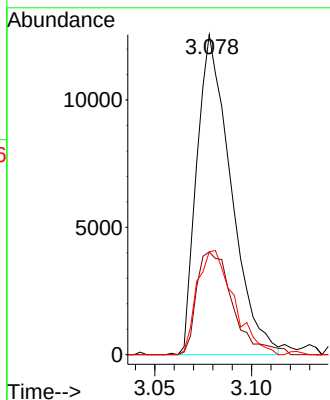
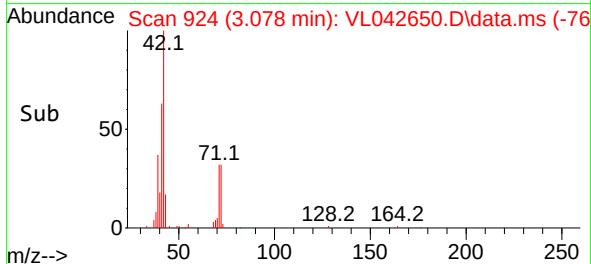
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL



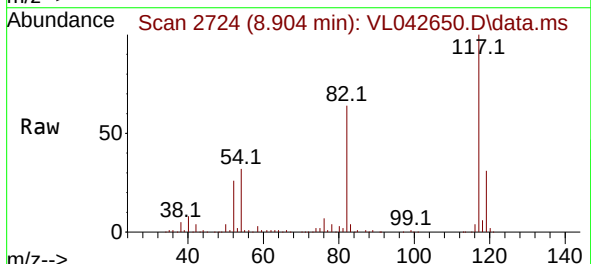
Tgt Ion: 42 Resp: 15420
Ion Ratio Lower Upper
42 100
72 34.1 28.9 43.3
71 35.3 28.5 42.7

Manual Integrations
APPROVED

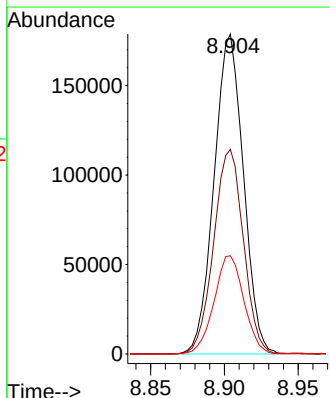
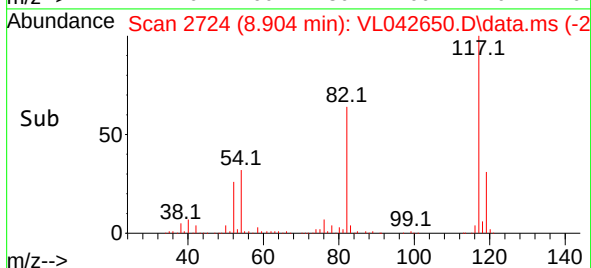
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

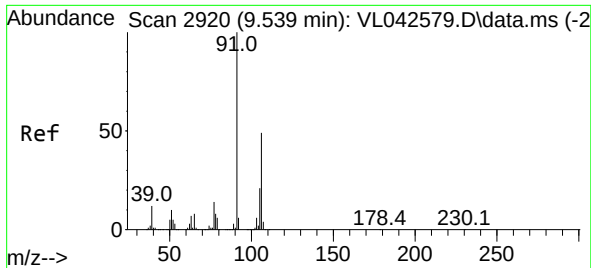


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.016 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09



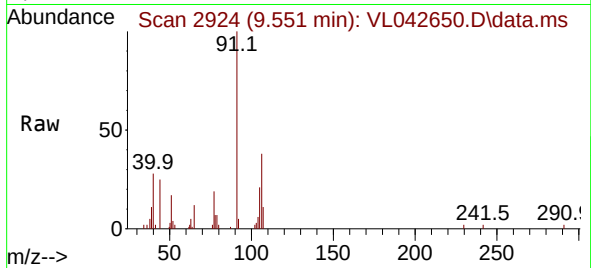
Tgt Ion:117 Resp: 247226
Ion Ratio Lower Upper
117 100
82 64.8 51.2 76.8
119 31.5 26.3 39.5





#59
m/p-Xylene
Concen: 0.196 ppbv m
RT: 9.551 min Scan# 2920
Delta R.T. 0.013 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

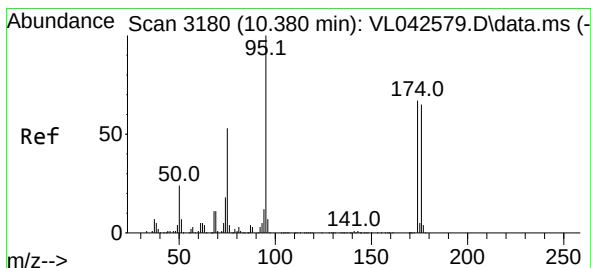
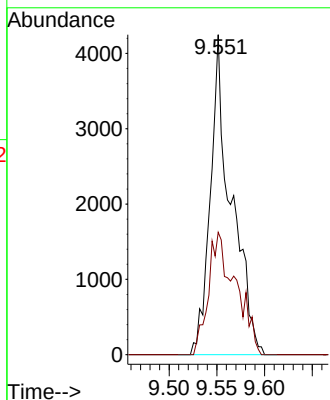
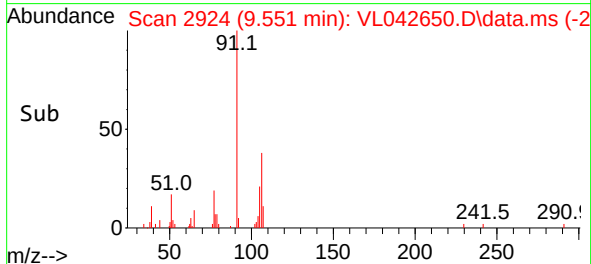
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL



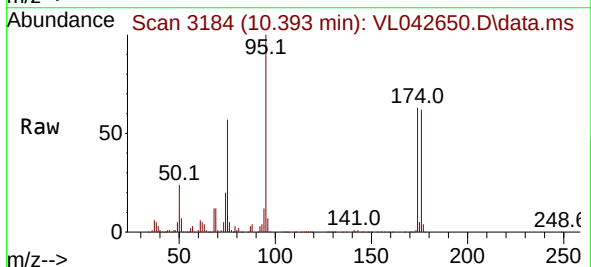
Tgt Ion: 91 Resp: 6460
Ion Ratio Lower Upper
91 100
106 50.0 38.8 58.2

Manual Integrations
APPROVED

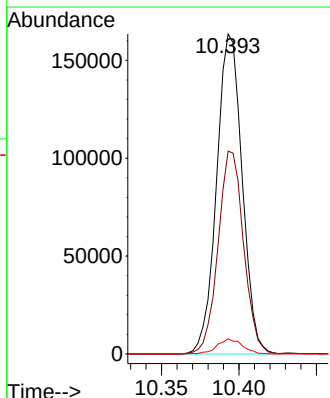
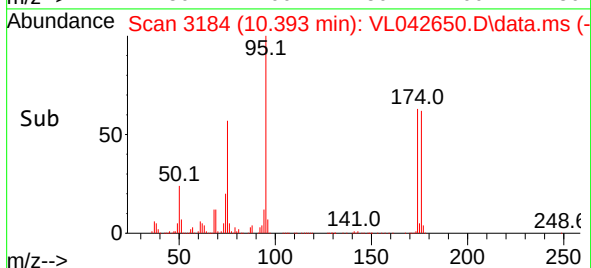
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.131 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.013 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09



Tgt Ion: 95 Resp: 187754
Ion Ratio Lower Upper
95 100
174 63.4 53.1 79.7
175 4.7 4.2 6.2





CALIBRATION SUMMARY

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL052925AIR.M

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

Last Update : Fri May 30 02:01:56 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042584.D 0.1 =VL042583.D 0.5 =VL042582.D 1 =VL042581.D 2 =VL042580.D 10 =VL042579.D 15 =VL042585.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.257	1.353	1.300	1.135	1.101	1.229	8.78
3) Chlorodifluoro...			1.881	1.861	1.826	1.475	1.420	1.693	13.32
4) Chloromethane			0.502	0.529	0.507	0.461	0.434	0.487	7.85
5) T Vinyl Chloride	0.675	0.465	0.529	0.487	0.468	0.437	0.409	0.496	17.69
6) T Bromomethane			0.310	0.251	0.230	0.216	0.200	0.241	17.69
7) Chloroethane			0.214	0.212	0.198	0.175	0.164	0.193	11.60
8) T Dichlorotetra...			1.099	1.098	1.075	0.948	0.900	1.024	9.11
9) T Propene			0.710	0.728	0.722	0.650	0.599	0.682	8.18
10) T Heptane			2.079	2.082	1.981	1.777	1.688	1.921	9.37
11) T Trichlorofluor...			1.193	1.209	1.202	1.071	1.043	1.144	6.98
12) T 1,1,2-Trichlor...			0.903	0.980	0.951	0.838	0.818	0.898	7.79
13) Ethanol			0.114	0.095	0.092	0.058	0.047	0.081	33.96
14) T Bromoethene			0.359	0.346	0.362	0.317	0.304	0.338	7.71
15) T Acetone			1.404	1.484	1.299	0.928	0.908	1.205	22.39
16) T 1,3-Butadiene			0.649	0.636	0.597	0.491	0.480	0.571	14.07
17) tert-Butyl alc...			1.337	1.334	1.279	1.237	1.088	1.255	8.14
18) T 1,1-Dichloroet...			0.451	0.451	0.437	0.377	0.364	0.416	10.11
19) T Isopropyl Alcohol			0.825	0.782	0.742	0.659	0.593	0.720	13.03
20) T Methylene Chlo...			0.473	0.457	0.418	0.326	0.314	0.398	18.57
21) T Allyl Chloride			0.924	0.921	0.866	0.789	0.749	0.850	9.22
22) T trans-1,2-Dich...			0.496	0.517	0.466	0.427	0.418	0.465	9.21
23) T Vinyl Acetate			1.750	1.663	1.686	1.458	1.584	1.628	6.89
24) T 1,1-Dichloroet...			0.996	1.046	1.004	0.903	0.833	0.957	9.03
25) T Ethyl Acetate			3.496	3.585	3.412	3.054	2.934	3.296	8.67
26) T Hexane			1.690	1.638	1.526	1.350	1.286	1.498	11.76
27) T Carbon Disulfide			1.174	1.267	1.198	1.069	1.040	1.150	8.16
28) T Methyl tert-Bu...			0.664	0.693	0.621	0.550	0.511	0.608	12.59
29) T Chloroform			2.099	2.120	2.034	1.755	1.731	1.948	9.74
30) T Cyclohexane			1.318	1.363	1.288	1.146	1.092	1.242	9.38
31) T cis-1,2-Dichlo...			1.419	1.461	1.465	1.271	1.235	1.370	7.96
32) T 1,1,1-Trichlor...	2.207	2.083	2.004	2.043	2.029	1.794	1.771	1.990	7.86

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.760	0.754	0.746	0.655	0.651	0.713	7.71
35) T Carbon Tetrach...	0.681	0.706	0.665	0.684	0.670	0.603	0.612	0.660	5.82
36) T Benzene			1.051	1.052	1.027	0.900	0.894	0.985	8.20
37) T 1,2-Dichloroet...			0.518	0.509	0.513	0.448	0.460	0.489	6.72
38) T Trichloroethene	0.389	0.432	0.468	0.455	0.438	0.376	0.373	0.419	9.28
39) T 1,2-Dichloropr...			0.415	0.374	0.373	0.329	0.330	0.364	9.85

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL052925AIR.M											
40)	T	1,4-Dioxane			0.172	0.178	0.168	0.152	0.145	0.163	8.70
41)	T	Tetrahydrofuran			0.445	0.446	0.426	0.388	0.382	0.417	7.33
42)	T	Bromodichlorom...			0.702	0.737	0.721	0.656	0.660	0.695	5.17
43)		Methyl Methacr...			0.398	0.384	0.406	0.366	0.357	0.382	5.36
44)	T	2,2,4-Trimethy...			1.811	1.830	1.765	1.522	1.495	1.684	9.67
45)	T	t-1,3-Dichloro...			0.433	0.455	0.456	0.424	0.418	0.437	4.01
46)	T	cis-1,3-Dichlo...			0.567	0.568	0.555	0.527	0.523	0.548	3.99
47)	T	1,1,2-Trichlor...			0.406	0.401	0.394	0.343	0.340	0.377	8.69
48)	T	Dibromochlorom...			0.600	0.642	0.635	0.570	0.571	0.603	5.64
49)	T	Bromoform			0.524	0.519	0.553	0.508	0.501	0.521	3.83
50)	T	4-Methyl-2-Pen...			1.036	1.030	1.002	0.958	0.919	0.989	5.05
51)	T	2-Hexanone			0.752	0.818	0.824	0.779	0.749	0.784	4.49
52)	T	Tetrachloroethene	0.351	0.407	0.391	0.383	0.390	0.333	0.321	0.368	8.93
53)	T	Toluene			1.210	1.190	1.197	1.054	1.040	1.138	7.35
54)	T	1,2-Dibromoethane		0.575	0.578	0.590	0.576	0.516	0.513	0.558	6.15
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.520	0.536	0.528	0.467	0.464	0.503	6.95
57)	T	Chlorobenzene			1.081	1.028	1.014	0.868	0.865	0.971	10.17
58)	T	Ethyl Benzene			1.770	1.786	1.833	1.547	1.545	1.696	8.19
59)	T	m/p-Xylene			1.411	1.412	1.431	1.212	1.208	1.335	8.55
60)	T	o-Xylene			1.430	1.410	1.441	1.187	1.188	1.331	9.87
61)	T	Styrene			0.626	0.658	0.678	0.590	0.596	0.629	6.07
62)		Isopropylbenzene			2.060	2.129	2.121	1.772	1.751	1.967	9.62
63)	T	1,1,2,2-Tetrac...	1.054	0.828	0.879	0.861	0.855	0.723	0.727	0.847	13.16
64)		n-propylbenzene			0.579	0.541	0.570	0.471	0.475	0.527	9.74
65)		tert-Butylbenzene			1.945	1.923	1.942	1.577	1.538	1.785	11.68
66)	T	Benzyl Chloride			0.199	0.237	0.252	0.241	0.220	0.230	8.94
67)		sec-Butylbenzene			2.745	2.743	2.699	2.195	2.165	2.509	12.01
68)	S	1-Bromo-4-Fluo...	0.752	0.751	0.755	0.751	0.741	0.744	0.754	0.750	0.68
69)		p-Isopropyltol...			2.241	2.249	2.299	1.868	1.851	2.101	10.57
70)		n-Butylbenzene			2.110	2.267	2.299	1.842	1.853	2.074	10.56
71)		2-Chlorotoluene			1.603	1.620	1.596	1.343	1.339	1.500	9.70
72)	T	4-Ethyltoluene			1.704	1.797	1.823	1.481	1.494	1.660	9.86
73)	T	1,3,5-Trimethy...			1.441	1.482	1.475	1.235	1.236	1.374	9.25
74)	T	1,2,4-Trimethy...			1.640	1.675	1.666	1.335	1.306	1.524	12.26
75)	T	1,3-Dichlorobe...			1.031	1.034	1.040	0.839	0.843	0.957	11.13
76)	T	1,4-Dichlorobe...			0.998	1.040	1.037	0.849	0.851	0.955	10.18
77)	T	1,2-Dichlorobe...			1.019	1.008	1.027	0.798	0.793	0.929	13.14
78)	T	Hexachloro-1,3...			0.872	0.893	0.880	0.607	0.593	0.769	20.11
79)	T	Naphthalene		1.088	1.366	1.634	1.785	1.383	1.366	1.437	16.89
80)	T	Naphthalene,2-...			0.444	0.562	0.781	0.716	0.743	0.649	21.85
81)	T	1,2,4-Trichlor...			0.716	0.889	0.944	0.735	0.727	0.802	13.26

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042579.D
 Acq On : 29 May 2025 11:09
 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 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:16:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	102792	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	307854	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	285844	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 212758 9.929 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	116625	9.232	ppbv	100
3) Chlorodifluoromethane	1.476	51	151637	8.715	ppbv	100
4) Chloromethane	1.534	50	47416	9.478	ppbv	100
5) Vinyl Chloride	1.580	62	44895	8.809	ppbv	100
6) Bromomethane	1.667	94	22207	8.953	ppbv	100
7) Chloroethane	1.706	64	17953	9.066	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	97419	9.255	ppbv	100
9) Propene	1.483	41	66767	9.529	ppbv	100
10) Heptane	4.981	43	182619	9.236	ppbv	100
11) Trichlorofluoromethane	1.877	101	110055	9.363	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	86117	9.330	ppbv	100
13) Ethanol	1.722	45	5975m	7.639	ppbv	
14) Bromoethene	1.784	108	32588	9.386	ppbv	100
15) Acetone	1.835	43	95441	7.708	ppbv	100
16) 1,3-Butadiene	1.609	39	50485	8.607	ppbv	100
17) tert-Butyl alcohol	2.043	59	127162	9.858	ppbv	100
18) 1,1-Dichloroethene	2.036	96	38765	9.026	ppbv	100
19) Isopropyl Alcohol	1.887	45	67731	9.151	ppbv	100
20) Methylene Chloride	2.062	84	33544	8.209	ppbv	100
21) Allyl Chloride	2.098	41	81153	9.289	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	43936	9.165	ppbv	100
23) Vinyl Acetate	2.467	43	149858	8.954	ppbv	100
24) 1,1-Dichloroethane	2.412	63	92836	9.442	ppbv	100
25) Ethyl Acetate	2.839	43	313915	9.264	ppbv	100
26) Hexane	2.829	57	138771	9.013	ppbv	100
27) Carbon Disulfide	2.153	76	109904	9.298	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	56510	9.045	ppbv	100
29) Chloroform	2.852	83	180449	9.013	ppbv	100
30) Cyclohexane	3.858	84	117833	9.232	ppbv	100
31) cis-1,2-Dichloroethene	2.722	61	130618	9.274	ppbv	100
32) 1,1,1-Trichloroethane	3.370	97	184372	9.177	ppbv	100
34) 2-Butanone	2.560	43	201796	9.192	ppbv	100
35) Carbon Tetrachloride	3.768	117	185629	9.132	ppbv	100
36) Benzene	3.661	78	277132	9.142	ppbv	100
37) 1,2-Dichloroethane	3.221	62	137914	9.153	ppbv	100
38) Trichloroethene	4.551	130	115772	8.916	ppbv	100
39) 1,2-Dichloropropane	4.318	63	101185	9.029	ppbv	100
40) 1,4-Dioxane	4.590	88	46671	9.797	ppbv #	100
41) Tetrahydrofuran	3.059	42	119530	9.301	ppbv	100
42) Bromodichloromethane	4.496	83	202026	9.441	ppbv	100
43) Methyl Methacrylate	4.884	69	112746	9.595	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	468572	9.043	ppbv	100
45) t-1,3-Dichloropropene	6.422	75	130611	9.700	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042579.D
 Acq On : 29 May 2025 11:09
 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 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:16:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

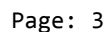
Response via : Initial Calibration

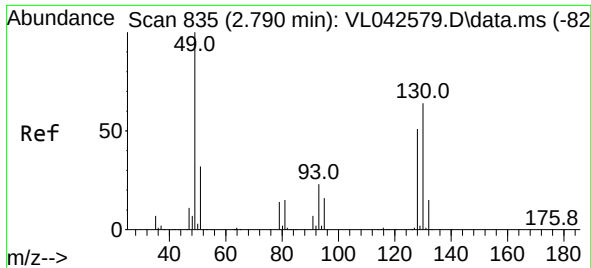
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	162155	9.614	ppbv	100
47) 1,1,2-Trichloroethane	6.587	97	105576	9.097	ppbv	100
48) Dibromochloromethane	7.396	129	175572	9.450	ppbv	100
49) Bromoform	9.490	173	156317	9.751	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	294836	9.643	ppbv	100
51) 2-Hexanone	7.445	43	239826	9.930	ppbv	100
52) Tetrachloroethene	8.231	164	102403	9.038	ppbv	100
53) Toluene	6.943	91	324605	9.264	ppbv	100
54) 1,2-Dibromoethane	7.658	107	158813	9.231	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	133368	9.279	ppbv	100
57) Chlorobenzene	8.927	112	248085	8.938	ppbv	100
58) Ethyl Benzene	9.361	91	442268	9.121	ppbv	100
59) m/p-Xylene	9.539	91	692934m	18.156	ppbv	
60) o-Xylene	9.969	91	339403	8.919	ppbv	100
61) Styrene	9.875	104	168674	9.374	ppbv	100
62) Isopropylbenzene	10.545	105	506586	9.010	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	206564	8.536	ppbv	100
64) n-propylbenzene	10.992	120	134675	8.936	ppbv	99
65) tert-Butylbenzene	11.536	119	450639	8.833	ppbv	100
66) Benzyl Chloride	11.620	91	68801	10.457	ppbv	100
67) sec-Butylbenzene	11.772	105	627565	8.749	ppbv	100
69) p-Isopropyltoluene	11.931	119	533961	8.889	ppbv	100
70) n-Butylbenzene	12.287	91	526566	8.881	ppbv	100
71) 2-Chlorotoluene	10.904	91	383881	8.952	ppbv	100
72) 4-Ethyltoluene	11.131	105	423227	8.920	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	352978	8.989	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	381512	8.755	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	239782	8.762	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	242731	8.894	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	228222	8.593	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	173447	7.893	ppbv	100
79) Naphthalene	13.516	128	395465	9.666	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	204746	11.045	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	210120	9.163	ppbv	100

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

Manual Integrations

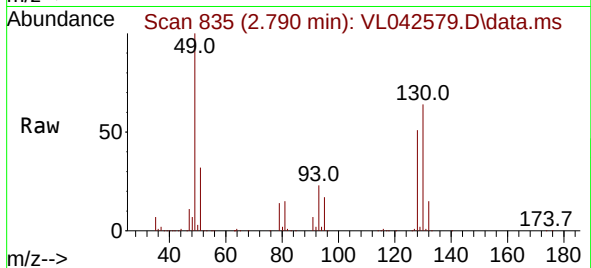
Quant Time: May 30 01:16:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

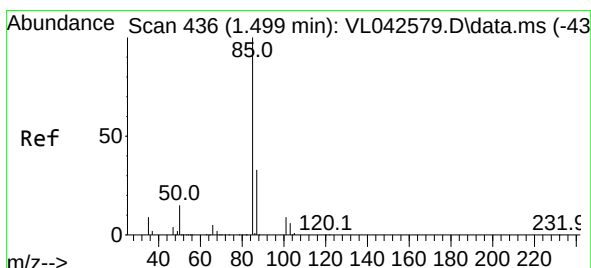
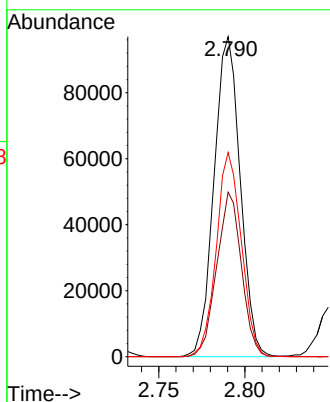
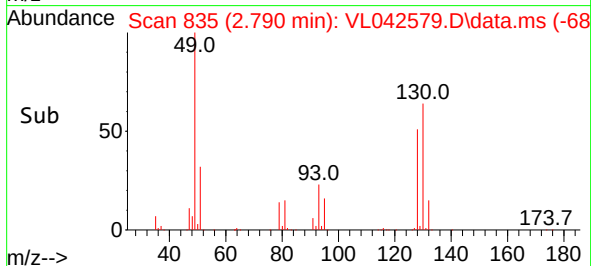
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



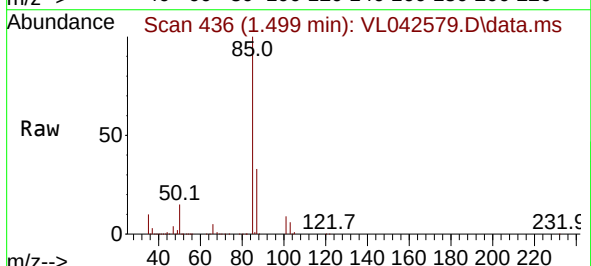
Tgt Ion: 49 Resp: 102792
Ion Ratio Lower Upper
49 100
128 48.4 24.2 72.6
130 60.8 30.4 91.2

Manual Integrations
APPROVED

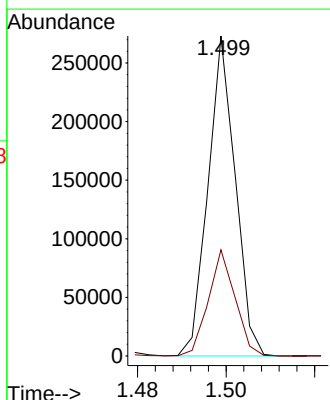
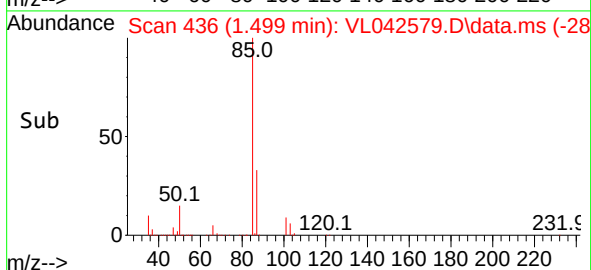
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

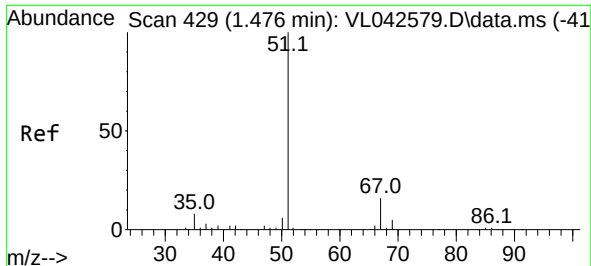


#2
Dichlorodifluoromethane
Concen: 9.232 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09



Tgt Ion: 85 Resp: 116625
Ion Ratio Lower Upper
85 100
87 33.2 26.6 39.8





#3

Chlorodifluoromethane

Concen: 8.715 ppbv

RT: 1.476 min Scan# 429

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 51 Resp: 15163

Ion Ratio Lower Upper

51 100

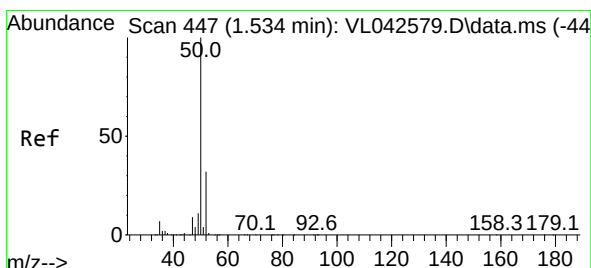
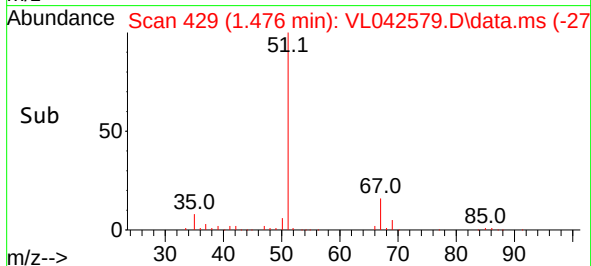
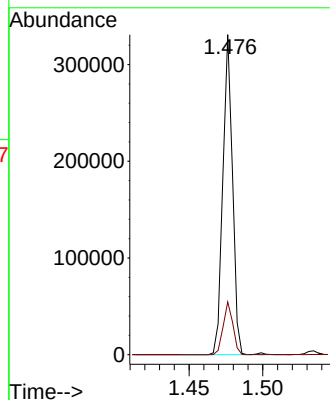
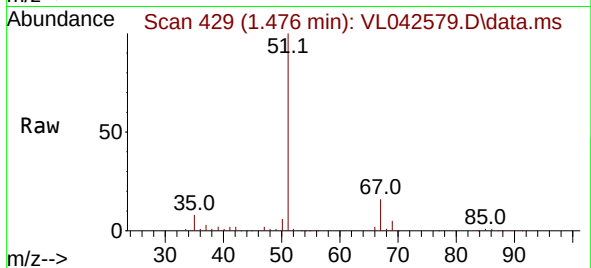
67 16.8 13.4 20.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#4

Chloromethane

Concen: 9.478 ppbv

RT: 1.534 min Scan# 447

Delta R.T. 0.000 min

Lab File: VL042579.D

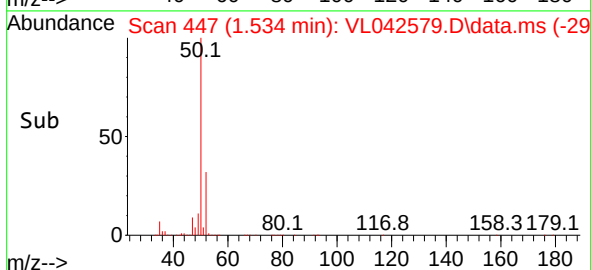
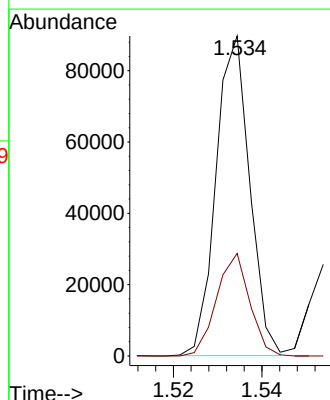
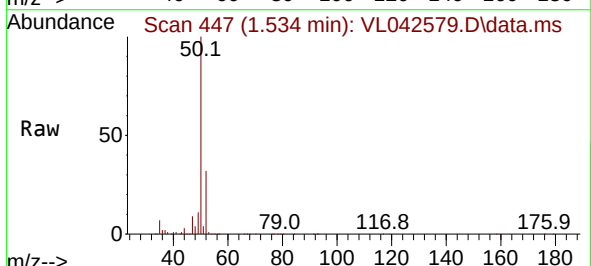
Acq: 29 May 2025 11:09

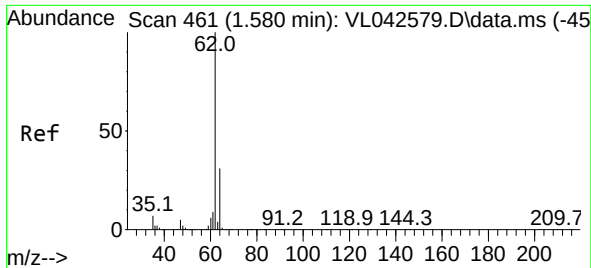
Tgt Ion: 50 Resp: 47416

Ion Ratio Lower Upper

50 100

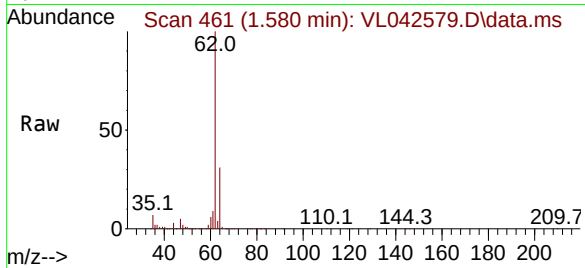
52 32.2 25.8 38.6





#5
 Vinyl Chloride
 Concen: 8.809 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

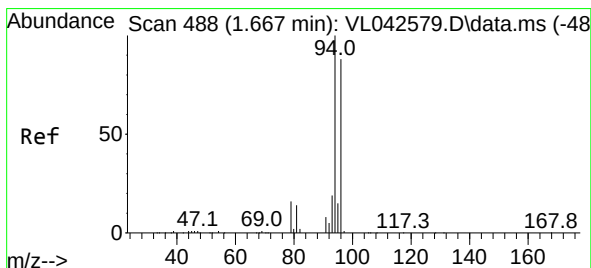
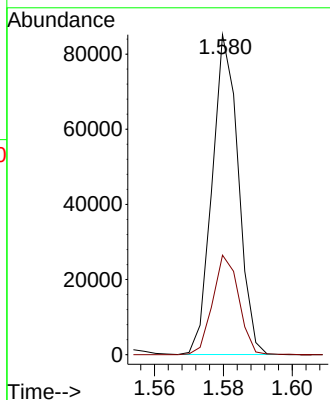
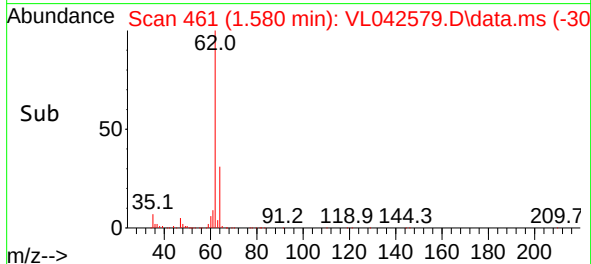
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion: 62 Resp: 4489
 Ion Ratio Lower Upper
 62 100
 64 31.1 24.9 37.3

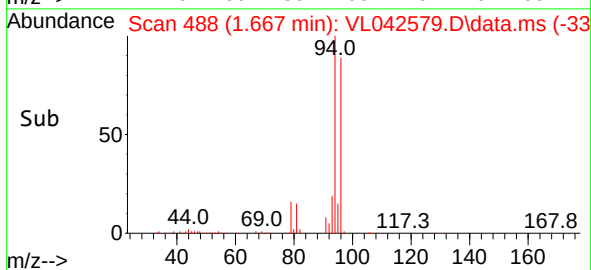
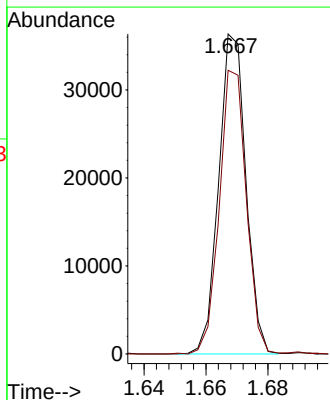
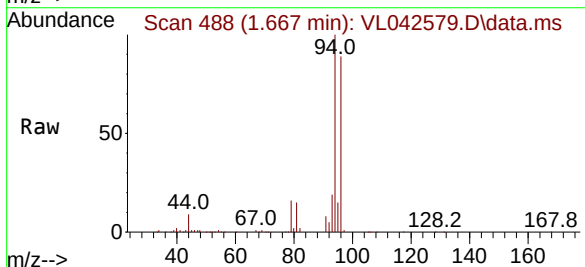
Manual Integrations
 APPROVED

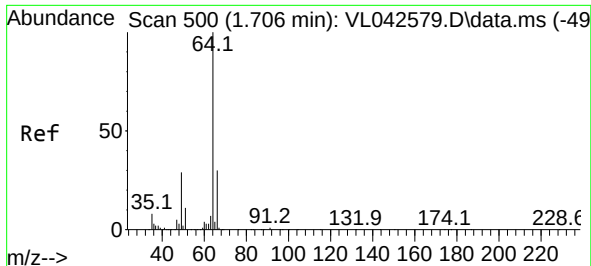
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#6
 Bromomethane
 Concen: 8.953 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

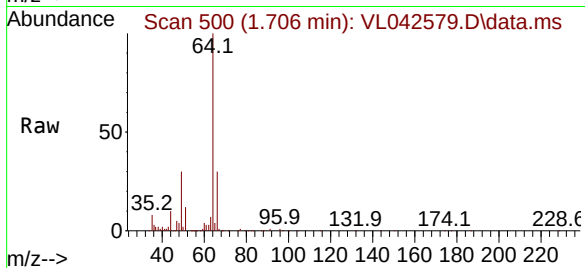
Tgt Ion: 94 Resp: 22207
 Ion Ratio Lower Upper
 94 100
 96 88.4 70.7 106.1





#7
Chloroethane
Concen: 9.066 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

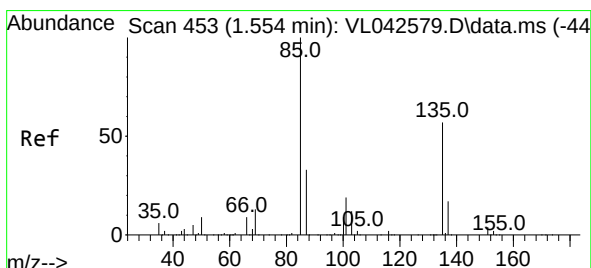
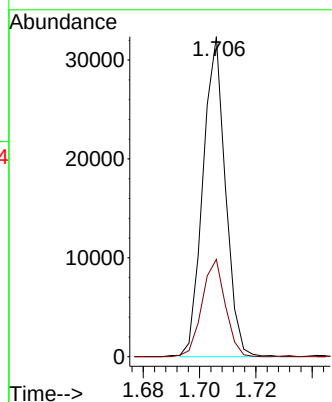
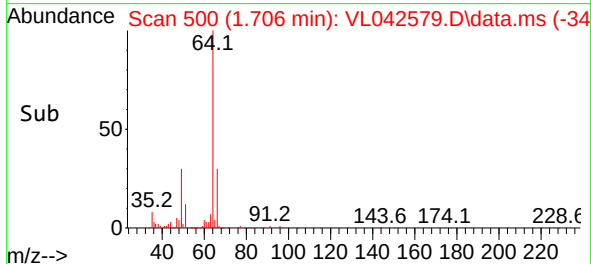
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



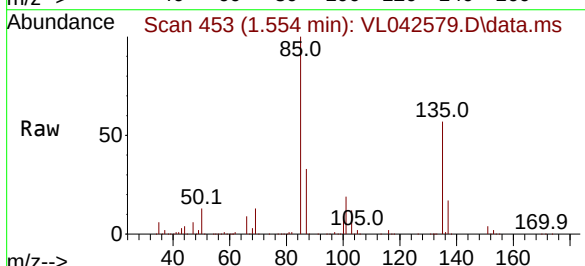
Tgt Ion: 64 Resp: 1795
Ion Ratio Lower Upper
64 100
66 30.4 24.3 36.5

Manual Integrations
APPROVED

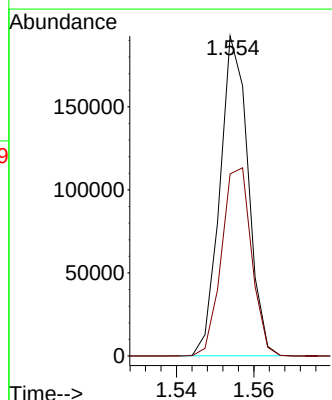
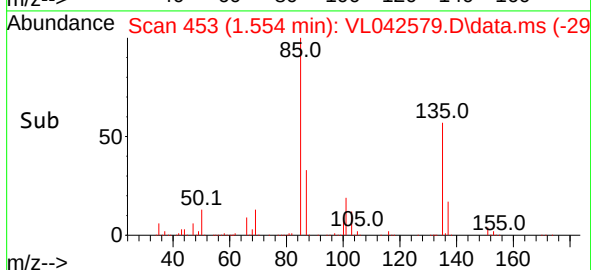
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

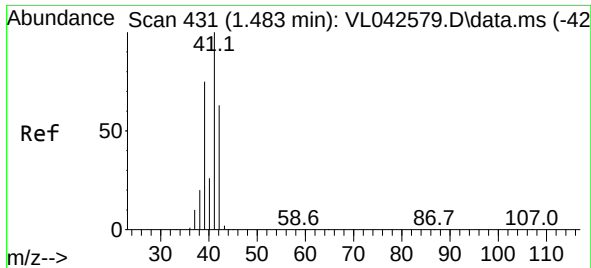


#8
Dichlorotetrafluoroethane
Concen: 9.255 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09



Tgt Ion: 85 Resp: 97419
Ion Ratio Lower Upper
85 100
135 62.8 50.2 75.4





#9

Propene

Concen: 9.529 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 41 Resp: 6676

Ion Ratio Lower Upper

41 100

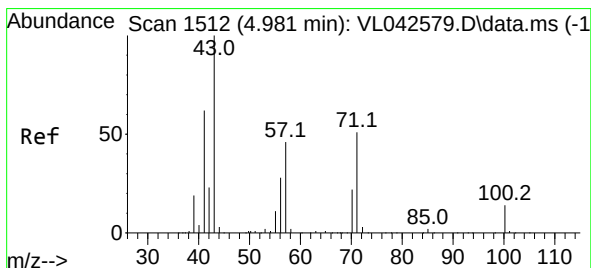
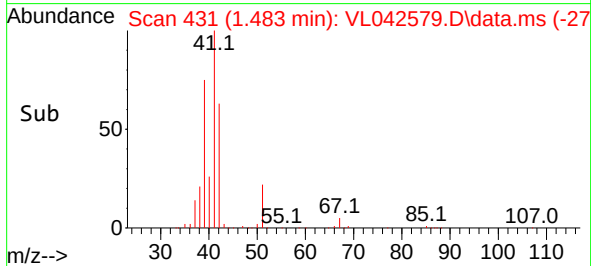
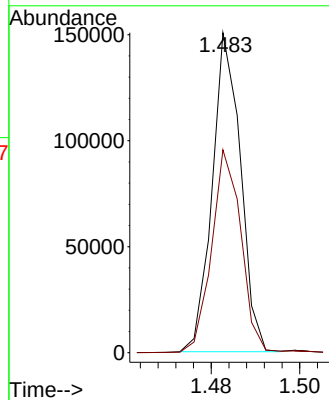
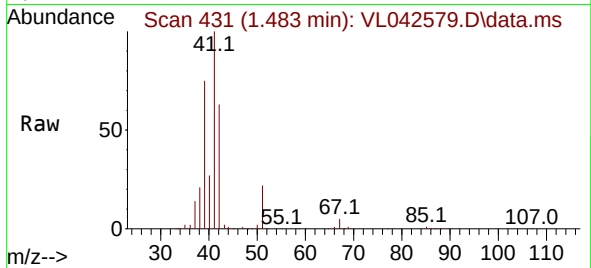
42 66.9 53.3 79.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#10

Heptane

Concen: 9.236 ppbv

RT: 4.981 min Scan# 1512

Delta R.T. 0.000 min

Lab File: VL042579.D

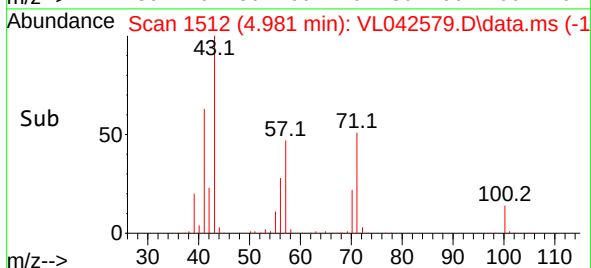
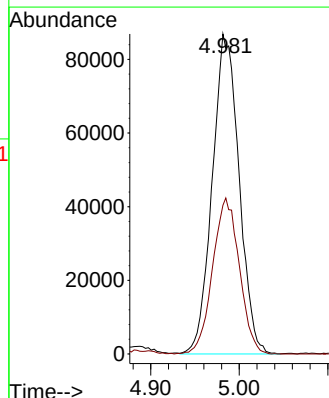
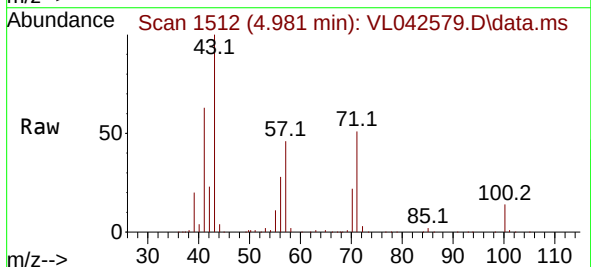
Acq: 29 May 2025 11:09

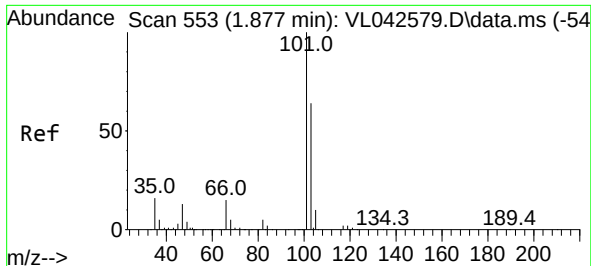
Tgt Ion: 43 Resp: 182619

Ion Ratio Lower Upper

43 100

57 48.6 38.9 58.3





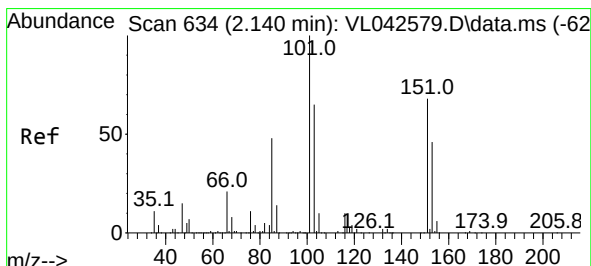
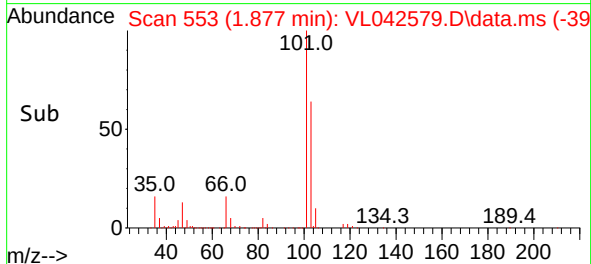
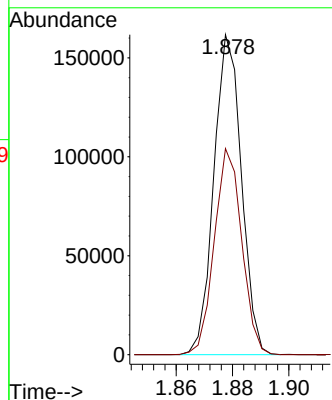
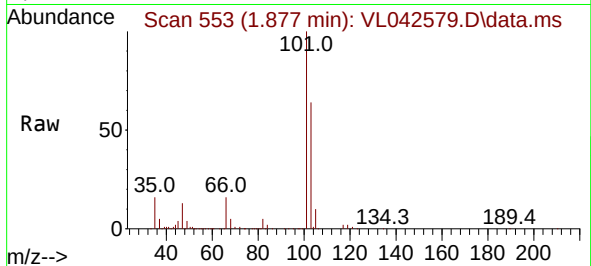
#11
 Trichlorofluoromethane
 Concen: 9.363 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion:101 Resp: 11005
 Ion Ratio Lower Upper
 101 100
 103 64.4 51.5 77.3

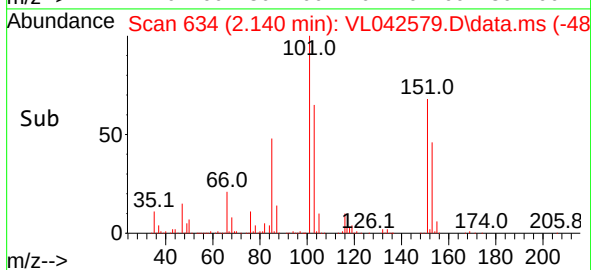
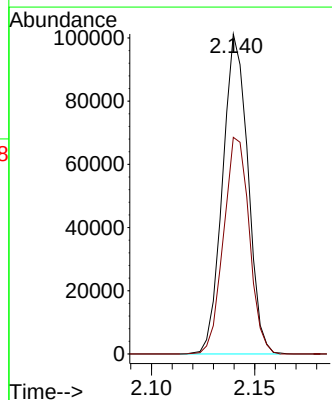
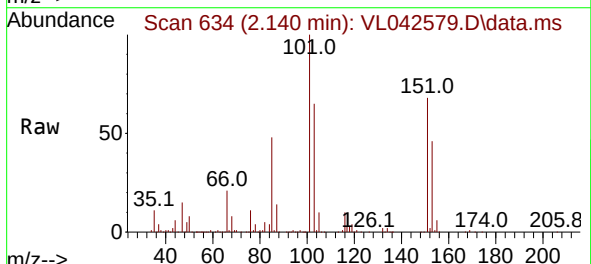
Manual Integrations
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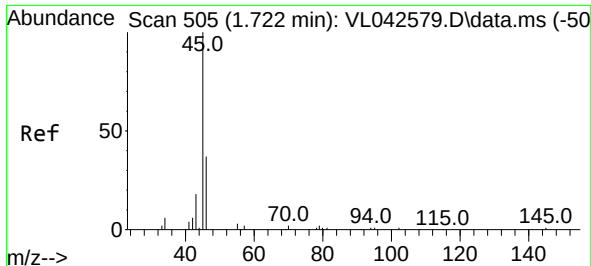
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.330 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

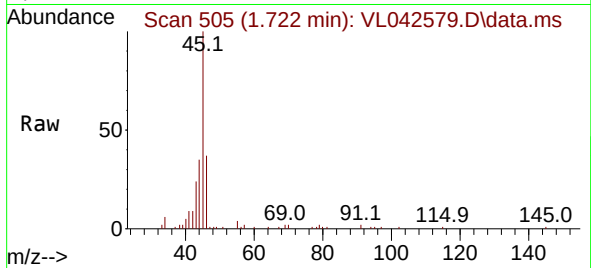
Tgt Ion:101 Resp: 86117
 Ion Ratio Lower Upper
 101 100
 151 69.1 55.3 82.9





#13
Ethanol
Concen: 7.639 ppbv m
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

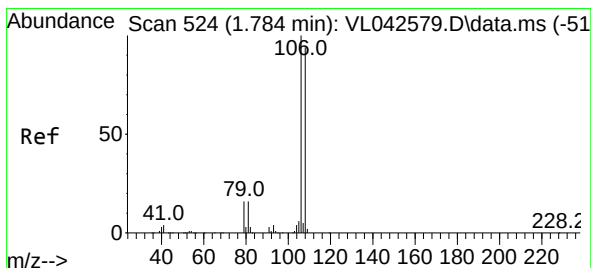
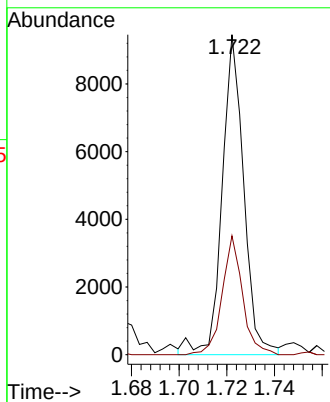
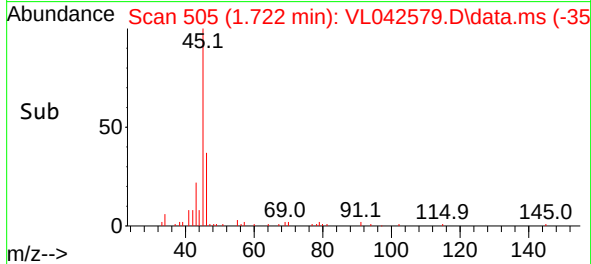
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



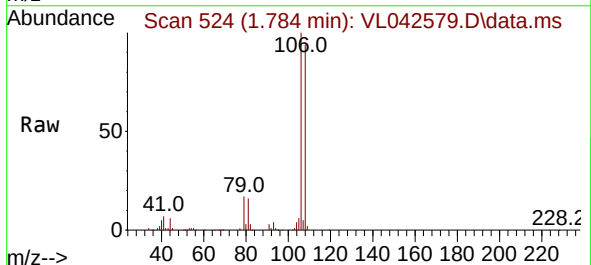
Tgt Ion: 45 Resp: 5975
Ion Ratio Lower Upper
45 100
46 35.5 14.5 58.1

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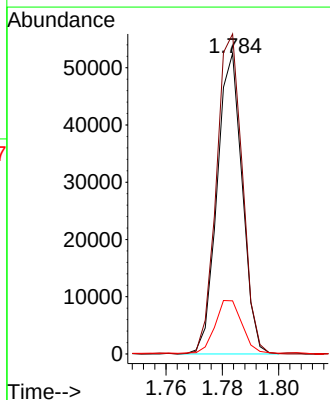
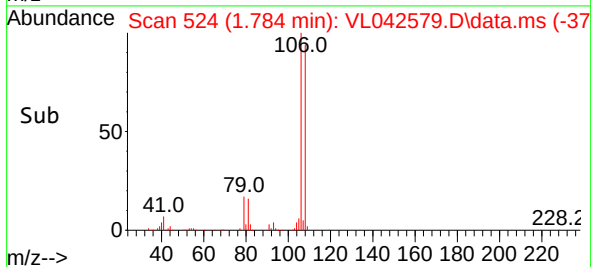
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

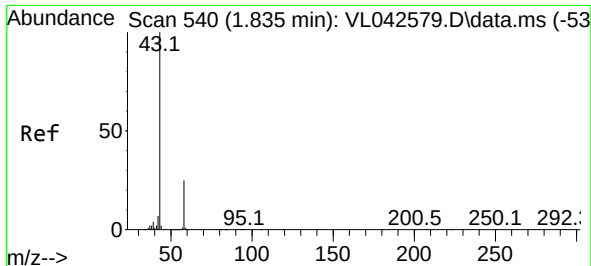


#14
Bromoethene
Concen: 9.386 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09



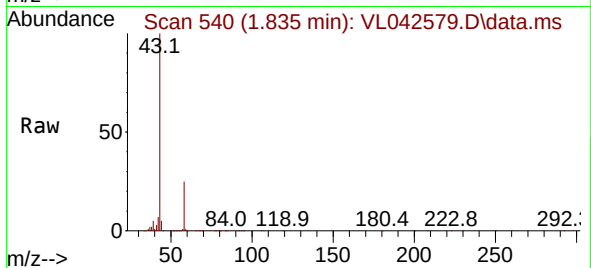
Tgt Ion:108 Resp: 32588
Ion Ratio Lower Upper
108 100
106 109.9 87.9 131.9
79 19.5 15.6 23.4





#15
Acetone
Concen: 7.708 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

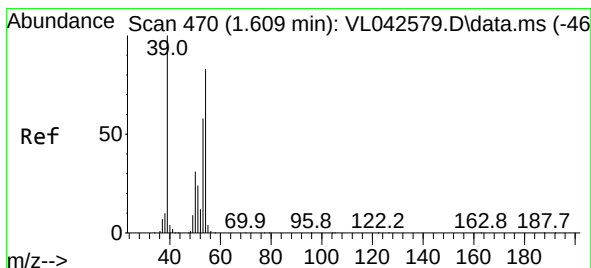
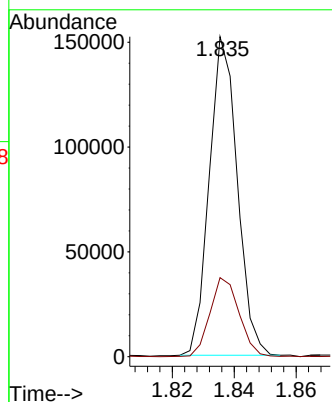
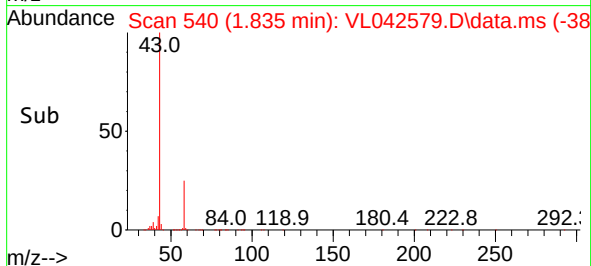
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



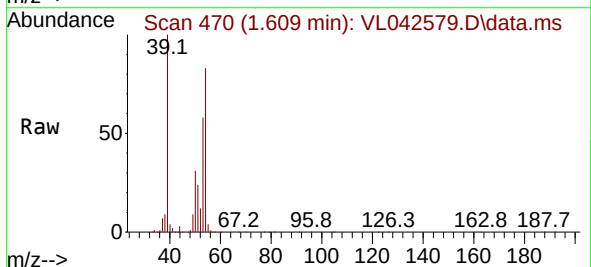
Tgt Ion: 43 Resp: 9544
Ion Ratio Lower Upper
43 100
58 26.2 21.0 31.4

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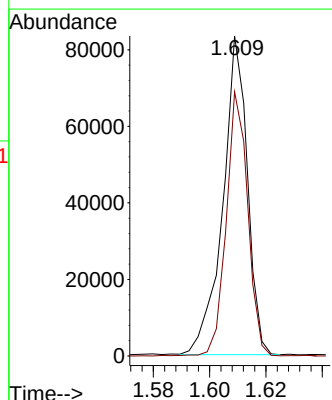
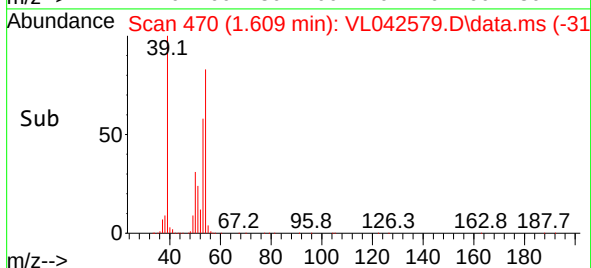
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

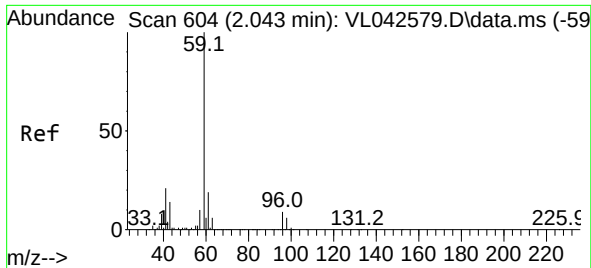


#16
1,3-Butadiene
Concen: 8.607 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09



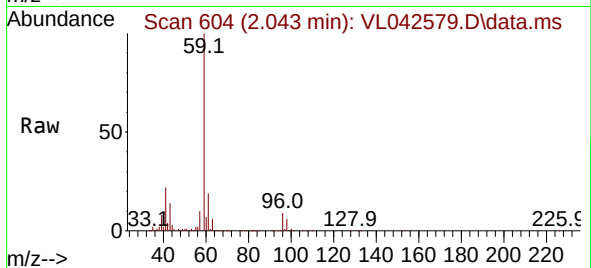
Tgt Ion: 39 Resp: 50485
Ion Ratio Lower Upper
39 100
54 72.4 57.9 86.9





#17
tert-Butyl alcohol
Concen: 9.858 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

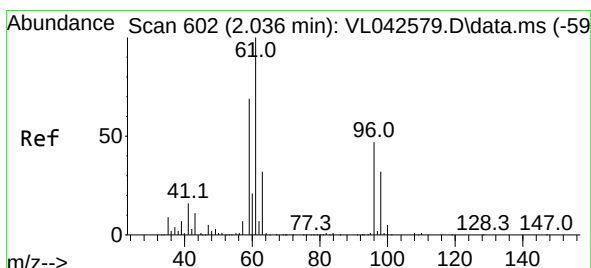
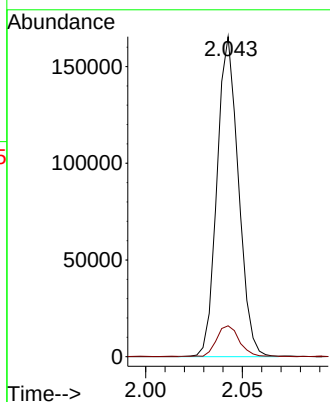
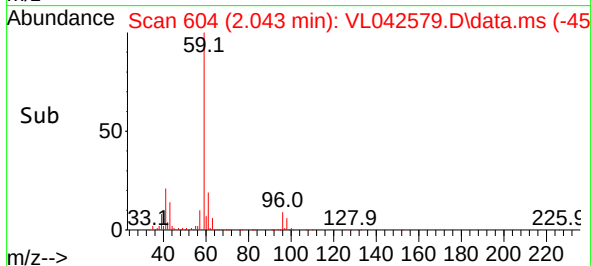
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 59 Resp: 127162
Ion Ratio Lower Upper
59 100
57 10.7 8.6 12.8

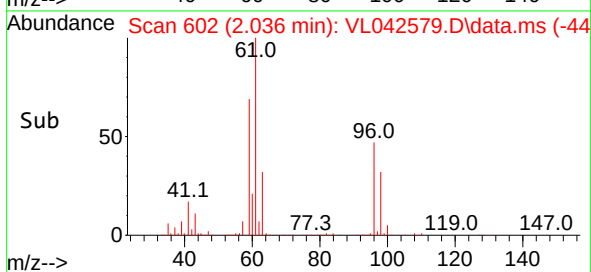
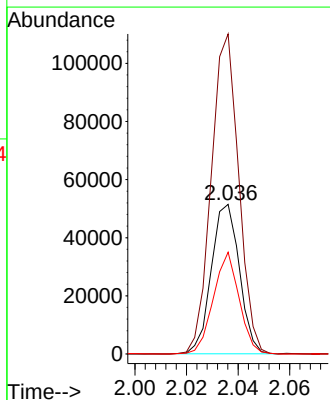
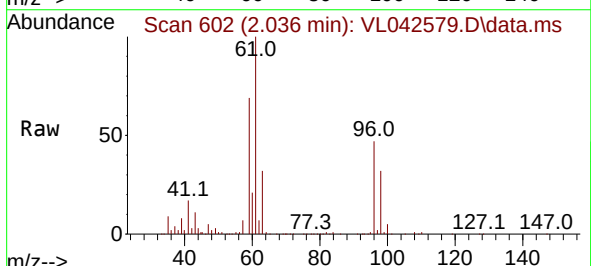
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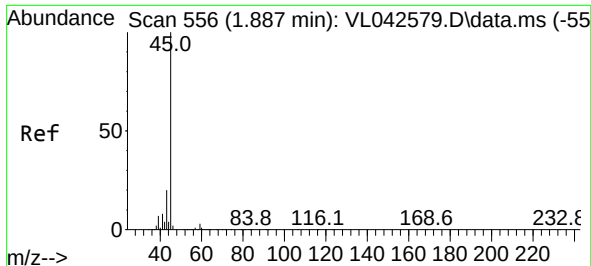
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#18
1,1-Dichloroethene
Concen: 9.026 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

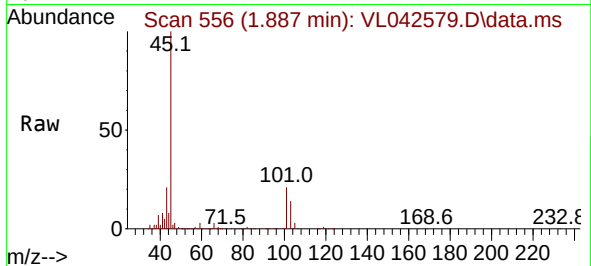
Tgt Ion: 96 Resp: 38765
Ion Ratio Lower Upper
96 100
61 214.2 171.1 256.7
98 68.1 54.4 81.6





#19
Isopropyl Alcohol
Concen: 9.151 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

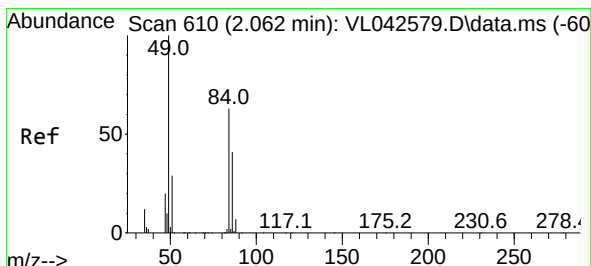
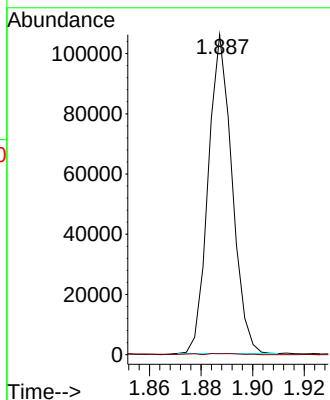
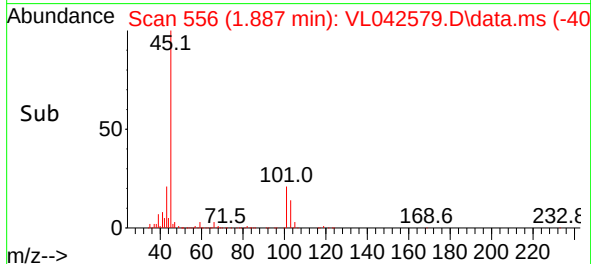
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



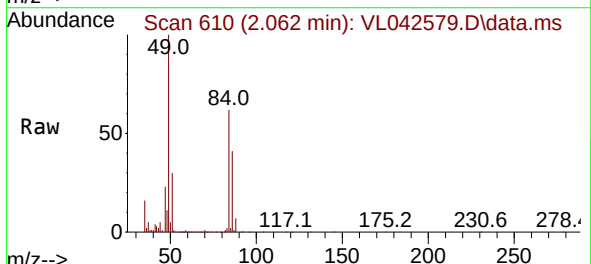
Tgt Ion: 45 Resp: 6773
Ion Ratio Lower Upper
45 100
58 36.8 29.4 44.2

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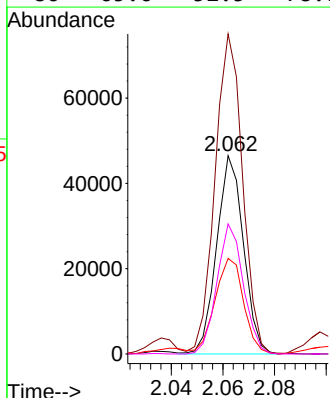
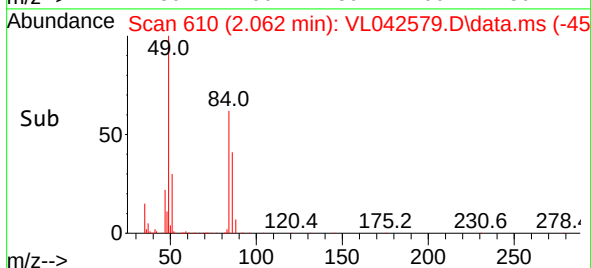
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

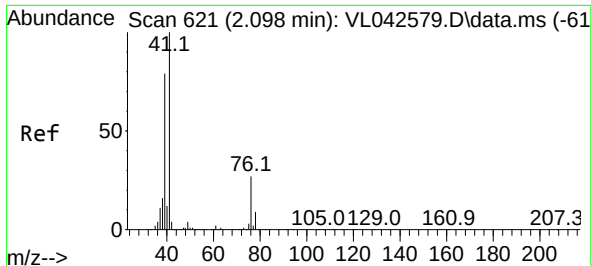


#20
Methylene Chloride
Concen: 8.209 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09



Tgt Ion: 84 Resp: 33544
Ion Ratio Lower Upper
84 100
49 161.0 128.8 193.2
51 48.2 38.6 57.8
86 65.6 52.5 78.7





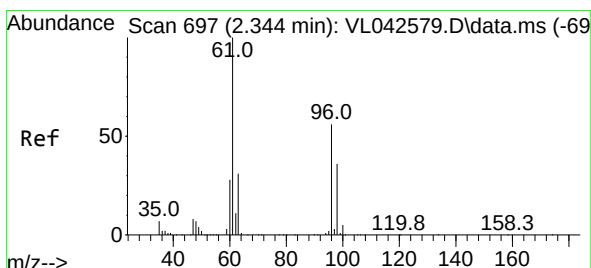
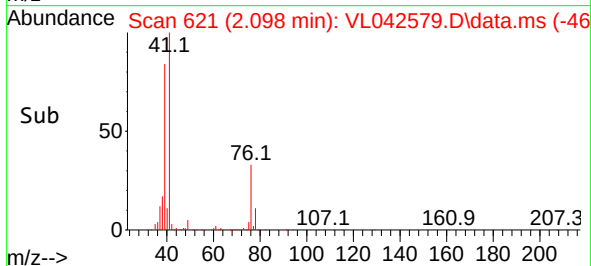
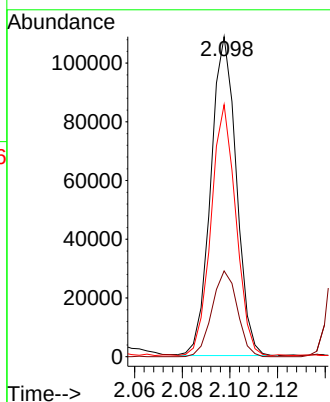
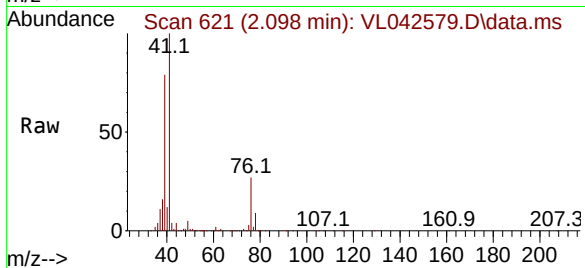
#21
 Allyl Chloride
 Concen: 9.289 ppbv
 RT: 2.098 min Scan# 611
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 41 Resp: 8115
 Ion Ratio Lower Upper
 41 100
 76 26.5 21.2 31.8
 39 76.1 60.9 91.3

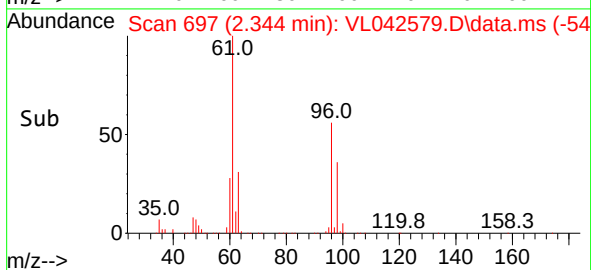
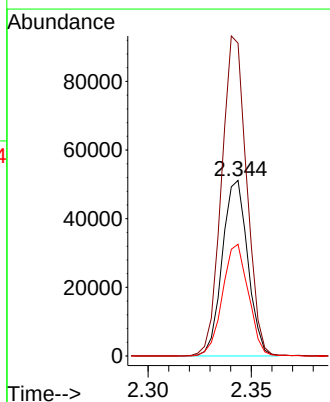
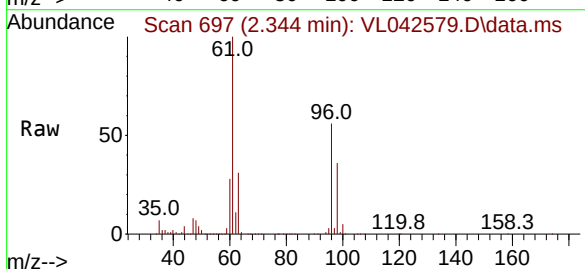
Manual Integrations
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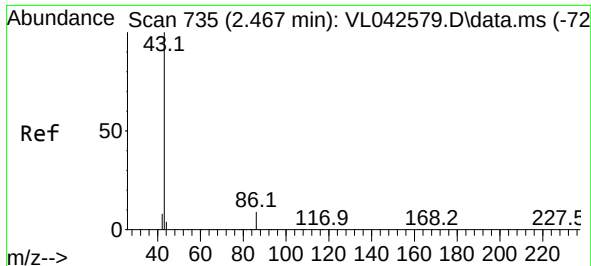
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.165 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

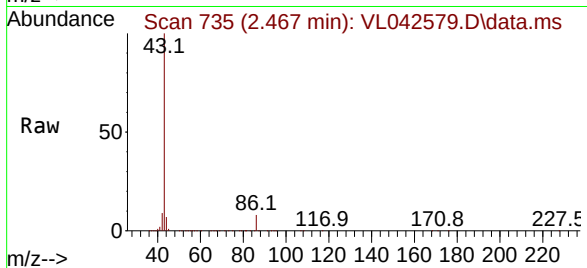
Tgt Ion: 96 Resp: 43936
 Ion Ratio Lower Upper
 96 100
 61 178.3 142.6 214.0
 98 63.7 51.0 76.4





#23
 Vinyl Acetate
 Concen: 8.954 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

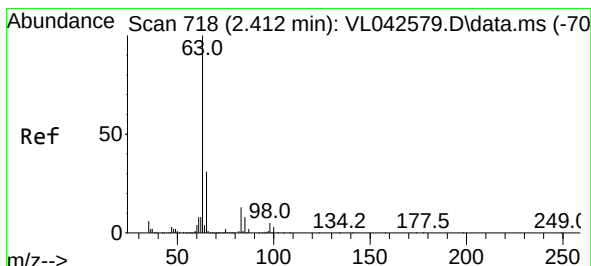
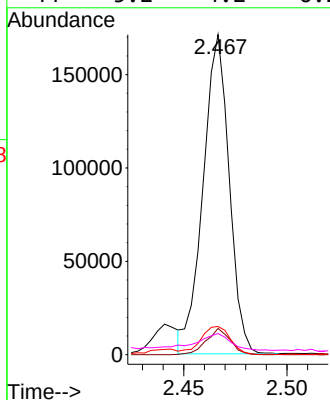
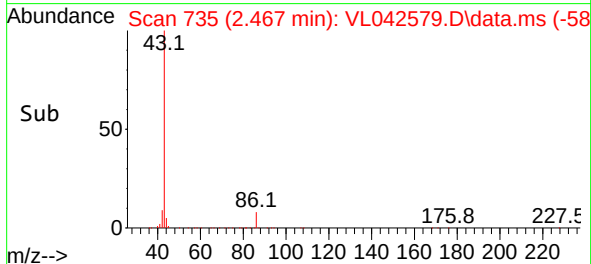
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



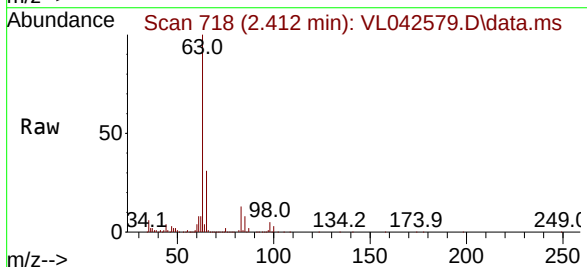
Tgt Ion: 43 Resp: 149858
 Ion Ratio Lower Upper
 43 100
 86 8.2 6.6 9.8
 42 8.7 7.0 10.4
 44 5.2 4.2 6.2

Manual Integrations
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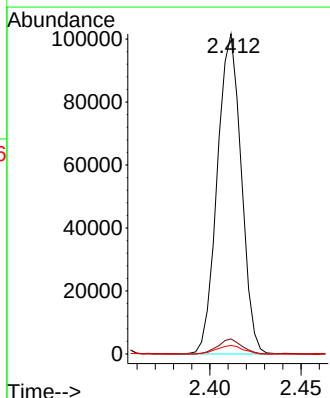
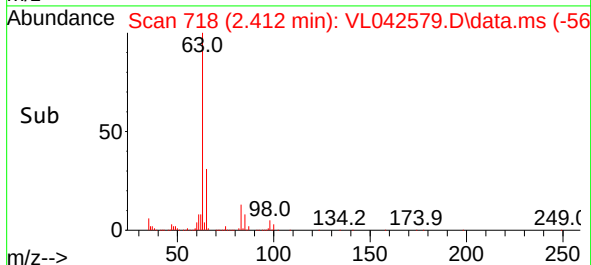
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

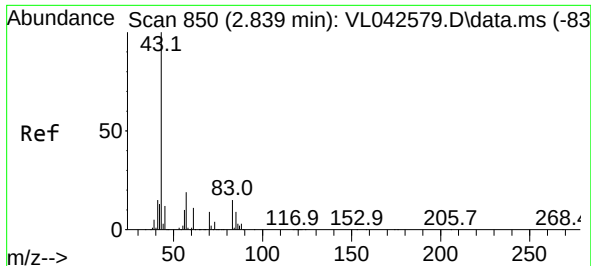


#24
 1,1-Dichloroethane
 Concen: 9.442 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09



Tgt Ion: 63 Resp: 92836
 Ion Ratio Lower Upper
 63 100
 98 4.7 2.4 7.1
 100 2.7 1.4 4.0





#25

Ethyl Acetate

Concen: 9.264 ppbv

RT: 2.839 min Scan# 850

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

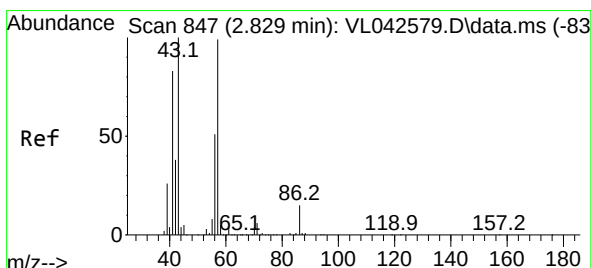
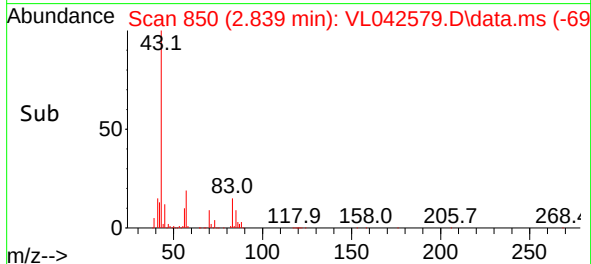
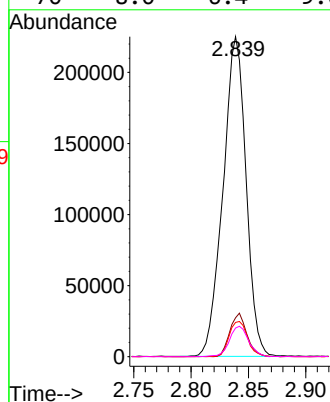
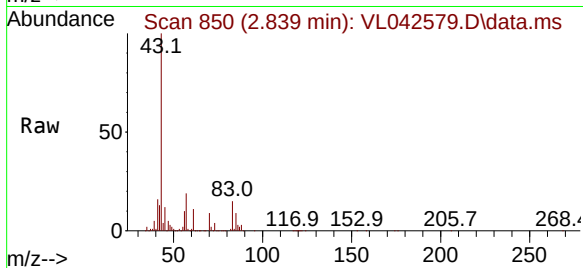
VSTDICCC010

Tgt Ion:	43	Resp:	31391
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.2
61	8.9	7.1	10.7
70	8.0	6.4	9.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#26

Hexane

Concen: 9.013 ppbv

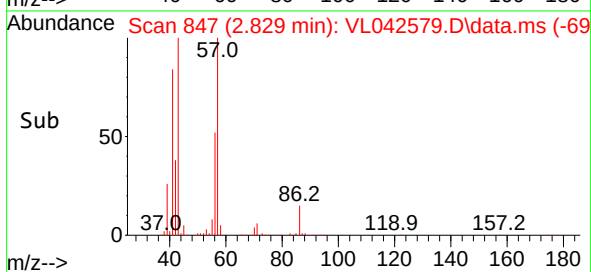
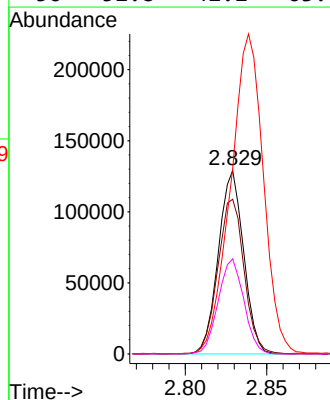
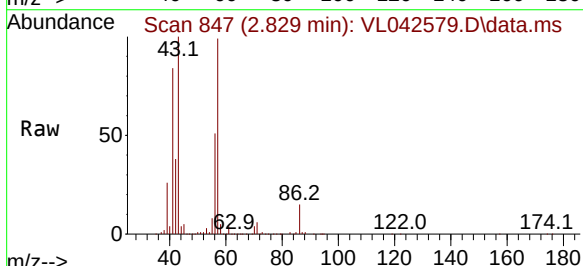
RT: 2.829 min Scan# 847

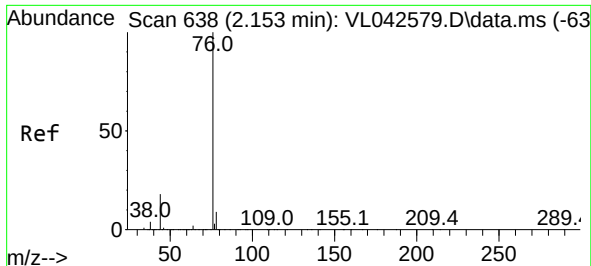
Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Tgt Ion:	57	Resp:	138771
Ion	Ratio	Lower	Upper
57	100		
41	88.3	70.6	106.0
43	226.4	181.1	271.7
56	52.8	42.2	63.4





#27

Carbon Disulfide

Concen: 9.298 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL042579.D

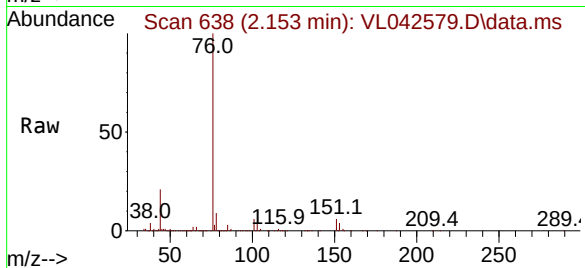
Acq: 29 May 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

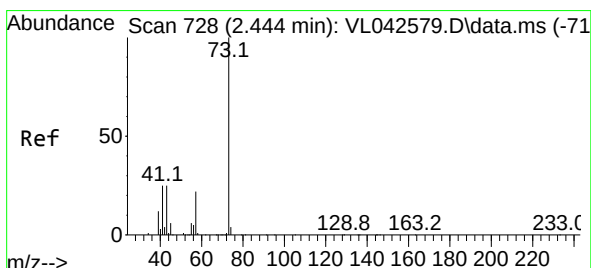
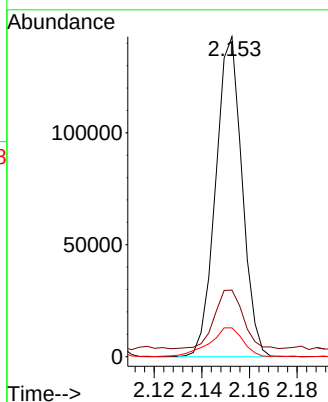
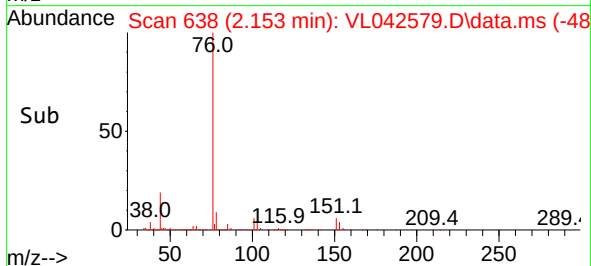


Tgt Ion:	76	Resp:	109904
Ion Ratio	100	Lower	Upper
76	100		
44	26.6	21.3	31.9
78	11.7	9.4	14.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#28

Methyl tert-Butyl Ether

Concen: 9.045 ppbv

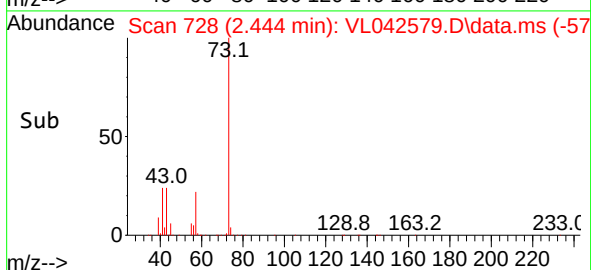
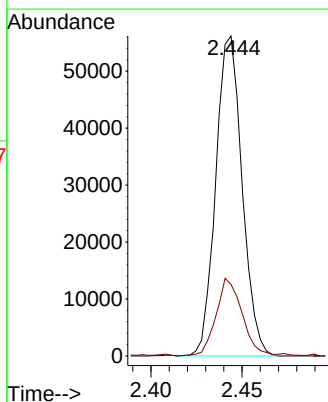
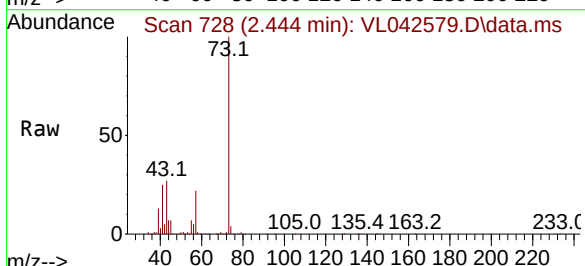
RT: 2.444 min Scan# 728

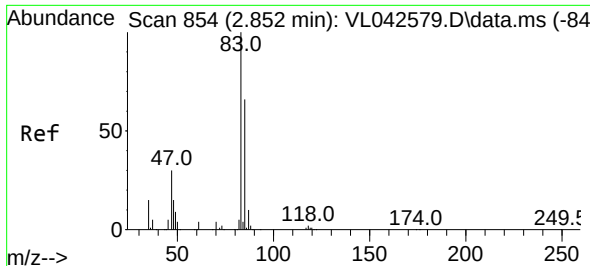
Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

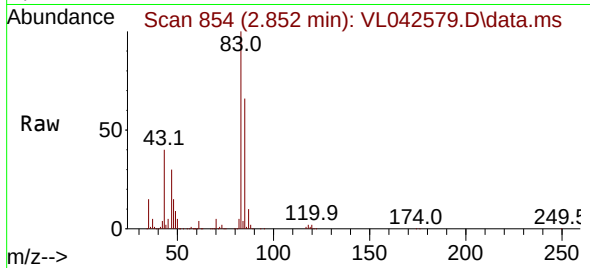
Tgt Ion:	73	Resp:	56510
Ion Ratio	100	Lower	Upper
73	100		
57	24.9	19.9	29.9





#29
Chloroform
Concen: 9.013 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

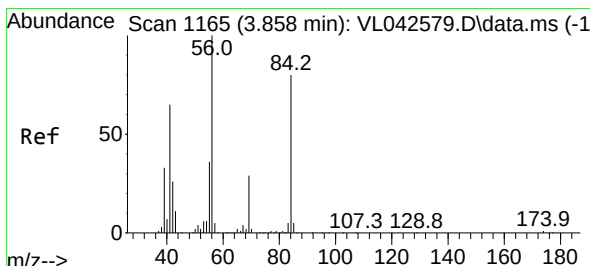
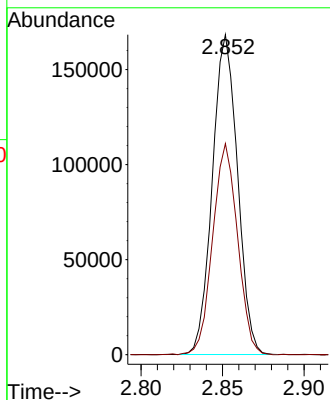
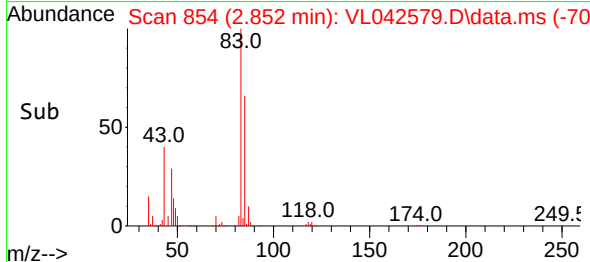
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



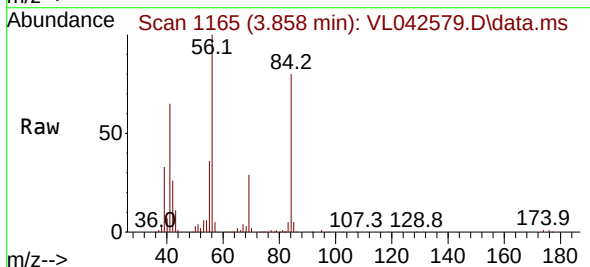
Tgt Ion: 83 Resp: 180449
Ion Ratio Lower Upper
83 100
85 66.0 52.8 79.2

Manual Integrations
APPROVED

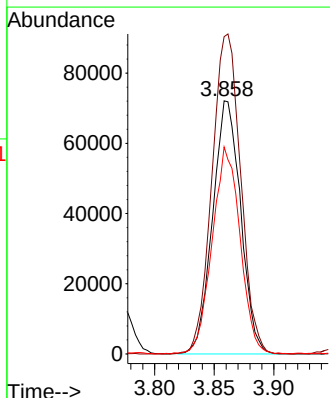
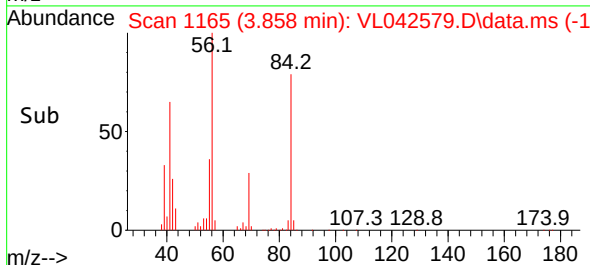
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

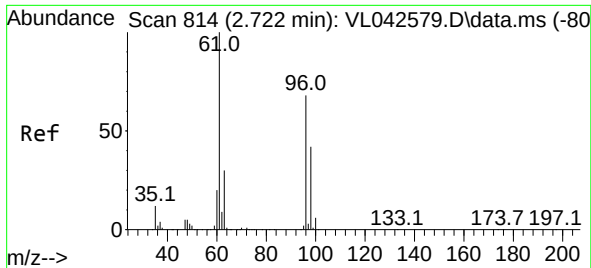


#30
Cyclohexane
Concen: 9.232 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09



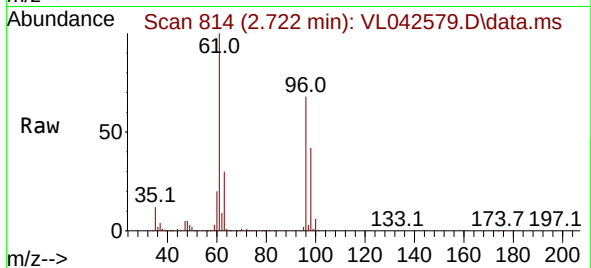
Tgt Ion: 84 Resp: 117833
Ion Ratio Lower Upper
84 100
56 129.7 103.7 155.5
41 81.2 65.1 97.7





#31
 cis-1,2-Dichloroethene
 Concen: 9.274 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

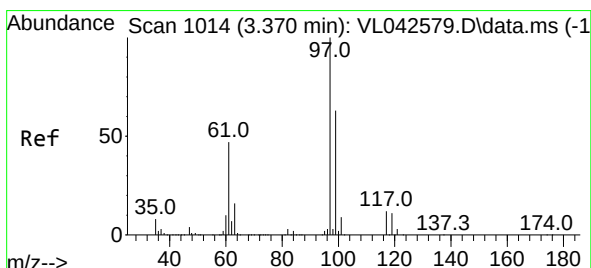
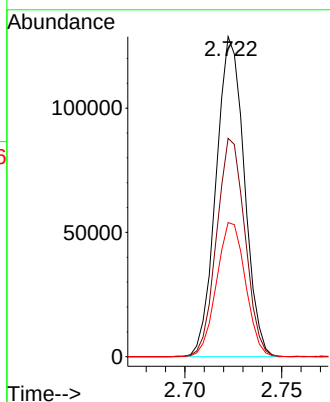
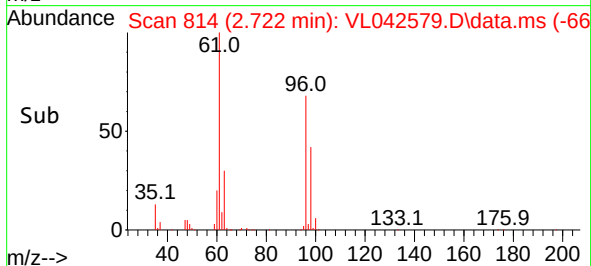
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



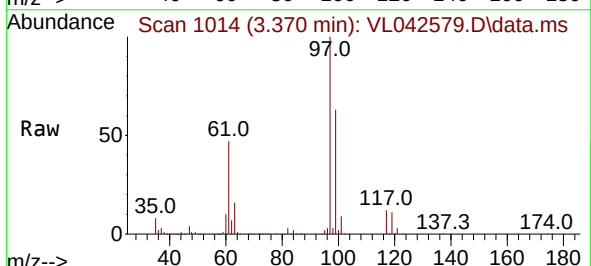
Tgt Ion: 61 Resp: 130618
 Ion Ratio Lower Upper
 61 100
 96 68.1 54.5 81.7
 98 41.8 33.4 50.2

Manual Integrations
 APPROVED

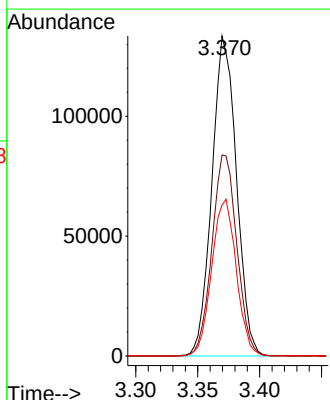
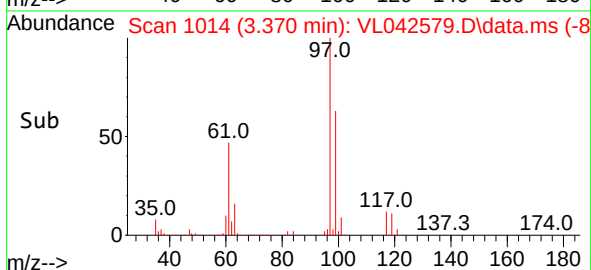
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

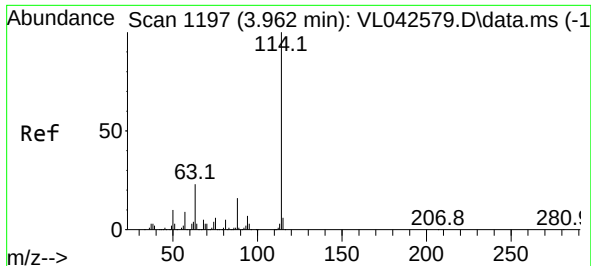


#32
 1,1,1-Trichloroethane
 Concen: 9.177 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09



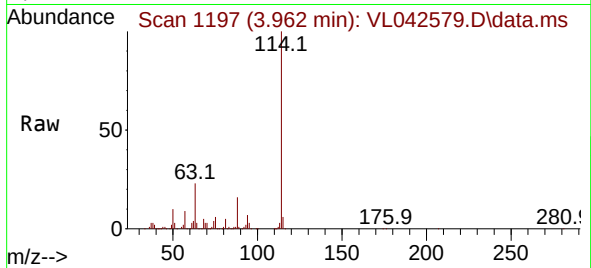
Tgt Ion: 97 Resp: 184372
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.0 76.6
 61 49.2 39.4 59.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

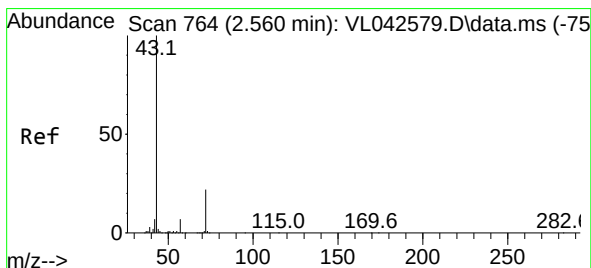
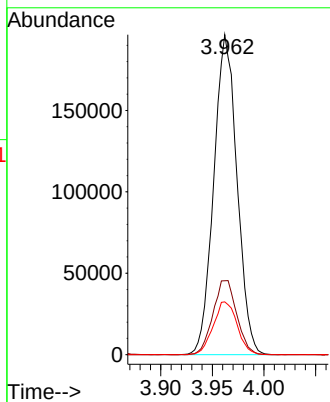
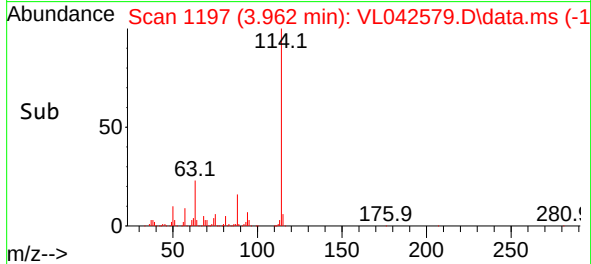
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



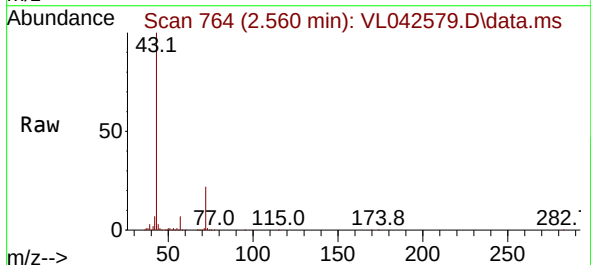
Tgt Ion:114 Resp: 307854
Ion Ratio Lower Upper
114 100
63 23.8 19.0 28.6
88 17.0 13.6 20.4

Manual Integrations
APPROVED

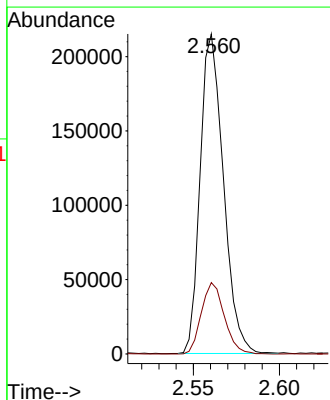
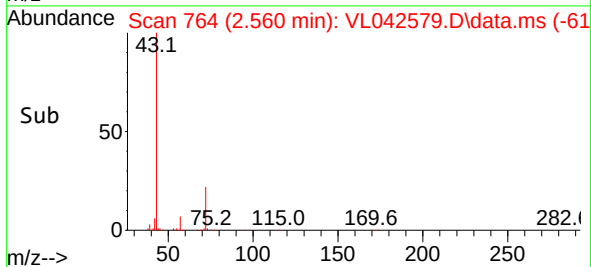
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

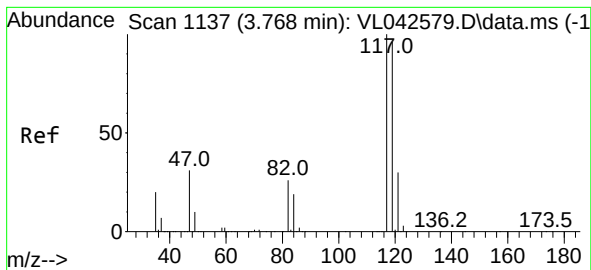


#34
2-Butanone
Concen: 9.192 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09



Tgt Ion: 43 Resp: 201796
Ion Ratio Lower Upper
43 100
72 22.1 17.7 26.5





#35

Carbon Tetrachloride

Concen: 9.132 ppbv

RT: 3.768 min Scan# 1137

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

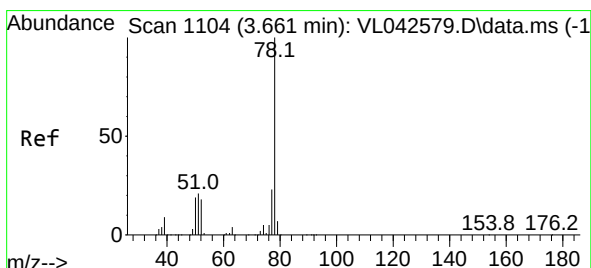
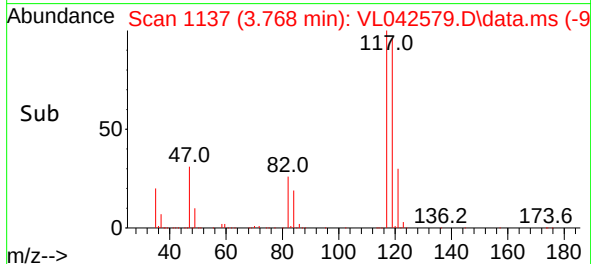
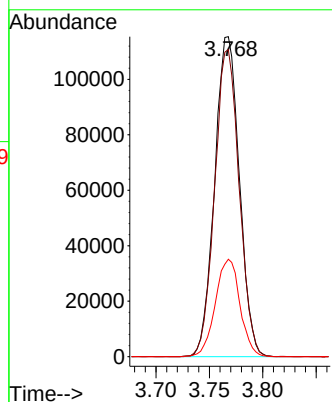
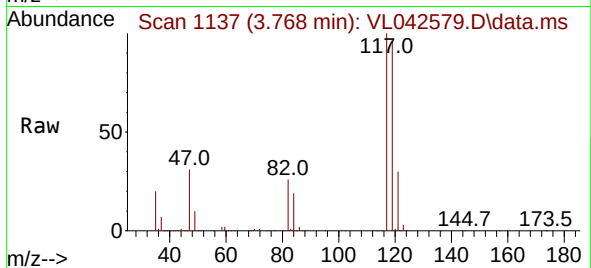
VSTDICCC010

Tgt Ion:117	Resp: 185629
Ion Ratio	Lower Upper
117 100	
119 96.0	76.8 115.2
121 30.4	24.3 36.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#36

Benzene

Concen: 9.142 ppbv

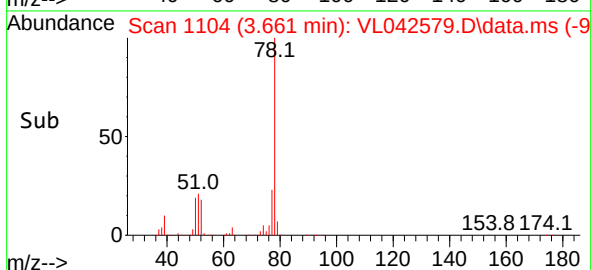
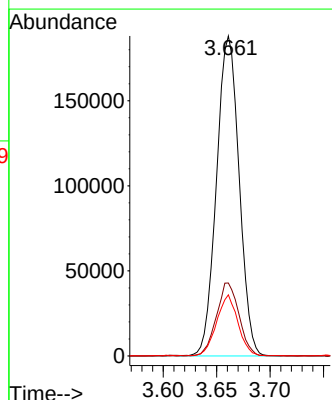
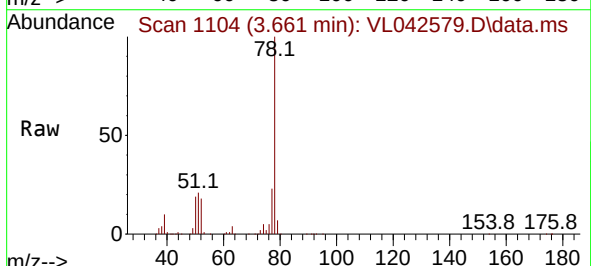
RT: 3.661 min Scan# 1104

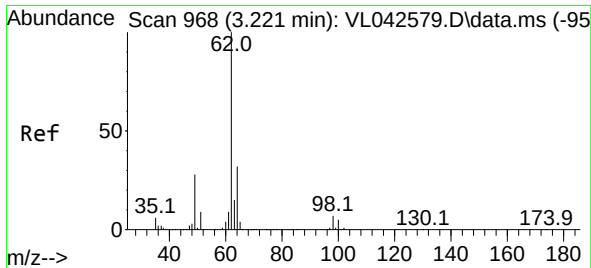
Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

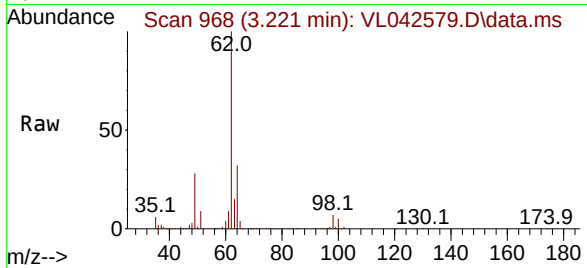
Tgt Ion: 78	Resp: 277132
Ion Ratio	Lower Upper
78 100	
77 22.7	18.2 27.2
50 19.0	15.2 22.8





#37
1,2-Dichloroethane
Concen: 9.153 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

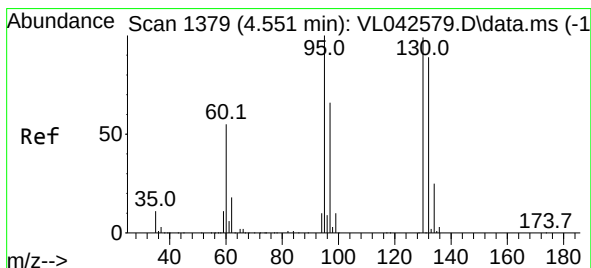
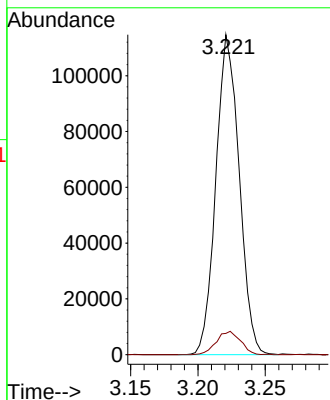
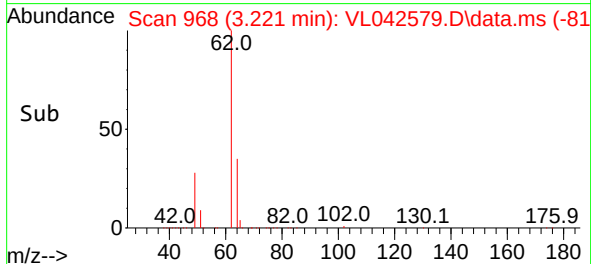
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



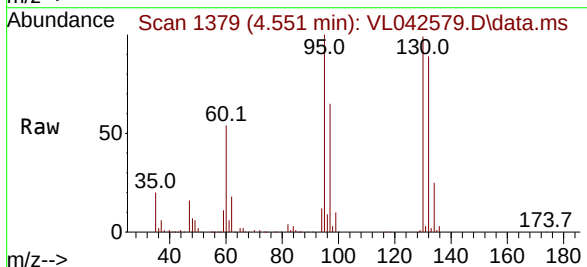
Tgt Ion: 62 Resp: 137914
Ion Ratio Lower Upper
62 100
98 7.6 6.1 9.1

Manual Integrations
APPROVED

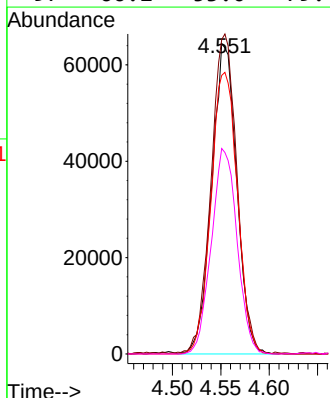
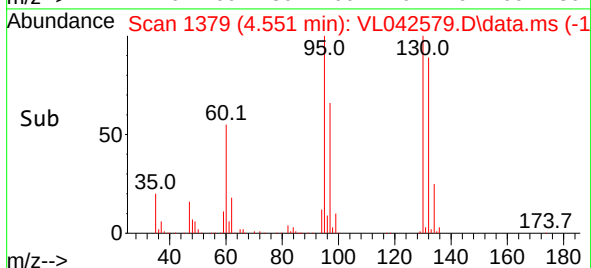
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

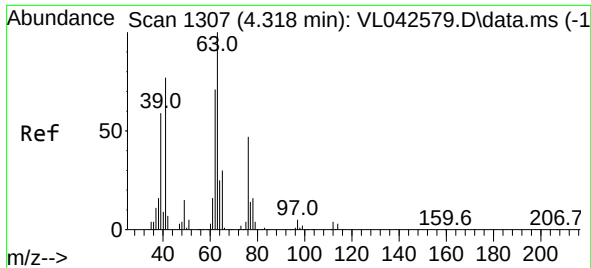


#38
Trichloroethene
Concen: 8.916 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09



Tgt Ion:130 Resp: 115772
Ion Ratio Lower Upper
130 100
95 100.8 80.6 121.0
132 89.7 71.8 107.6
97 66.2 53.0 79.4





#39

1,2-Dichloropropane

Concen: 9.029 ppbv

RT: 4.318 min Scan# 1307

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

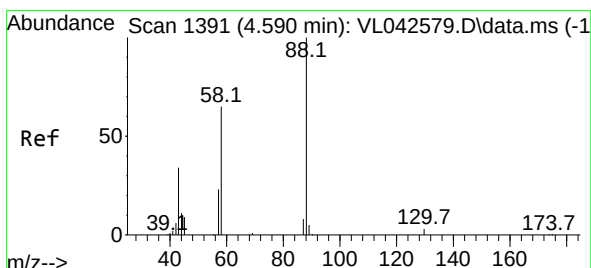
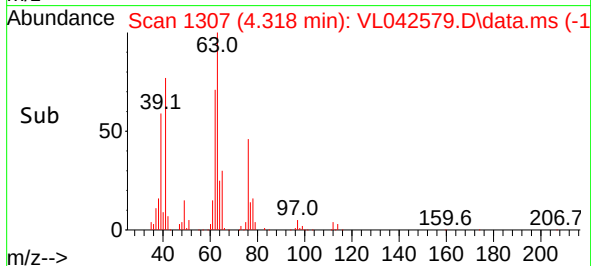
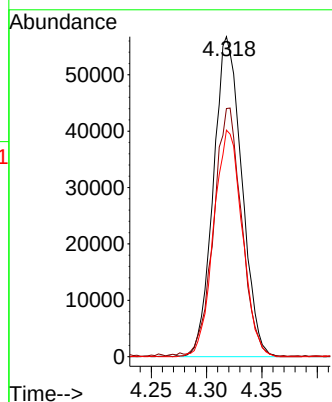
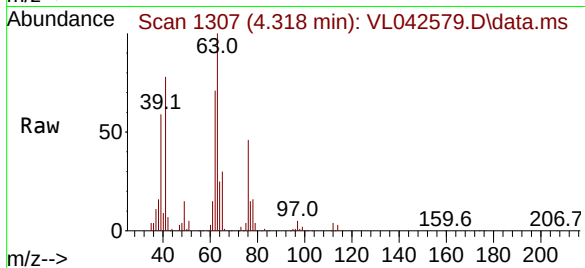
Tgt Ion: 63 Resp: 10118

Ion	Ratio	Lower	Upper
63	100		
41	77.2	61.8	92.6
62	70.8	56.6	85.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#40

1,4-Dioxane

Concen: 9.797 ppbv

RT: 4.590 min Scan# 1391

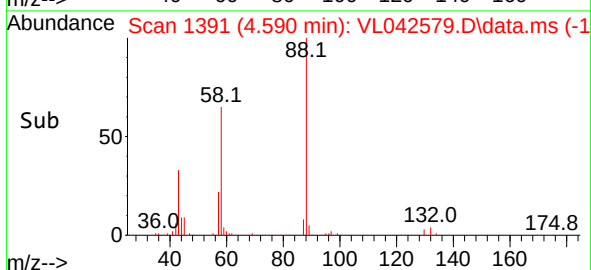
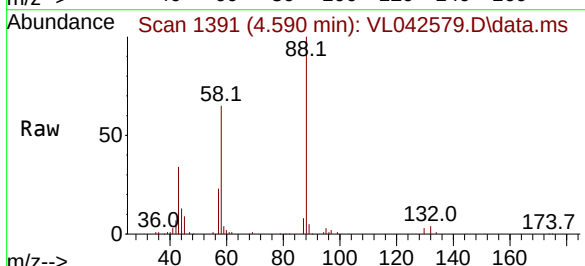
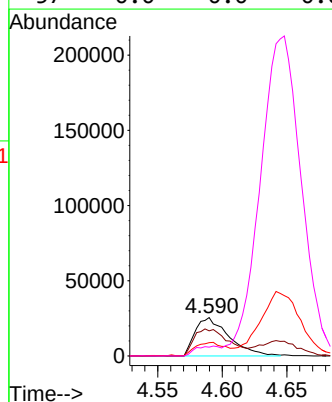
Delta R.T. 0.000 min

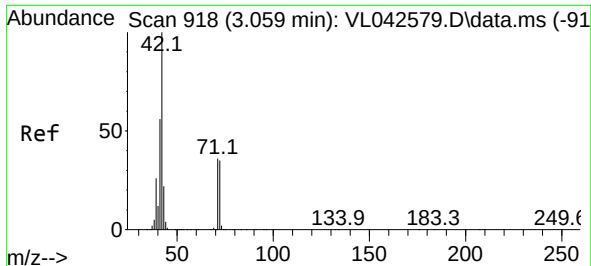
Lab File: VL042579.D

Acq: 29 May 2025 11:09

Tgt Ion: 88 Resp: 46671

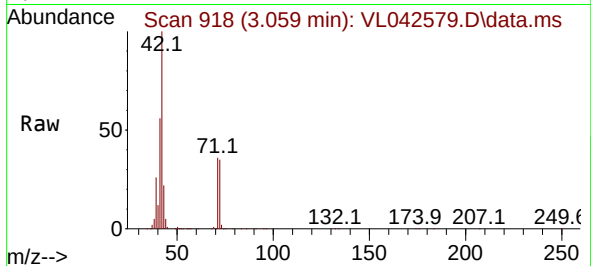
Ion	Ratio	Lower	Upper
88	100		
58	69.8	55.8	83.8
43	31.0	24.8	37.2
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 9.301 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

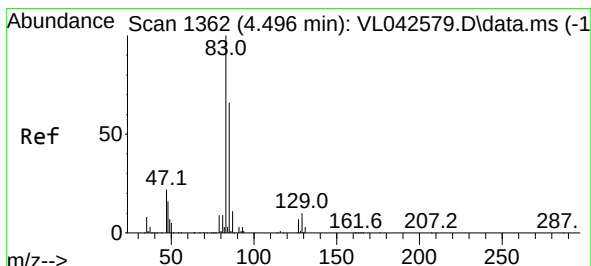
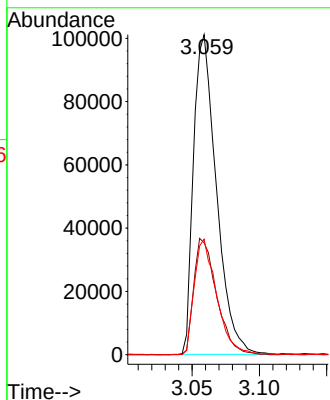
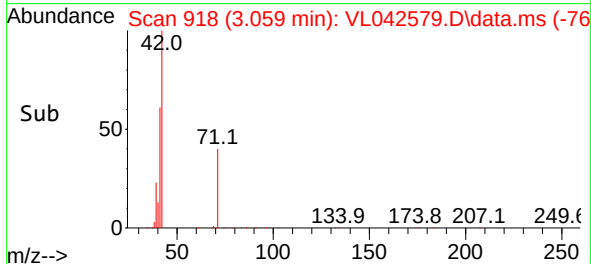
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 42 Resp: 119530
Ion Ratio Lower Upper
42 100
72 36.2 28.9 43.3
71 35.5 28.5 42.7

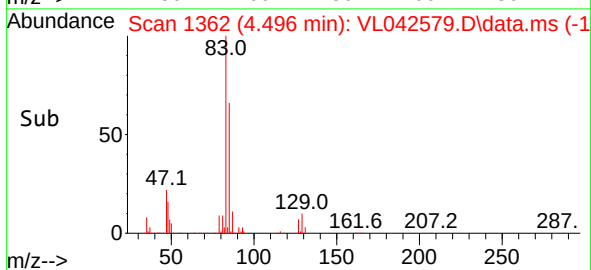
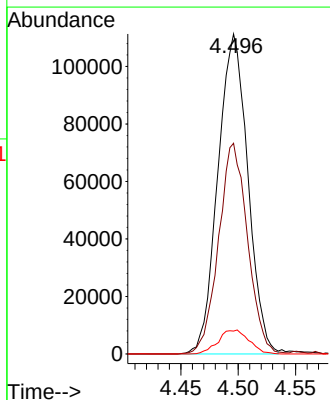
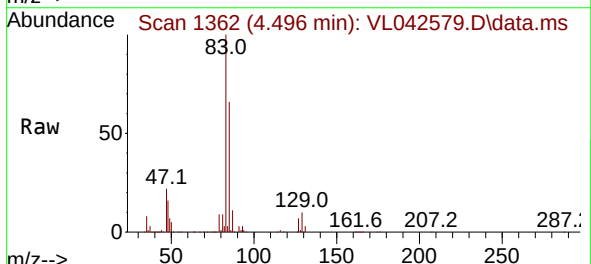
Manual Integrations
APPROVED

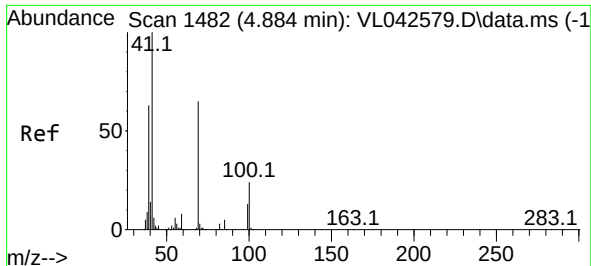
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#42
Bromodichloromethane
Concen: 9.441 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion: 83 Resp: 202026
Ion Ratio Lower Upper
83 100
85 65.9 52.7 79.1
127 7.2 5.8 8.6





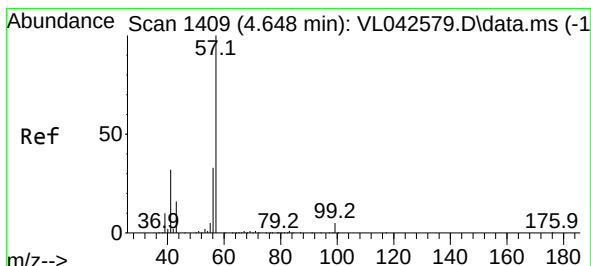
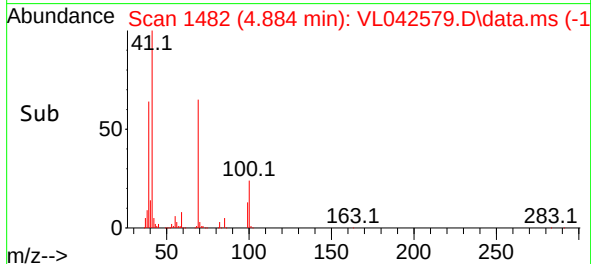
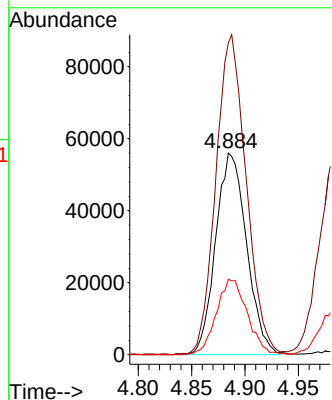
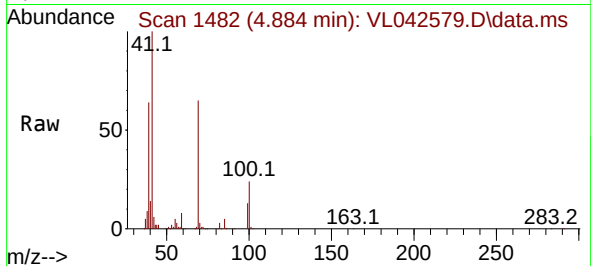
#43
Methyl Methacrylate
Concen: 9.595 ppbv
RT: 4.884 min Scan# 1482
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 69 Resp: 112740
Ion Ratio Lower Upper
69 100
41 155.4 124.6 187.0
100 37.3 29.9 44.9

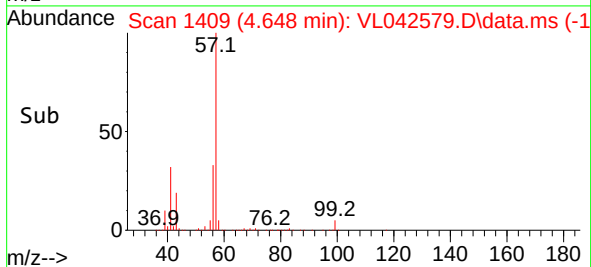
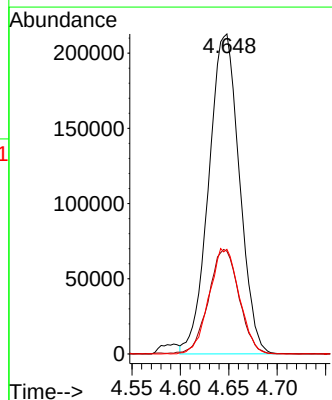
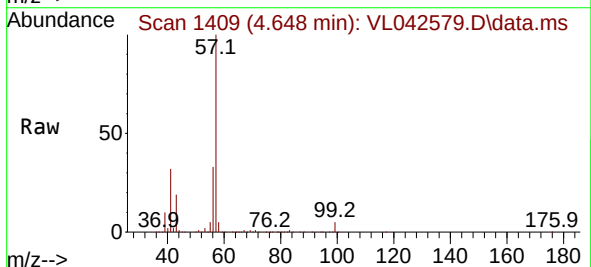
Manual Integrations
APPROVED

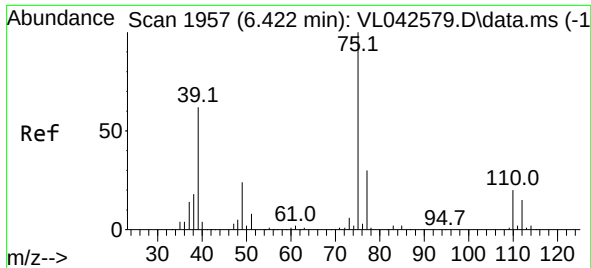
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#44
2,2,4-Trimethylpentane
Concen: 9.043 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

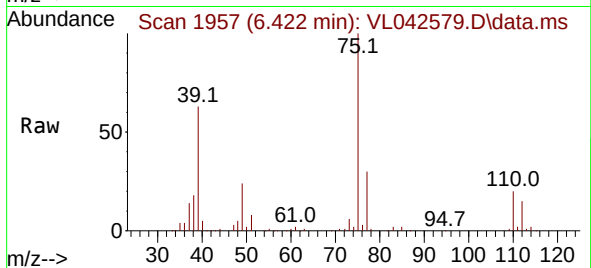
Tgt Ion: 57 Resp: 468572
Ion Ratio Lower Upper
57 100
41 32.6 26.1 39.1
56 32.4 25.9 38.9





#45
 t-1,3-Dichloropropene
 Concen: 9.700 ppbv
 RT: 6.422 min Scan# 1957
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

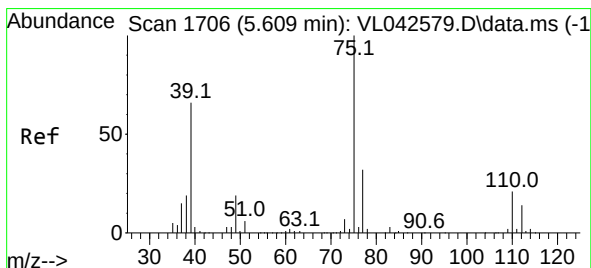
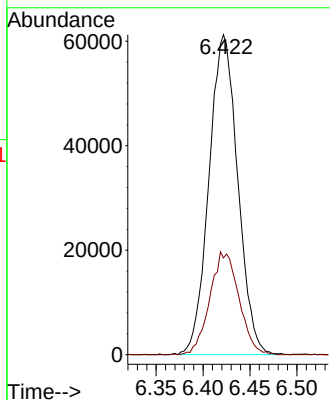
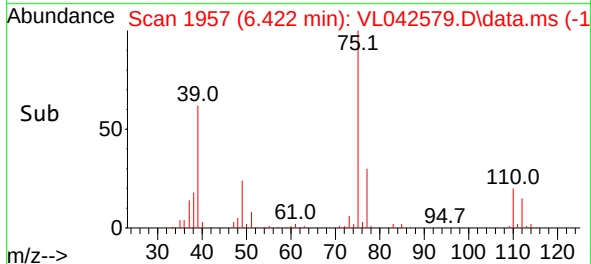
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



Tgt Ion: 75 Resp: 13061
 Ion Ratio Lower Upper
 75 100
 77 30.2 24.2 36.2

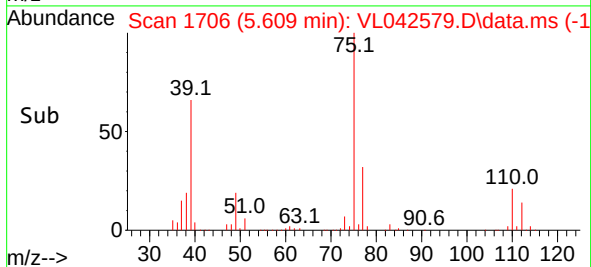
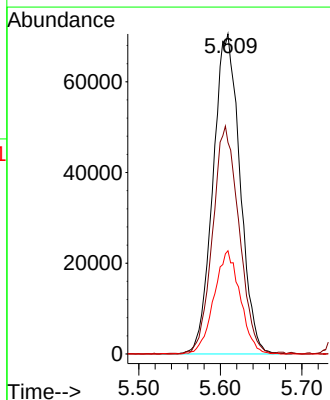
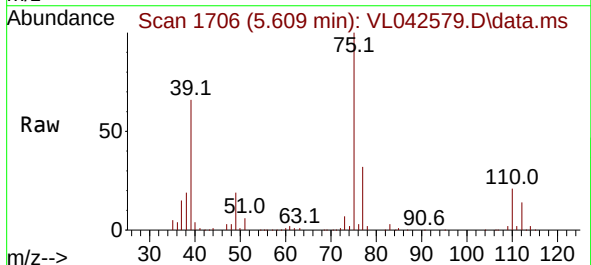
Manual Integrations
 APPROVED

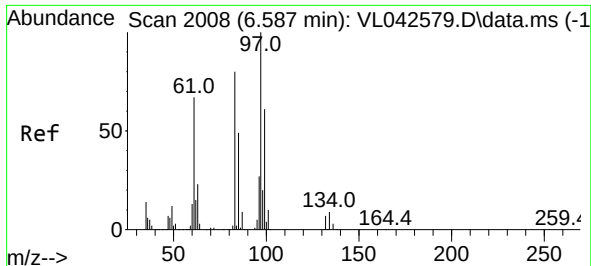
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#46
 cis-1,3-Dichloropropene
 Concen: 9.614 ppbv
 RT: 5.609 min Scan# 1706
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

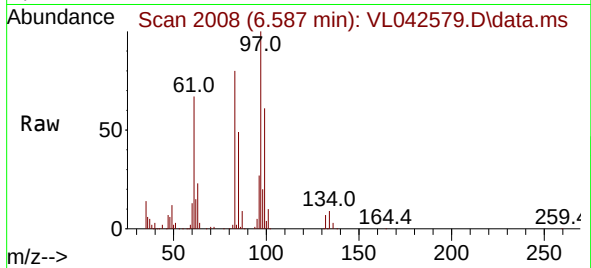
Tgt Ion: 75 Resp: 162155
 Ion Ratio Lower Upper
 75 100
 39 65.9 52.7 79.1
 77 32.3 25.8 38.8





#47
1,1,2-Trichloroethane
Concen: 9.097 ppbv
RT: 6.587 min Scan# 2008
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

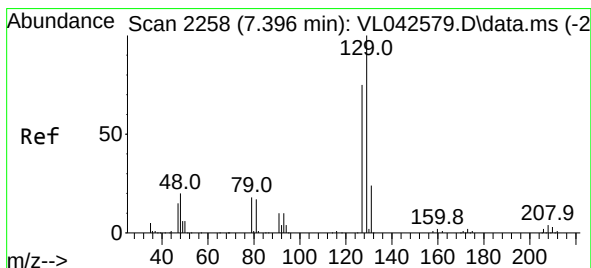
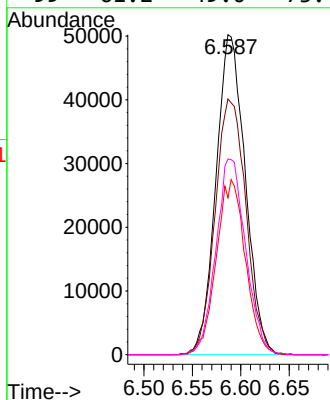
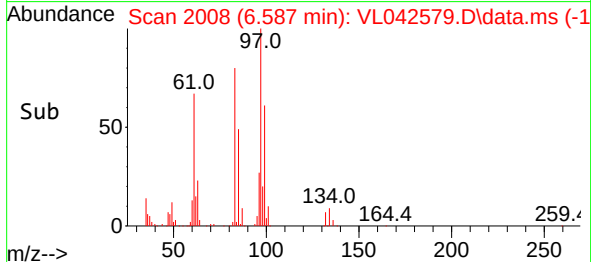
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



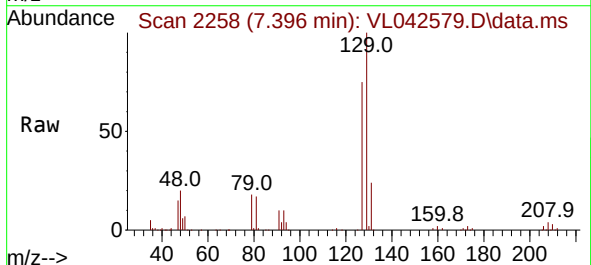
Tgt Ion: 97 Resp: 105570
Ion Ratio Lower Upper
97 100
83 79.9 63.9 95.9
85 49.0 39.2 58.8
99 61.2 49.0 73.4

Manual Integrations
APPROVED

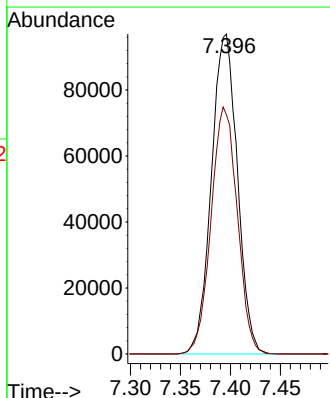
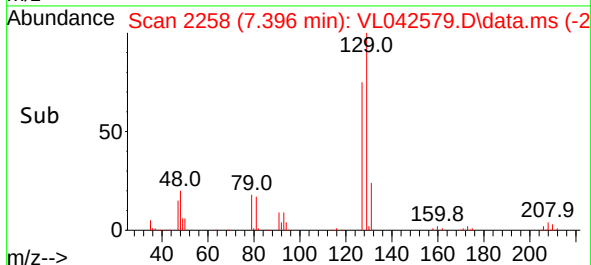
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

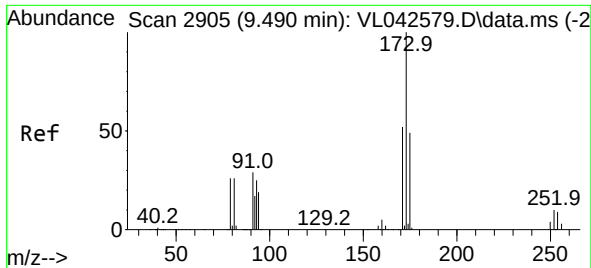


#48
Dibromochloromethane
Concen: 9.450 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09



Tgt Ion:129 Resp: 175572
Ion Ratio Lower Upper
129 100
127 77.9 39.0 116.9





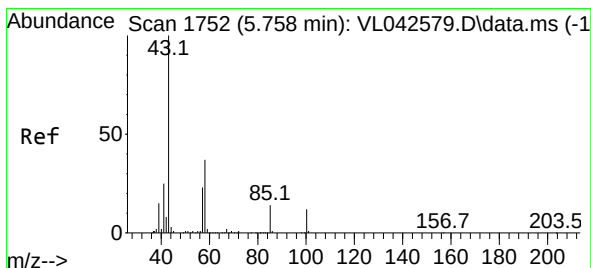
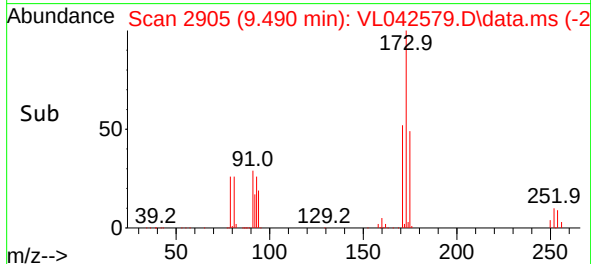
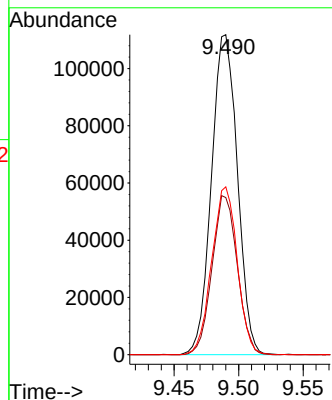
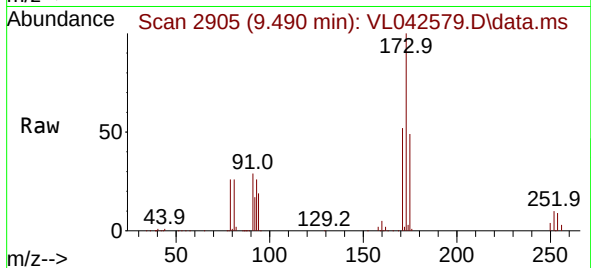
#49
Bromoform
Concen: 9.751 ppbv
RT: 9.490 min Scan# 2905
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:173 Resp: 156317
Ion Ratio Lower Upper
173 100
175 48.4 38.7 58.1
171 51.5 41.2 61.8

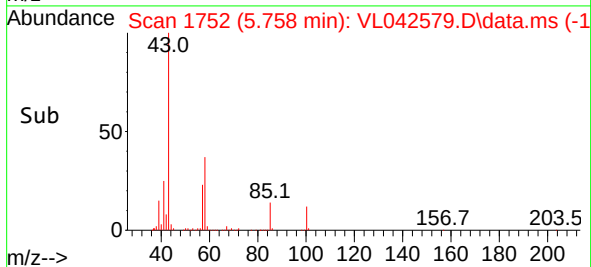
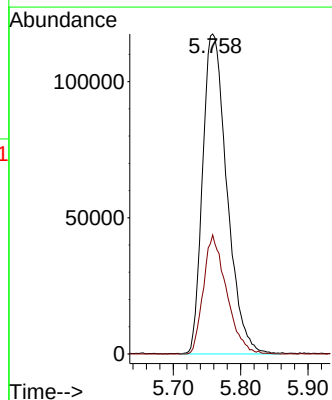
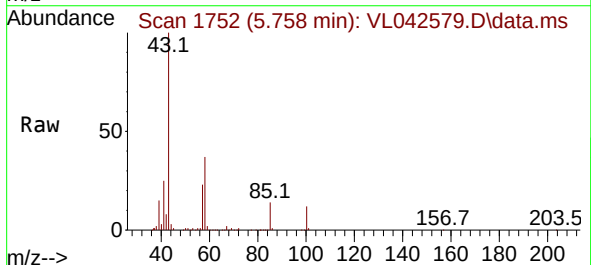
Manual Integrations
APPROVED

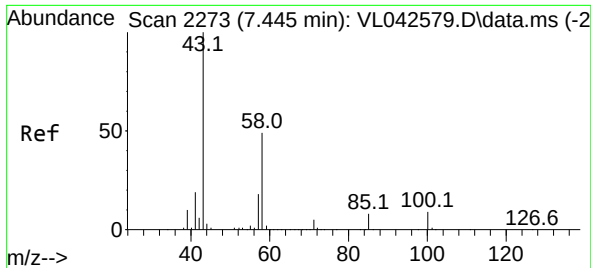
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#50
4-Methyl-2-Pentanone
Concen: 9.643 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion: 43 Resp: 294836
Ion Ratio Lower Upper
43 100
58 35.4 28.3 42.5





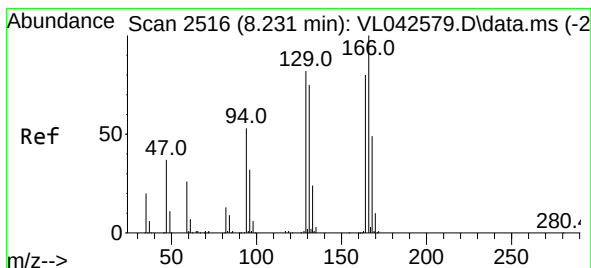
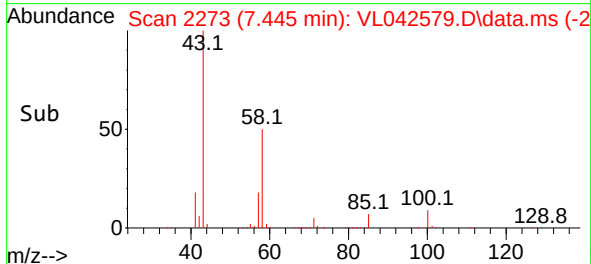
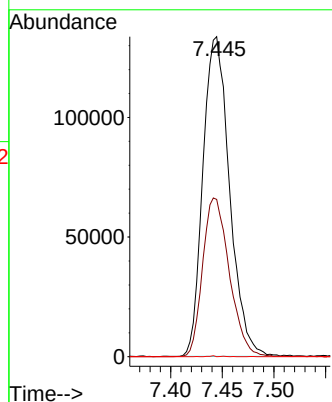
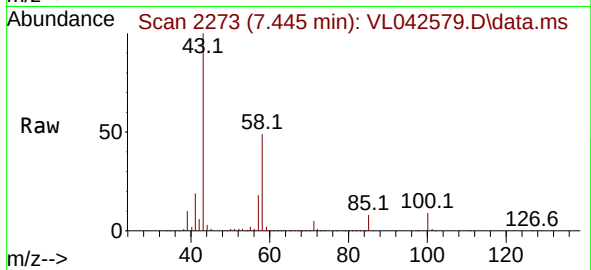
#51
2-Hexanone
Concen: 9.930 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 239820
Ion Ratio Lower Upper
43 100
58 49.9 39.9 59.9
98 0.1 0.1 0.1

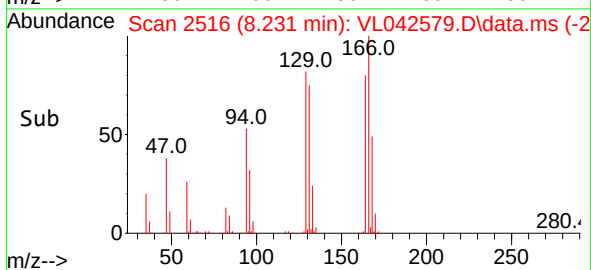
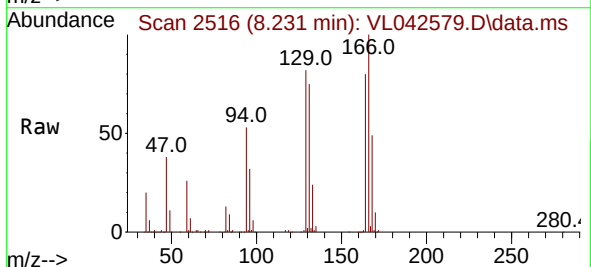
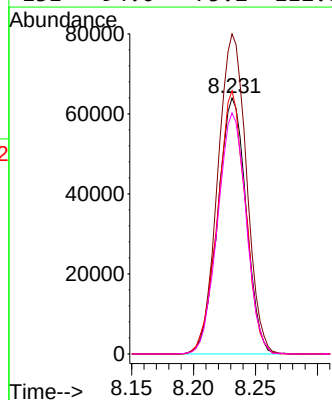
Manual Integrations
APPROVED

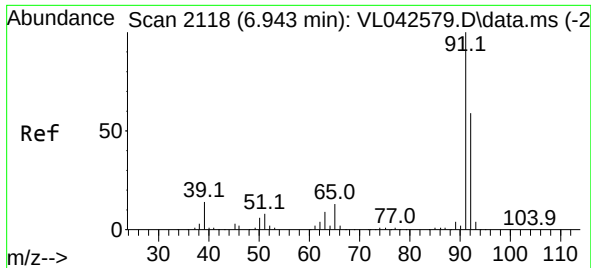
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#52
Tetrachloroethene
Concen: 9.038 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

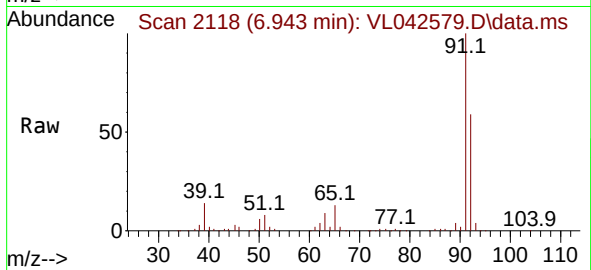
Tgt Ion:164 Resp: 102403
Ion Ratio Lower Upper
164 100
166 125.0 100.0 150.0
129 102.8 82.2 123.4
131 94.0 75.2 112.8





#53
Toluene
Concen: 9.264 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

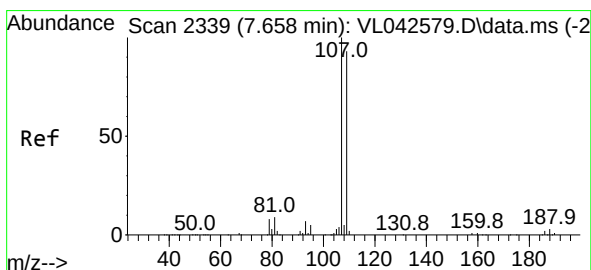
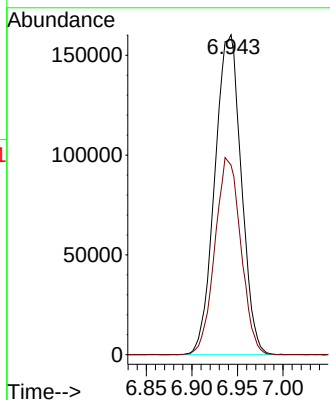
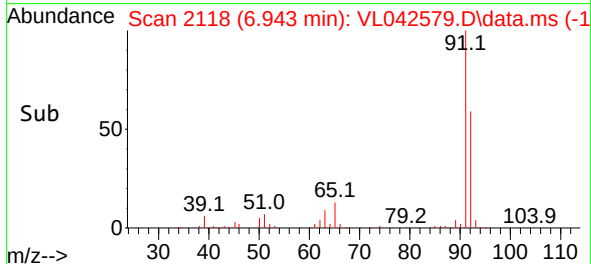
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



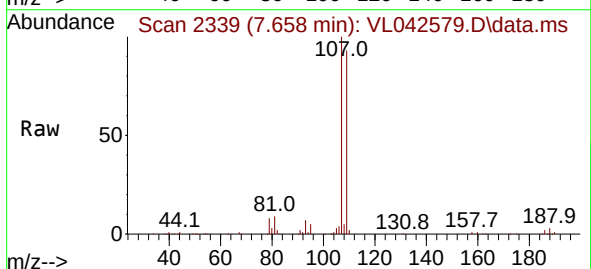
Tgt Ion: 91 Resp: 32460
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4

Manual Integrations
APPROVED

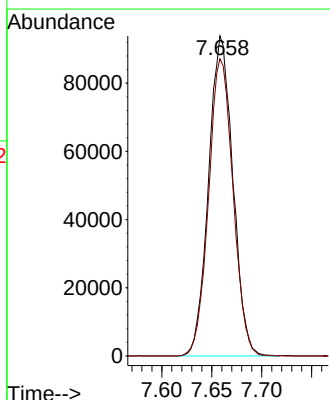
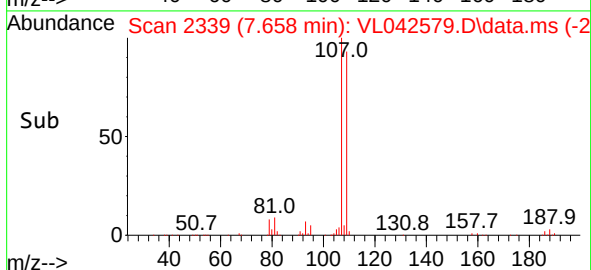
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

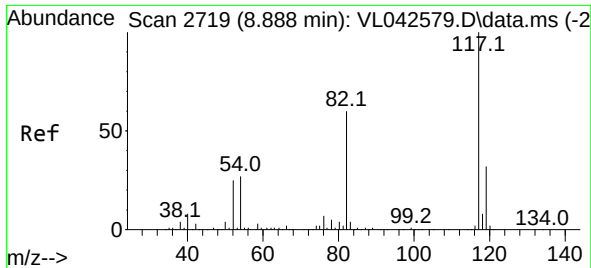


#54
1,2-Dibromoethane
Concen: 9.231 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09



Tgt Ion:107 Resp: 158813
Ion Ratio Lower Upper
107 100
109 92.9 74.3 111.5





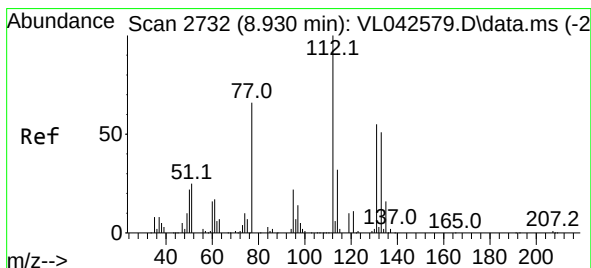
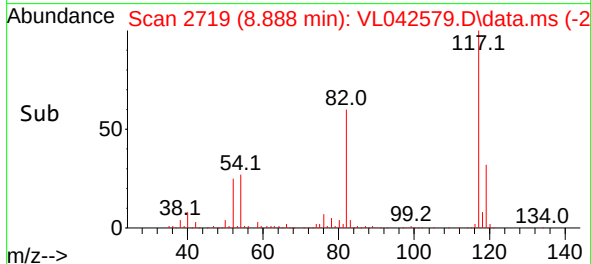
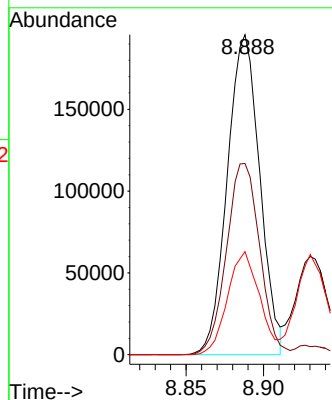
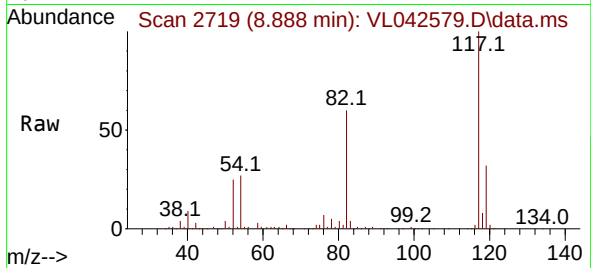
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:117 Resp: 285844
Ion Ratio Lower Upper
117 100
82 64.0 51.2 76.8
119 32.9 26.3 39.5

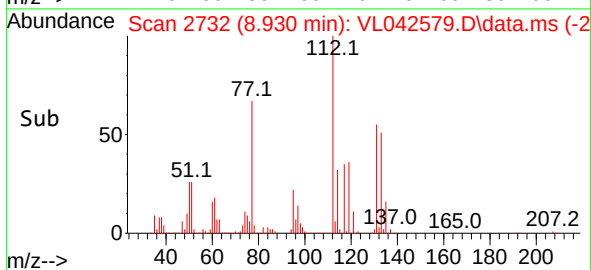
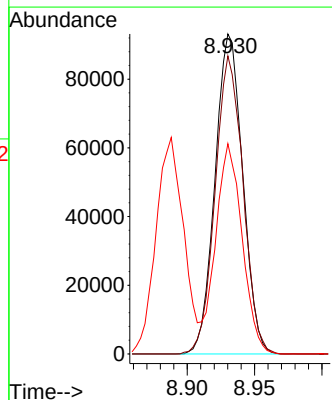
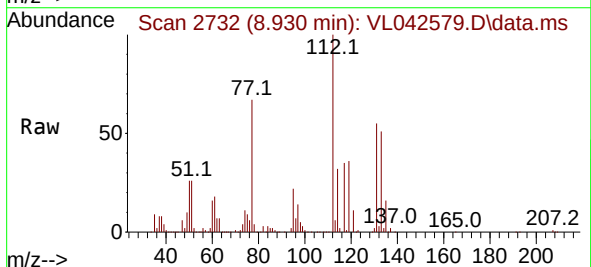
Manual Integrations
APPROVED

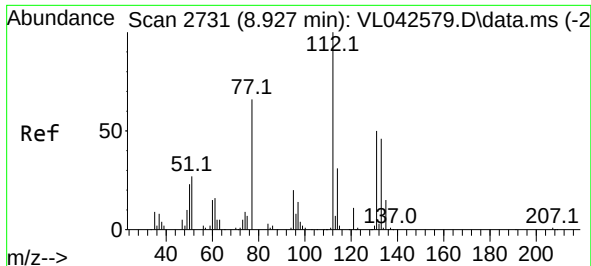
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.279 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion:131 Resp: 133368
Ion Ratio Lower Upper
131 100
133 93.8 75.0 112.6
119 63.5 50.8 76.2





#57

Chlorobenzene

Concen: 8.938 ppbv

RT: 8.927 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

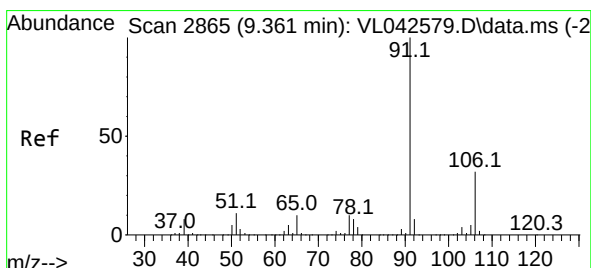
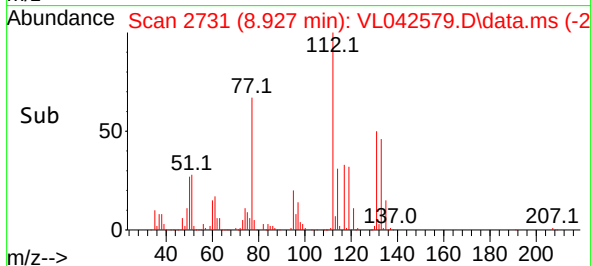
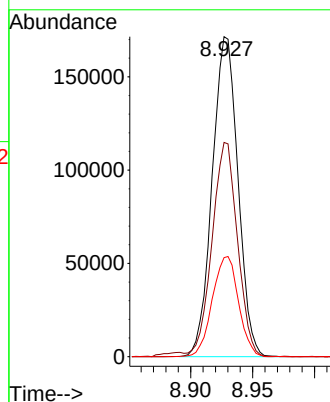
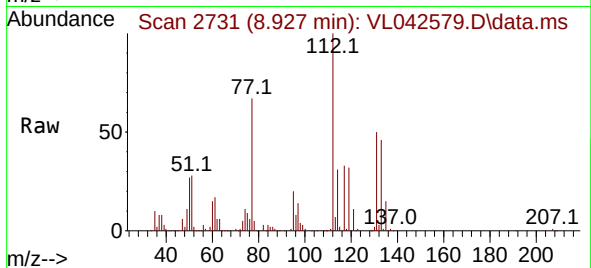
VSTDICCC010

Tgt Ion:	112	Resp:	24808
Ion Ratio	Lower	Upper	
112	100		
77	66.9	53.5	80.3
114	30.9	27.8	34.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#58

Ethyl Benzene

Concen: 9.121 ppbv

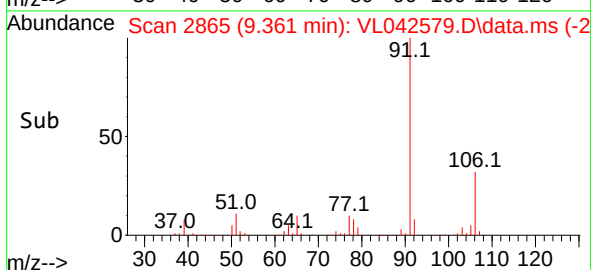
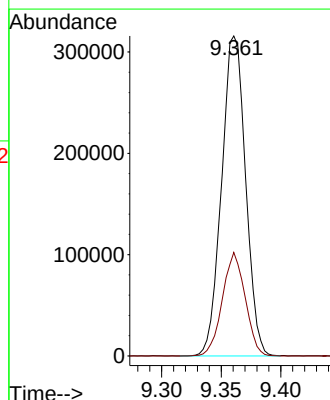
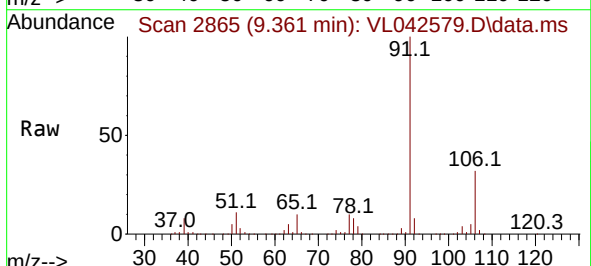
RT: 9.361 min Scan# 2865

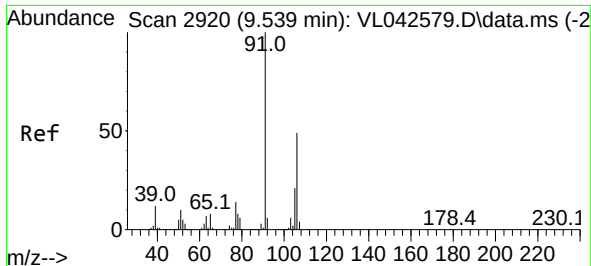
Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Tgt Ion:	91	Resp:	442268
Ion Ratio	Lower	Upper	
91	100		
106	32.4	25.9	38.9





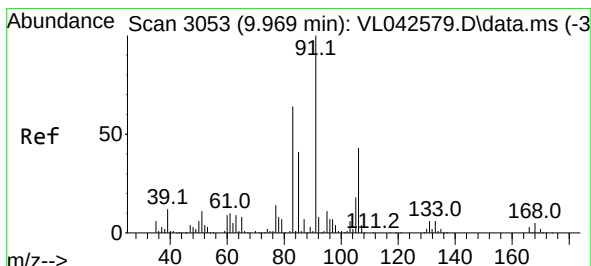
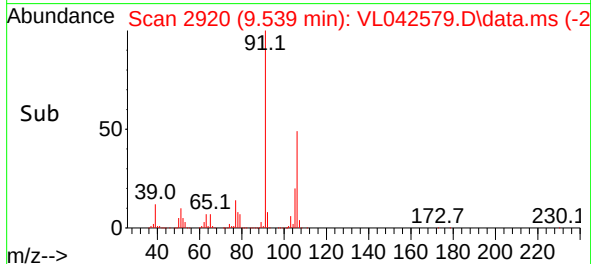
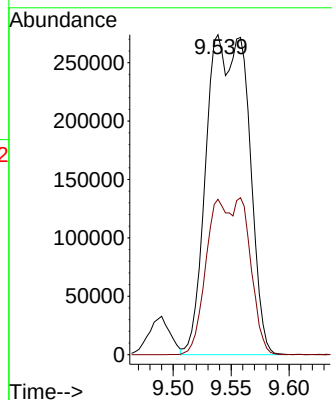
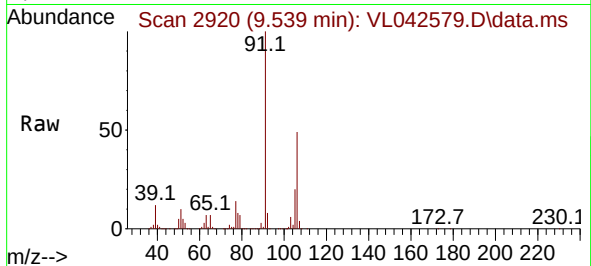
#59
m/p-Xylene
Concen: 18.156 ppbv m
RT: 9.539 min Scan# 2920
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 692934
Ion Ratio Lower Upper
91 100
106 0.0 38.8 58.2

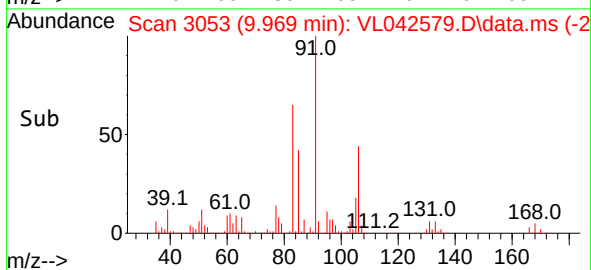
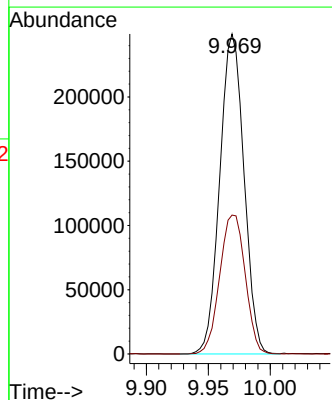
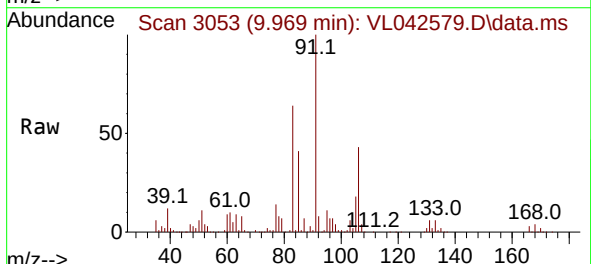
Manual Integrations
APPROVED

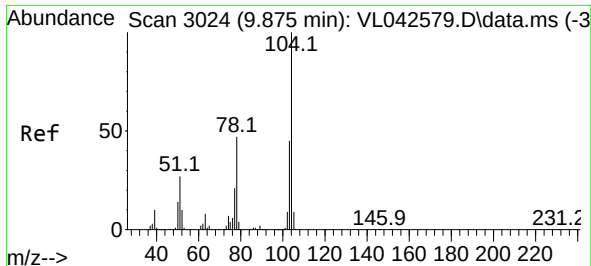
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#60
o-Xylene
Concen: 8.919 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

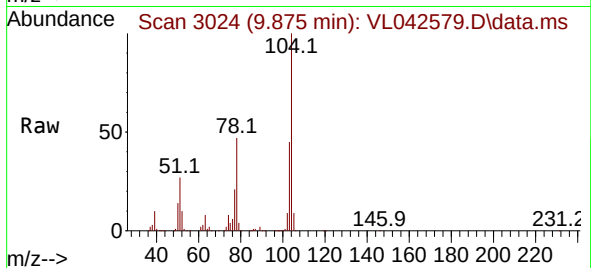
Tgt Ion: 91 Resp: 339403
Ion Ratio Lower Upper
91 100
106 45.7 22.9 68.5





#61
Styrene
Concen: 9.374 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

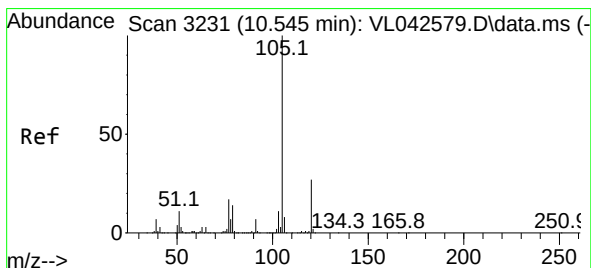
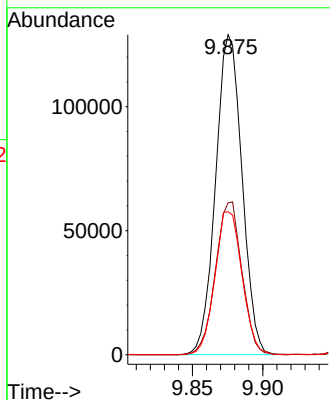
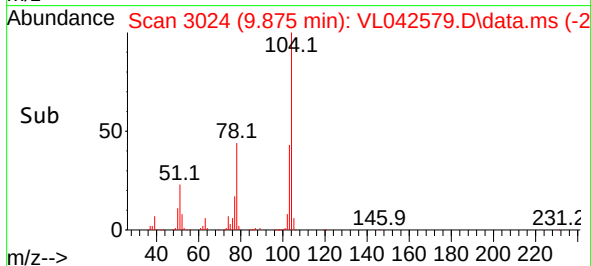
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



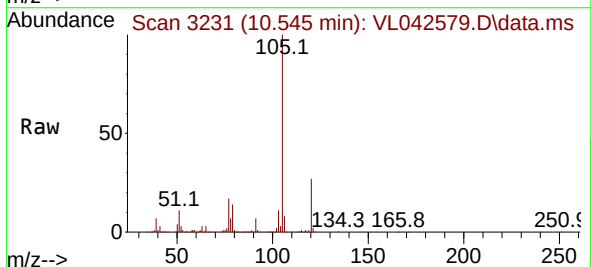
Tgt Ion:104 Resp: 168674
Ion Ratio Lower Upper
104 100
78 47.8 38.2 57.4
103 45.9 36.7 55.1

Manual Integrations
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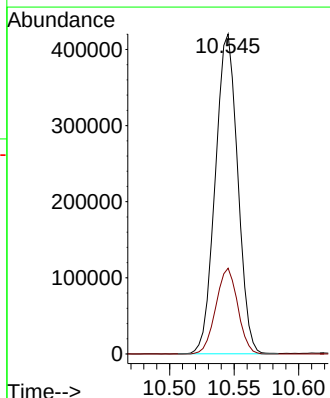
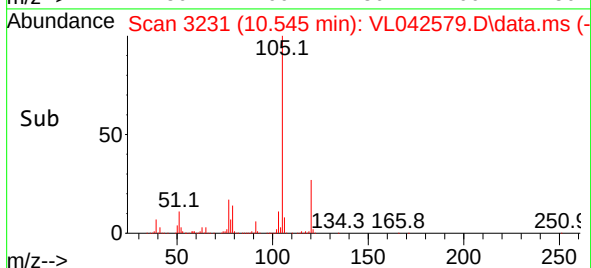
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

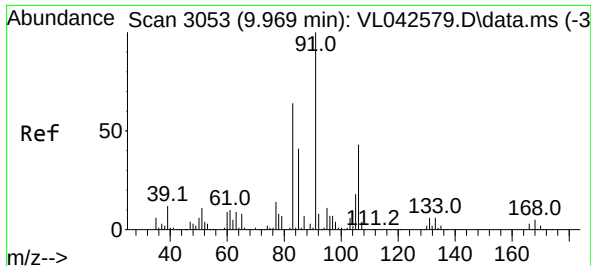


#62
Isopropylbenzene
Concen: 9.010 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09



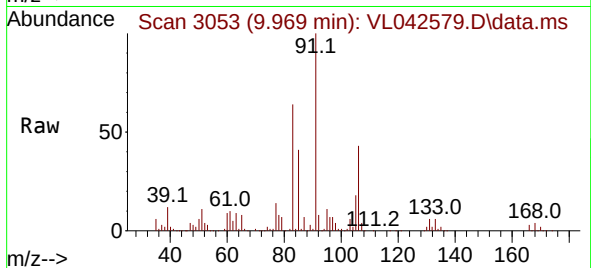
Tgt Ion:105 Resp: 506586
Ion Ratio Lower Upper
105 100
120 26.1 20.9 31.3





#63
1,1,2,2-Tetrachloroethane
Concen: 8.536 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

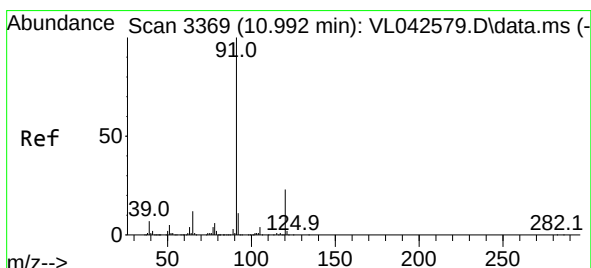
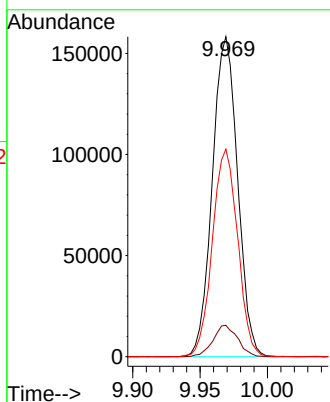
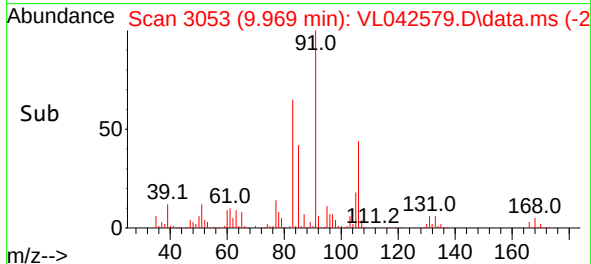
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



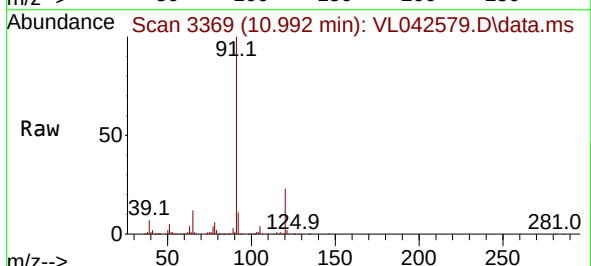
Tgt Ion: 83 Resp: 206564
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 64.9 32.5 97.4

Manual Integrations
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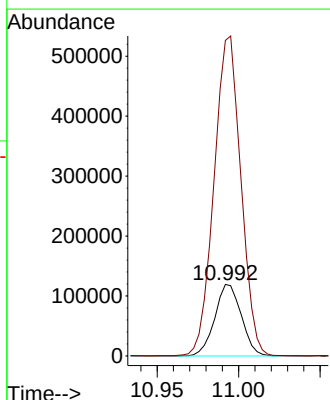
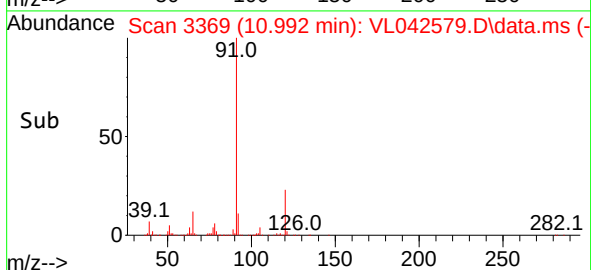
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

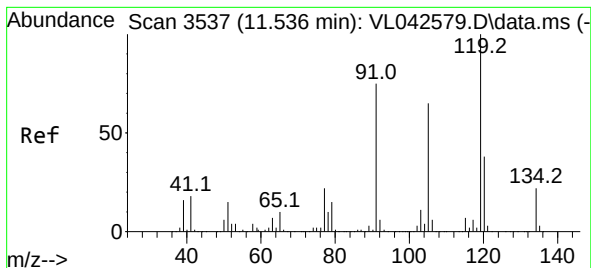


#64
n-propylbenzene
Concen: 8.936 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09



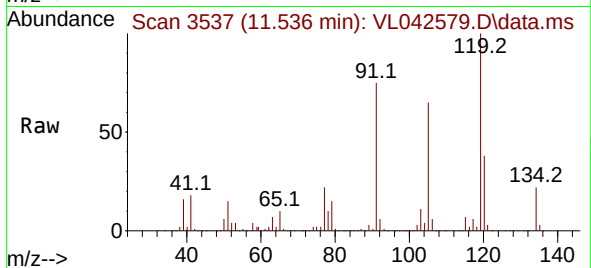
Tgt Ion:120 Resp: 134675
Ion Ratio Lower Upper
120 100
91 455.6 363.0 544.6





#65
tert-Butylbenzene
Concen: 8.833 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

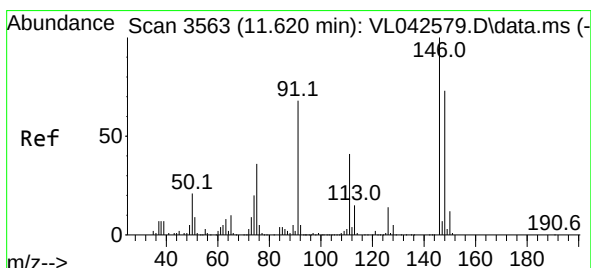
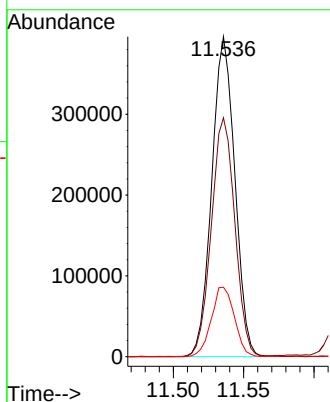
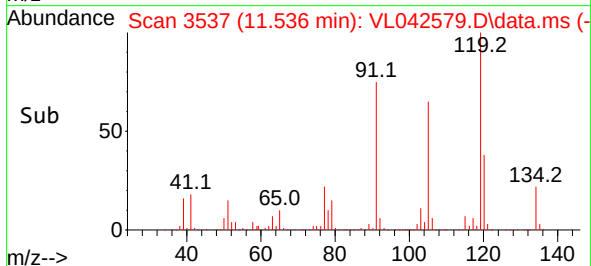
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 119 Resp: 450639
Ion Ratio Lower Upper
119 100
91 76.4 61.1 91.7
134 21.8 17.4 26.2

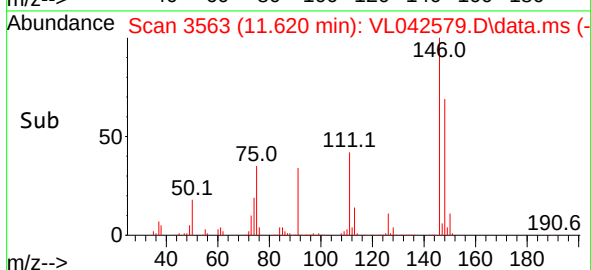
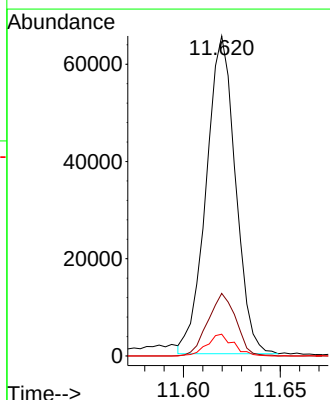
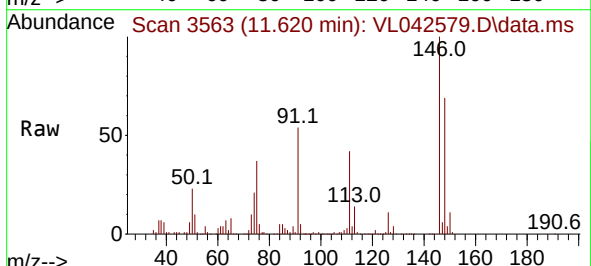
Manual Integrations
APPROVED

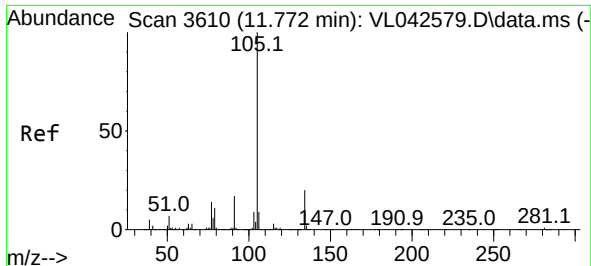
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#66
Benzyl Chloride
Concen: 10.457 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

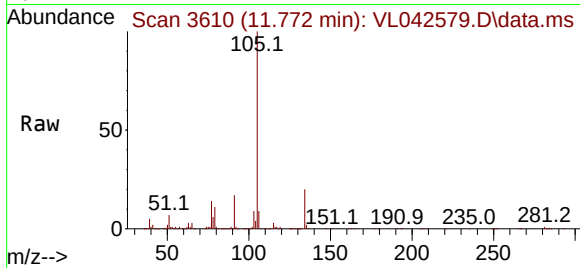
Tgt Ion: 91 Resp: 68801
Ion Ratio Lower Upper
91 100
126 18.9 15.1 22.7
128 6.2 5.0 7.6





#67
 sec-Butylbenzene
 Concen: 8.749 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

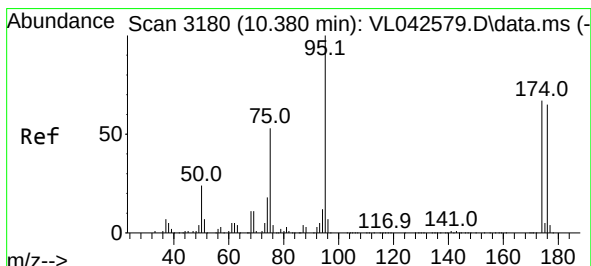
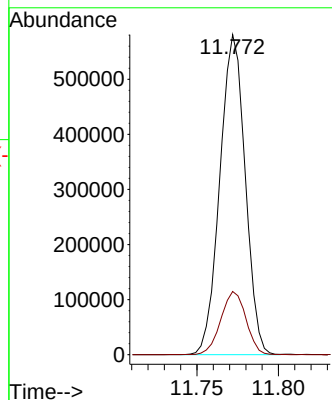
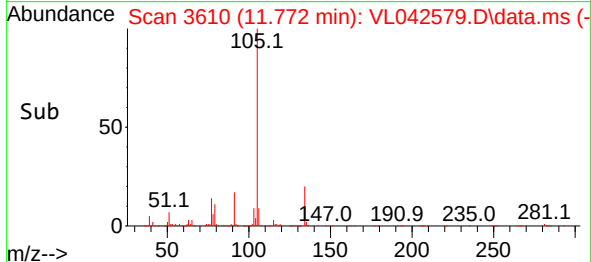
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion: 105 Resp: 62756
 Ion Ratio Lower Upper
 105 100
 134 19.7 15.8 23.6

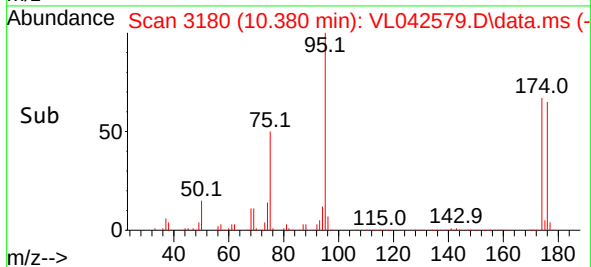
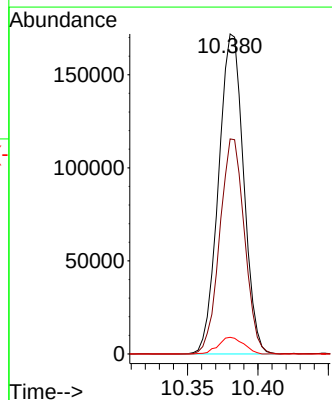
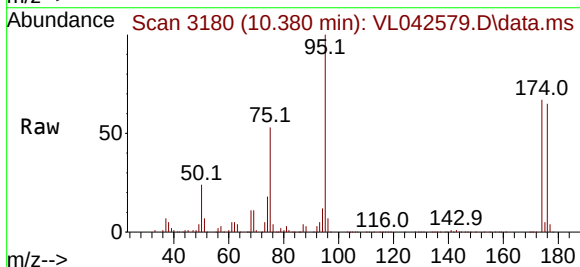
Manual Integrations
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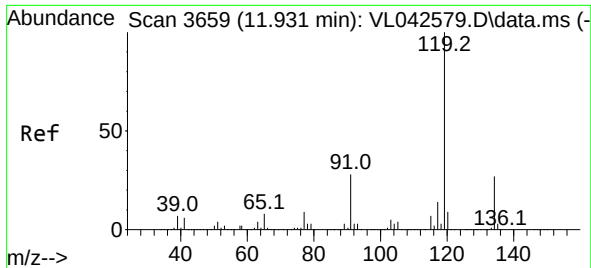
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.929 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

Tgt Ion: 95 Resp: 212758
 Ion Ratio Lower Upper
 95 100
 174 66.4 53.1 79.7
 175 5.2 4.2 6.2





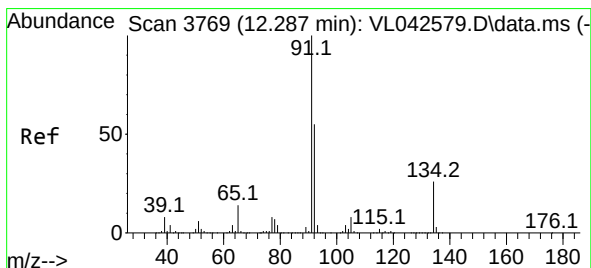
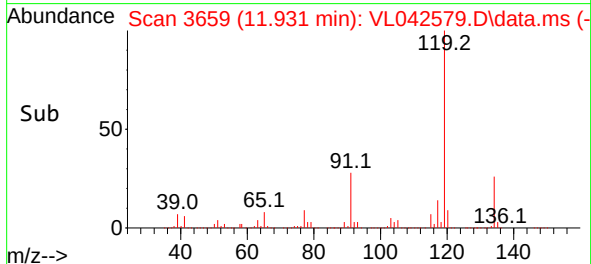
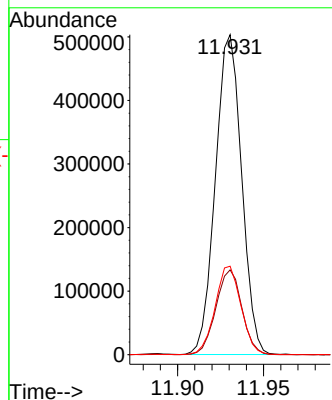
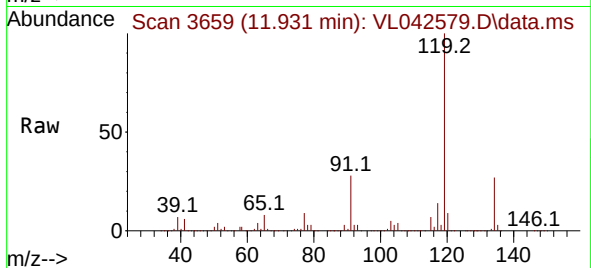
#69
p-Isopropyltoluene
Concen: 8.889 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

Tgt Ion: 119 Resp: 53396
Ion Ratio Lower Upper
119 100
134 26.4 21.1 31.7
91 27.5 21.9 32.9

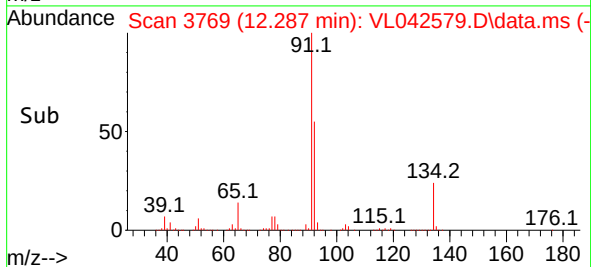
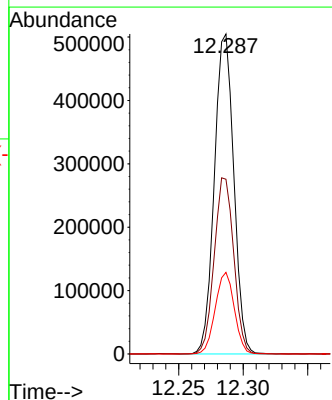
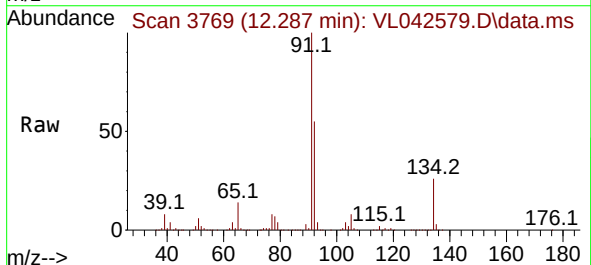
Manual Integrations
APPROVED

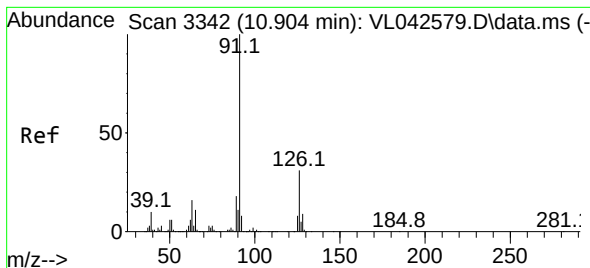
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#70
n-Butylbenzene
Concen: 8.881 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion: 91 Resp: 526566
Ion Ratio Lower Upper
91 100
92 55.5 44.4 66.6
134 25.1 20.1 30.1





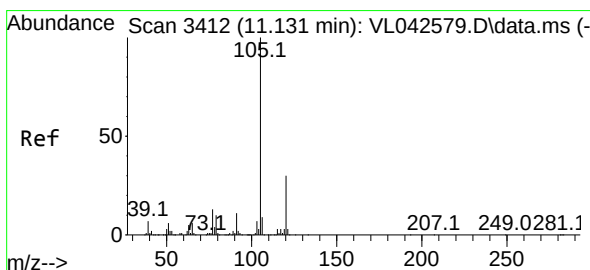
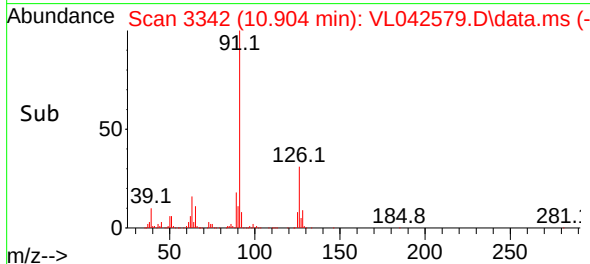
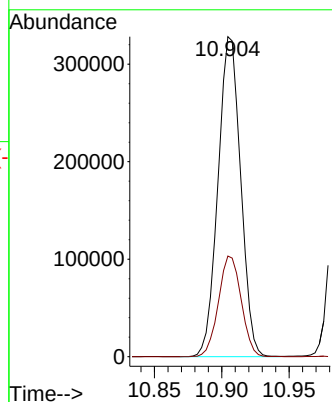
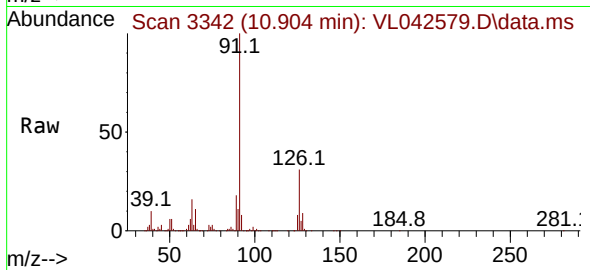
#71
2-Chlorotoluene
Concen: 8.952 ppbv
RT: 10.904 min Scan# 3342
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 38388
Ion Ratio Lower Upper
91 100
126 31.5 12.6 50.4

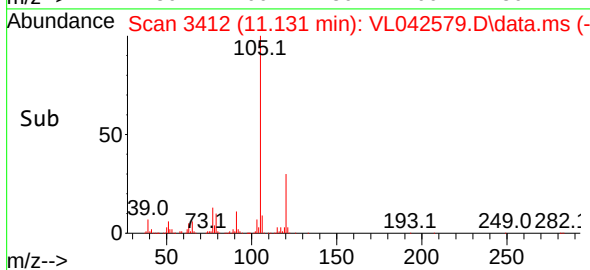
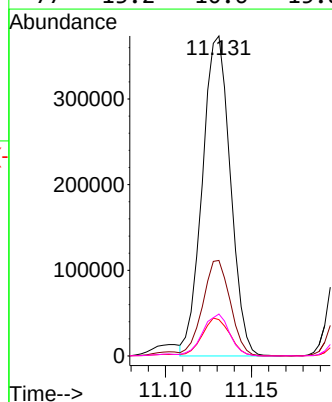
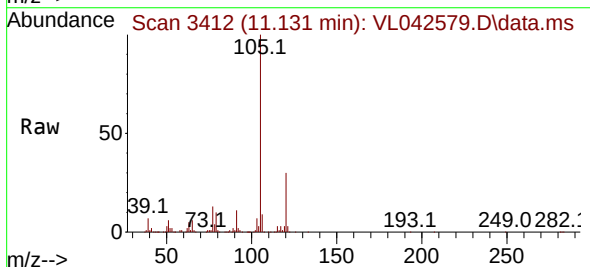
Manual Integrations
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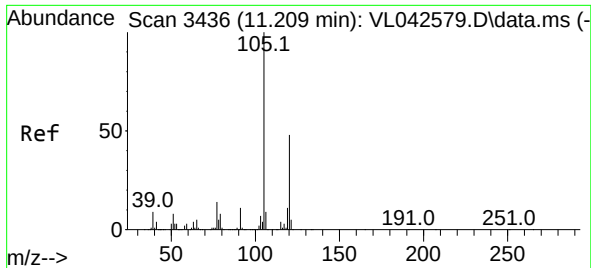
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#72
4-Ethyltoluene
Concen: 8.920 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

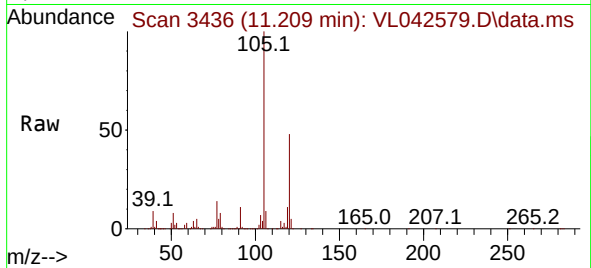
Tgt Ion:105 Resp: 423227
Ion Ratio Lower Upper
105 100
120 30.7 24.6 36.8
91 12.0 9.6 14.4
77 13.2 10.6 15.8





#73
1,3,5-Trimethylbenzene
Concen: 8.989 ppbv
RT: 11.209 min Scan# 3436
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

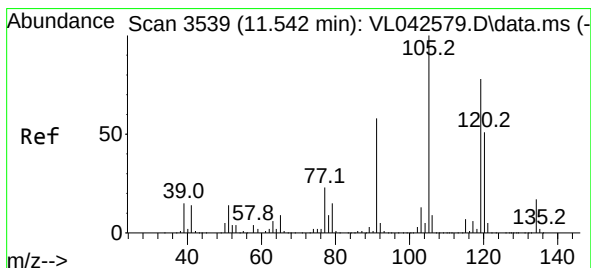
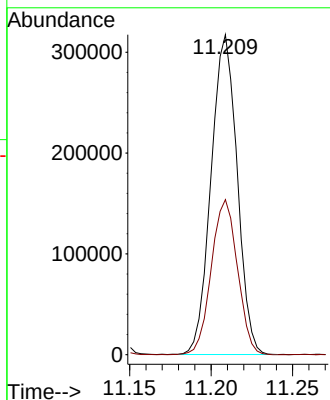
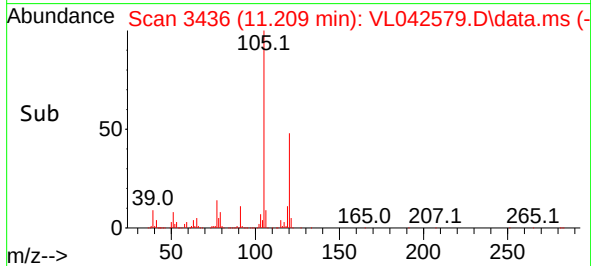
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:105 Resp: 352978
Ion Ratio Lower Upper
105 100
120 48.5 38.8 58.2

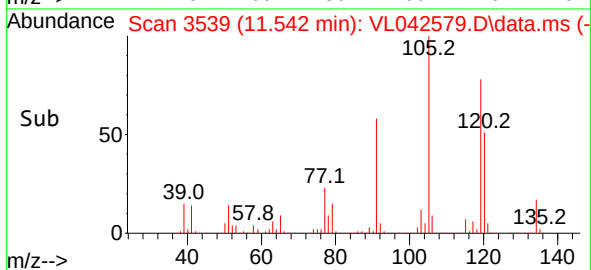
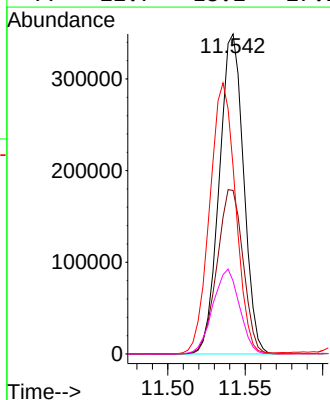
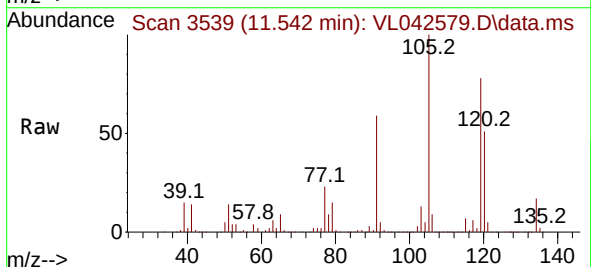
Manual Integrations
APPROVED

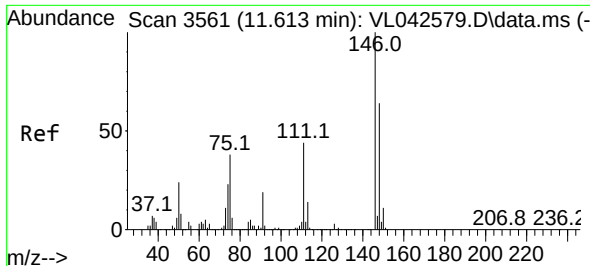
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#74
1,2,4-Trimethylbenzene
Concen: 8.755 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

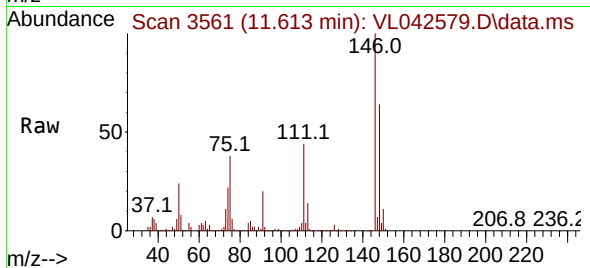
Tgt Ion:105 Resp: 381512
Ion Ratio Lower Upper
105 100
120 51.0 40.8 61.2
91 58.5 46.8 70.2
77 22.7 18.2 27.2





#75
1,3-Dichlorobenzene
Concen: 8.762 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

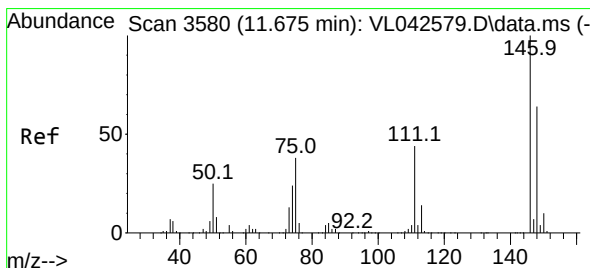
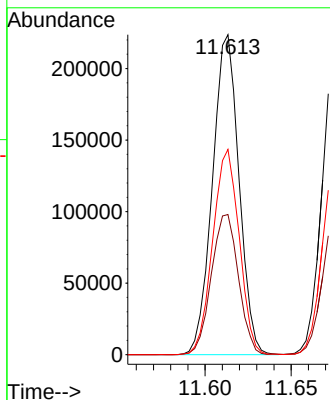
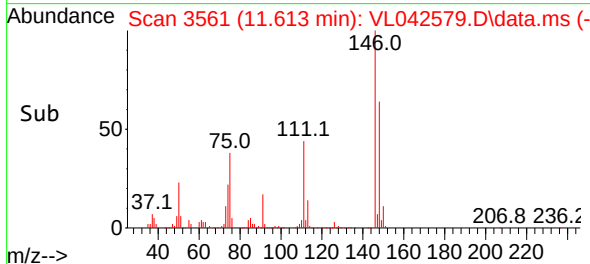
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010



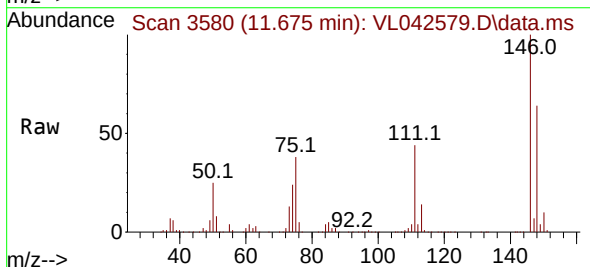
Tgt Ion:146 Resp: 239782
Ion Ratio Lower Upper
146 100
111 44.9 22.4 67.3
148 64.1 32.0 96.2

Manual Integrations
APPROVED

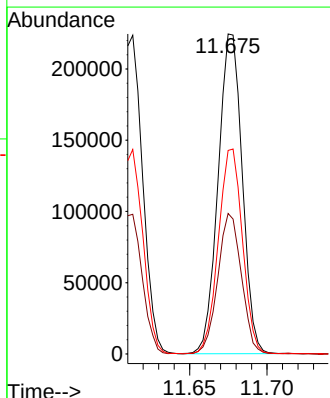
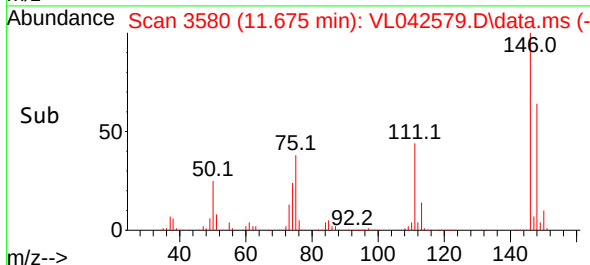
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

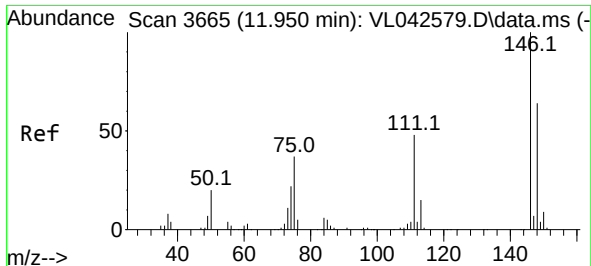


#76
1,4-Dichlorobenzene
Concen: 8.894 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09



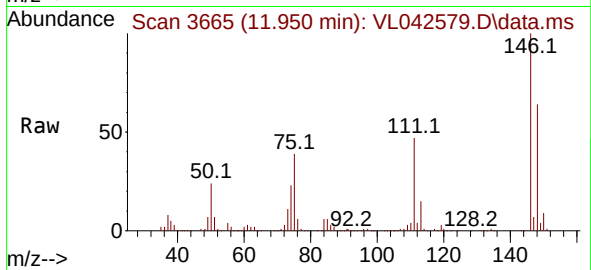
Tgt Ion:146 Resp: 242731
Ion Ratio Lower Upper
146 100
111 43.2 21.6 64.8
148 64.4 32.1 96.5





#77
1,2-Dichlorobenzene
Concen: 8.593 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

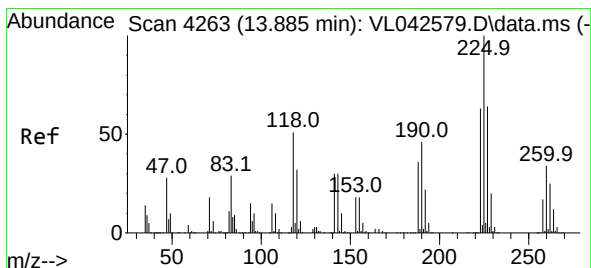
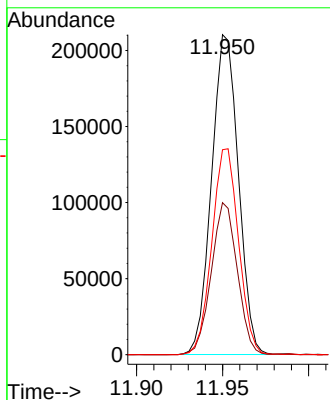
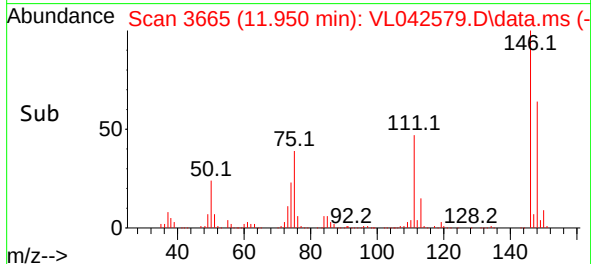
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



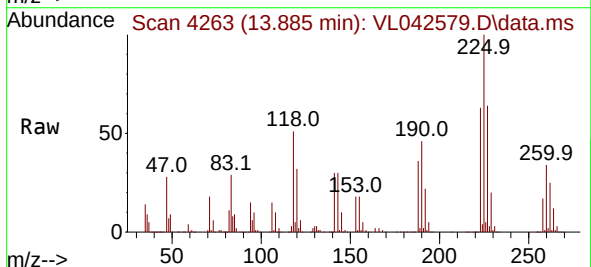
Tgt Ion:146 Resp: 22822
Ion Ratio Lower Upper
146 100
111 46.1 23.1 69.3
148 64.2 32.1 96.3

Manual Integrations
APPROVED

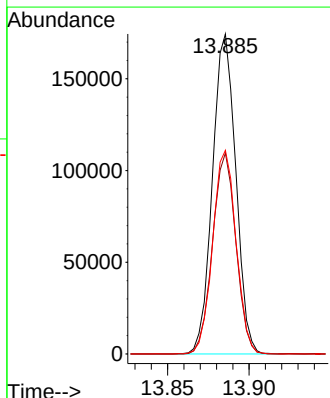
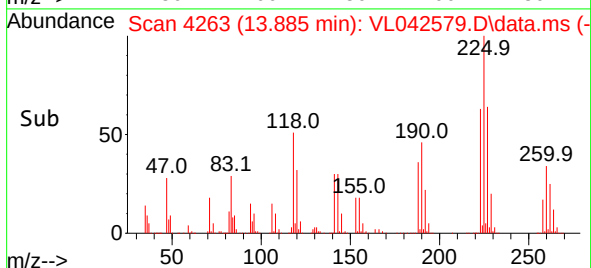
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

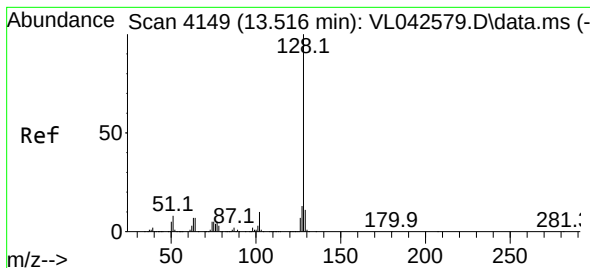


#78
Hexachloro-1,3-Butadiene
Concen: 7.893 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09



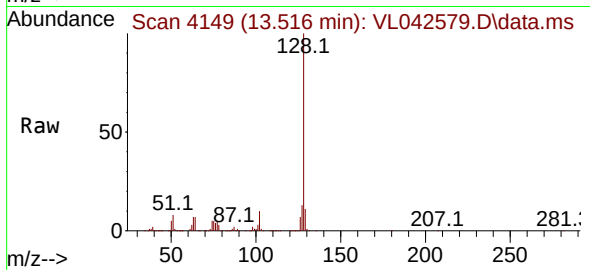
Tgt Ion:225 Resp: 173447
Ion Ratio Lower Upper
225 100
223 62.8 50.2 75.4
227 63.9 51.1 76.7





#79
Naphthalene
Concen: 9.666 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

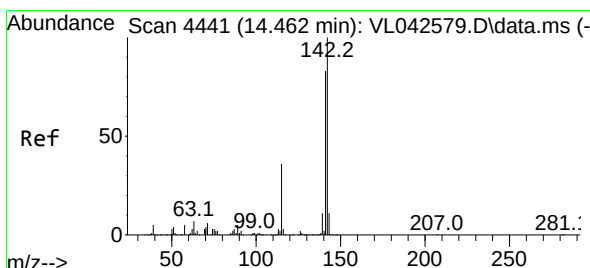
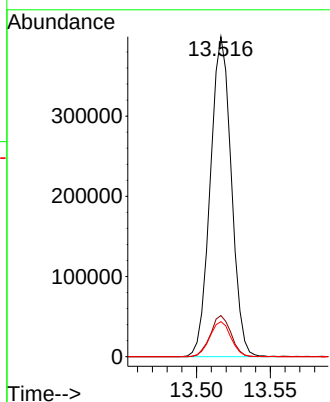
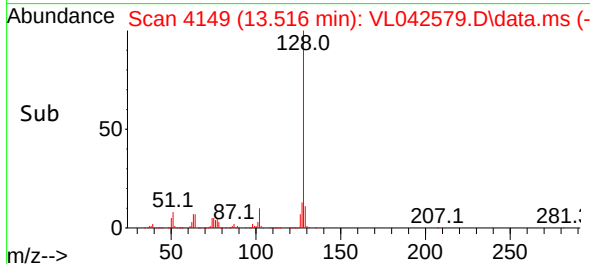
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



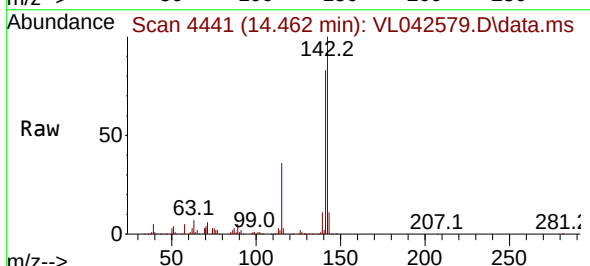
Tgt Ion:128 Resp: 395465
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.4
129 11.0 8.8 13.2

Manual Integrations
APPROVED

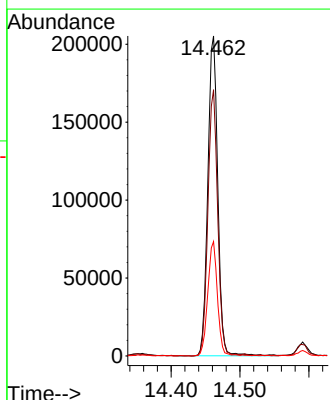
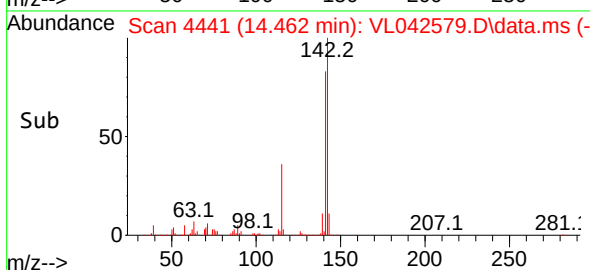
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

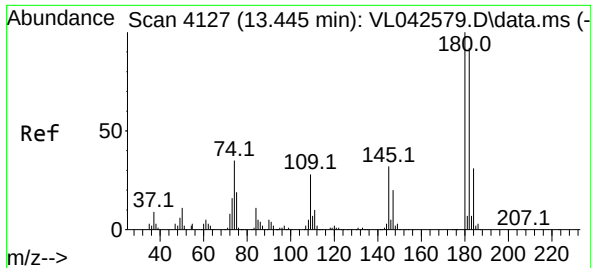


#80
Naphthalene,2-methyl-
Concen: 11.045 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09



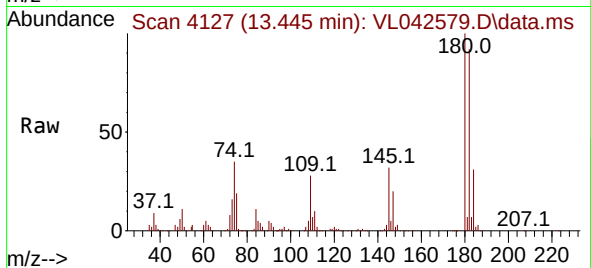
Tgt Ion:142 Resp: 204746
Ion Ratio Lower Upper
142 100
141 82.6 66.2 99.4
115 35.3 28.3 42.5





#81
 1,2,4-Trichlorobenzene
 Concen: 9.163 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

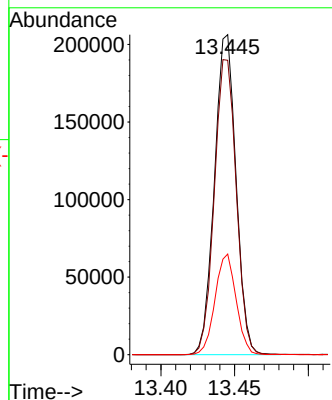
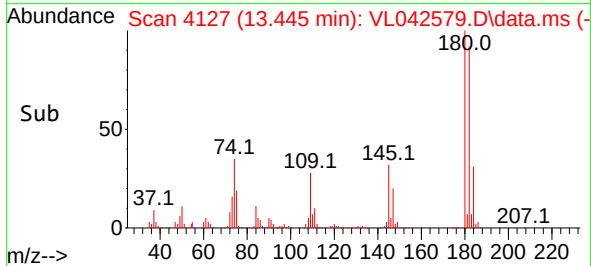
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:180 Resp: 210120
 Ion Ratio Lower Upper
 180 100
 182 93.7 75.0 112.4
 184 30.7 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042580.D
 Acq On : 29 May 2025 11:43
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:17:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	104930	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	310090	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	284199	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 210508 9.881 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	27278	2.115	ppbv	99
3) Chlorodifluoromethane	1.476	51	38320	2.157	ppbv	98
4) Chloromethane	1.534	50	10641	2.084	ppbv	98
5) Vinyl Chloride	1.580	62	9819	1.887	ppbv	98
6) Bromomethane	1.670	94	4819	1.903	ppbv	83
7) Chloroethane	1.706	64	4162	2.059	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	22568	2.100	ppbv	98
9) Propene	1.483	41	15155	2.119	ppbv	96
10) Heptane	4.988	43	41577	2.060	ppbv	97
11) Trichlorofluoromethane	1.878	101	25215	2.101	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.143	101	19963	2.119	ppbv	99
13) Ethanol	1.722	45	1925m	2.411	ppbv	
14) Bromoethene	1.784	108	7607	2.146	ppbv #	94
15) Acetone	1.839	43	27254	2.156	ppbv	100
16) 1,3-Butadiene	1.609	39	12523	2.092	ppbv	95
17) tert-Butyl alcohol	2.046	59	26842	2.039	ppbv	96
18) 1,1-Dichloroethene	2.036	96	9179	2.094	ppbv	95
19) Isopropyl Alcohol	1.887	45	15567	2.060	ppbv #	43
20) Methylene Chloride	2.062	84	8763	2.101	ppbv	95
21) Allyl Chloride	2.098	41	18178	2.038	ppbv	91
22) trans-1,2-Dichloroethene	2.344	96	9775	1.998	ppbv	97
23) Vinyl Acetate	2.467	43	35373	2.070	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	21077	2.100	ppbv	98
25) Ethyl Acetate	2.842	43	71613	2.070	ppbv	99
26) Hexane	2.829	57	32018	2.037	ppbv	97
27) Carbon Disulfide	2.153	76	25143	2.084	ppbv #	62
28) Methyl tert-Butyl Ether	2.444	73	13034	2.044	ppbv #	90
29) Chloroform	2.852	83	42693	2.089	ppbv	93
30) Cyclohexane	3.858	84	27030	2.075	ppbv	96
31) cis-1,2-Dichloroethene	2.726	61	30737	2.138	ppbv	93
32) 1,1,1-Trichloroethane	3.373	97	42588	2.077	ppbv	99
34) 2-Butanone	2.564	43	46279	2.093	ppbv	100
35) Carbon Tetrachloride	3.768	117	41545	2.029	ppbv	95
36) Benzene	3.661	78	63709	2.086	ppbv	96
37) 1,2-Dichloroethane	3.221	62	31831	2.097	ppbv	97
38) Trichloroethene	4.554	130	27139	2.075	ppbv	95
39) 1,2-Dichloropropane	4.321	63	23145	2.050	ppbv	98
40) 1,4-Dioxane	4.603	88	10426m	2.173	ppbv	
41) Tetrahydrofuran	3.062	42	26391	2.039	ppbv	96
42) Bromodichloromethane	4.496	83	44705	2.074	ppbv	90
43) Methyl Methacrylate	4.894	69	25156m	2.126	ppbv	
44) 2,2,4-Trimethylpentane	4.648	57	109446	2.097	ppbv	100
45) t-1,3-Dichloropropene	6.432	75	28273m	2.085	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042580.D
 Acq On : 29 May 2025 11:43
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:17:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

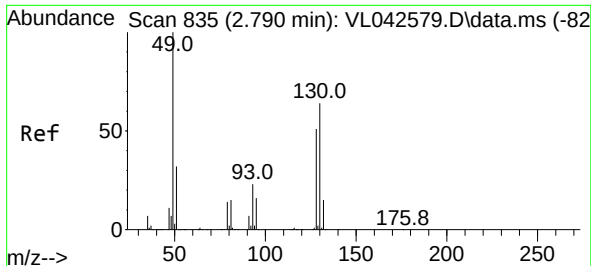
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

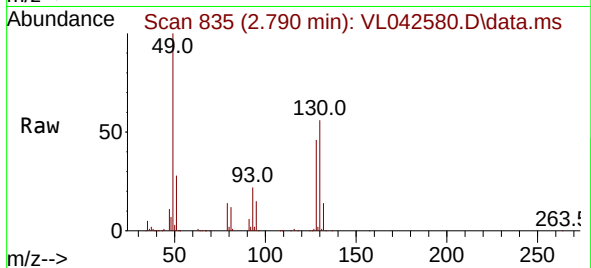
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	34445	2.027	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	24455	2.092	ppbv	94
48) Dibromochloromethane	7.396	129	39361	2.103	ppbv	99
49) Bromoform	9.487	173	34270	2.122	ppbv	98
50) 4-Methyl-2-Pentanone	5.771	43	62167	2.018	ppbv	99
51) 2-Hexanone	7.451	43	51074	2.100	ppbv #	97
52) Tetrachloroethene	8.234	164	24205	2.121	ppbv	95
53) Toluene	6.940	91	74240	2.104	ppbv	99
54) 1,2-Dibromoethane	7.661	107	35750	2.063	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.933	131	30026	2.101	ppbv	97
57) Chlorobenzene	8.930	112	57617	2.088	ppbv	95
58) Ethyl Benzene	9.361	91	104171	2.161	ppbv	96
59) m/p-Xylene	9.558	91	162694m	4.288	ppbv	
60) o-Xylene	9.969	91	81886	2.164	ppbv	97
61) Styrene	9.879	104	38542	2.154	ppbv	99
62) Isopropylbenzene	10.545	105	120576	2.157	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	48590	2.020	ppbv	99
64) n-propylbenzene	10.995	120	32406	2.163	ppbv	100
65) tert-Butylbenzene	11.536	119	110380	2.176	ppbv	99
66) Benzyl Chloride	11.620	91	14327	2.190	ppbv	98
67) sec-Butylbenzene	11.772	105	153401	2.151	ppbv	99
69) p-Isopropyltoluene	11.931	119	130647	2.188	ppbv	99
70) n-Butylbenzene	12.287	91	130662	2.216	ppbv	100
71) 2-Chlorotoluene	10.908	91	90725	2.128	ppbv	99
72) 4-Ethyltoluene	11.128	105	103640	2.197	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	83829	2.147	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	94716	2.186	ppbv	98
75) 1,3-Dichlorobenzene	11.610	146	59138	2.174	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	58920	2.171	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	58400	2.212	ppbv	96
78) Hexachloro-1,3-Butadiene	13.885	225	49999	2.288	ppbv	98
79) Naphthalene	13.517	128	101451	2.494	ppbv	98
80) Naphthalene,2-methyl-	14.462	142	44376	2.408	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	53653	2.353	ppbv	97

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

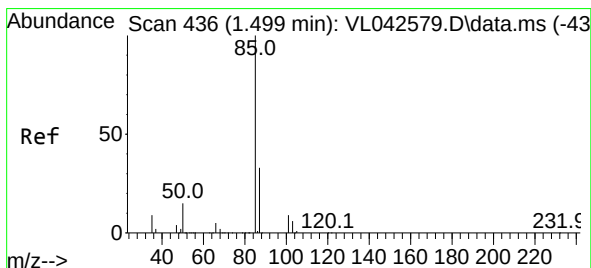
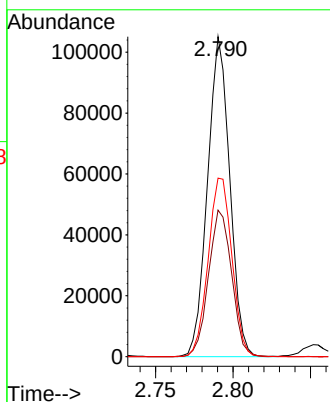
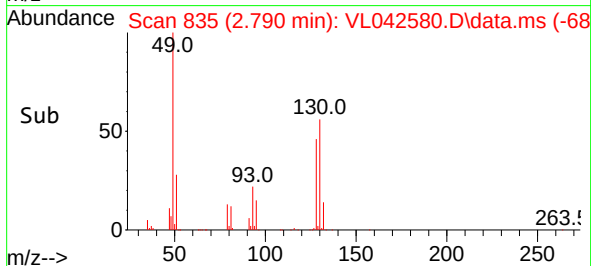
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



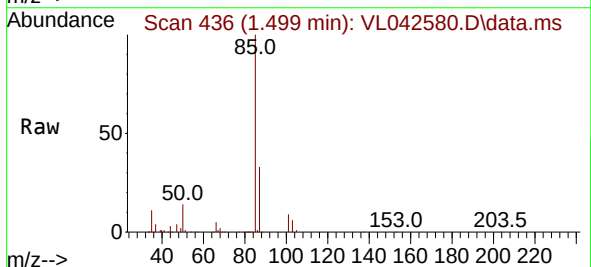
Tgt Ion: 49 Resp: 104930
Ion Ratio Lower Upper
49 100
128 47.6 24.2 72.6
130 59.6 30.4 91.2

Manual Integrations
APPROVED

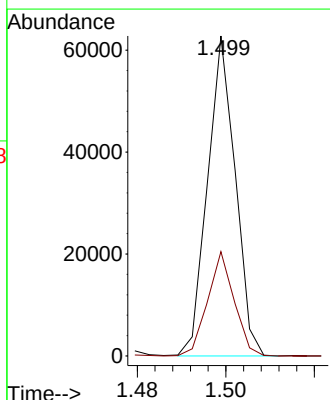
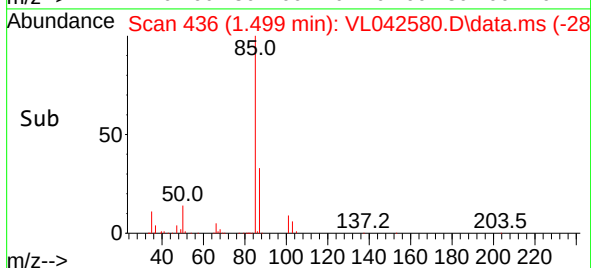
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

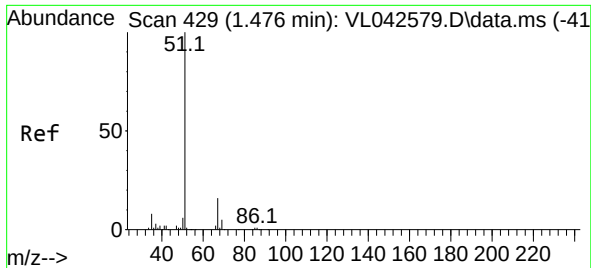


#2
Dichlorodifluoromethane
Concen: 2.115 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43



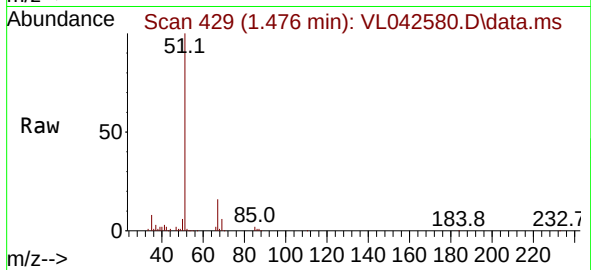
Tgt Ion: 85 Resp: 27278
Ion Ratio Lower Upper
85 100
87 32.6 26.6 39.8





#3
Chlorodifluoromethane
Concen: 2.157 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

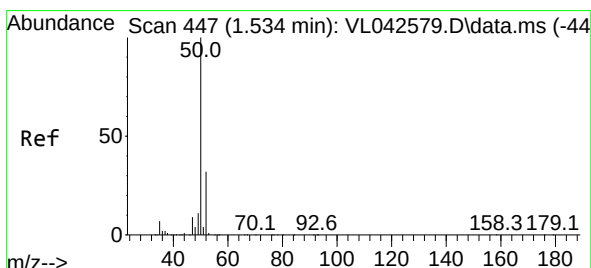
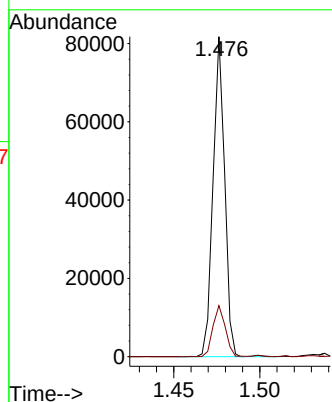
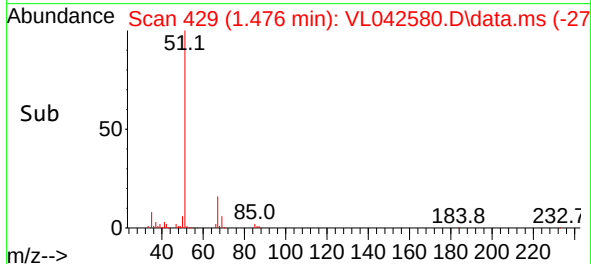
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



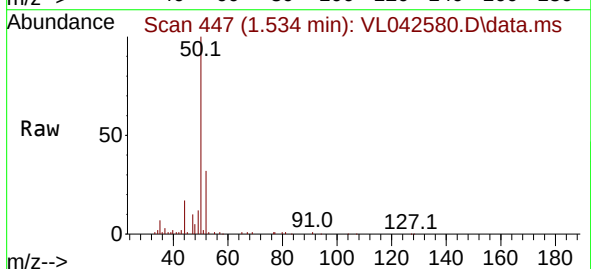
Tgt Ion: 51 Resp: 38320
Ion Ratio Lower Upper
51 100
67 17.5 13.4 20.2

Manual Integrations
APPROVED

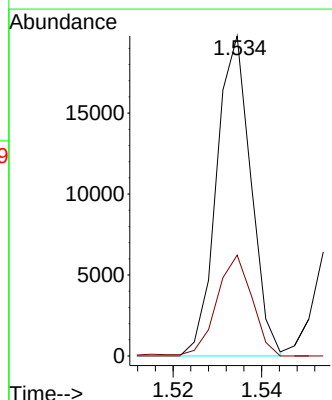
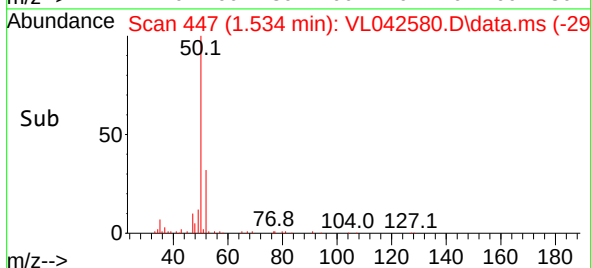
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

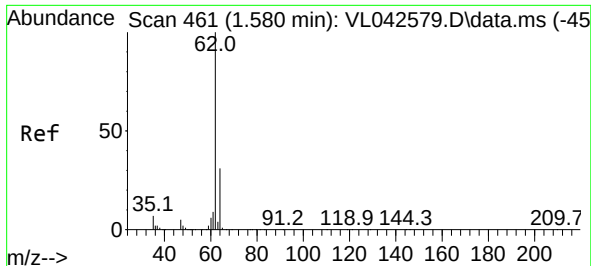


#4
Chloromethane
Concen: 2.084 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43



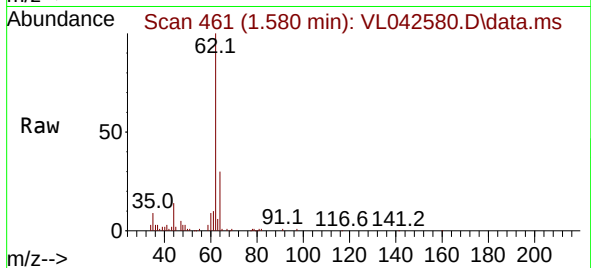
Tgt Ion: 50 Resp: 10641
Ion Ratio Lower Upper
50 100
52 31.1 25.8 38.6





#5
 Vinyl Chloride
 Concen: 1.887 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

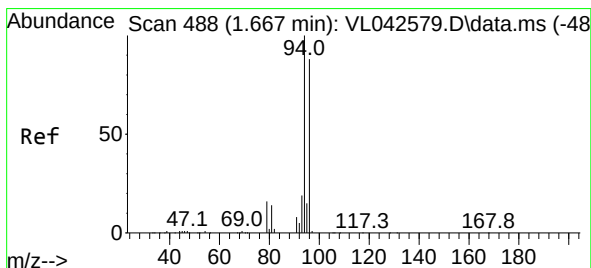
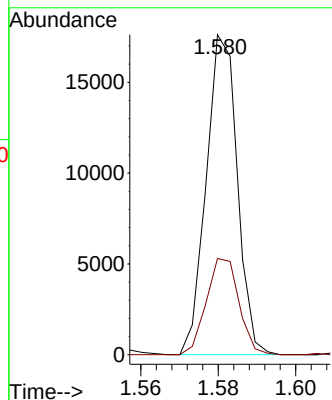
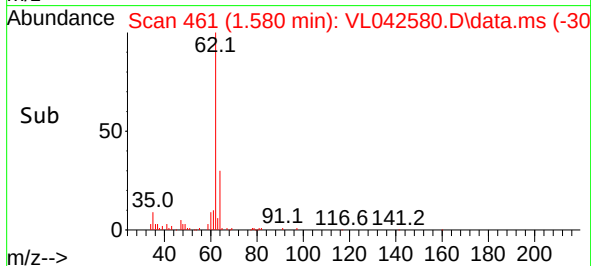
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion: 62 Resp: 9819
 Ion Ratio Lower Upper
 62 100
 64 30.0 24.9 37.3

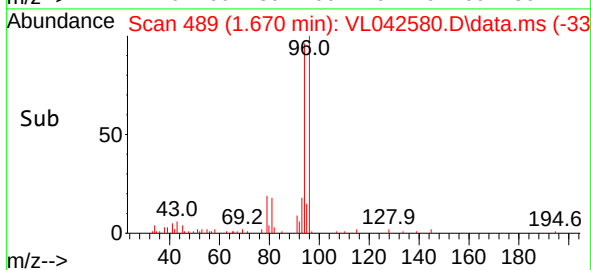
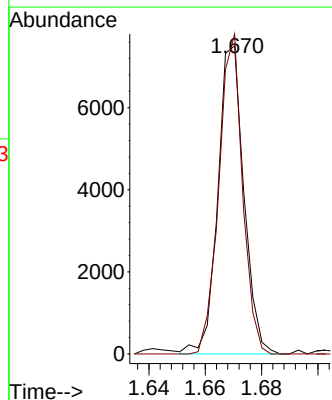
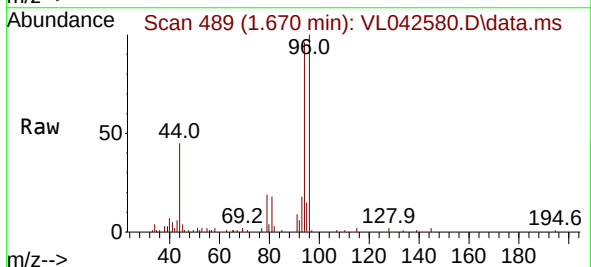
Manual Integrations
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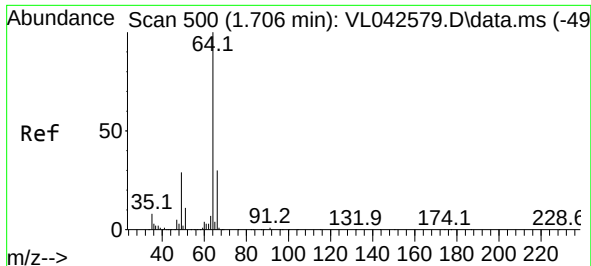
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#6
 Bromomethane
 Concen: 1.903 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

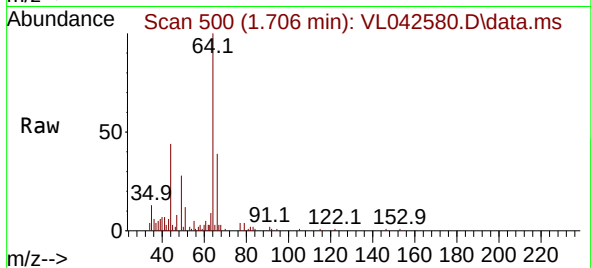
Tgt Ion: 94 Resp: 4819
 Ion Ratio Lower Upper
 94 100
 96 103.8 70.7 106.1





#7
Chloroethane
Concen: 2.059 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

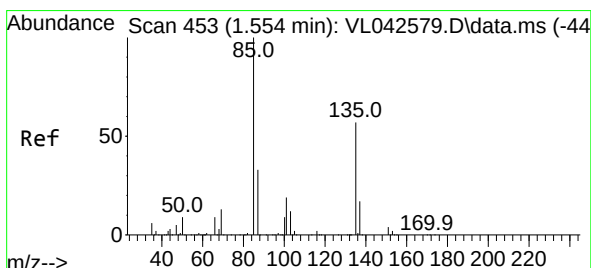
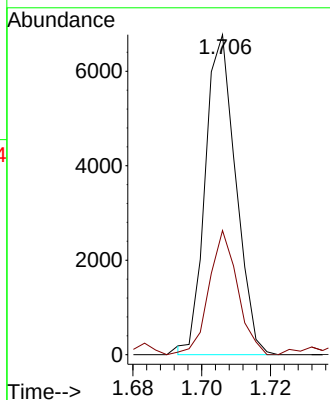
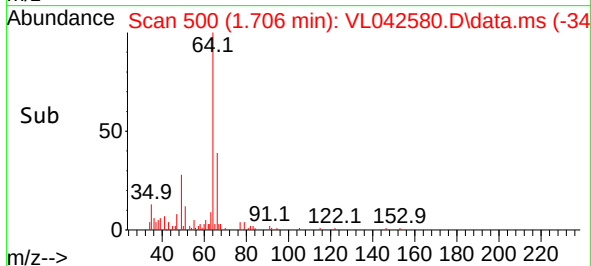
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 64 Resp: 4162
Ion Ratio Lower Upper
64 100
66 38.8 24.3 36.5

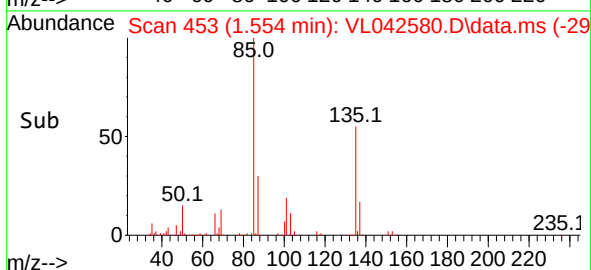
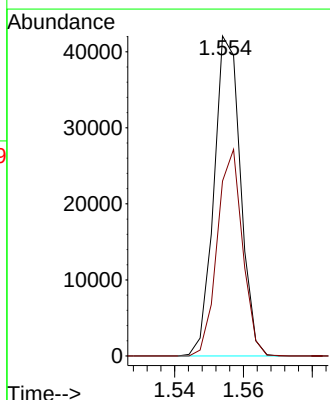
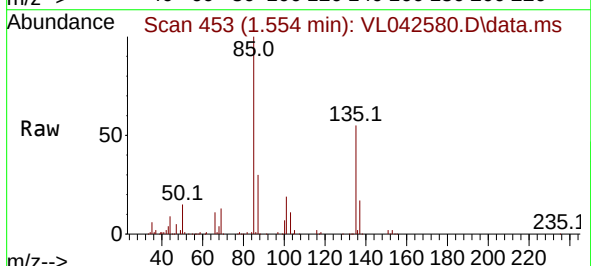
Manual Integrations
APPROVED

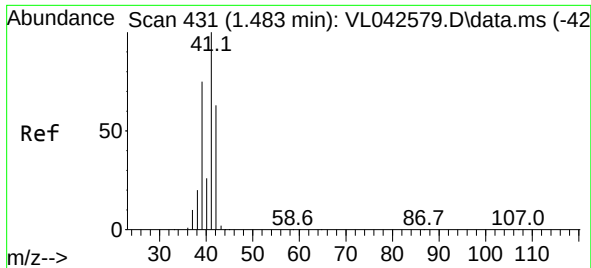
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#8
Dichlorotetrafluoroethane
Concen: 2.100 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 85 Resp: 22568
Ion Ratio Lower Upper
85 100
135 61.5 50.2 75.4





#9

Propene

Concen: 2.119 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 41 Resp: 1515

Ion Ratio Lower Upper

41 100

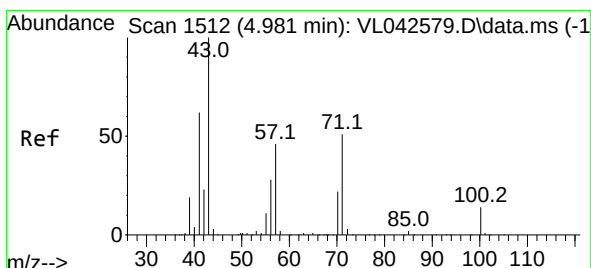
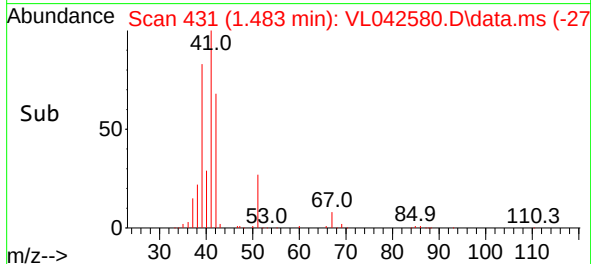
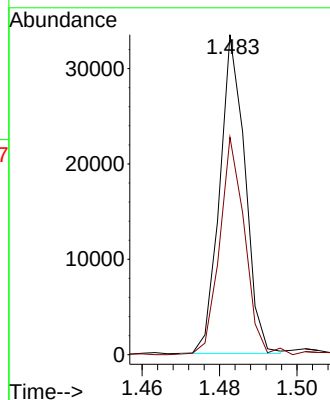
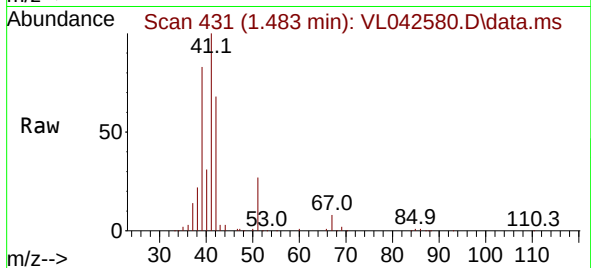
42 69.5 53.3 79.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#10

Heptane

Concen: 2.060 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.007 min

Lab File: VL042580.D

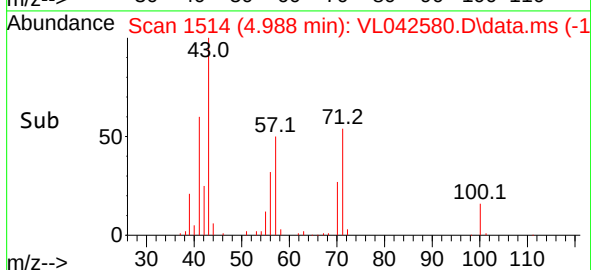
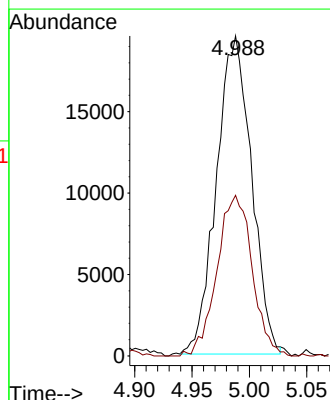
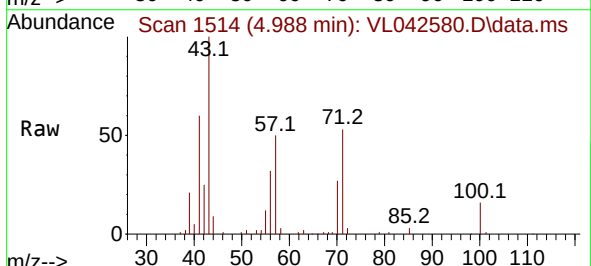
Acq: 29 May 2025 11:43

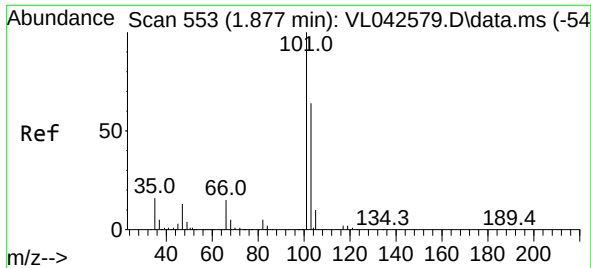
Tgt Ion: 43 Resp: 41577

Ion Ratio Lower Upper

43 100

57 50.7 38.9 58.3





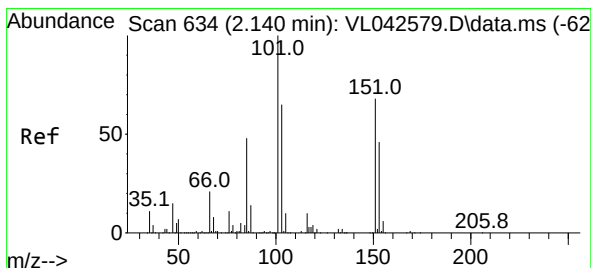
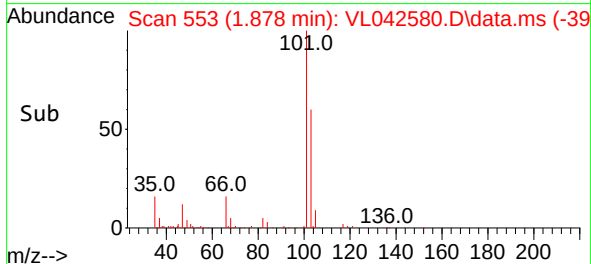
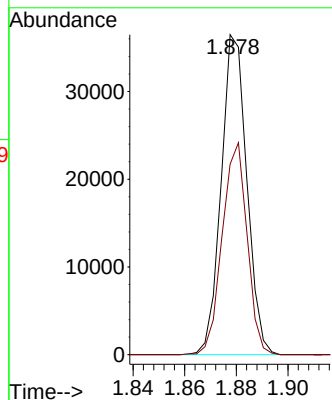
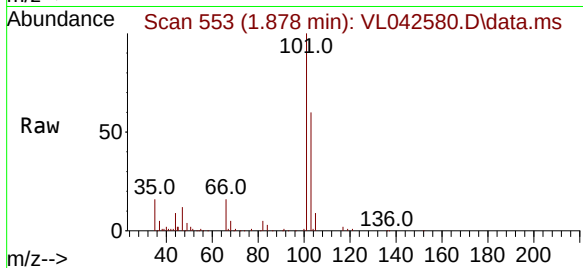
#11
Trichlorofluoromethane
Concen: 2.101 ppbv
RT: 1.878 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:101 Resp: 25215
Ion Ratio Lower Upper
101 100
103 59.5 51.5 77.3

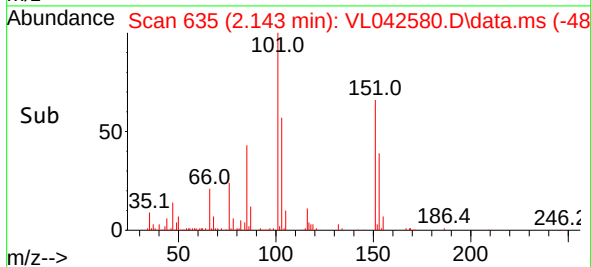
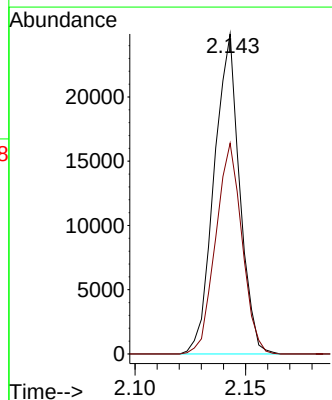
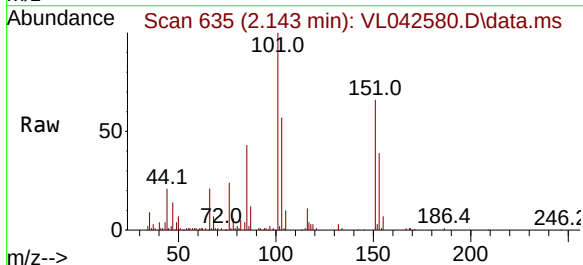
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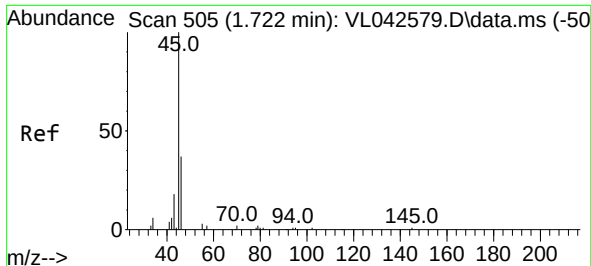
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.119 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

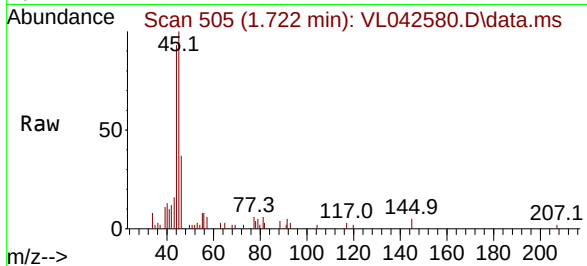
Tgt Ion:101 Resp: 19963
Ion Ratio Lower Upper
101 100
151 68.0 55.3 82.9





#13
Ethanol
Concen: 2.411 ppbv m
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

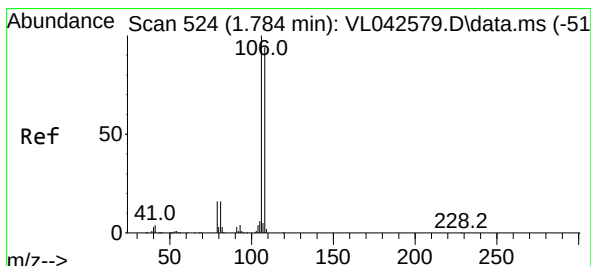
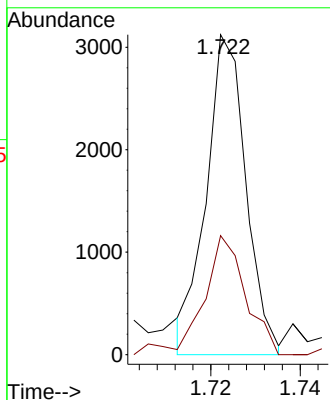
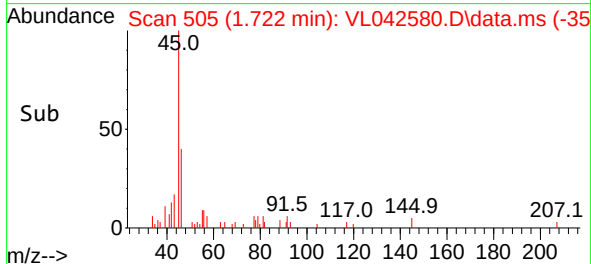
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



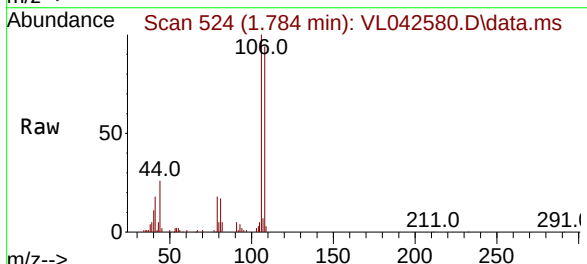
Tgt Ion: 45 Resp: 1925
Ion Ratio Lower Upper
45 100
46 44.8 14.5 58.1

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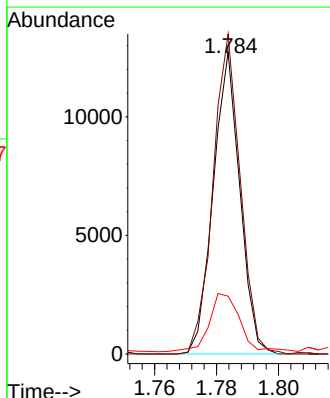
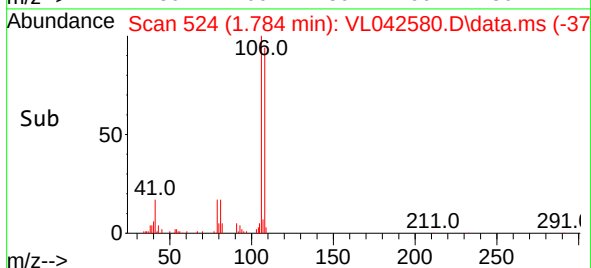
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

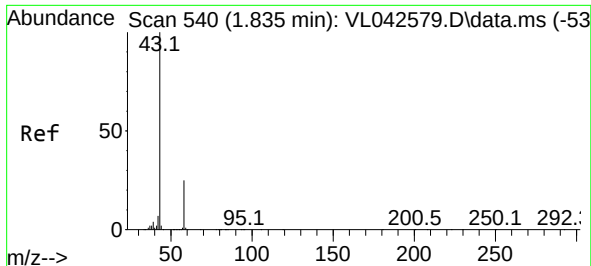


#14
Bromoethene
Concen: 2.146 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43



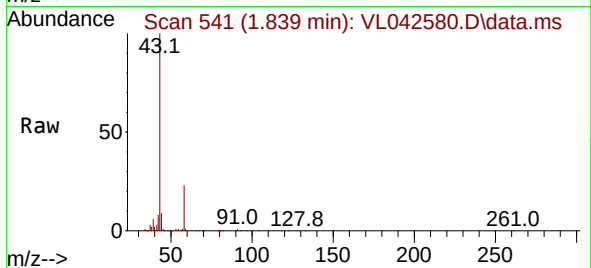
Tgt Ion:108 Resp: 7607
Ion Ratio Lower Upper
108 100
106 108.4 87.9 131.9
79 34.7 15.6 23.4#





#15
Acetone
Concen: 2.156 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

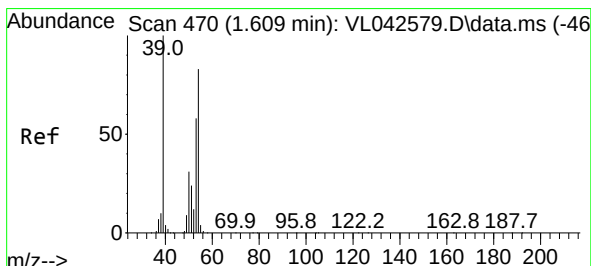
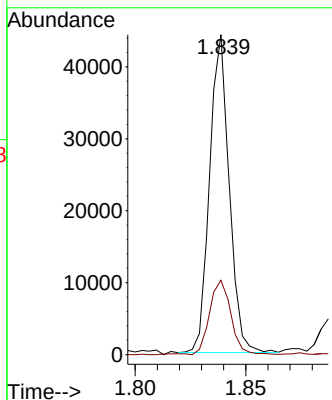
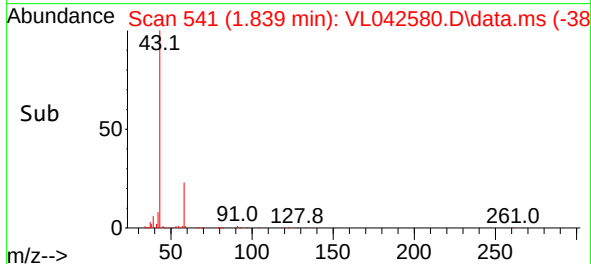
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 43 Resp: 27254
Ion Ratio Lower Upper
43 100
58 26.2 21.0 31.4

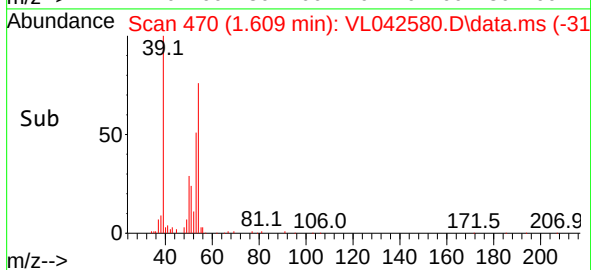
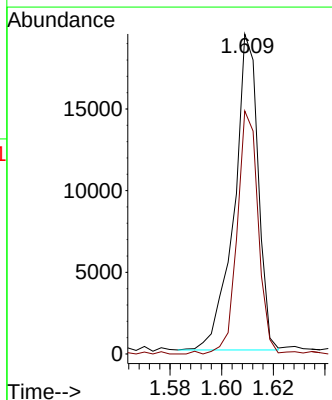
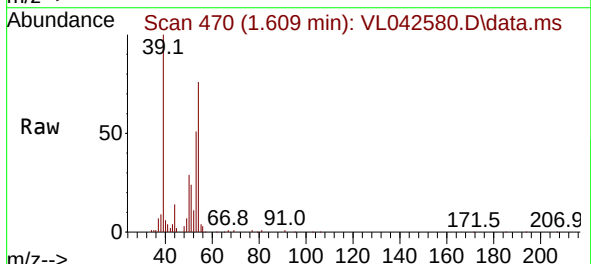
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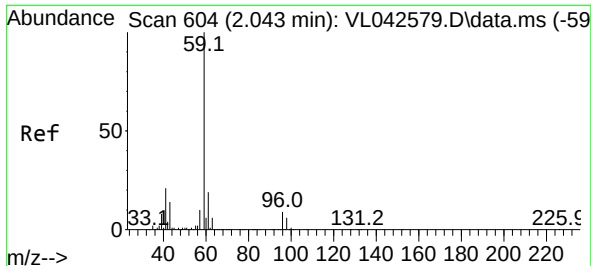
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#16
1,3-Butadiene
Concen: 2.092 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 39 Resp: 12523
Ion Ratio Lower Upper
39 100
54 68.6 57.9 86.9





#17

tert-Butyl alcohol

Concen: 2.039 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 59 Resp: 2684

Ion Ratio Lower Upper

59 100

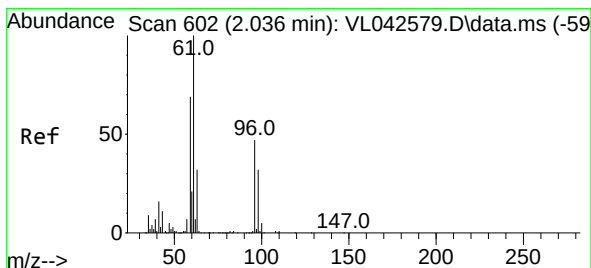
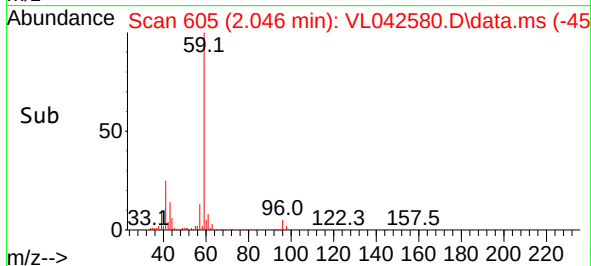
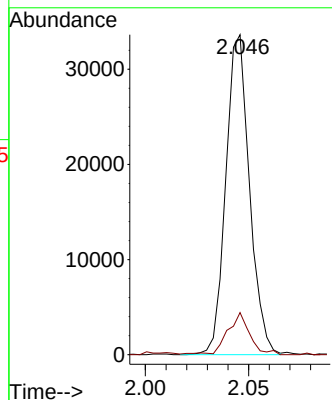
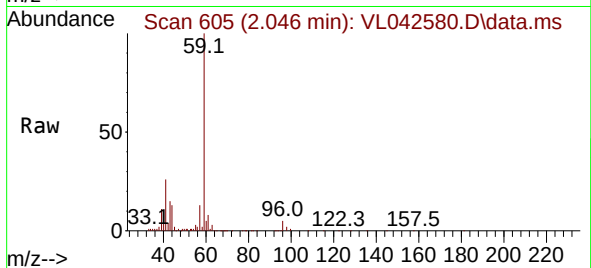
57 12.4 8.6 12.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#18

1,1-Dichloroethene

Concen: 2.094 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

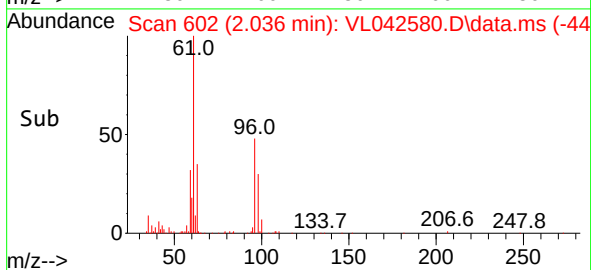
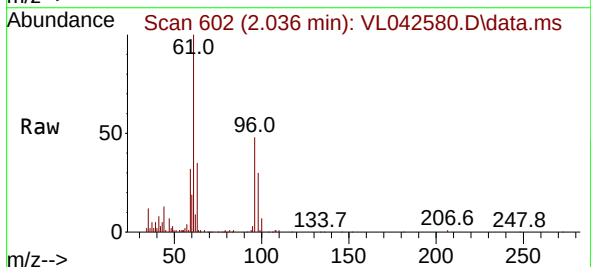
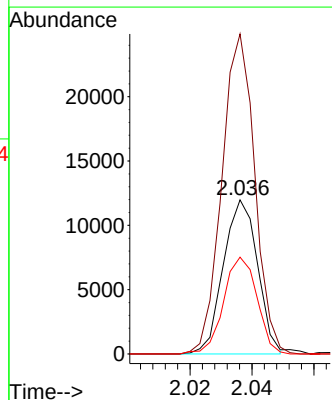
Tgt Ion: 96 Resp: 9179

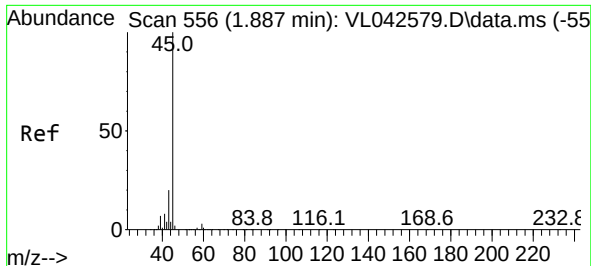
Ion Ratio Lower Upper

96 100

61 207.6 171.1 256.7

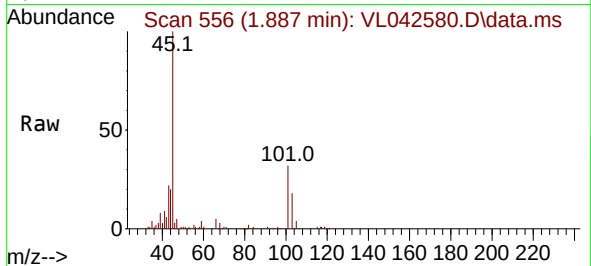
98 62.8 54.4 81.6





#19
Isopropyl Alcohol
Concen: 2.060 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

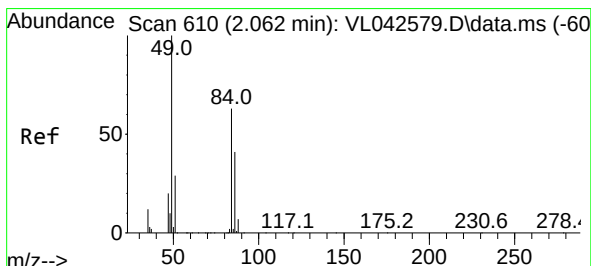
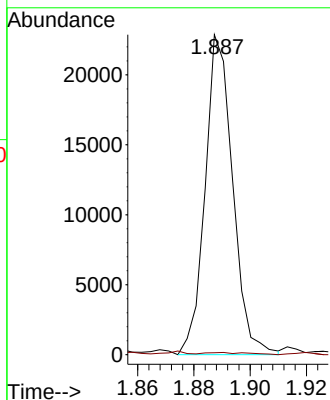
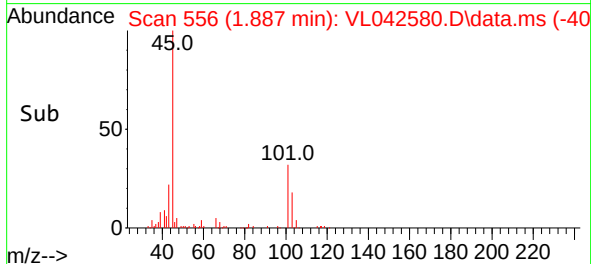
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



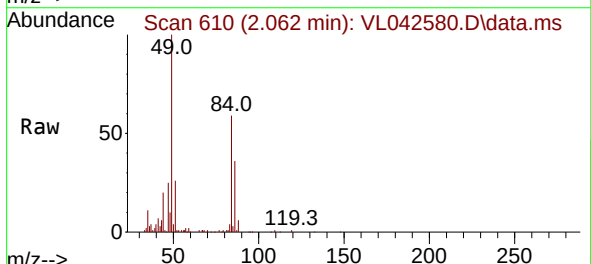
Tgt Ion: 45 Resp: 1556
Ion Ratio Lower Upper
45 100
58 2.7 29.4 44.2

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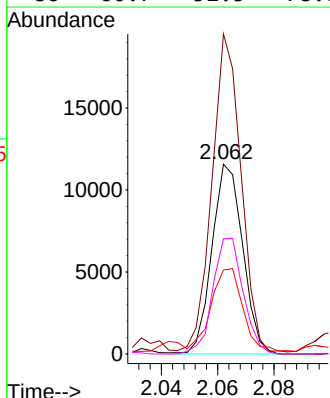
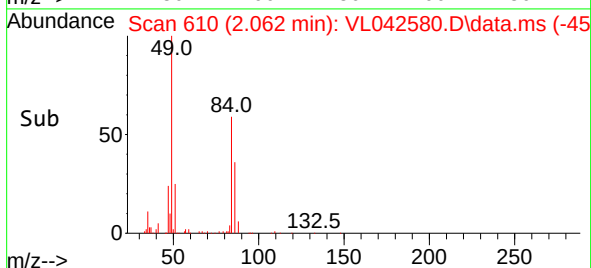
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

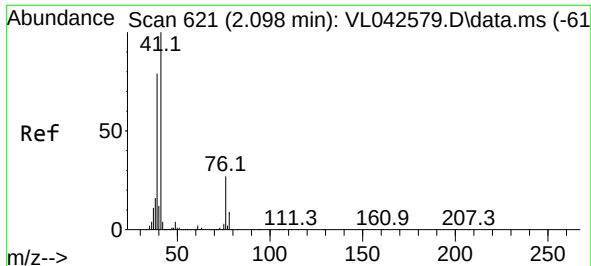


#20
Methylene Chloride
Concen: 2.101 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43



Tgt Ion: 84 Resp: 8763
Ion Ratio Lower Upper
84 100
49 166.9 128.8 193.2
51 42.8 38.6 57.8
86 60.7 52.5 78.7





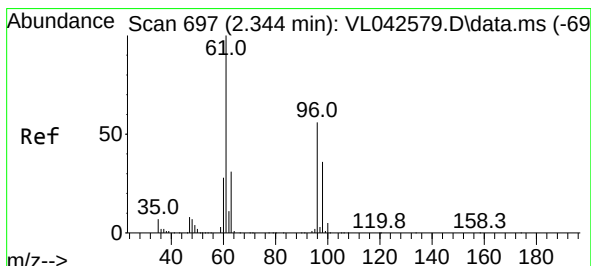
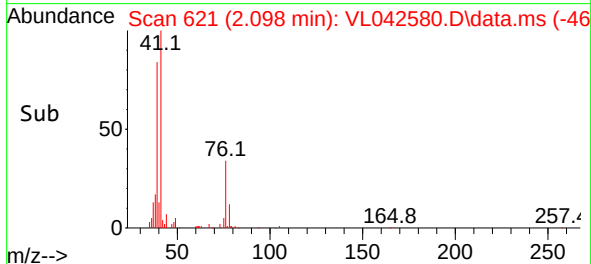
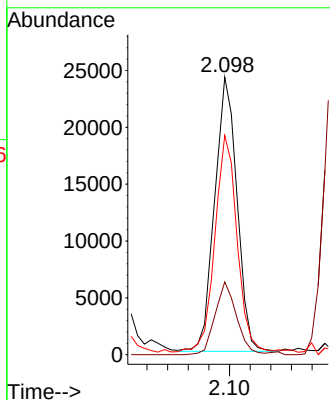
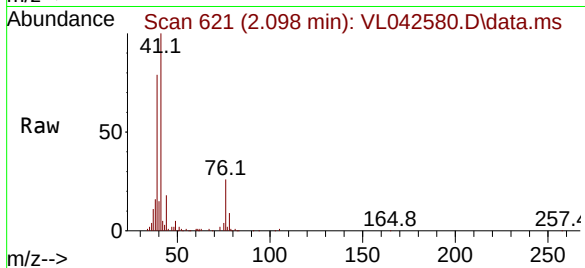
#21
 Allyl Chloride
 Concen: 2.038 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion: 41 Resp: 18178
 Ion Ratio Lower Upper
 41 100
 76 25.3 21.2 31.8
 39 85.4 60.9 91.3

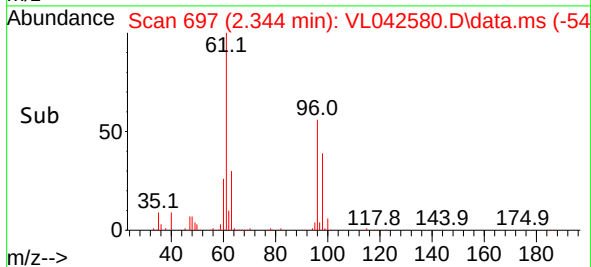
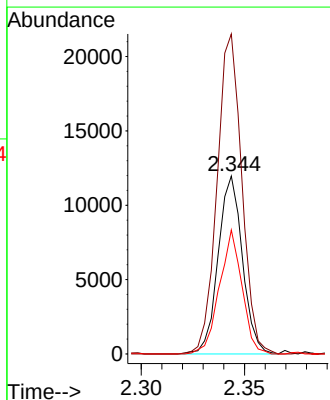
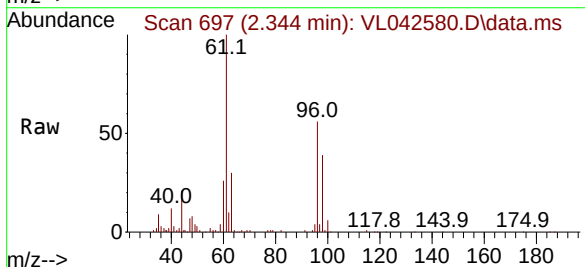
Manual Integrations
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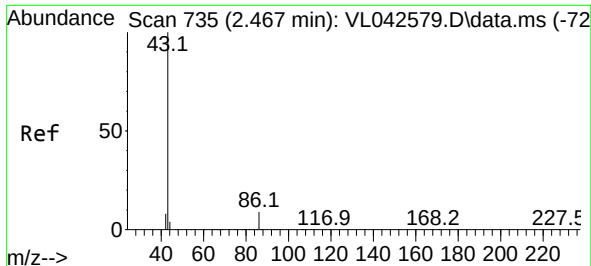
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#22
 trans-1,2-Dichloroethene
 Concen: 1.998 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

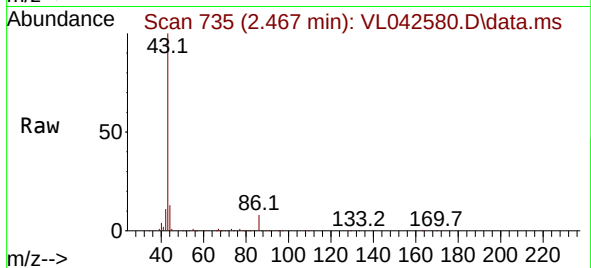
Tgt Ion: 96 Resp: 9775
 Ion Ratio Lower Upper
 96 100
 61 179.9 142.6 214.0
 98 69.7 51.0 76.4





#23
 Vinyl Acetate
 Concen: 2.070 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

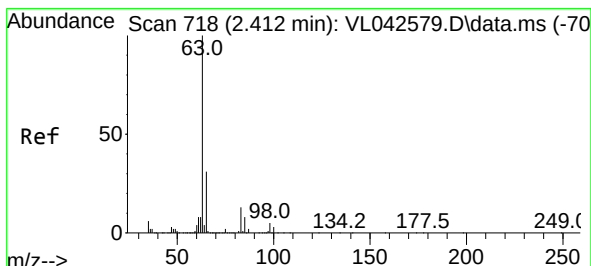
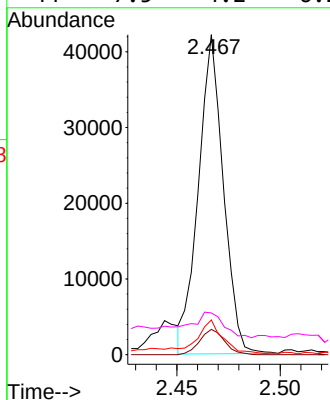
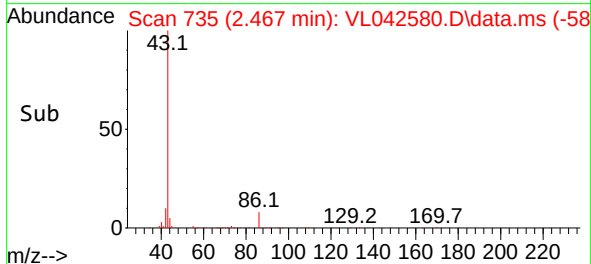
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



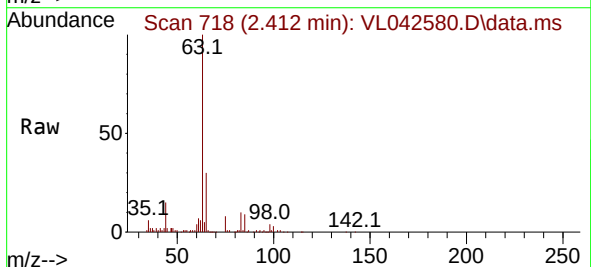
Tgt Ion	Ratio	Lower	Upper
43	100		
86	7.9	6.6	9.8
42	10.5	7.0	10.4
44	7.5	4.2	6.2

Manual Integrations
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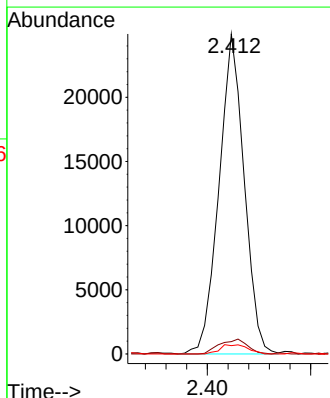
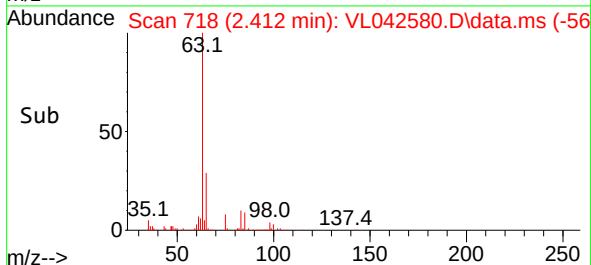
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

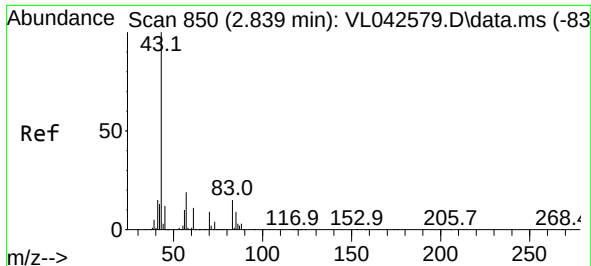


#24
 1,1-Dichloroethane
 Concen: 2.100 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43



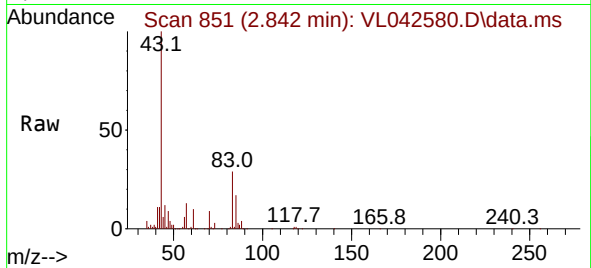
Tgt Ion	Ratio	Lower	Upper
63	100		
98	3.9	2.4	7.1
100	2.6	1.4	4.0





#25
Ethyl Acetate
Concen: 2.070 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

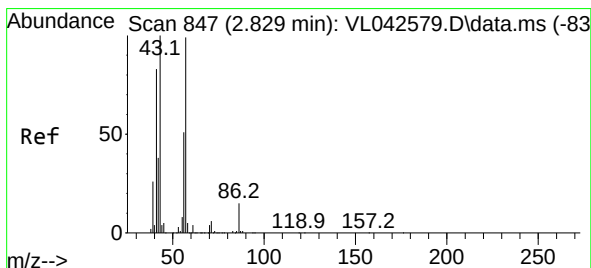
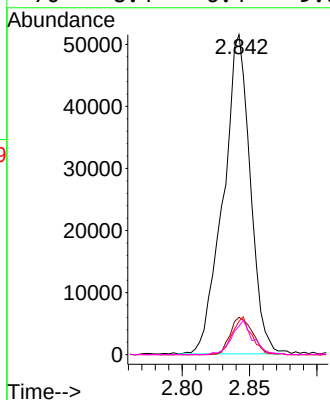
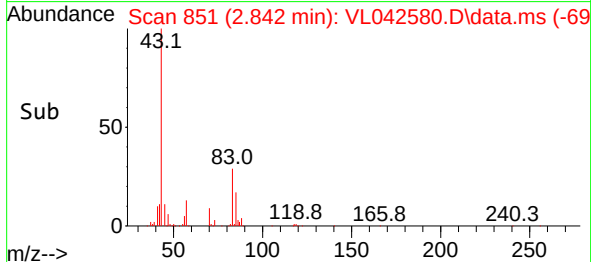
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.2	12.2
61	8.6	7.1	10.7
70	8.4	6.4	9.6

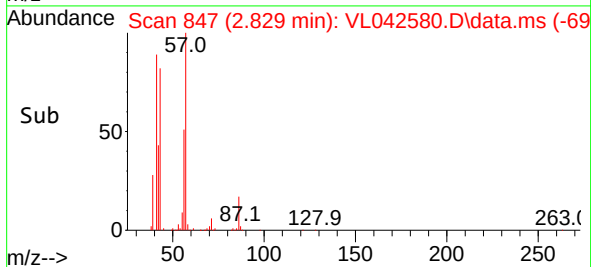
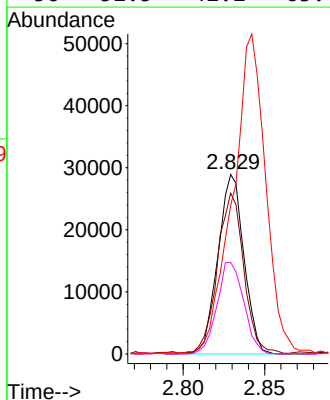
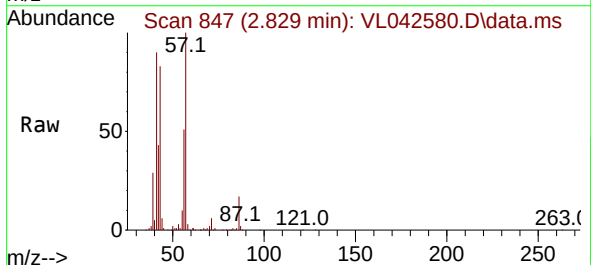
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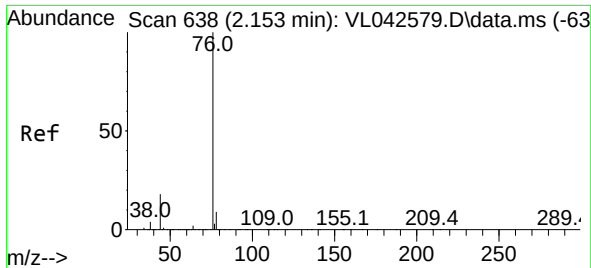
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#26
Hexane
Concen: 2.037 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

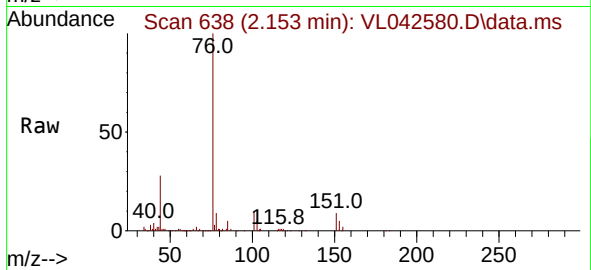
Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.0	70.6	106.0
43	228.7	181.1	271.7
56	52.5	42.2	63.4





#27
Carbon Disulfide
Concen: 2.084 ppbv
RT: 2.153 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

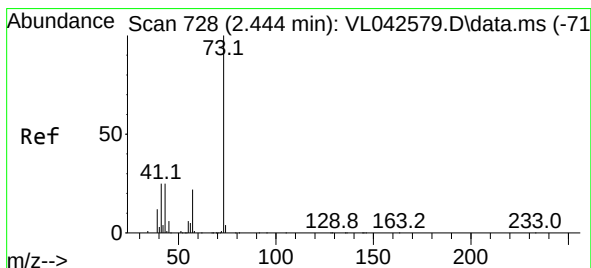
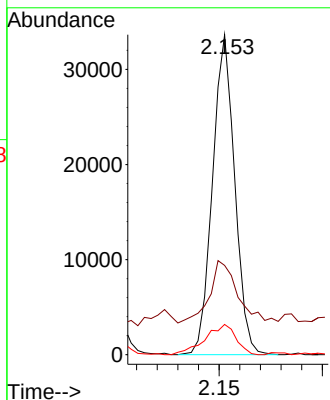
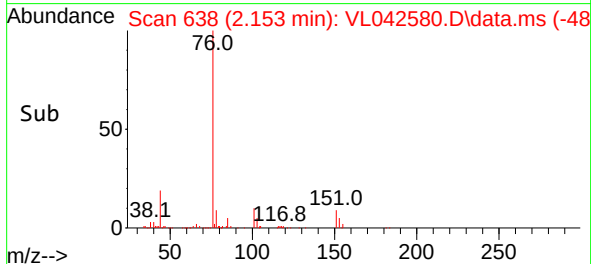
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 76 Resp: 2514
Ion Ratio Lower Upper
76 100
44 53.4 21.3 31.9
78 13.6 9.4 14.0

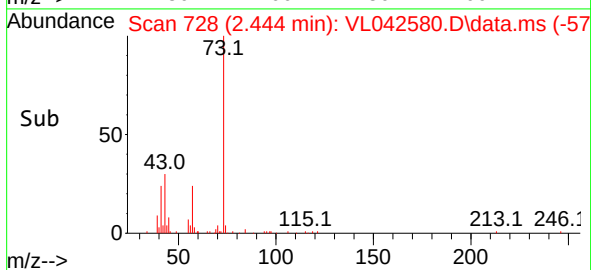
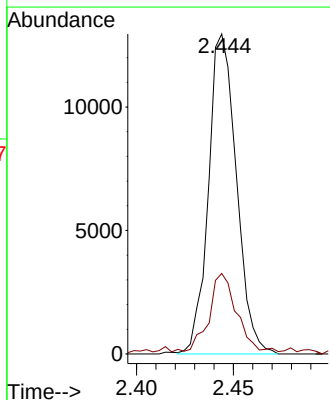
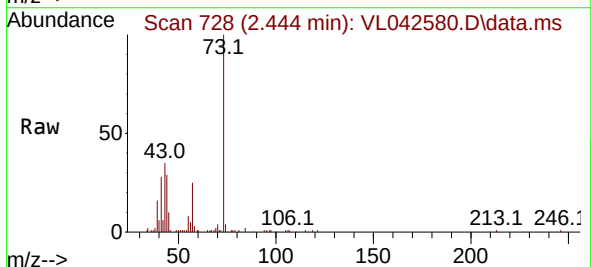
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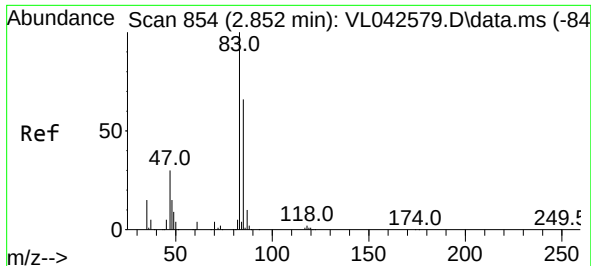
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#28
Methyl tert-Butyl Ether
Concen: 2.044 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 73 Resp: 13034
Ion Ratio Lower Upper
73 100
57 30.2 19.9 29.9





#29

Chloroform

Concen: 2.089 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.000 min

Lab File: VL042580.D

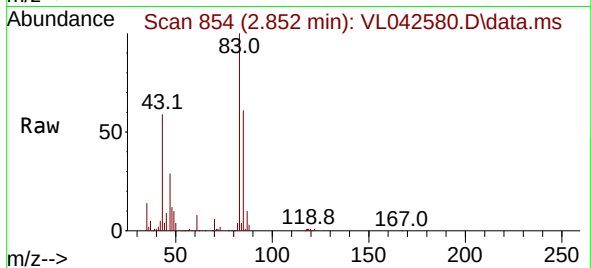
Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

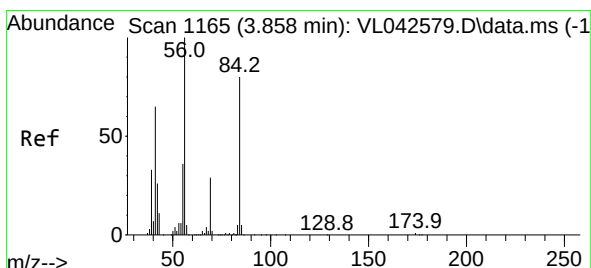
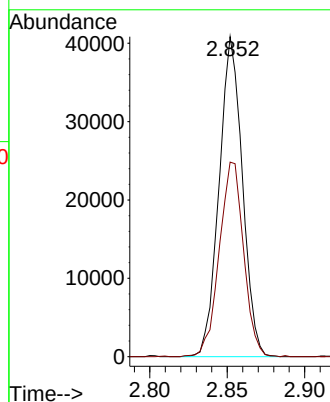
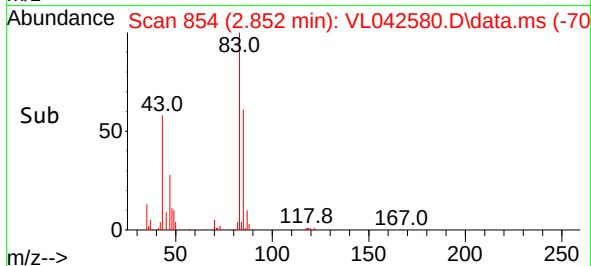


Tgt Ion: 83 Resp: 42693
 Ion Ratio Lower Upper
 83 100
 85 60.8 52.8 79.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#30

Cyclohexane

Concen: 2.075 ppbv

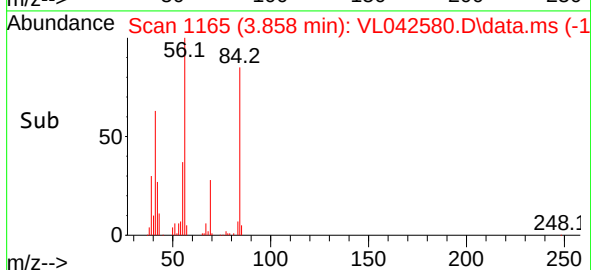
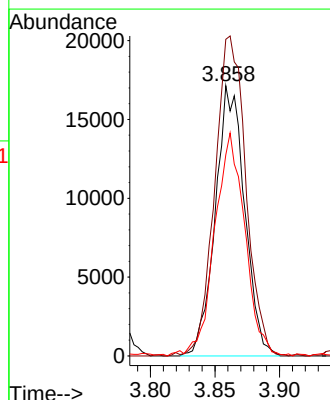
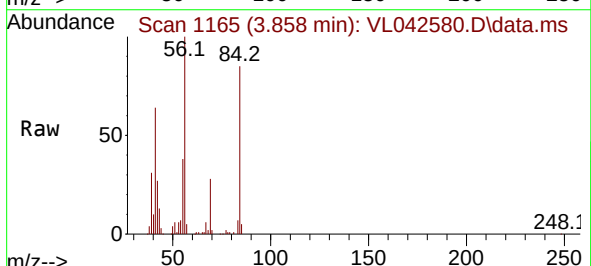
RT: 3.858 min Scan# 1165

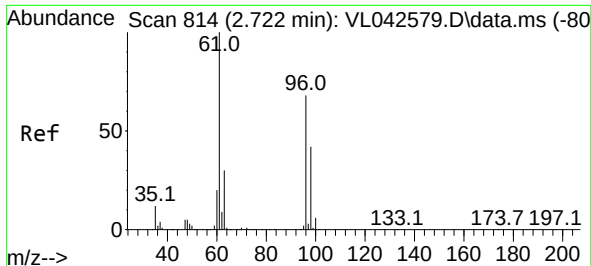
Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

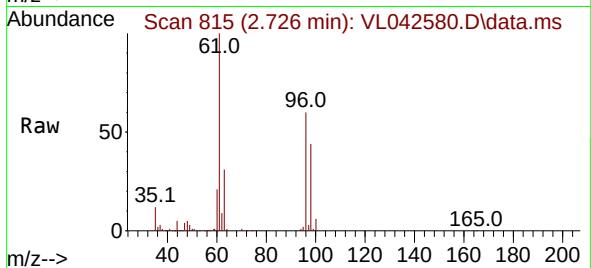
Tgt Ion: 84 Resp: 27030
 Ion Ratio Lower Upper
 84 100
 56 126.0 103.7 155.5
 41 85.5 65.1 97.7





#31
 cis-1,2-Dichloroethene
 Concen: 2.138 ppbv
 RT: 2.726 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

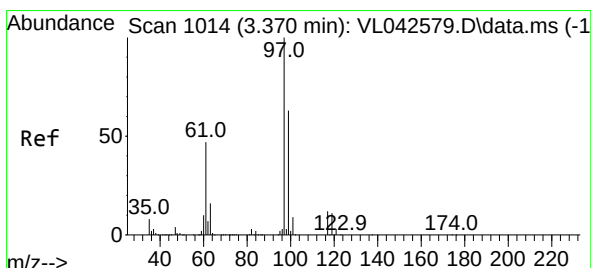
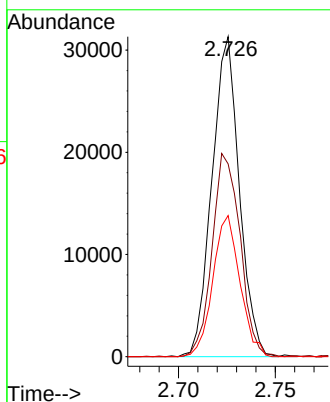
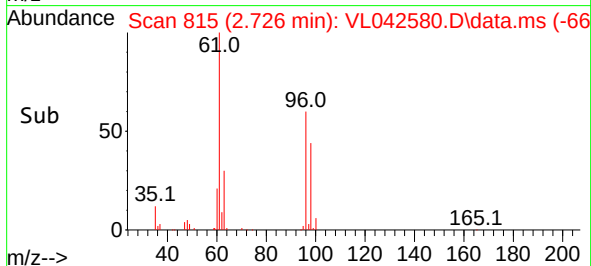
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



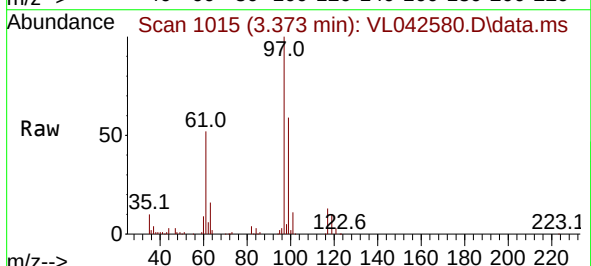
Tgt Ion: 61 Resp: 3073
 Ion Ratio Lower Upper
 61 100
 96 60.3 54.5 81.7
 98 44.1 33.4 50.2

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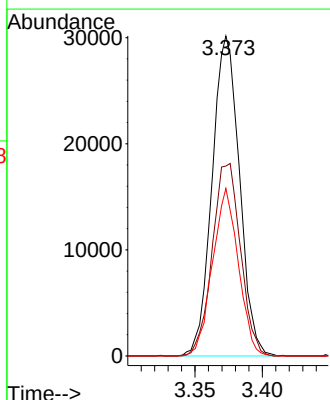
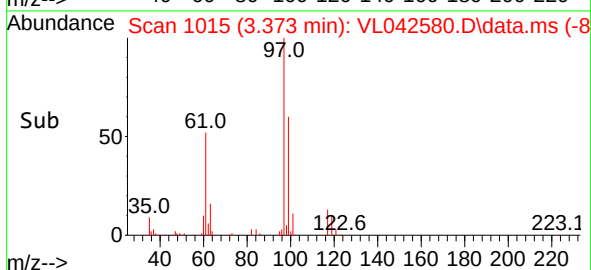
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

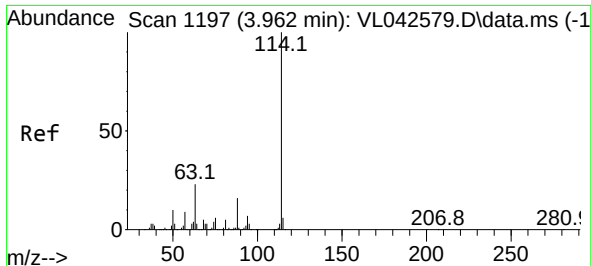


#32
 1,1,1-Trichloroethane
 Concen: 2.077 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.003 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43



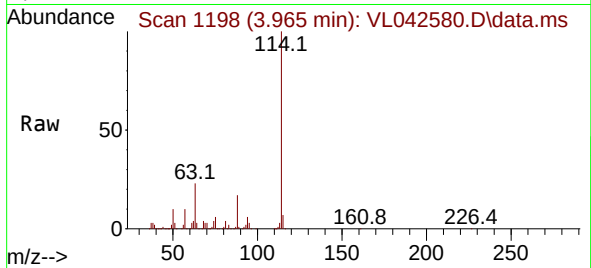
Tgt Ion: 97 Resp: 42588
 Ion Ratio Lower Upper
 97 100
 99 62.2 51.0 76.6
 61 49.5 39.4 59.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

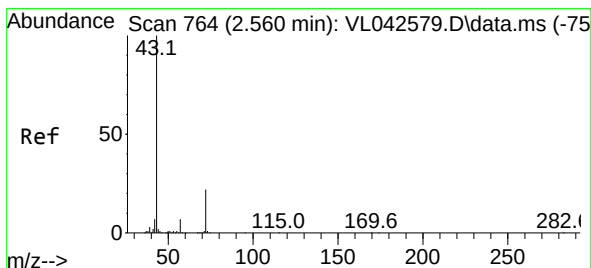
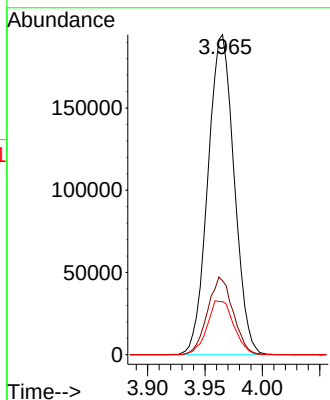
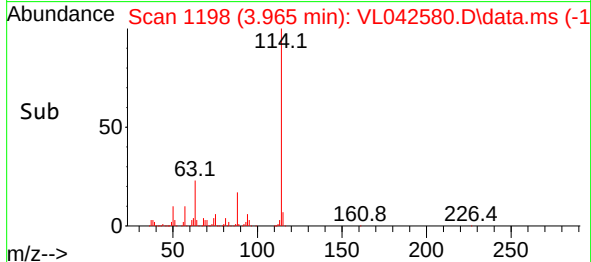
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion:114 Resp: 31090
Ion Ratio Lower Upper
114 100
63 23.7 19.0 28.6
88 17.1 13.6 20.4

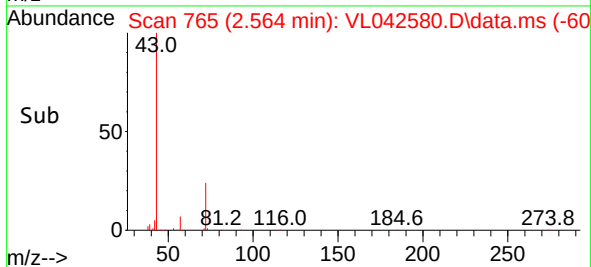
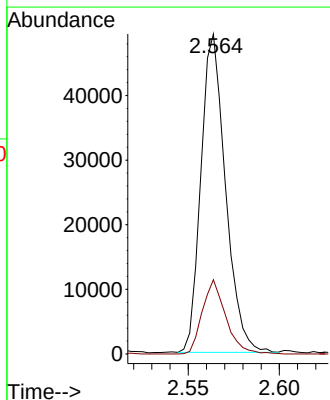
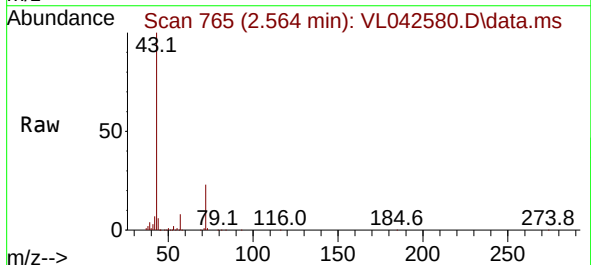
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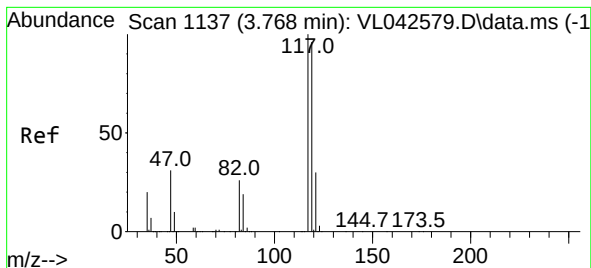
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#34
2-Butanone
Concen: 2.093 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 43 Resp: 46279
Ion Ratio Lower Upper
43 100
72 22.3 17.7 26.5





#35

Carbon Tetrachloride

Concen: 2.029 ppbv

RT: 3.768 min Scan# 1137

Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

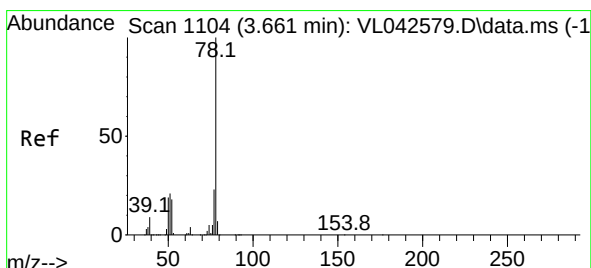
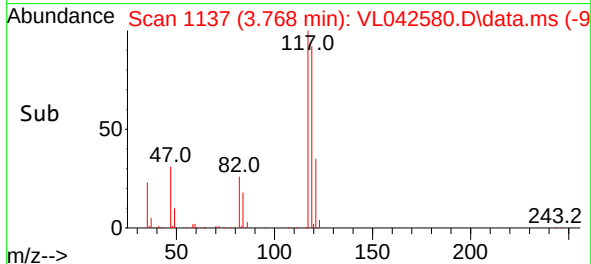
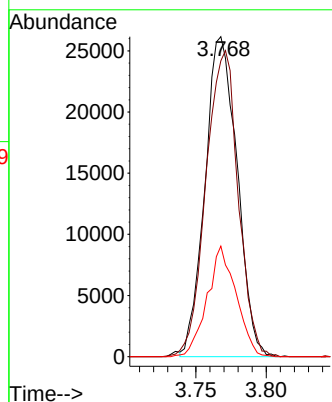
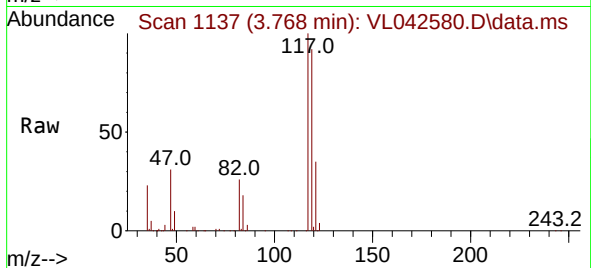
VSTDICC002

Tgt Ion:117	Resp:	4154
Ion Ratio	Lower	Upper
117	100	
119	92.4	76.8 115.2
121	34.6	24.3 36.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#36

Benzene

Concen: 2.086 ppbv

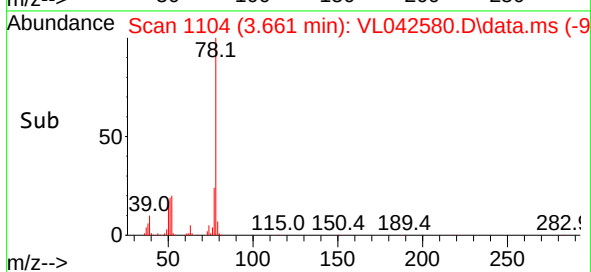
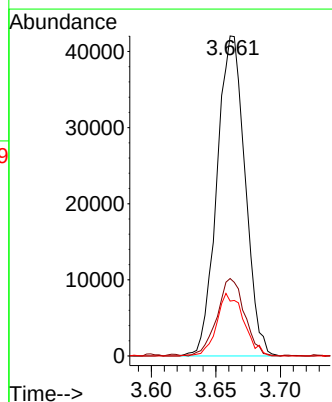
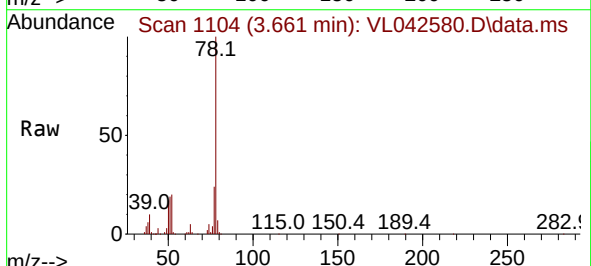
RT: 3.661 min Scan# 1104

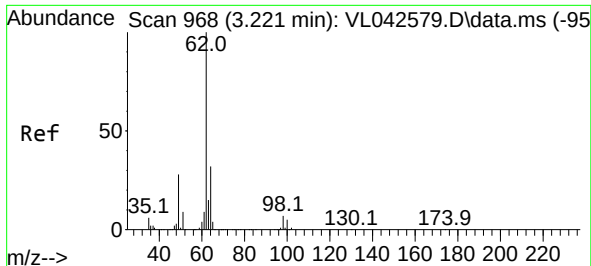
Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Tgt Ion: 78	Resp:	63709
Ion Ratio	Lower	Upper
78	100	
77	24.2	18.2 27.2
50	17.2	15.2 22.8





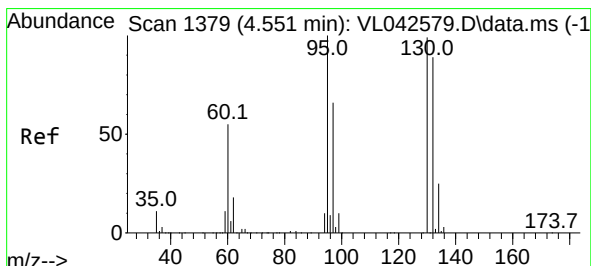
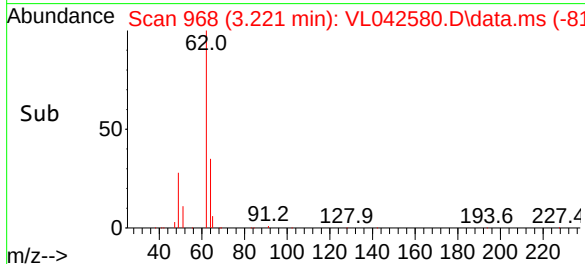
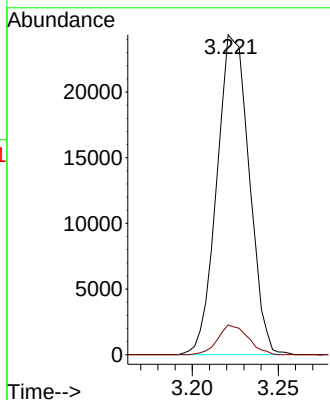
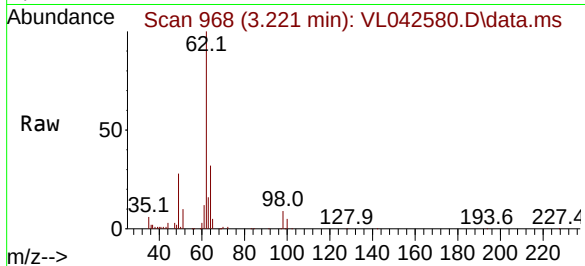
#37
1,2-Dichloroethane
Concen: 2.097 ppbv
RT: 3.221 min Scan# 90
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 3183
Ion Ratio Lower Upper
62 100
98 8.7 6.1 9.1

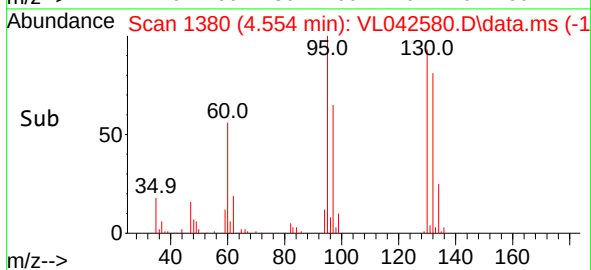
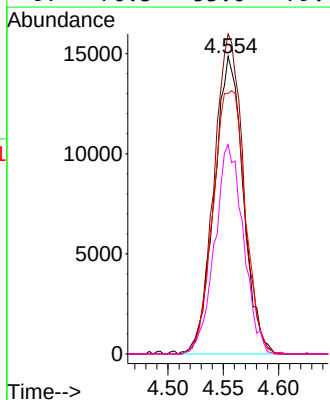
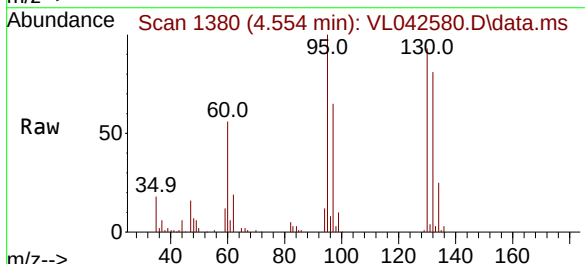
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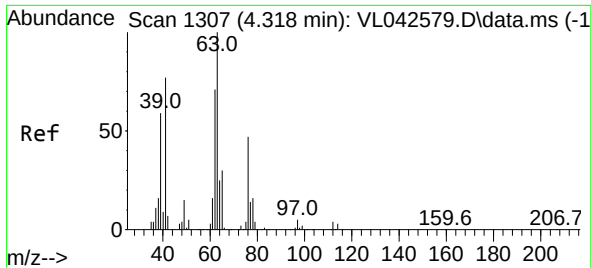
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#38
Trichloroethene
Concen: 2.075 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion:130 Resp: 27139
Ion Ratio Lower Upper
130 100
95 107.5 80.6 121.0
132 87.5 71.8 107.6
97 70.3 53.0 79.4





#39

1,2-Dichloropropane

Concen: 2.050 ppbv

RT: 4.321 min Scan# 1307

Delta R.T. 0.003 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

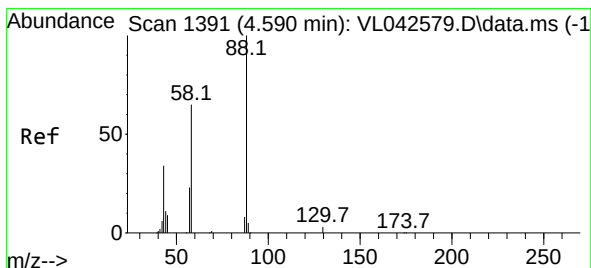
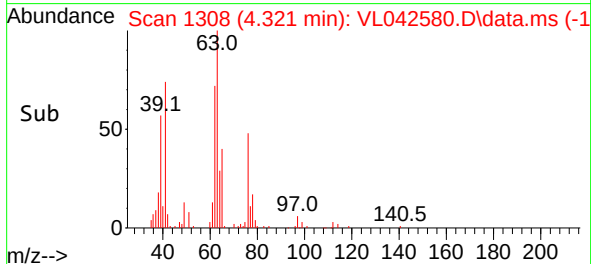
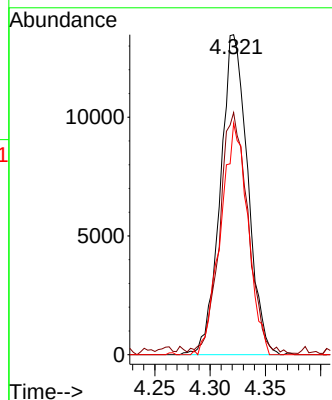
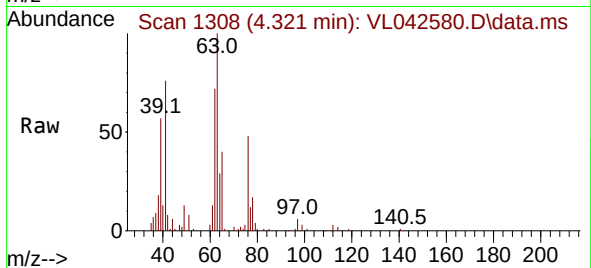
VSTDICC002

Tgt Ion: 63	Resp: 2314
Ion Ratio	Lower Upper
63 100	
41 74.8	61.8 92.6
62 72.4	56.6 85.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#40

1,4-Dioxane

Concen: 2.173 ppbv m

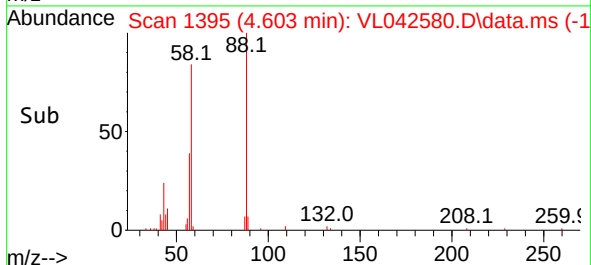
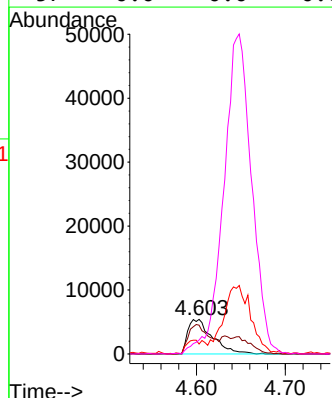
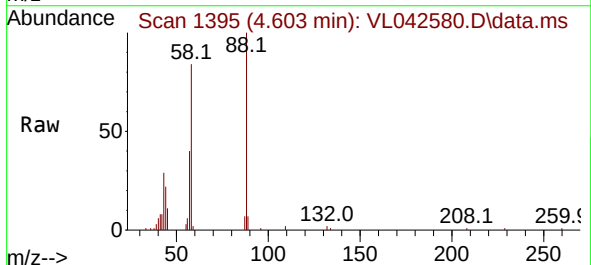
RT: 4.603 min Scan# 1395

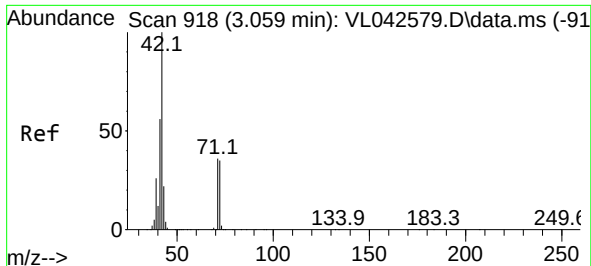
Delta R.T. 0.013 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

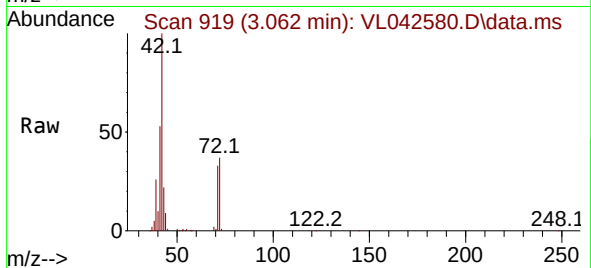
Tgt Ion: 88	Resp: 10426
Ion Ratio	Lower Upper
88 100	
58 131.2	55.8 83.8#
43 0.0	24.8 37.2#
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 2.039 ppbv
RT: 3.062 min Scan# 918
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

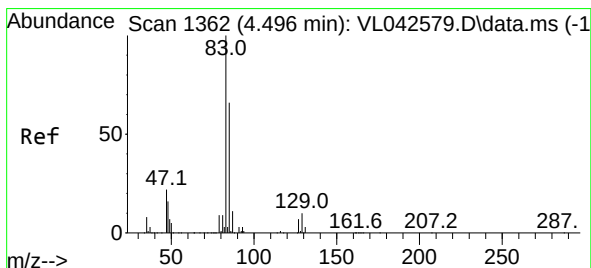
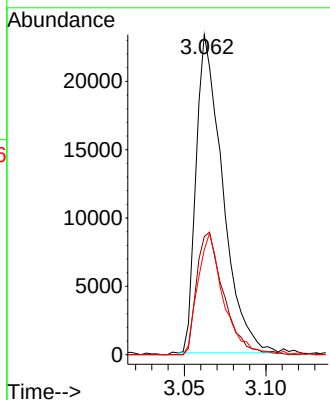
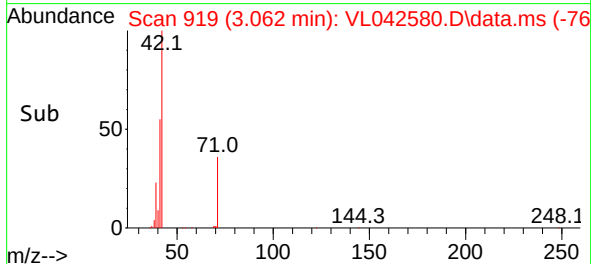
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 42 Resp: 2639
Ion Ratio Lower Upper
42 100
72 39.2 28.9 43.3
71 37.1 28.5 42.7

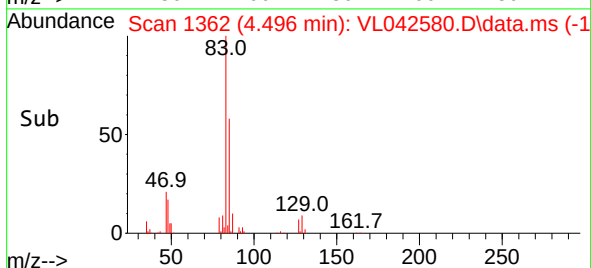
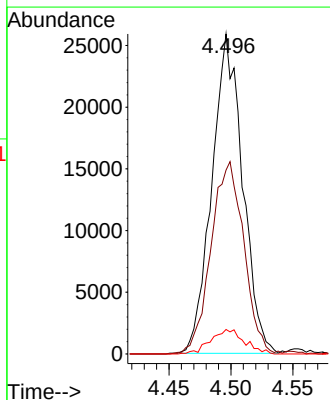
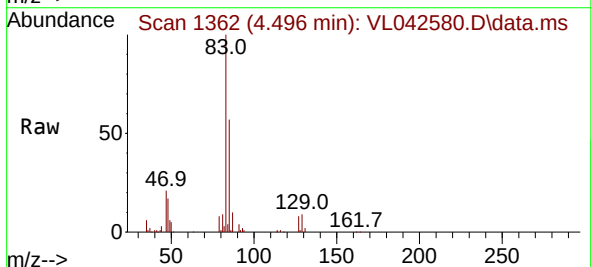
Manual Integrations
APPROVED

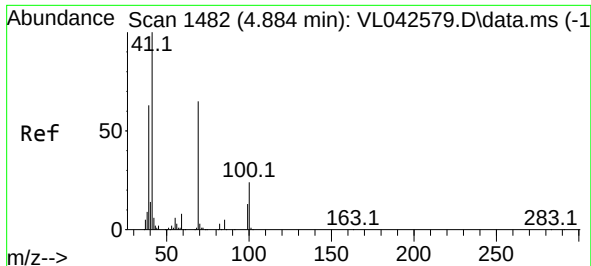
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#42
Bromodichloromethane
Concen: 2.074 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

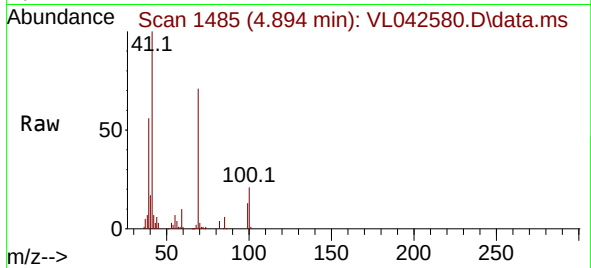
Tgt Ion: 83 Resp: 44705
Ion Ratio Lower Upper
83 100
85 57.1 52.7 79.1
127 7.7 5.8 8.6





#43
Methyl Methacrylate
Concen: 2.126 ppbv
RT: 4.894 min Scan# 1485
Delta R.T. 0.010 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

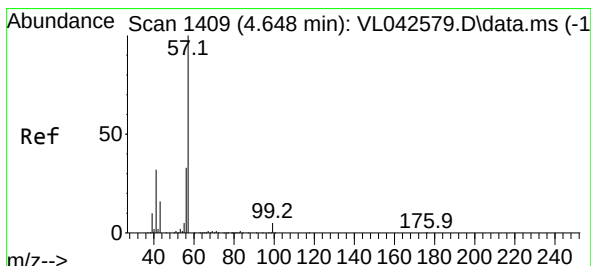
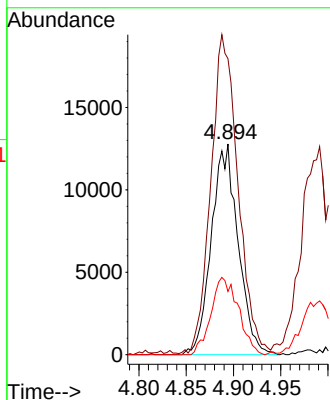
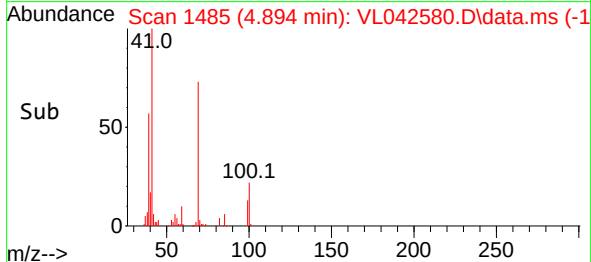
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 69 Resp: 25150
Ion Ratio Lower Upper
69 100
41 153.1 124.6 187.0
100 37.6 29.9 44.9

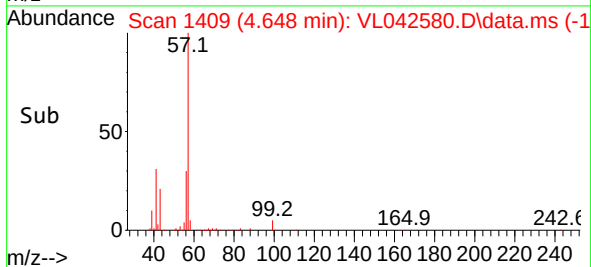
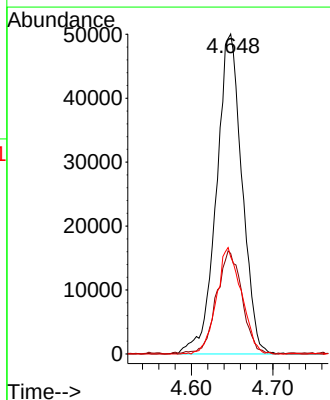
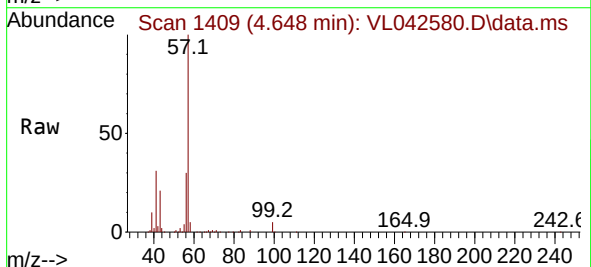
Manual Integrations
APPROVED

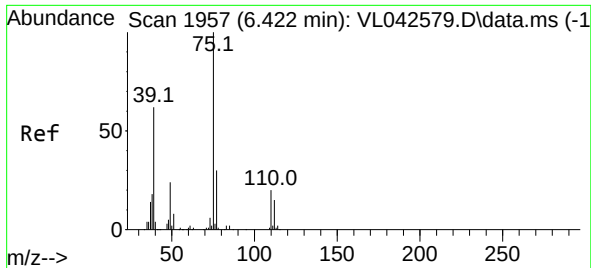
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#44
2,2,4-Trimethylpentane
Concen: 2.097 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 57 Resp: 109446
Ion Ratio Lower Upper
57 100
41 32.7 26.1 39.1
56 32.4 25.9 38.9





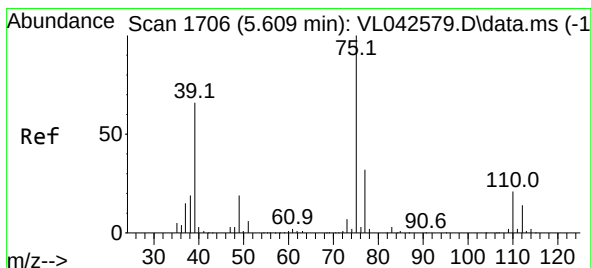
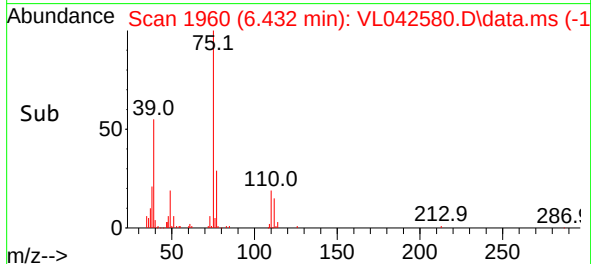
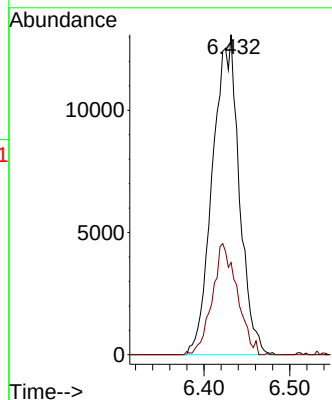
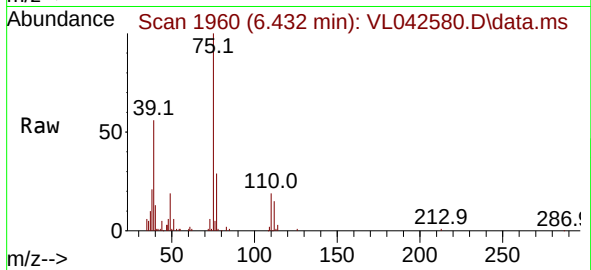
#45
 t-1,3-Dichloropropene
 Concen: 2.085 ppbv
 RT: 6.432 min Scan# 1957
 Delta R.T. 0.010 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion: 75 Resp: 2827
 Ion Ratio Lower Upper
 75 100
 77 28.8 24.2 36.2

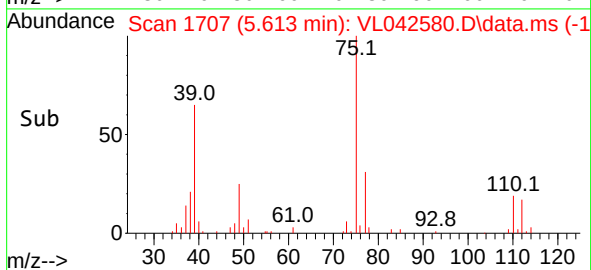
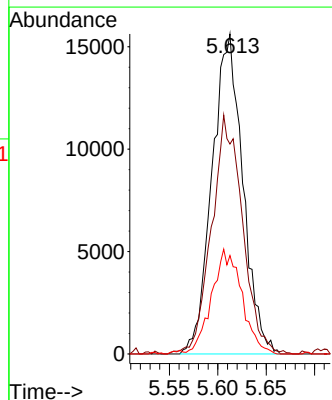
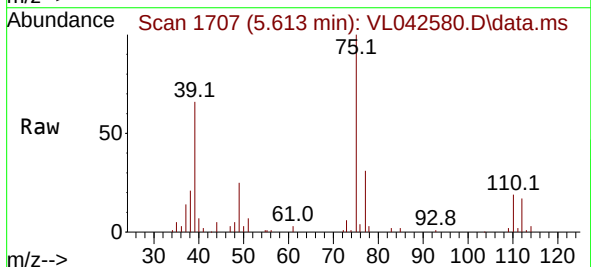
Manual Integrations
 APPROVED

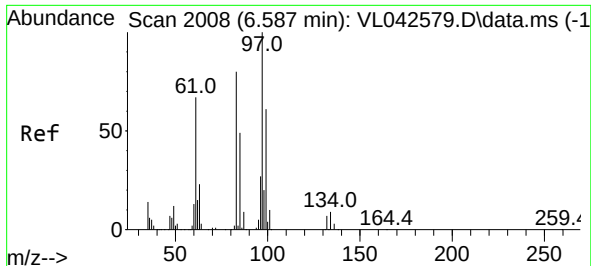
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#46
 cis-1,3-Dichloropropene
 Concen: 2.027 ppbv
 RT: 5.613 min Scan# 1707
 Delta R.T. 0.003 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

Tgt Ion: 75 Resp: 34445
 Ion Ratio Lower Upper
 75 100
 39 64.9 52.7 79.1
 77 30.7 25.8 38.8





#47

1,1,2-Trichloroethane

Concen: 2.092 ppbv

RT: 6.590 min Scan# 2008

Delta R.T. 0.003 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

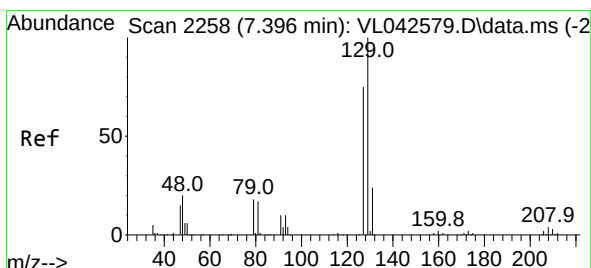
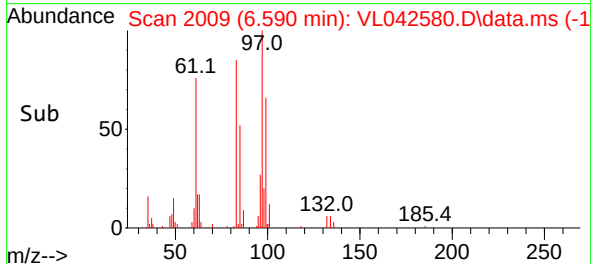
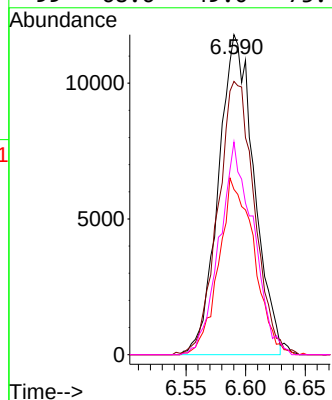
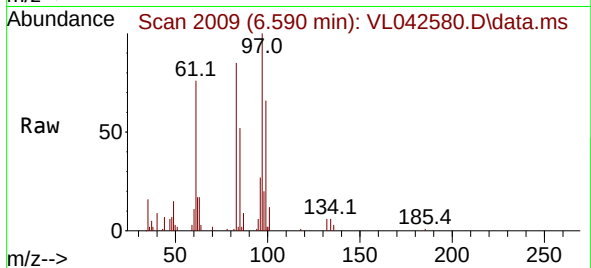
VSTDICC002

Tgt Ion: 97	Resp: 2445
Ion Ratio	Lower Upper
97 100	
83 84.9	63.9 95.9
85 51.7	39.2 58.8
99 68.6	49.0 73.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#48

Dibromochloromethane

Concen: 2.103 ppbv

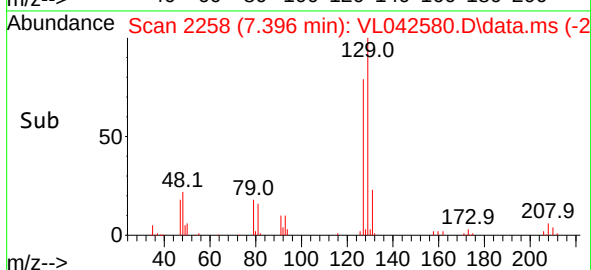
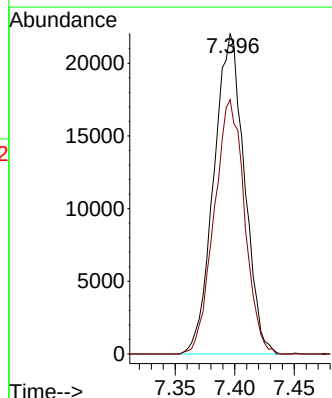
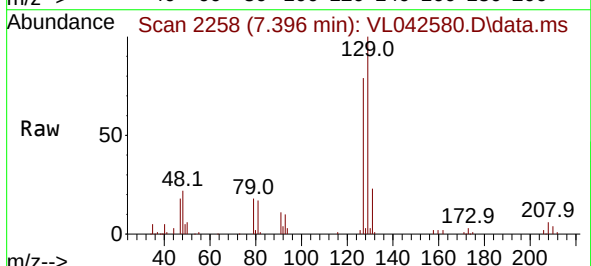
RT: 7.396 min Scan# 2258

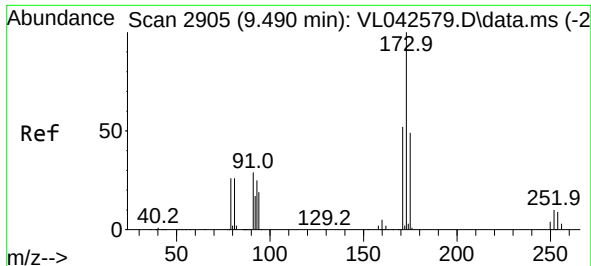
Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

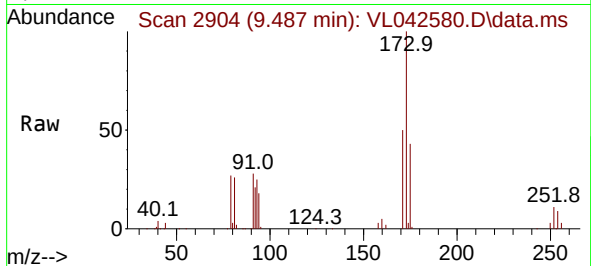
Tgt Ion:129	Resp: 39361
Ion Ratio	Lower Upper
129 100	
127 78.5	39.0 116.9





#49
Bromoform
Concen: 2.122 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. -0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

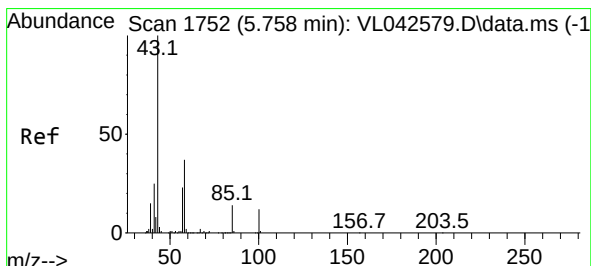
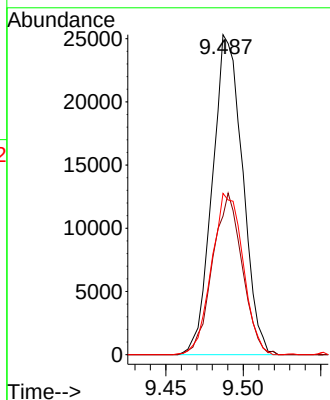
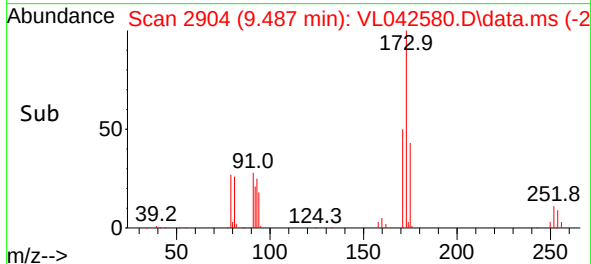
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion:173 Resp: 34270
Ion Ratio Lower Upper
173 100
175 49.6 38.7 58.1
171 52.5 41.2 61.8

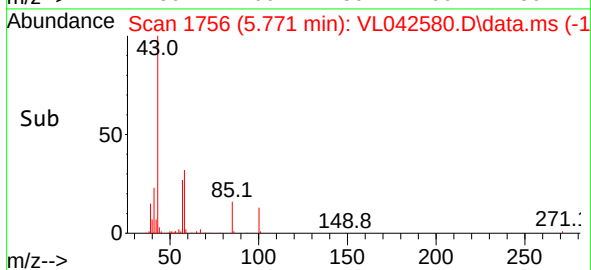
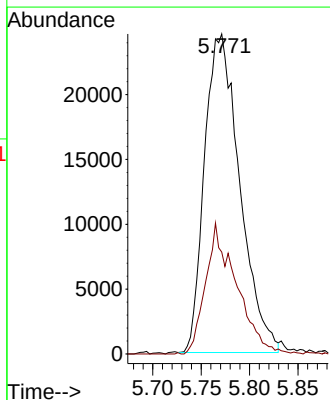
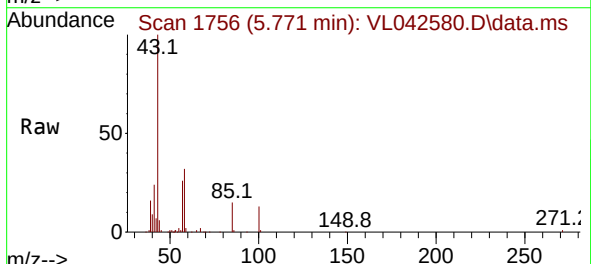
Manual Integrations
APPROVED

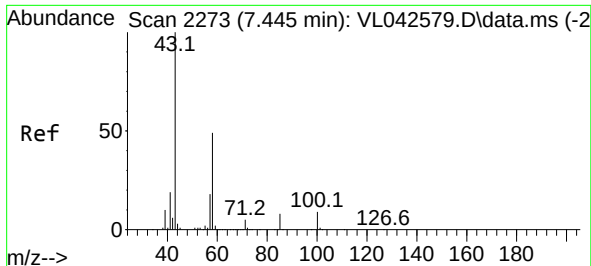
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#50
4-Methyl-2-Pentanone
Concen: 2.018 ppbv
RT: 5.771 min Scan# 1756
Delta R.T. 0.013 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 43 Resp: 62167
Ion Ratio Lower Upper
43 100
58 36.2 28.3 42.5





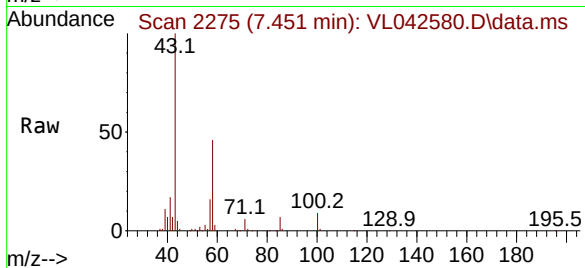
#51
2-Hexanone
Concen: 2.100 ppbv
RT: 7.451 min Scan# 2107
Delta R.T. 0.007 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

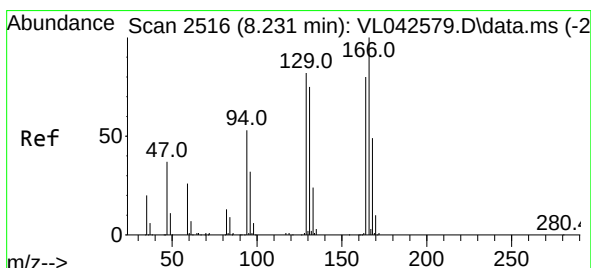
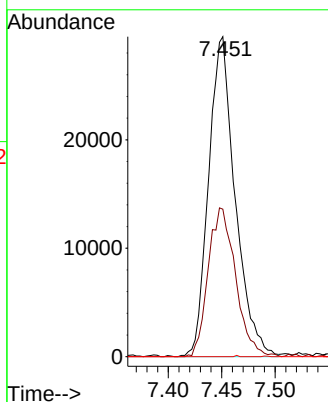
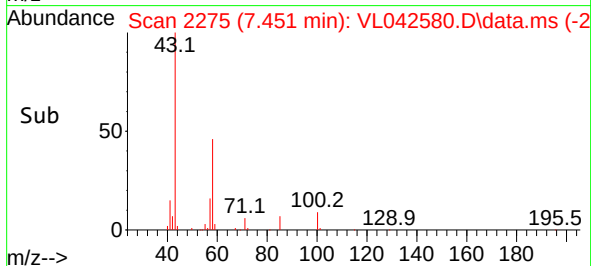


Tgt Ion: 43 Resp: 51074
Ion Ratio Lower Upper
43 100
58 47.9 39.9 59.9
98 0.0 0.1 0.1

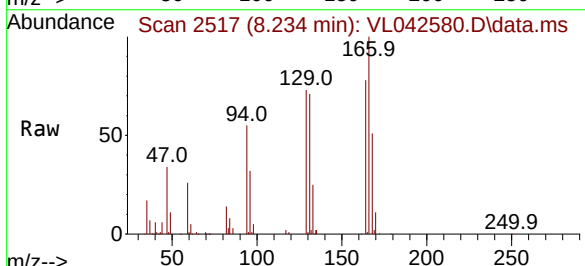
Manual Integrations

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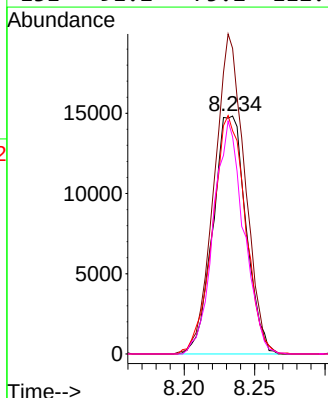
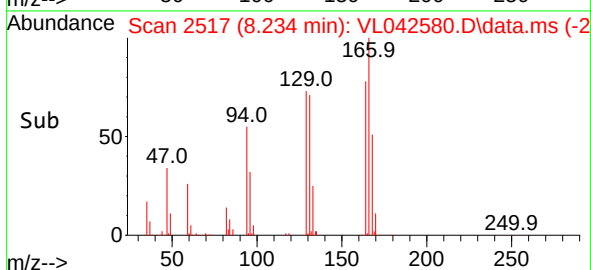
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

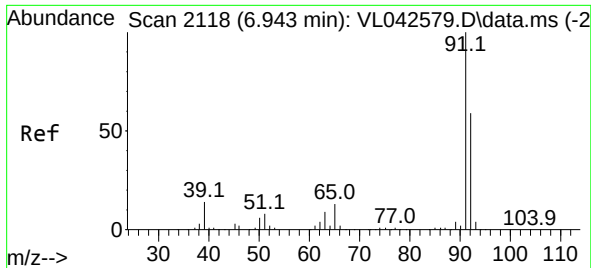


#52
Tetrachloroethene
Concen: 2.121 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43



Tgt Ion:164 Resp: 24205
Ion Ratio Lower Upper
164 100
166 127.9 100.0 150.0
129 93.8 82.2 123.4
131 91.2 75.2 112.8





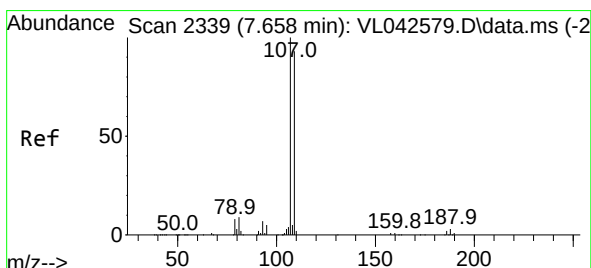
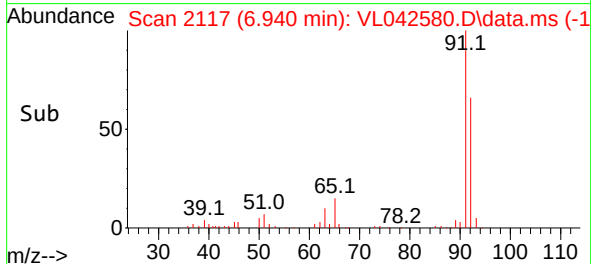
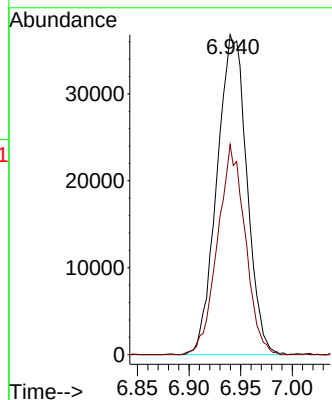
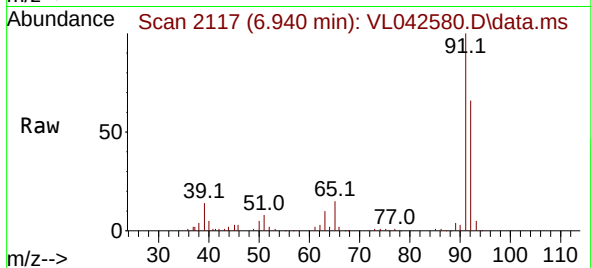
#53
Toluene
Concen: 2.104 ppbv
RT: 6.940 min Scan# 2118
Delta R.T. -0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 74240
Ion Ratio Lower Upper
91 100
92 60.9 48.2 72.4

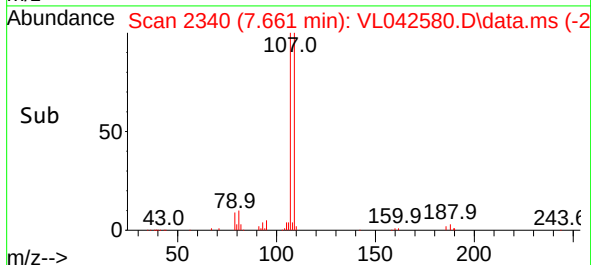
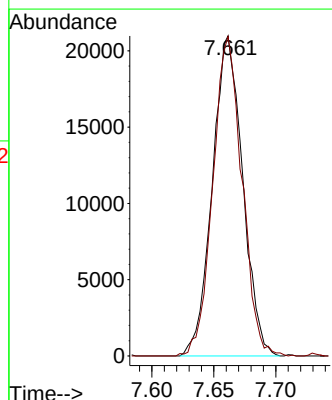
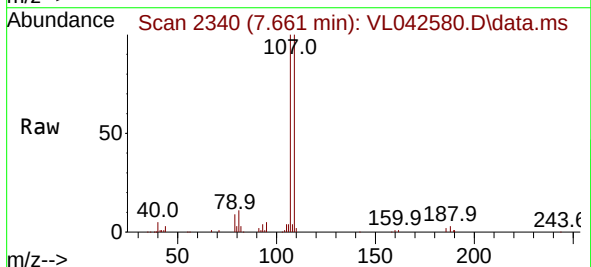
Manual Integrations
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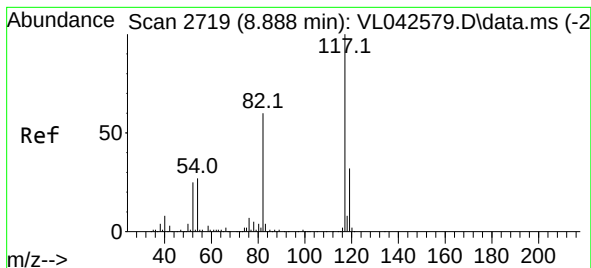
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#54
1,2-Dibromoethane
Concen: 2.063 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion:107 Resp: 35750
Ion Ratio Lower Upper
107 100
109 99.0 74.3 111.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2719

Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

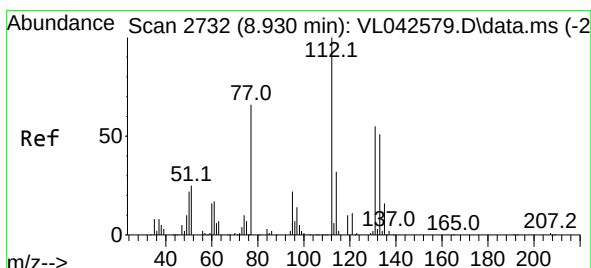
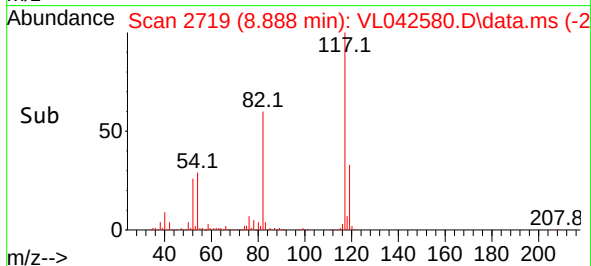
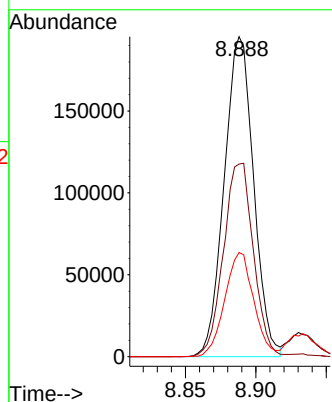
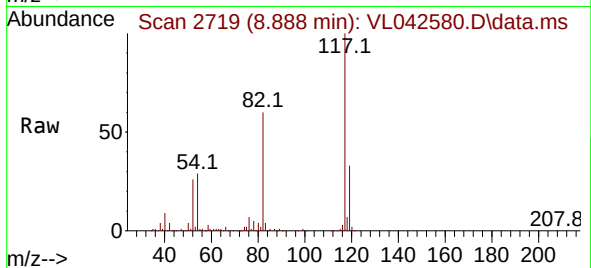
VSTDIC002

Tgt Ion:	117	Resp:	28419
Ion Ratio	Lower	Upper	
117	100		
82	62.3	51.2	76.8
119	32.8	26.3	39.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 2.101 ppbv

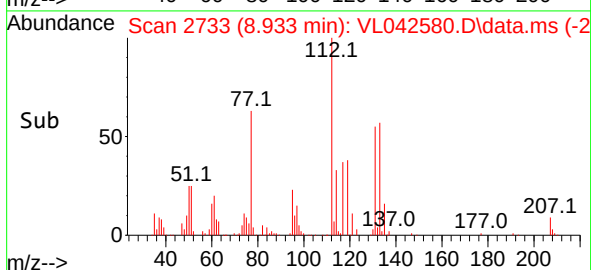
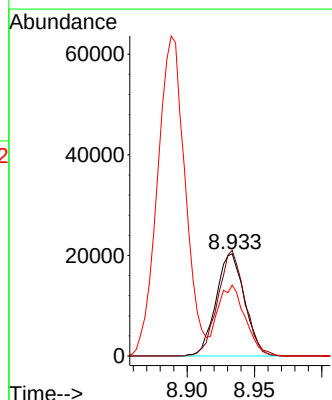
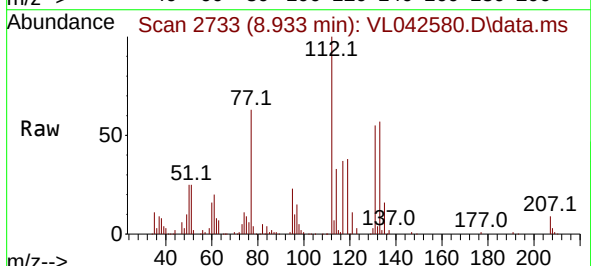
RT: 8.933 min Scan# 2733

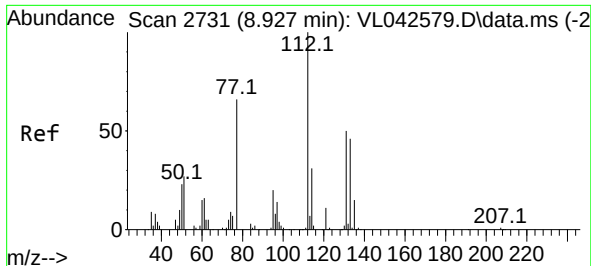
Delta R.T. 0.003 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Tgt Ion:	131	Resp:	30026
Ion Ratio	Lower	Upper	
131	100		
133	97.4	75.0	112.6
119	64.5	50.8	76.2





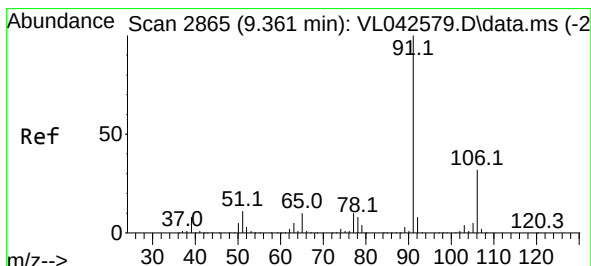
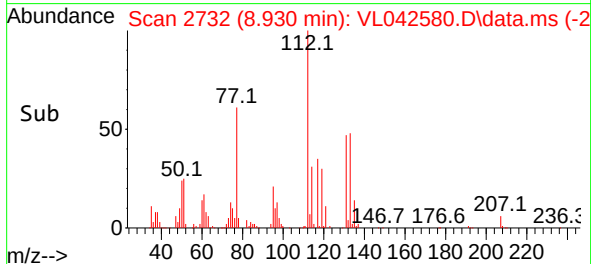
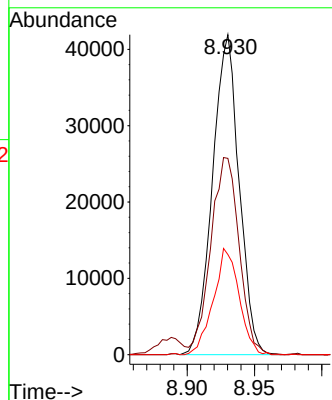
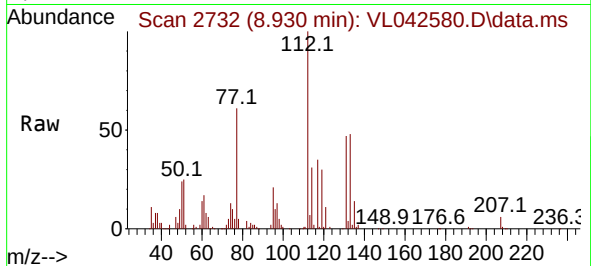
#57
Chlorobenzene
Concen: 2.088 ppbv
RT: 8.930 min Scan# 2731
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 112 Resp: 5761
Ion Ratio Lower Upper
112 100
77 61.2 53.5 80.3
114 31.3 27.8 34.0

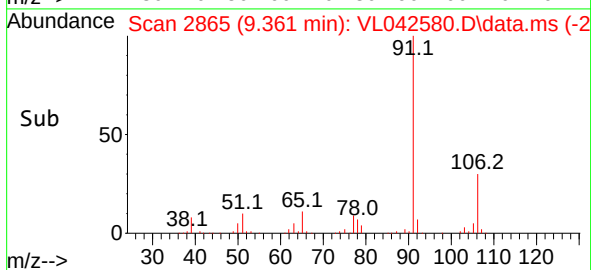
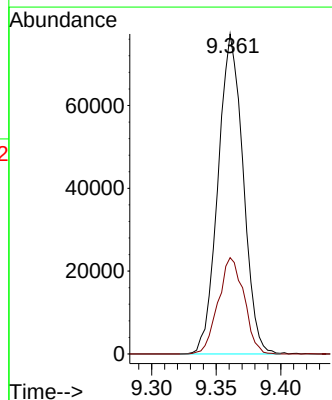
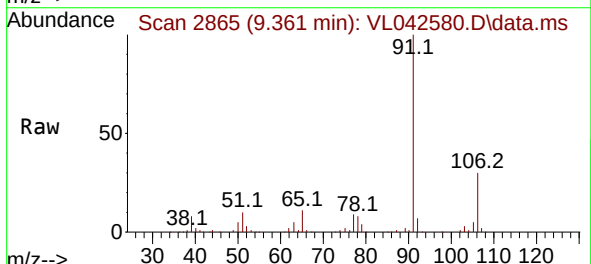
Manual Integrations
APPROVED

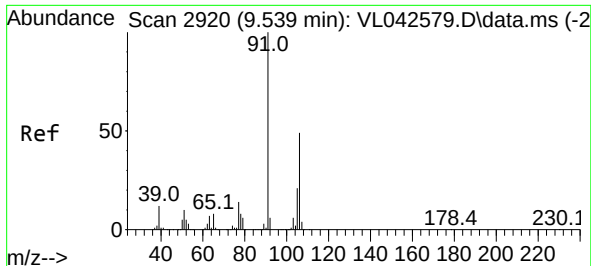
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#58
Ethyl Benzene
Concen: 2.161 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 91 Resp: 104171
Ion Ratio Lower Upper
91 100
106 30.1 25.9 38.9





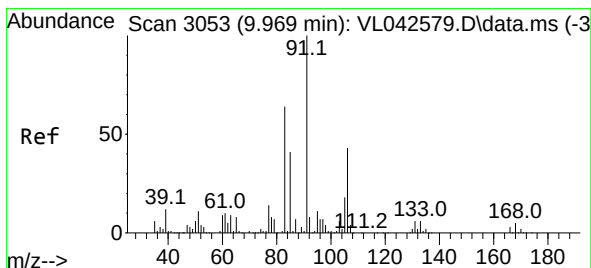
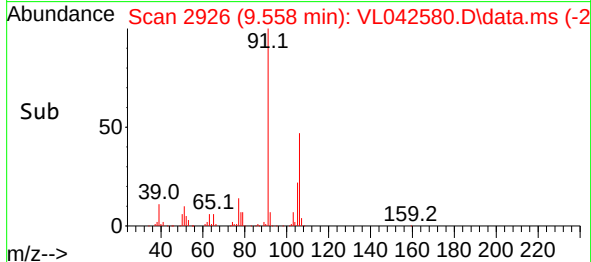
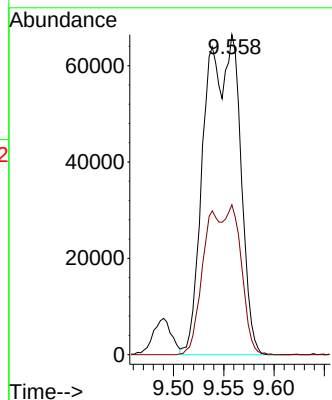
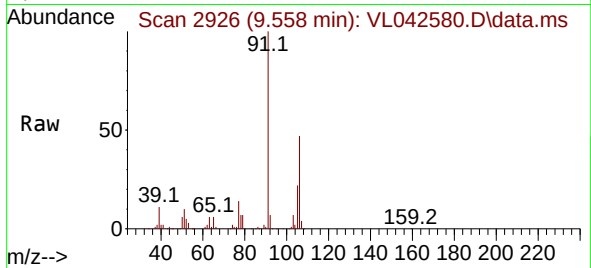
#59
m/p-Xylene
Concen: 4.288 ppbv m
RT: 9.558 min Scan# 2926
Delta R.T. 0.019 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 162694
Ion Ratio Lower Upper
91 100
106 0.0 38.8 58.2

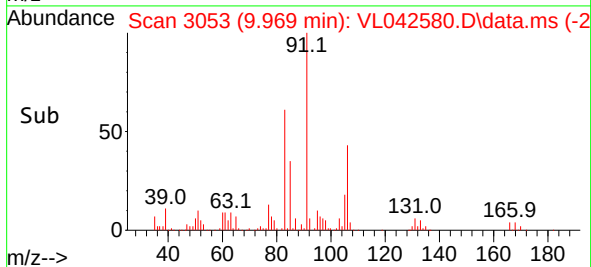
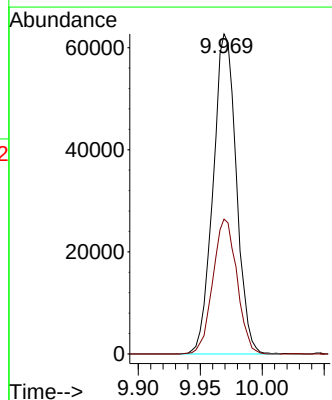
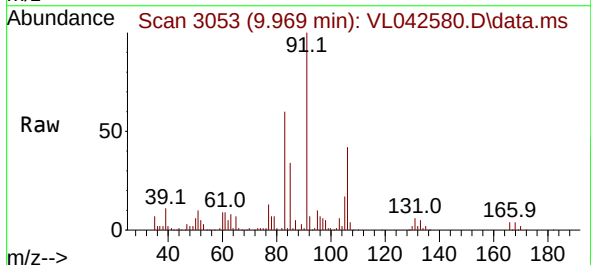
Manual Integrations
APPROVED

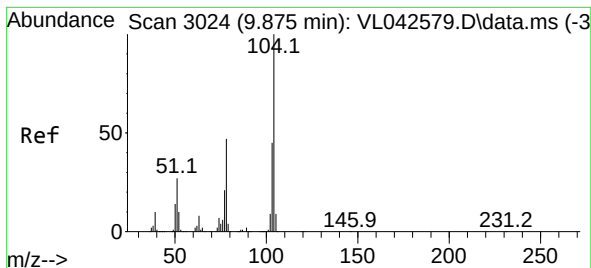
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#60
o-Xylene
Concen: 2.164 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 91 Resp: 81886
Ion Ratio Lower Upper
91 100
106 43.6 22.9 68.5





#61

Styrene

Concen: 2.154 ppbv

RT: 9.879 min Scan# 3024

Delta R.T. 0.003 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

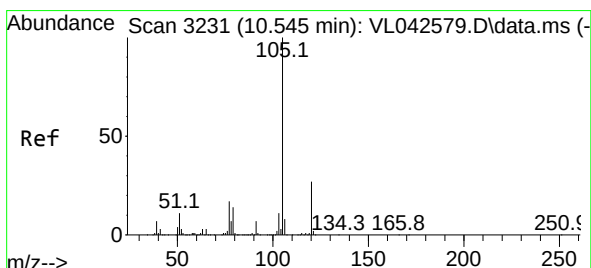
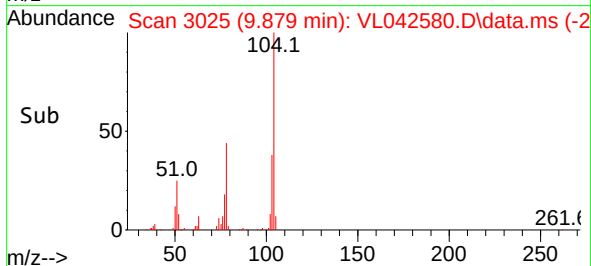
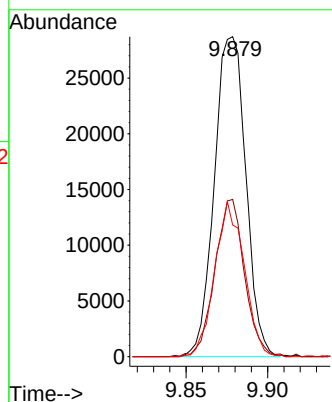
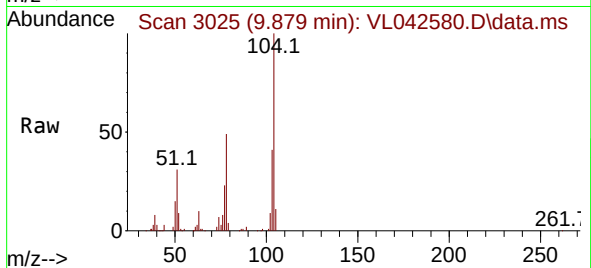
VSTDICC002

Tgt Ion:104	Resp:	3854
Ion Ratio	Lower	Upper
104	100	
78	46.5	38.2 57.4
103	45.3	36.7 55.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#62

Isopropylbenzene

Concen: 2.157 ppbv

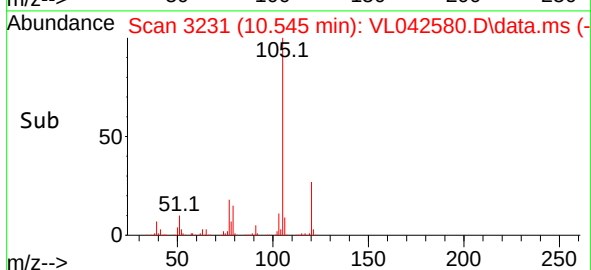
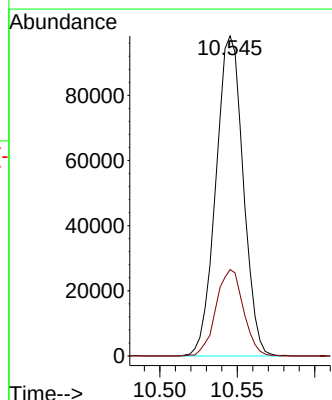
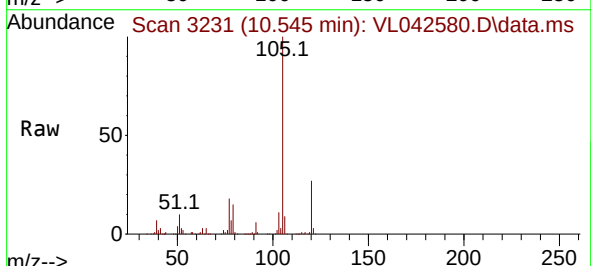
RT: 10.545 min Scan# 3231

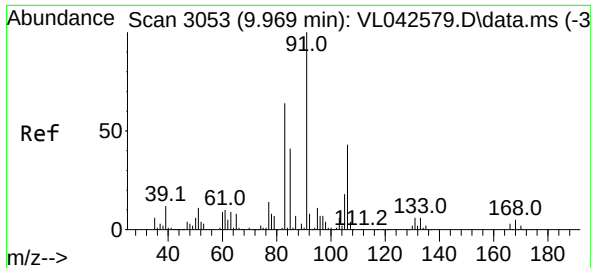
Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Tgt Ion:105	Resp:	120576
Ion Ratio	Lower	Upper
105	100	
120	27.1	20.9 31.3





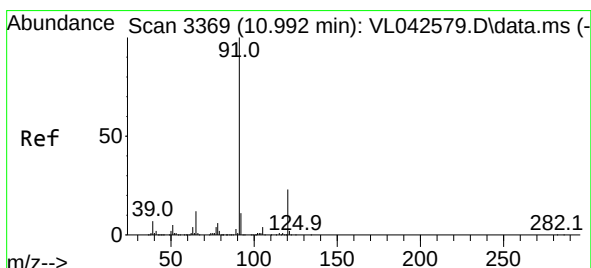
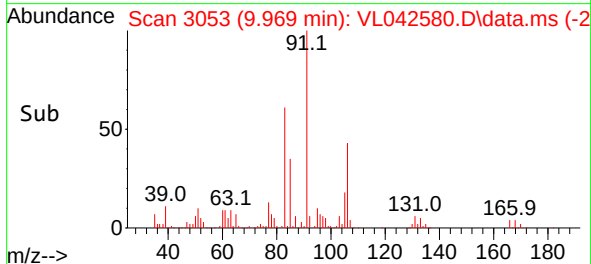
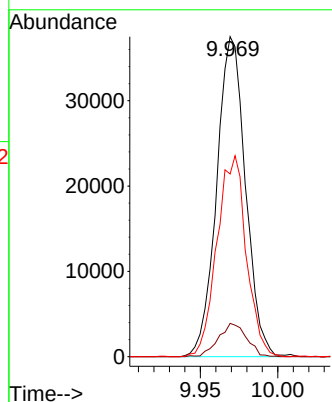
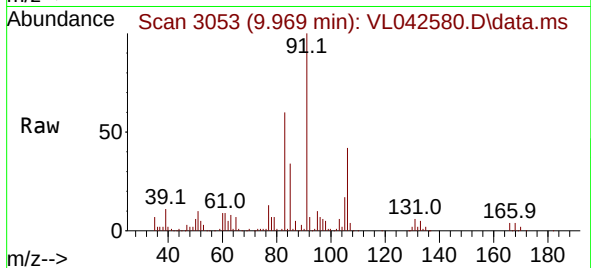
#63
1,1,2,2-Tetrachloroethane
Concen: 2.020 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 83 Resp: 48590
Ion Ratio Lower Upper
83 100
131 10.2 4.8 14.4
85 63.8 32.5 97.4

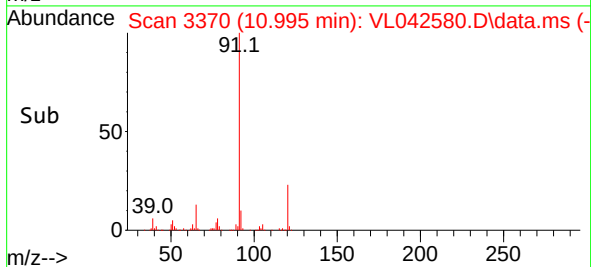
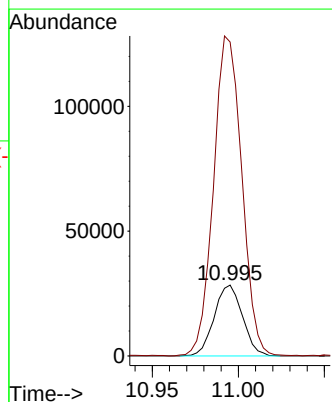
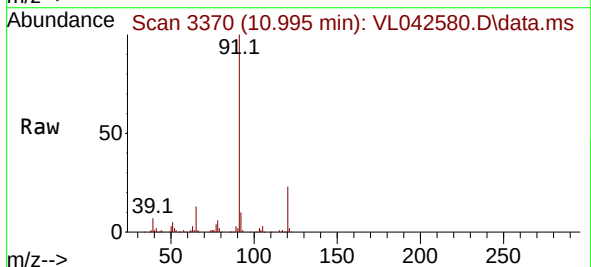
Manual Integrations
APPROVED

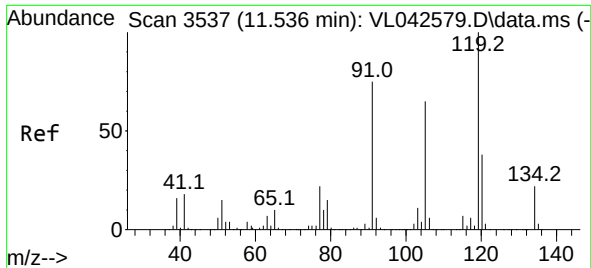
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#64
n-propylbenzene
Concen: 2.163 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

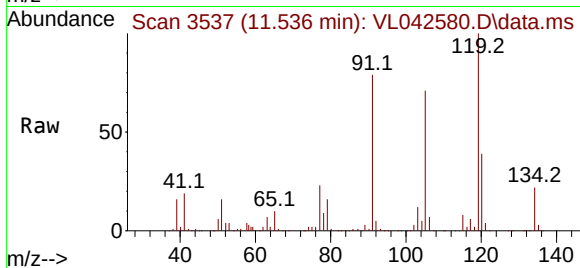
Tgt Ion:120 Resp: 32406
Ion Ratio Lower Upper
120 100
91 453.9 363.0 544.6





#65
tert-Butylbenzene
Concen: 2.176 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

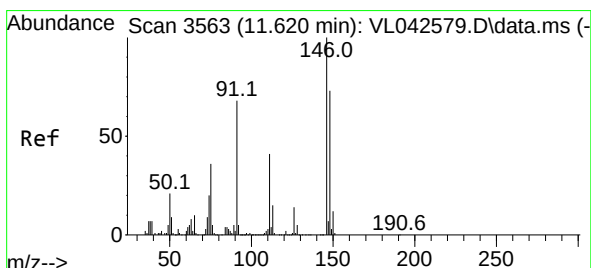
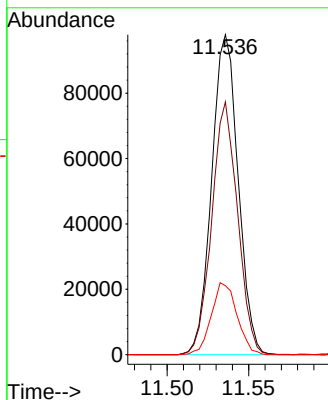
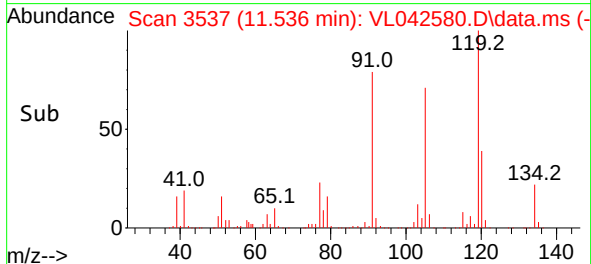
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



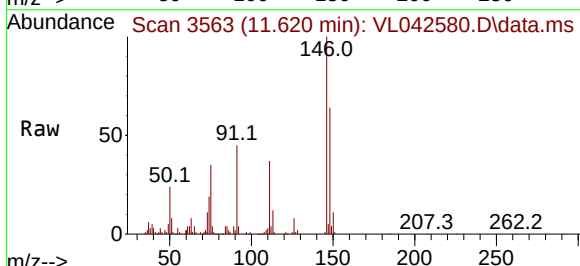
Tgt Ion: 119 Resp: 110380
Ion Ratio Lower Upper
119 100
91 77.2 61.1 91.7
134 21.9 17.4 26.2

Manual Integrations
APPROVED

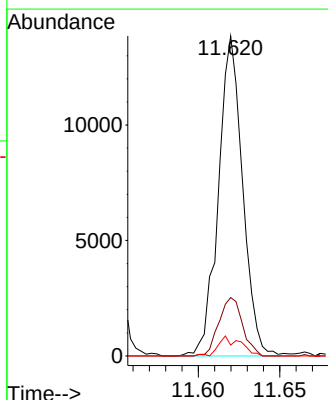
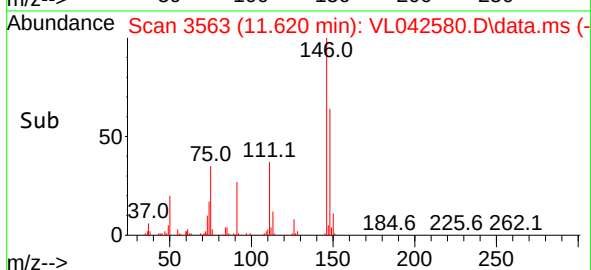
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

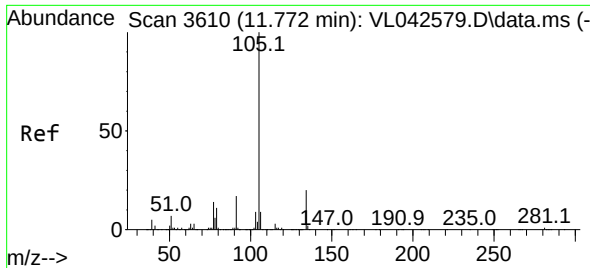


#66
Benzyl Chloride
Concen: 2.190 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43



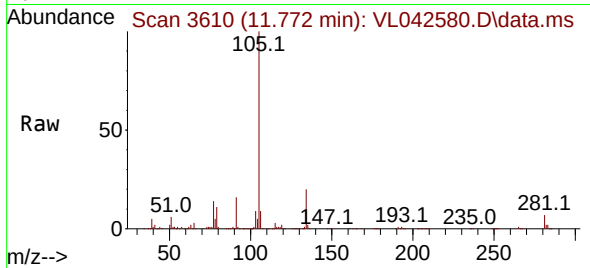
Tgt Ion: 91 Resp: 14327
Ion Ratio Lower Upper
91 100
126 17.8 15.1 22.7
128 5.7 5.0 7.6





#67
 sec-Butylbenzene
 Concen: 2.151 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

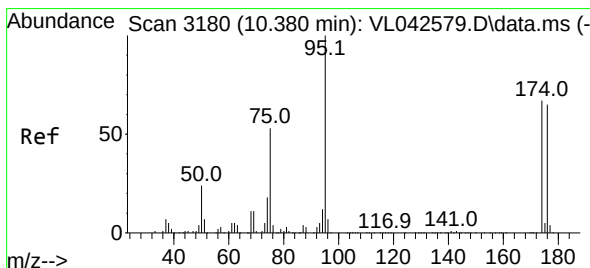
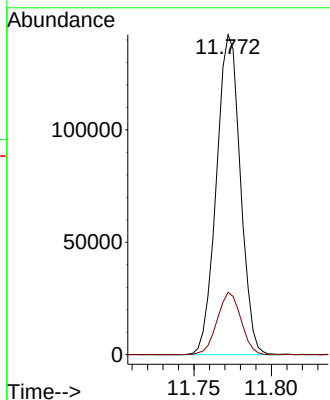
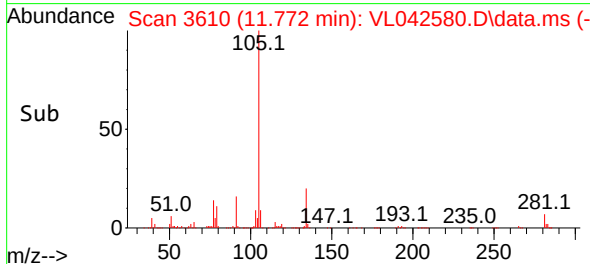
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002



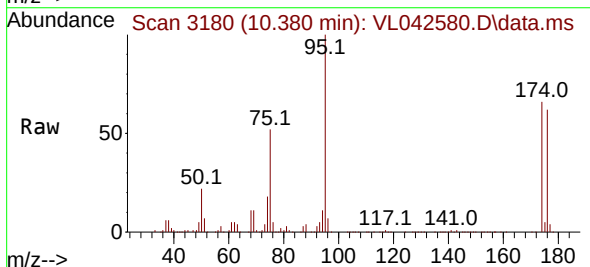
Tgt Ion: 105 Resp: 15340
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.8 23.6

Manual Integrations
 APPROVED

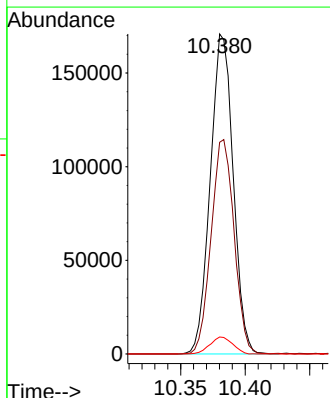
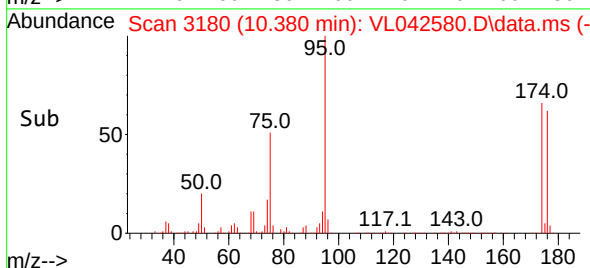
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

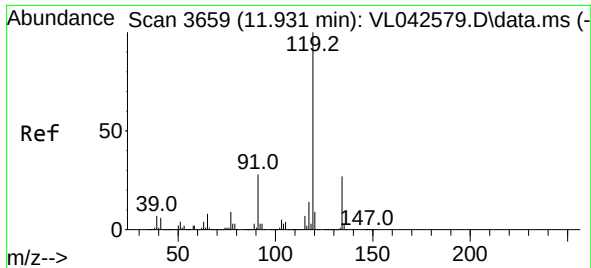


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.881 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43



Tgt Ion: 95 Resp: 210508
 Ion Ratio Lower Upper
 95 100
 174 67.4 53.1 79.7
 175 5.3 4.2 6.2





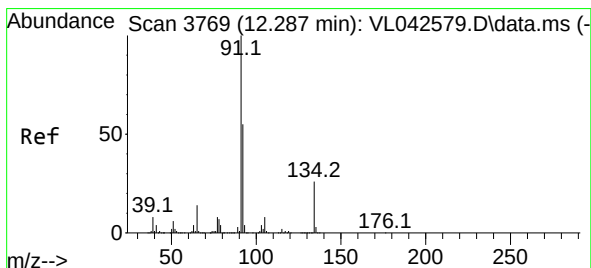
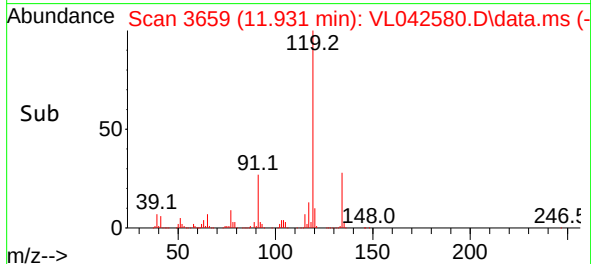
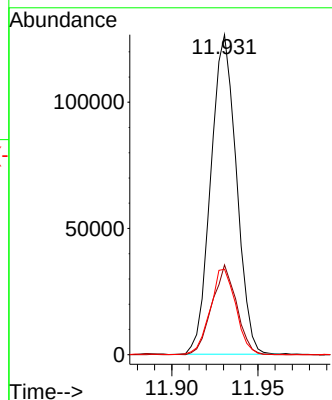
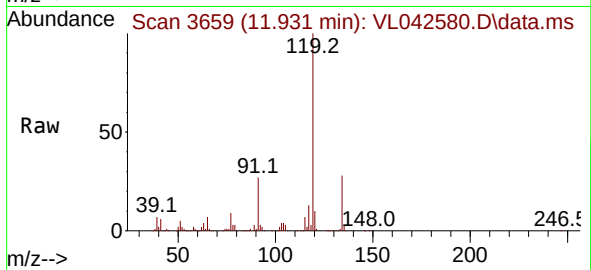
#69
p-Isopropyltoluene
Concen: 2.188 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:	119	Resp:	13064
Ion Ratio	Lower	Upper	
119	100		
134	27.0	21.1	31.7
91	27.2	21.9	32.9

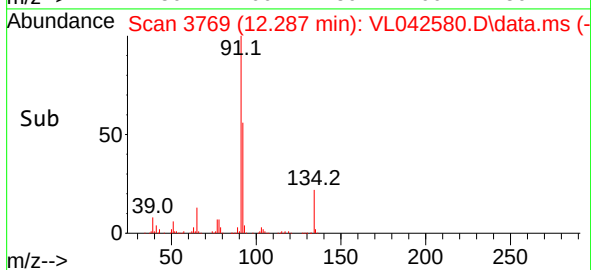
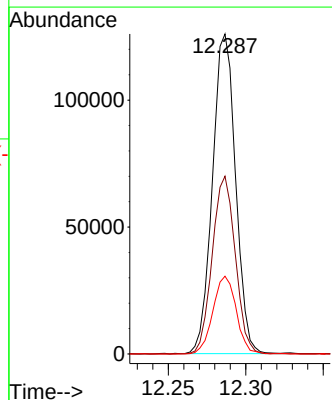
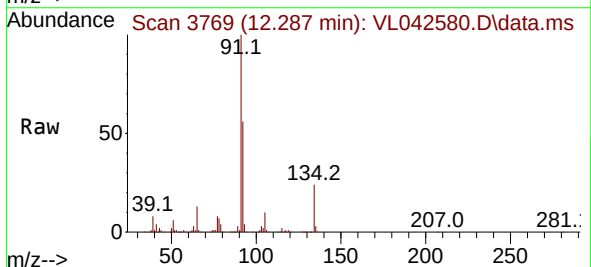
Manual Integrations
APPROVED

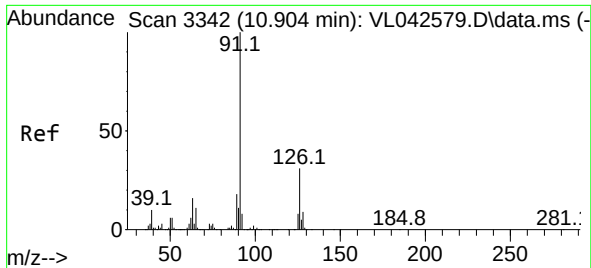
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#70
n-Butylbenzene
Concen: 2.216 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

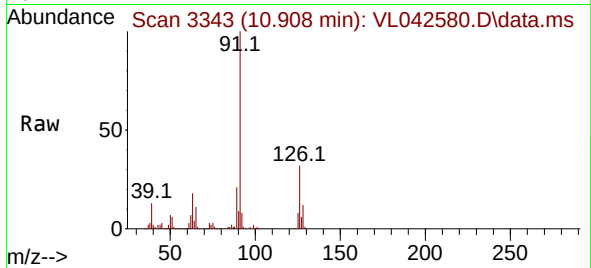
Tgt Ion:	91	Resp:	130662
Ion Ratio	Lower	Upper	
91	100		
92	55.6	44.4	66.6
134	24.6	20.1	30.1





#71
2-Chlorotoluene
Concen: 2.128 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

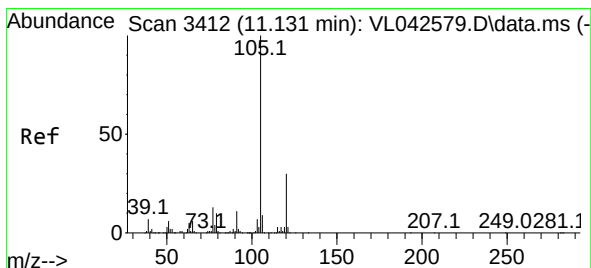
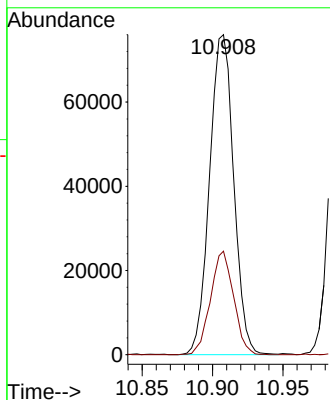
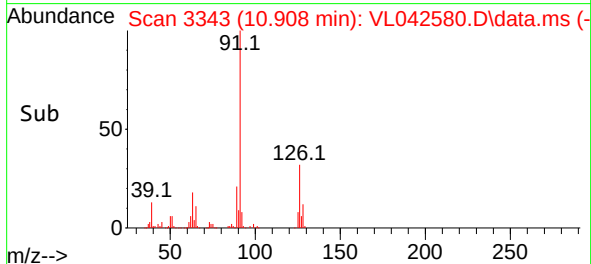
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



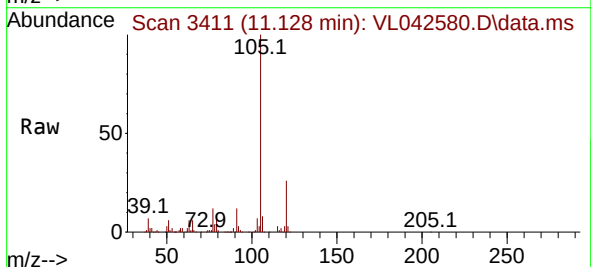
Tgt Ion: 91 Resp: 90725
Ion Ratio Lower Upper
91 100
126 30.9 12.6 50.4

Manual Integrations
APPROVED

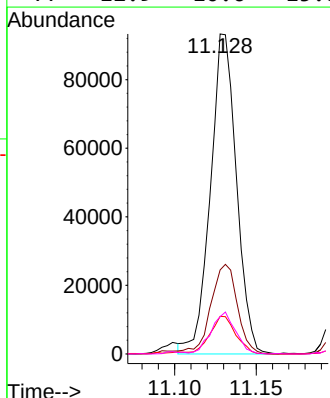
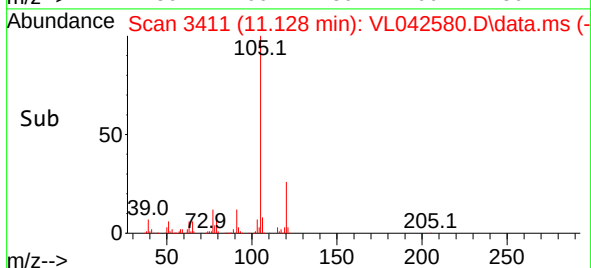
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

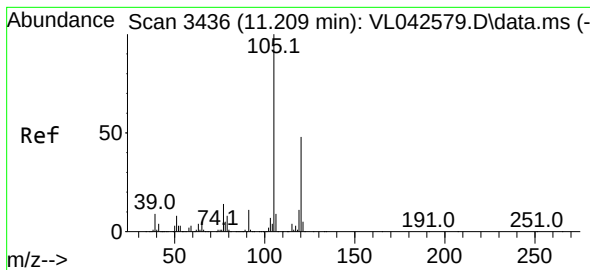


#72
4-Ethyltoluene
Concen: 2.197 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43



Tgt Ion:105 Resp: 103640
Ion Ratio Lower Upper
105 100
120 29.2 24.6 36.8
91 12.3 9.6 14.4
77 12.9 10.6 15.8





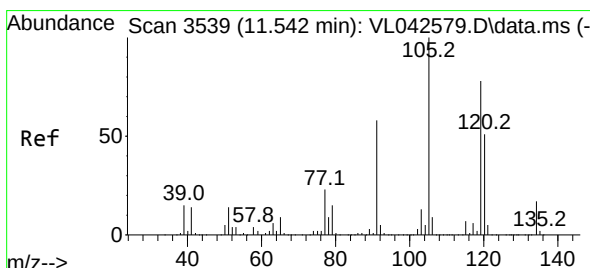
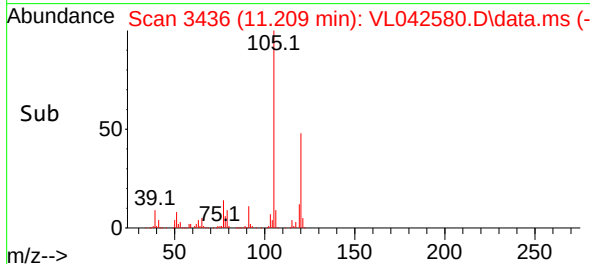
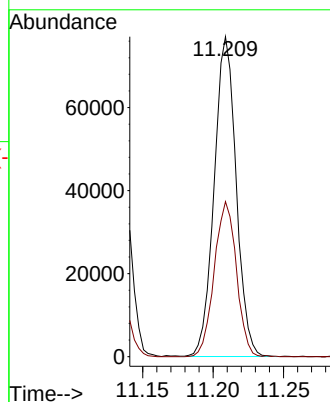
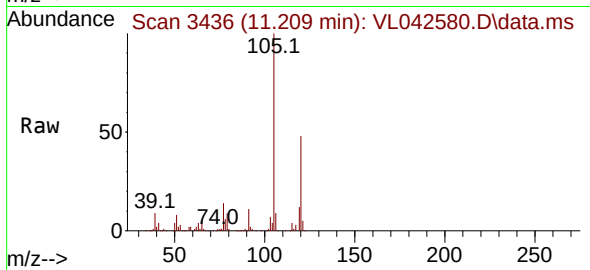
#73
1,3,5-Trimethylbenzene
Concen: 2.147 ppbv
RT: 11.209 min Scan# 3436
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 83829
Ion Ratio Lower Upper
105 100
120 48.5 38.8 58.2

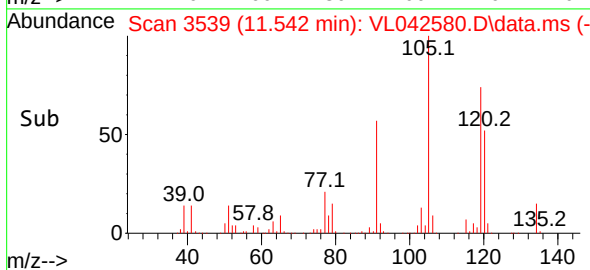
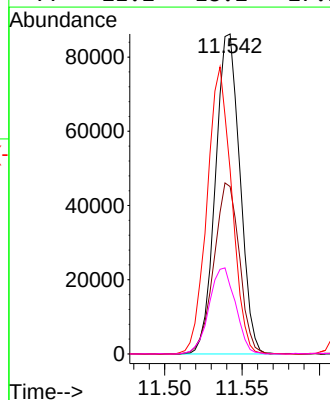
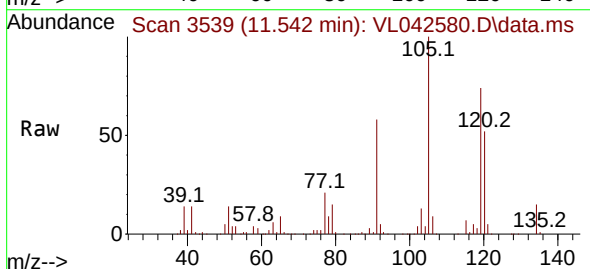
Manual Integrations
APPROVED

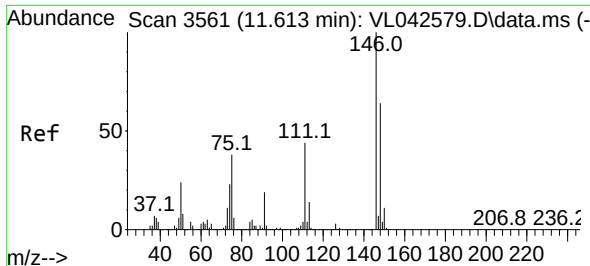
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#74
1,2,4-Trimethylbenzene
Concen: 2.186 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion:105 Resp: 94716
Ion Ratio Lower Upper
105 100
120 52.3 40.8 61.2
91 57.4 46.8 70.2
77 21.2 18.2 27.2





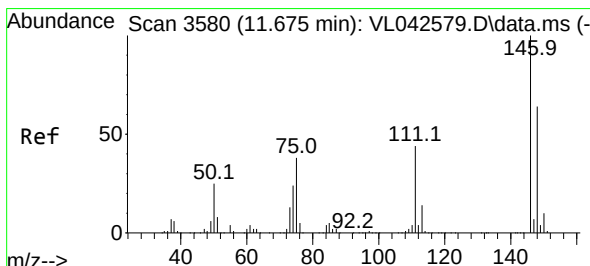
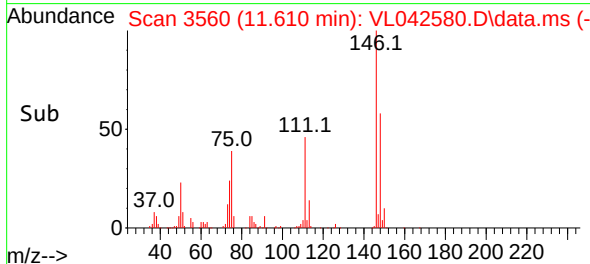
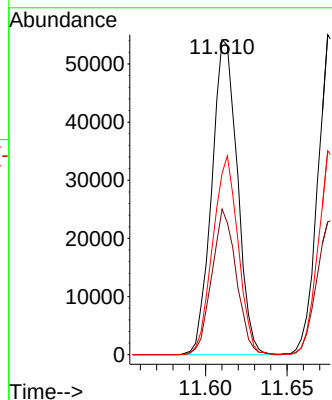
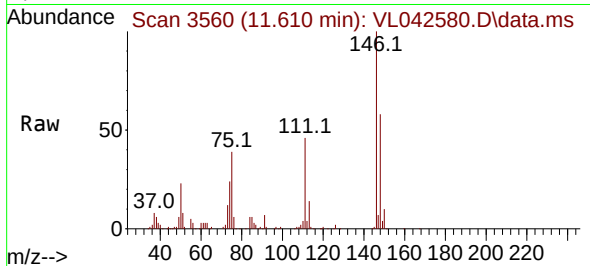
#75
1,3-Dichlorobenzene
Concen: 2.174 ppbv
RT: 11.610 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 59138
Ion Ratio Lower Upper
146 100
111 44.3 22.4 67.3
148 62.4 32.0 96.2

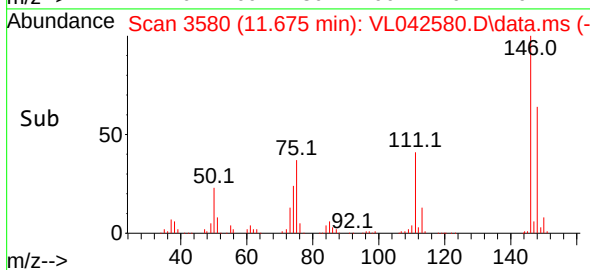
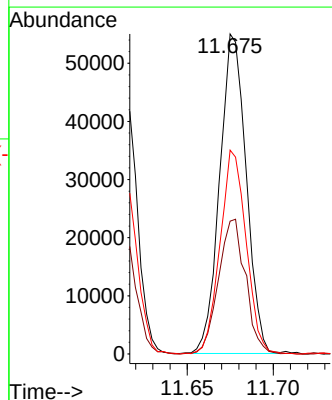
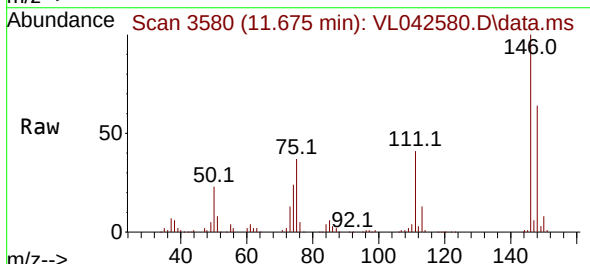
Manual Integrations
APPROVED

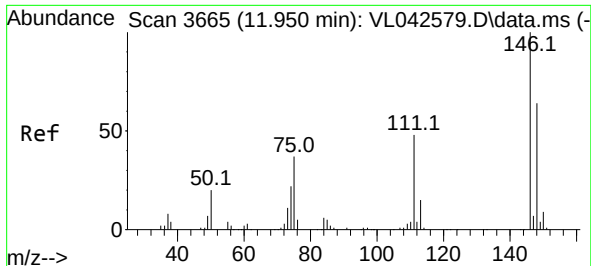
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#76
1,4-Dichlorobenzene
Concen: 2.171 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

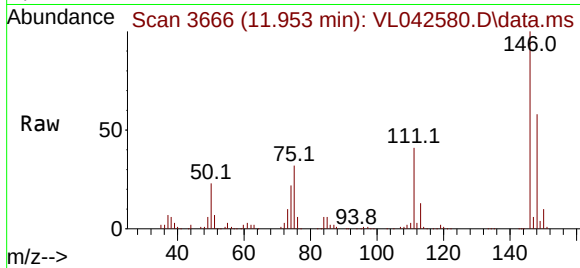
Tgt Ion:146 Resp: 58920
Ion Ratio Lower Upper
146 100
111 43.2 21.6 64.8
148 63.0 32.1 96.5





#77
1,2-Dichlorobenzene
Concen: 2.212 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

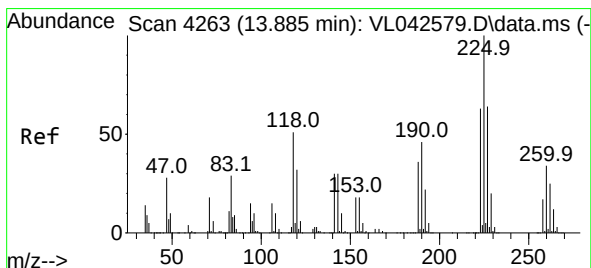
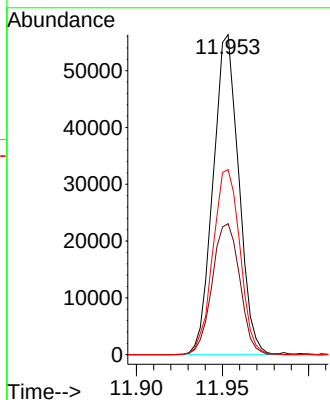
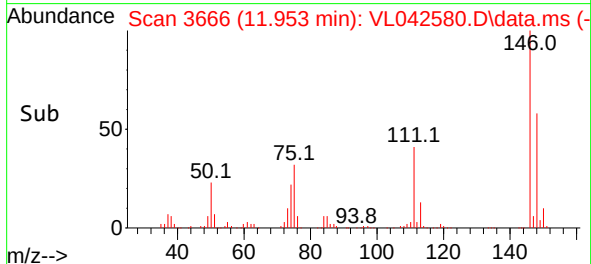
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



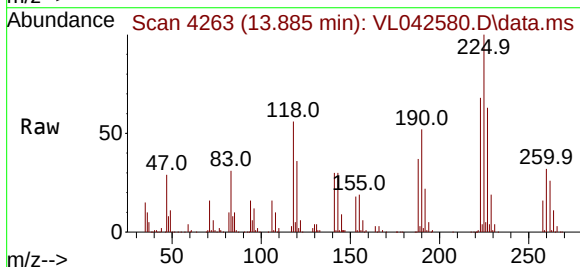
Tgt Ion:146 Resp: 58400
Ion Ratio Lower Upper
146 100
111 44.1 23.1 69.3
148 61.2 32.1 96.3

Manual Integrations
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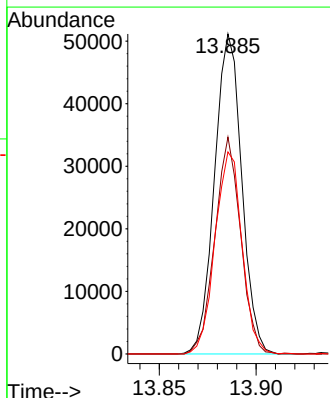
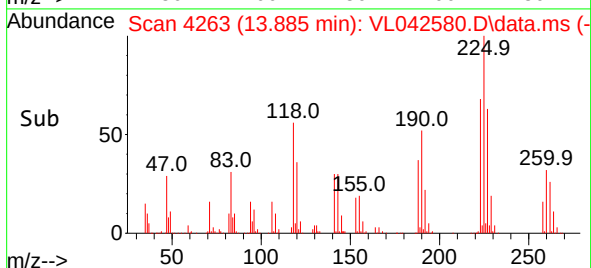
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

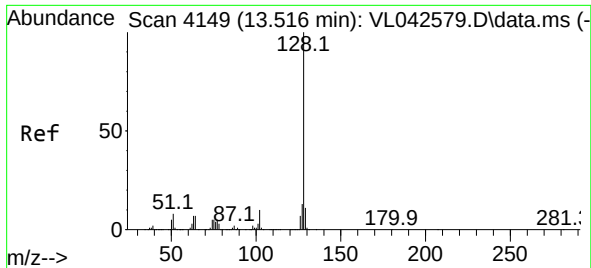


#78
Hexachloro-1,3-Butadiene
Concen: 2.288 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43



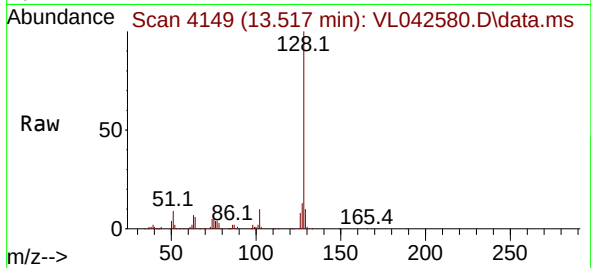
Tgt Ion:225 Resp: 49999
Ion Ratio Lower Upper
225 100
223 64.1 50.2 75.4
227 62.5 51.1 76.7





#79
Naphthalene
Concen: 2.494 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

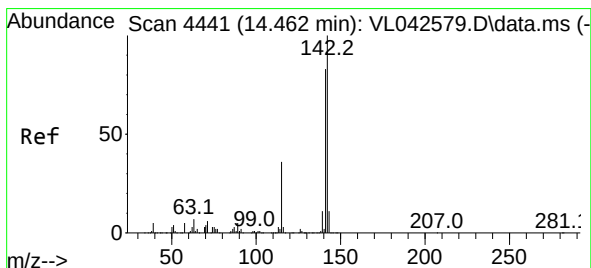
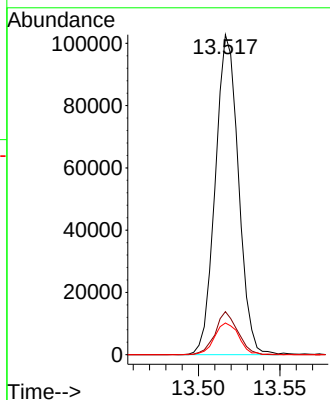
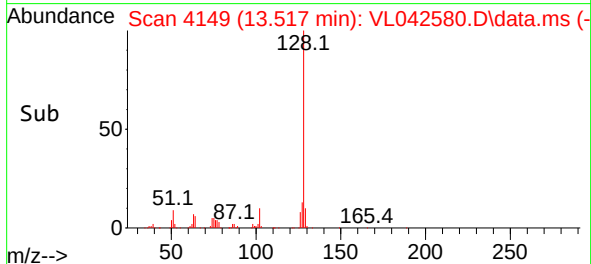
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



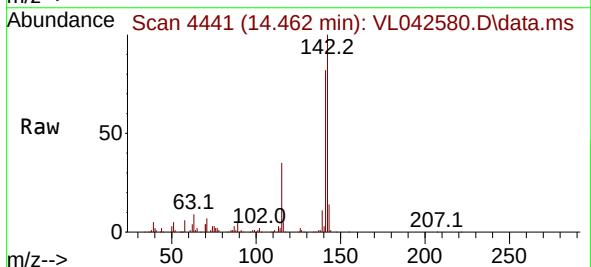
Tgt Ion:128 Resp: 10145
Ion Ratio Lower Upper
128 100
127 13.5 10.2 15.4
129 9.9 8.8 13.2

Manual Integrations
APPROVED

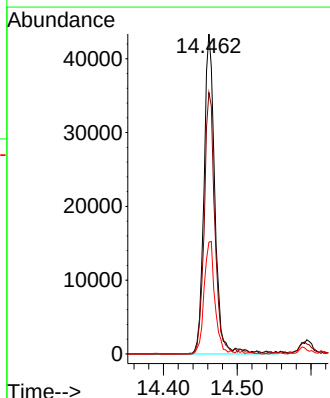
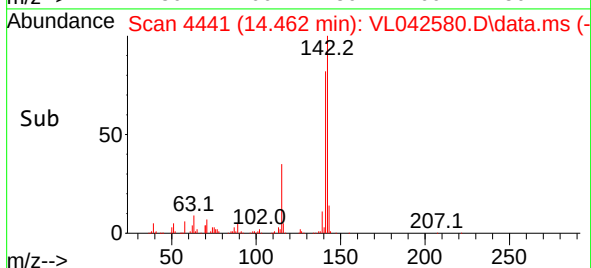
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

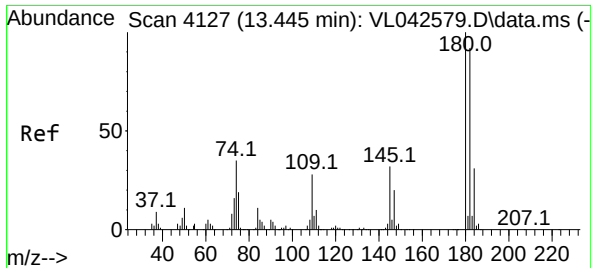


#80
Naphthalene,2-methyl-
Concen: 2.408 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43



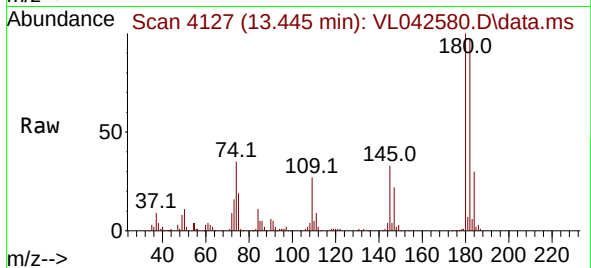
Tgt Ion:142 Resp: 44376
Ion Ratio Lower Upper
142 100
141 82.1 66.2 99.4
115 35.0 28.3 42.5





#81
 1,2,4-Trichlorobenzene
 Concen: 2.353 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

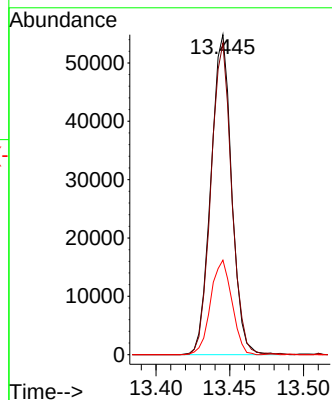
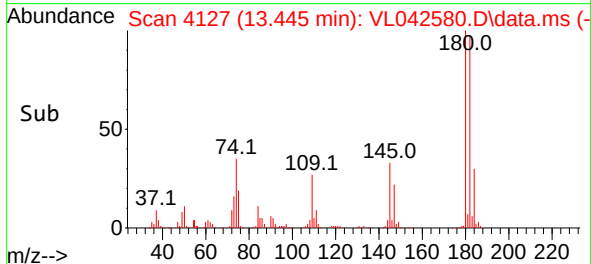
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:180 Resp: 5365
 Ion Ratio Lower Upper
 180 100
 182 97.3 75.0 112.4
 184 30.4 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042581.D
 Acq On : 29 May 2025 12:15
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:18:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	101864	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	307159	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	279402	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 209886 10.021 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	13779	1.101	ppbv	95
3) Chlorodifluoromethane	1.476	51	18960	1.100	ppbv	99
4) Chloromethane	1.531	50	5387	1.087	ppbv	89
5) Vinyl Chloride	1.580	62	4964	0.983	ppbv	99
6) Bromomethane	1.667	94	2560	1.041	ppbv	99
7) Chloroethane	1.703	64	2164	1.103	ppbv #	84
8) Dichlorotetrafluoroethane	1.554	85	11182	1.072	ppbv	98
9) Propene	1.483	41	7413	1.068	ppbv	97
10) Heptane	4.981	43	21213m	1.083	ppbv	
11) Trichlorofluoromethane	1.878	101	12319	1.058	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.136	101	9979	1.091	ppbv	98
13) Ethanol	1.722	45	968	1.249	ppbv #	61
14) Bromoethene	1.780	108	3524	1.024	ppbv #	97
15) Acetone	1.835	43	15114	1.232	ppbv	98
16) 1,3-Butadiene	1.609	39	6483	1.115	ppbv	92
17) tert-Butyl alcohol	2.043	59	13587	1.063	ppbv #	83
18) 1,1-Dichloroethene	2.036	96	4598	1.080	ppbv	85
19) Isopropyl Alcohol	1.887	45	7964	1.086	ppbv #	38
20) Methylene Chloride	2.062	84	4654	1.149	ppbv	98
21) Allyl Chloride	2.094	41	9378	1.083	ppbv #	83
22) trans-1,2-Dichloroethene	2.340	96	5269	1.109	ppbv	98
23) Vinyl Acetate	2.463	43	16945	1.022	ppbv #	96
24) 1,1-Dichloroethane	2.408	63	10651	1.093	ppbv #	98
25) Ethyl Acetate	2.839	43	36518	1.088	ppbv	99
26) Hexane	2.826	57	16686	1.094	ppbv	99
27) Carbon Disulfide	2.149	76	12910	1.102	ppbv #	22
28) Methyl tert-Butyl Ether	2.441	73	7064	1.141	ppbv	93
29) Chloroform	2.849	83	21594	1.088	ppbv	100
30) Cyclohexane	3.858	84	13889	1.098	ppbv	96
31) cis-1,2-Dichloroethene	2.722	61	14880	1.066	ppbv	89
32) 1,1,1-Trichloroethane	3.370	97	20811	1.045	ppbv	97
34) 2-Butanone	2.560	43	23148	1.057	ppbv	99
35) Carbon Tetrachloride	3.765	117	21013	1.036	ppbv	89
36) Benzene	3.658	78	32310	1.068	ppbv	99
37) 1,2-Dichloroethane	3.218	62	15623	1.039	ppbv	97
38) Trichloroethene	4.551	130	13969	1.078	ppbv	98
39) 1,2-Dichloropropane	4.321	63	11488	1.027	ppbv	87
40) 1,4-Dioxane	4.600	88	5479m	1.153	ppbv	
41) Tetrahydrofuran	3.062	42	13711	1.069	ppbv	99
42) Bromodichloromethane	4.490	83	22628	1.060	ppbv #	96
43) Methyl Methacrylate	4.884	69	11810	1.007	ppbv	97
44) 2,2,4-Trimethylpentane	4.645	57	56202m	1.087	ppbv	
45) t-1,3-Dichloropropene	6.415	75	13988m	1.041	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042581.D
 Acq On : 29 May 2025 12:15
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:18:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

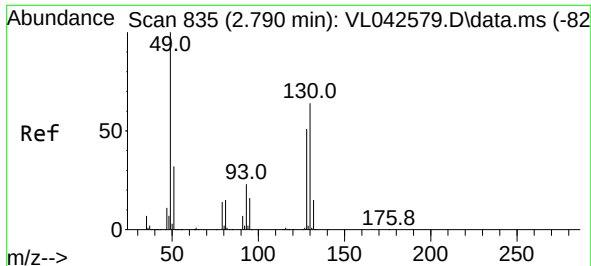
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	17453m	1.037	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	12328m	1.065	ppbv	
48) Dibromochloromethane	7.393	129	19719	1.064	ppbv	99
49) Bromoform	9.484	173	15937	0.996	ppbv	96
50) 4-Methyl-2-Pentanone	5.765	43	31646	1.037	ppbv	99
51) 2-Hexanone	7.445	43	25135	1.043	ppbv #	96
52) Tetrachloroethene	8.228	164	11770	1.041	ppbv	97
53) Toluene	6.936	91	36540	1.045	ppbv	97
54) 1,2-Dibromoethane	7.658	107	18114	1.055	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.927	131	14971	1.066	ppbv	95
57) Chlorobenzene	8.927	112	28714	1.058	ppbv	100
58) Ethyl Benzene	9.357	91	49899	1.053	ppbv	96
59) m/p-Xylene	9.535	91	78893m	2.115	ppbv	
60) o-Xylene	9.966	91	39398	1.059	ppbv	99
61) Styrene	9.875	104	18371	1.045	ppbv	100
62) Isopropylbenzene	10.542	105	59492	1.083	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	24057	1.017	ppbv	99
64) n-propylbenzene	10.992	120	15107	1.026	ppbv	90
65) tert-Butylbenzene	11.532	119	53720	1.077	ppbv	99
66) Benzyl Chloride	11.617	91	6617	1.029	ppbv	98
67) sec-Butylbenzene	11.769	105	76631	1.093	ppbv	100
69) p-Isopropyltoluene	11.927	119	62849	1.070	ppbv	100
70) n-Butylbenzene	12.283	91	63350	1.093	ppbv	99
71) 2-Chlorotoluene	10.901	91	45250	1.080	ppbv	99
72) 4-Ethyltoluene	11.128	105	50214	1.083	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	41412	1.079	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	46810	1.099	ppbv #	90
75) 1,3-Dichlorobenzene	11.610	146	28889	1.080	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	29060	1.089	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	28176	1.085	ppbv	97
78) Hexachloro-1,3-Butadiene	13.882	225	24950	1.162	ppbv	98
79) Naphthalene	13.517	128	45649	1.141	ppbv #	94
80) Naphthalene,2-methyl-	14.458	142	15700	0.866	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	24843	1.108	ppbv	97

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



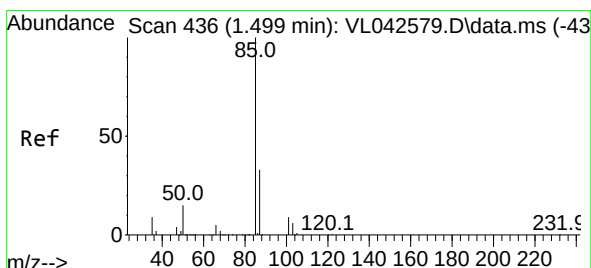
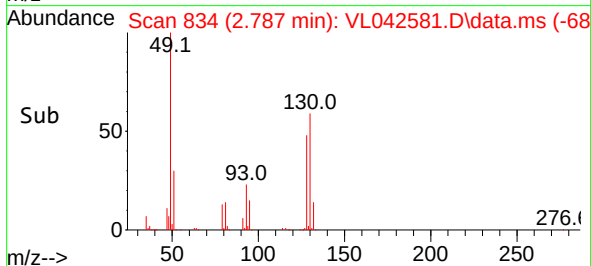
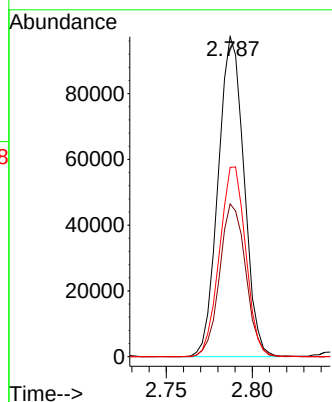
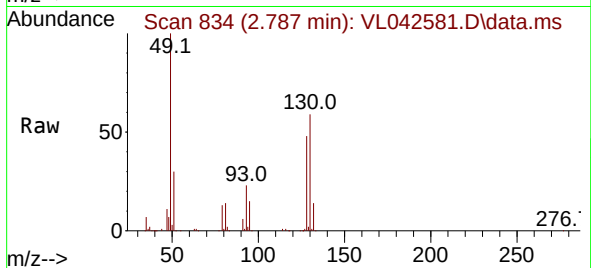
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 49 Resp: 101864
Ion Ratio Lower Upper
49 100
128 48.1 24.2 72.6
130 60.1 30.4 91.2

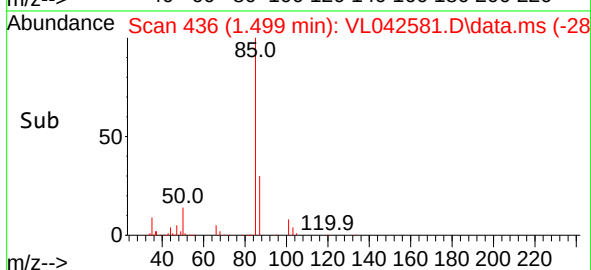
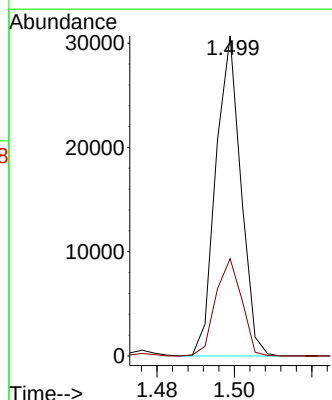
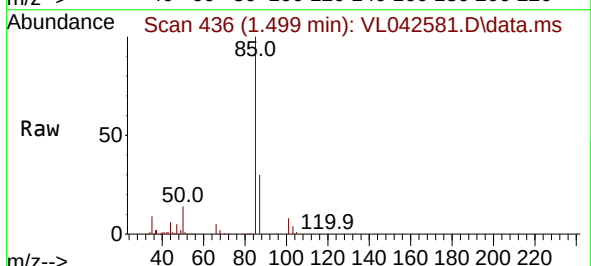
Manual Integrations
APPROVED

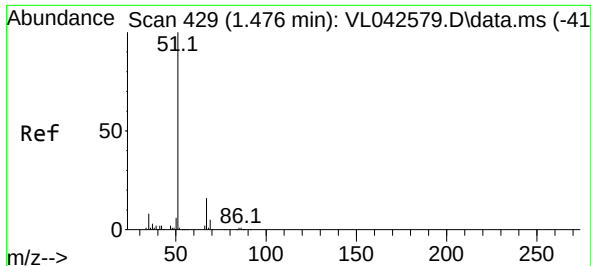
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#2
Dichlorodifluoromethane
Concen: 1.101 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

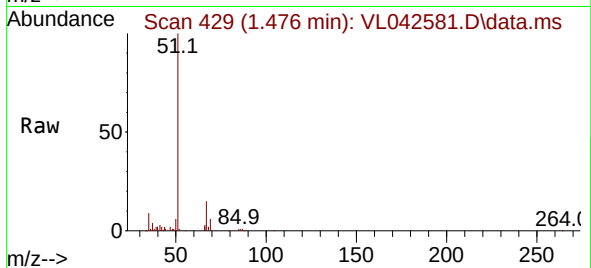
Tgt Ion: 85 Resp: 13779
Ion Ratio Lower Upper
85 100
87 30.4 26.6 39.8





#3
Chlorodifluoromethane
Concen: 1.100 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

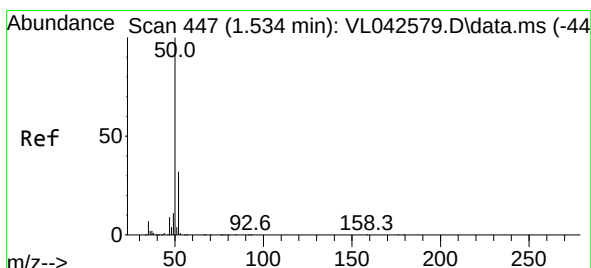
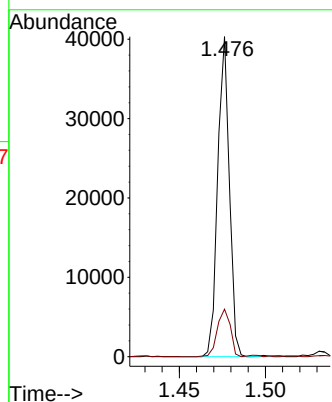
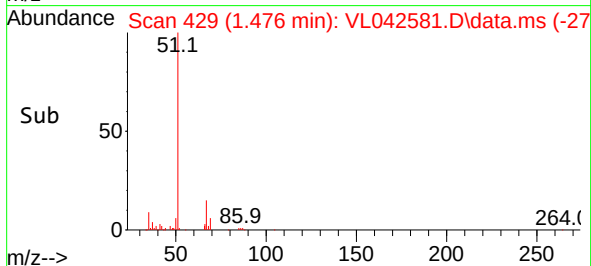
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



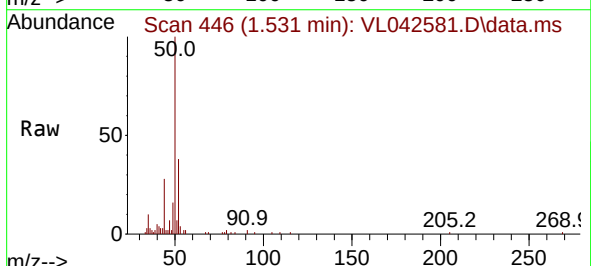
Tgt Ion: 51 Resp: 18960
Ion Ratio Lower Upper
51 100
67 17.0 13.4 20.2

Manual Integrations
APPROVED

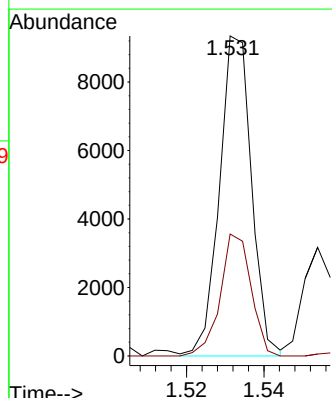
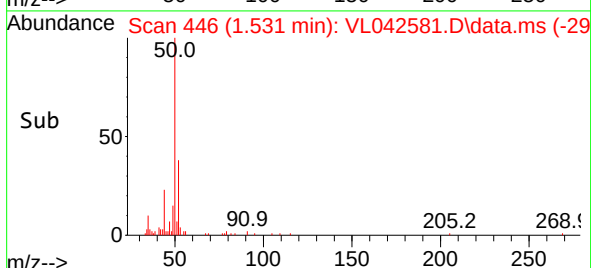
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

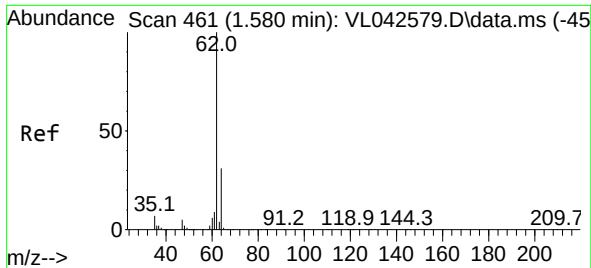


#4
Chloromethane
Concen: 1.087 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15



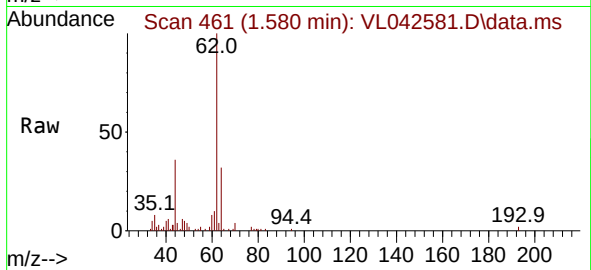
Tgt Ion: 50 Resp: 5387
Ion Ratio Lower Upper
50 100
52 38.4 25.8 38.6





#5
 Vinyl Chloride
 Concen: 0.983 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

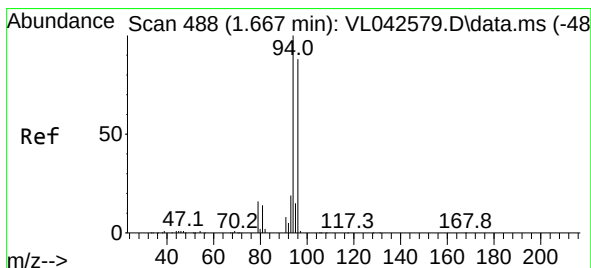
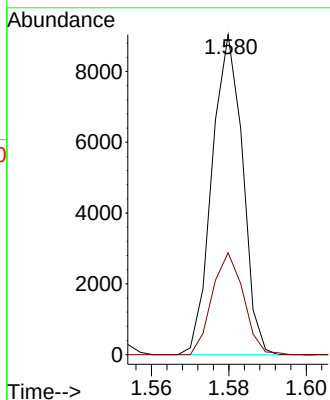
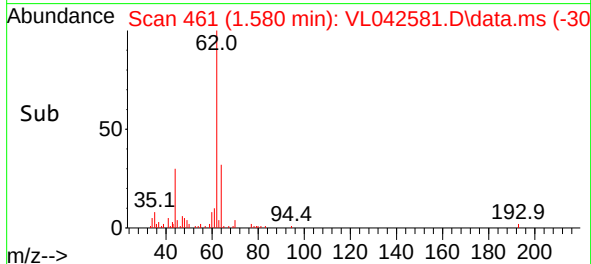
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



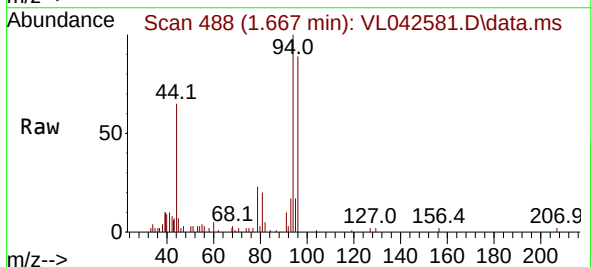
Tgt Ion: 62 Resp: 4964
 Ion Ratio Lower Upper
 62 100
 64 31.8 24.9 37.3

Manual Integrations
 APPROVED

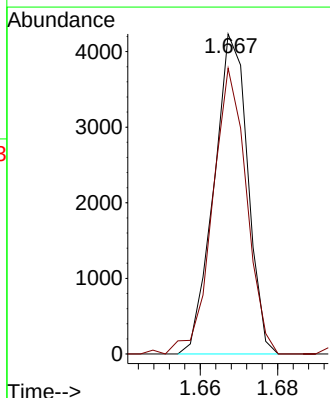
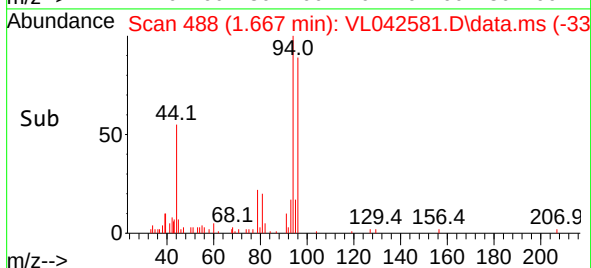
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

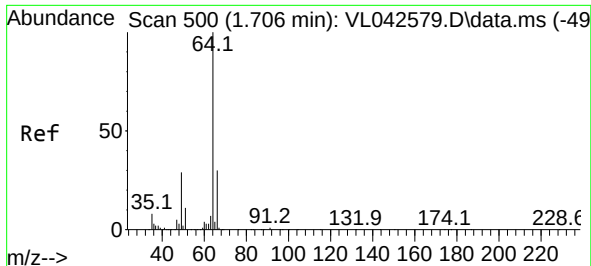


#6
 Bromomethane
 Concen: 1.041 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15



Tgt Ion: 94 Resp: 2560
 Ion Ratio Lower Upper
 94 100
 96 89.3 70.7 106.1





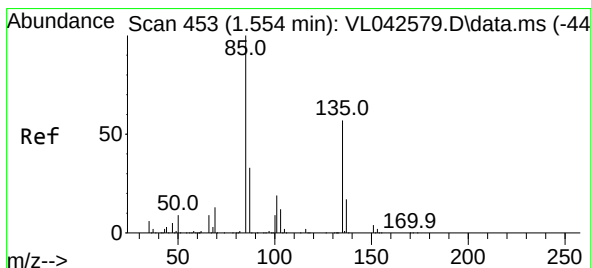
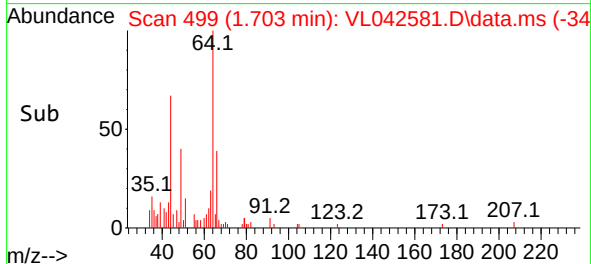
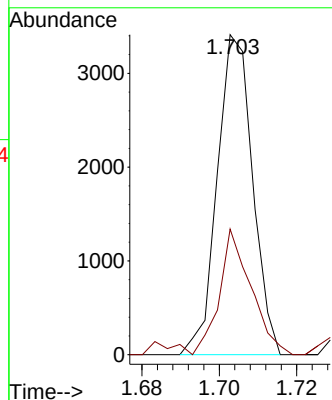
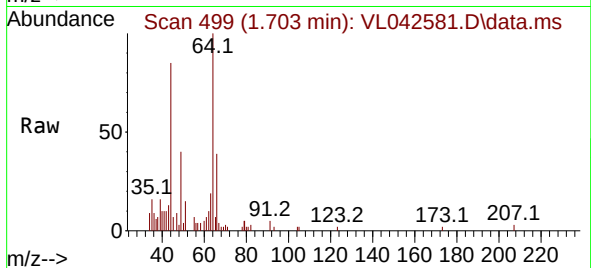
#7
Chloroethane
Concen: 1.103 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 64 Resp: 2164
Ion Ratio Lower Upper
64 100
66 39.3 24.3 36.5

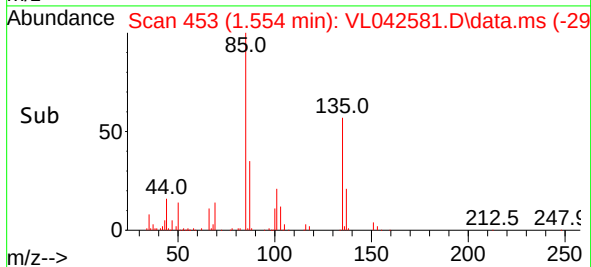
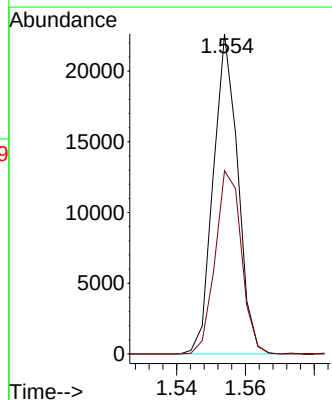
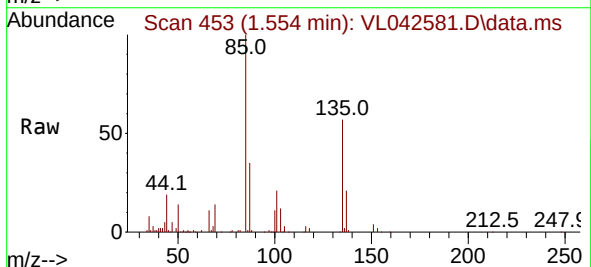
Manual Integrations
APPROVED

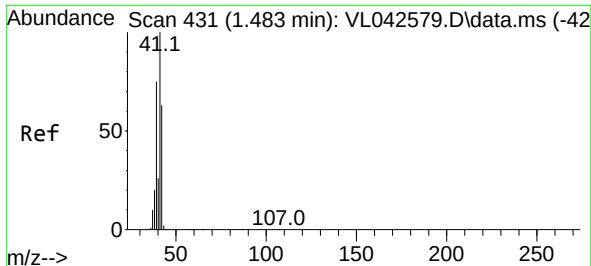
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#8
Dichlorotetrafluoroethane
Concen: 1.072 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

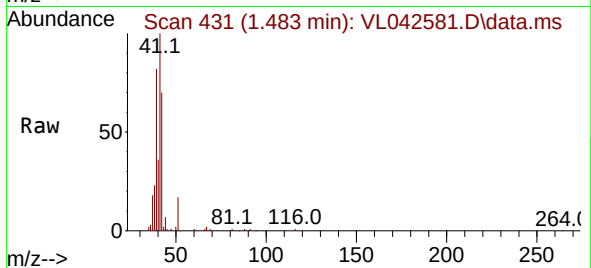
Tgt Ion: 85 Resp: 11182
Ion Ratio Lower Upper
85 100
135 61.5 50.2 75.4





#9
Propene
Concen: 1.068 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

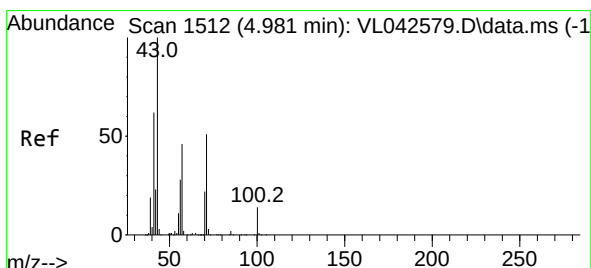
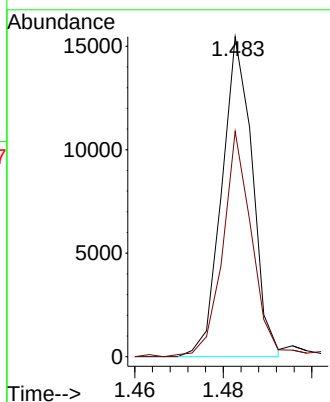
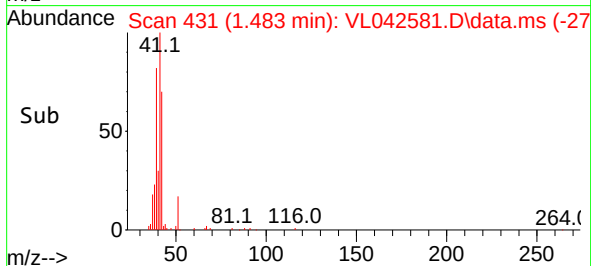
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



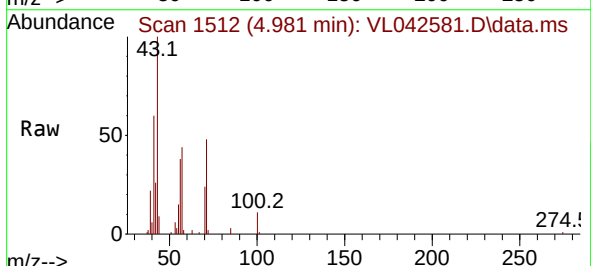
Tgt Ion: 41 Resp: 741
Ion Ratio Lower Upper
41 100
42 69.1 53.3 79.9

Manual Integrations
APPROVED

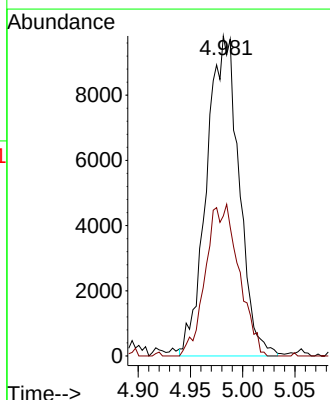
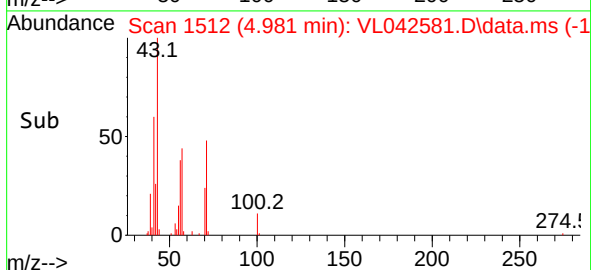
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

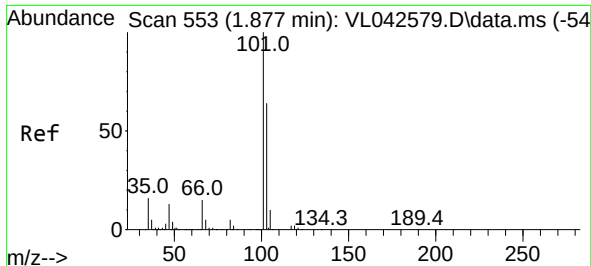


#10
Heptane
Concen: 1.083 ppbv m
RT: 4.981 min Scan# 1512
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15



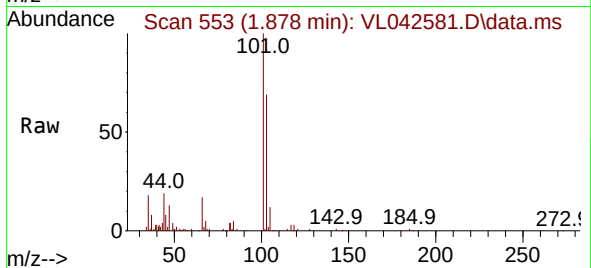
Tgt Ion: 43 Resp: 21213
Ion Ratio Lower Upper
43 100
57 0.0 38.9 58.3#





#11
 Trichlorofluoromethane
 Concen: 1.058 ppbv
 RT: 1.878 min Scan# 553
 Delta R.T. 0.000 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

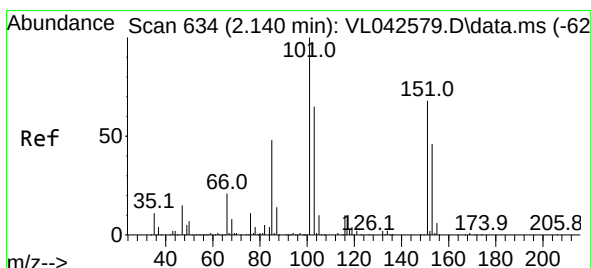
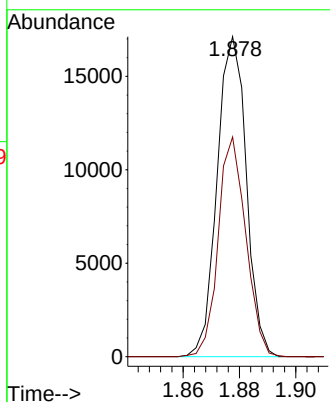
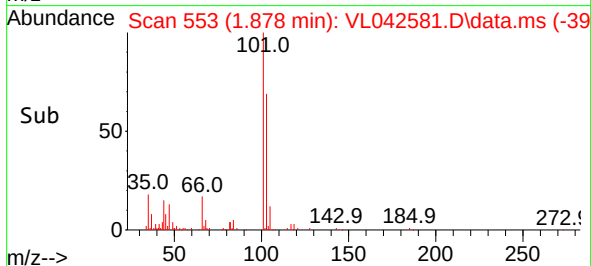
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



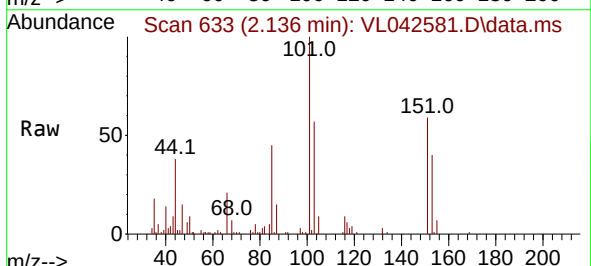
Tgt Ion:101 Resp: 12319
 Ion Ratio Lower Upper
 101 100
 103 68.6 51.5 77.3

Manual Integrations
 APPROVED

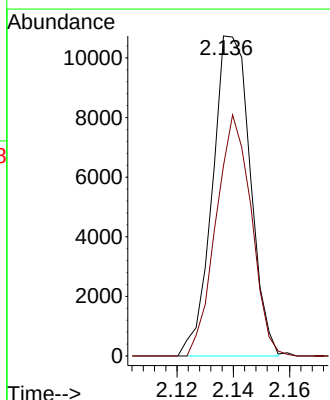
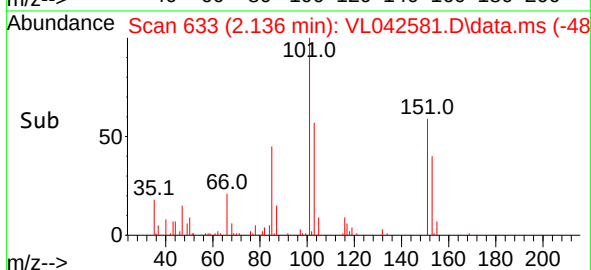
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

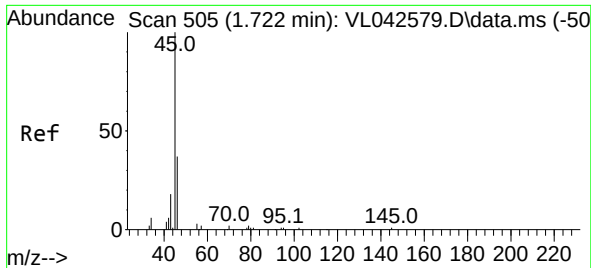


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.091 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15



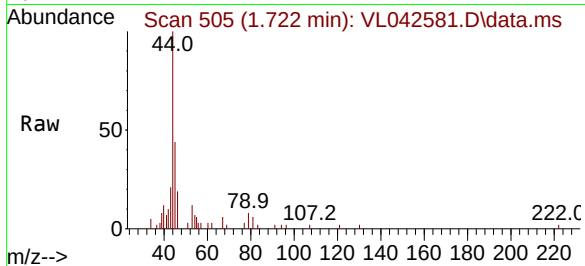
Tgt Ion:101 Resp: 9979
 Ion Ratio Lower Upper
 101 100
 151 70.6 55.3 82.9





#13
Ethanol
Concen: 1.249 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

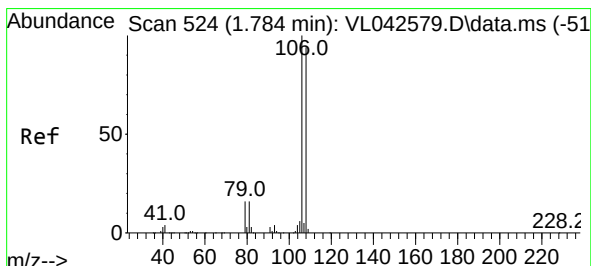
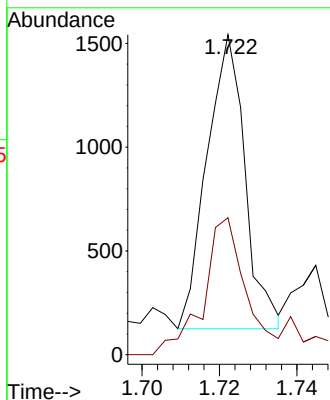
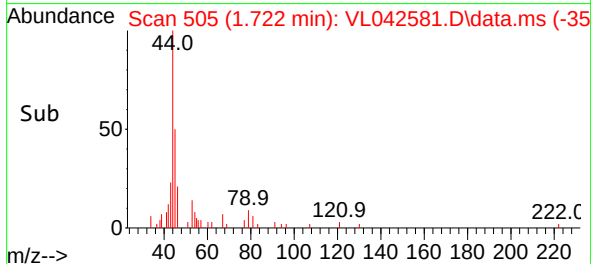
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



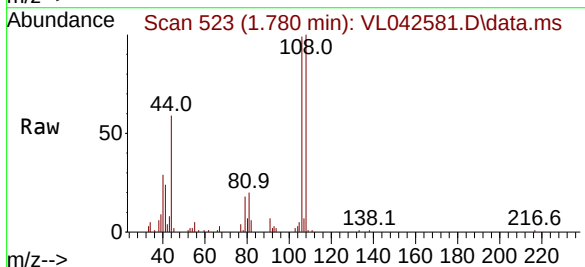
Tgt Ion: 45 Resp: 968
Ion Ratio Lower Upper
45 100
46 59.5 14.5 58.1

Manual Integrations
APPROVED

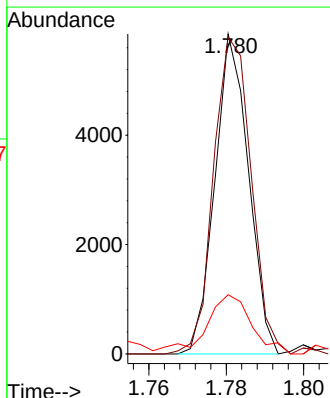
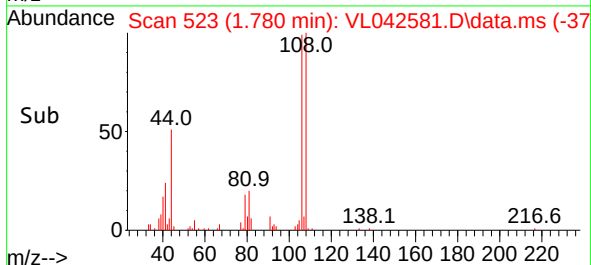
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

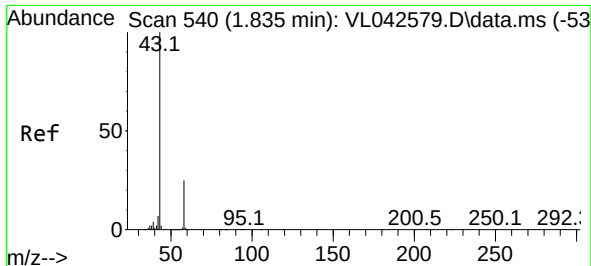


#14
Bromoethene
Concen: 1.024 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15



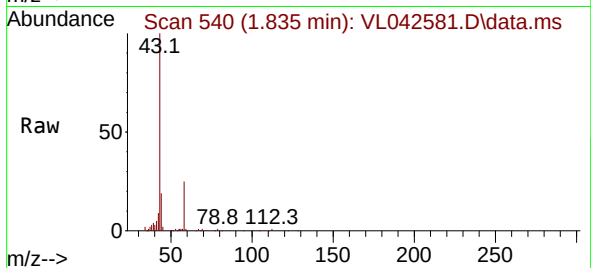
Tgt Ion:108 Resp: 3524
Ion Ratio Lower Upper
108 100
106 111.5 87.9 131.9
79 25.3 15.6 23.4





#15
Acetone
Concen: 1.232 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

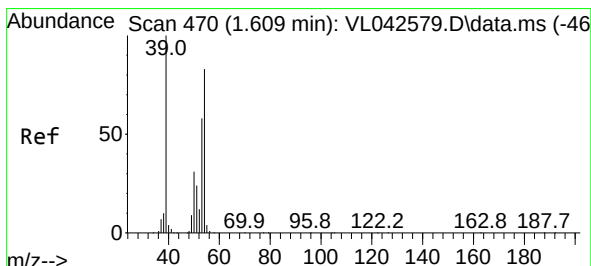
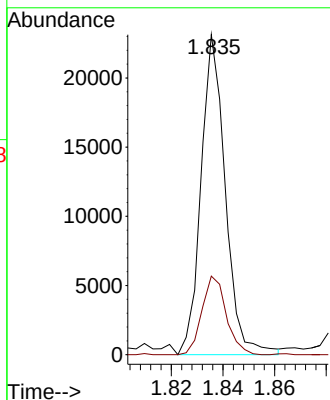
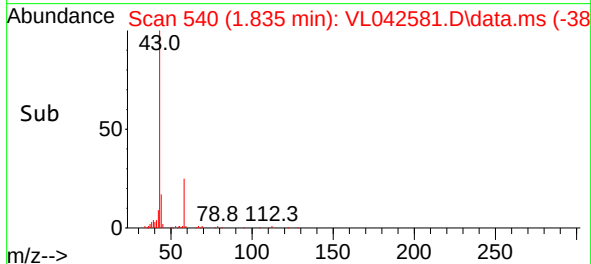
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



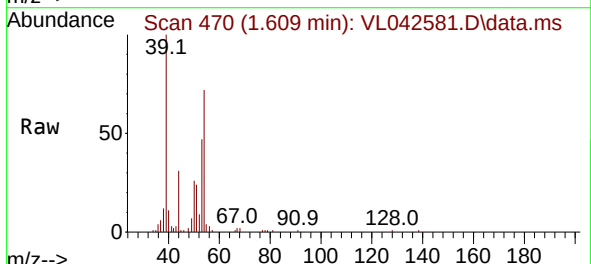
Tgt Ion: 43 Resp: 15114
Ion Ratio Lower Upper
43 100
58 24.9 21.0 31.4

Manual Integrations
APPROVED

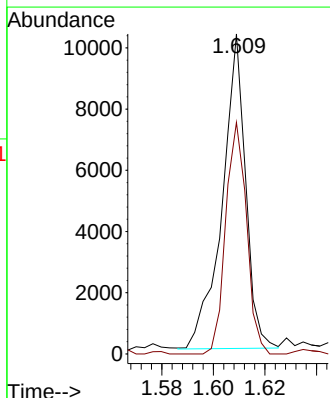
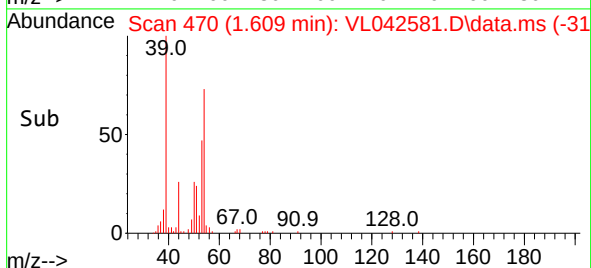
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

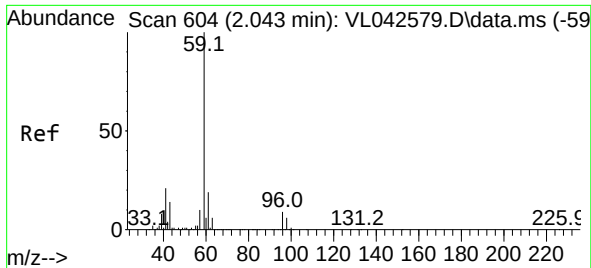


#16
1,3-Butadiene
Concen: 1.115 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15



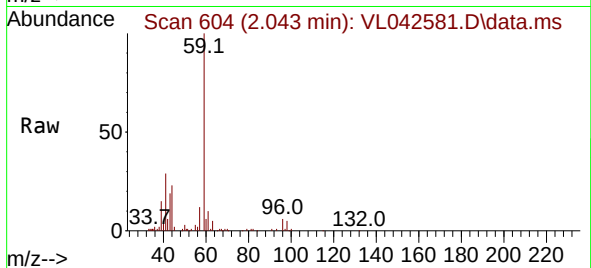
Tgt Ion: 39 Resp: 6483
Ion Ratio Lower Upper
39 100
54 65.4 57.9 86.9





#17
tert-Butyl alcohol
Concen: 1.063 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

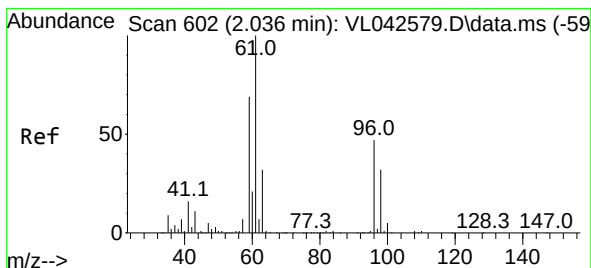
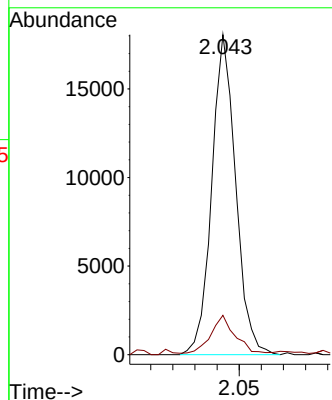
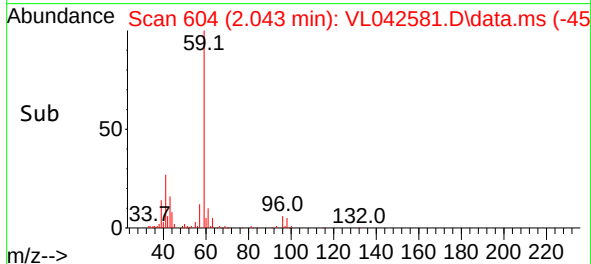
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 59 Resp: 1358
Ion Ratio Lower Upper
59 100
57 17.1 8.6 12.8

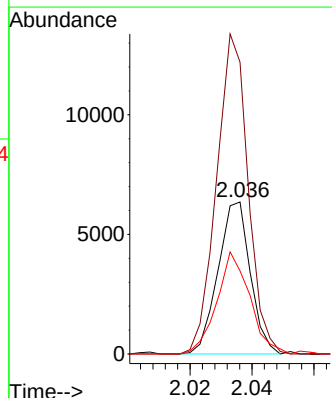
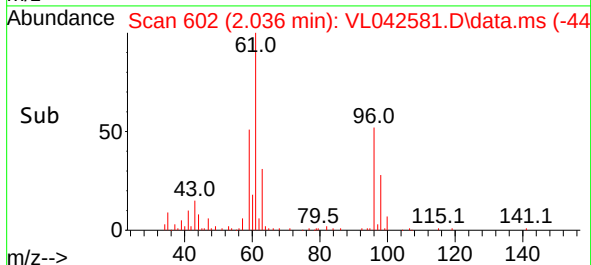
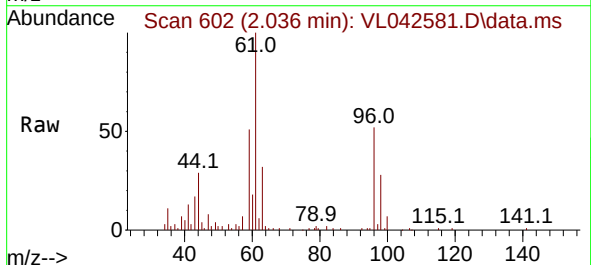
Manual Integrations
APPROVED

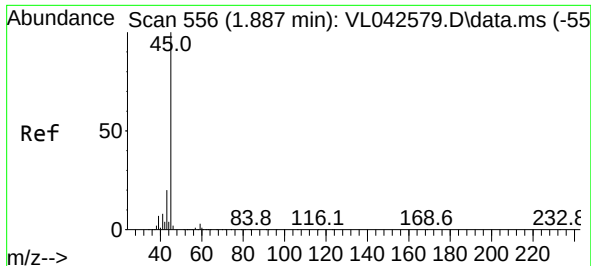
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#18
1,1-Dichloroethene
Concen: 1.080 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

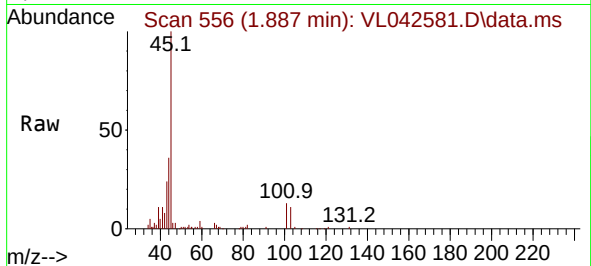
Tgt Ion: 96 Resp: 4598
Ion Ratio Lower Upper
96 100
61 191.9 171.1 256.7
98 54.6 54.4 81.6





#19
Isopropyl Alcohol
Concen: 1.086 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

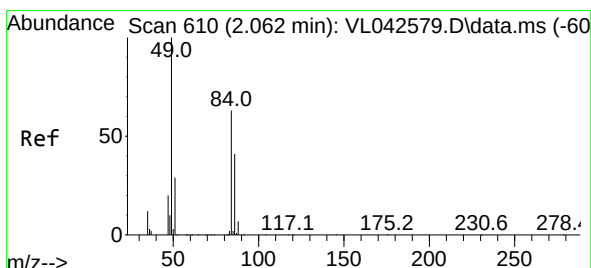
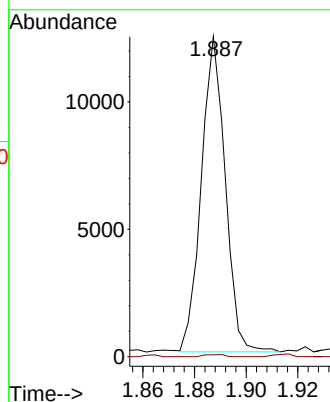
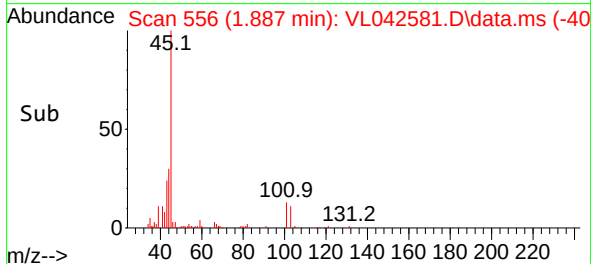
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



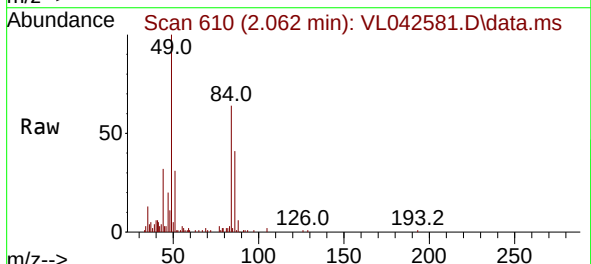
Tgt Ion: 45 Resp: 7964
Ion Ratio Lower Upper
45 100
58 0.0 29.4 44.2

Manual Integrations
APPROVED

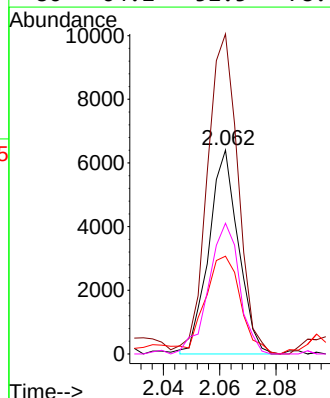
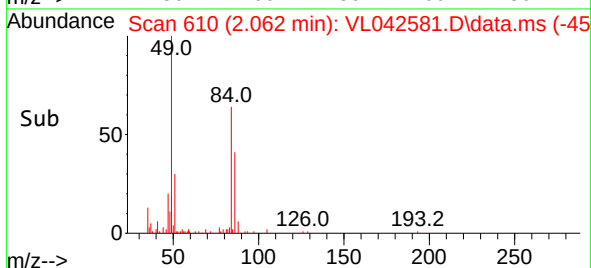
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

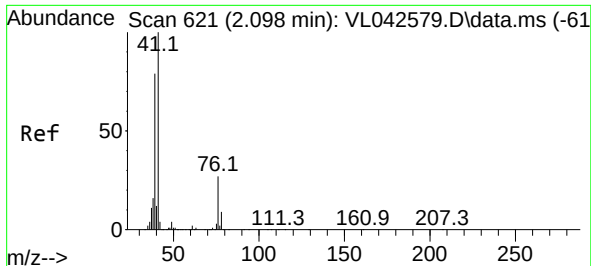


#20
Methylene Chloride
Concen: 1.149 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15



Tgt Ion: 84 Resp: 4654
Ion Ratio Lower Upper
84 100
49 157.0 128.8 193.2
51 48.0 38.6 57.8
86 64.2 52.5 78.7





#21

Allyl Chloride

Concen: 1.083 ppbv

RT: 2.094 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

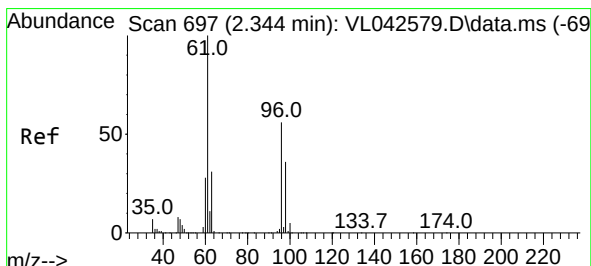
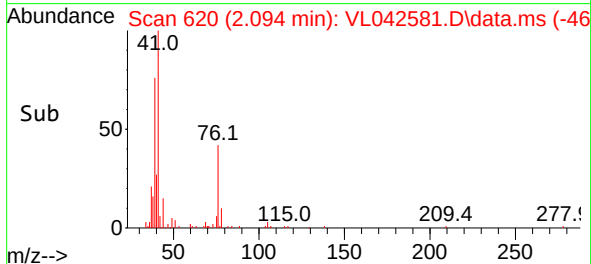
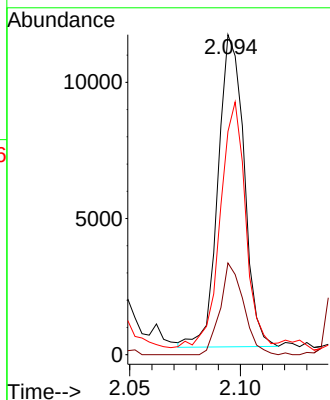
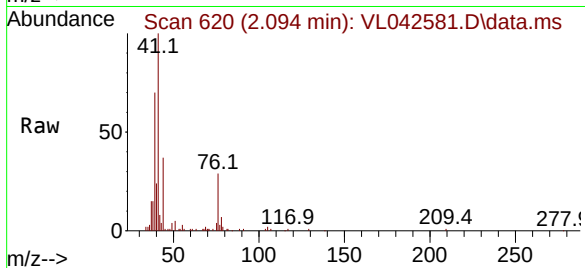
VSTDICC001

Tgt Ion: 41	Resp: 9378
Ion Ratio	Lower Upper
41	100
76	26.6 21.2 31.8
39	95.2 60.9 91.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#22

trans-1,2-Dichloroethene

Concen: 1.109 ppbv

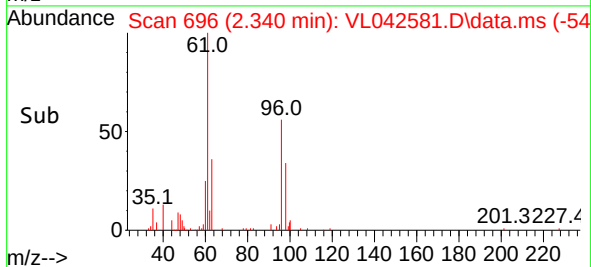
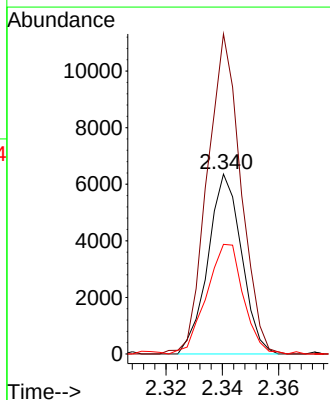
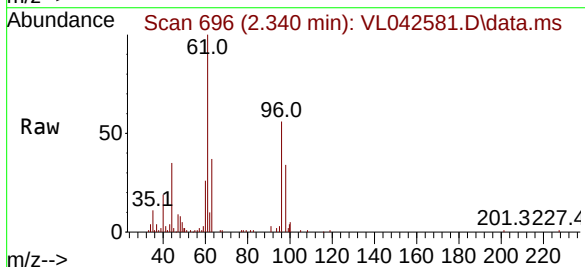
RT: 2.340 min Scan# 696

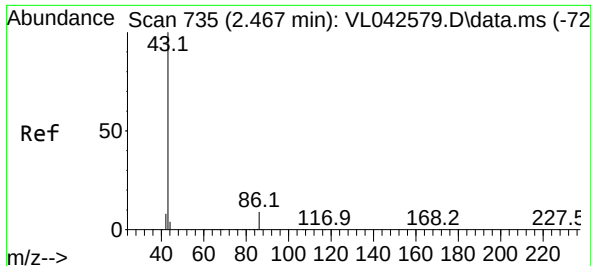
Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

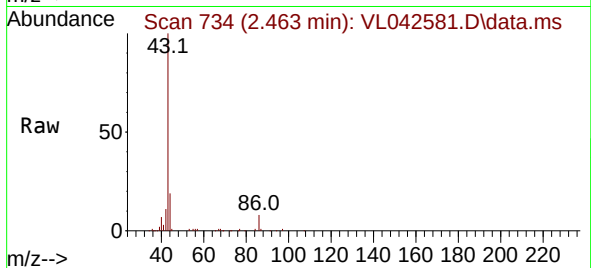
Tgt Ion: 96	Resp: 5269
Ion Ratio	Lower Upper
96	100
61	176.7 142.6 214.0
98	59.7 51.0 76.4





#23
 Vinyl Acetate
 Concen: 1.022 ppbv
 RT: 2.463 min Scan# 717
 Delta R.T. -0.003 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

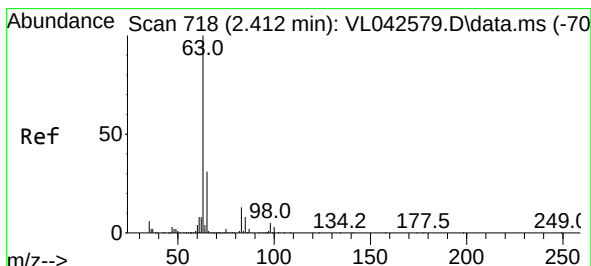
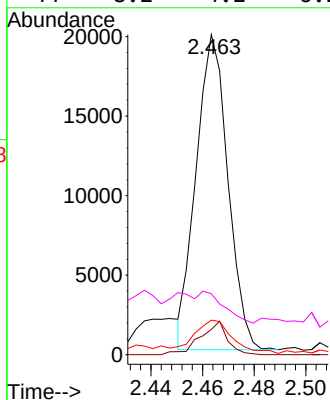
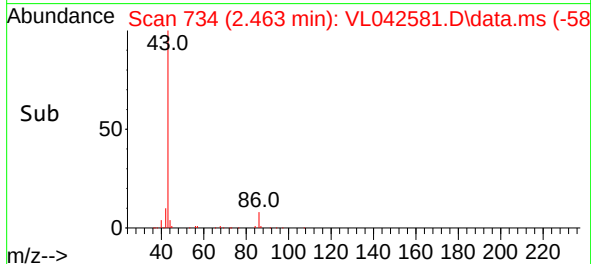
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 43 Resp: 16945
 Ion Ratio Lower Upper
 43 100
 86 8.0 6.6 9.8
 42 10.6 7.0 10.4
 44 8.2 4.2 6.2#

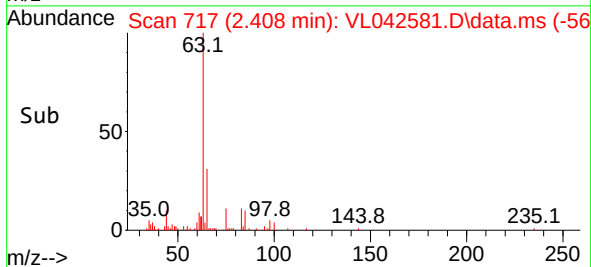
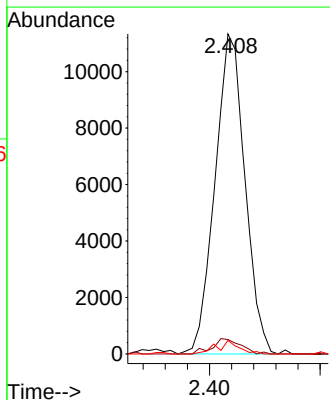
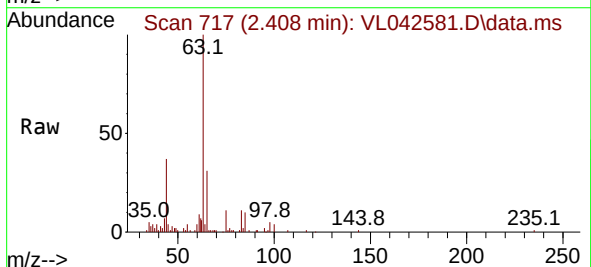
Manual Integrations
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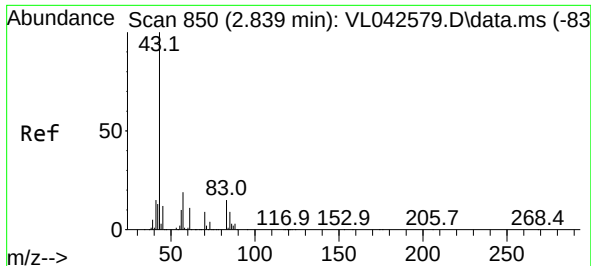
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#24
 1,1-Dichloroethane
 Concen: 1.093 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. -0.003 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

Tgt Ion: 63 Resp: 10651
 Ion Ratio Lower Upper
 63 100
 98 4.5 2.4 7.1
 100 4.2 1.4 4.0#





#25

Ethyl Acetate

Concen: 1.088 ppbv

RT: 2.839 min Scan# 850

Delta R.T. 0.000 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

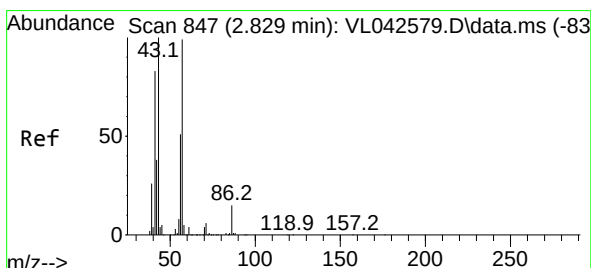
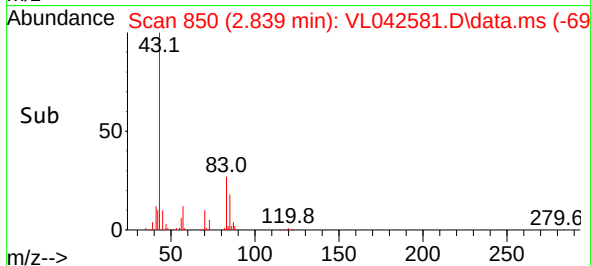
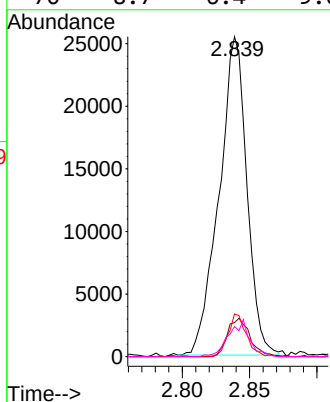
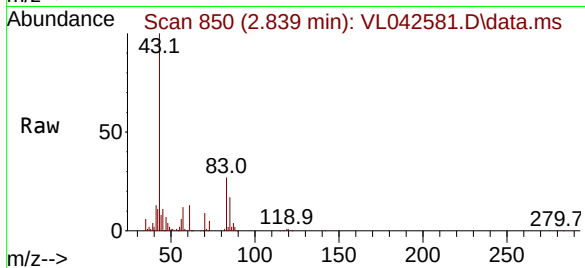
VSTDICC001

Tgt Ion: 43	Resp: 36518
Ion Ratio	Lower Upper
43 100	
45 10.0	8.2 12.2
61 8.8	7.1 10.7
70 8.7	6.4 9.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#26

Hexane

Concen: 1.094 ppbv

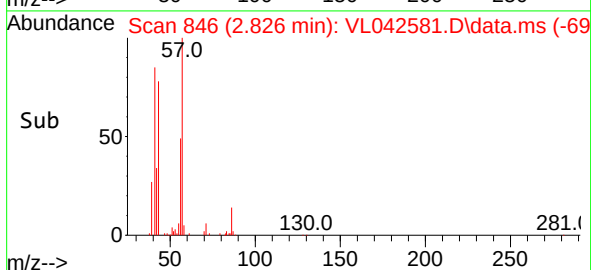
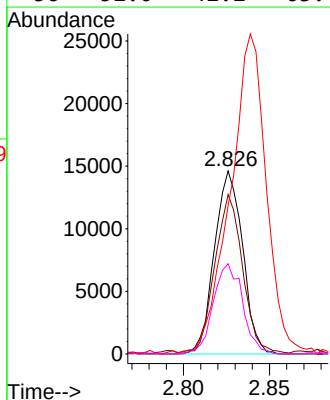
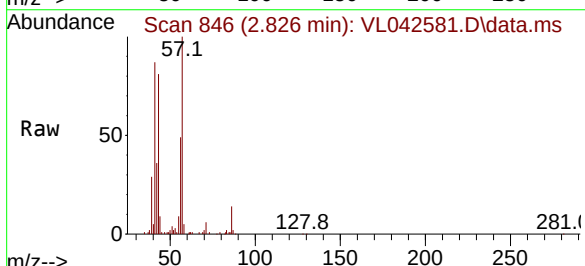
RT: 2.826 min Scan# 846

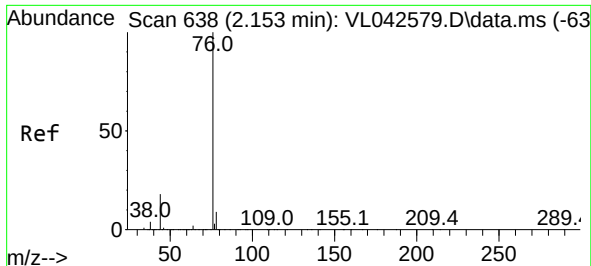
Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

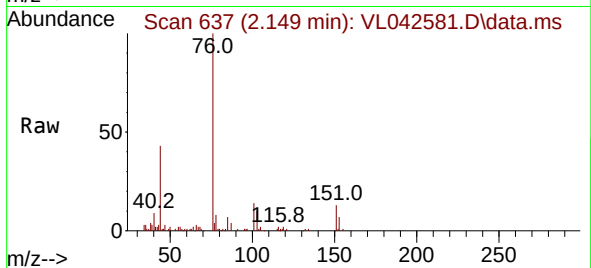
Tgt Ion: 57	Resp: 16686
Ion Ratio	Lower Upper
57 100	
41 86.1	70.6 106.0
43 227.5	181.1 271.7
56 52.0	42.2 63.4





#27
Carbon Disulfide
Concen: 1.102 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

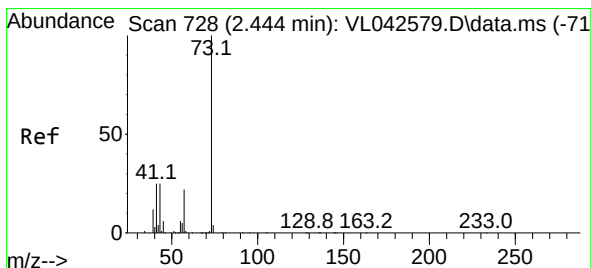
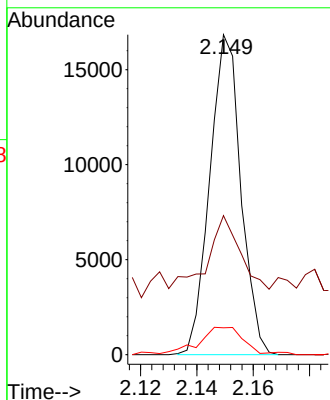
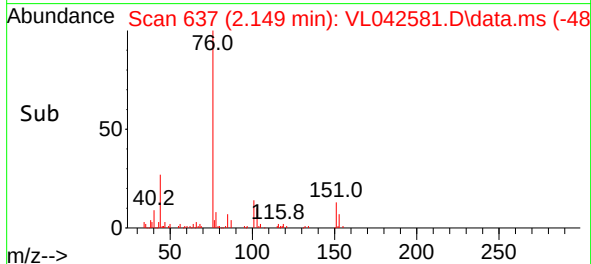
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 76 Resp: 12910
Ion Ratio Lower Upper
76 100
44 83.5 21.3 31.9
78 12.9 9.4 14.0

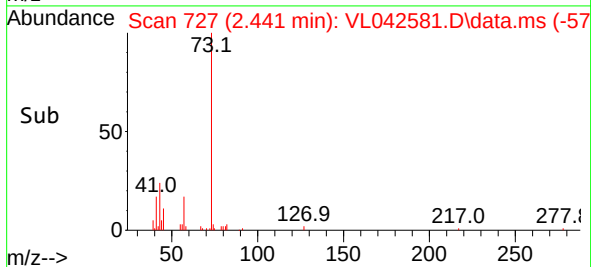
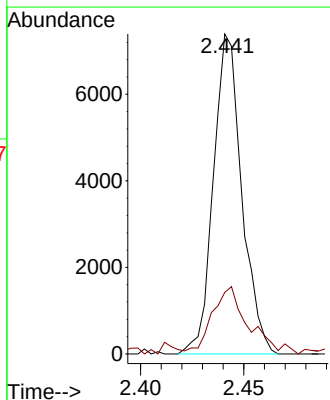
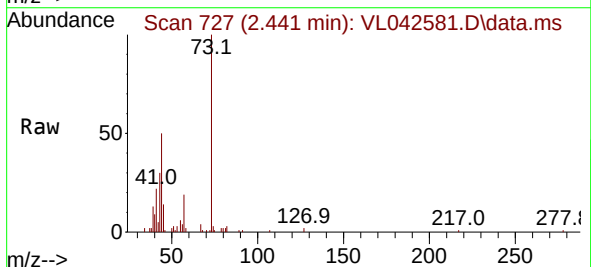
Manual Integrations
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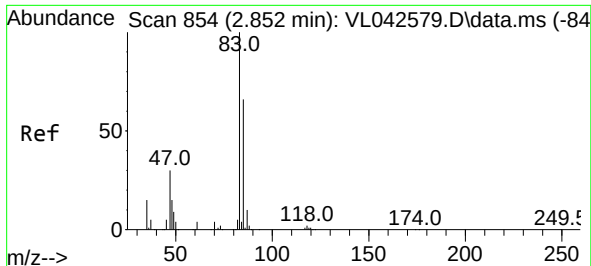
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#28
Methyl tert-Butyl Ether
Concen: 1.141 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion: 73 Resp: 7064
Ion Ratio Lower Upper
73 100
57 28.6 19.9 29.9





#29

Chloroform

Concen: 1.088 ppbv

RT: 2.849 min Scan# 853

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 83 Resp: 21594

Ion Ratio Lower Upper

83 100

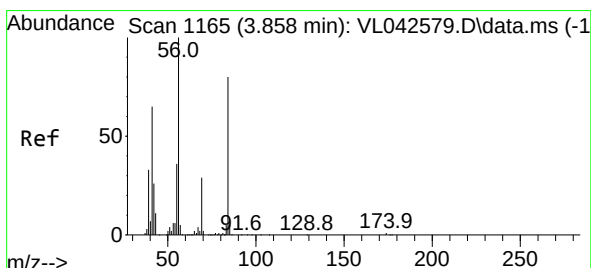
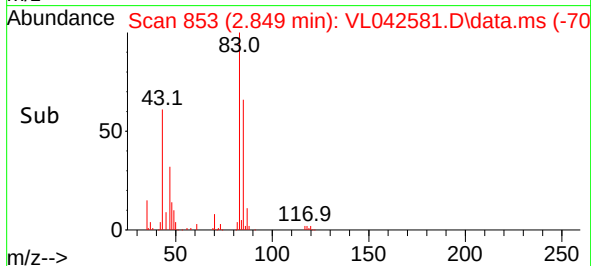
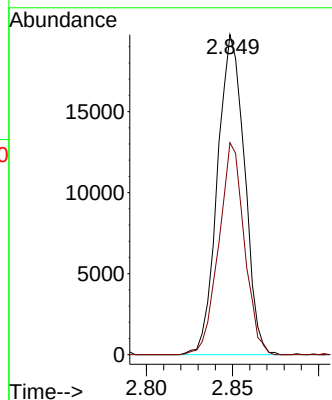
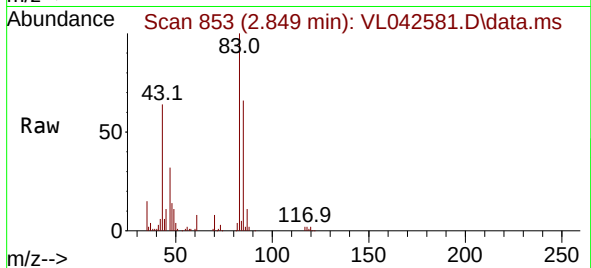
85 66.2 52.8 79.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#30

Cyclohexane

Concen: 1.098 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.000 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

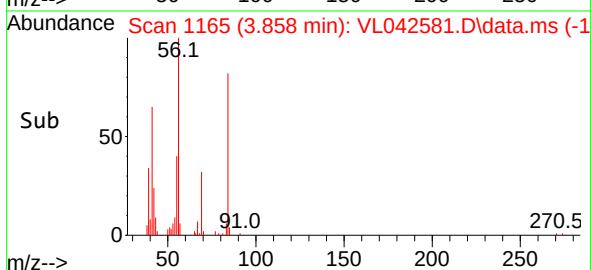
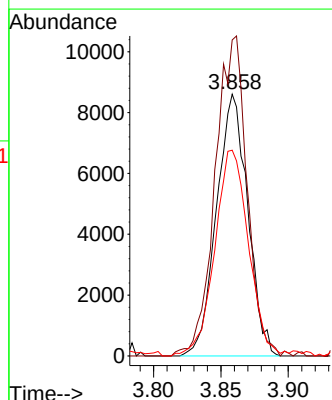
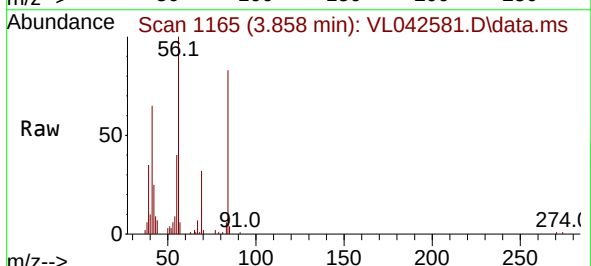
Tgt Ion: 84 Resp: 13889

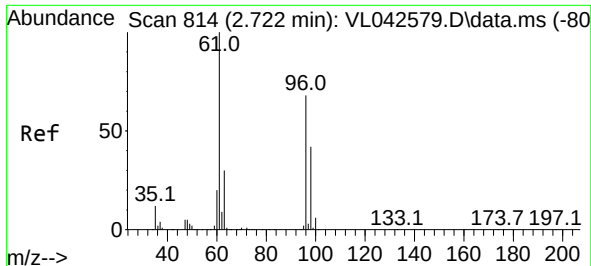
Ion Ratio Lower Upper

84 100

56 124.8 103.7 155.5

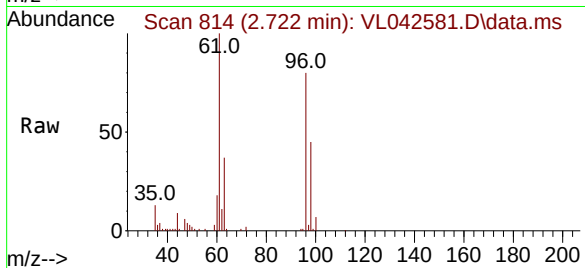
41 85.8 65.1 97.7





#31
 cis-1,2-Dichloroethene
 Concen: 1.066 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

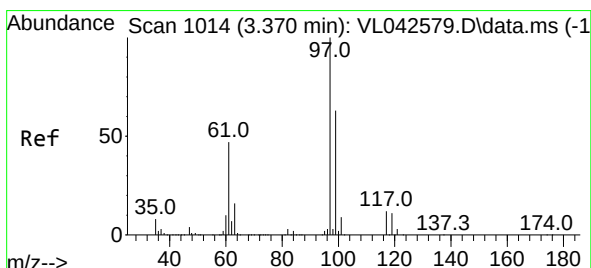
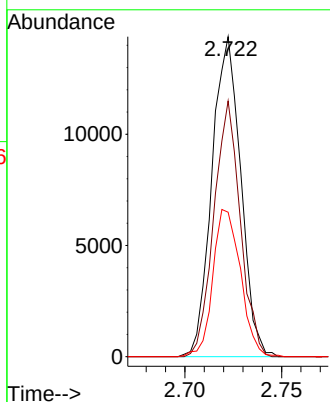
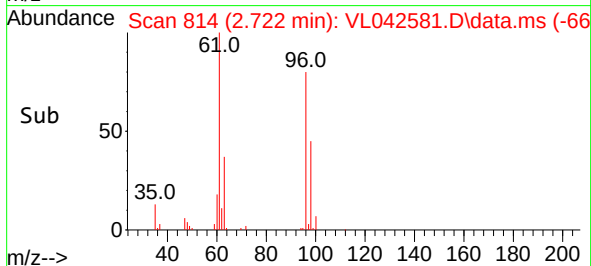
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



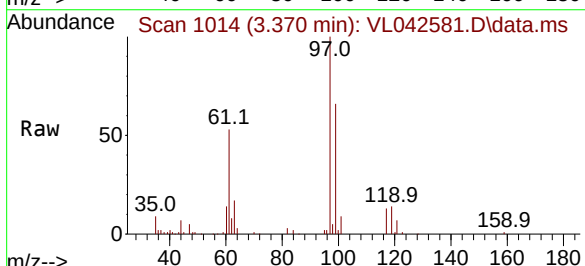
Tgt Ion: 61 Resp: 14880
 Ion Ratio Lower Upper
 61 100
 96 79.9 54.5 81.7
 98 45.2 33.4 50.2

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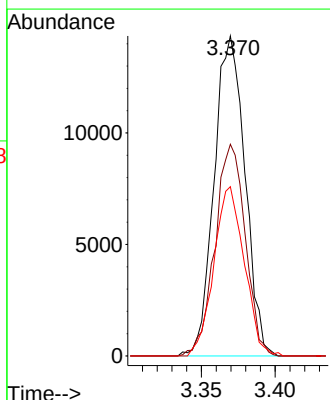
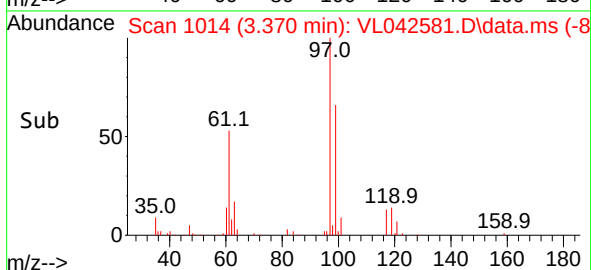
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

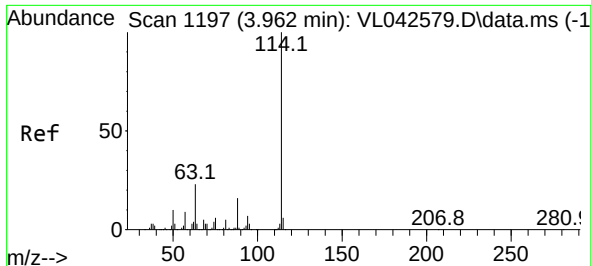


#32
 1,1,1-Trichloroethane
 Concen: 1.045 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.000 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15



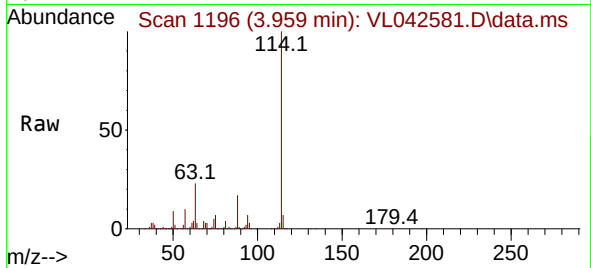
Tgt Ion: 97 Resp: 20811
 Ion Ratio Lower Upper
 97 100
 99 65.2 51.0 76.6
 61 52.3 39.4 59.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

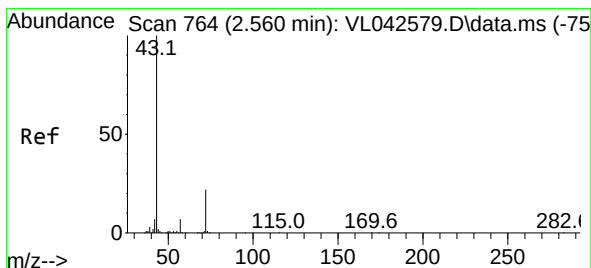
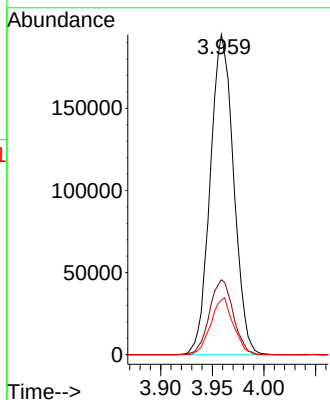
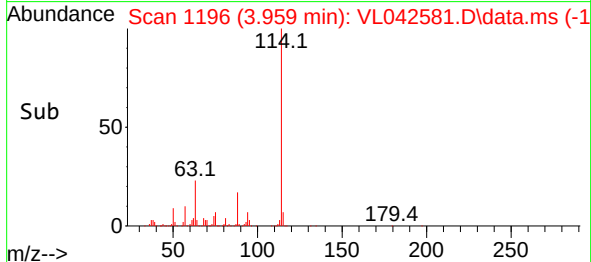
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



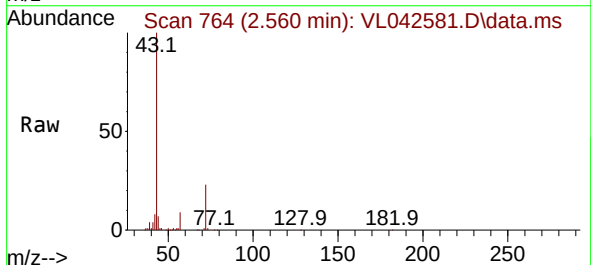
Tgt Ion:114 Resp: 307159
Ion Ratio Lower Upper
114 100
63 23.8 19.0 28.6
88 17.1 13.6 20.4

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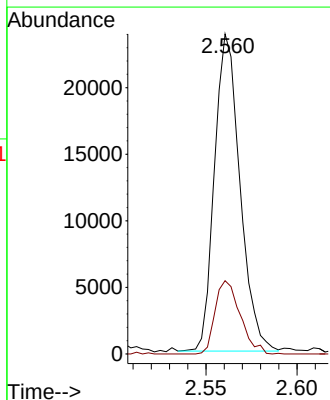
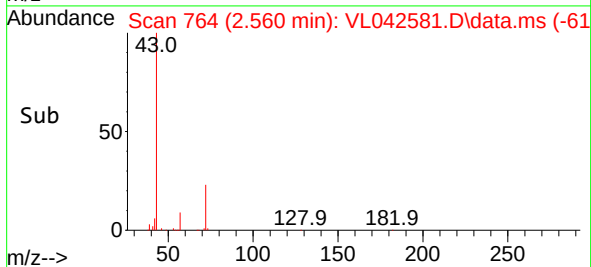
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

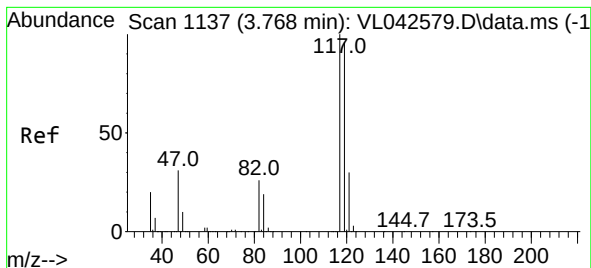


#34
2-Butanone
Concen: 1.057 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15



Tgt Ion: 43 Resp: 23148
Ion Ratio Lower Upper
43 100
72 22.7 17.7 26.5





#35

Carbon Tetrachloride

Concen: 1.036 ppbv

RT: 3.765 min Scan# 1136

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

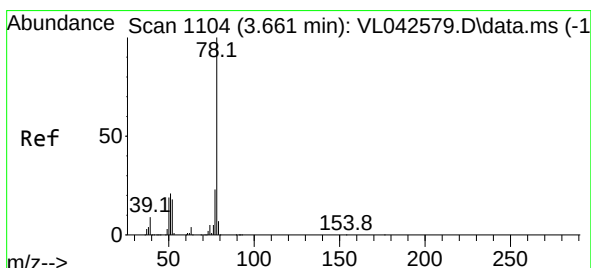
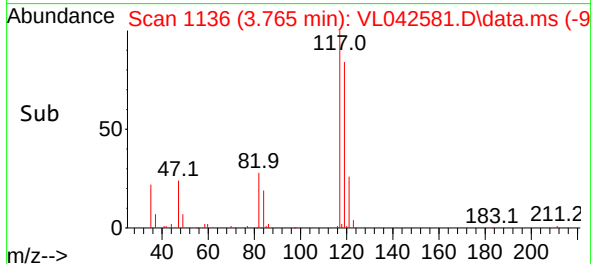
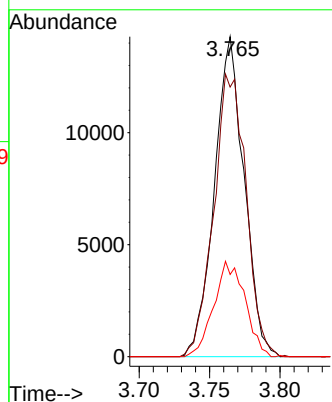
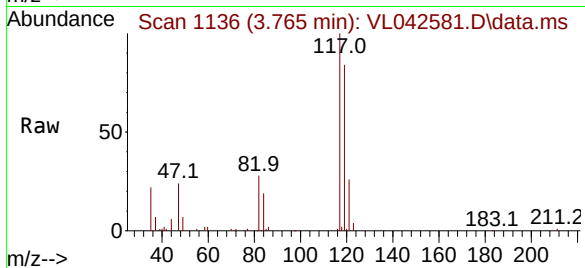
VSTDICC001

Tgt Ion:	117	Resp:	2101
Ion	Ratio	Lower	Upper
117	100		
119	84.3	76.8	115.2
121	25.7	24.3	36.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#36

Benzene

Concen: 1.068 ppbv

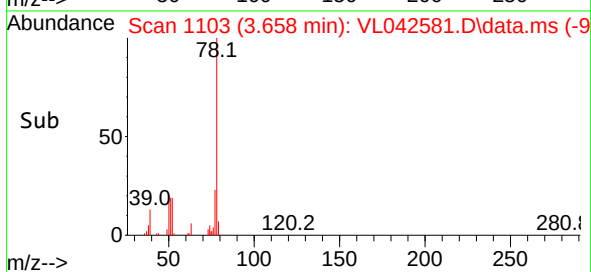
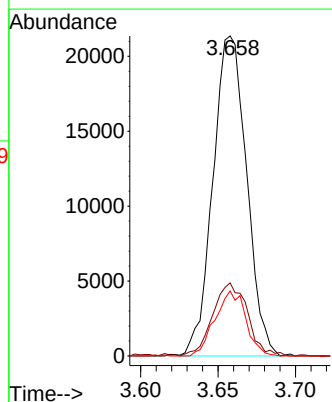
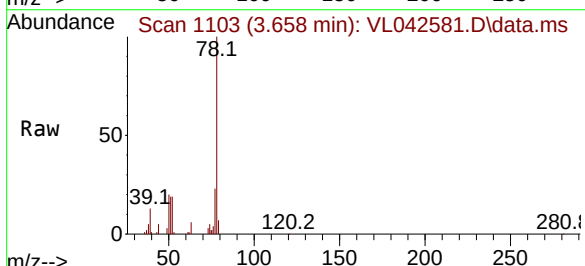
RT: 3.658 min Scan# 1103

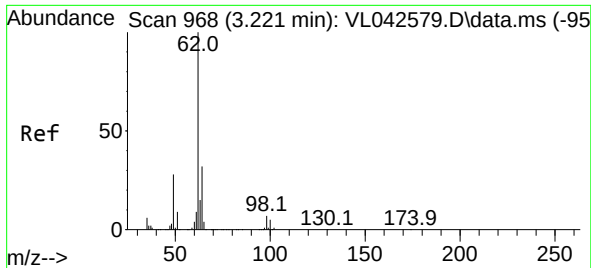
Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Tgt Ion:	78	Resp:	32310
Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.2	27.2
50	20.3	15.2	22.8





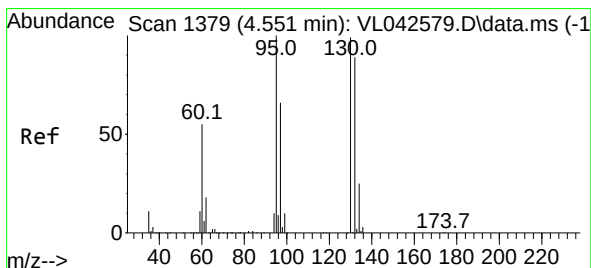
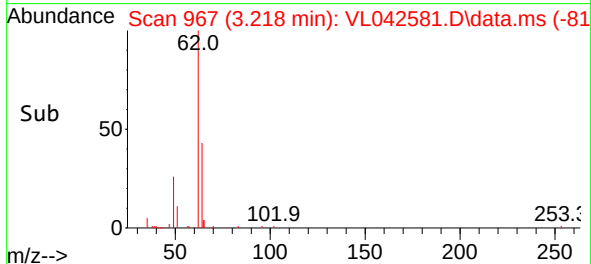
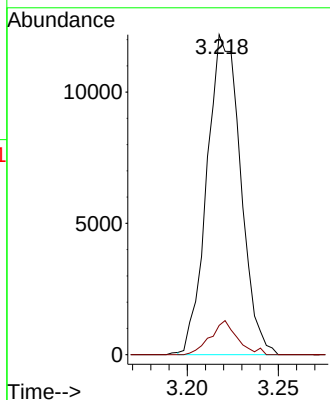
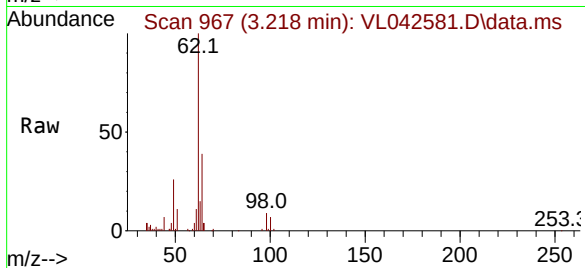
#37
1,2-Dichloroethane
Concen: 1.039 ppbv
RT: 3.218 min Scan# 90
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 62 Resp: 1562
Ion Ratio Lower Upper
62 100
98 8.6 6.1 9.1

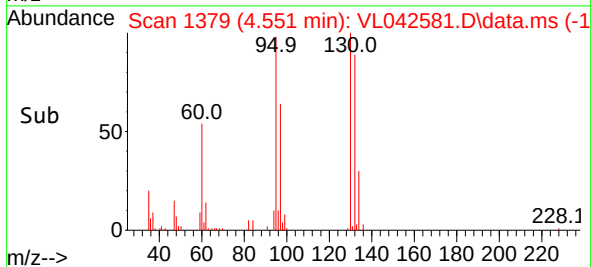
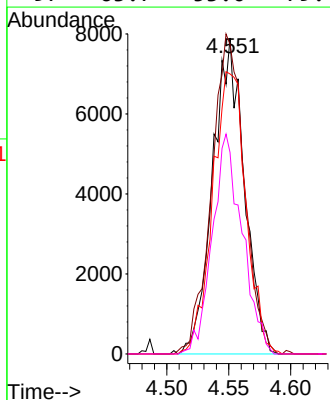
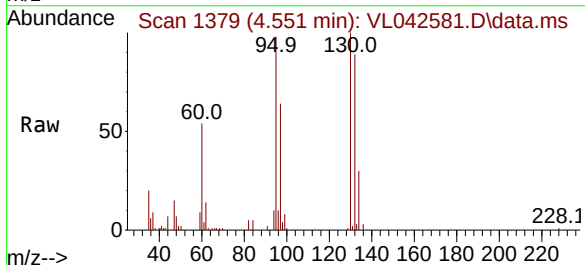
Manual Integrations
APPROVED

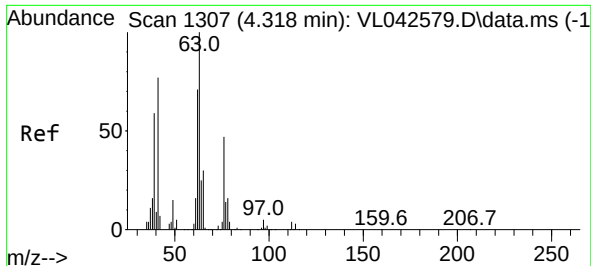
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#38
Trichloroethene
Concen: 1.078 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion:130 Resp: 13969
Ion Ratio Lower Upper
130 100
95 97.9 80.6 121.0
132 88.6 71.8 107.6
97 63.7 53.0 79.4





#39

1,2-Dichloropropane

Concen: 1.027 ppbv

RT: 4.321 min Scan# 1148

Delta R.T. 0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

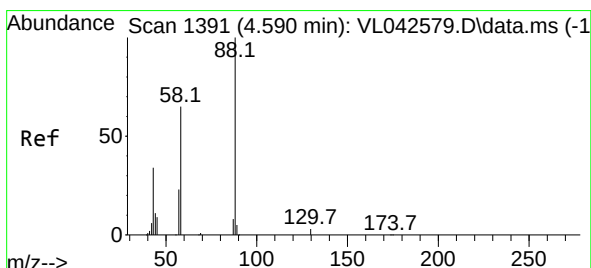
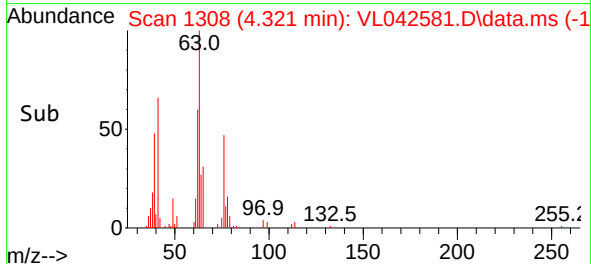
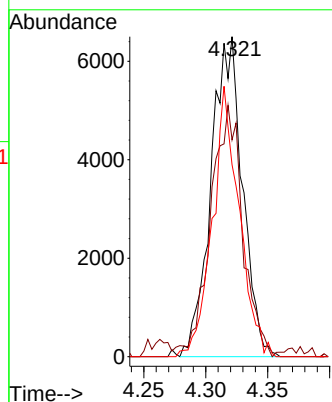
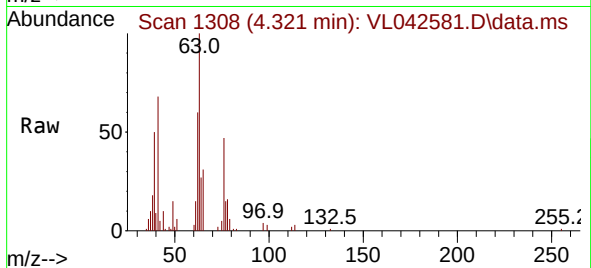
VSTDICC001

Tgt Ion: 63	Resp: 1148
Ion Ratio	Lower Upper
63 100	
41 66.4	61.8 92.6
62 60.0	56.6 85.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#40

1,4-Dioxane

Concen: 1.153 ppbv m

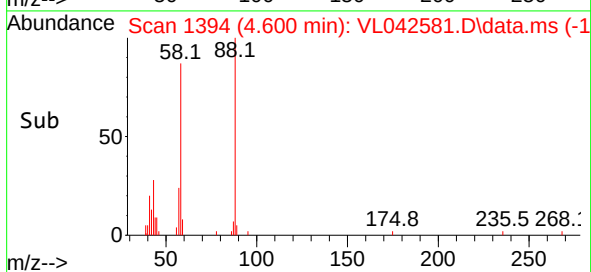
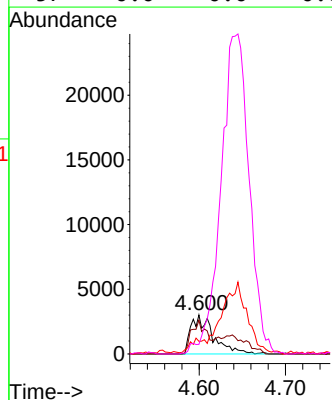
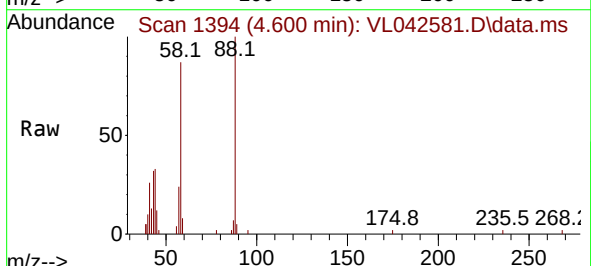
RT: 4.600 min Scan# 1394

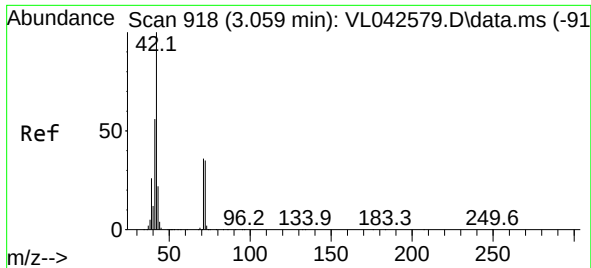
Delta R.T. 0.010 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

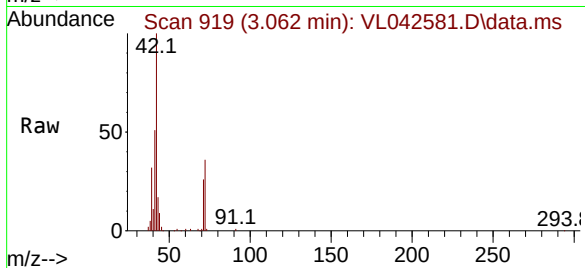
Tgt Ion: 88	Resp: 5479
Ion Ratio	Lower Upper
88 100	
58 0.0	55.8 83.8#
43 0.0	24.8 37.2#
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 1.069 ppbv
RT: 3.062 min Scan# 918
Delta R.T. 0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

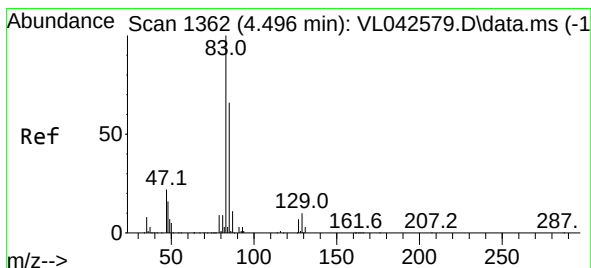
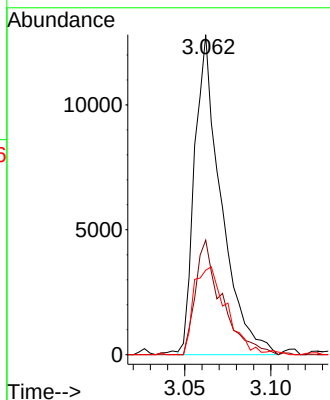
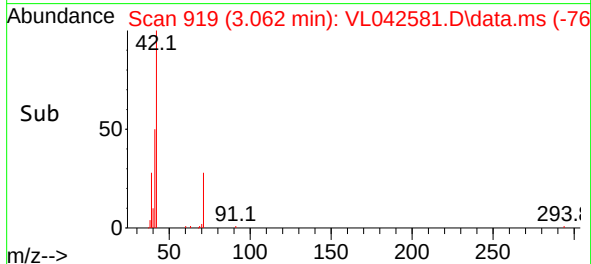
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 42 Resp: 1371
Ion Ratio Lower Upper
42 100
72 36.1 28.9 43.3
71 34.6 28.5 42.7

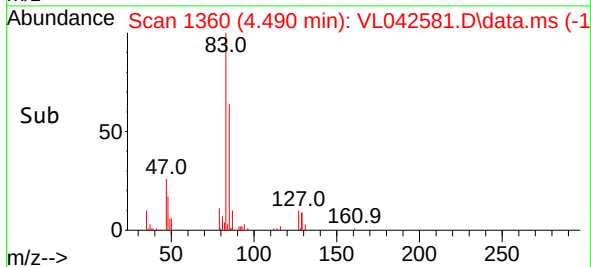
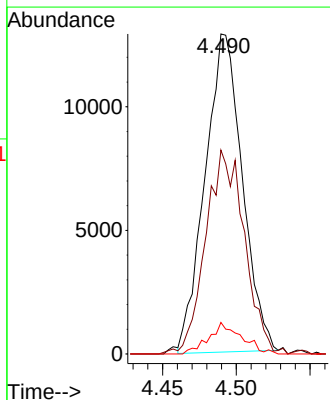
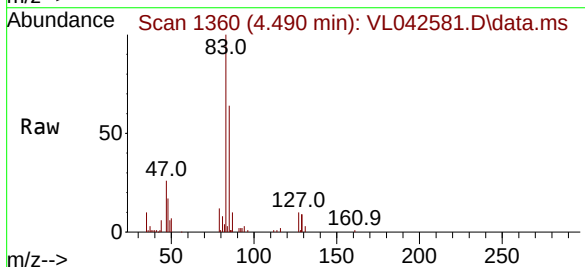
Manual Integrations
APPROVED

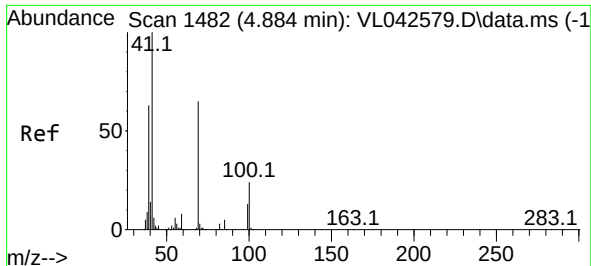
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#42
Bromodichloromethane
Concen: 1.060 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. -0.006 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion: 83 Resp: 22628
Ion Ratio Lower Upper
83 100
85 63.4 52.7 79.1
127 10.0 5.8 8.6





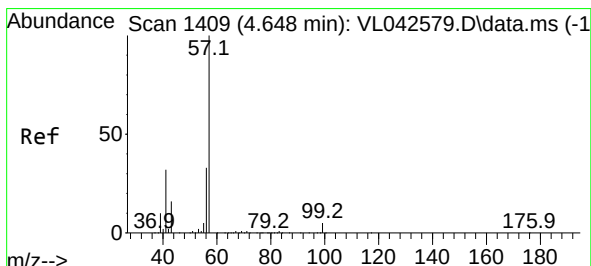
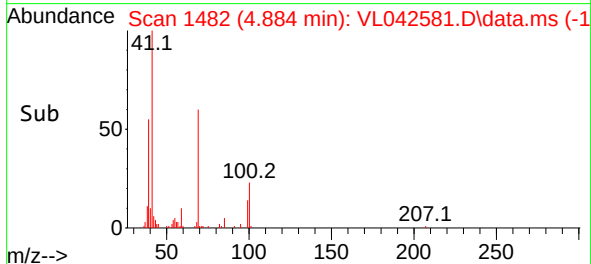
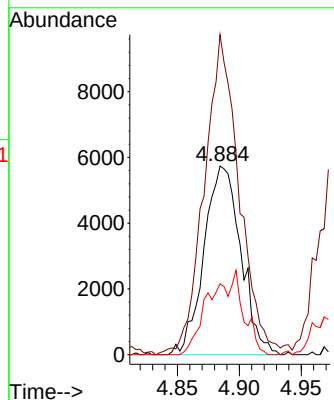
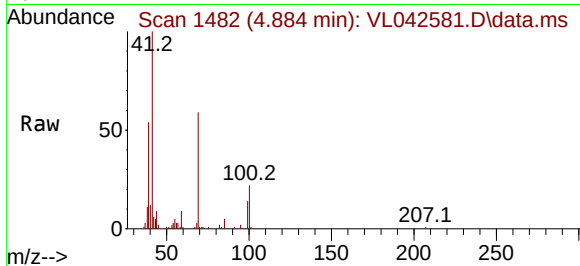
#43
Methyl Methacrylate
Concen: 1.007 ppbv
RT: 4.884 min Scan# 1482
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 69 Resp: 11810
Ion Ratio Lower Upper
69 100
41 158.9 124.6 187.0
100 41.9 29.9 44.9

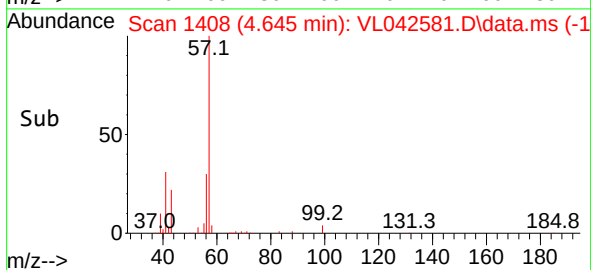
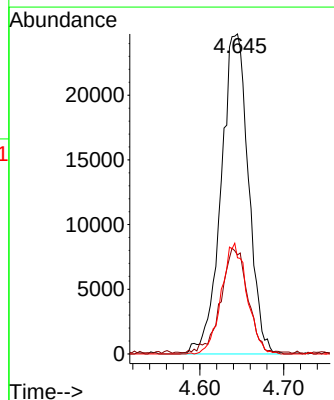
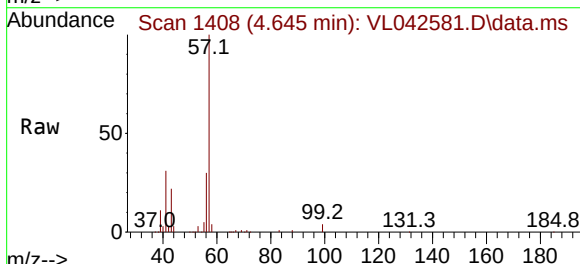
Manual Integrations
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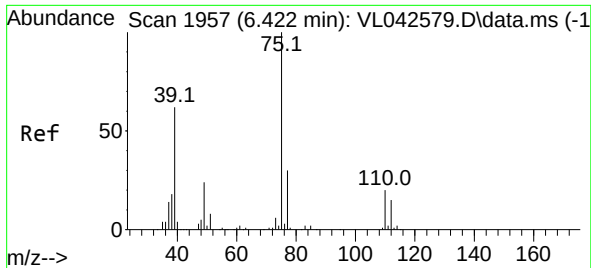
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#44
2,2,4-Trimethylpentane
Concen: 1.087 ppbv m
RT: 4.645 min Scan# 1408
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

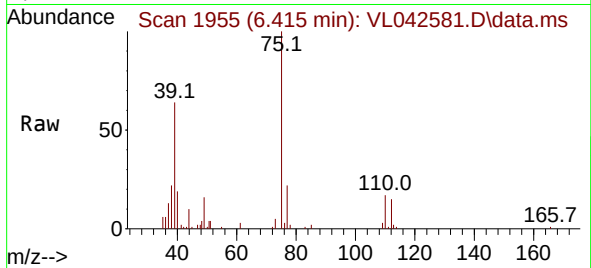
Tgt Ion: 57 Resp: 56202
Ion Ratio Lower Upper
57 100
41 33.5 26.1 39.1
56 32.4 25.9 38.9





#45
 t-1,3-Dichloropropene
 Concen: 1.041 ppbv m
 RT: 6.415 min Scan# 1957
 Delta R.T. -0.006 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

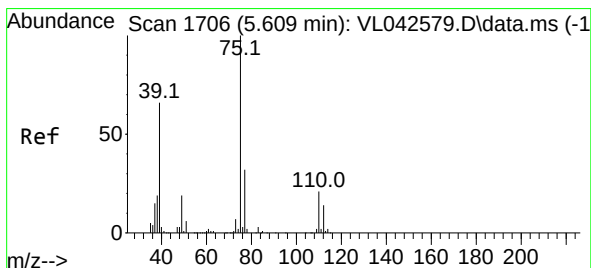
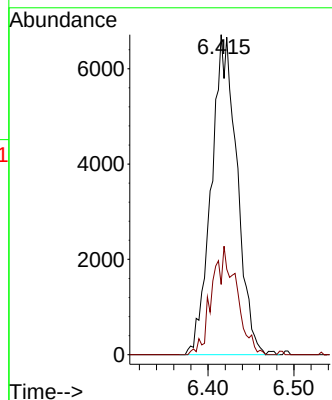
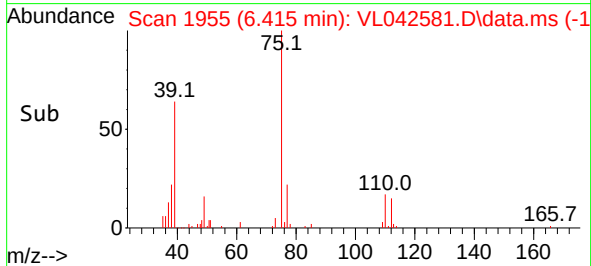
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 75 Resp: 1398
 Ion Ratio Lower Upper
 75 100
 77 22.0 24.2 36.2

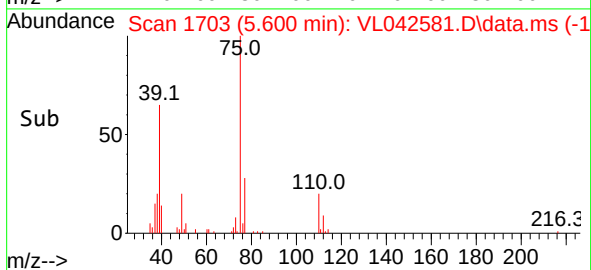
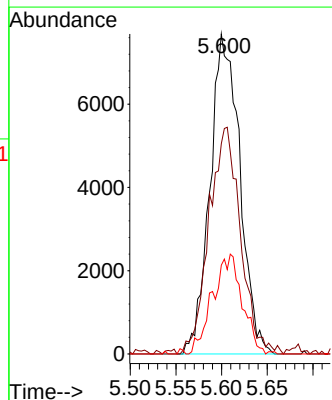
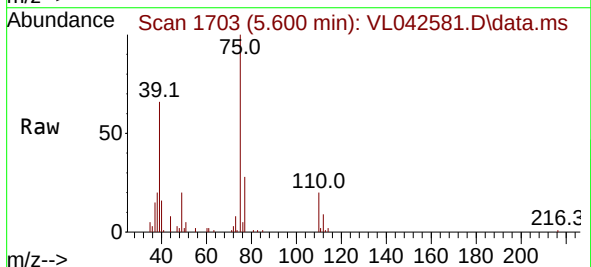
Manual Integrations
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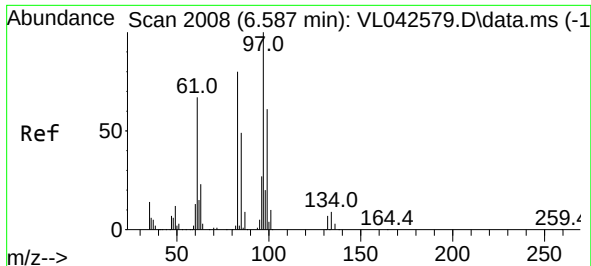
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#46
 cis-1,3-Dichloropropene
 Concen: 1.037 ppbv m
 RT: 5.600 min Scan# 1703
 Delta R.T. -0.010 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

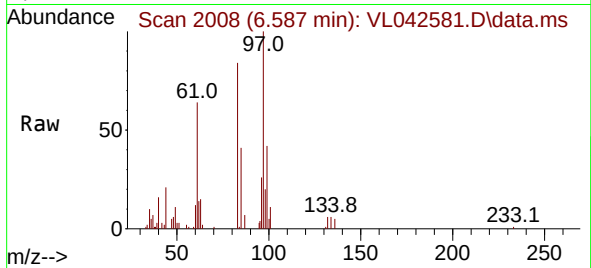
Tgt Ion: 75 Resp: 17453
 Ion Ratio Lower Upper
 75 100
 39 65.7 52.7 79.1
 77 27.8 25.8 38.8





#47
1,1,2-Trichloroethane
Concen: 1.065 ppbv m
RT: 6.587 min Scan# 2008
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

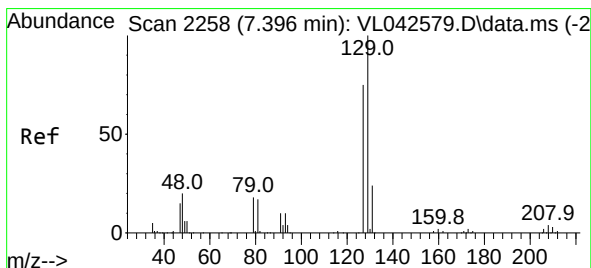
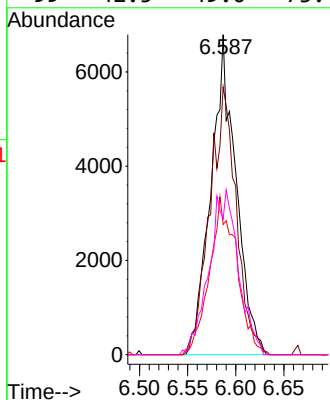
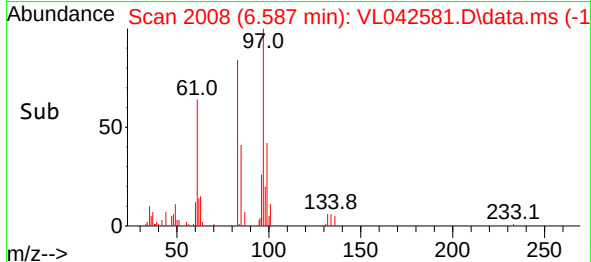
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion	Ratio	Lower	Upper
97	100		
83	83.6	63.9	95.9
85	40.7	39.2	58.8
99	42.5	49.0	73.4

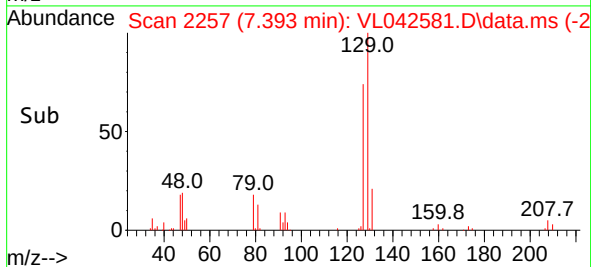
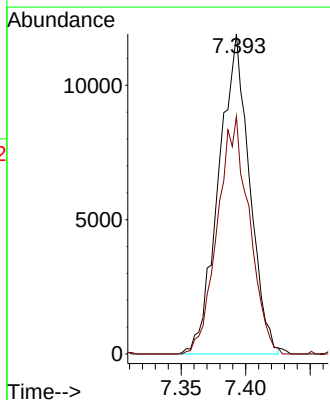
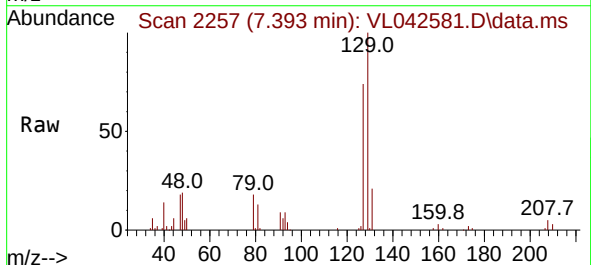
Manual Integrations
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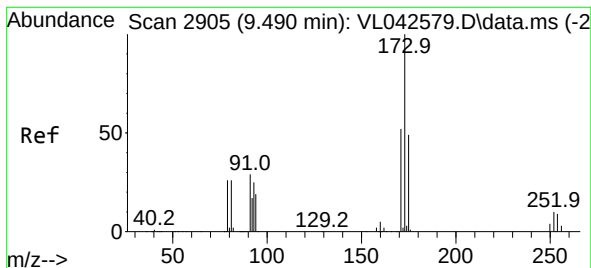
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#48
Dibromochloromethane
Concen: 1.064 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.0	116.9





#49

Bromoform

Concen: 0.996 ppbv

RT: 9.484 min Scan# 2905

Delta R.T. -0.006 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

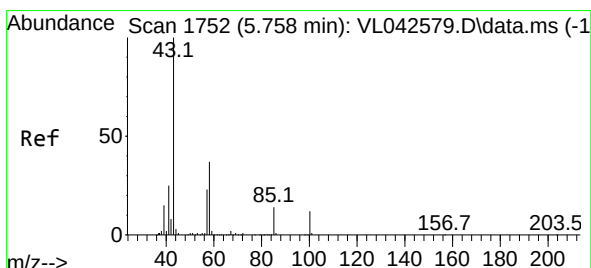
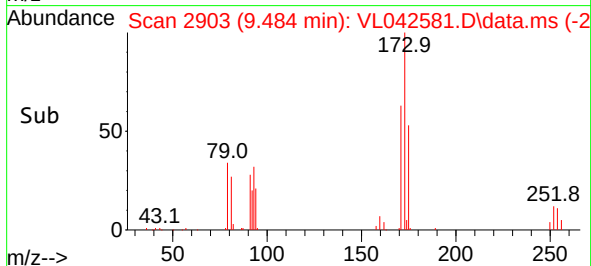
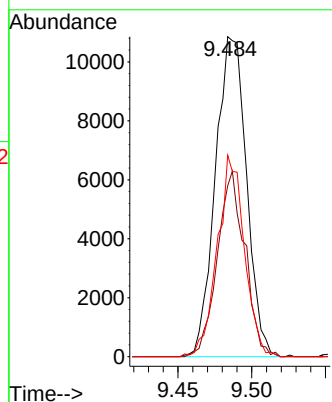
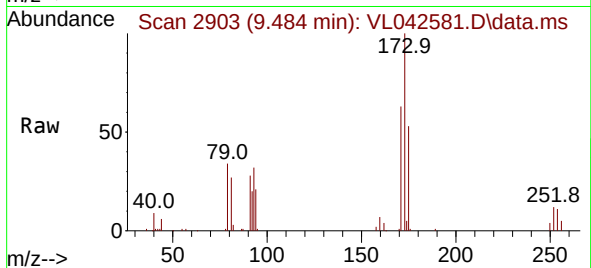
VSTDICC001

Tgt Ion:	173	Resp:	1593
Ion Ratio	Lower	Upper	
173	100		
175	51.3	38.7	58.1
171	54.6	41.2	61.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#50

4-Methyl-2-Pentanone

Concen: 1.037 ppbv

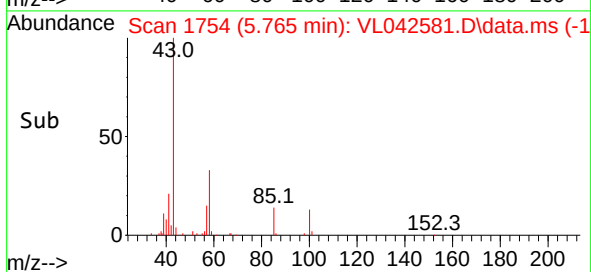
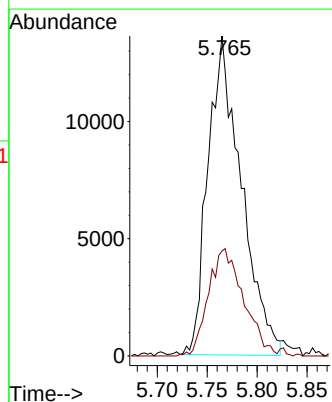
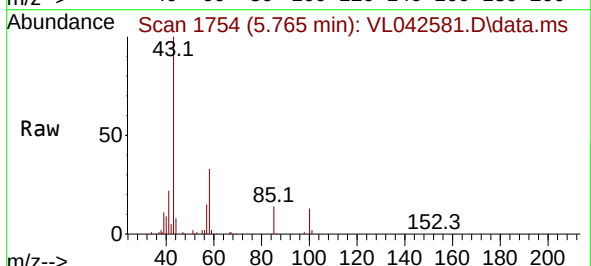
RT: 5.765 min Scan# 1754

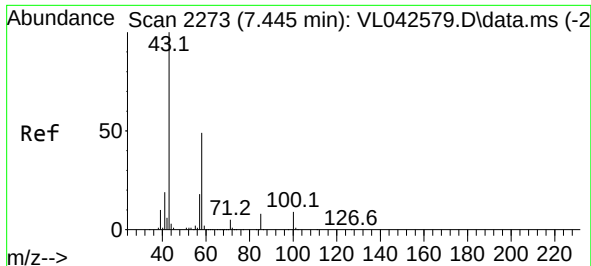
Delta R.T. 0.007 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

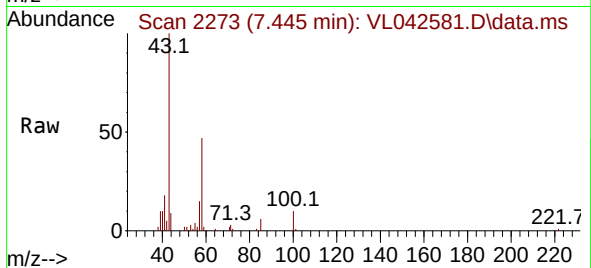
Tgt Ion:	43	Resp:	31646
Ion Ratio	Lower	Upper	
43	100		
58	36.0	28.3	42.5





#51
2-Hexanone
Concen: 1.043 ppbv
RT: 7.445 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

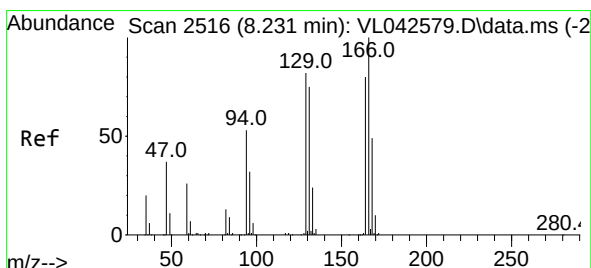
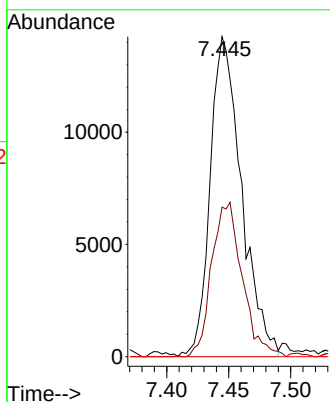
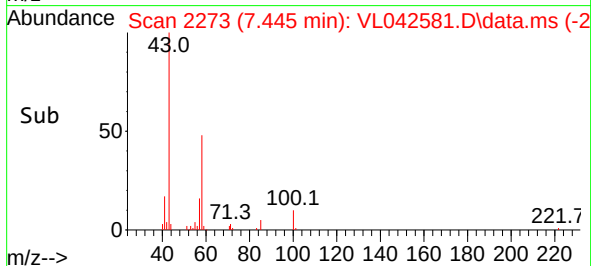
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



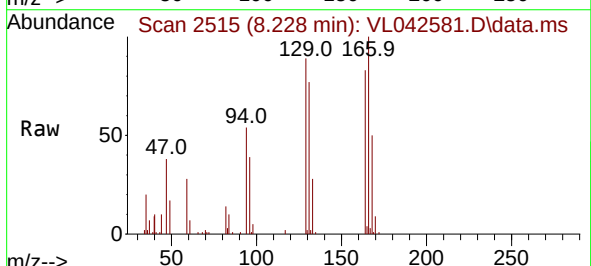
Tgt Ion: 43 Resp: 2513
Ion Ratio Lower Upper
43 100
58 47.5 39.9 59.9
98 0.1 0.1 0.1

Manual Integrations
APPROVED

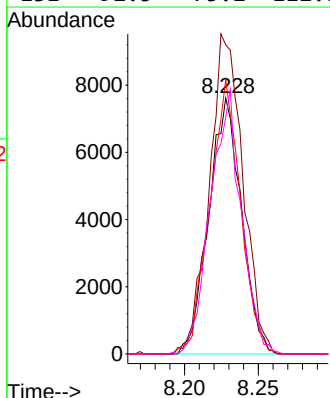
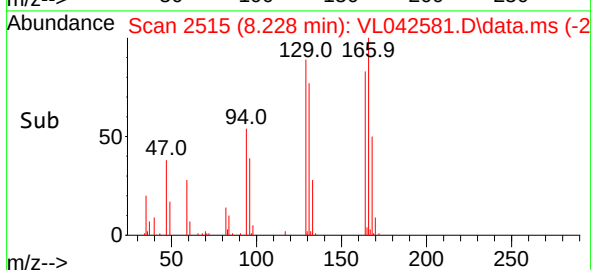
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

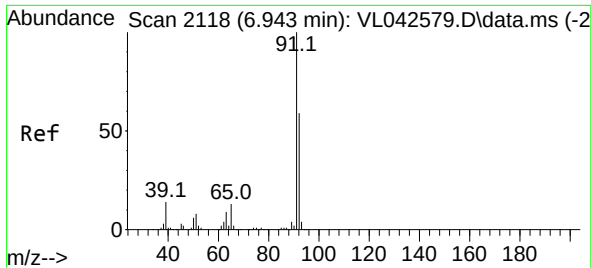


#52
Tetrachloroethene
Concen: 1.041 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15



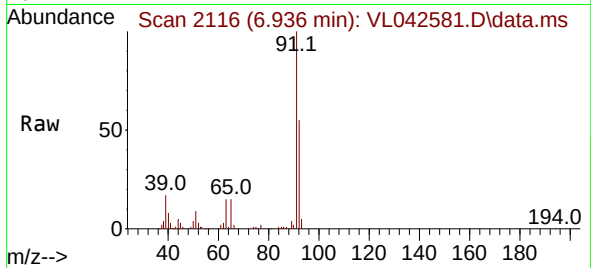
Tgt Ion:164 Resp: 11770
Ion Ratio Lower Upper
164 100
166 120.8 100.0 150.0
129 107.2 82.2 123.4
131 92.5 75.2 112.8





#53
Toluene
Concen: 1.045 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. -0.006 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

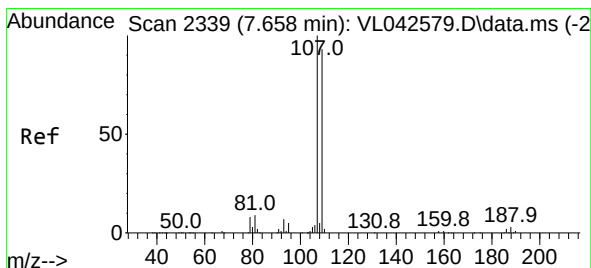
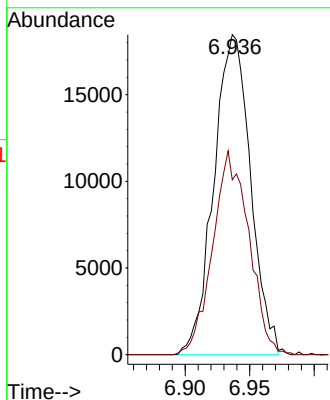
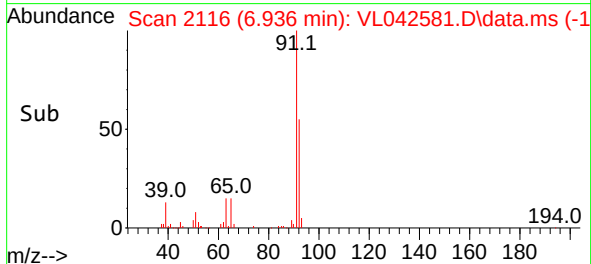
Instrument : MSVOA_L
ClientSampleId : VSTDIC001



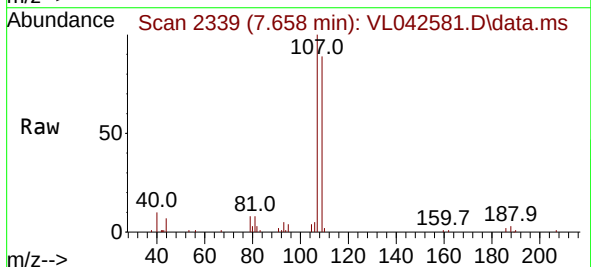
Tgt Ion: 91 Resp: 36540
Ion Ratio Lower Upper
91 100
92 62.6 48.2 72.4

Manual Integrations
APPROVED

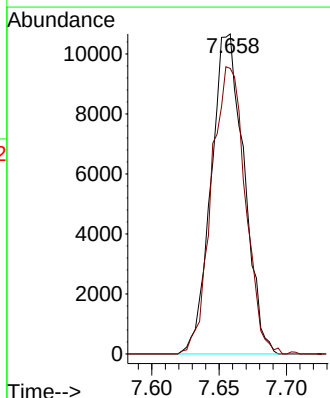
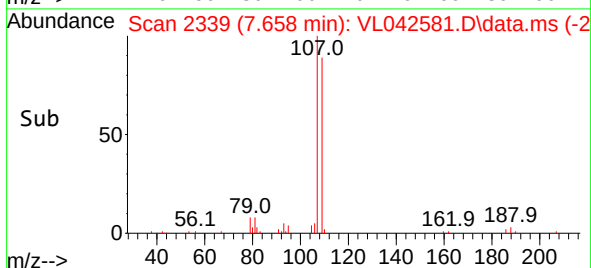
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

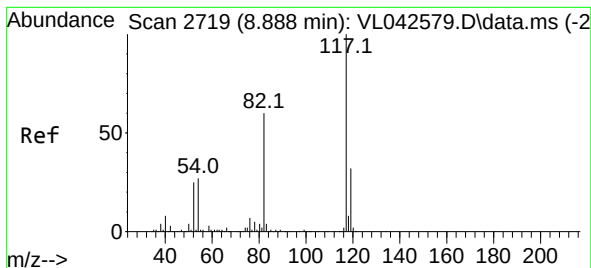


#54
1,2-Dibromoethane
Concen: 1.055 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15



Tgt Ion:107 Resp: 18114
Ion Ratio Lower Upper
107 100
109 89.3 74.3 111.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2719

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

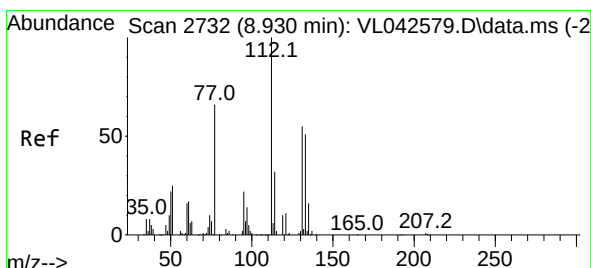
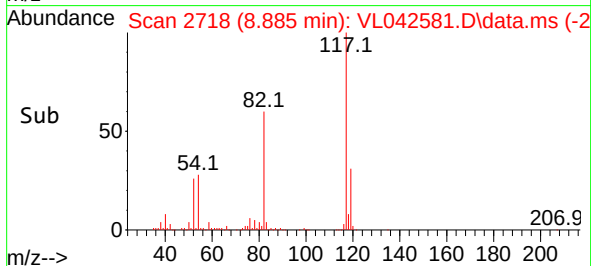
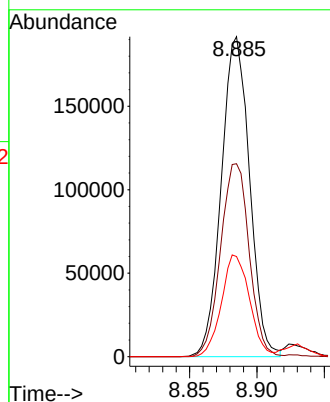
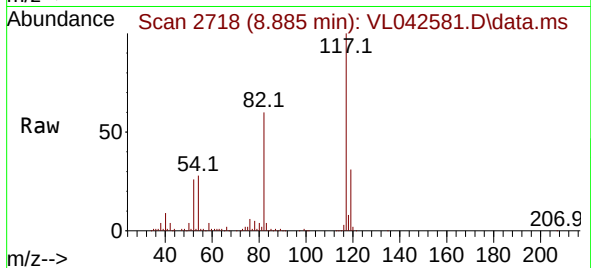
VSTDIC001

Tgt Ion:117 Resp: 27940
 Ion Ratio Lower Upper
 117 100
 82 61.5 51.2 76.8
 119 31.7 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 1.066 ppbv

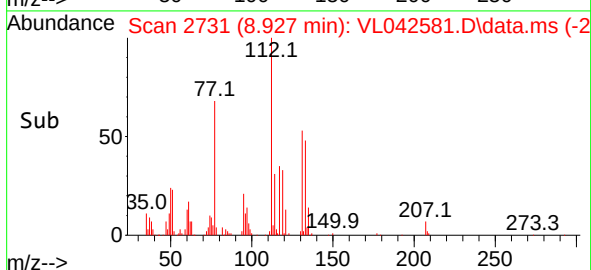
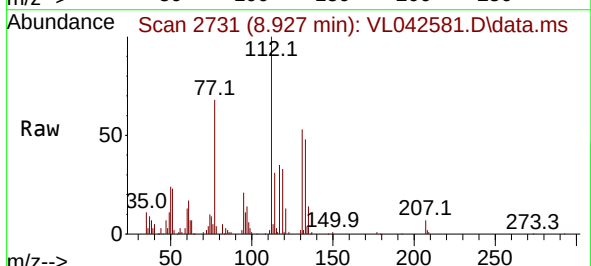
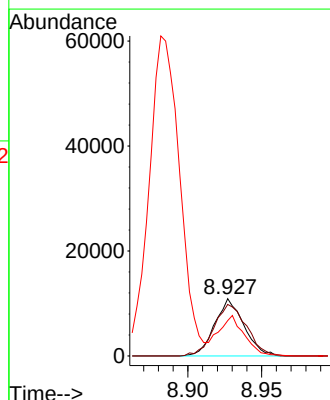
RT: 8.927 min Scan# 2731

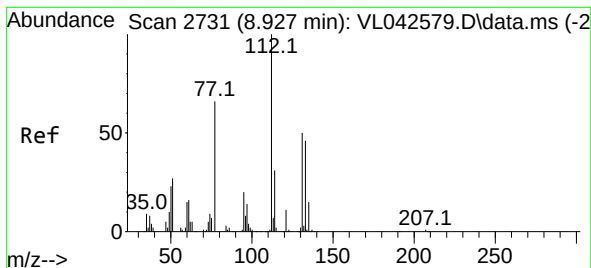
Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Tgt Ion:131 Resp: 14971
 Ion Ratio Lower Upper
 131 100
 133 101.1 75.0 112.6
 119 62.0 50.8 76.2





#57

Chlorobenzene

Concen: 1.058 ppbv

RT: 8.927 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

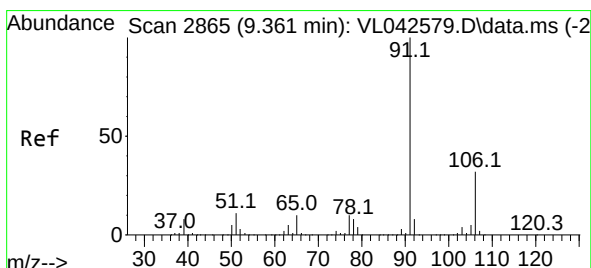
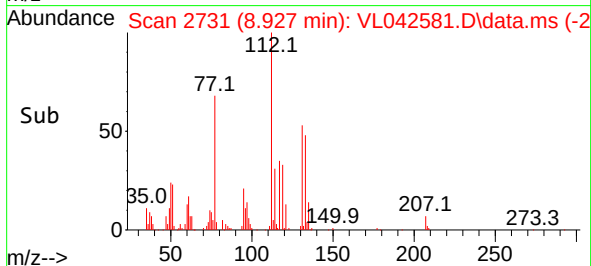
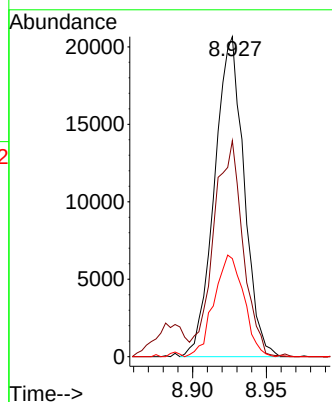
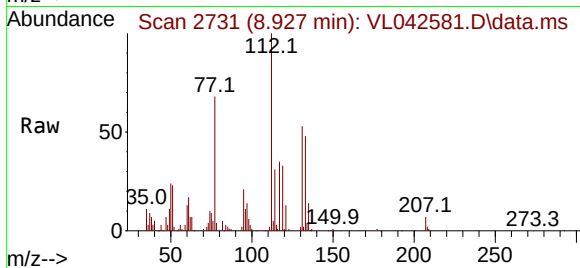
VSTDICC001

Tgt Ion:	112	Resp:	28714
Ion Ratio	Lower	Upper	
112	100		
77	67.1	53.5	80.3
114	30.4	27.8	34.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#58

Ethyl Benzene

Concen: 1.053 ppbv

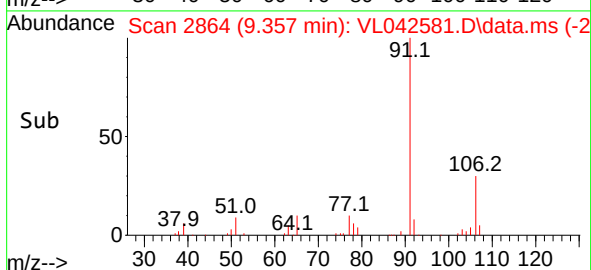
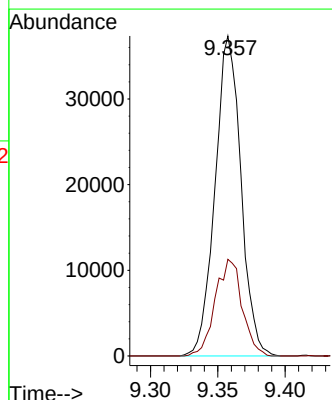
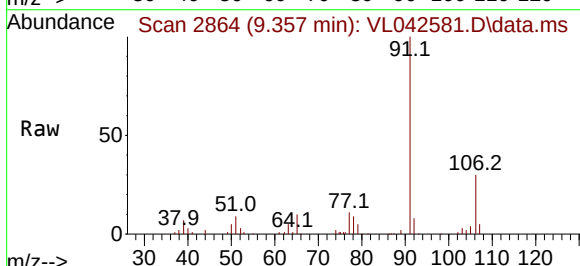
RT: 9.357 min Scan# 2864

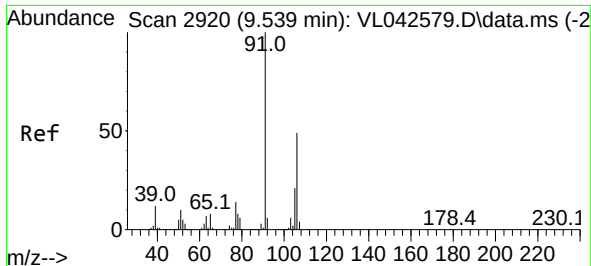
Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Tgt Ion:	91	Resp:	49899
Ion Ratio	Lower	Upper	
91	100		
106	30.2	25.9	38.9





#59

m/p-Xylene

Concen: 2.115 ppbv m

RT: 9.535 min Scan# 29

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 7889

Ion Ratio Lower Upper

91 100

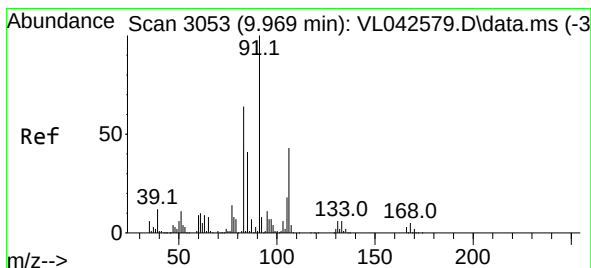
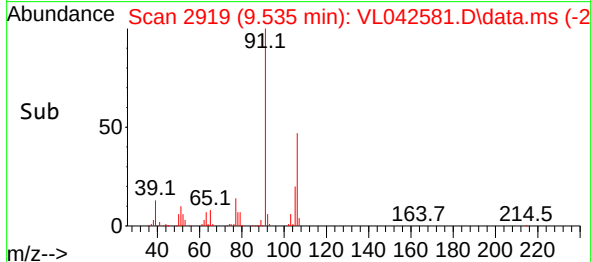
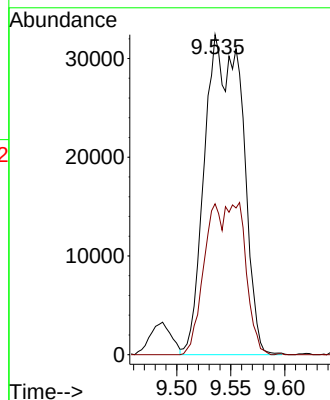
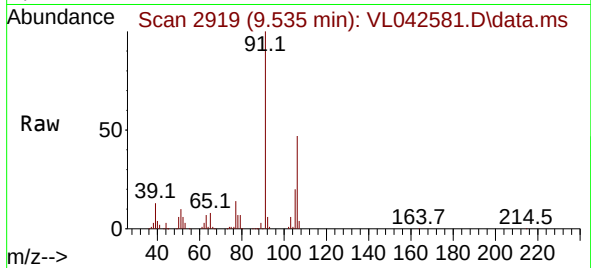
106 0.0 38.8 58.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#60

o-Xylene

Concen: 1.059 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.003 min

Lab File: VL042581.D

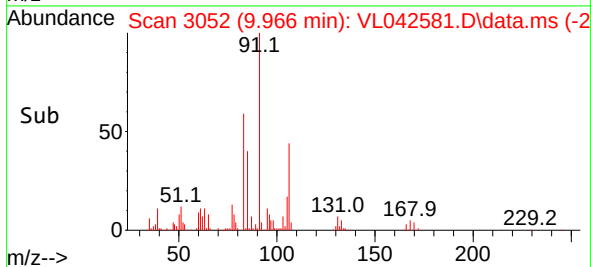
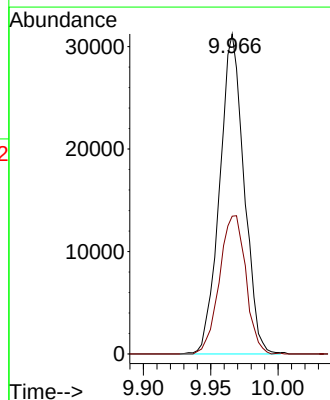
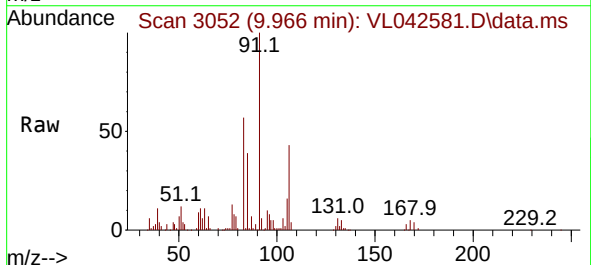
Acq: 29 May 2025 12:15

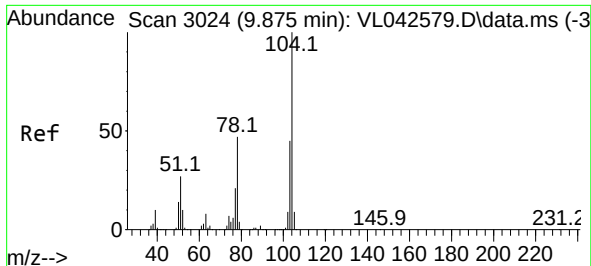
Tgt Ion: 91 Resp: 39398

Ion Ratio Lower Upper

91 100

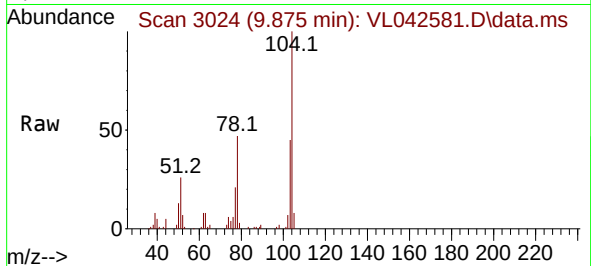
106 46.6 22.9 68.5





#61
Styrene
Concen: 1.045 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

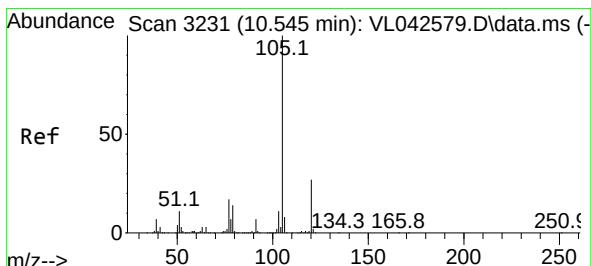
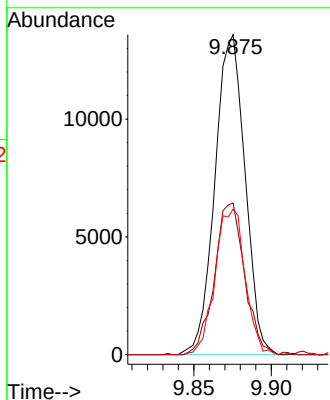
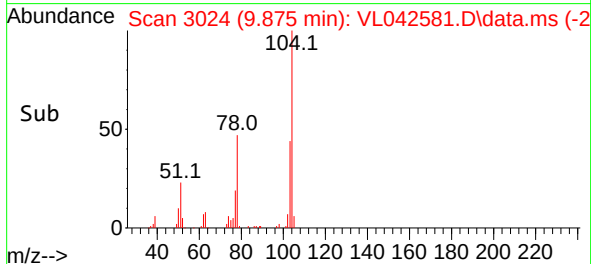
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



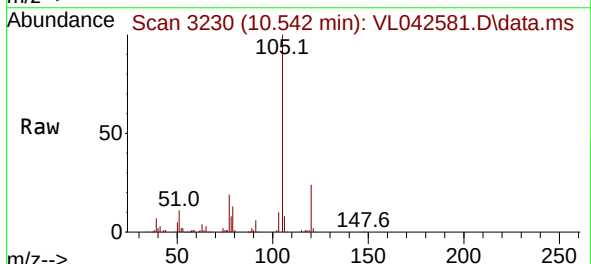
Tgt Ion:104 Resp: 1837
Ion Ratio Lower Upper
104 100
78 47.6 38.2 57.4
103 45.5 36.7 55.1

Manual Integrations
APPROVED

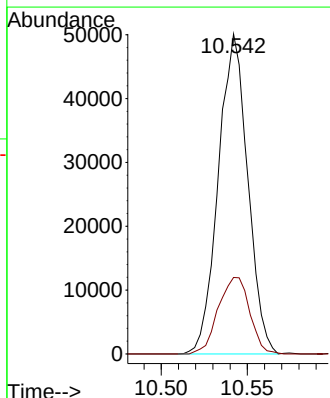
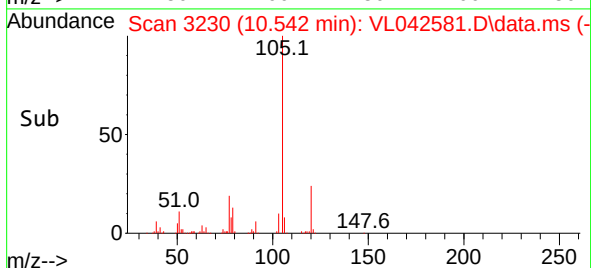
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

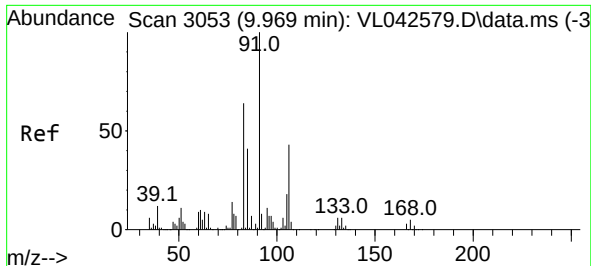


#62
Isopropylbenzene
Concen: 1.083 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15



Tgt Ion:105 Resp: 59492
Ion Ratio Lower Upper
105 100
120 25.5 20.9 31.3





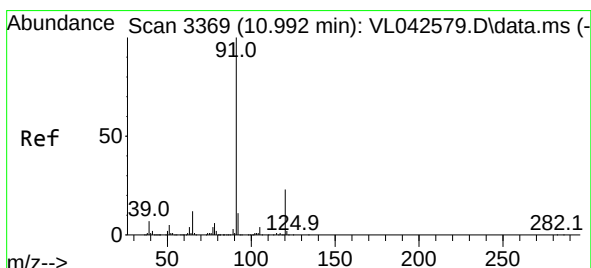
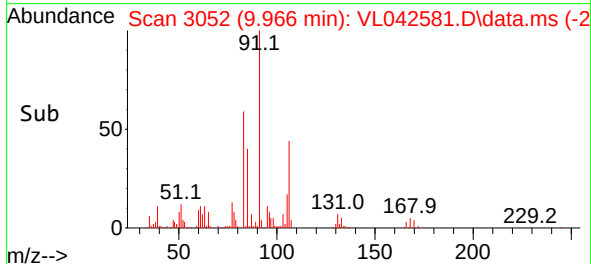
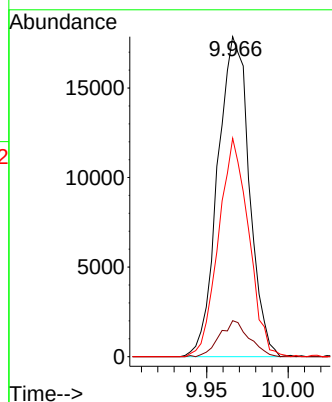
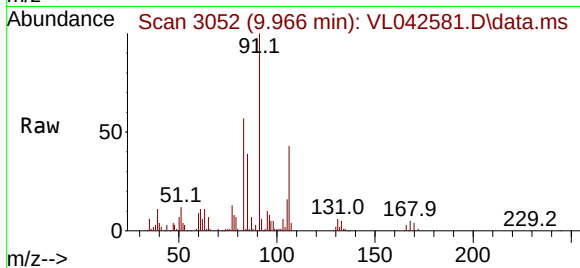
#63
1,1,2,2-Tetrachloroethane
Concen: 1.017 ppbv
RT: 9.966 min Scan# 3053
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2405
Ion Ratio Lower Upper
83 100
131 10.5 4.8 14.4
85 65.3 32.5 97.4

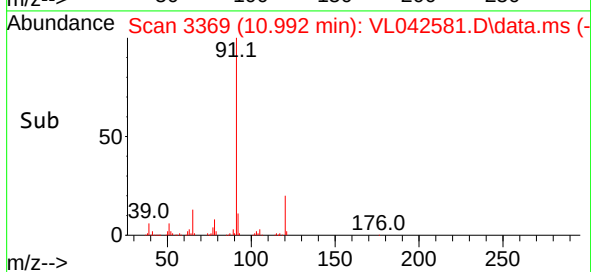
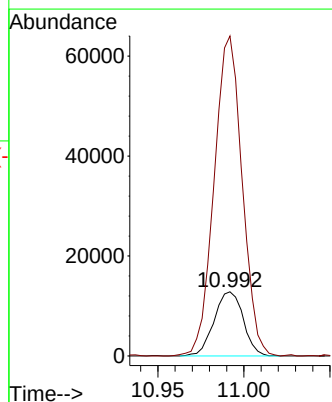
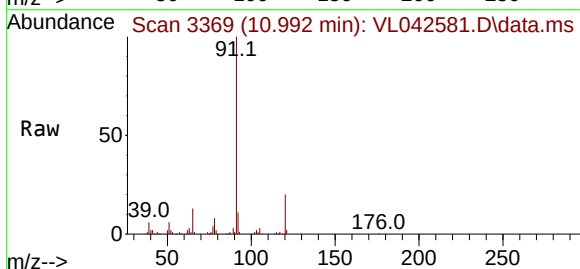
Manual Integrations
APPROVED

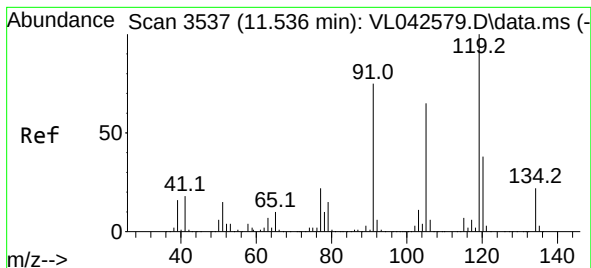
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#64
n-propylbenzene
Concen: 1.026 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

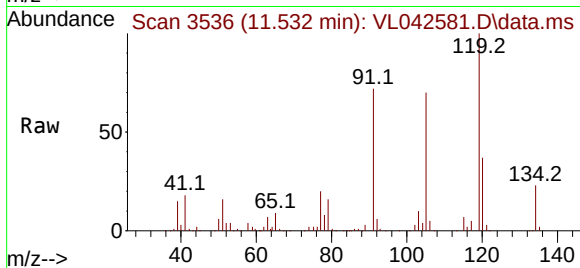
Tgt Ion:120 Resp: 15107
Ion Ratio Lower Upper
120 100
91 480.9 363.0 544.6





#65
tert-Butylbenzene
Concen: 1.077 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

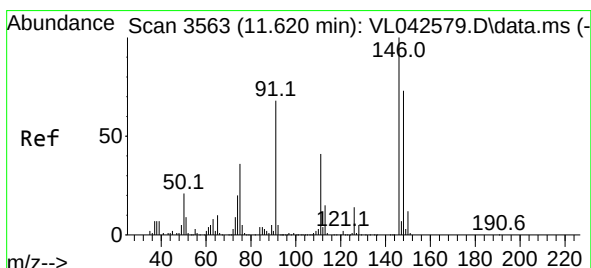
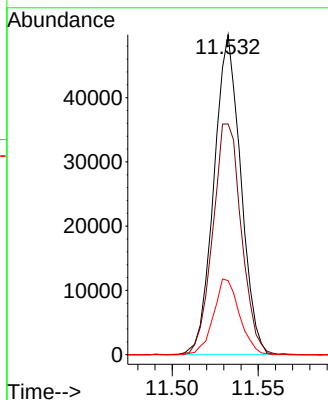
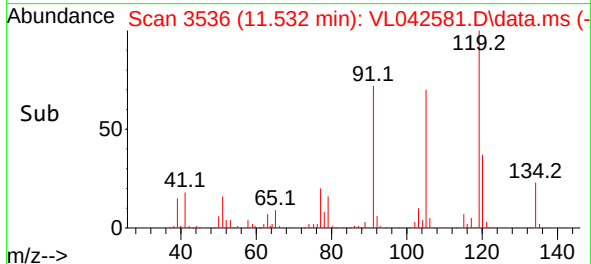
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 119 Resp: 53720
Ion Ratio Lower Upper
119 100
91 77.4 61.1 91.7
134 23.0 17.4 26.2

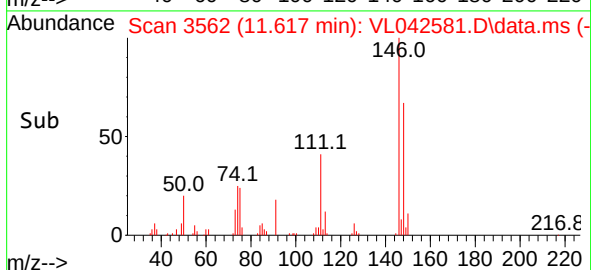
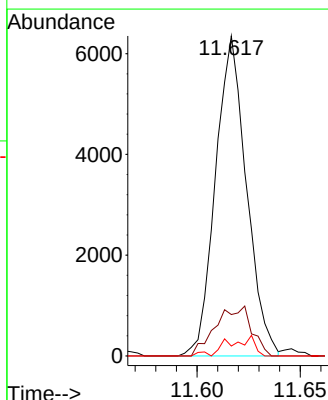
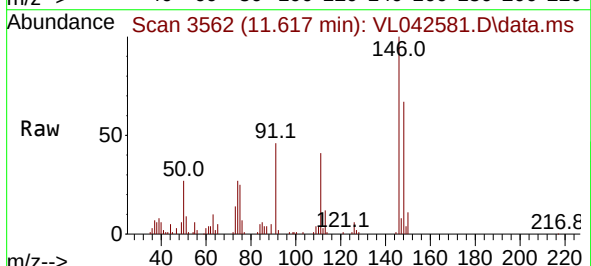
Manual Integrations
APPROVED

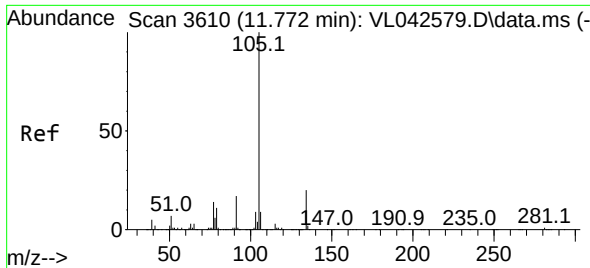
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#66
Benzyl Chloride
Concen: 1.029 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

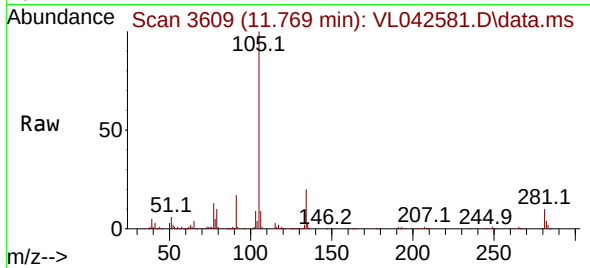
Tgt Ion: 91 Resp: 6617
Ion Ratio Lower Upper
91 100
126 18.1 15.1 22.7
128 5.3 5.0 7.6





#67
 sec-Butylbenzene
 Concen: 1.093 ppbv
 RT: 11.769 min Scan# 3179
 Delta R.T. -0.003 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

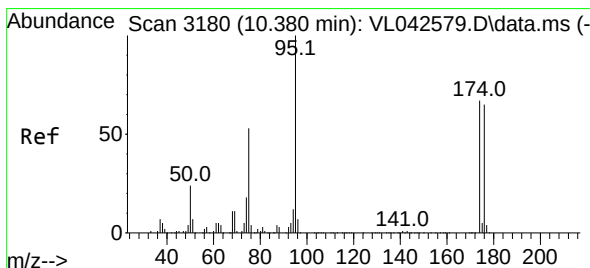
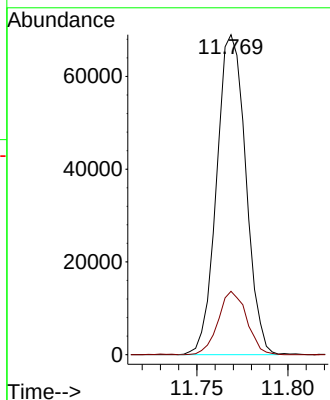
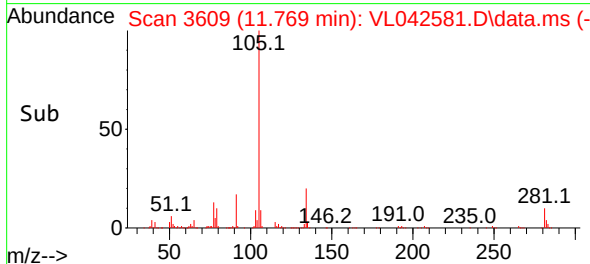
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



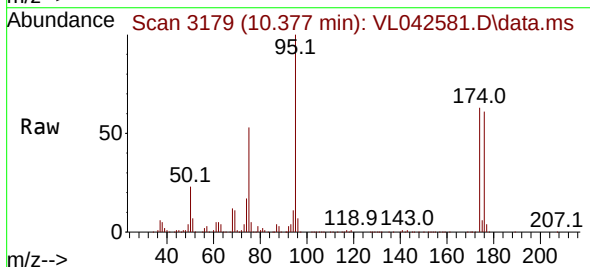
Tgt Ion:105 Resp: 7663
 Ion Ratio Lower Upper
 105 100
 134 19.5 15.8 23.6

Manual Integrations
 APPROVED

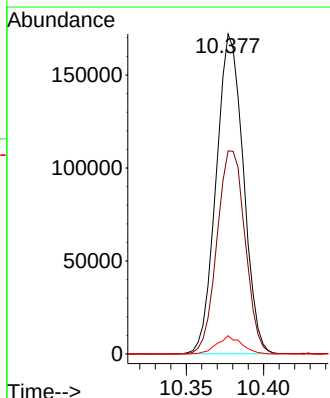
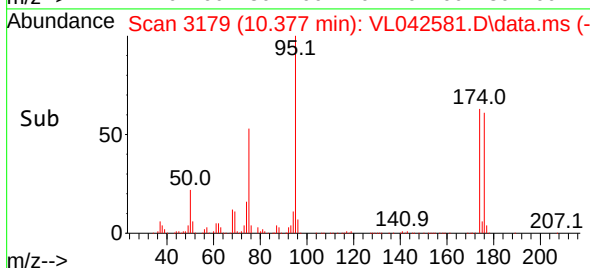
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

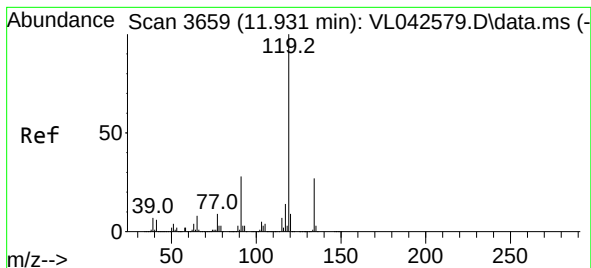


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.021 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.003 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15



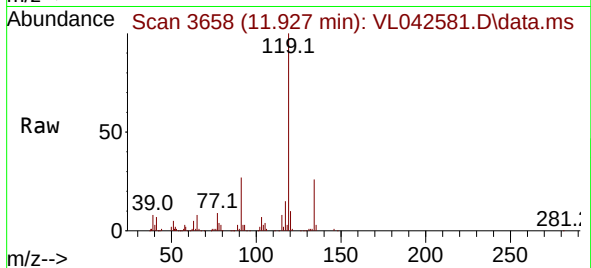
Tgt Ion: 95 Resp: 209886
 Ion Ratio Lower Upper
 95 100
 174 66.0 53.1 79.7
 175 5.1 4.2 6.2





#69
p-Isopropyltoluene
Concen: 1.070 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

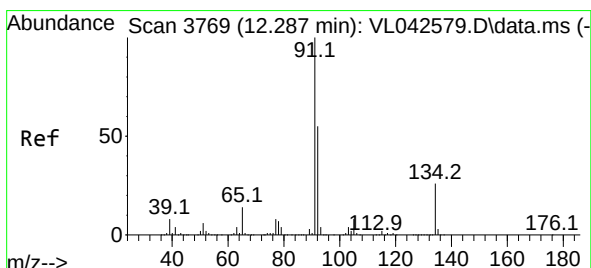
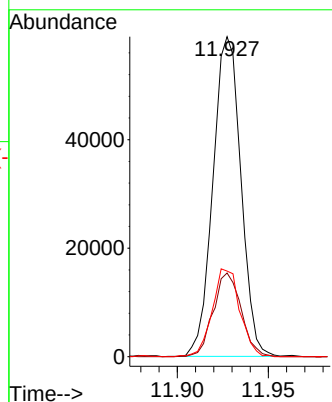
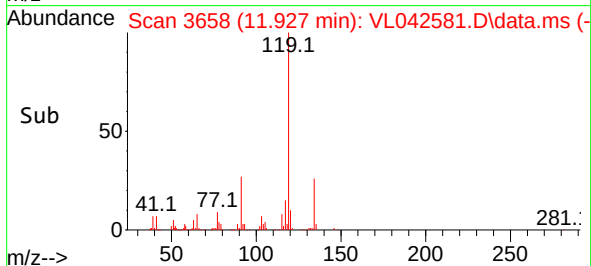
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



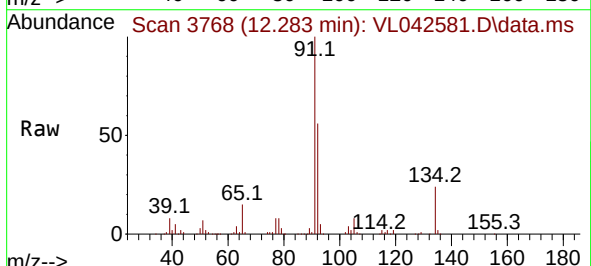
Tgt Ion:119 Resp: 62849
Ion Ratio Lower Upper
119 100
134 26.2 21.1 31.7
91 27.4 21.9 32.9

Manual Integrations
APPROVED

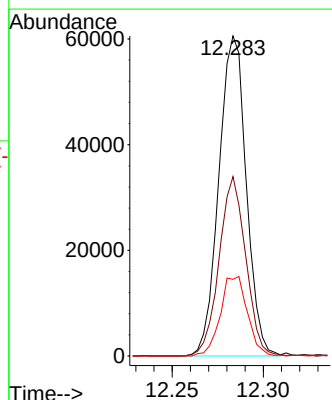
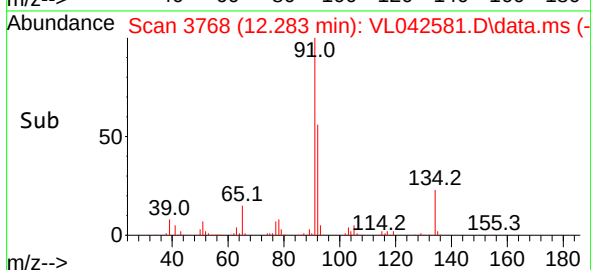
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

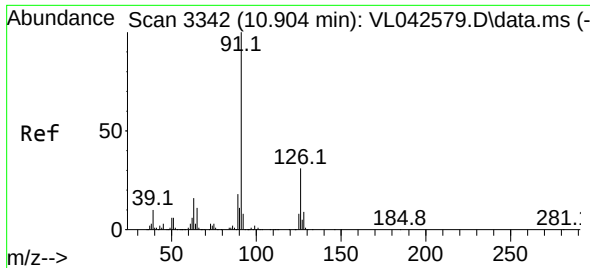


#70
n-Butylbenzene
Concen: 1.093 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15



Tgt Ion: 91 Resp: 63350
Ion Ratio Lower Upper
91 100
92 54.6 44.4 66.6
134 24.8 20.1 30.1





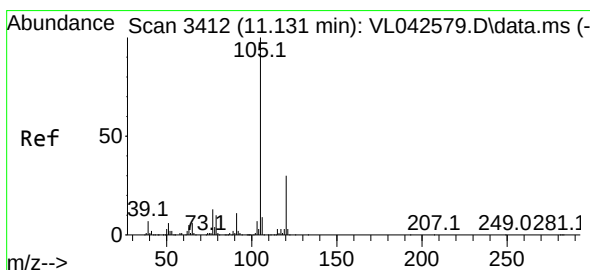
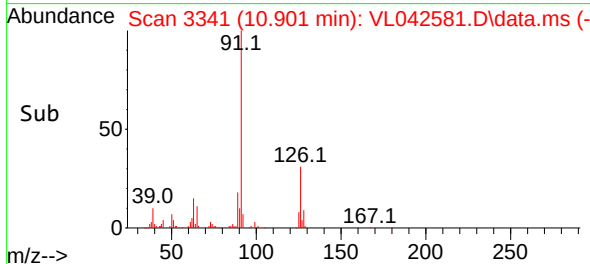
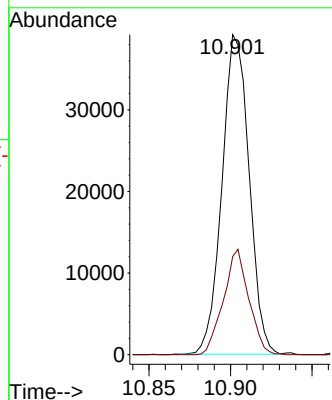
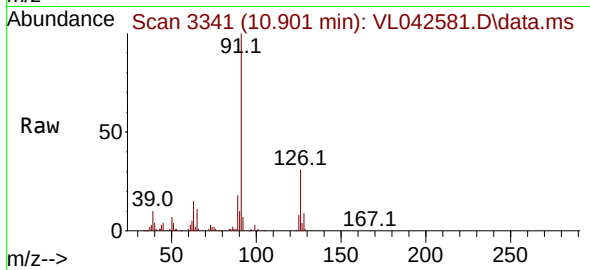
#71
2-Chlorotoluene
Concen: 1.080 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 45250
Ion Ratio Lower Upper
91 100
126 30.9 12.6 50.4

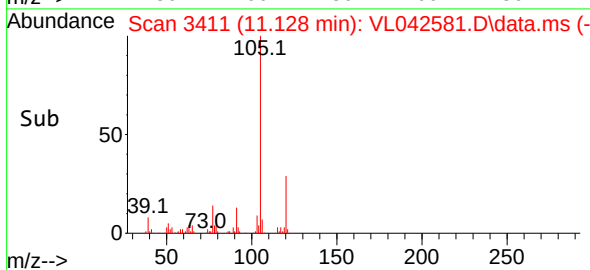
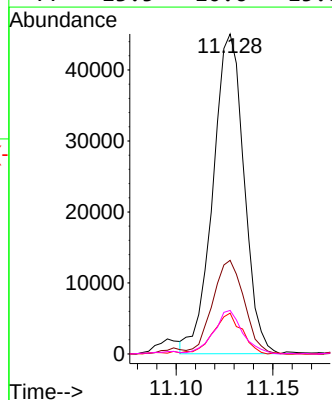
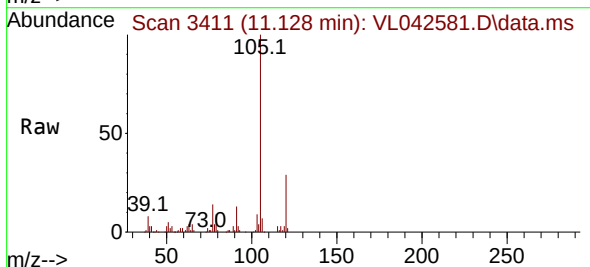
Manual Integrations
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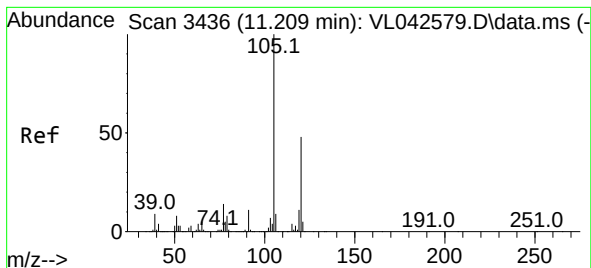
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#72
4-Ethyltoluene
Concen: 1.083 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion:105 Resp: 50214
Ion Ratio Lower Upper
105 100
120 31.0 24.6 36.8
91 12.6 9.6 14.4
77 13.5 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 1.079 ppbv

RT: 11.206 min Scan# 3436

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion:105 Resp: 4141

Ion Ratio Lower Upper

105 100

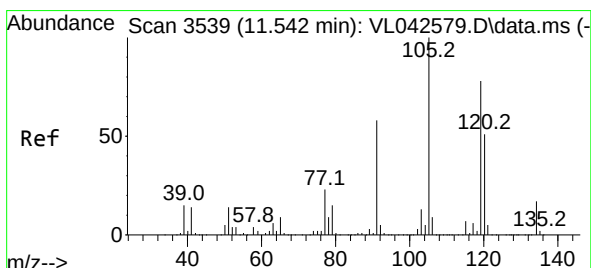
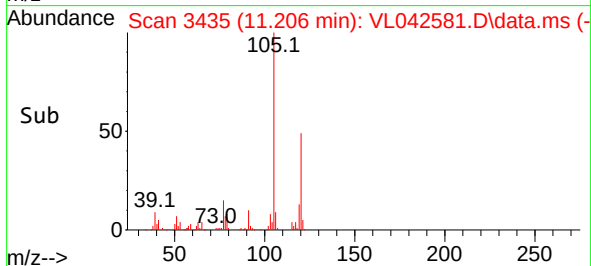
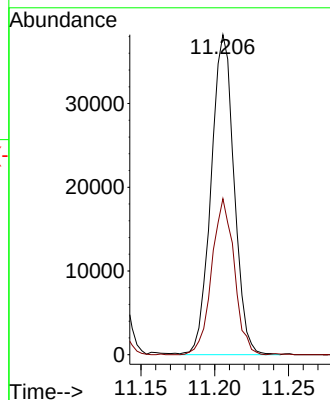
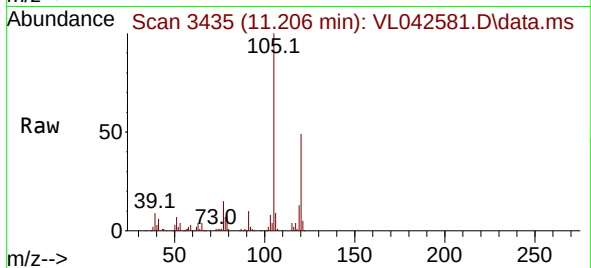
120 48.7 38.8 58.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#74

1,2,4-Trimethylbenzene

Concen: 1.099 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.006 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Tgt Ion:105 Resp: 46810

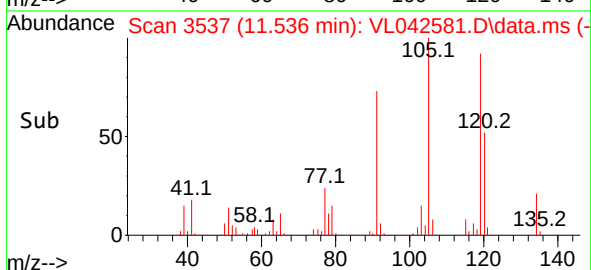
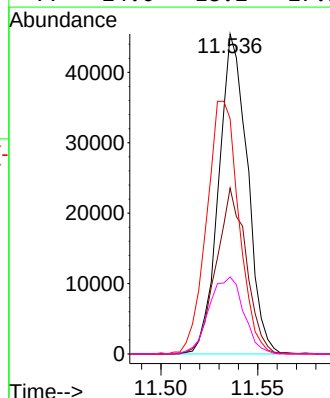
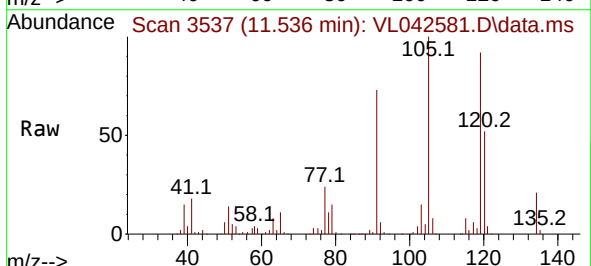
Ion Ratio Lower Upper

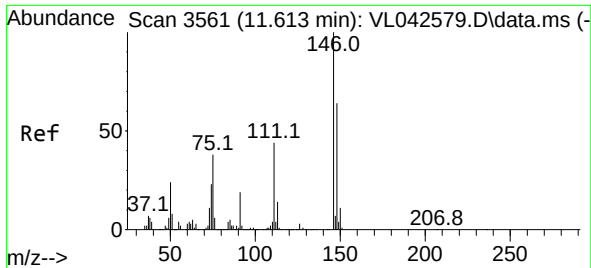
105 100

120 51.5 40.8 61.2

91 73.3 46.8 70.2#

77 24.0 18.2 27.2





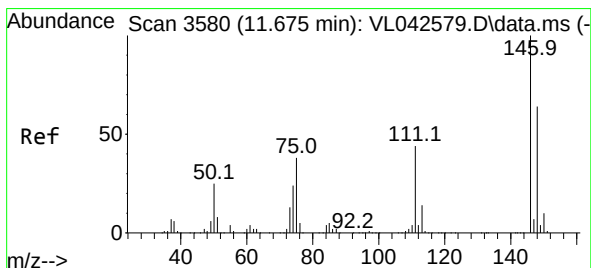
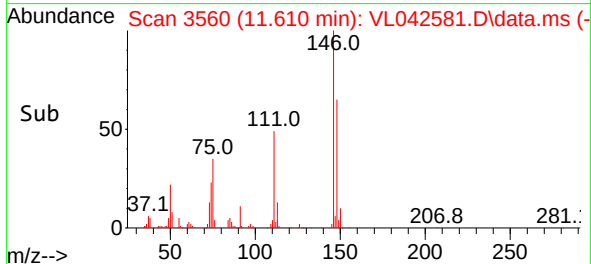
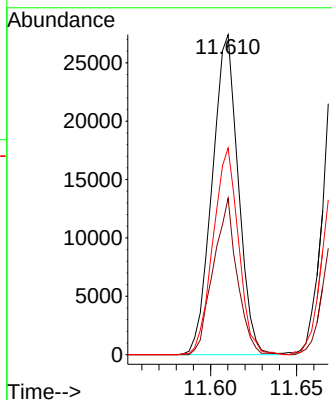
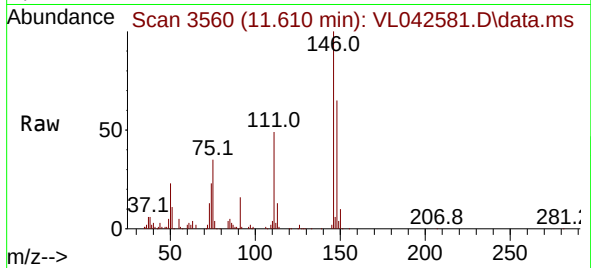
#75
1,3-Dichlorobenzene
Concen: 1.080 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Instrument : MSVOA_L
ClientSampleId : VSTDIC001

Tgt Ion:146 Resp: 28889
Ion Ratio Lower Upper
146 100
111 44.7 22.4 67.3
148 63.1 32.0 96.2

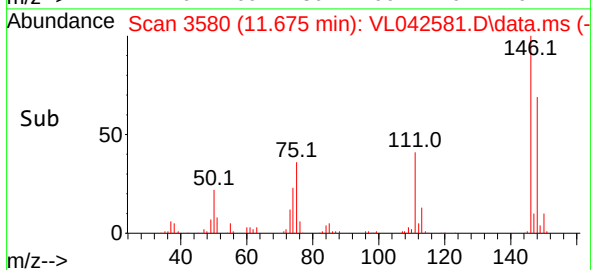
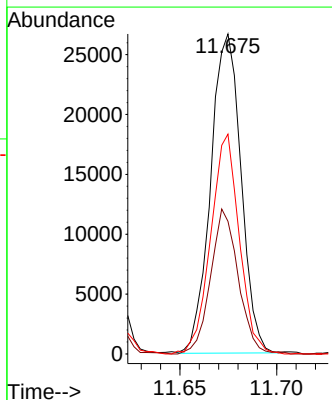
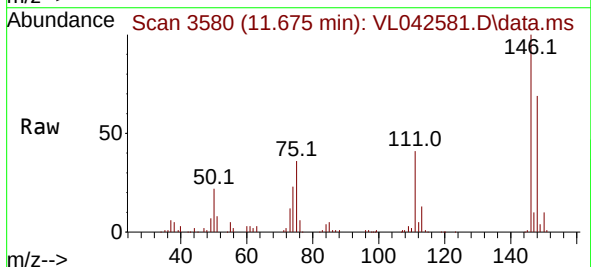
Manual Integrations
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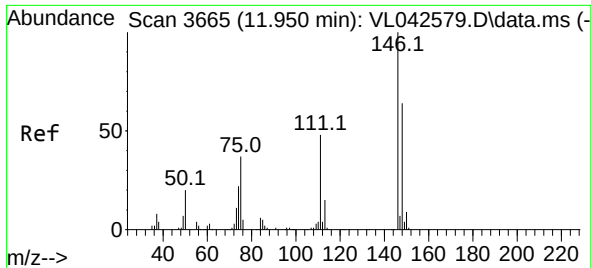
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#76
1,4-Dichlorobenzene
Concen: 1.089 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion:146 Resp: 29060
Ion Ratio Lower Upper
146 100
111 41.4 21.6 64.8
148 64.9 32.1 96.5





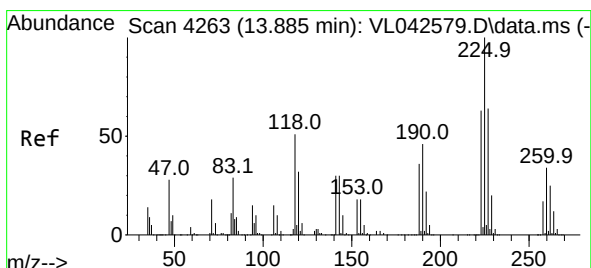
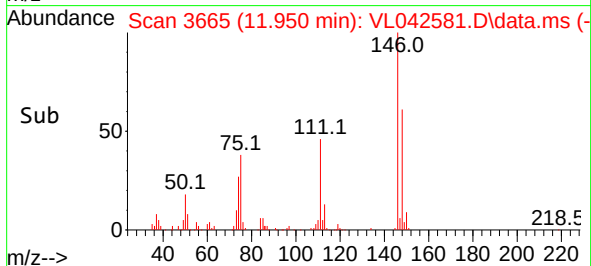
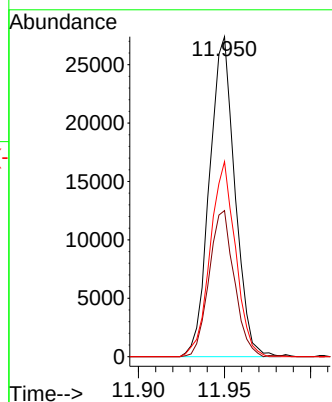
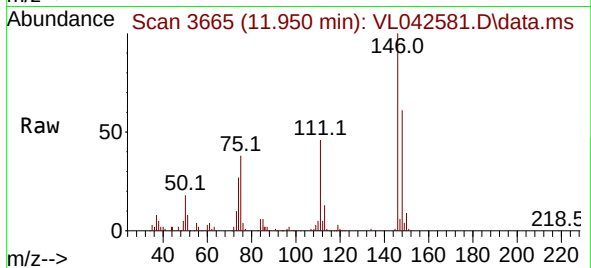
#77
1,2-Dichlorobenzene
Concen: 1.085 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:146 Resp: 28170
Ion Ratio Lower Upper
146 100
111 45.4 23.1 69.3
148 60.6 32.1 96.3

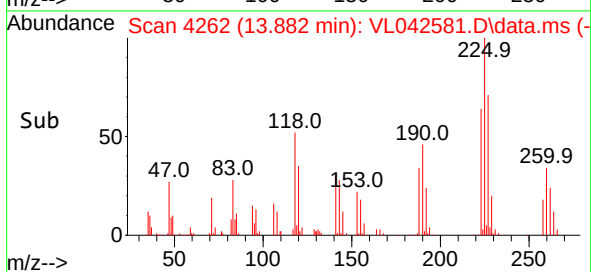
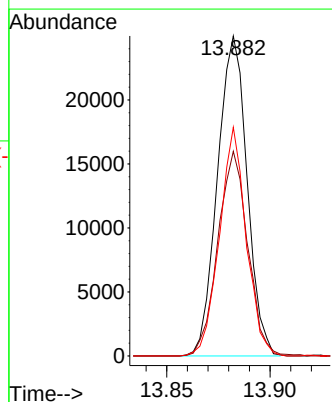
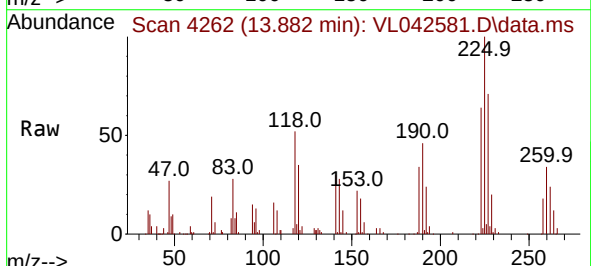
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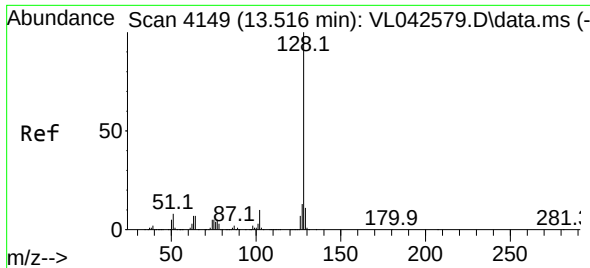
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#78
Hexachloro-1,3-Butadiene
Concen: 1.162 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

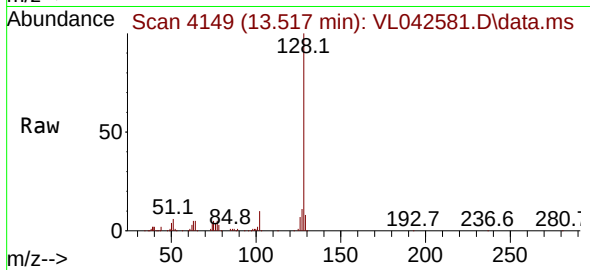
Tgt Ion:225 Resp: 24950
Ion Ratio Lower Upper
225 100
223 64.6 50.2 75.4
227 64.6 51.1 76.7





#79
Naphthalene
Concen: 1.141 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

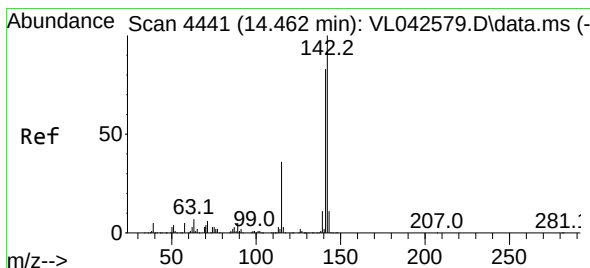
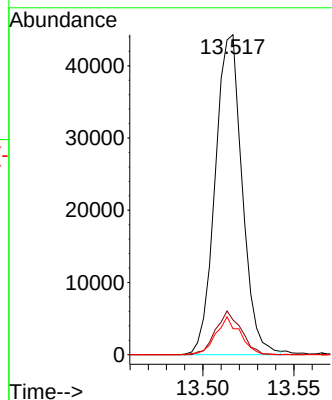
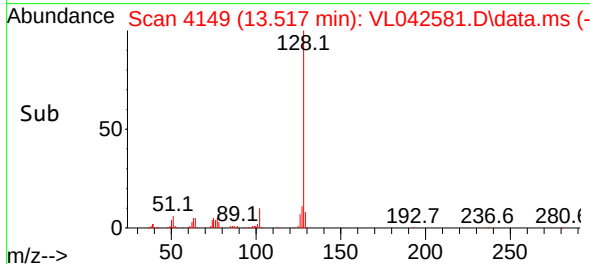
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



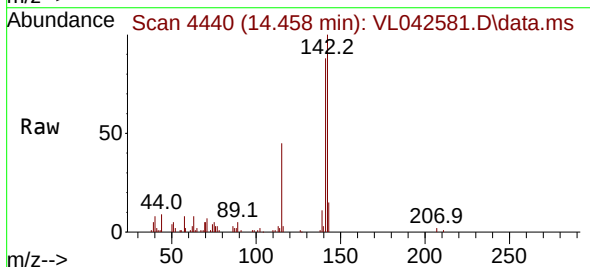
Tgt Ion:128 Resp: 45649
Ion Ratio Lower Upper
128 100
127 10.9 10.2 15.4
129 8.1 8.8 13.2

Manual Integrations
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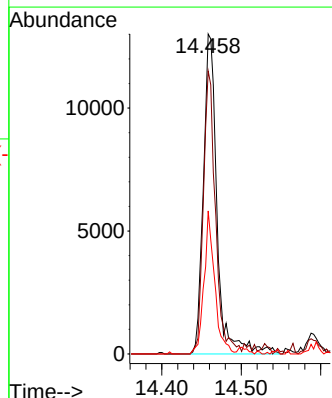
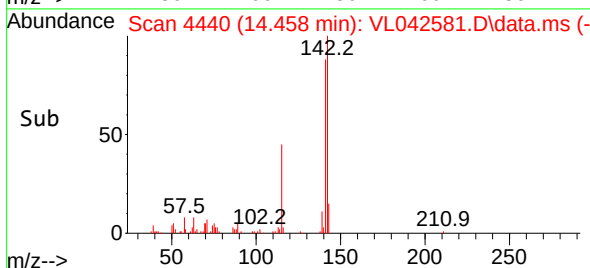
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

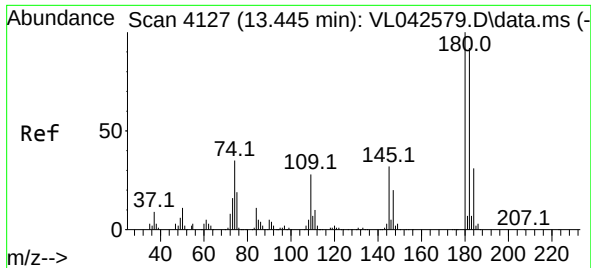


#80
Naphthalene,2-methyl-
Concen: 0.866 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15



Tgt Ion:142 Resp: 15700
Ion Ratio Lower Upper
142 100
141 78.1 66.2 99.4
115 36.5 28.3 42.5





#81

1,2,4-Trichlorobenzene

Concen: 1.108 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:180 Resp: 2484

Ion Ratio Lower Upper

180 100

182 90.6 75.0 112.4

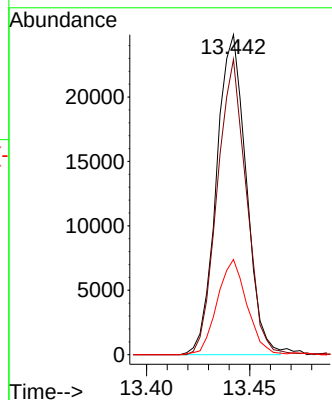
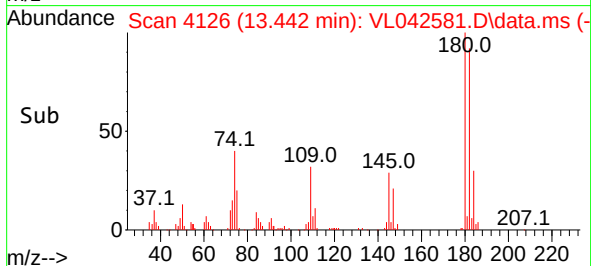
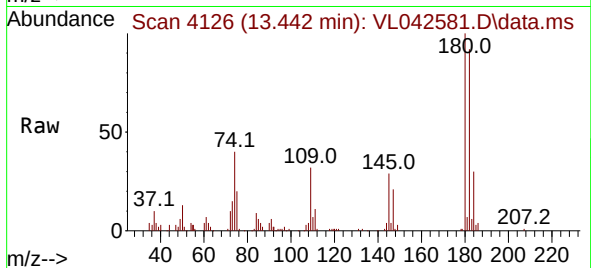
184 30.0 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042582.D
 Acq On : 29 May 2025 12:47
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: May 30 01:19:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

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

Internal Standards						
1) Bromochloromethane	2.790	49	102909	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	304613	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	276104	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	208325	10.065	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.700%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	6470	0.512	ppbv	98
3) Chlorodifluoromethane	1.476	51	9678	0.556	ppbv	96
4) Chloromethane	1.531	50	2584	0.516	ppbv	97
5) Vinyl Chloride	1.580	62	2721	0.533	ppbv	96
6) Bromomethane	1.667	94	1594	0.642	ppbv #	74
7) Chloroethane	1.706	64	1099	0.554	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	5655	0.537	ppbv	97
9) Propene	1.483	41	3653	0.521	ppbv	87
10) Heptane	4.988	43	10697	0.540	ppbv	98
11) Trichlorofluoromethane	1.878	101	6138	0.522	ppbv	91
12) 1,1,2-Trichlorotrifluo...	2.140	101	4647	0.503	ppbv	89
13) Ethanol	1.722	45	586m	0.748	ppbv	
14) Bromoethene	1.781	108	1849	0.532	ppbv #	84
15) Acetone	1.836	43	7225	0.583	ppbv	95
16) 1,3-Butadiene	1.609	39	3340	0.569	ppbv	89
17) tert-Butyl alcohol	2.046	59	6877	0.533	ppbv #	92
18) 1,1-Dichloroethene	2.036	96	2319	0.539	ppbv #	73
19) Isopropyl Alcohol	1.887	45	4245	0.573	ppbv #	44
20) Methylene Chloride	2.062	84	2435	0.595	ppbv	93
21) Allyl Chloride	2.098	41	4754	0.544	ppbv	96
22) trans-1,2-Dichloroethene	2.341	96	2553	0.532	ppbv	93
23) Vinyl Acetate	2.464	43	9005	0.537	ppbv #	86
24) 1,1-Dichloroethane	2.409	63	5127	0.521	ppbv #	89
25) Ethyl Acetate	2.842	43	17990	0.530	ppbv	98
26) Hexane	2.826	57	8694	0.564	ppbv	96
27) Carbon Disulfide	2.153	76	6043	0.511	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	3416	0.546	ppbv #	81
29) Chloroform	2.849	83	10798	0.539	ppbv	98
30) Cyclohexane	3.855	84	6784m	0.531	ppbv	
31) cis-1,2-Dichloroethene	2.722	61	7302	0.518	ppbv	97
32) 1,1,1-Trichloroethane	3.367	97	10309	0.513	ppbv	98
34) 2-Butanone	2.564	43	11569	0.533	ppbv	99
35) Carbon Tetrachloride	3.761	117	10126	0.503	ppbv	92
36) Benzene	3.661	78	16000	0.533	ppbv	95
37) 1,2-Dichloroethane	3.224	62	7883	0.529	ppbv	98
38) Trichloroethene	4.554	130	7126	0.555	ppbv	92
39) 1,2-Dichloropropane	4.318	63	6317m	0.570	ppbv	
40) 1,4-Dioxane	4.609	88	2618m	0.555	ppbv	
41) Tetrahydrofuran	3.066	42	6775	0.533	ppbv	96
42) Bromodichloromethane	4.490	83	10688	0.505	ppbv	94
43) Methyl Methacrylate	4.888	69	6056	0.521	ppbv	96
44) 2,2,4-Trimethylpentane	4.645	57	27584	0.538	ppbv	96
45) t-1,3-Dichloropropene	6.422	75	6598	0.495	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042582.D
 Acq On : 29 May 2025 12:47
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:19:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

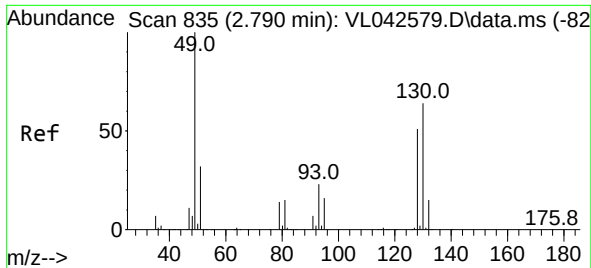
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

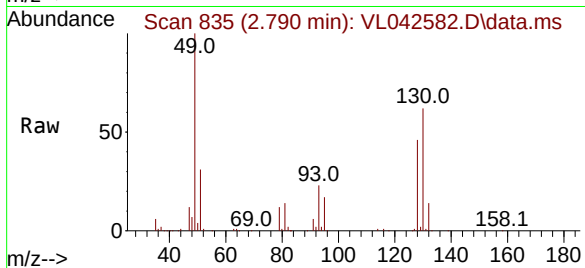
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	8637m	0.518	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	6189m	0.539	ppbv	
48) Dibromochloromethane	7.399	129	9133m	0.497	ppbv	
49) Bromoform	9.484	173	7974	0.503	ppbv	98
50) 4-Methyl-2-Pentanone	5.771	43	15782m	0.522	ppbv	
51) 2-Hexanone	7.451	43	11458	0.479	ppbv #	98
52) Tetrachloroethene	8.231	164	5950	0.531	ppbv	87
53) Toluene	6.940	91	18429	0.532	ppbv	100
54) 1,2-Dibromoethane	7.655	107	8810	0.518	ppbv	82
56) 1,1,1,2-Tetrachloroethane	8.934	131	7178	0.517	ppbv	89
57) Chlorobenzene	8.930	112	14920	0.557	ppbv	89
58) Ethyl Benzene	9.358	91	24442	0.522	ppbv	88
59) m/p-Xylene	9.555	91	38955m	1.057	ppbv	
60) o-Xylene	9.966	91	19745	0.537	ppbv	99
61) Styrene	9.875	104	8639	0.497	ppbv	99
62) Isopropylbenzene	10.545	105	28442	0.524	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	12137	0.519	ppbv	97
64) n-propylbenzene	10.995	120	7993	0.549	ppbv	97
65) tert-Butylbenzene	11.533	119	26856	0.545	ppbv	99
66) Benzyl Chloride	11.614	91	2753m	0.433	ppbv	
67) sec-Butylbenzene	11.769	105	37899	0.547	ppbv	98
69) p-Isopropyltoluene	11.931	119	30931	0.533	ppbv	99
70) n-Butylbenzene	12.284	91	29130	0.509	ppbv	98
71) 2-Chlorotoluene	10.905	91	22135	0.534	ppbv	100
72) 4-Ethyltoluene	11.128	105	23521	0.513	ppbv	97
73) 1,3,5-Trimethylbenzene	11.206	105	19891	0.524	ppbv	86
74) 1,2,4-Trimethylbenzene	11.536	105	22635	0.538	ppbv #	83
75) 1,3-Dichlorobenzene	11.610	146	14232	0.538	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	13773	0.522	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	14062	0.548	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	12036	0.567	ppbv	97
79) Naphthalene	13.517	128	18853	0.477	ppbv	96
80) Naphthalene,2-methyl-	14.462	142	6126	0.342	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	9879	0.446	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

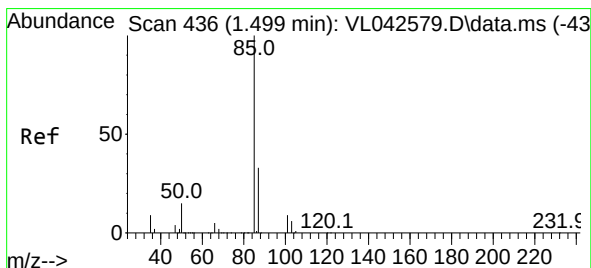
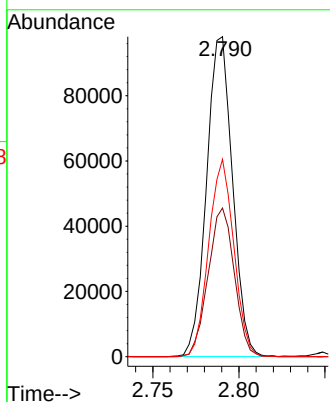
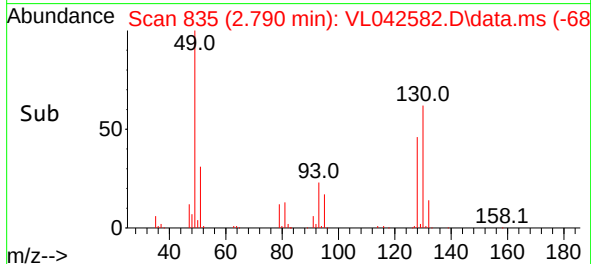
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



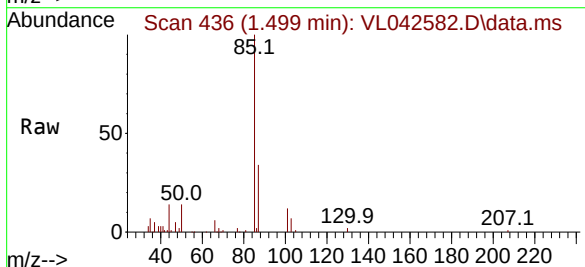
Tgt Ion: 49 Resp: 102909
Ion Ratio Lower Upper
49 100
128 46.9 24.2 72.6
130 59.7 30.4 91.2

Manual Integrations
APPROVED

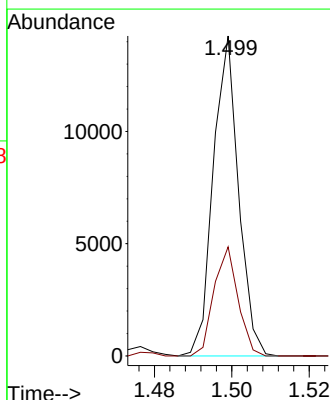
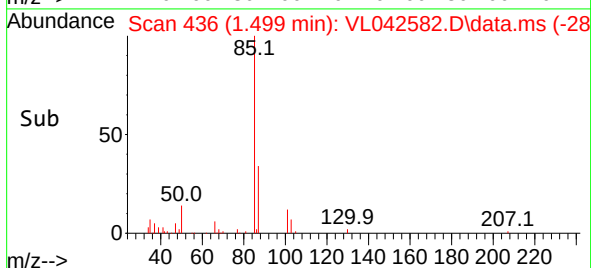
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

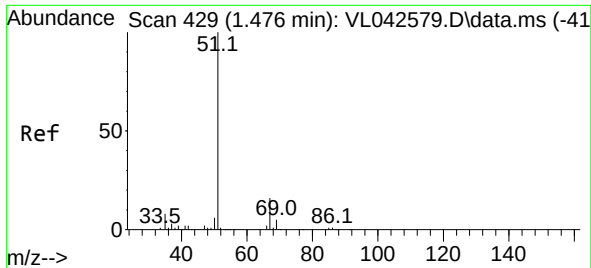


#2
Dichlorodifluoromethane
Concen: 0.512 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47



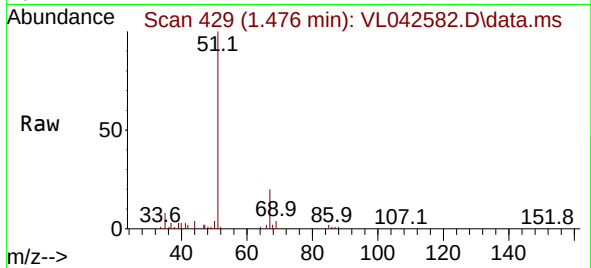
Tgt Ion: 85 Resp: 6470
Ion Ratio Lower Upper
85 100
87 34.1 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.556 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

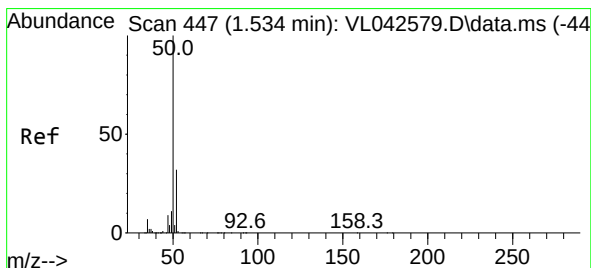
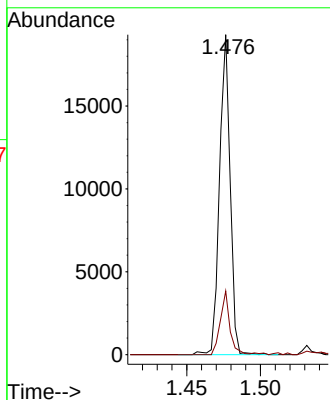
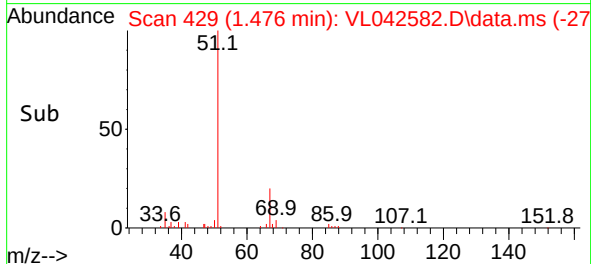
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



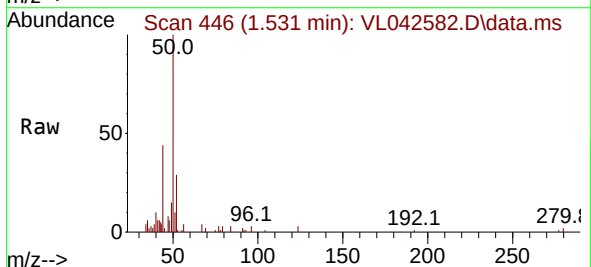
Tgt Ion: 51 Resp: 9678
Ion Ratio Lower Upper
51 100
67 18.4 13.4 20.2

Manual Integrations
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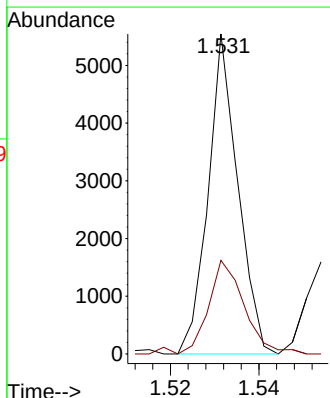
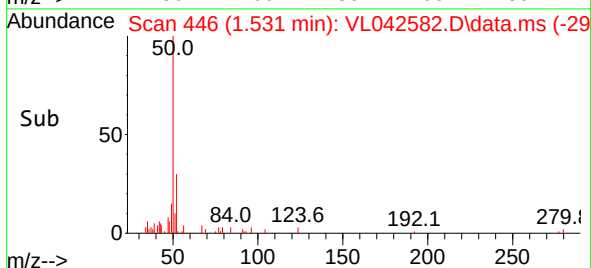
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

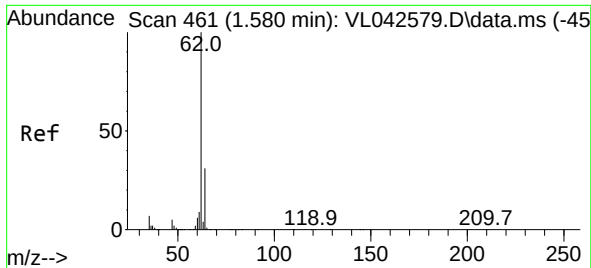


#4
Chloromethane
Concen: 0.516 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47



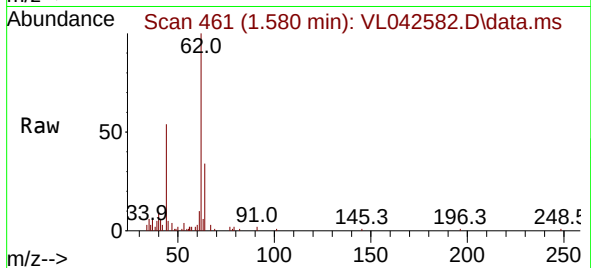
Tgt Ion: 50 Resp: 2584
Ion Ratio Lower Upper
50 100
52 30.5 25.8 38.6





#5
 Vinyl Chloride
 Concen: 0.533 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

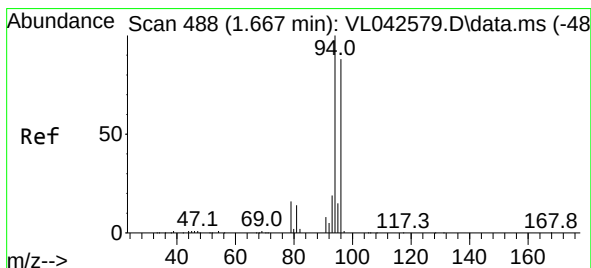
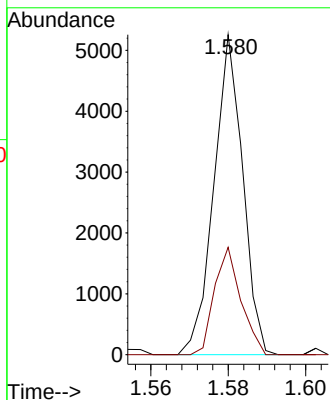
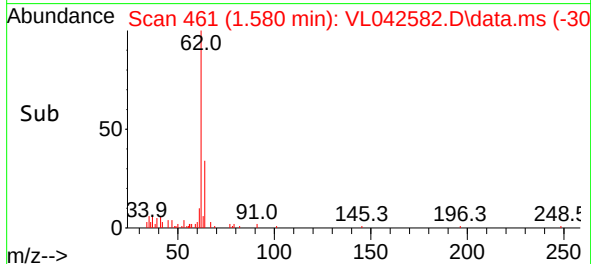
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



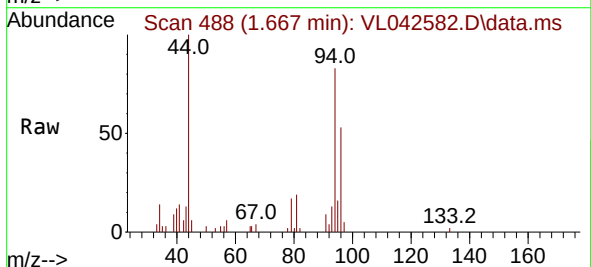
Tgt Ion: 62 Resp: 272
 Ion Ratio Lower Upper
 62 100
 64 33.5 24.9 37.3

Manual Integrations
 APPROVED

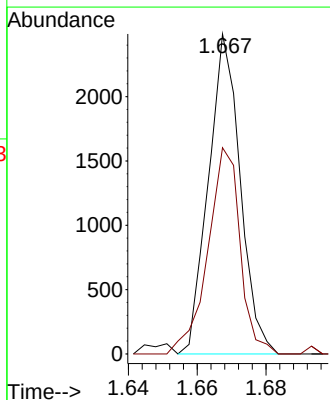
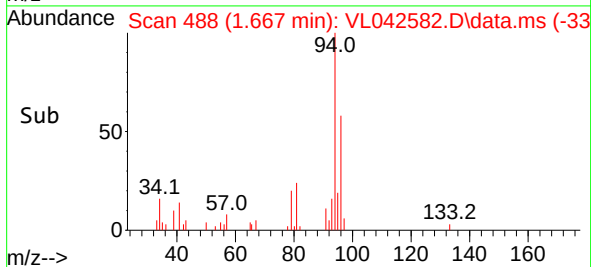
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

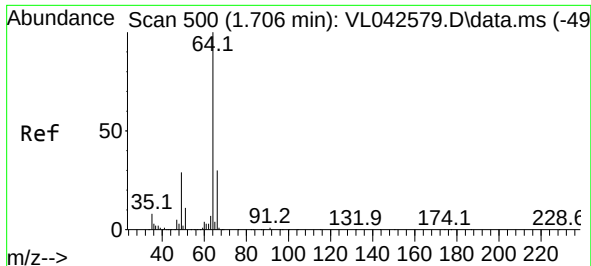


#6
 Bromomethane
 Concen: 0.642 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47



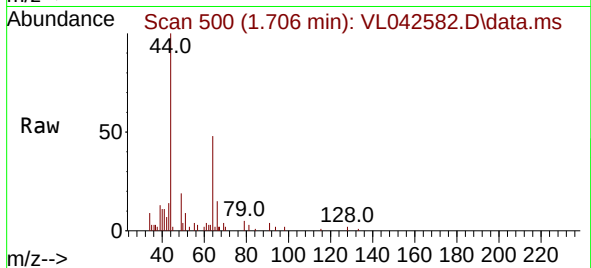
Tgt Ion: 94 Resp: 1594
 Ion Ratio Lower Upper
 94 100
 96 64.5 70.7 106.1#





#7
Chloroethane
Concen: 0.554 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

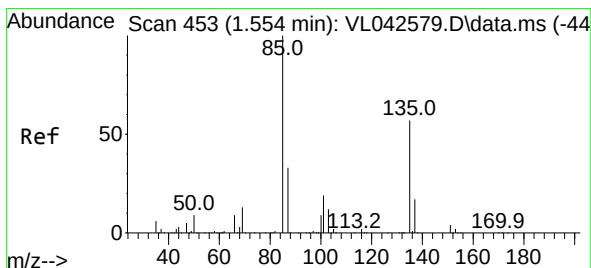
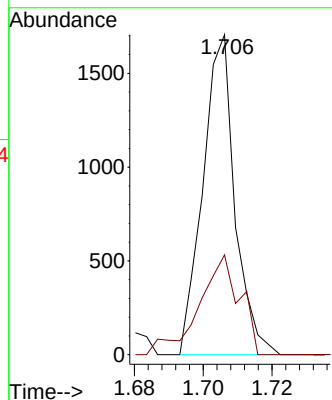
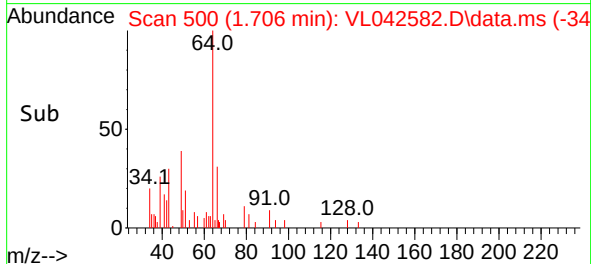
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 64 Resp: 1099
Ion Ratio Lower Upper
64 100
66 35.6 24.3 36.5

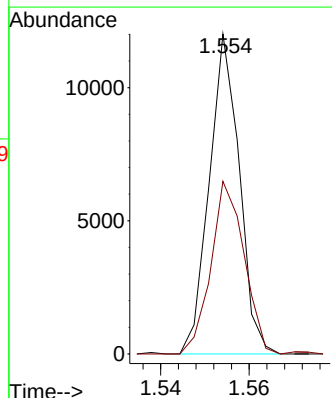
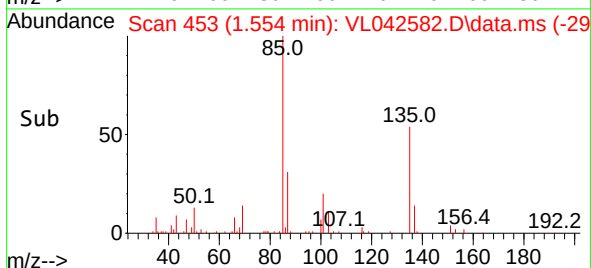
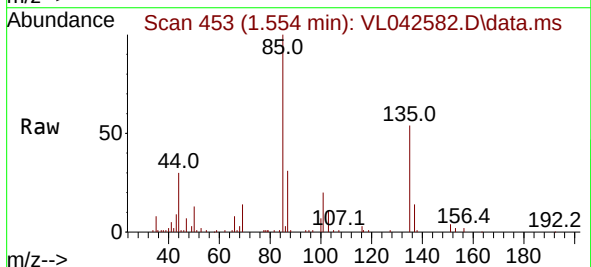
Manual Integrations
APPROVED

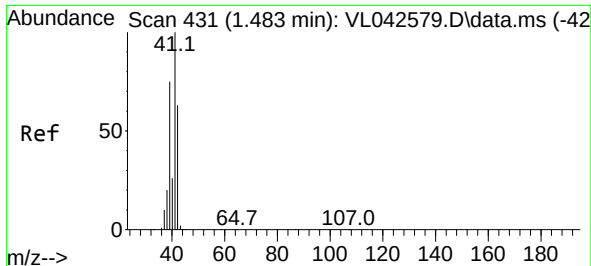
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#8
Dichlorotetrafluoroethane
Concen: 0.537 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 85 Resp: 5655
Ion Ratio Lower Upper
85 100
135 60.7 50.2 75.4





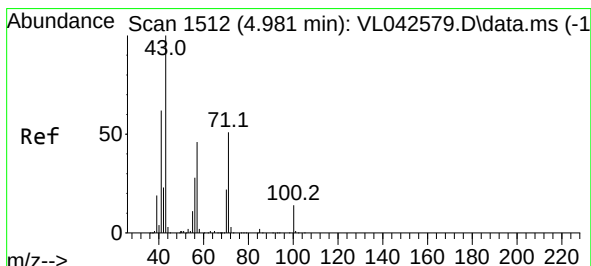
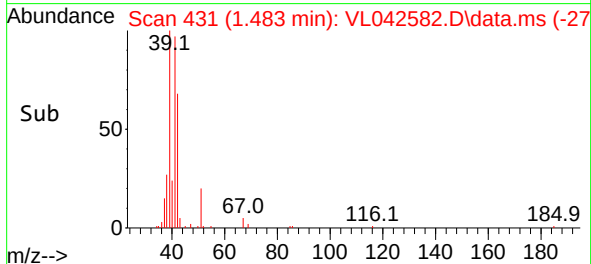
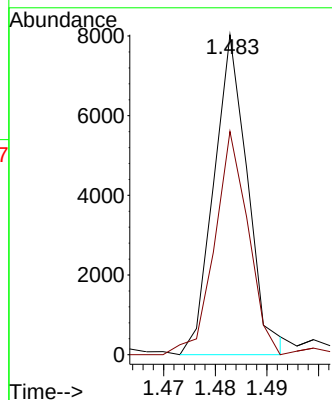
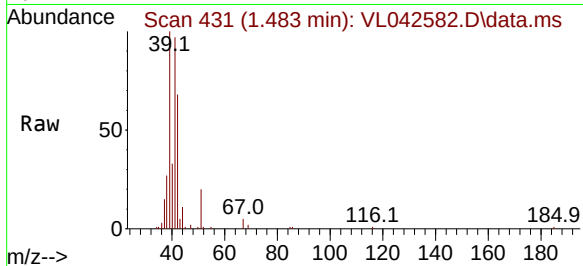
#9
 Propene
 Concen: 0.521 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Tgt Ion: 41 Resp: 365
 Ion Ratio Lower Upper
 41 100
 42 77.1 53.3 79.9

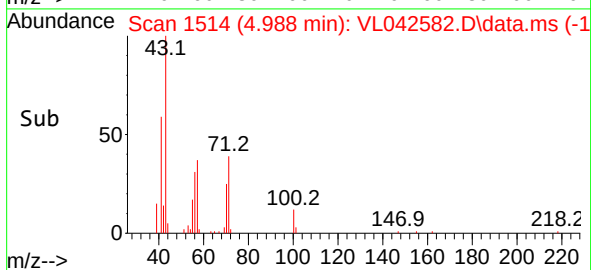
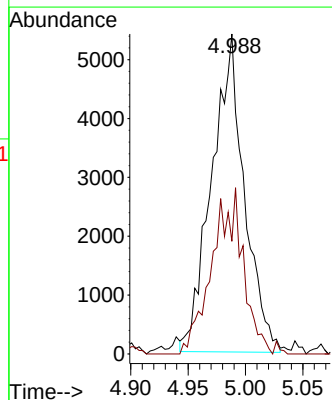
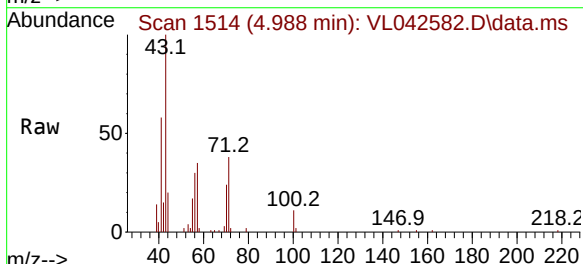
Manual Integrations
 APPROVED

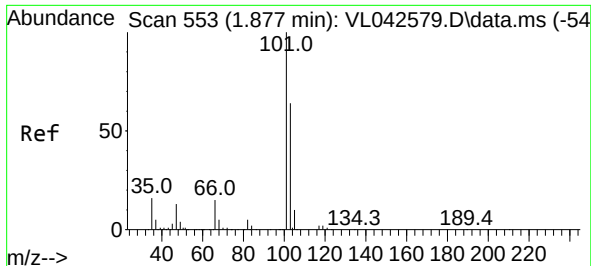
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#10
 Heptane
 Concen: 0.540 ppbv
 RT: 4.988 min Scan# 1514
 Delta R.T. 0.007 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

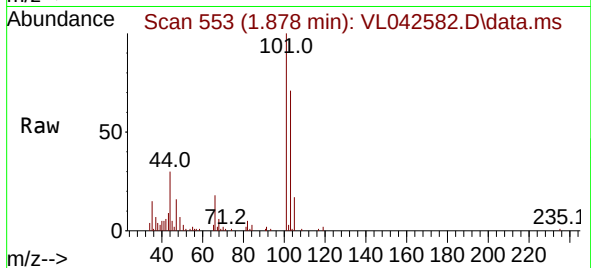
Tgt Ion: 43 Resp: 10697
 Ion Ratio Lower Upper
 43 100
 57 49.9 38.9 58.3





#11
 Trichlorofluoromethane
 Concen: 0.522 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

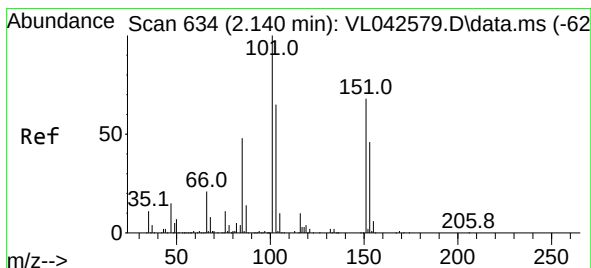
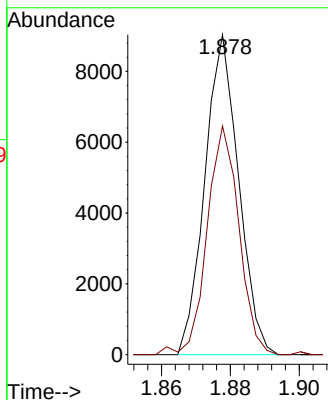
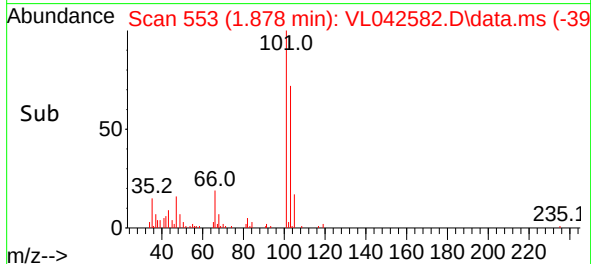
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



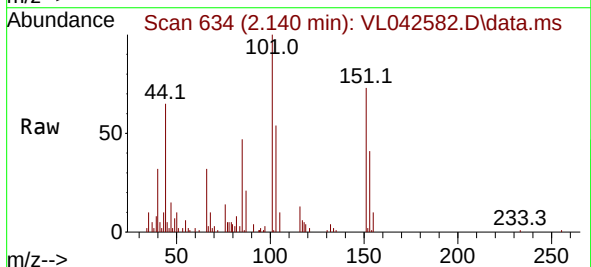
Tgt Ion:101 Resp: 6138
 Ion Ratio Lower Upper
 101 100
 103 71.5 51.5 77.3

Manual Integrations
 APPROVED

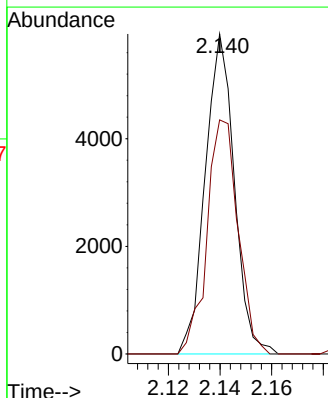
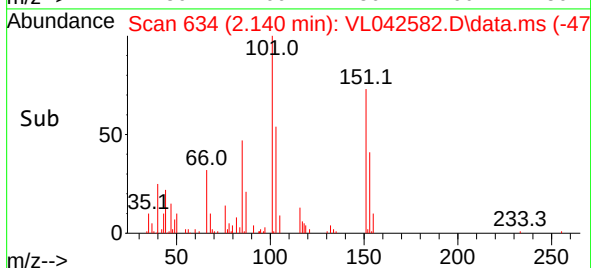
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

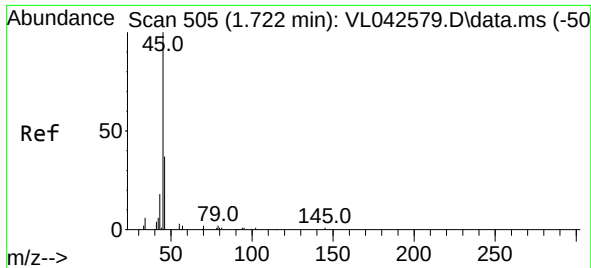


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.503 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.000 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47



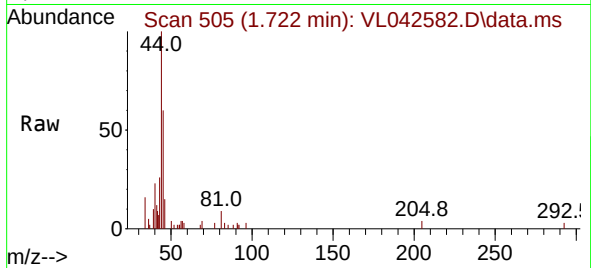
Tgt Ion:101 Resp: 4647
 Ion Ratio Lower Upper
 101 100
 151 78.2 55.3 82.9





#13
Ethanol
Concen: 0.748 ppbv m
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

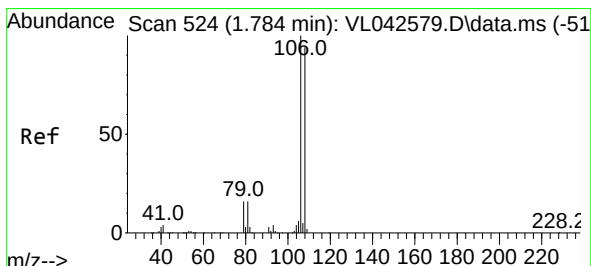
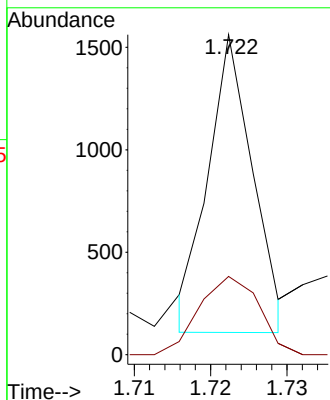
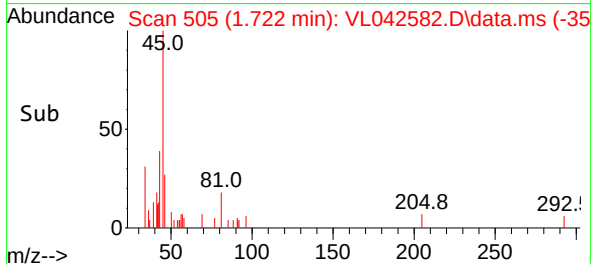
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



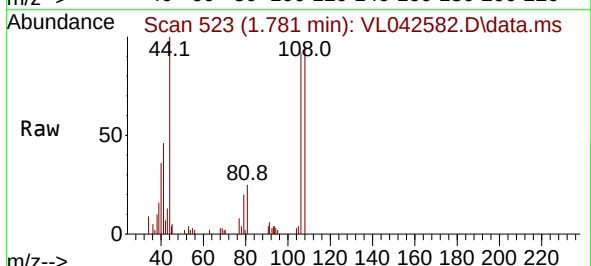
Tgt Ion: 45 Resp: 580
Ion Ratio Lower Upper
45 100
46 45.6 14.5 58.1

Manual Integrations
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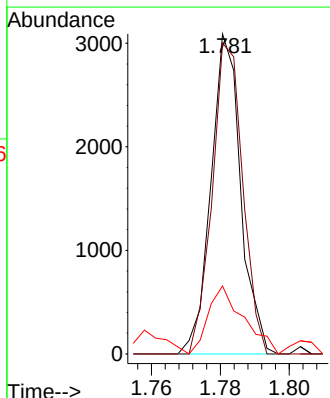
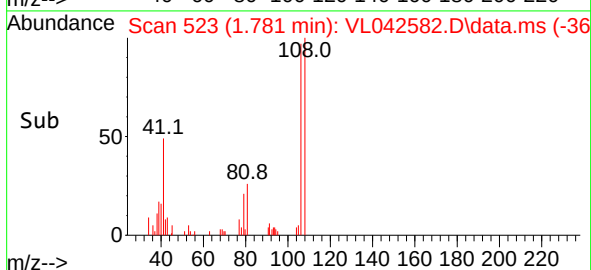
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

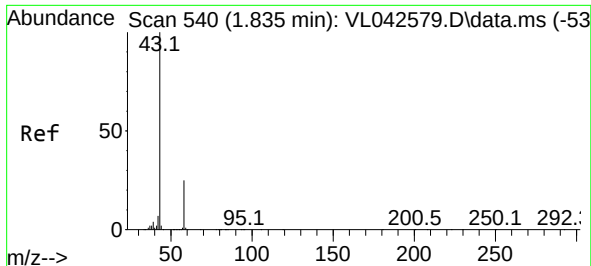


#14
Bromoethene
Concen: 0.532 ppbv
RT: 1.781 min Scan# 523
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47



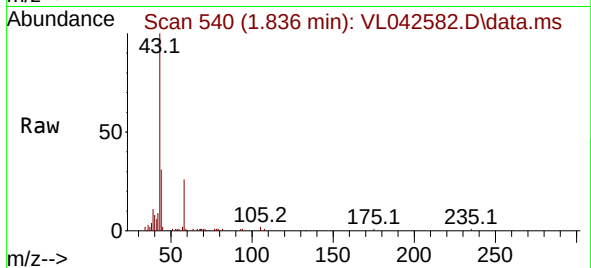
Tgt Ion:108 Resp: 1849
Ion Ratio Lower Upper
108 100
106 99.9 87.9 131.9
79 44.5 15.6 23.4#





#15
Acetone
Concen: 0.583 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

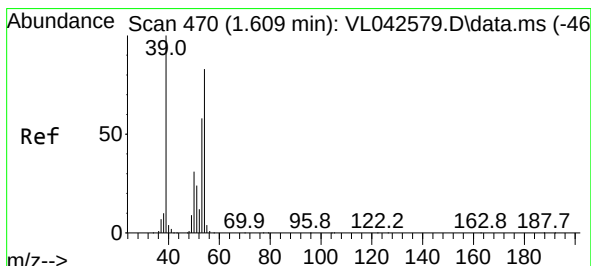
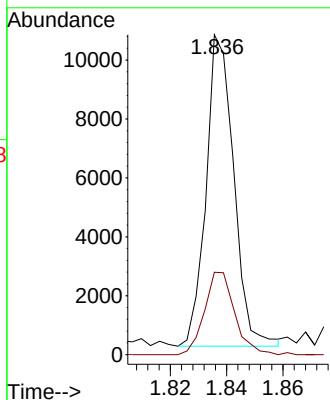
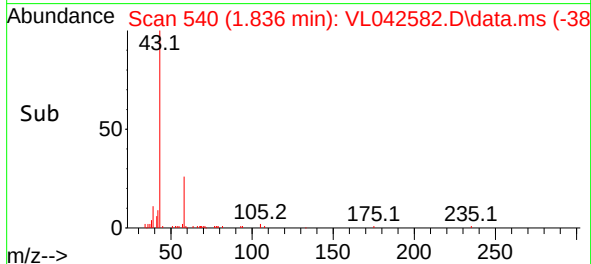
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 43 Resp: 7225
Ion Ratio Lower Upper
43 100
58 29.0 21.0 31.4

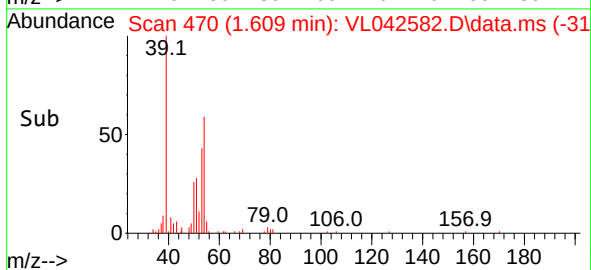
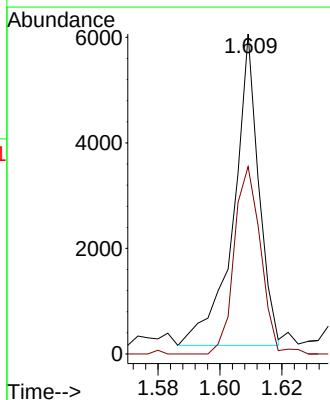
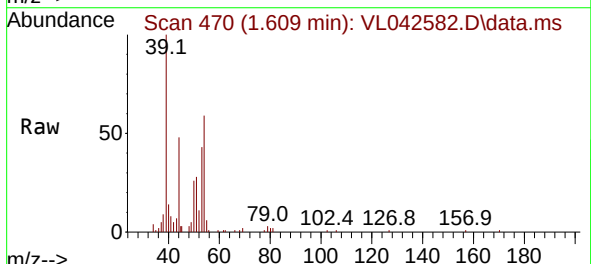
Manual Integrations
APPROVED

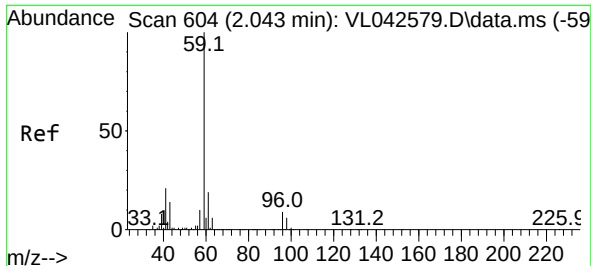
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#16
1,3-Butadiene
Concen: 0.569 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 39 Resp: 3340
Ion Ratio Lower Upper
39 100
54 63.2 57.9 86.9





#17

tert-Butyl alcohol

Concen: 0.533 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

Tgt Ion: 59 Resp: 687

Ion Ratio Lower Upper

59 100

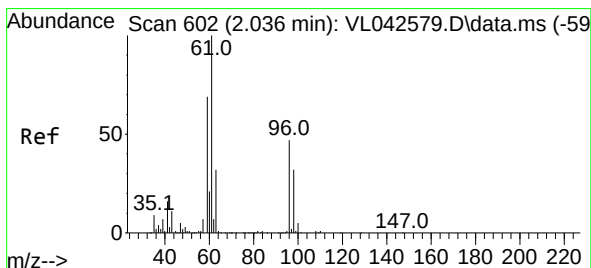
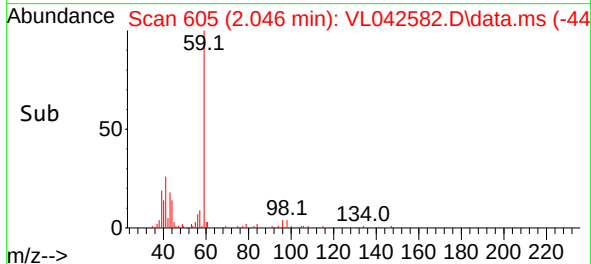
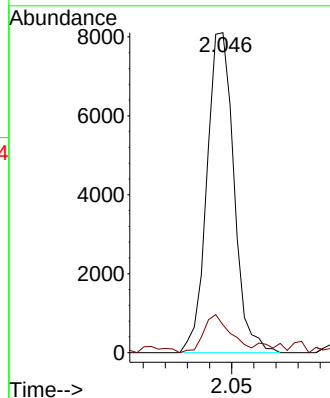
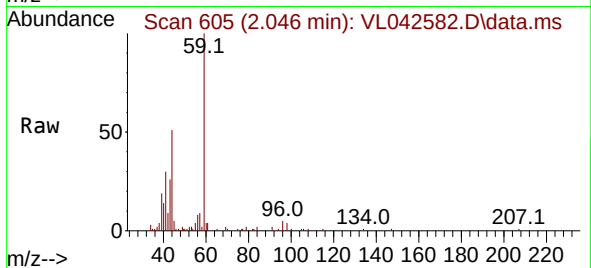
57 13.6 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#18

1,1-Dichloroethene

Concen: 0.539 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

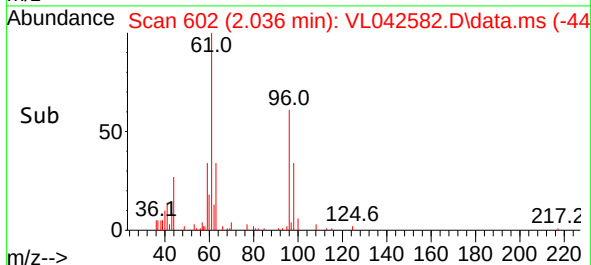
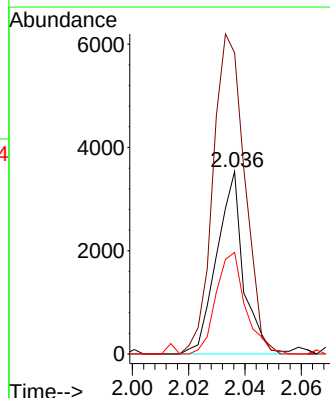
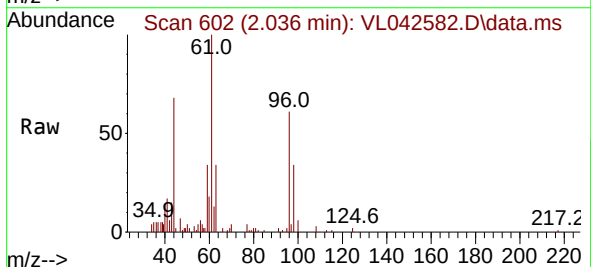
Tgt Ion: 96 Resp: 2319

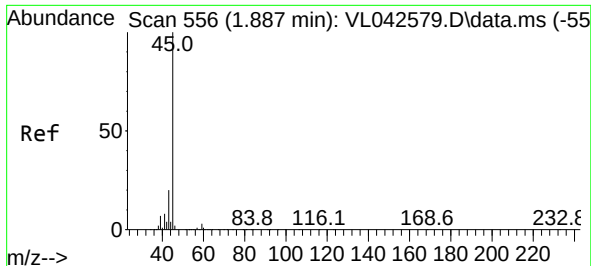
Ion Ratio Lower Upper

96 100

61 165.1 171.1 256.7#

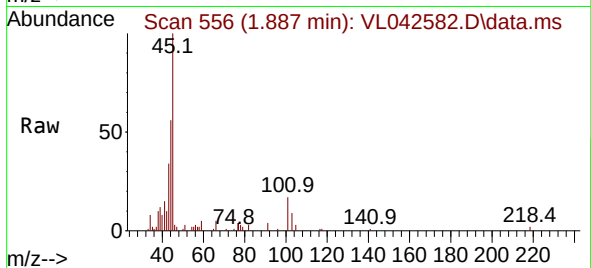
98 55.7 54.4 81.6





#19
Isopropyl Alcohol
Concen: 0.573 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

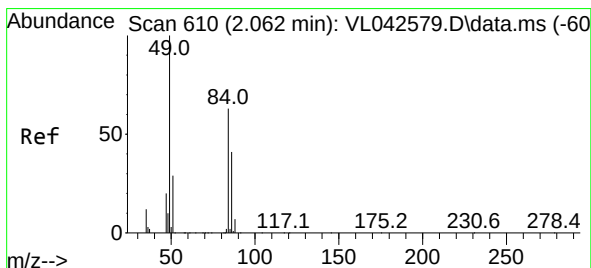
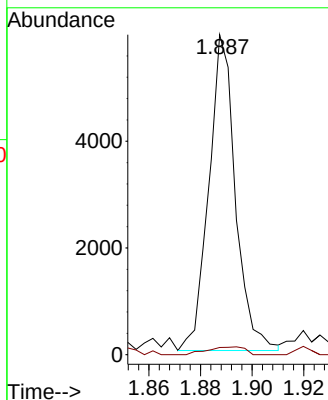
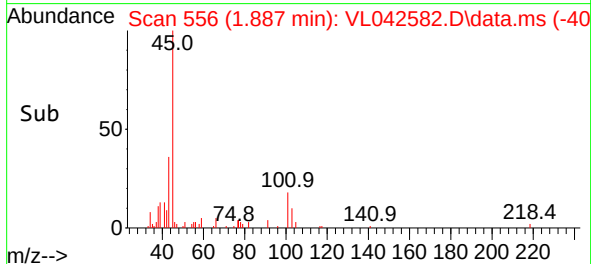
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



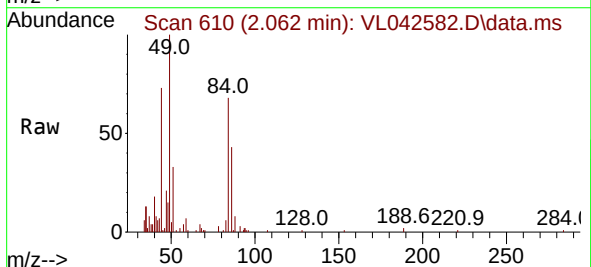
Tgt Ion: 45 Resp: 4245
Ion Ratio Lower Upper
45 100
58 3.4 29.4 44.2

Manual Integrations
APPROVED

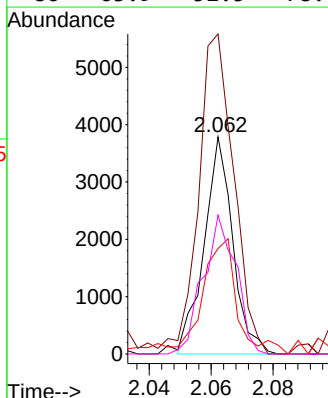
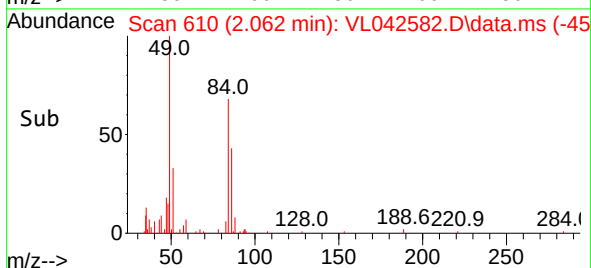
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

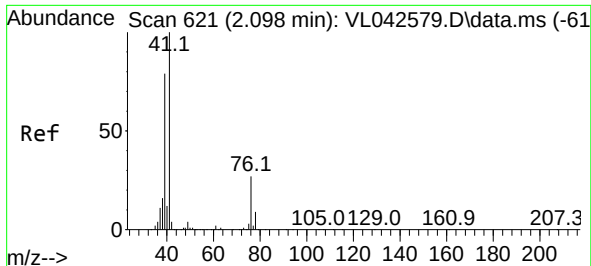


#20
Methylene Chloride
Concen: 0.595 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47



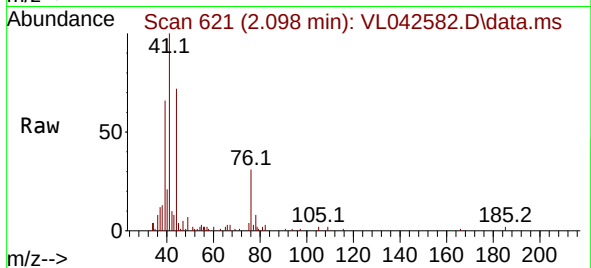
Tgt Ion: 84 Resp: 2435
Ion Ratio Lower Upper
84 100
49 147.4 128.8 193.2
51 45.2 38.6 57.8
86 63.9 52.5 78.7





#21
 Allyl Chloride
 Concen: 0.544 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

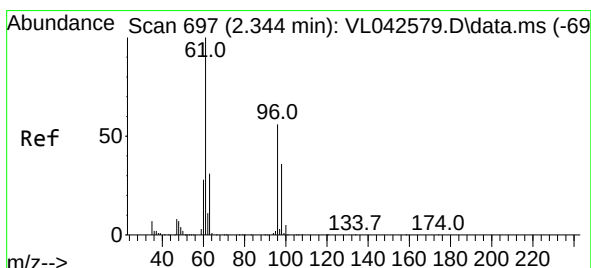
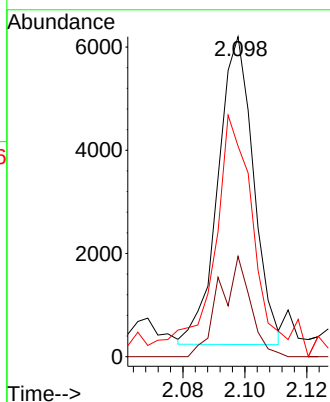
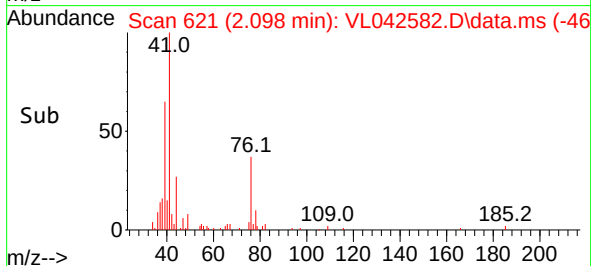
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion: 41 Resp: 4754
 Ion Ratio Lower Upper
 41 100
 76 28.5 21.2 31.8
 39 79.5 60.9 91.3

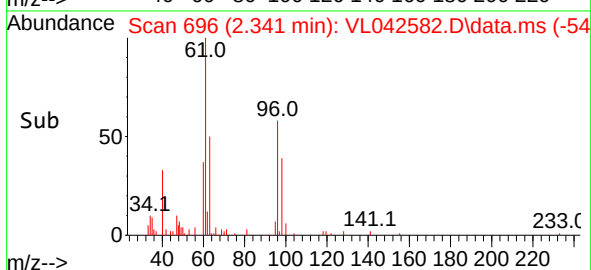
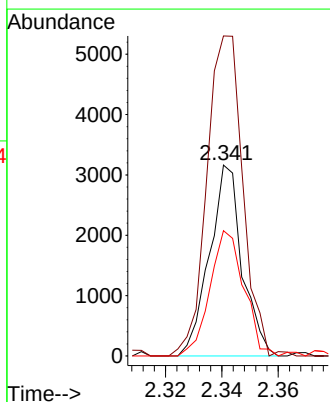
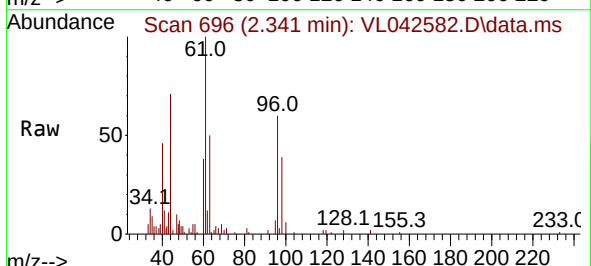
Manual Integrations
 APPROVED

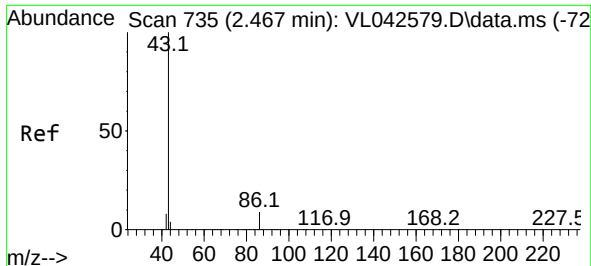
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#22
 trans-1,2-Dichloroethene
 Concen: 0.532 ppbv
 RT: 2.341 min Scan# 696
 Delta R.T. -0.003 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

Tgt Ion: 96 Resp: 2553
 Ion Ratio Lower Upper
 96 100
 61 165.3 142.6 214.0
 98 65.6 51.0 76.4





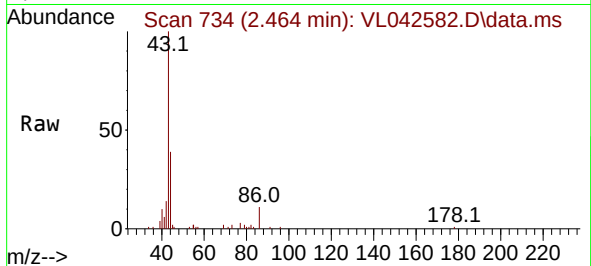
#23
 Vinyl Acetate
 Concen: 0.537 ppbv
 RT: 2.464 min Scan# 717
 Delta R.T. -0.003 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

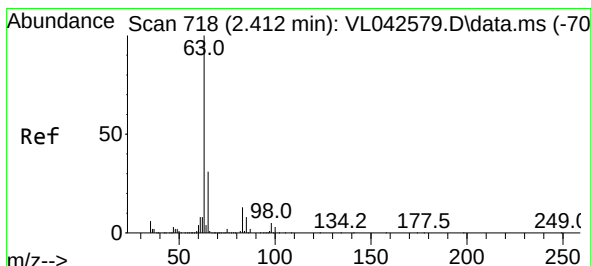
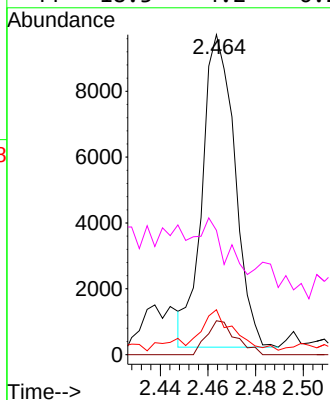
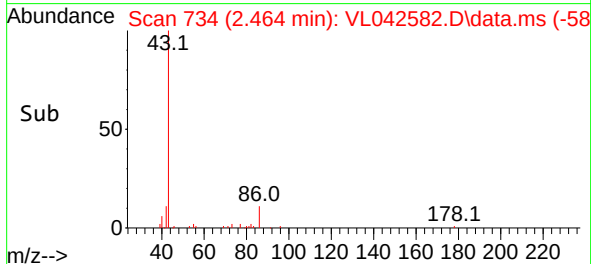


Tgt Ion	Ratio	Lower	Upper
43	100		
86	10.9	6.6	9.8
42	10.6	7.0	10.4
44	18.3	4.2	6.2

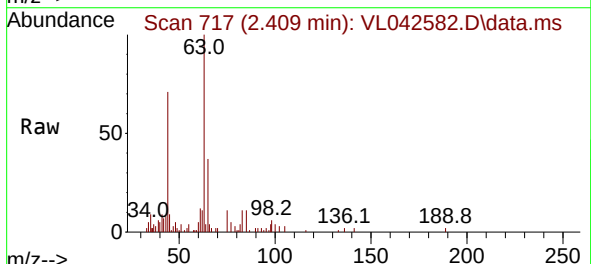
Manual Integrations

APPROVED

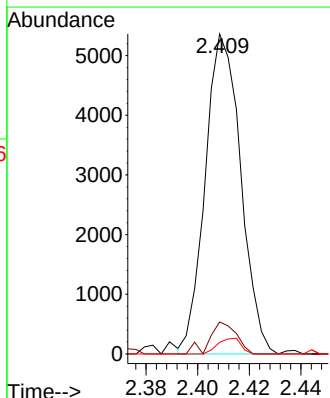
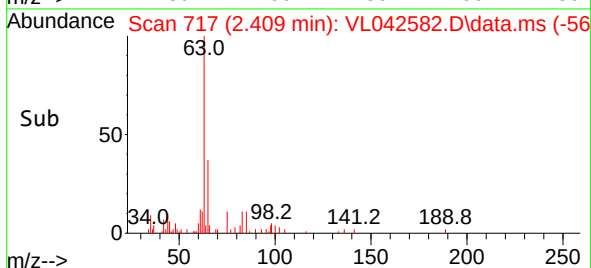
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

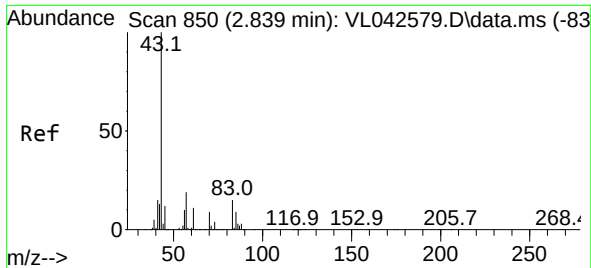


#24
 1,1-Dichloroethane
 Concen: 0.521 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. -0.003 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47



Tgt Ion	Ratio	Lower	Upper
63	100		
98	10.0	2.4	7.1
100	3.7	1.4	4.0





#25

Ethyl Acetate

Concen: 0.530 ppbv

RT: 2.842 min Scan# 851

Delta R.T. 0.003 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

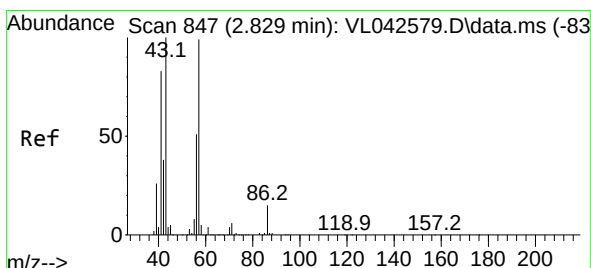
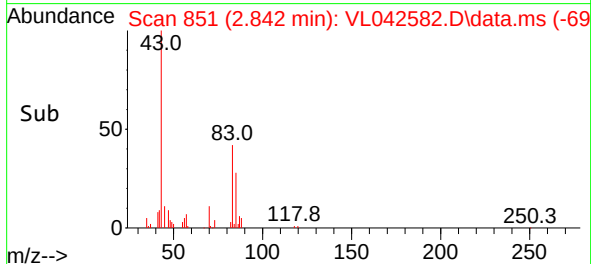
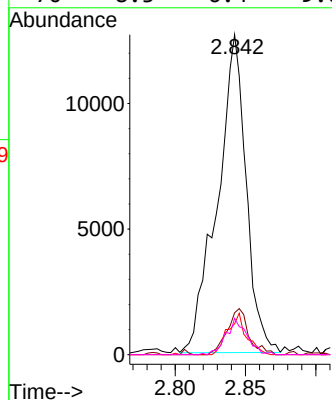
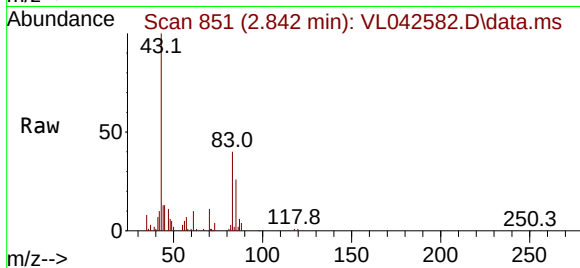
Tgt Ion: 43	Resp: 17990
Ion Ratio	Lower Upper
43 100	
45 11.4	8.2 12.2
61 8.5	7.1 10.7
70 8.3	6.4 9.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#26

Hexane

Concen: 0.564 ppbv

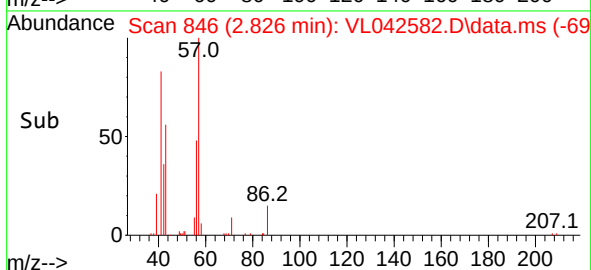
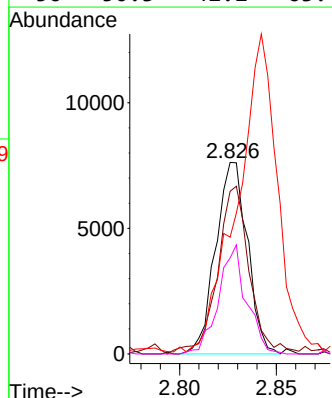
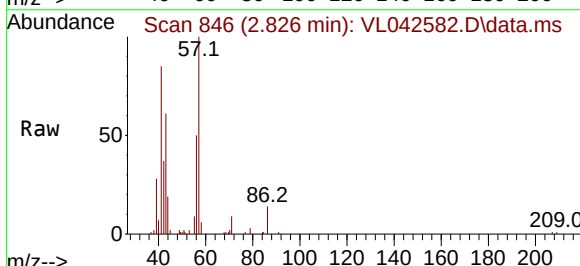
RT: 2.826 min Scan# 846

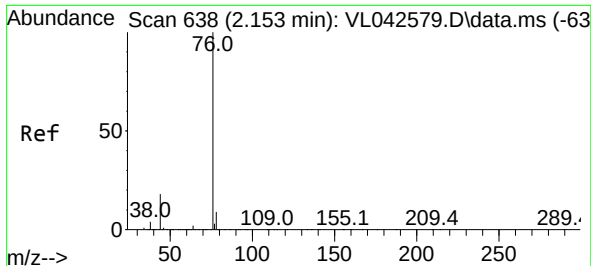
Delta R.T. -0.003 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

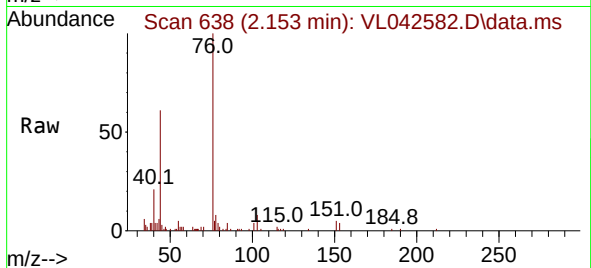
Tgt Ion: 57	Resp: 8694
Ion Ratio	Lower Upper
57 100	
41 89.3	70.6 106.0
43 218.8	181.1 271.7
56 50.3	42.2 63.4





#27
Carbon Disulfide
Concen: 0.511 ppbv
RT: 2.153 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

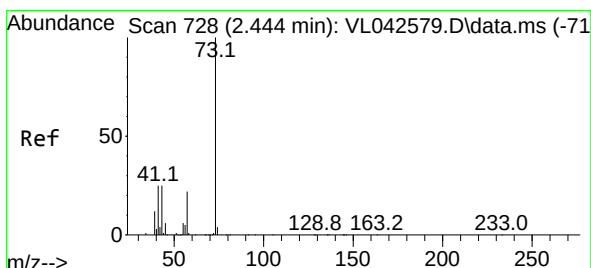
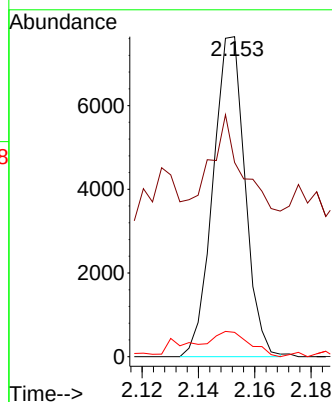
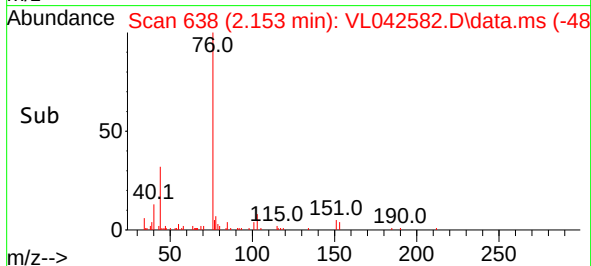
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 76 Resp: 604
Ion Ratio Lower Upper
76 100
44 169.1 21.3 31.9
78 15.4 9.4 14.0

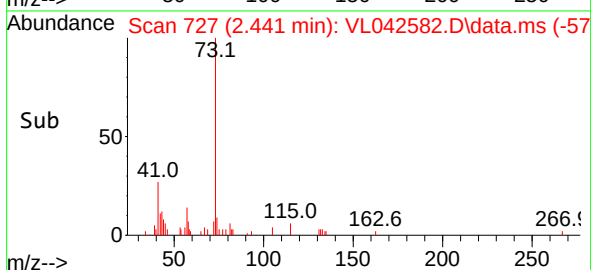
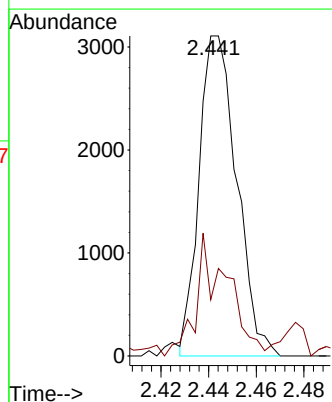
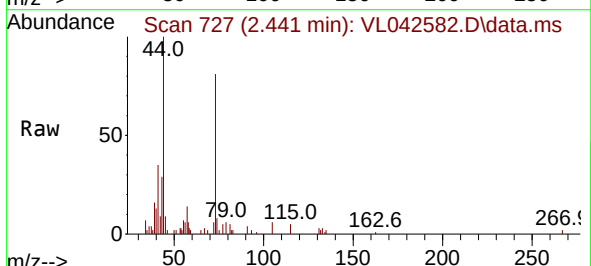
Manual Integrations
APPROVED

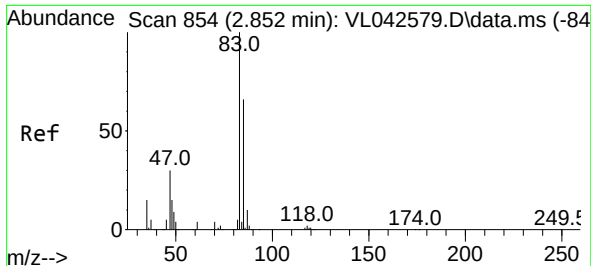
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#28
Methyl tert-Butyl Ether
Concen: 0.546 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 73 Resp: 3416
Ion Ratio Lower Upper
73 100
57 34.3 19.9 29.9





#29

Chloroform

Concen: 0.539 ppbv

RT: 2.849 min Scan# 853

Delta R.T. -0.003 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 83 Resp: 10798

Ion Ratio Lower Upper

83 100

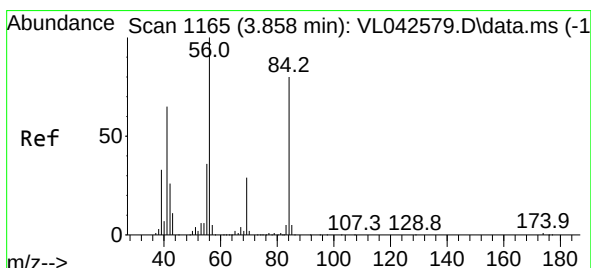
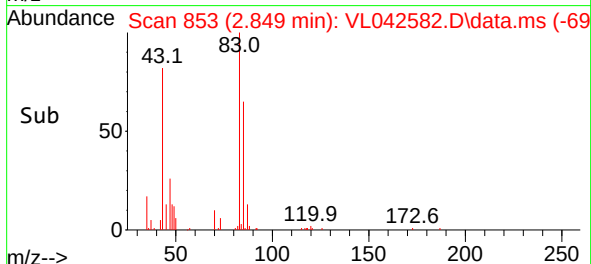
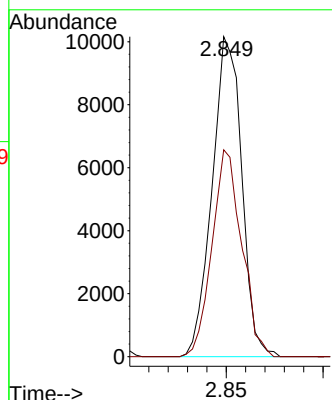
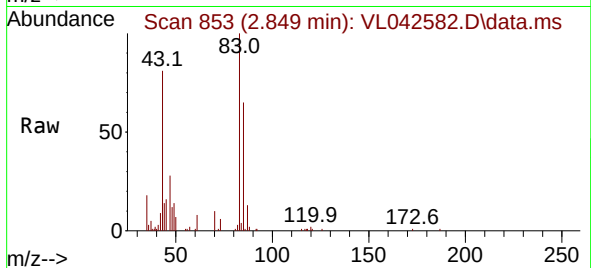
85 64.6 52.8 79.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#30

Cyclohexane

Concen: 0.531 ppbv m

RT: 3.855 min Scan# 1164

Delta R.T. -0.003 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

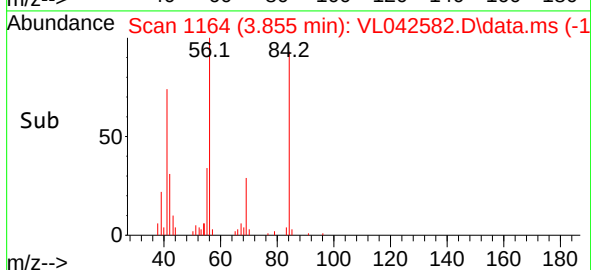
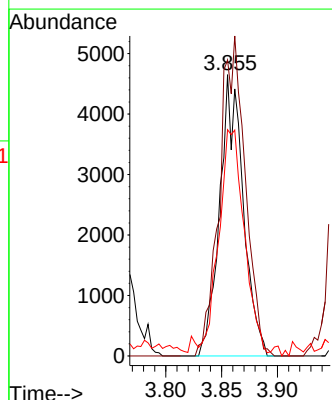
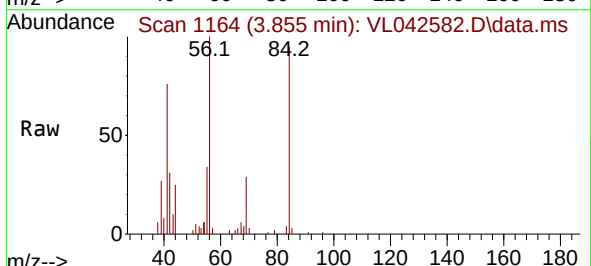
Tgt Ion: 84 Resp: 6784

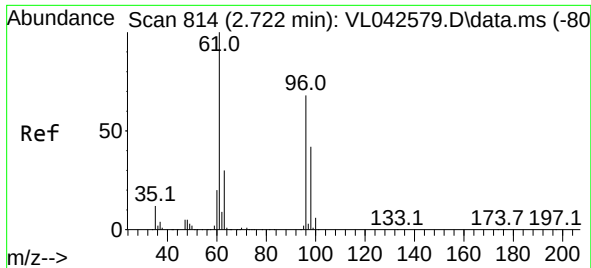
Ion Ratio Lower Upper

84 100

56 124.9 103.7 155.5

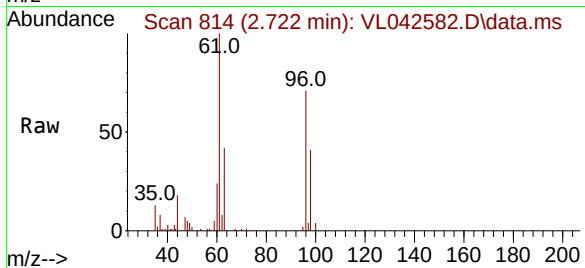
41 0.0 65.1 97.7#





#31
 cis-1,2-Dichloroethene
 Concen: 0.518 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

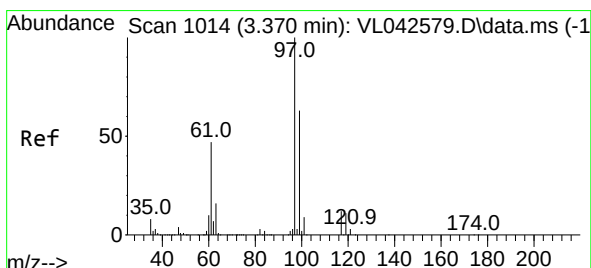
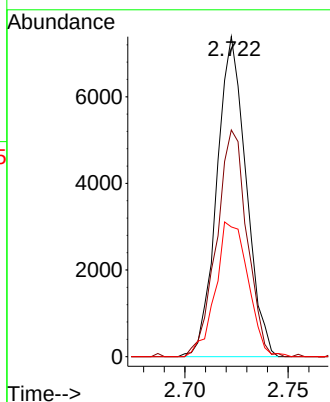
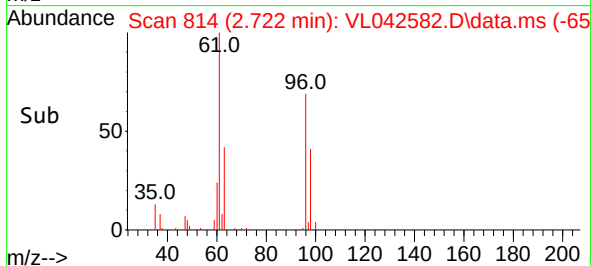
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



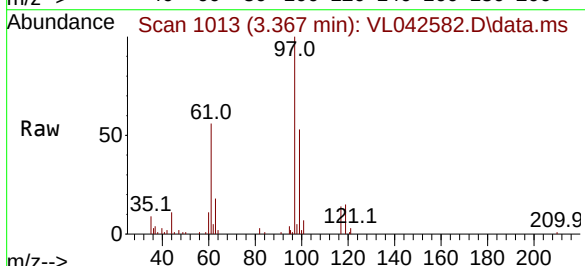
Tgt Ion: 61 Resp: 7302
 Ion Ratio Lower Upper
 61 100
 96 70.9 54.5 81.7
 98 40.5 33.4 50.2

Manual Integrations
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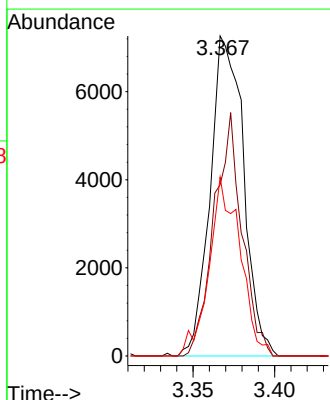
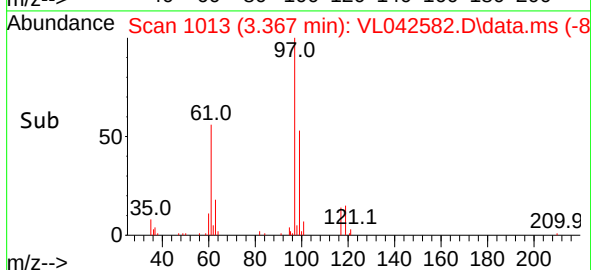
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

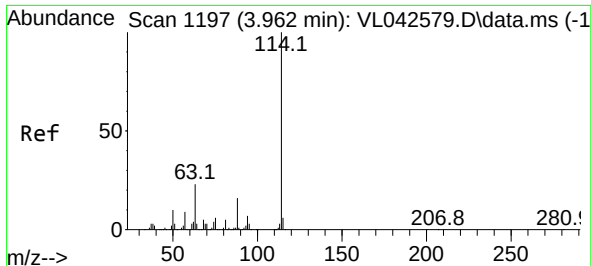


#32
 1,1,1-Trichloroethane
 Concen: 0.513 ppbv
 RT: 3.367 min Scan# 1013
 Delta R.T. -0.003 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47



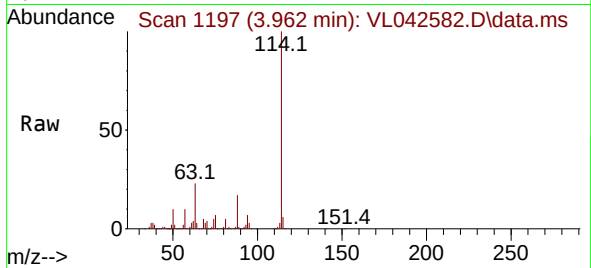
Tgt Ion: 97 Resp: 10309
 Ion Ratio Lower Upper
 97 100
 99 63.9 51.0 76.6
 61 52.1 39.4 59.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

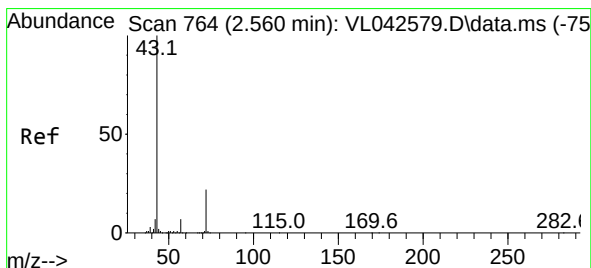
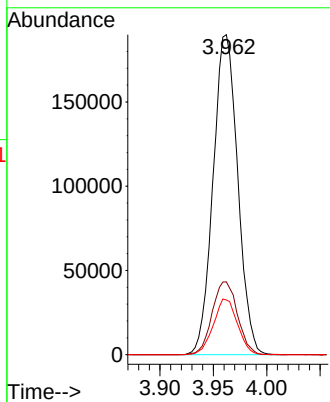
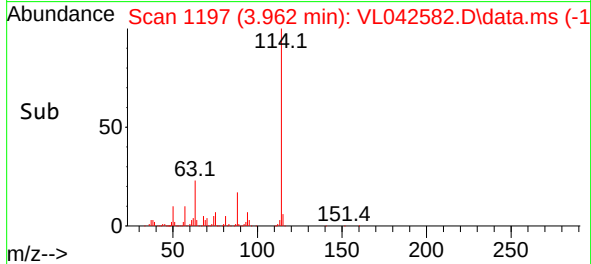
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



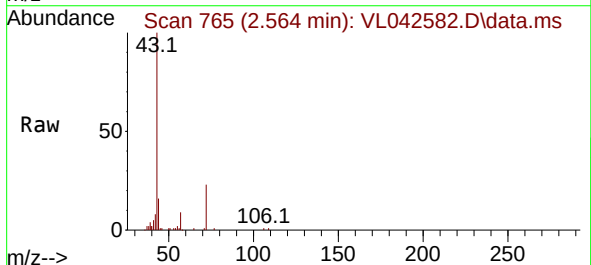
Tgt Ion:114 Resp: 30461
Ion Ratio Lower Upper
114 100
63 23.4 19.0 28.6
88 17.1 13.6 20.4

Manual Integrations
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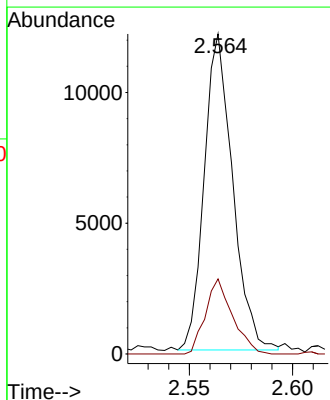
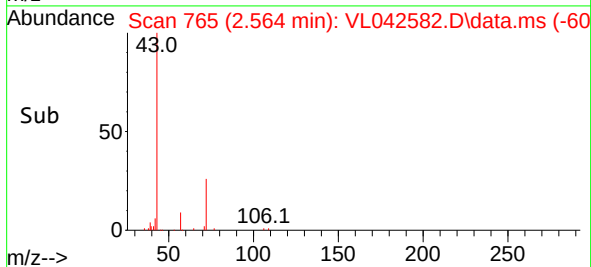
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

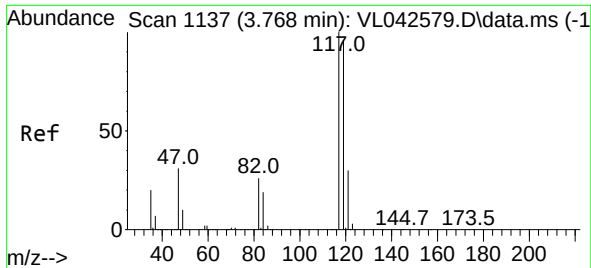


#34
2-Butanone
Concen: 0.533 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47



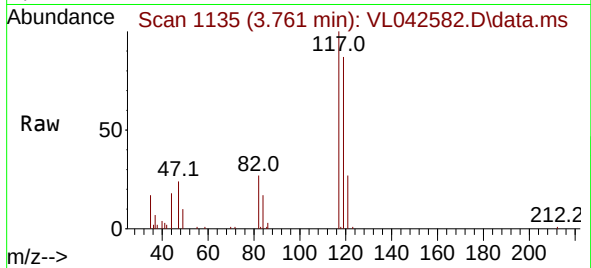
Tgt Ion: 43 Resp: 11569
Ion Ratio Lower Upper
43 100
72 22.5 17.7 26.5





#35
Carbon Tetrachloride
Concen: 0.503 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.006 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

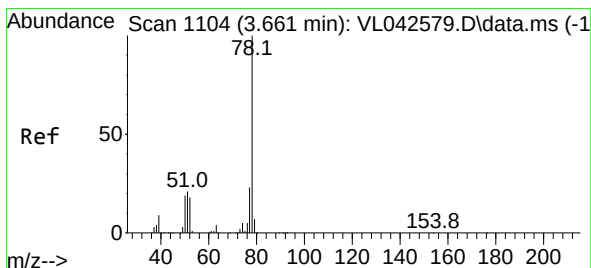
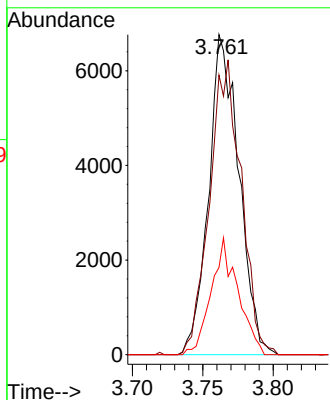
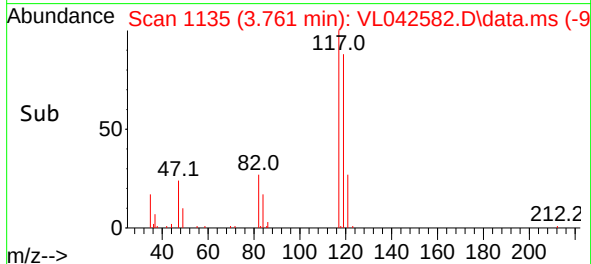
Instrument : MSVOA_L
ClientSampleId : VSTDIC0.5



Tgt Ion: 117 Resp: 10120
Ion Ratio Lower Upper
117 100
119 87.4 76.8 115.2
121 27.2 24.3 36.5

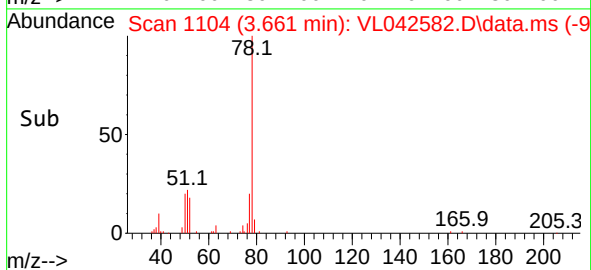
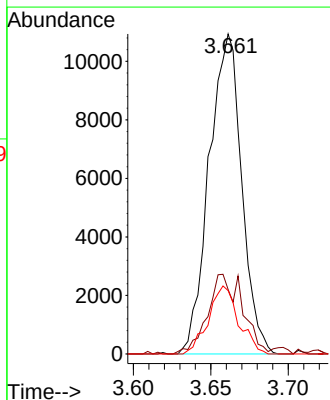
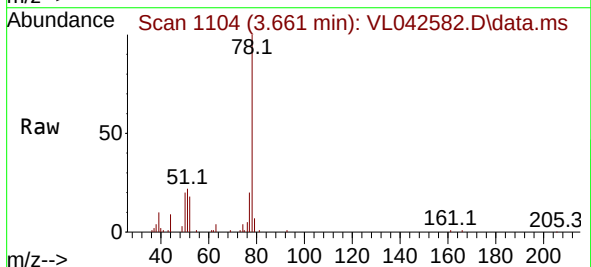
Manual Integrations
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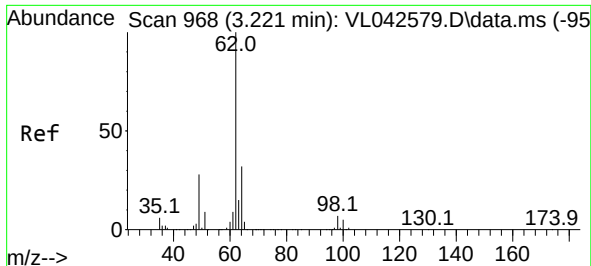
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#36
Benzene
Concen: 0.533 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

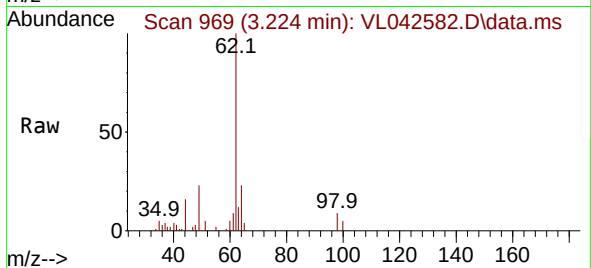
Tgt Ion: 78 Resp: 16000
Ion Ratio Lower Upper
78 100
77 19.4 18.2 27.2
50 19.8 15.2 22.8





#37
1,2-Dichloroethane
Concen: 0.529 ppbv
RT: 3.224 min Scan# 90
Delta R.T. 0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

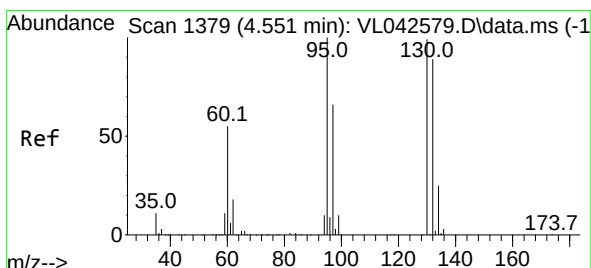
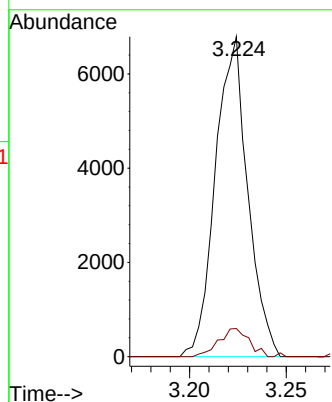
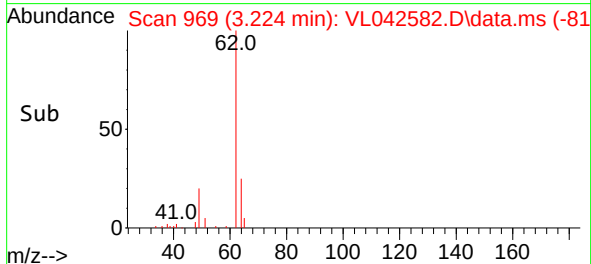
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 62 Resp: 788
Ion Ratio Lower Upper
62 100
98 8.4 6.1 9.1

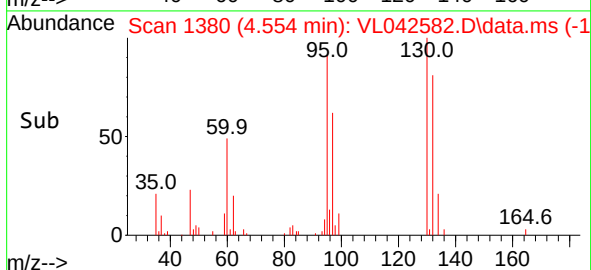
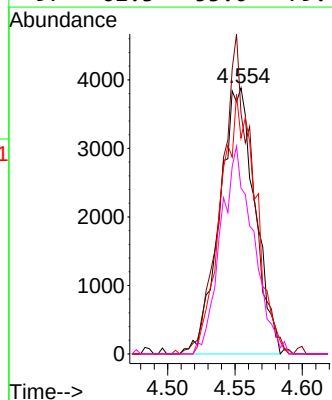
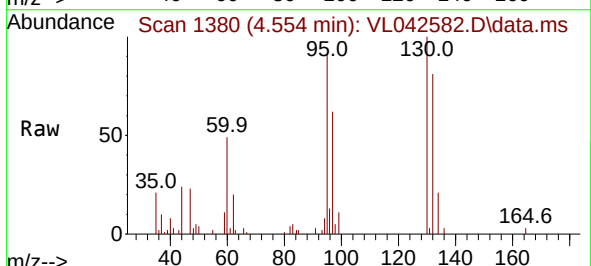
Manual Integrations
APPROVED

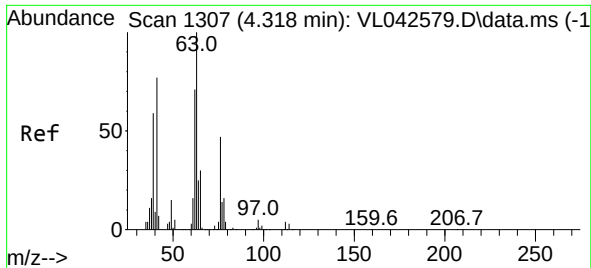
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#38
Trichloroethene
Concen: 0.555 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. 0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

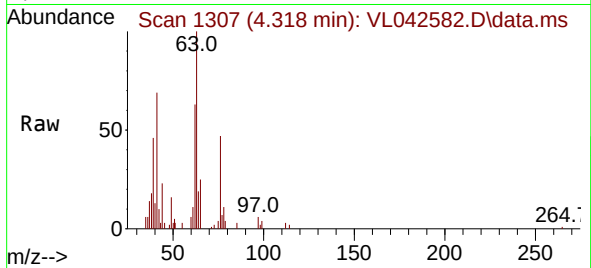
Tgt Ion:130 Resp: 7126
Ion Ratio Lower Upper
130 100
95 90.6 80.6 121.0
132 81.1 71.8 107.6
97 62.3 53.0 79.4





#39
 1,2-Dichloropropane
 Concen: 0.570 ppbv m
 RT: 4.318 min Scan# 1307
 Delta R.T. 0.000 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

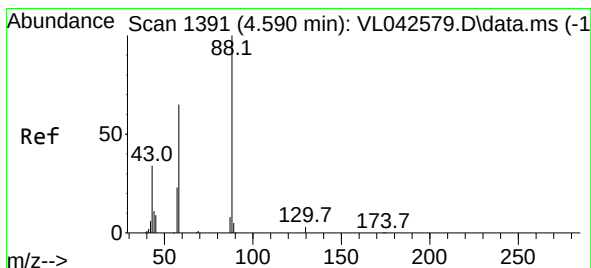
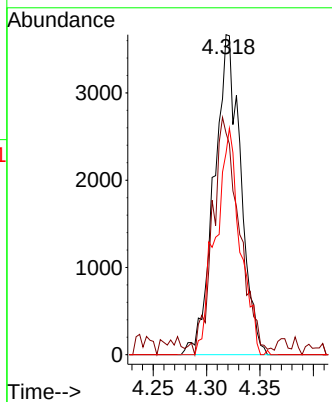
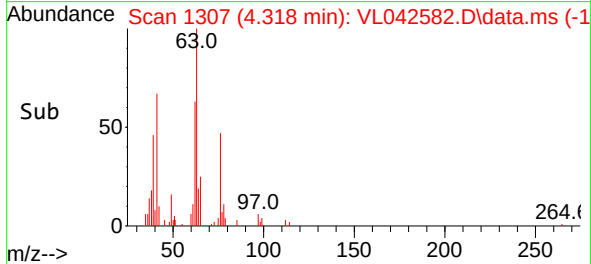
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5



Tgt Ion: 63 Resp: 631
 Ion Ratio Lower Upper
 63 100
 41 69.2 61.8 92.6
 62 63.0 56.6 85.0

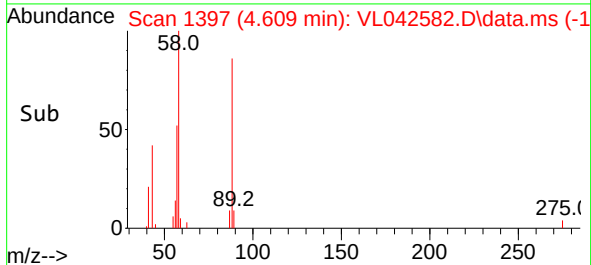
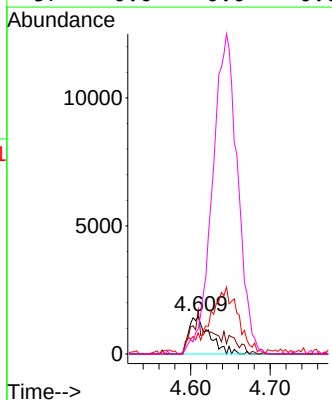
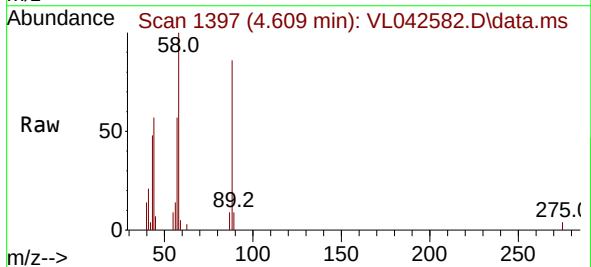
Manual Integrations
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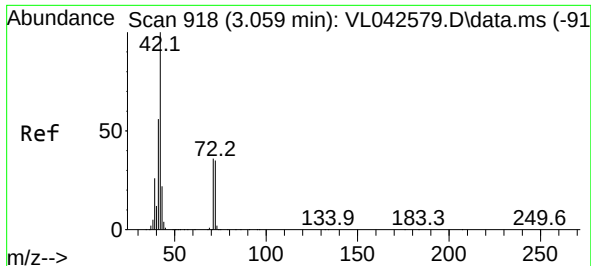
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#40
 1,4-Dioxane
 Concen: 0.555 ppbv m
 RT: 4.609 min Scan# 1397
 Delta R.T. 0.020 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

Tgt Ion: 88 Resp: 2618
 Ion Ratio Lower Upper
 88 100
 58 131.2 55.8 83.8#
 43 15.4 24.8 37.2#
 57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.533 ppbv

RT: 3.066 min Scan# 918

Delta R.T. 0.007 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

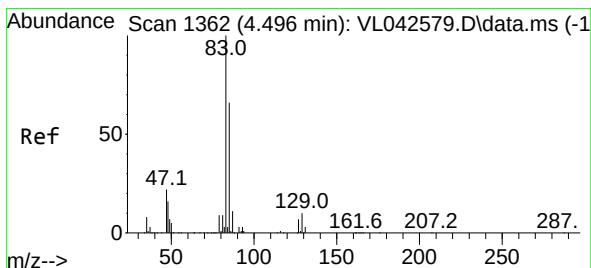
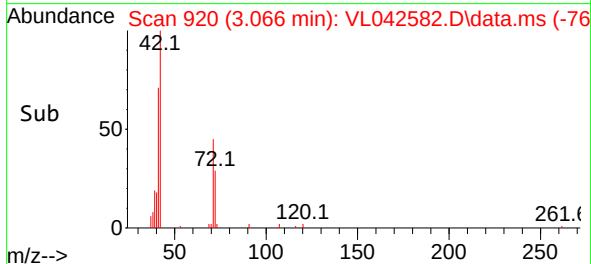
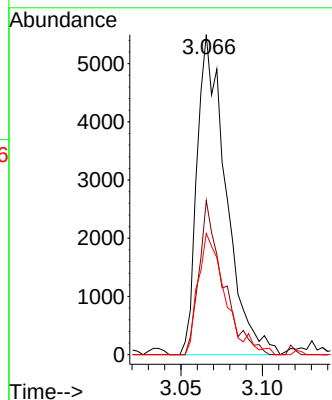
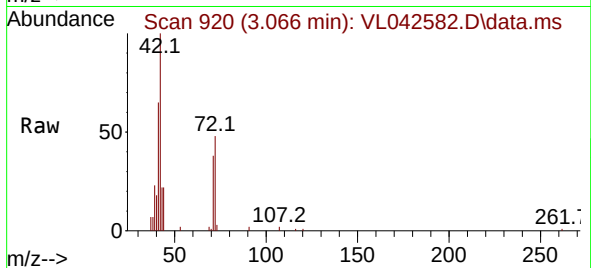
VSTDIC0.5

Tgt Ion:	42	Resp:	6775
Ion	Ratio	Lower	Upper
42	100		
72	40.4	28.9	43.3
71	36.2	28.5	42.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#42

Bromodichloromethane

Concen: 0.505 ppbv

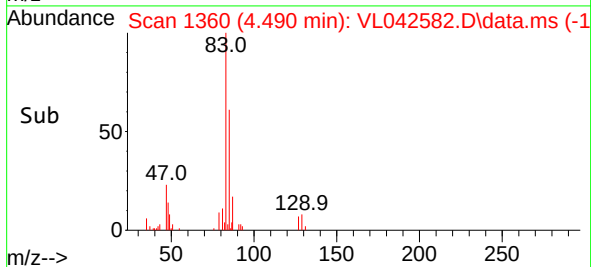
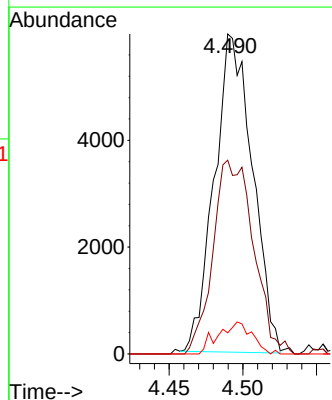
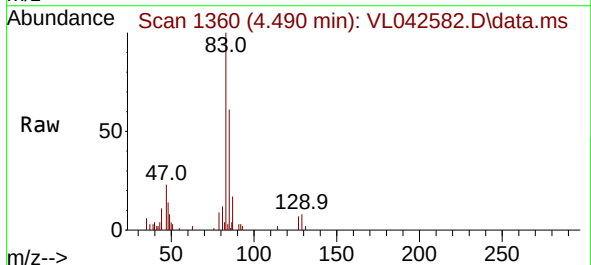
RT: 4.490 min Scan# 1360

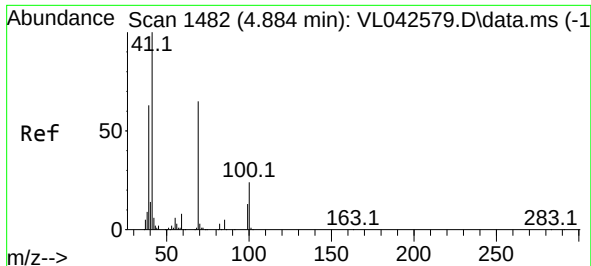
Delta R.T. -0.006 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

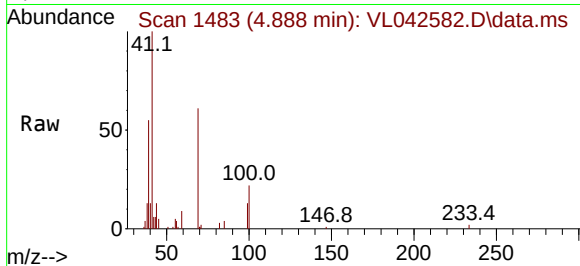
Tgt Ion:	83	Resp:	10688
Ion	Ratio	Lower	Upper
83	100		
85	61.1	52.7	79.1
127	6.6	5.8	8.6





#43
Methyl Methacrylate
Concen: 0.521 ppbv
RT: 4.888 min Scan# 1483
Delta R.T. 0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

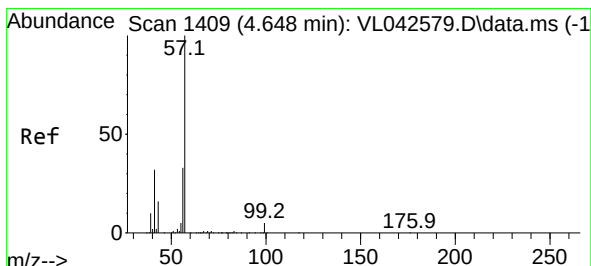
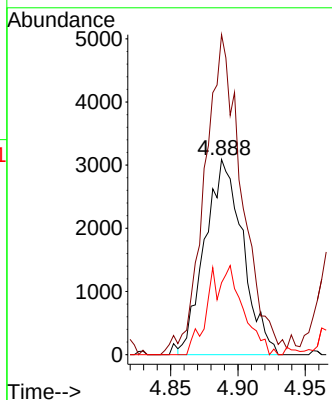
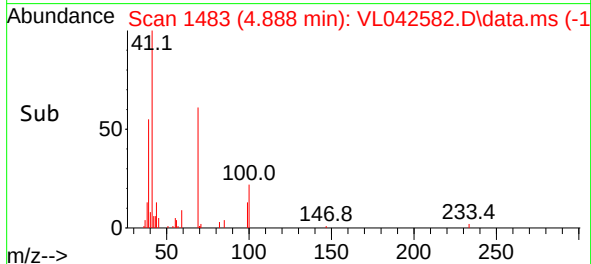
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 69 Resp: 6050
Ion Ratio Lower Upper
69 100
41 160.5 124.6 187.0
100 42.4 29.9 44.9

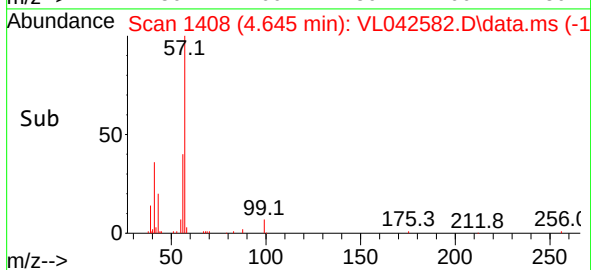
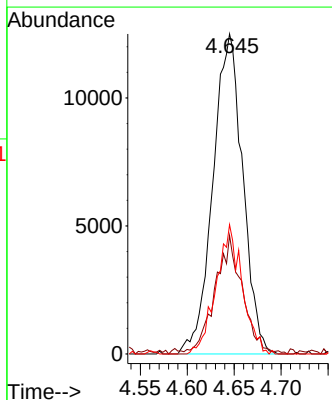
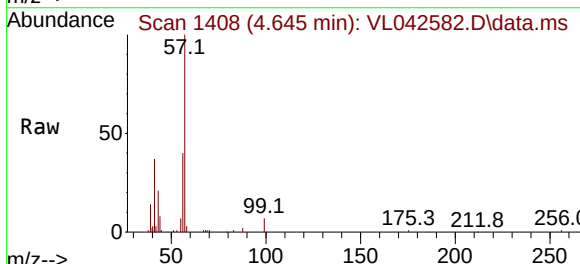
Manual Integrations
APPROVED

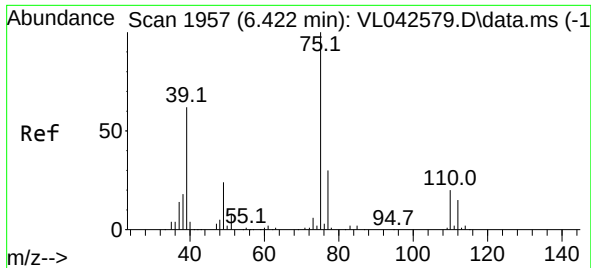
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#44
2,2,4-Trimethylpentane
Concen: 0.538 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

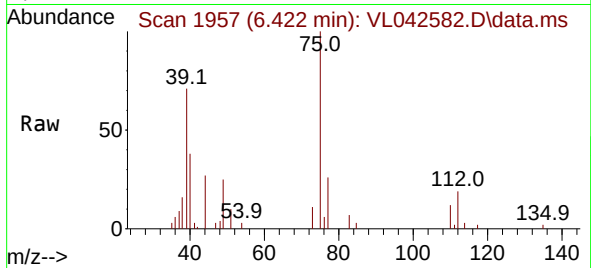
Tgt Ion: 57 Resp: 27584
Ion Ratio Lower Upper
57 100
41 34.8 26.1 39.1
56 35.2 25.9 38.9





#45
 t-1,3-Dichloropropene
 Concen: 0.495 ppbv
 RT: 6.422 min Scan# 1957
 Delta R.T. 0.000 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

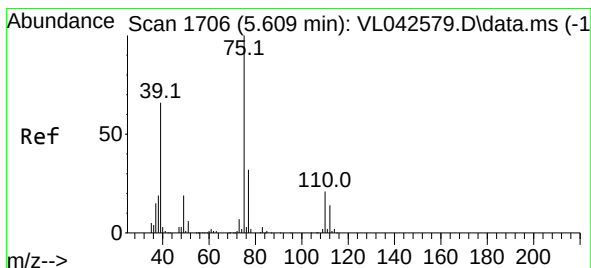
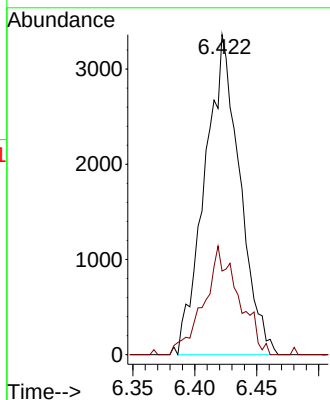
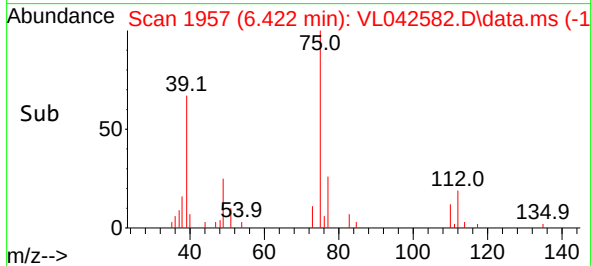
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion: 75 Resp: 6598
 Ion Ratio Lower Upper
 75 100
 77 26.1 24.2 36.2

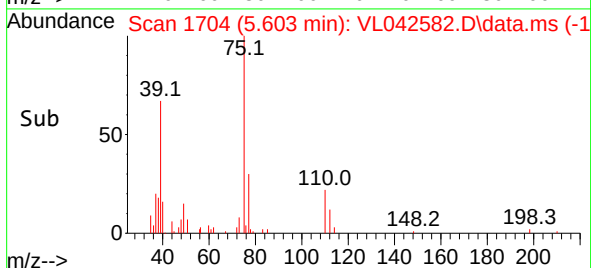
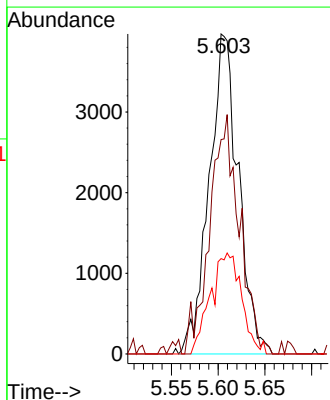
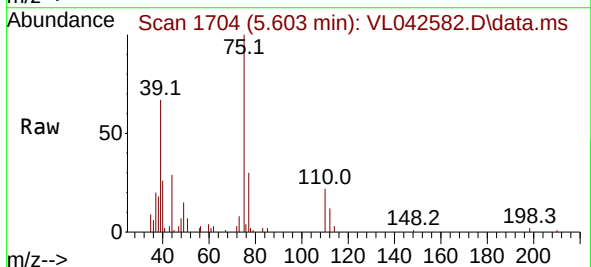
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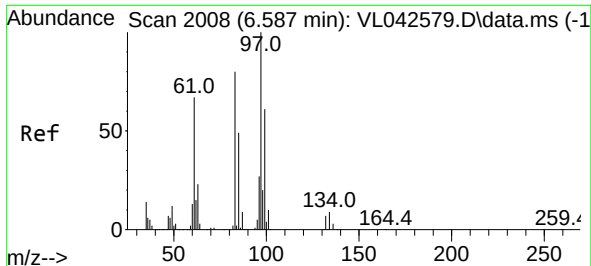
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#46
 cis-1,3-Dichloropropene
 Concen: 0.518 ppbv m
 RT: 5.603 min Scan# 1704
 Delta R.T. -0.006 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

Tgt Ion: 75 Resp: 8637
 Ion Ratio Lower Upper
 75 100
 39 67.0 52.7 79.1
 77 29.8 25.8 38.8





#47

1,1,2-Trichloroethane

Concen: 0.539 ppbv m

RT: 6.584 min Scan# 2008

Delta R.T. -0.003 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

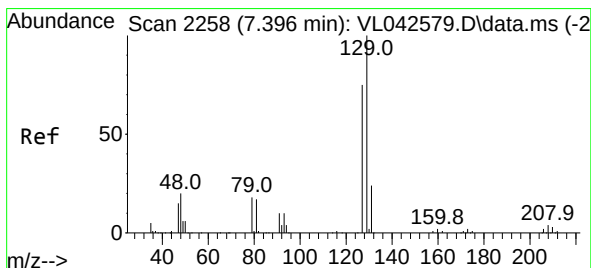
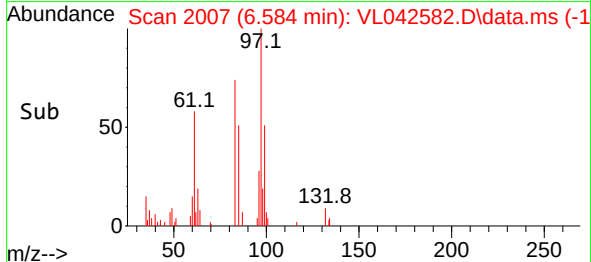
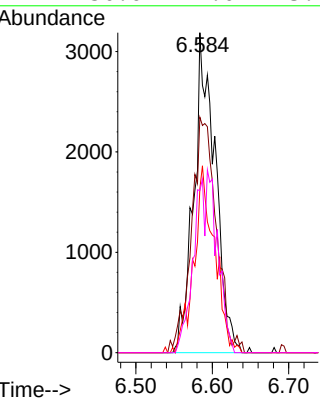
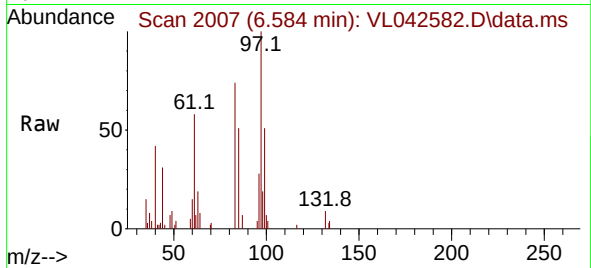
Tgt Ion	Ratio	Lower	Upper
97	100		
83	73.6	63.9	95.9
85	51.2	39.2	58.8
99	50.6	49.0	73.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#48

Dibromochloromethane

Concen: 0.497 ppbv m

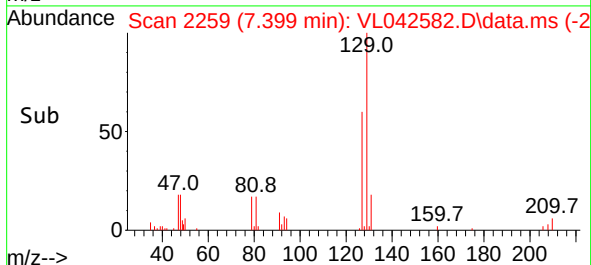
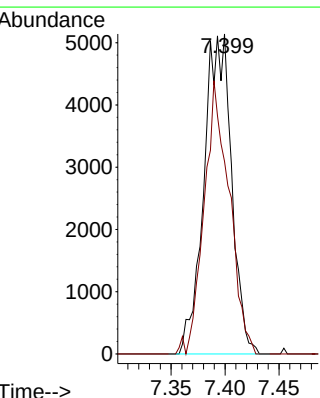
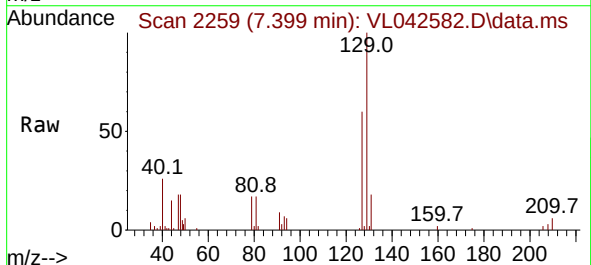
RT: 7.399 min Scan# 2259

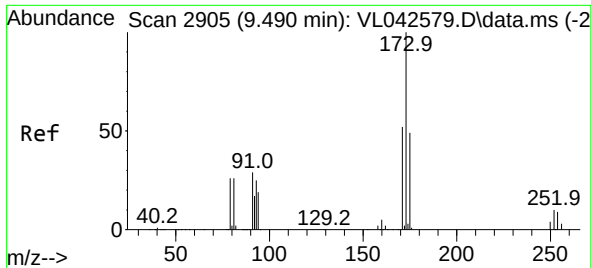
Delta R.T. 0.003 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

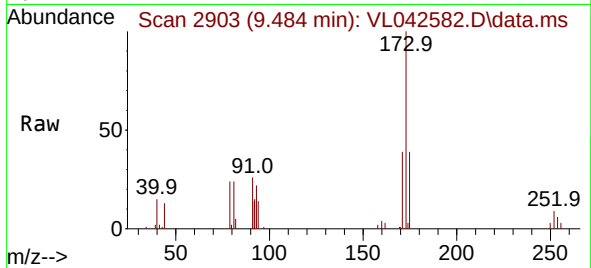
Tgt Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.0	116.9





#49
Bromoform
Concen: 0.503 ppbv
RT: 9.484 min Scan# 2905
Delta R.T. -0.006 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

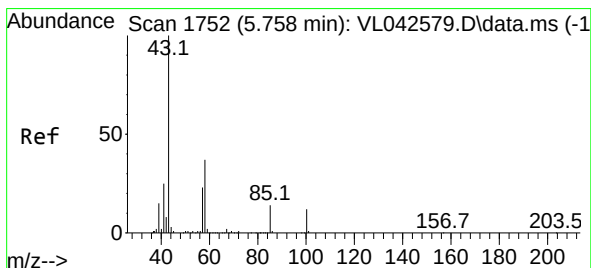
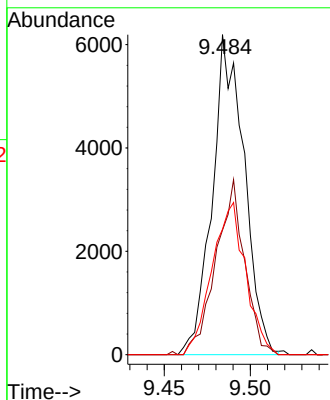
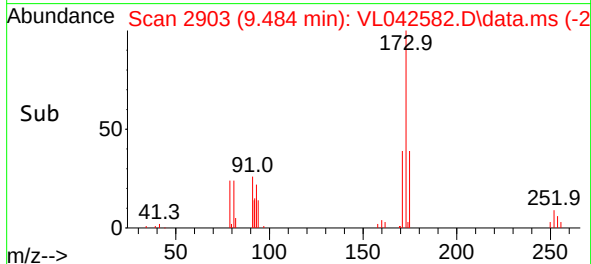
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 173 Resp: 7974
Ion Ratio Lower Upper
173 100
175 49.4 38.7 58.1
171 50.2 41.2 61.8

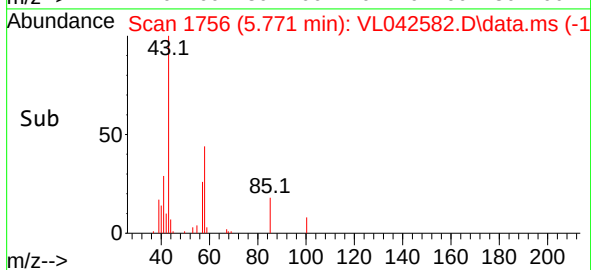
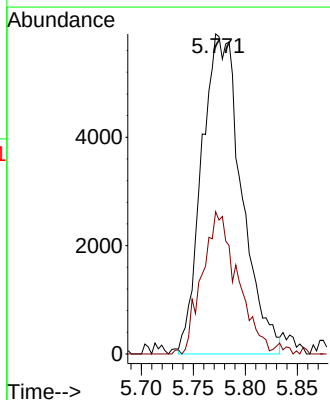
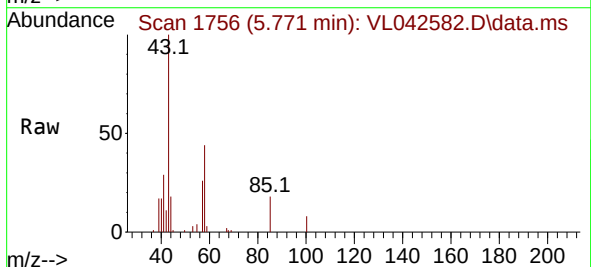
Manual Integrations
APPROVED

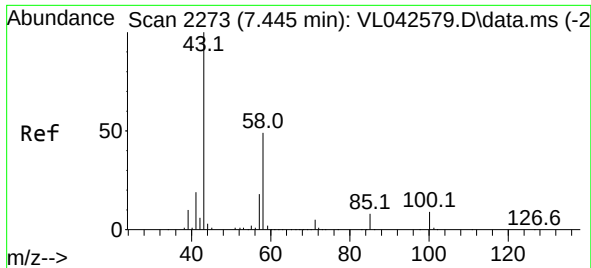
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#50
4-Methyl-2-Pentanone
Concen: 0.522 ppbv m
RT: 5.771 min Scan# 1756
Delta R.T. 0.013 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 43 Resp: 15782
Ion Ratio Lower Upper
43 100
58 40.5 28.3 42.5





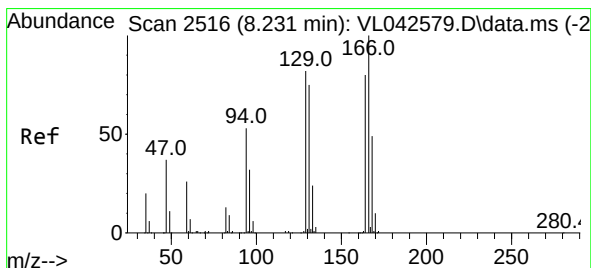
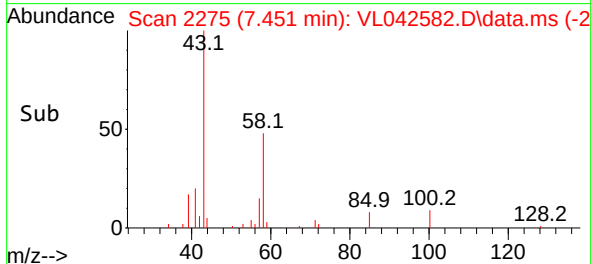
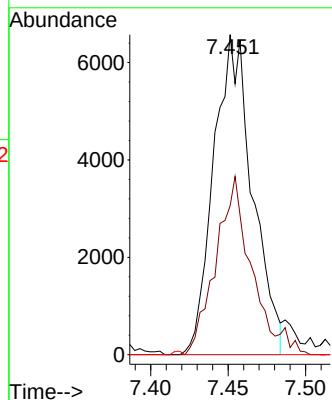
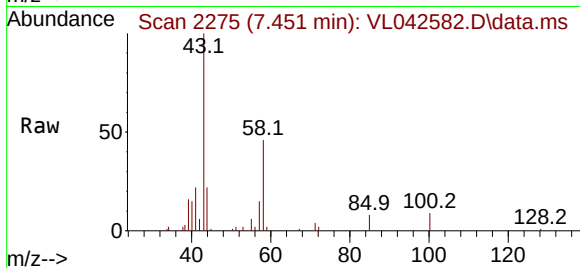
#51
2-Hexanone
Concen: 0.479 ppbv
RT: 7.451 min Scan# 211
Delta R.T. 0.007 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 1145
Ion Ratio Lower Upper
43 100
58 51.5 39.9 59.9
98 0.0 0.1 0.1

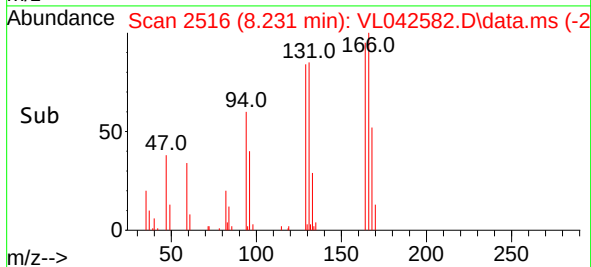
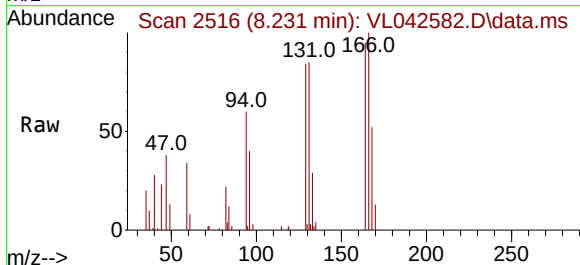
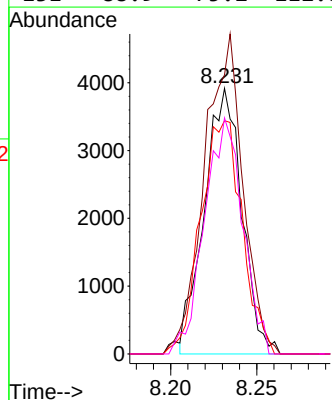
Manual Integrations
APPROVED

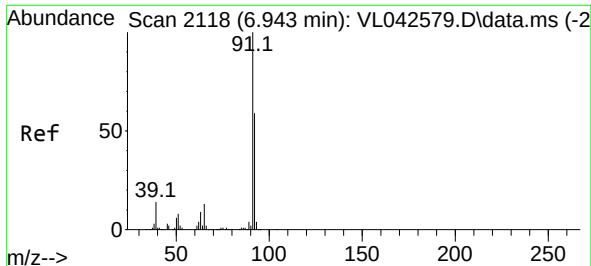
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#52
Tetrachloroethene
Concen: 0.531 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

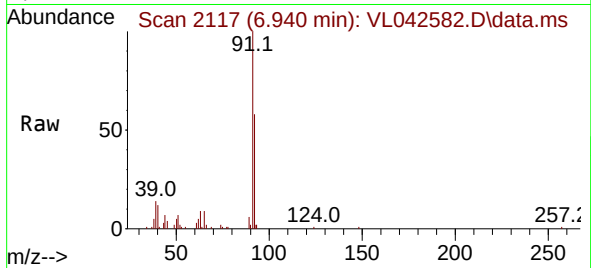
Tgt Ion:164 Resp: 5950
Ion Ratio Lower Upper
164 100
166 105.1 100.0 150.0
129 87.8 82.2 123.4
131 88.9 75.2 112.8





#53
Toluene
Concen: 0.532 ppbv
RT: 6.940 min Scan# 2118
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

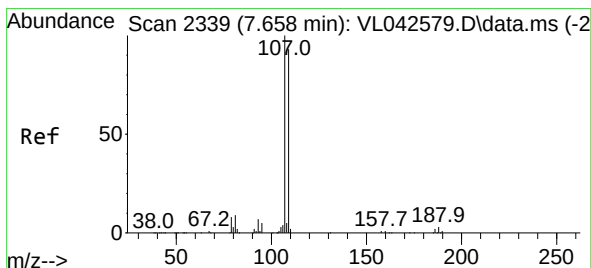
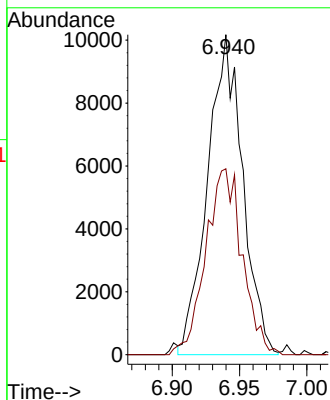
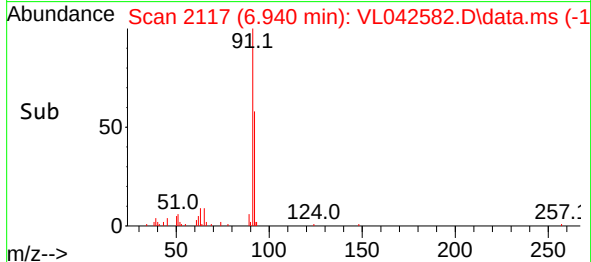
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 91 Resp: 18429
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.4

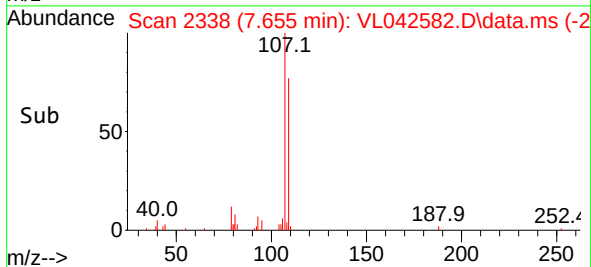
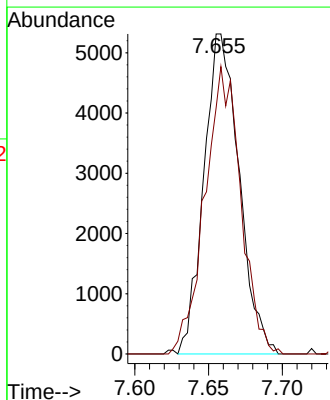
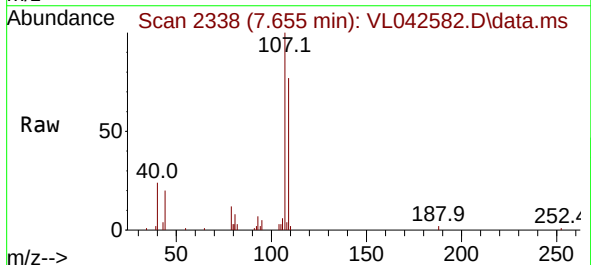
Manual Integrations
APPROVED

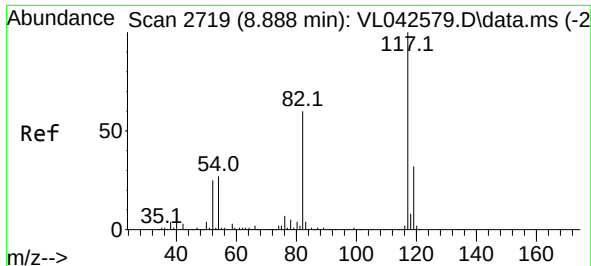
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#54
1,2-Dibromoethane
Concen: 0.518 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

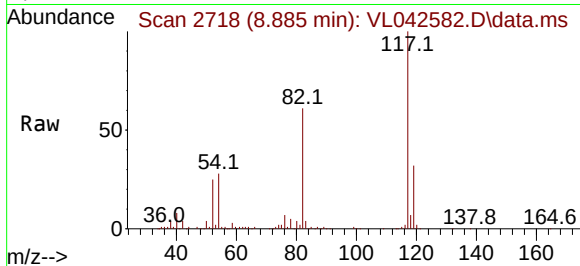
Tgt Ion:107 Resp: 8810
Ion Ratio Lower Upper
107 100
109 75.3 74.3 111.5





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2719
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

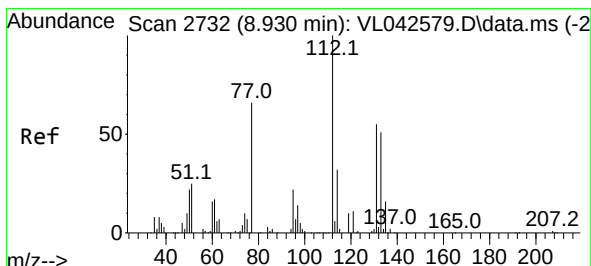
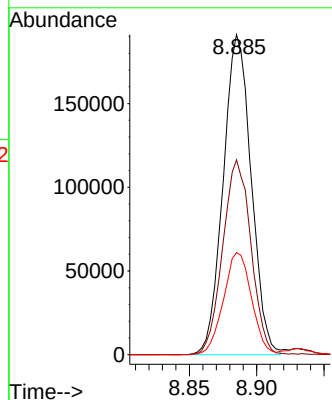
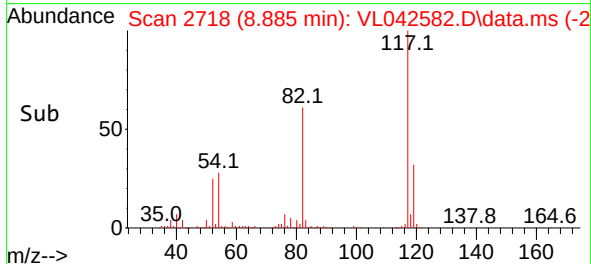
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion:117 Resp: 276104
Ion Ratio Lower Upper
117 100
82 61.6 51.2 76.8
119 32.5 26.3 39.5

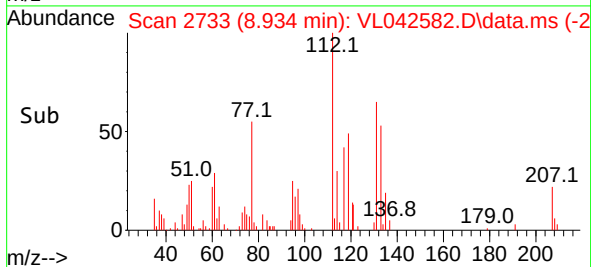
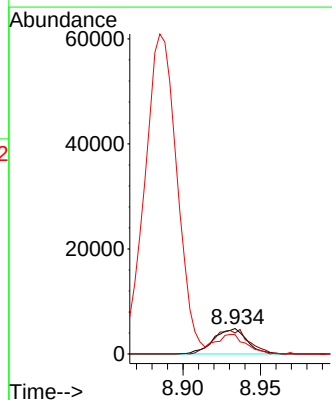
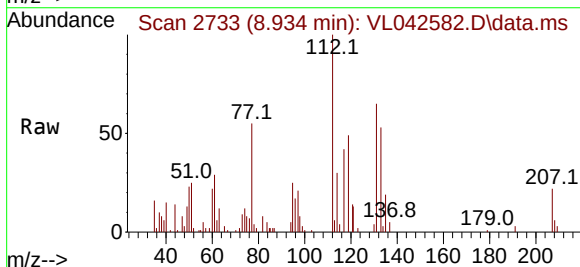
Manual Integrations
APPROVED

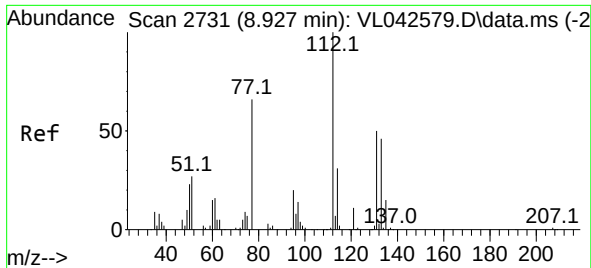
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 0.517 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

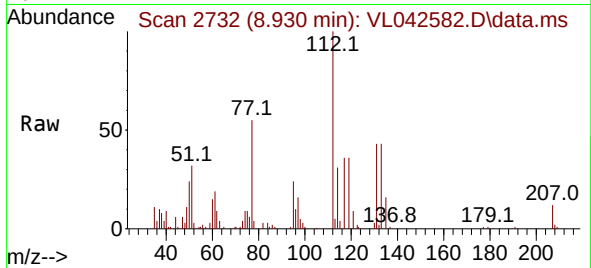
Tgt Ion:131 Resp: 7178
Ion Ratio Lower Upper
131 100
133 102.6 75.0 112.6
119 52.0 50.8 76.2





#57
Chlorobenzene
Concen: 0.557 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

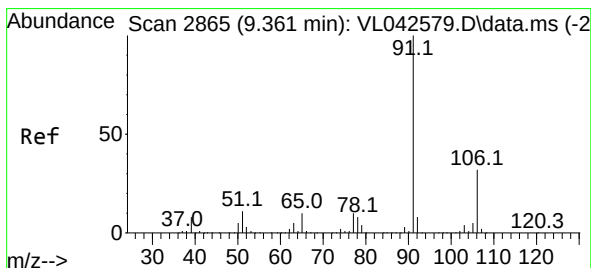
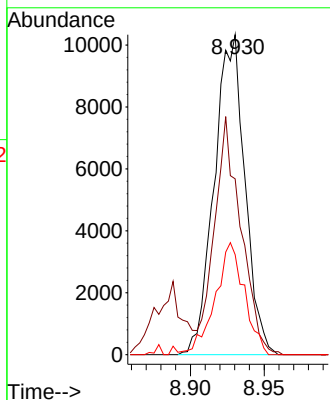
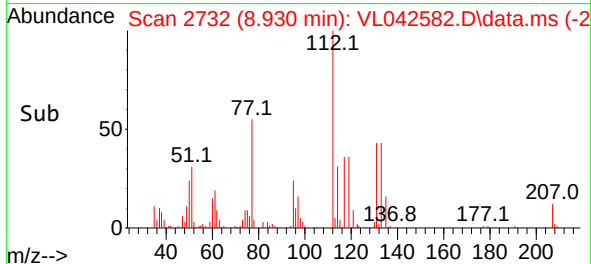
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5



Tgt Ion: 112 Resp: 14920
Ion Ratio Lower Upper
112 100
77 54.0 53.5 80.3
114 31.2 27.8 34.0

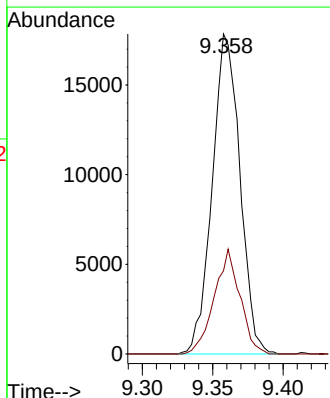
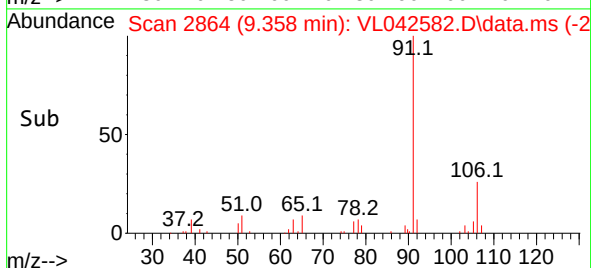
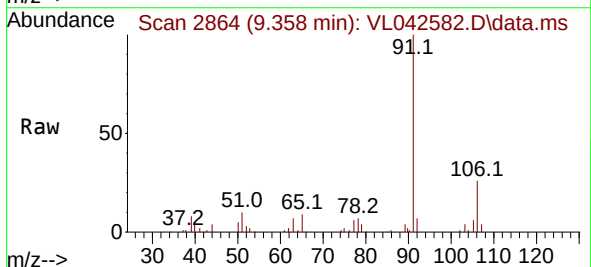
Manual Integrations
APPROVED

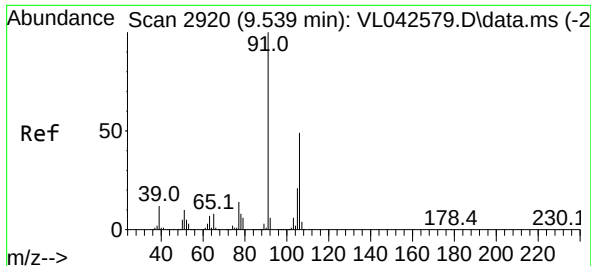
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#58
Ethyl Benzene
Concen: 0.522 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 91 Resp: 24442
Ion Ratio Lower Upper
91 100
106 25.9 25.9 38.9





#59

m/p-Xylene

Concen: 1.057 ppbv m

RT: 9.555 min Scan# 2920

Delta R.T. 0.016 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 91 Resp: 3895

Ion Ratio Lower Upper

91 100

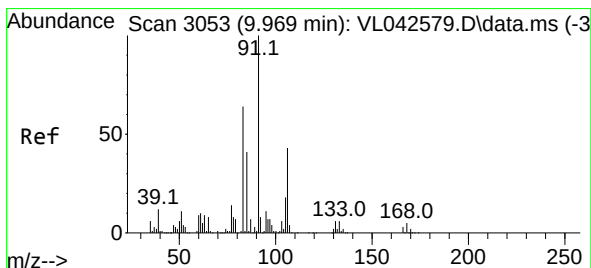
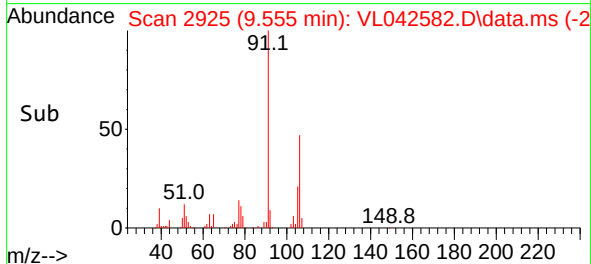
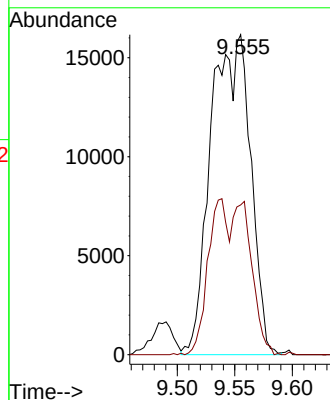
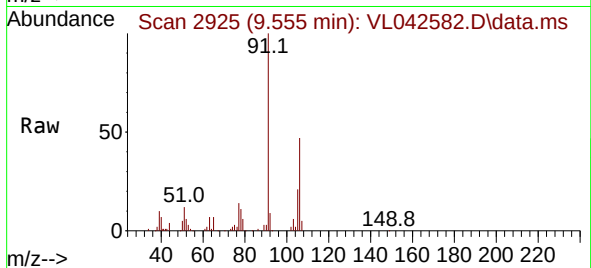
106 0.0 38.8 58.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#60

o-Xylene

Concen: 0.537 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.003 min

Lab File: VL042582.D

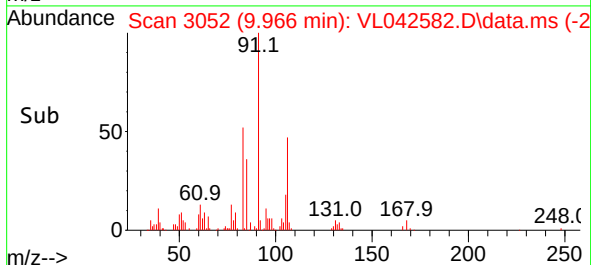
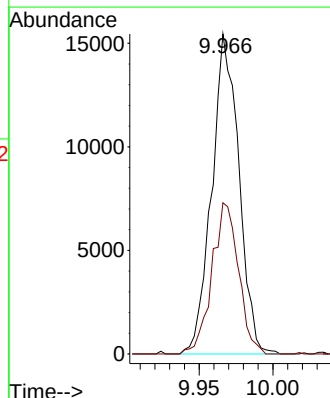
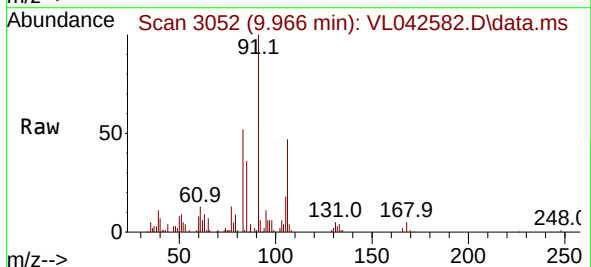
Acq: 29 May 2025 12:47

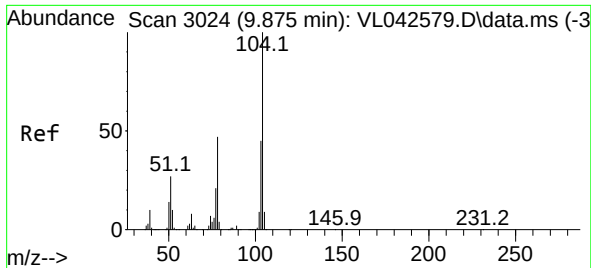
Tgt Ion: 91 Resp: 19745

Ion Ratio Lower Upper

91 100

106 46.2 22.9 68.5





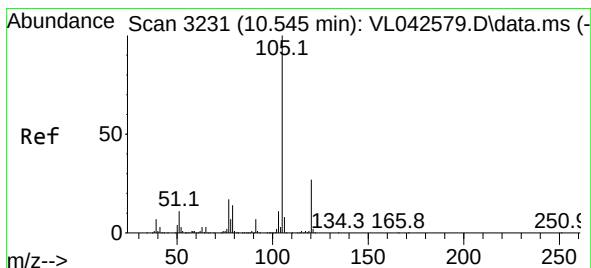
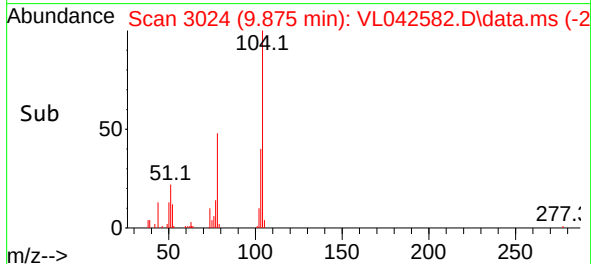
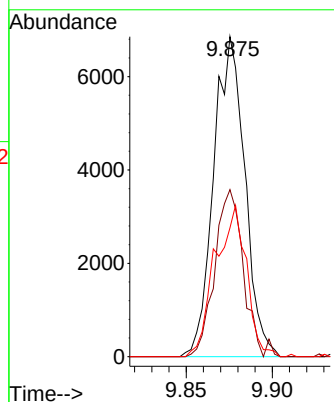
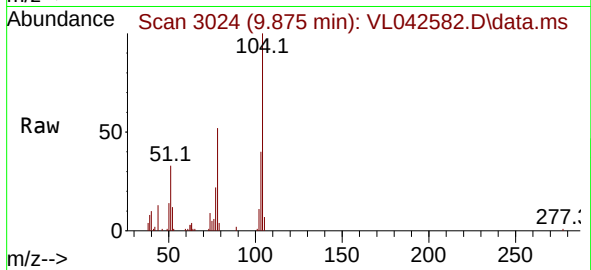
#61
Styrene
Concen: 0.497 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:104 Resp: 8639
Ion Ratio Lower Upper
104 100
78 47.9 38.2 57.4
103 47.6 36.7 55.1

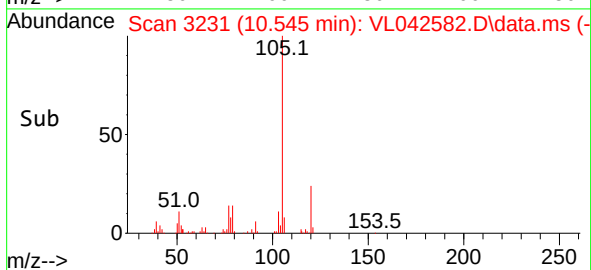
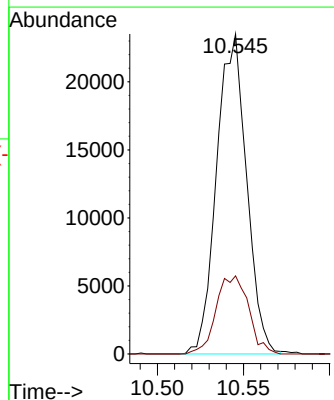
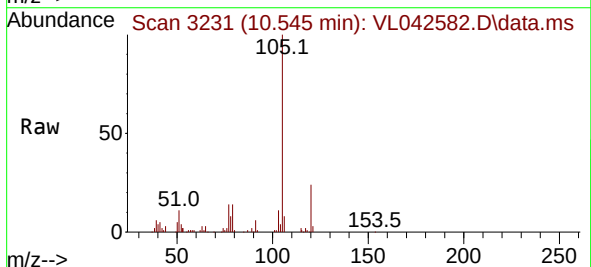
Manual Integrations
APPROVED

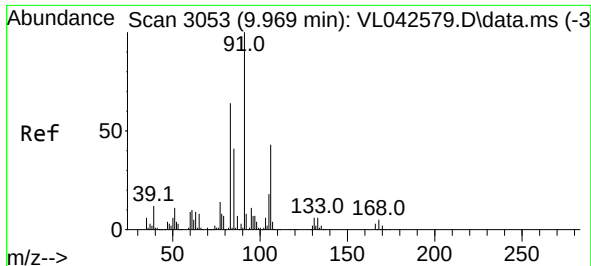
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#62
Isopropylbenzene
Concen: 0.524 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion:105 Resp: 28442
Ion Ratio Lower Upper
105 100
120 26.4 20.9 31.3





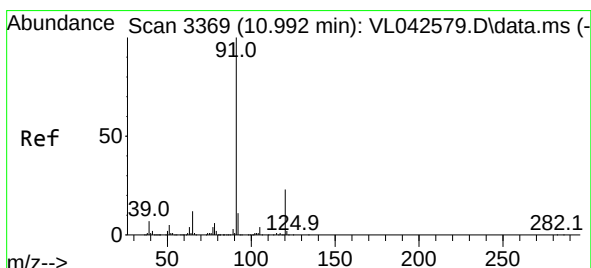
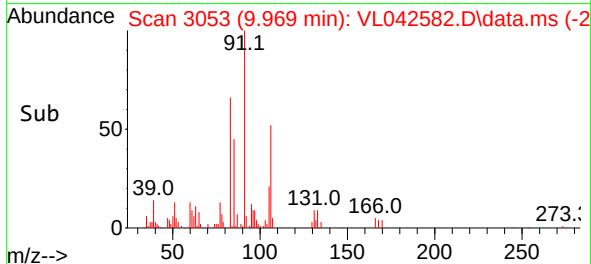
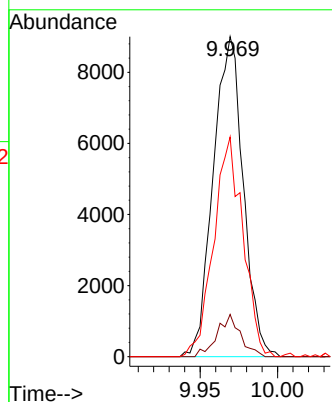
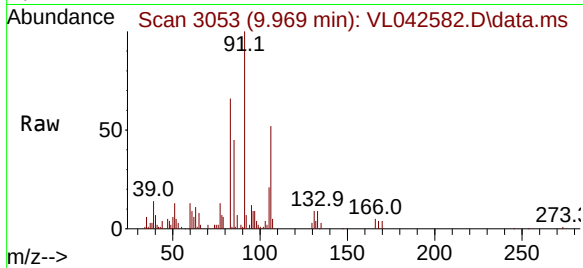
#63
1,1,2,2-Tetrachloroethane
Concen: 0.519 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion	Ratio	Lower	Upper
83	100		
131	10.2	4.8	14.4
85	67.5	32.5	97.4

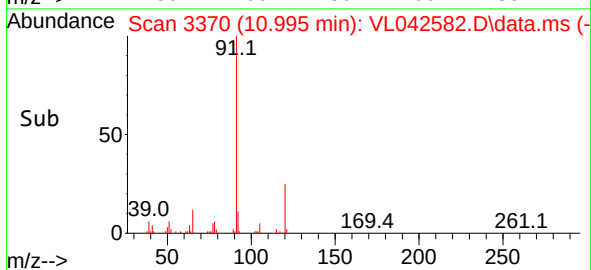
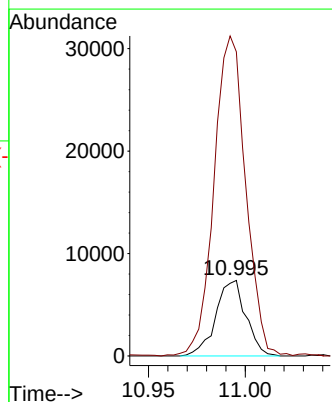
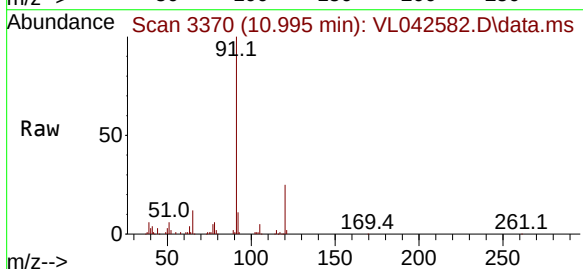
Manual Integrations
APPROVED

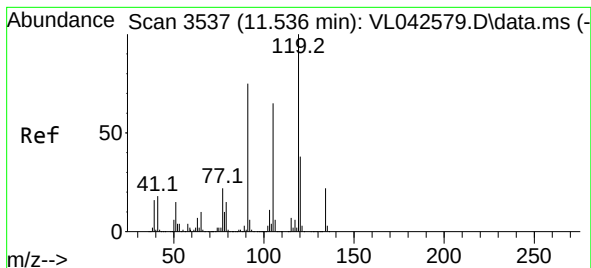
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#64
n-propylbenzene
Concen: 0.549 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion	Ratio	Lower	Upper
120	100		
91	447.2	363.0	544.6





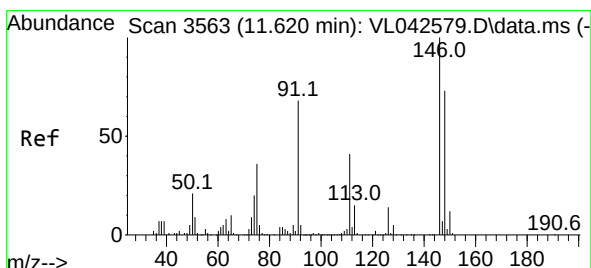
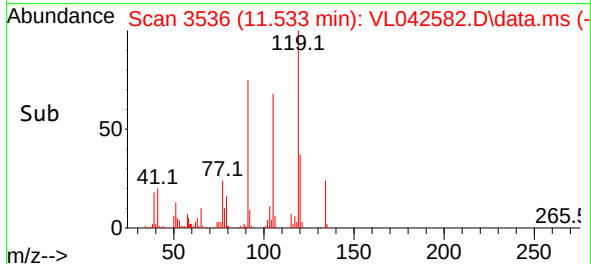
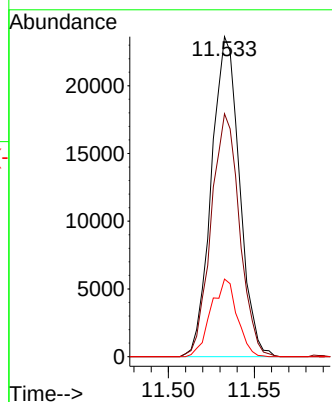
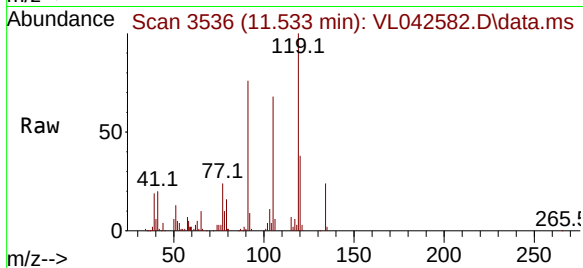
#65
tert-Butylbenzene
Concen: 0.545 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
119	100		
91	76.7	61.1	91.7
134	22.6	17.4	26.2

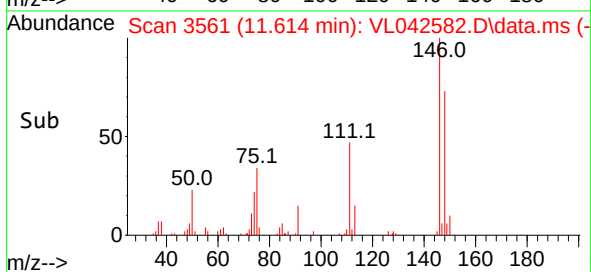
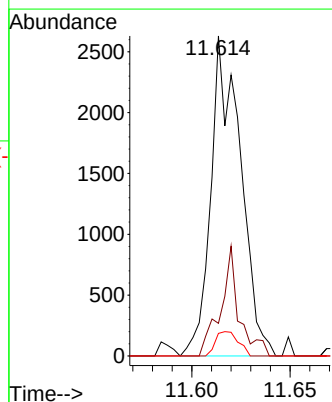
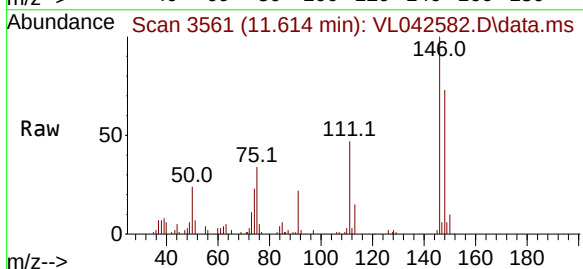
Manual Integrations
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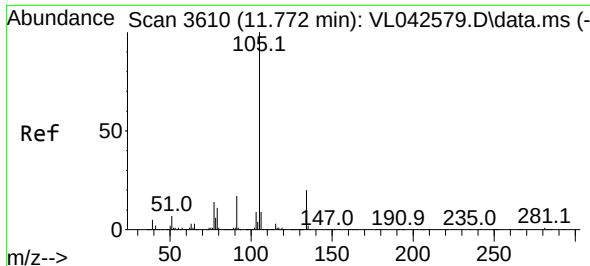
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#66
Benzyl Chloride
Concen: 0.433 ppbv m
RT: 11.614 min Scan# 3561
Delta R.T. -0.006 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion	Ratio	Lower	Upper
91	100		
126	0.0	15.1	22.7#
128	0.0	5.0	7.6#





#67

sec-Butylbenzene

Concen: 0.547 ppbv

RT: 11.769 min Scan# 3609

Delta R.T. -0.003 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 3789

Ion Ratio Lower Upper

105 100

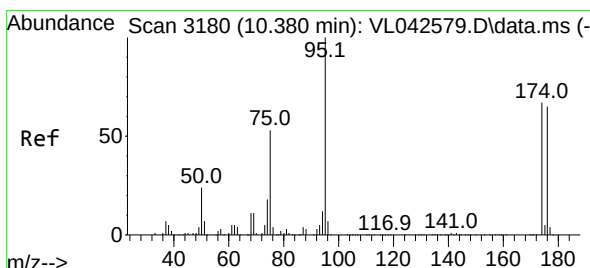
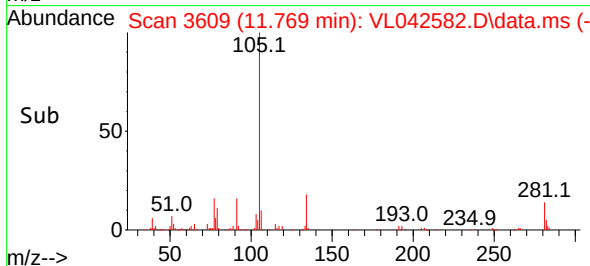
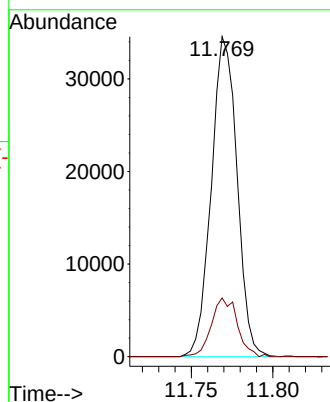
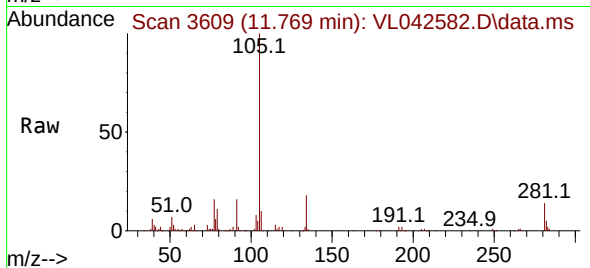
134 18.6 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.065 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. 0.000 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

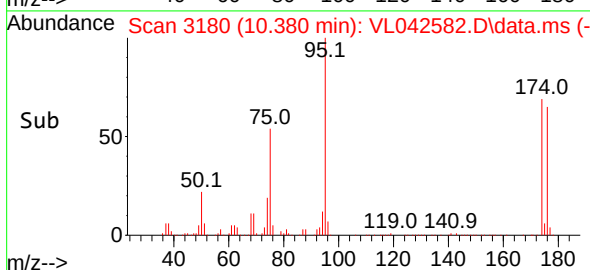
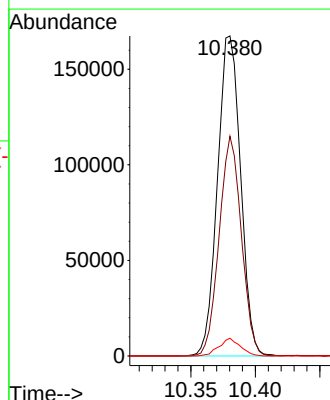
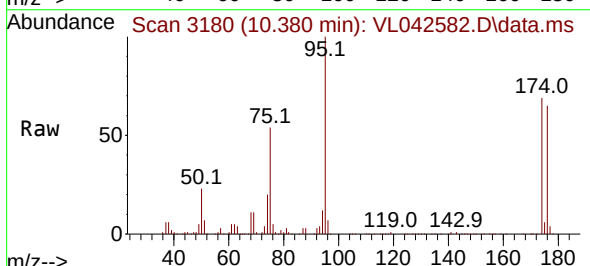
Tgt Ion: 95 Resp: 208325

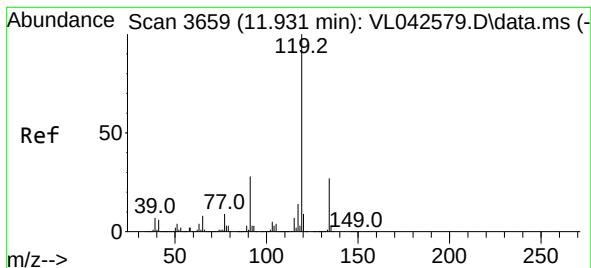
Ion Ratio Lower Upper

95 100

174 66.0 53.1 79.7

175 5.1 4.2 6.2





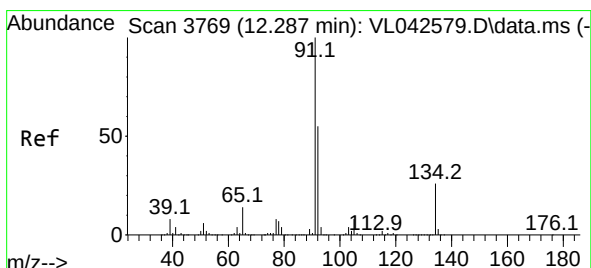
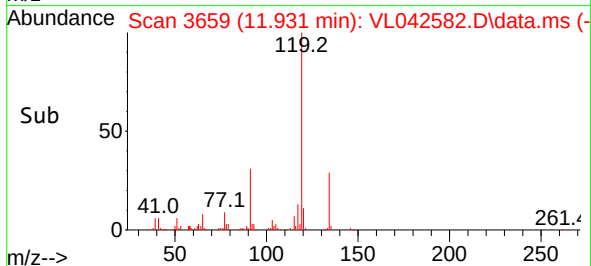
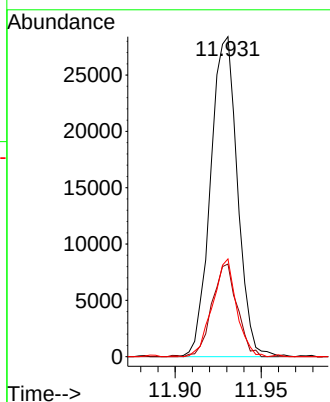
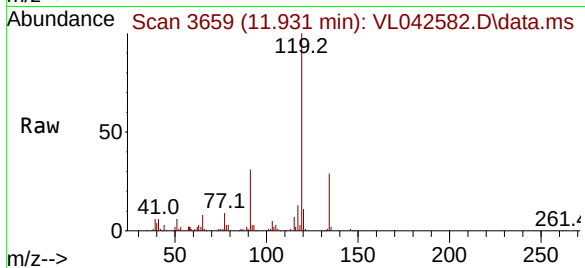
#69
p-Isopropyltoluene
Concen: 0.533 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:	119	Resp:	3093
Ion Ratio	Lower	Upper	
119	100		
134	27.1	21.1	31.7
91	27.5	21.9	32.9

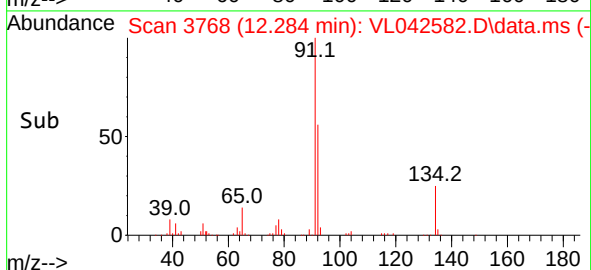
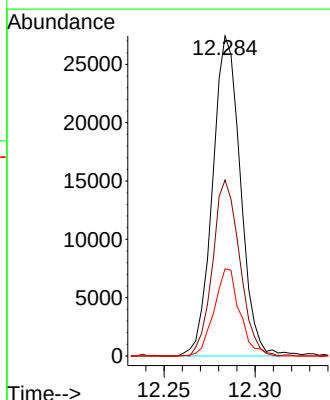
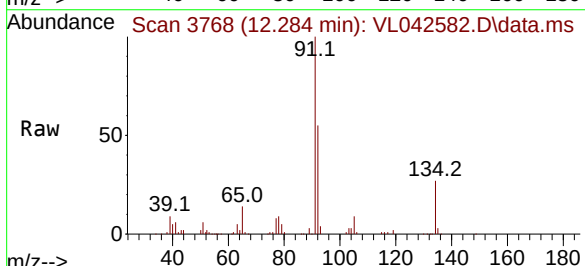
Manual Integrations
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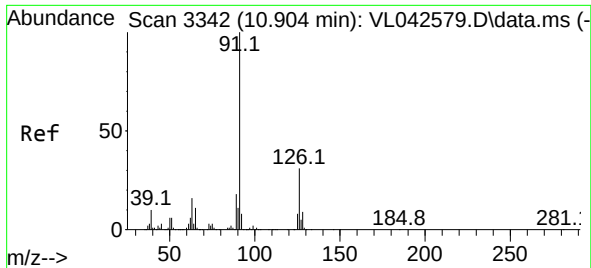
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#70
n-Butylbenzene
Concen: 0.509 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion:	91	Resp:	29130
Ion Ratio	Lower	Upper	
91	100		
92	53.7	44.4	66.6
134	25.1	20.1	30.1





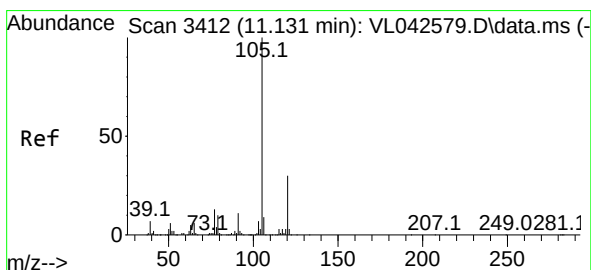
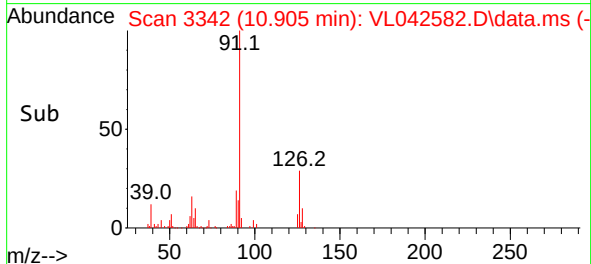
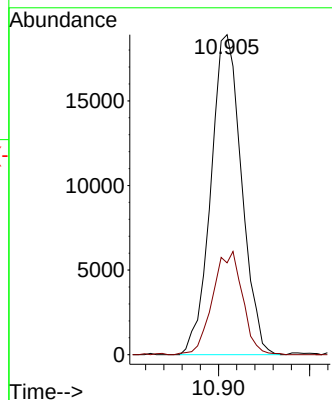
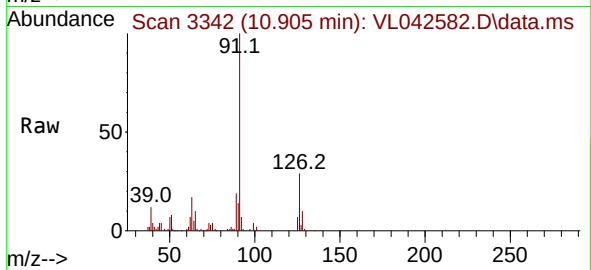
#71
2-Chlorotoluene
Concen: 0.534 ppbv
RT: 10.905 min Scan# 3113
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 22135
Ion Ratio Lower Upper
91 100
126 31.5 12.6 50.4

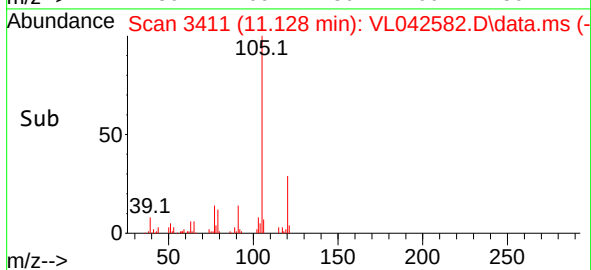
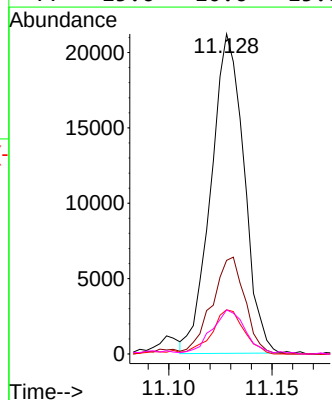
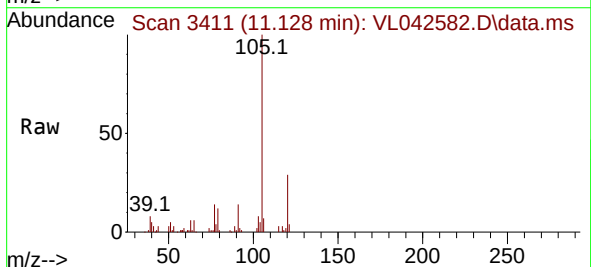
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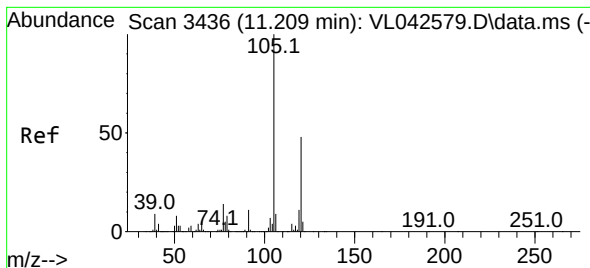
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#72
4-Ethyltoluene
Concen: 0.513 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion:105 Resp: 23521
Ion Ratio Lower Upper
105 100
120 31.5 24.6 36.8
91 14.3 9.6 14.4
77 15.6 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 0.524 ppbv

RT: 11.206 min Scan# 3436

Delta R.T. -0.003 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 1989

Ion Ratio Lower Upper

105 100

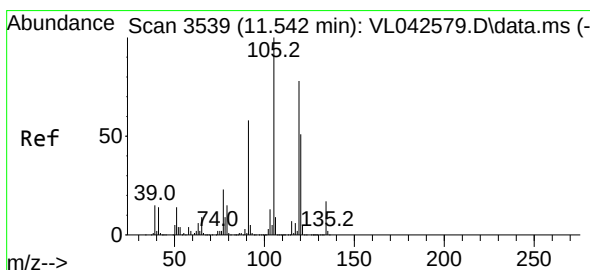
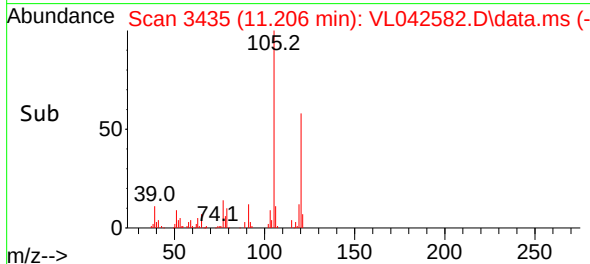
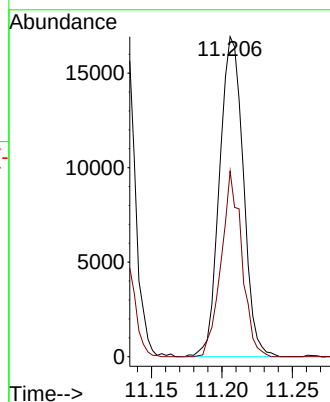
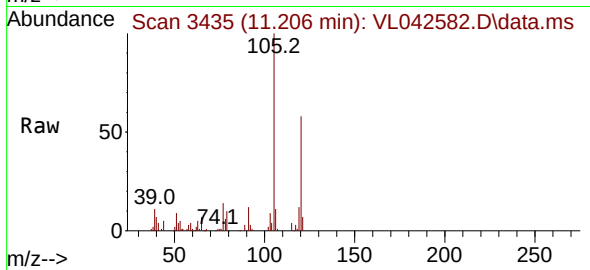
120 58.0 38.8 58.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.538 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.006 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Tgt Ion:105 Resp: 22635

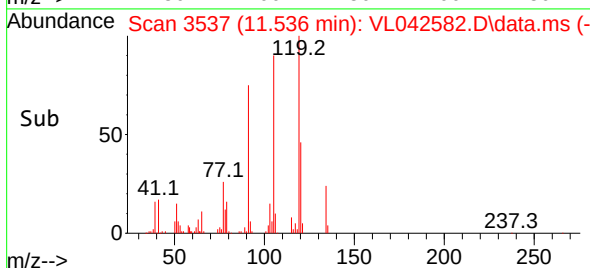
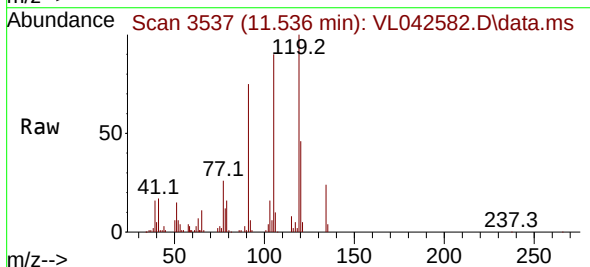
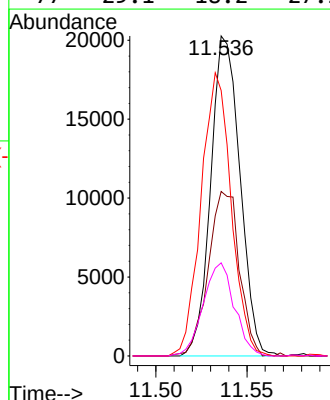
Ion Ratio Lower Upper

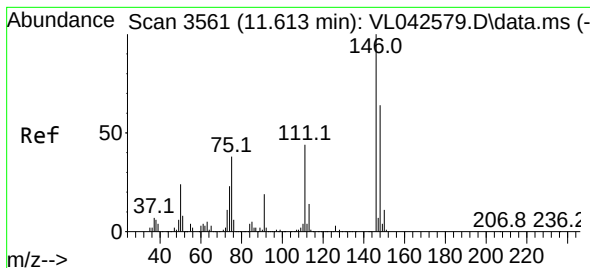
105 100

120 50.6 40.8 61.2

91 83.0 46.8 70.2#

77 29.1 18.2 27.2#





#75

1,3-Dichlorobenzene

Concen: 0.538 ppbv

RT: 11.610 min Scan# 3561

Delta R.T. -0.003 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

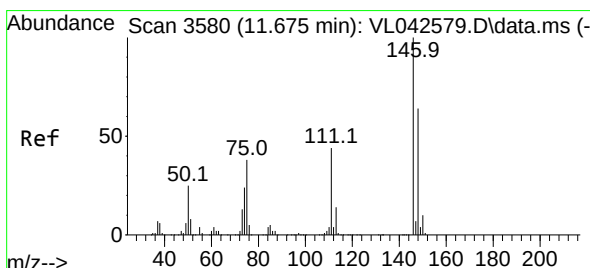
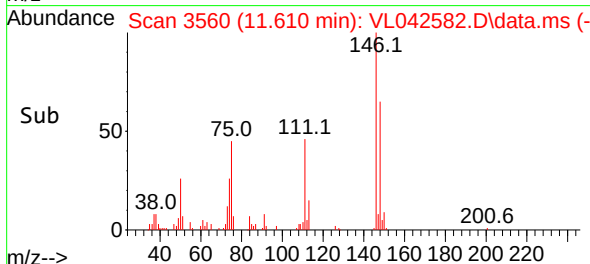
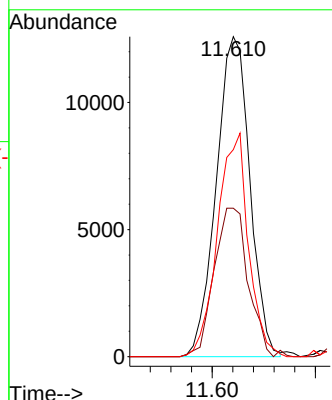
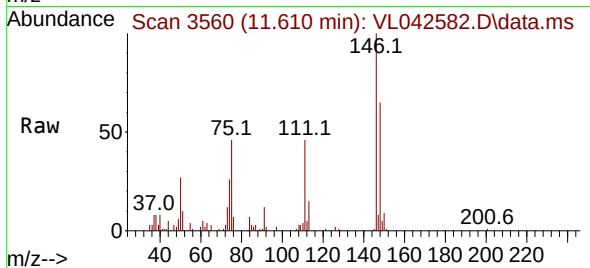
VSTDIC0.5

Tgt Ion:	146	Resp:	1423
Ion Ratio	Lower	Upper	
146	100		
111	47.3	22.4	67.3
148	64.2	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#76

1,4-Dichlorobenzene

Concen: 0.522 ppbv

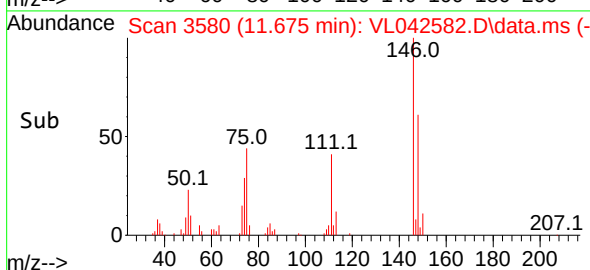
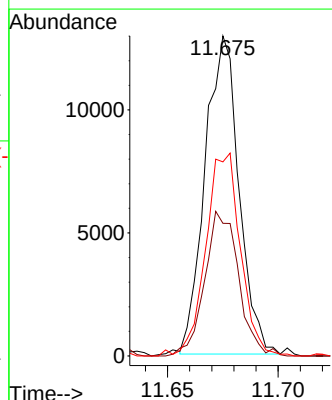
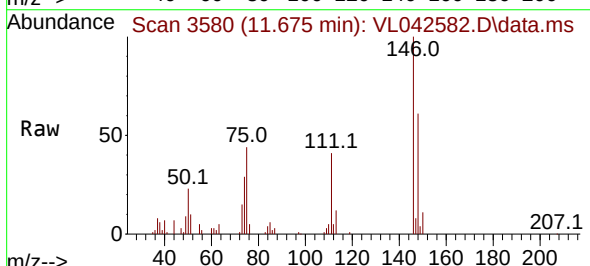
RT: 11.675 min Scan# 3580

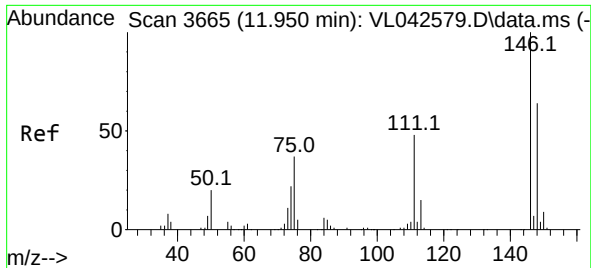
Delta R.T. 0.000 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

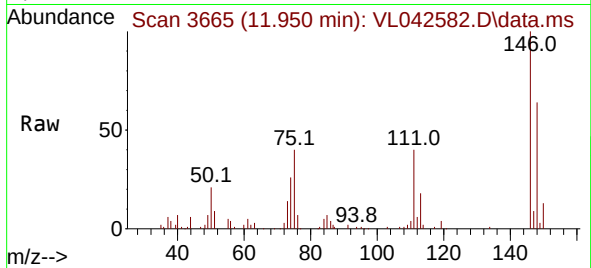
Tgt Ion:	146	Resp:	13773
Ion Ratio	Lower	Upper	
146	100		
111	45.3	21.6	64.8
148	65.5	32.1	96.5





#77
1,2-Dichlorobenzene
Concen: 0.548 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

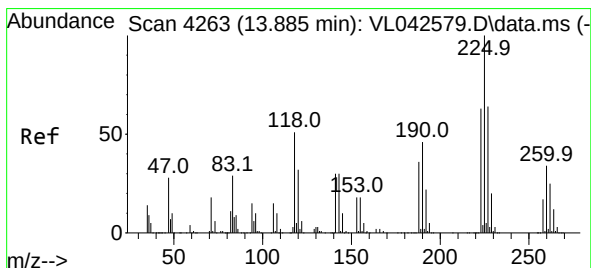
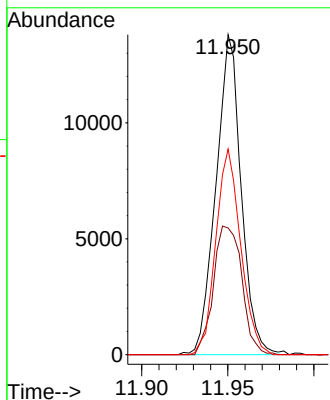
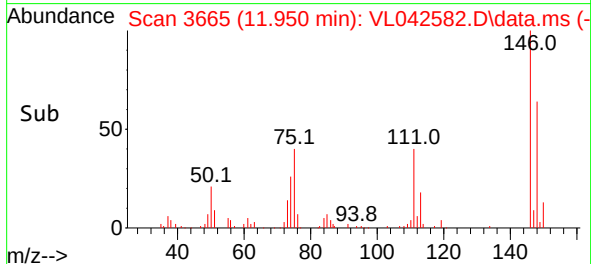
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5



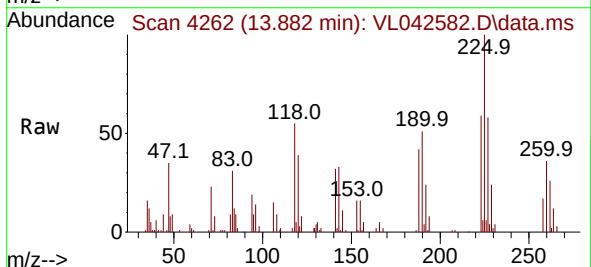
Tgt Ion:146 Resp: 14062
Ion Ratio Lower Upper
146 100
111 45.2 23.1 69.3
148 63.5 32.1 96.3

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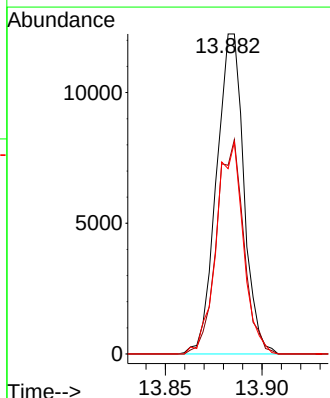
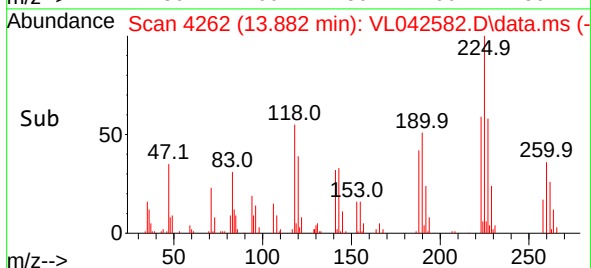
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

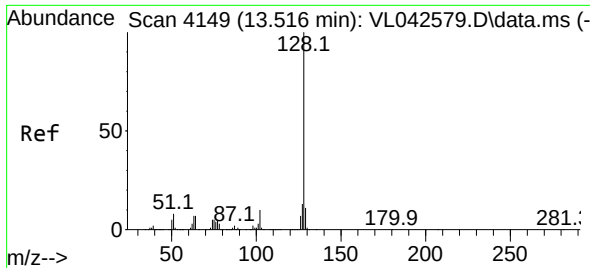


#78
Hexachloro-1,3-Butadiene
Concen: 0.567 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47



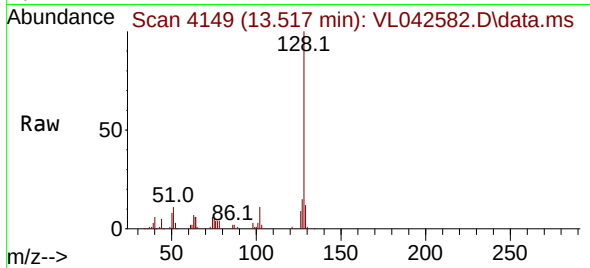
Tgt Ion:225 Resp: 12036
Ion Ratio Lower Upper
225 100
223 66.2 50.2 75.4
227 65.3 51.1 76.7





#79
Naphthalene
Concen: 0.477 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

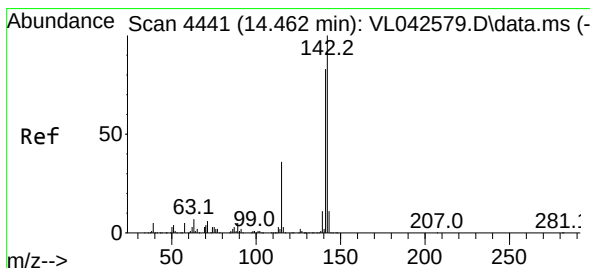
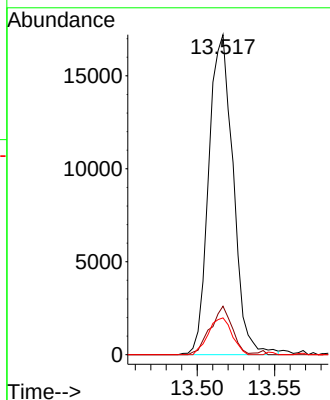
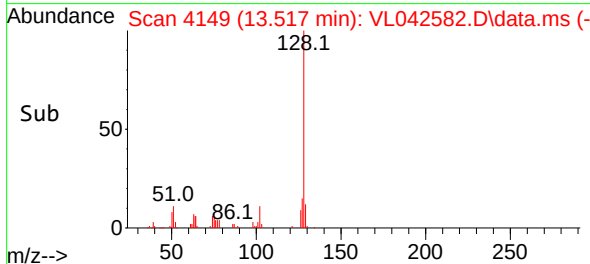
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



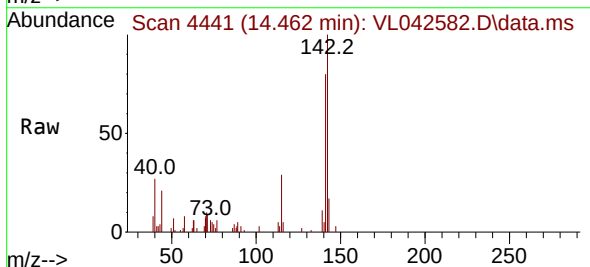
Tgt Ion:128 Resp: 1885
Ion Ratio Lower Upper
128 100
127 15.1 10.2 15.4
129 11.5 8.8 13.2

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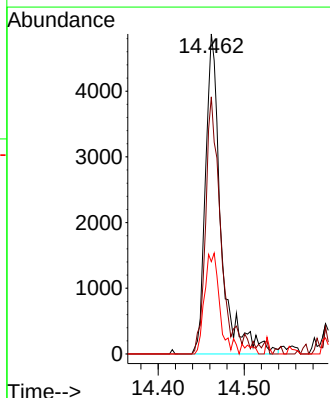
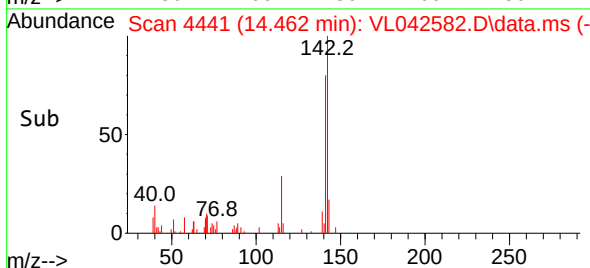
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

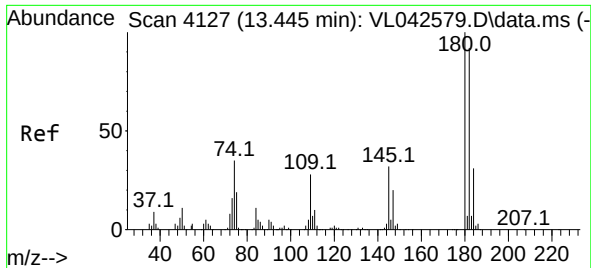


#80
Naphthalene,2-methyl-
Concen: 0.342 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47



Tgt Ion:142 Resp: 6126
Ion Ratio Lower Upper
142 100
141 81.6 66.2 99.4
115 33.8 28.3 42.5





#81

1,2,4-Trichlorobenzene

Concen: 0.446 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042582.D

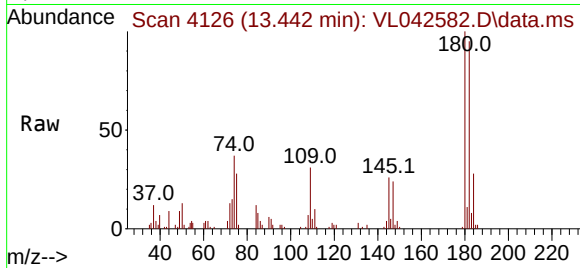
Acq: 29 May 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

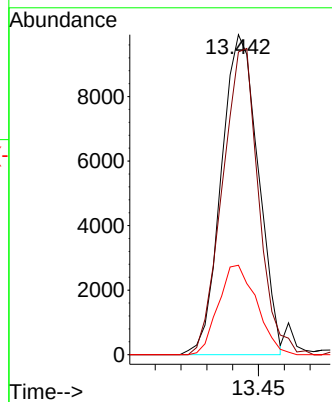
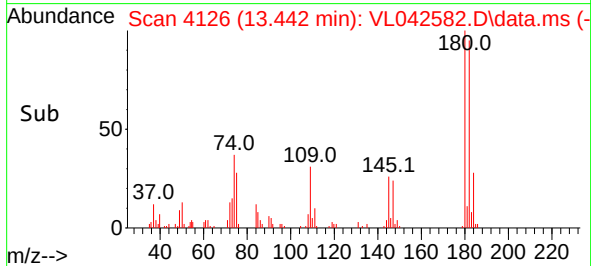


Tgt Ion:	180	Resp:	9879
Ion Ratio	Lower	Upper	
180	100		
182	93.7	75.0	112.4
184	28.9	24.6	36.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042583.D
 Acq On : 29 May 2025 13:19
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:35:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103370	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	302218	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	273881	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	205672	10.018	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.200%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	481	0.094	ppbv #	31
32) 1,1,1-Trichloroethane	3.373	97	2153	0.107	ppbv	90
35) Carbon Tetrachloride	3.768	117	2135	0.107	ppbv #	76
38) Trichloroethene	4.548	130	1305m	0.102	ppbv	
52) Tetrachloroethene	8.238	164	1230m	0.111	ppbv	
54) 1,2-Dibromoethane	7.658	107	1737m	0.103	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	2267	0.098	ppbv	96
79) Naphthalene	13.523	128	2980m	0.076	ppbv	

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

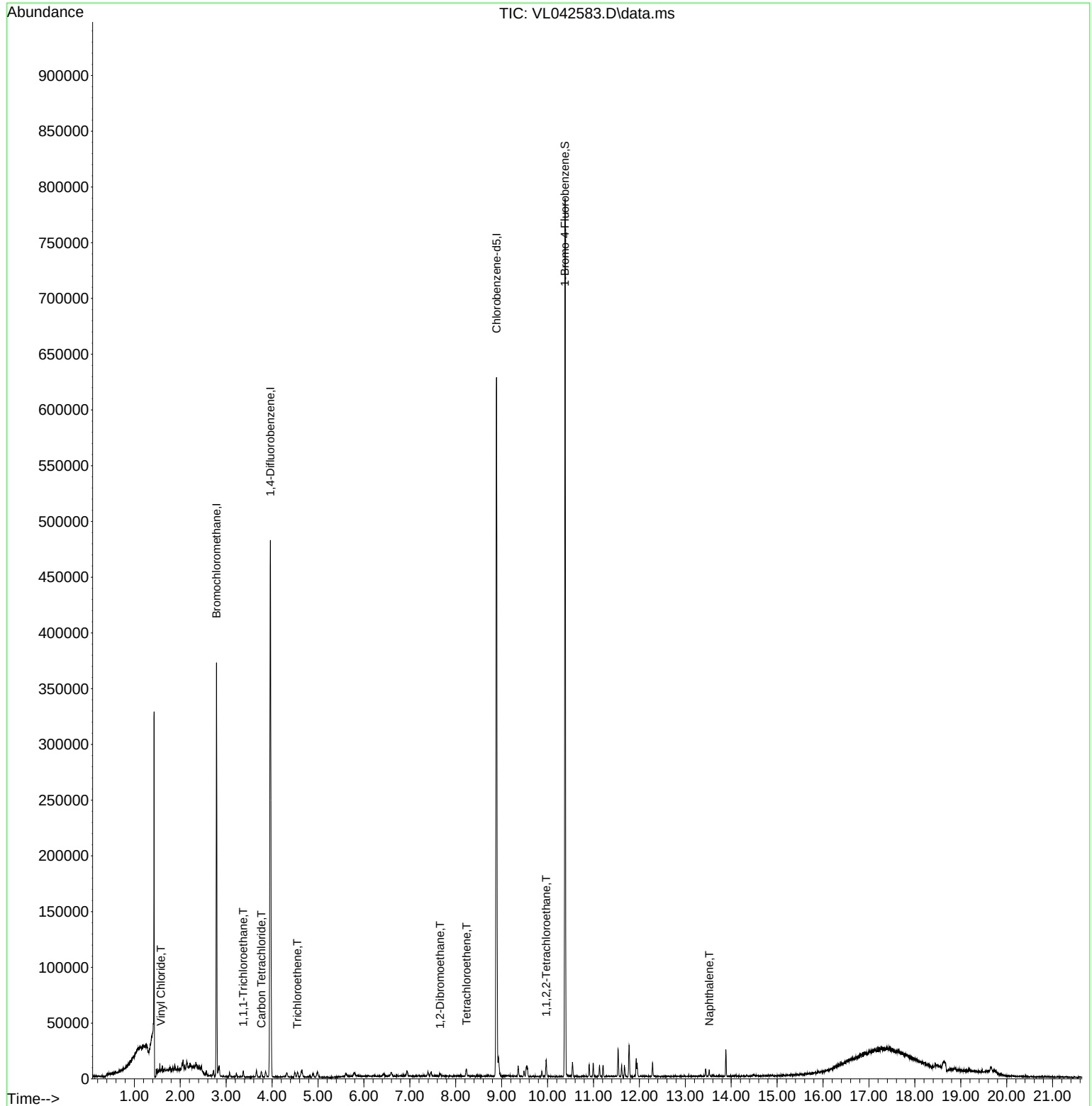
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042583.D
Acq On : 29 May 2025 13:19
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

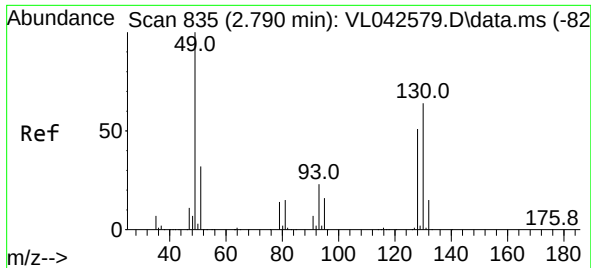
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

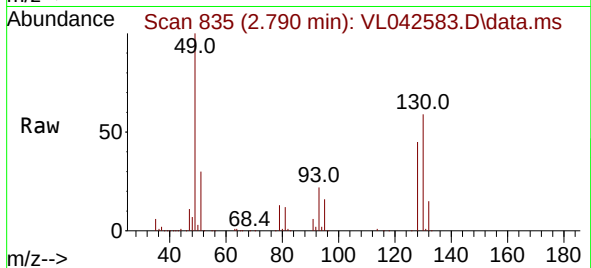
Quant Time: May 30 01:35:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

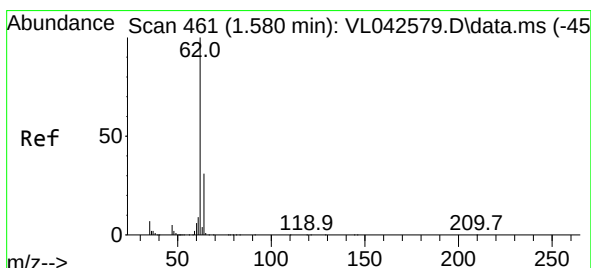
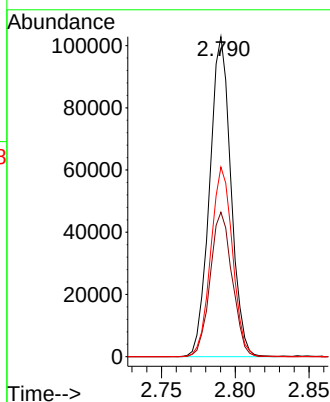
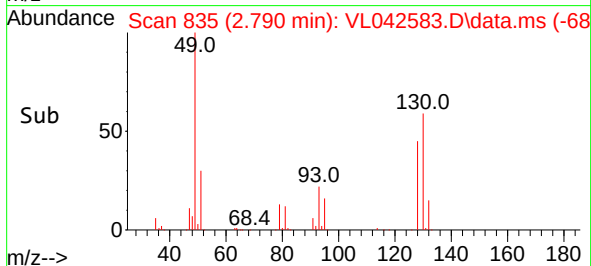
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion: 49 Resp: 103370
Ion Ratio Lower Upper
49 100
128 46.5 24.2 72.6
130 60.4 30.4 91.2

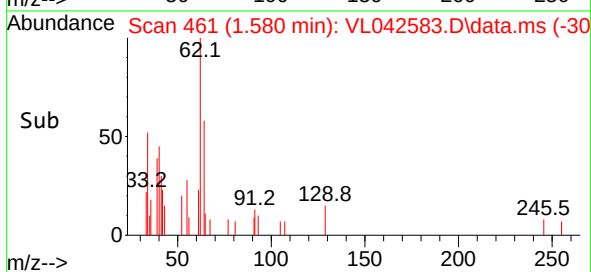
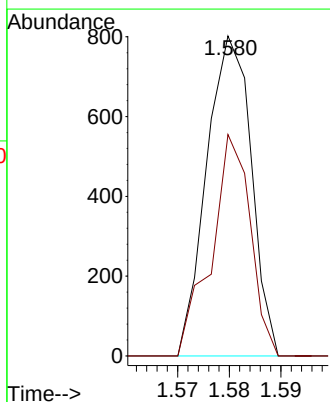
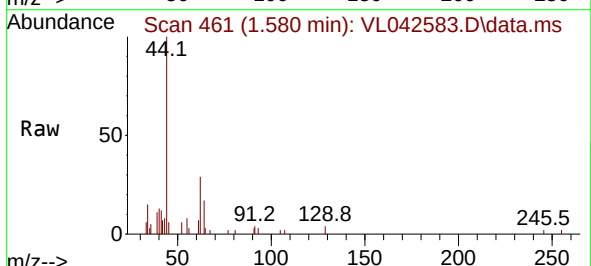
Manual Integrations
APPROVED

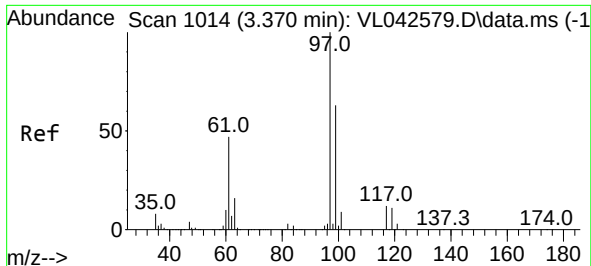
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#5
Vinyl Chloride
Concen: 0.094 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 62 Resp: 481
Ion Ratio Lower Upper
62 100
64 69.2 24.9 37.3#





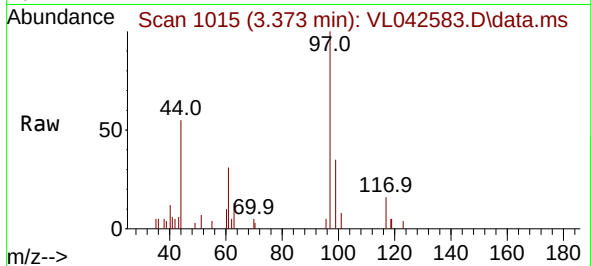
#32
 1,1,1-Trichloroethane
 Concen: 0.107 ppbv
 RT: 3.373 min Scan# 1014
 Delta R.T. 0.003 min
 Lab File: VL042583.D
 Acq: 29 May 2025 13:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.1

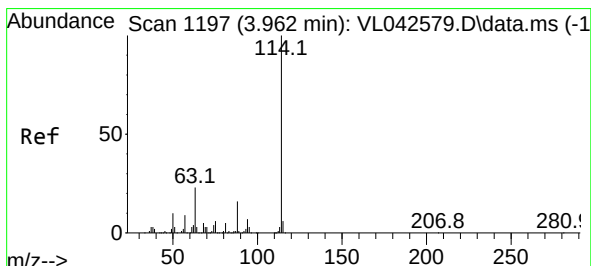
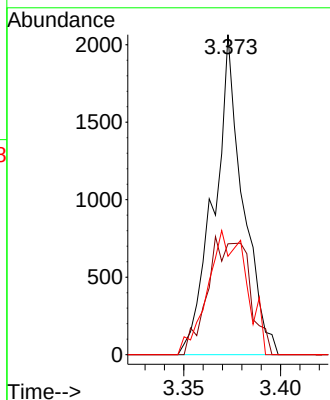
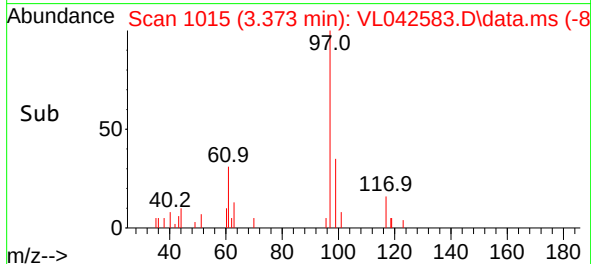


Tgt Ion: 97 Resp: 215
 Ion Ratio Lower Upper
 97 100
 99 52.2 51.0 76.6
 61 51.3 39.4 59.0

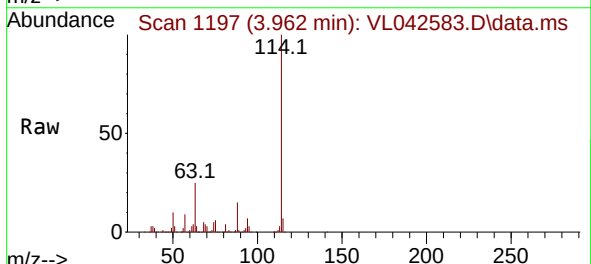
Manual Integrations

APPROVED

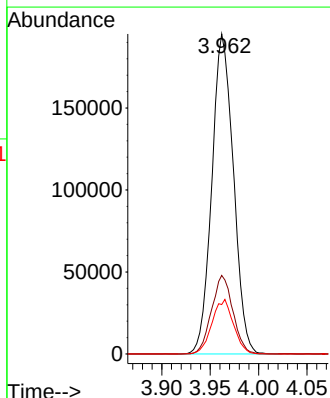
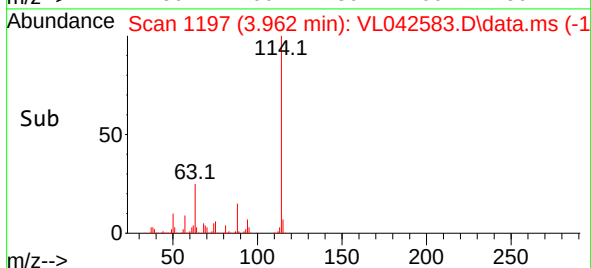
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

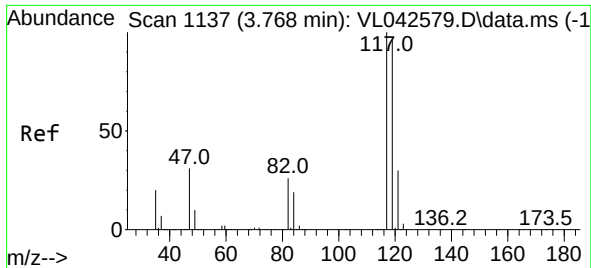


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. 0.000 min
 Lab File: VL042583.D
 Acq: 29 May 2025 13:19



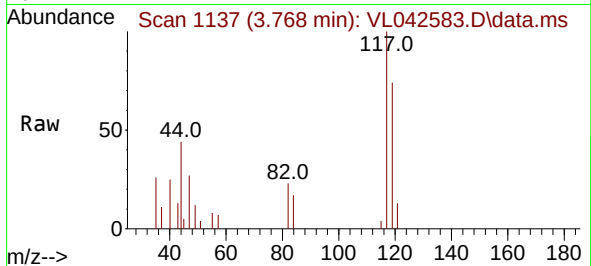
Tgt Ion:114 Resp: 302218
 Ion Ratio Lower Upper
 114 100
 63 24.3 19.0 28.6
 88 17.0 13.6 20.4





#35
Carbon Tetrachloride
Concen: 0.107 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

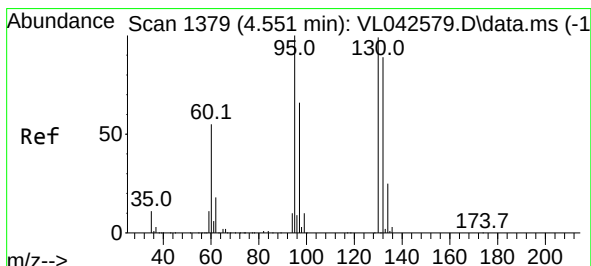
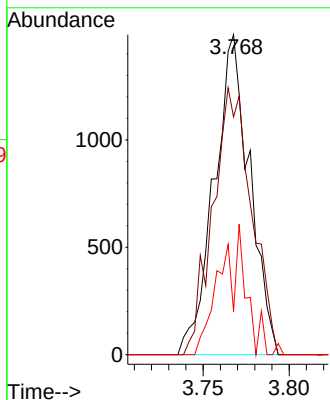
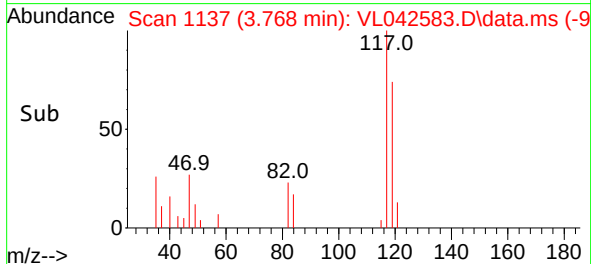
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



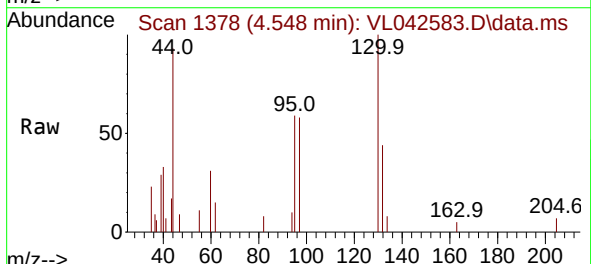
Tgt Ion:117 Resp: 213
Ion Ratio Lower Upper
117 100
119 74.3 76.8 115.2
121 13.5 24.3 36.5

Manual Integrations
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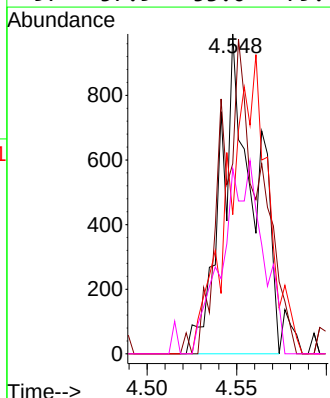
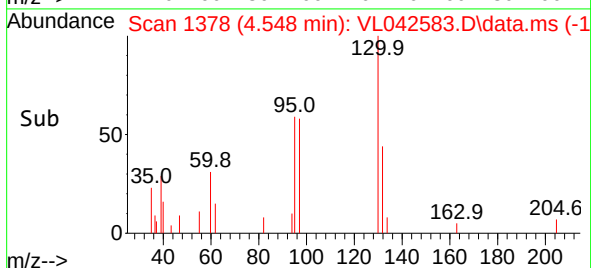
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

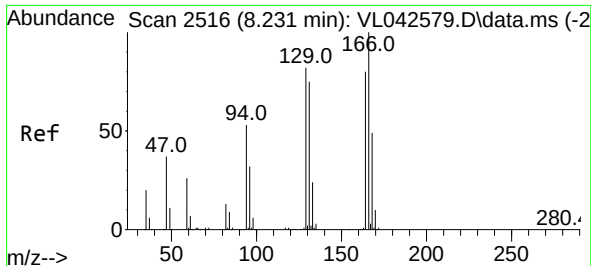


#38
Trichloroethene
Concen: 0.102 ppbv m
RT: 4.548 min Scan# 1378
Delta R.T. -0.003 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19



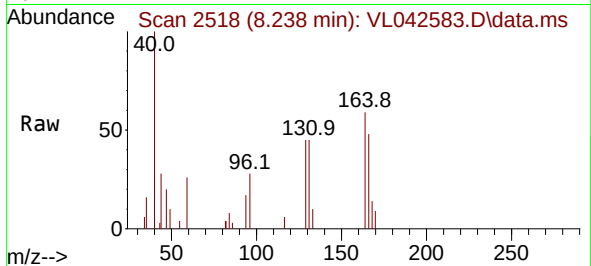
Tgt Ion:130 Resp: 1305
Ion Ratio Lower Upper
130 100
95 59.5 80.6 121.0#
132 43.5 71.8 107.6#
97 57.9 53.0 79.4





#52
Tetrachloroethene
Concen: 0.111 ppbv m
RT: 8.238 min Scan# 2516
Delta R.T. 0.006 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

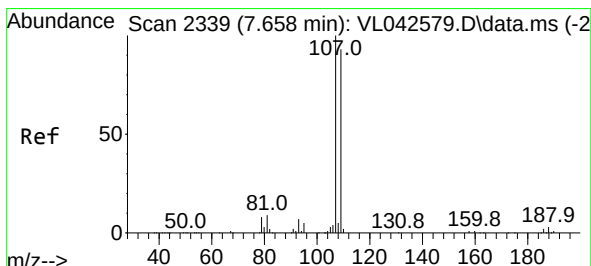
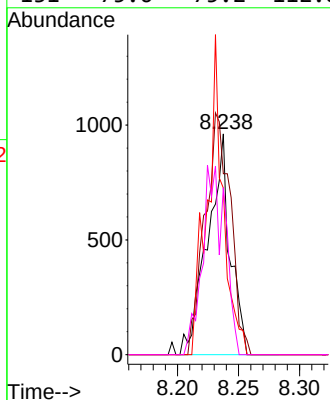
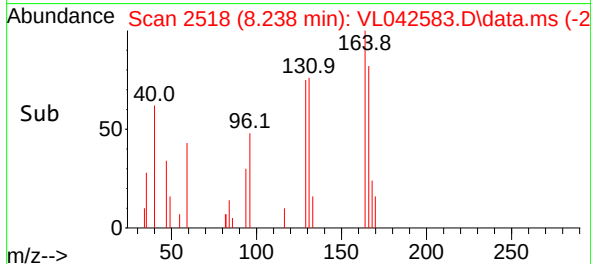
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion:164 Resp: 1230
Ion Ratio Lower Upper
164 100
166 81.9 100.0 150.0
129 75.5 82.2 123.4
131 75.6 75.2 112.8

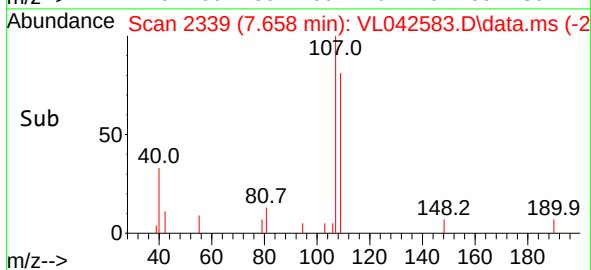
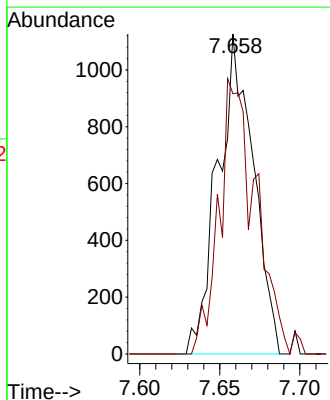
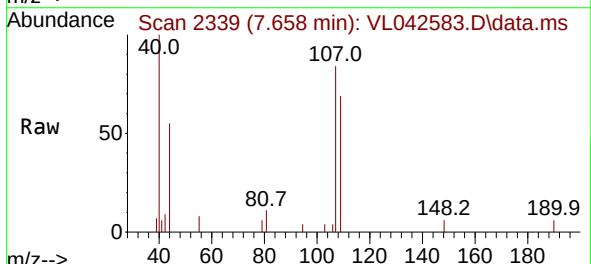
Manual Integrations
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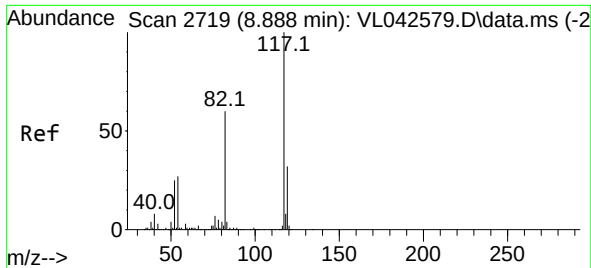
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#54
1,2-Dibromoethane
Concen: 0.103 ppbv m
RT: 7.658 min Scan# 2339
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion:107 Resp: 1737
Ion Ratio Lower Upper
107 100
109 81.3 74.3 111.5





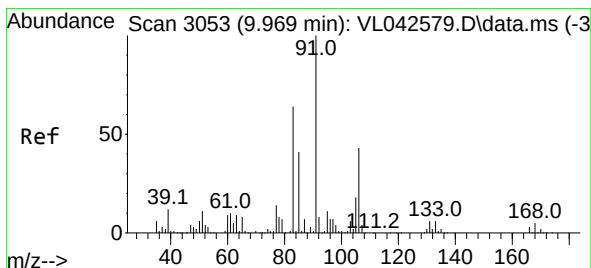
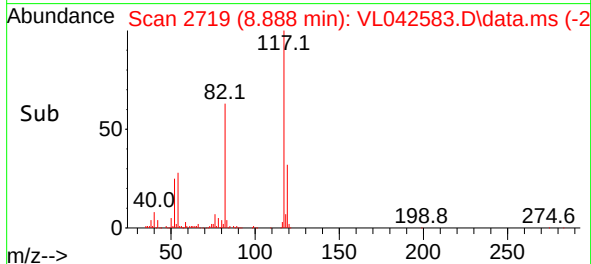
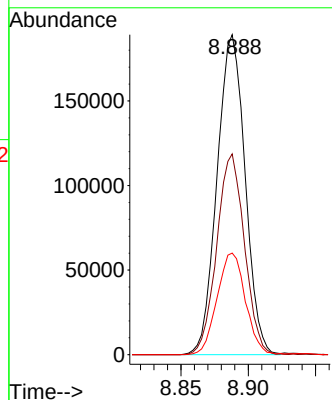
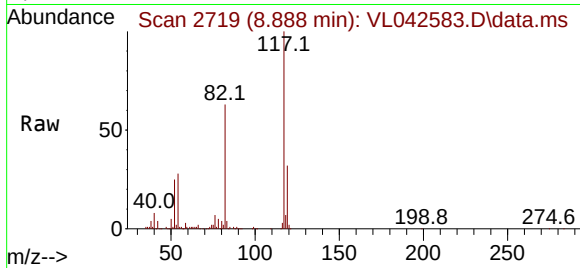
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion: 117 Resp: 27388
Ion Ratio Lower Upper
117 100
82 62.1 51.2 76.8
119 32.3 26.3 39.5

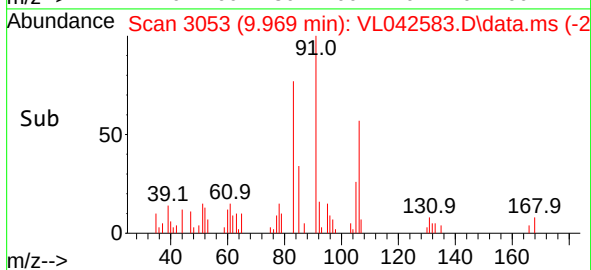
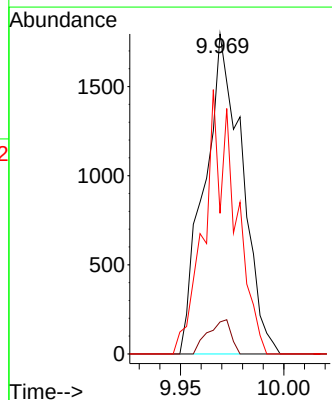
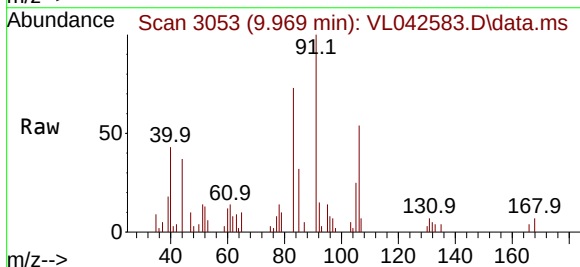
Manual Integrations
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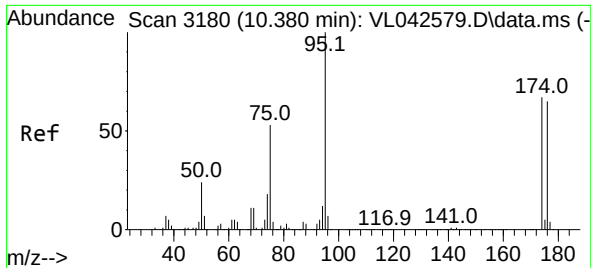
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#63
1,1,2,2-Tetrachloroethane
Concen: 0.098 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

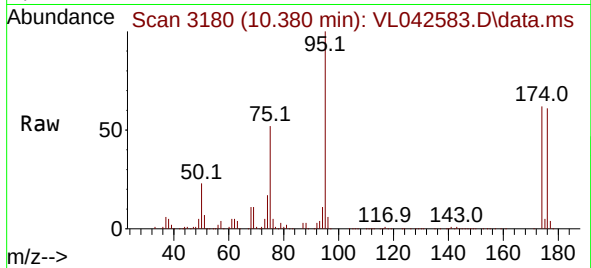
Tgt Ion: 83 Resp: 2267
Ion Ratio Lower Upper
83 100
131 6.6 4.8 14.4
85 68.0 32.5 97.4





#68
1-Bromo-4-Fluorobenzene
Concen: 10.018 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

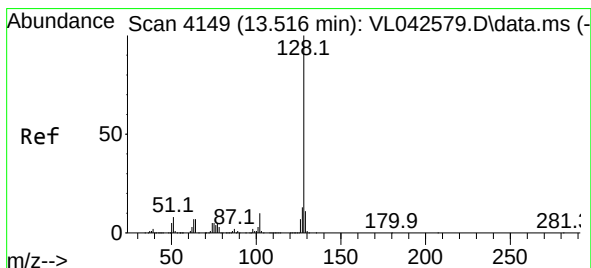
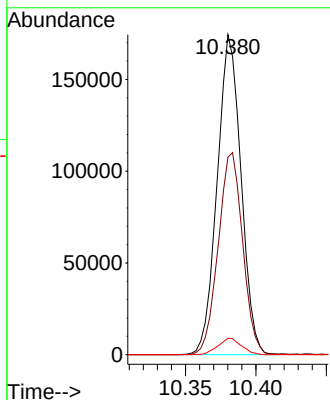
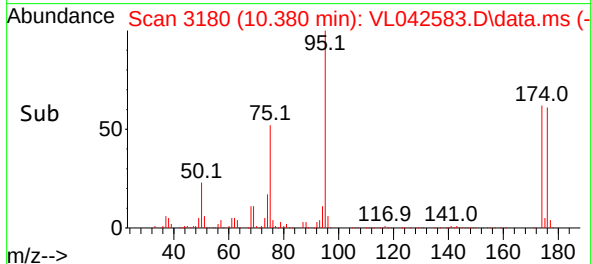
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1



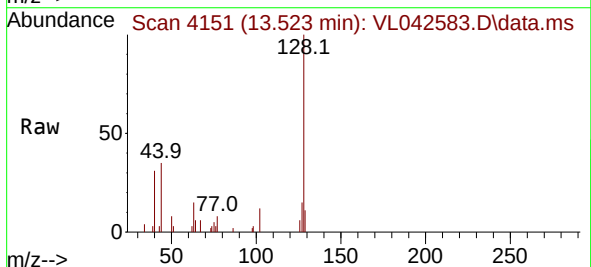
Tgt Ion: 95 Resp: 205672
Ion Ratio Lower Upper
95 100
174 64.7 53.1 79.7
175 5.0 4.2 6.2

Manual Integrations
APPROVED

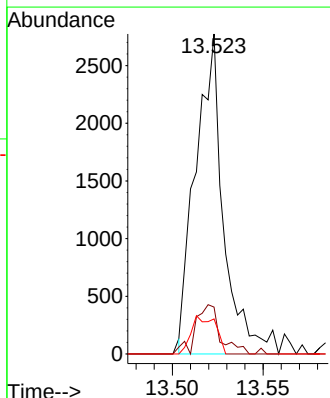
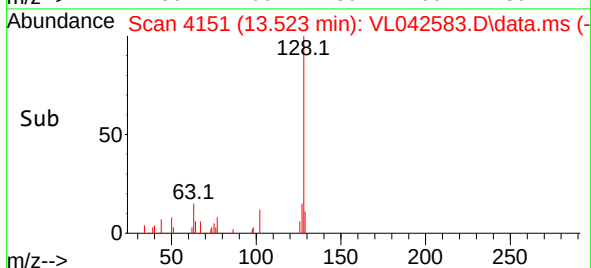
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#79
Naphthalene
Concen: 0.076 ppbv m
RT: 13.523 min Scan# 4151
Delta R.T. 0.006 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19



Tgt Ion:128 Resp: 2980
Ion Ratio Lower Upper
128 100
127 14.7 10.2 15.4
129 11.0 8.8 13.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042584.D
 Acq On : 29 May 2025 13:51
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:36:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103144	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	305114	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	273881	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	205981	10.033	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.577	62	209	0.041	ppbv #	77
32) 1,1,1-Trichloroethane	3.373	97	683m	0.034	ppbv	
35) Carbon Tetrachloride	3.764	117	623m	0.031	ppbv	
38) Trichloroethene	4.541	130	356m	0.028	ppbv	
52) Tetrachloroethene	8.228	164	321m	0.029	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	866	0.037	ppbv #	82

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

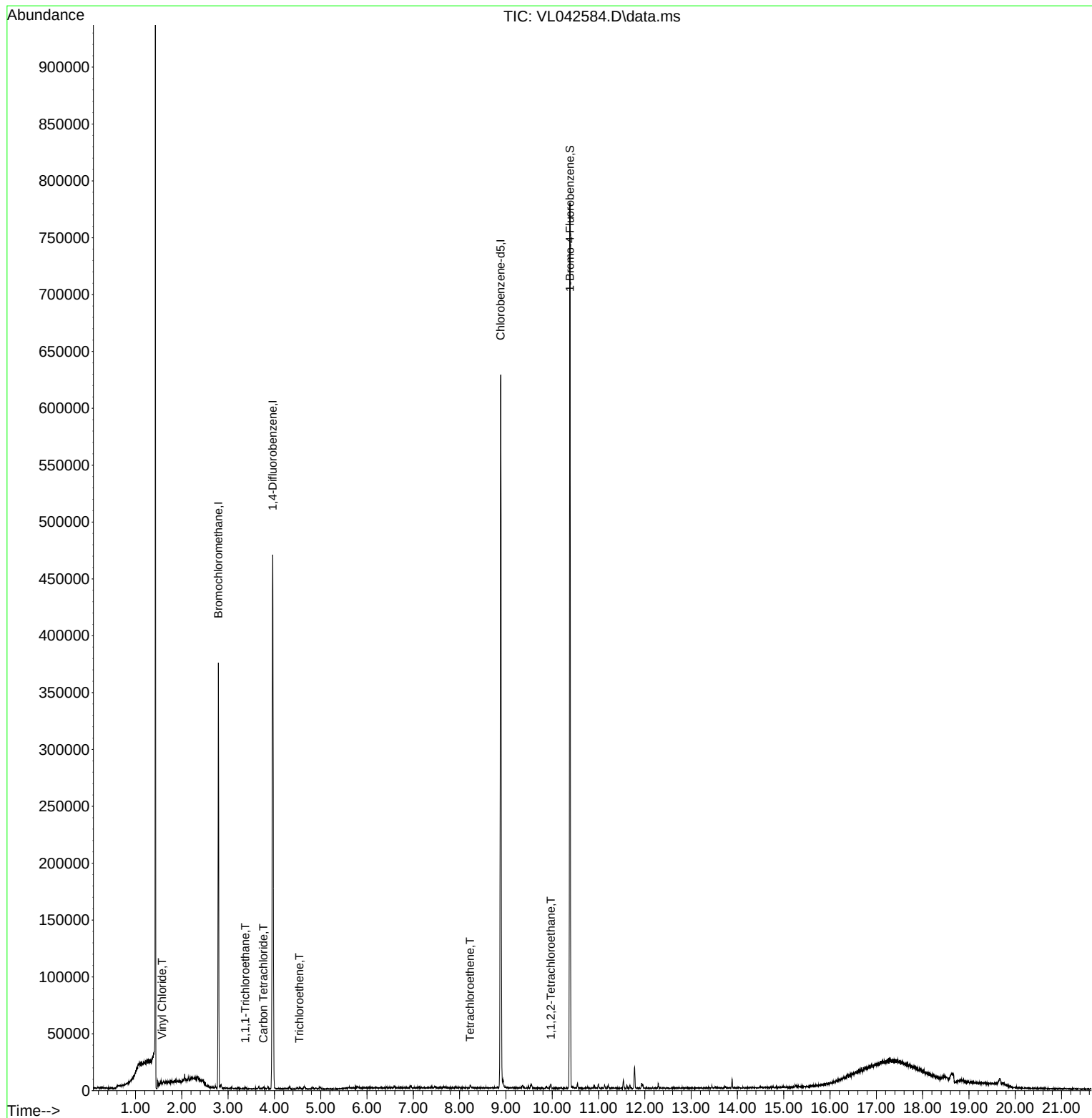
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042584.D
Acq On : 29 May 2025 13:51
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

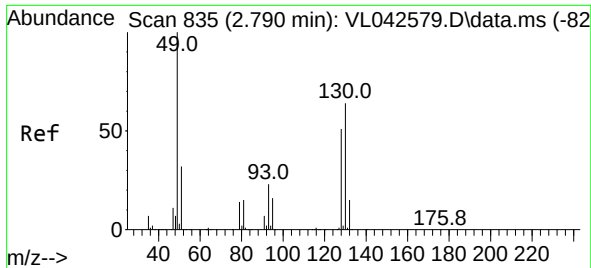
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

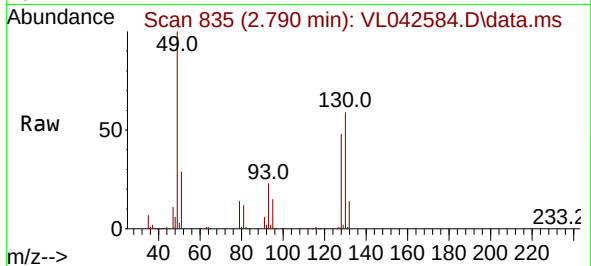
Quant Time: May 30 01:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

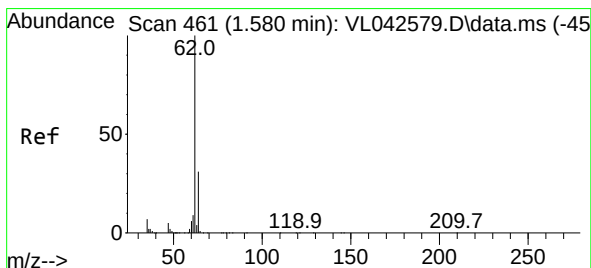
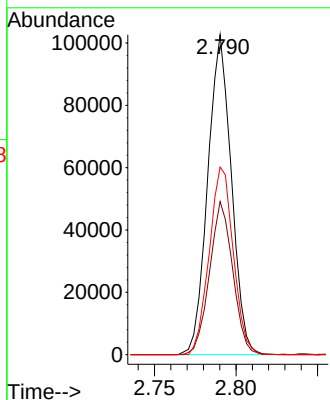
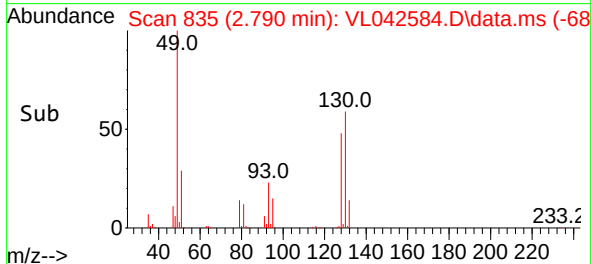
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



Tgt Ion: 49 Resp: 103144
Ion Ratio Lower Upper
49 100
128 47.0 24.2 72.6
130 60.0 30.4 91.2

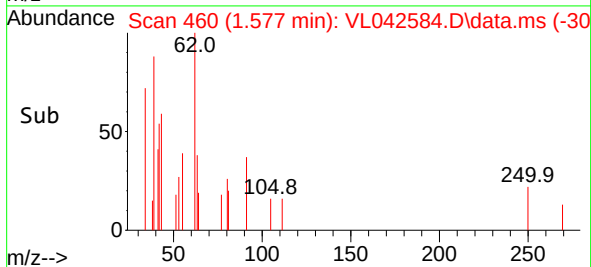
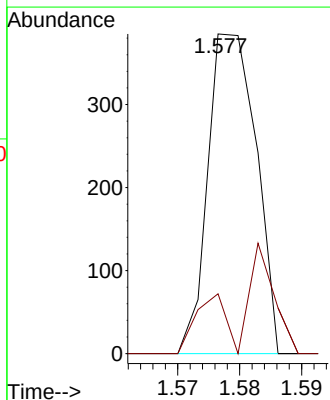
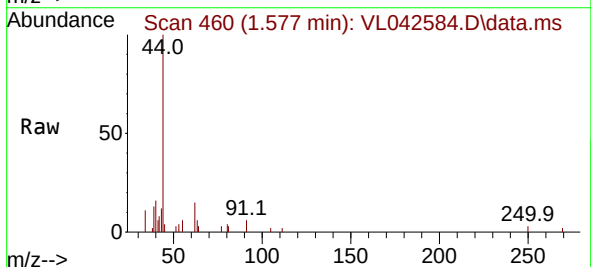
Manual Integrations
APPROVED

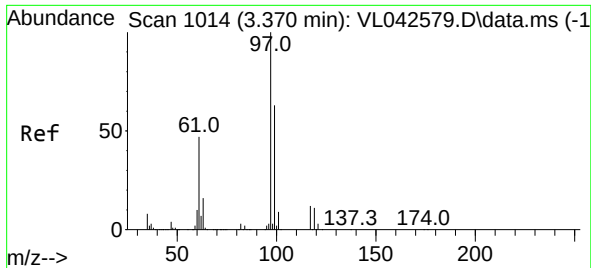
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#5
Vinyl Chloride
Concen: 0.041 ppbv
RT: 1.577 min Scan# 460
Delta R.T. -0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

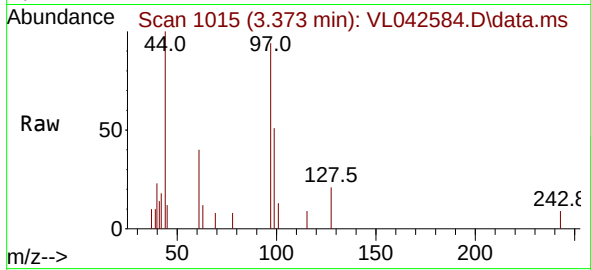
Tgt Ion: 62 Resp: 209
Ion Ratio Lower Upper
62 100
64 18.7 24.9 37.3#





#32
 1,1,1-Trichloroethane
 Concen: 0.034 ppbv m
 RT: 3.373 min Scan# 1014
 Delta R.T. 0.003 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

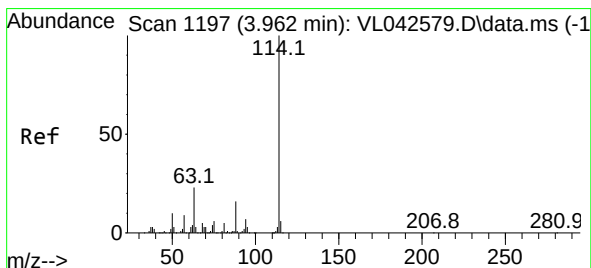
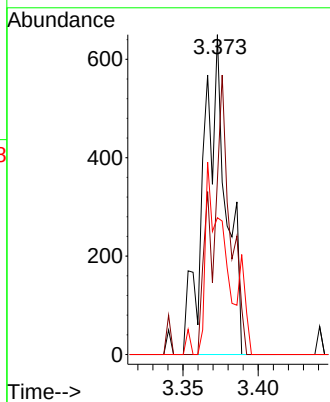
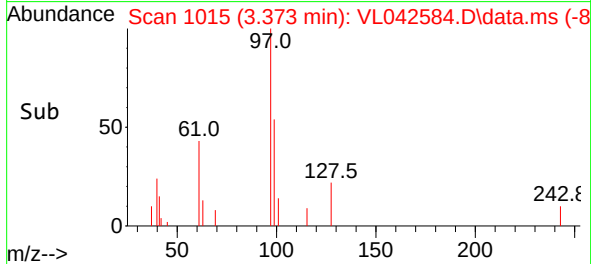
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03



Tgt Ion: 97 Resp: 683
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.0 76.6
 61 55.6 39.4 59.0

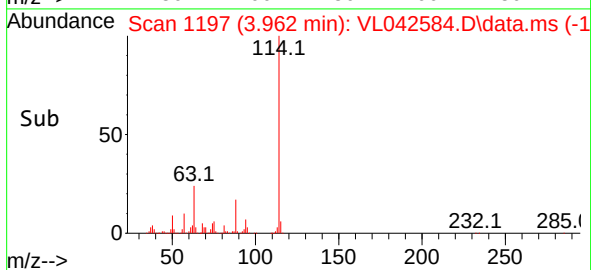
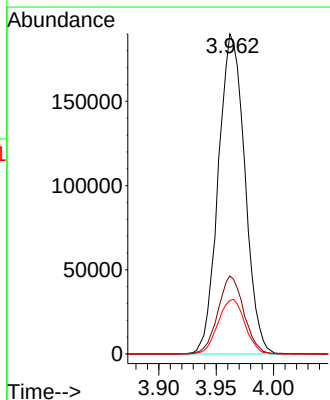
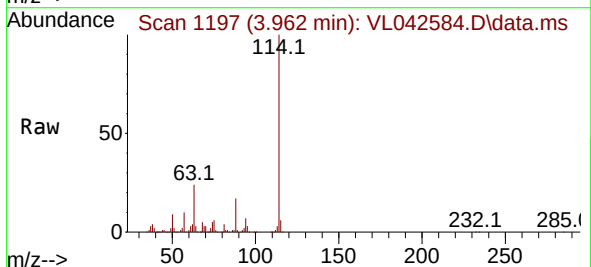
Manual Integrations
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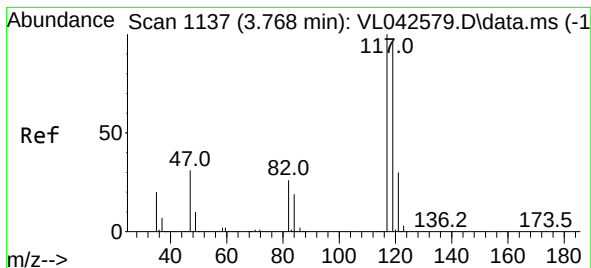
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. 0.000 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

Tgt Ion:114 Resp: 305114
 Ion Ratio Lower Upper
 114 100
 63 23.8 19.0 28.6
 88 17.2 13.6 20.4





#35

Carbon Tetrachloride

Concen: 0.031 ppbv m

RT: 3.764 min Scan# 1136

Delta R.T. -0.003 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

Instrument :

MSVOA_L

ClientSampleId :

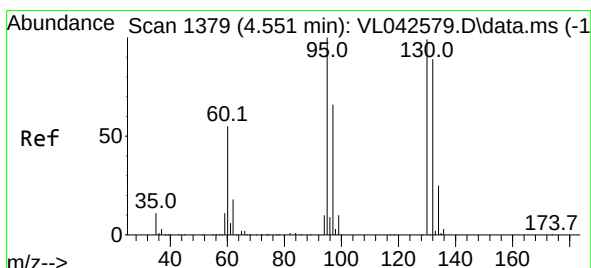
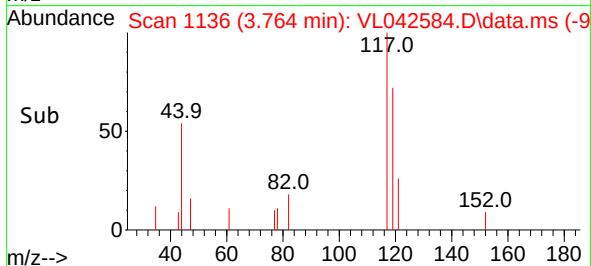
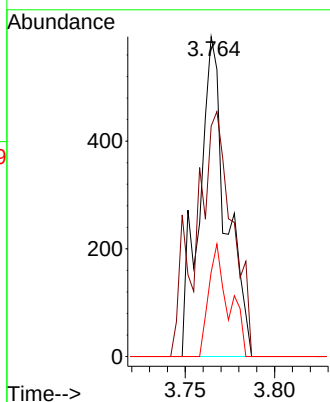
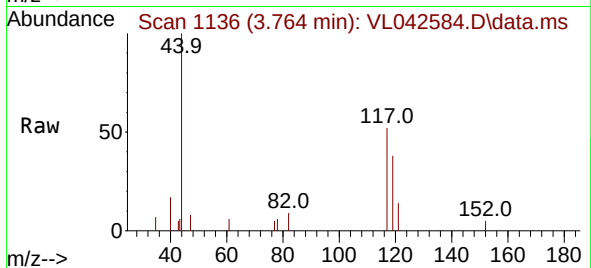
VSTDIC0.03

Tgt Ion:117	Resp:	62
Ion Ratio	Lower	Upper
117	100	
119	72.1	76.8 115.2
121	26.4	24.3 36.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#38

Trichloroethene

Concen: 0.028 ppbv m

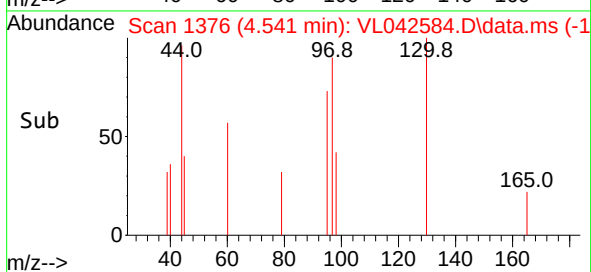
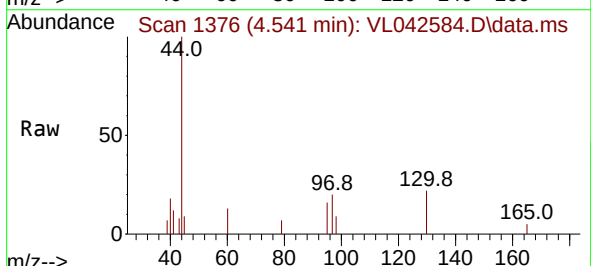
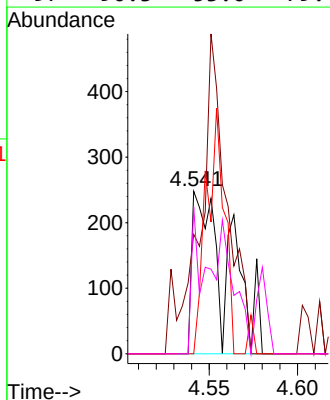
RT: 4.541 min Scan# 1376

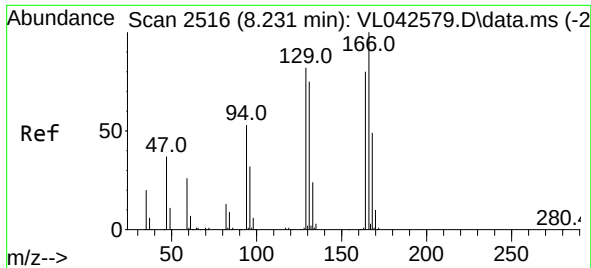
Delta R.T. -0.010 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

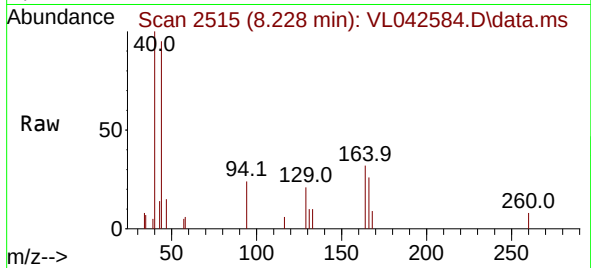
Tgt Ion:130	Resp:	356
Ion Ratio	Lower	Upper
130	100	
95	73.4	80.6 121.0#
132	0.0	71.8 107.6#
97	90.3	53.0 79.4#





#52
Tetrachloroethene
Concen: 0.029 ppbv m
RT: 8.228 min Scan# 2516
Delta R.T. -0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

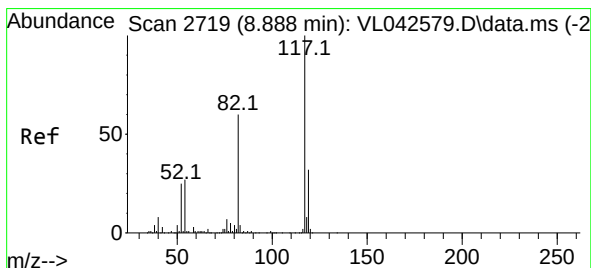
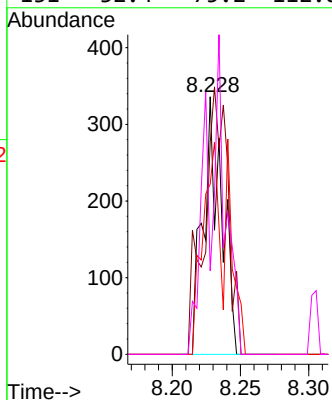
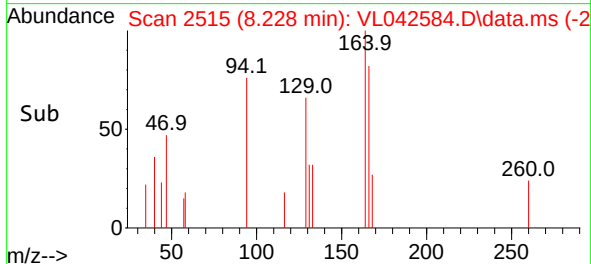
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



Tgt Ion:164 Resp: 321
Ion Ratio Lower Upper
164 100
166 82.1 100.0 150.0
129 66.1 82.2 123.4
131 32.4 75.2 112.8

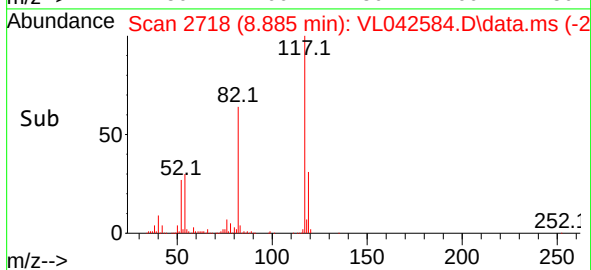
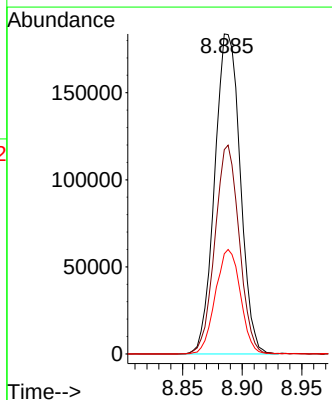
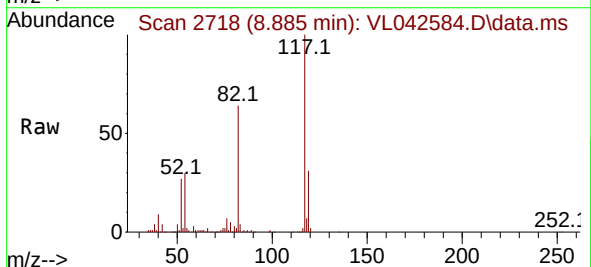
Manual Integrations
APPROVED

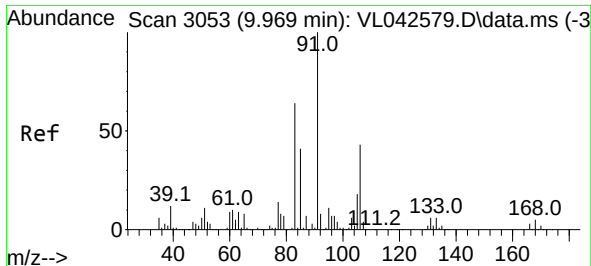
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

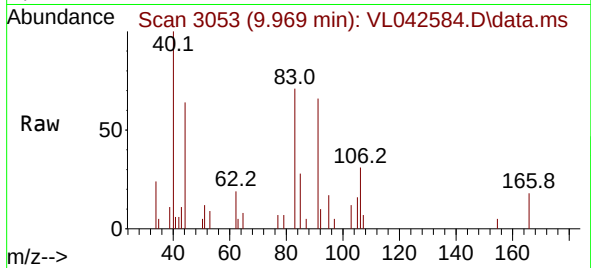
Tgt Ion:117 Resp: 273881
Ion Ratio Lower Upper
117 100
82 62.2 51.2 76.8
119 32.2 26.3 39.5





#63
1,1,2,2-Tetrachloroethane
Concen: 0.037 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.000 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

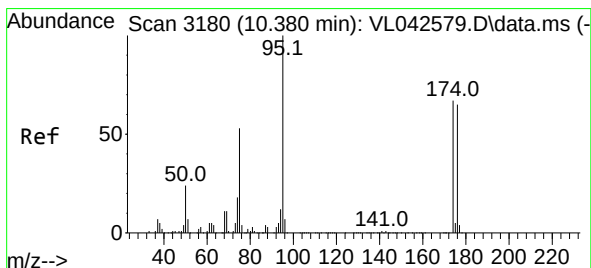
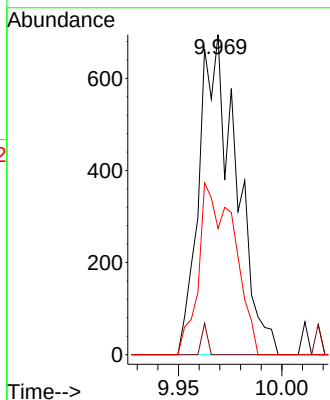
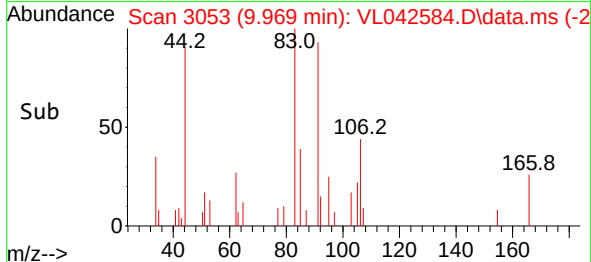
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



Tgt Ion: 83 Resp: 860
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.4
85 51.4 32.5 97.4

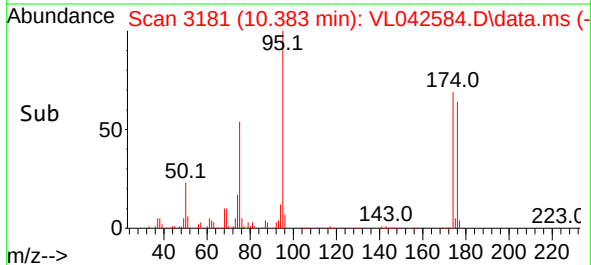
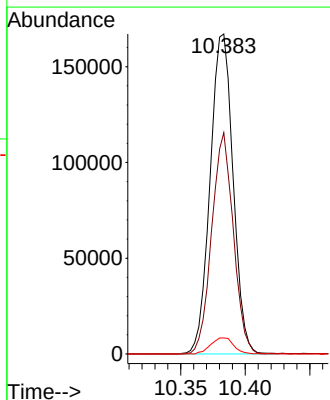
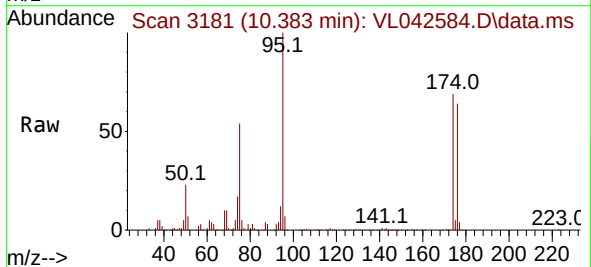
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.033 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion: 95 Resp: 205981
Ion Ratio Lower Upper
95 100
174 65.5 53.1 79.7
175 5.1 4.2 6.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042585.D
 Acq On : 29 May 2025 14:24
 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 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:21:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103906	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	301797	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	274912	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 207170 10.053 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	171529	13.432	ppbv	98
3) Chlorodifluoromethane	1.476	51	221334	12.584	ppbv	99
4) Chloromethane	1.534	50	67662	13.380	ppbv	99
5) Vinyl Chloride	1.580	62	63738	12.373	ppbv	98
6) Bromomethane	1.667	94	31141	12.420	ppbv	100
7) Chloroethane	1.706	64	25591	12.785	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	140345	13.189	ppbv	99
9) Propene	1.483	41	93357	13.181	ppbv	97
10) Heptane	4.988	43	263111	13.165	ppbv	100
11) Trichlorofluoromethane	1.877	101	162591	13.684	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	127489	13.664	ppbv	99
13) Ethanol	1.722	45	7390m	9.346	ppbv	
14) Bromoethene	1.784	108	47382	13.501	ppbv	99
15) Acetone	1.835	43	141460	11.302	ppbv	98
16) 1,3-Butadiene	1.609	39	74743	12.607	ppbv	100
17) tert-Butyl alcohol	2.042	59	169533	13.002	ppbv	100
18) 1,1-Dichloroethene	2.036	96	56808	13.085	ppbv	99
19) Isopropyl Alcohol	1.887	45	92408	12.351	ppbv	98
20) Methylene Chloride	2.062	84	48862	11.830	ppbv	97
21) Allyl Chloride	2.097	41	116771	13.223	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	65132	13.441	ppbv	97
23) Vinyl Acetate	2.466	43	246907	14.594	ppbv	99
24) 1,1-Dichloroethane	2.411	63	129870	13.067	ppbv	99
25) Ethyl Acetate	2.839	43	457327	13.352	ppbv	99
26) Hexane	2.829	57	200386	12.876	ppbv	99
27) Carbon Disulfide	2.152	76	162143	13.571	ppbv	96
28) Methyl tert-Butyl Ether	2.441	73	79625	12.608	ppbv	100
29) Chloroform	2.852	83	269752	13.328	ppbv	98
30) Cyclohexane	3.861	84	170261	13.196	ppbv	99
31) cis-1,2-Dichloroethene	2.722	61	192562	13.526	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	276026	13.591	ppbv	99
34) 2-Butanone	2.560	43	294628	13.689	ppbv	99
35) Carbon Tetrachloride	3.768	117	277042	13.903	ppbv	98
36) Benzene	3.661	78	404641	13.615	ppbv	99
37) 1,2-Dichloroethane	3.221	62	208081	14.088	ppbv	100
38) Trichloroethene	4.551	130	168824	13.263	ppbv	91
39) 1,2-Dichloropropane	4.318	63	149476	13.606	ppbv	98
40) 1,4-Dioxane	4.590	88	65543	14.035	ppbv #	98
41) Tetrahydrofuran	3.056	42	173023	13.734	ppbv	99
42) Bromodichloromethane	4.493	83	298835	14.245	ppbv	96
43) Methyl Methacrylate	4.887	69	161641	14.033	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	676574	13.319	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	189257	14.338	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042585.D
 Acq On : 29 May 2025 14:24
 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 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:21:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

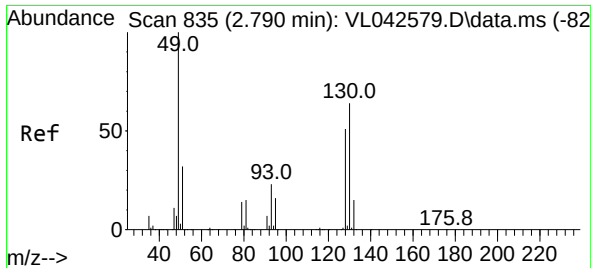
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	236653	14.313	ppbv	94
47) 1,1,2-Trichloroethane	6.590	97	153862	13.524	ppbv	93
48) Dibromochloromethane	7.393	129	258374	14.187	ppbv	100
49) Bromoform	9.490	173	226719	14.427	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	416119	13.882	ppbv	100
51) 2-Hexanone	7.441	43	339220	14.328	ppbv	98
52) Tetrachloroethene	8.231	164	145485	13.098	ppbv	99
53) Toluene	6.939	91	470632	13.702	ppbv	100
54) 1,2-Dibromoethane	7.661	107	232051	13.758	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.930	131	191145	13.828	ppbv	99
57) Chlorobenzene	8.930	112	356655	13.361	ppbv	98
58) Ethyl Benzene	9.361	91	637083	13.662	ppbv	99
59) m/p-Xylene	9.561	91	996602m	27.151	ppbv	
60) o-Xylene	9.969	91	490036	13.389	ppbv	98
61) Styrene	9.875	104	245714	14.199	ppbv	100
62) Isopropylbenzene	10.545	105	722166	13.356	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	299633	12.875	ppbv	99
64) n-propylbenzene	10.995	120	195952	13.519	ppbv	97
65) tert-Butylbenzene	11.536	119	634159	12.924	ppbv	99
66) Benzyl Chloride	11.620	91	90617	14.320	ppbv	99
67) sec-Butylbenzene	11.772	105	892638	12.939	ppbv	100
69) p-Isopropyltoluene	11.930	119	763150	13.210	ppbv	100
70) n-Butylbenzene	12.286	91	764173	13.401	ppbv	99
71) 2-Chlorotoluene	10.908	91	552265	13.390	ppbv	100
72) 4-Ethyltoluene	11.131	105	616187	13.504	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	509801	13.498	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	538704	12.854	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	347478	13.203	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	350757	13.363	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	326960	12.800	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	244375	11.563	ppbv	98
79) Naphthalene	13.516	128	563437	14.318	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	306586	17.196	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	299869	13.598	ppbv	99

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

Manual Integrations APPROVED

Quant Time: May 30 01:21:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration





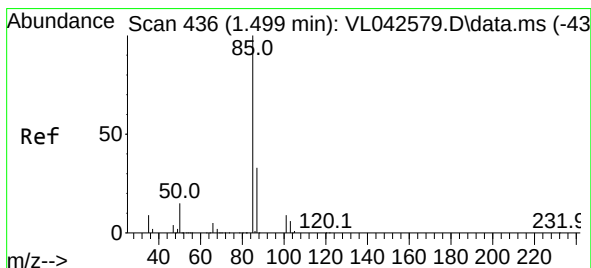
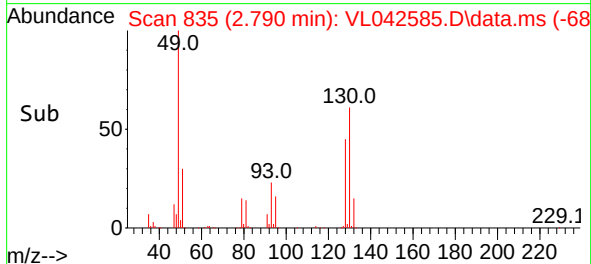
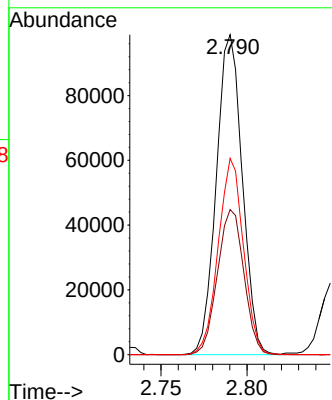
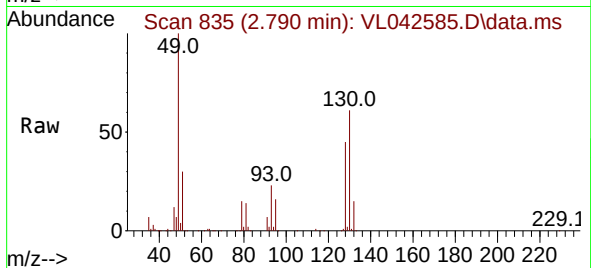
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 49 Resp: 103900
Ion Ratio Lower Upper
49 100
128 46.1 24.2 72.6
130 59.5 30.4 91.2

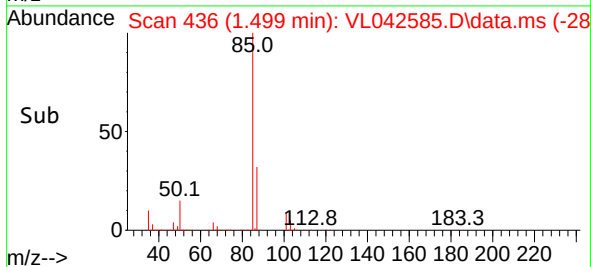
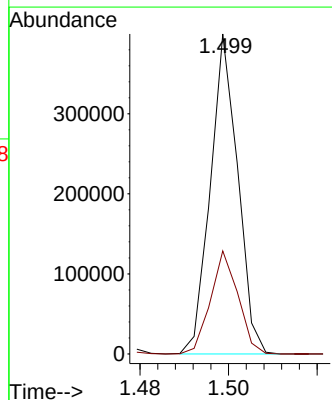
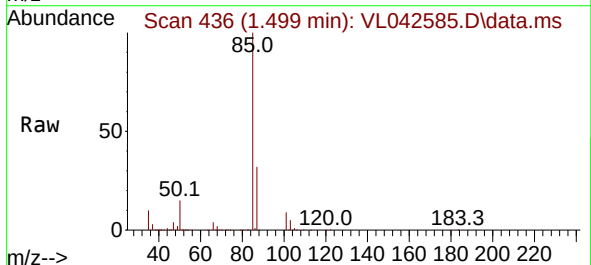
Manual Integrations
APPROVED

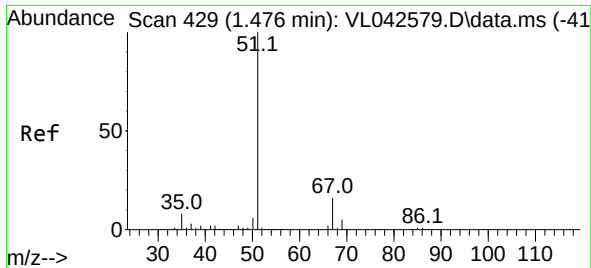
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#2
Dichlorodifluoromethane
Concen: 13.432 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 85 Resp: 171529
Ion Ratio Lower Upper
85 100
87 32.2 26.6 39.8





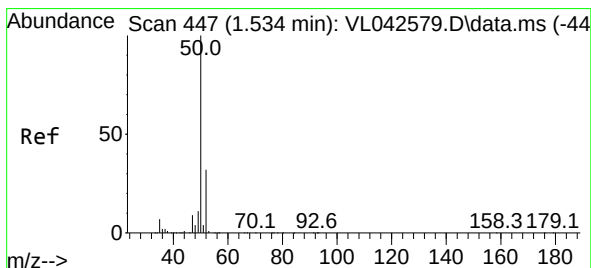
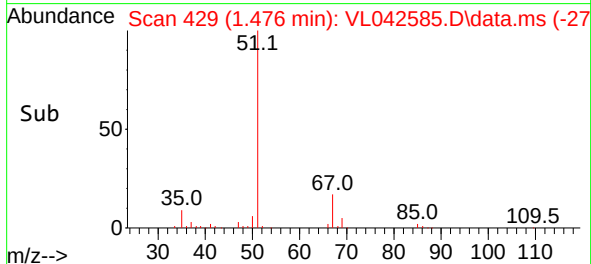
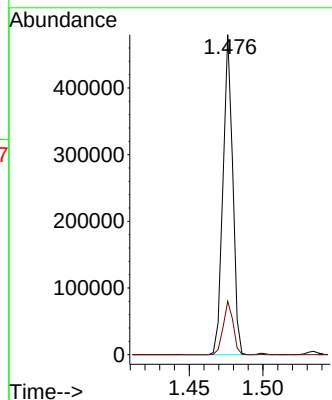
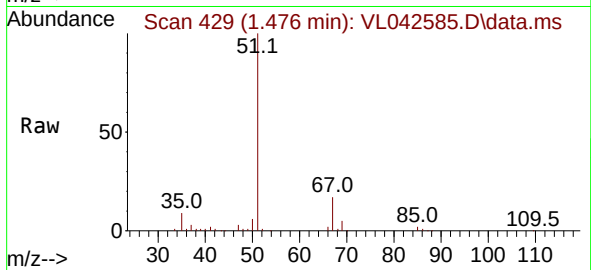
#3
Chlorodifluoromethane
Concen: 12.584 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 51 Resp: 221334
Ion Ratio Lower Upper
51 100
67 17.1 13.4 20.2

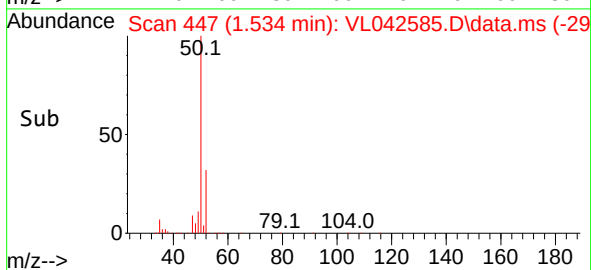
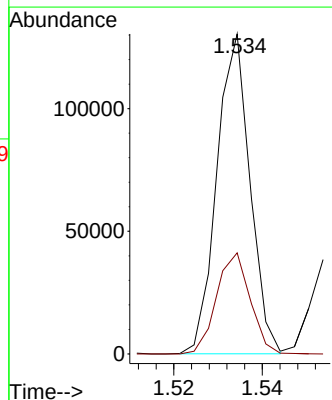
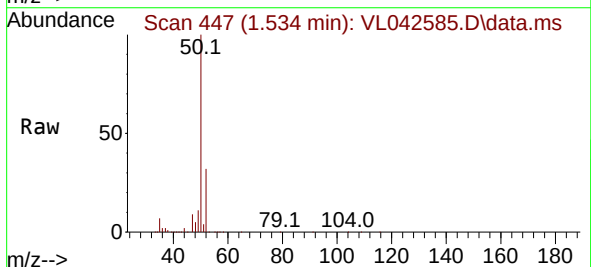
Manual Integrations
APPROVED

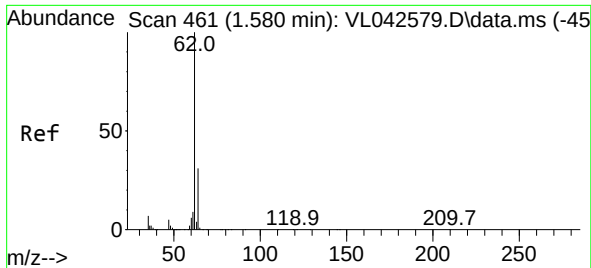
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#4
Chloromethane
Concen: 13.380 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 50 Resp: 67662
Ion Ratio Lower Upper
50 100
52 31.7 25.8 38.6





#5
 Vinyl Chloride
 Concen: 12.373 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

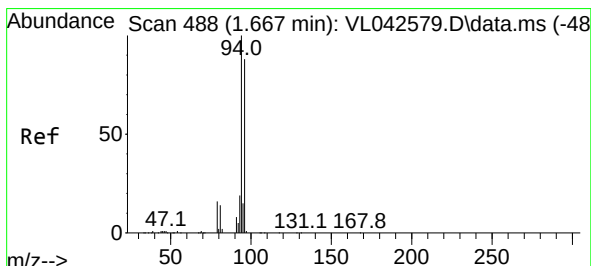
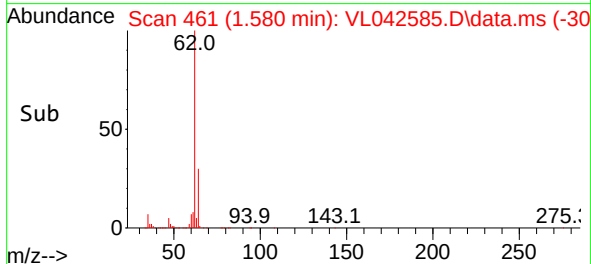
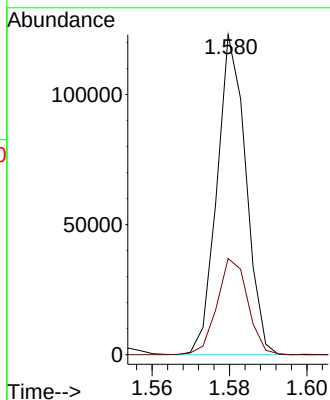
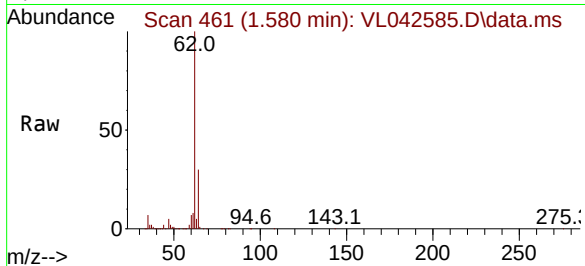
VSTDIC015

Tgt Ion: 62 Resp: 63738
 Ion Ratio Lower Upper
 62 100
 64 30.0 24.9 37.3

Manual Integrations

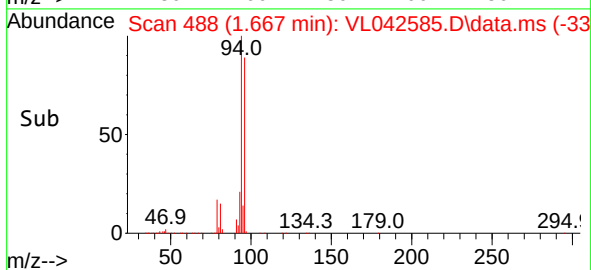
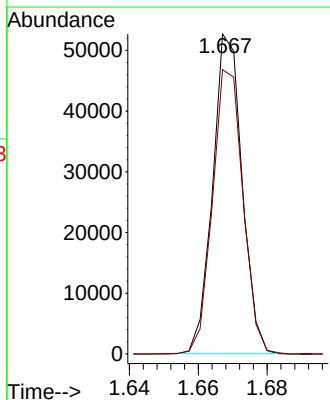
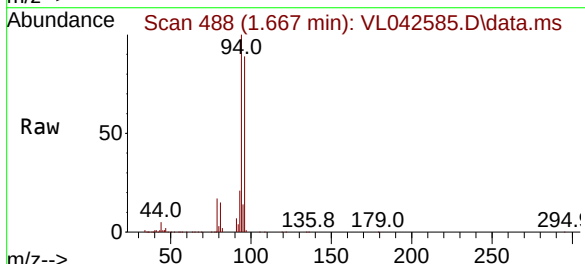
APPROVED

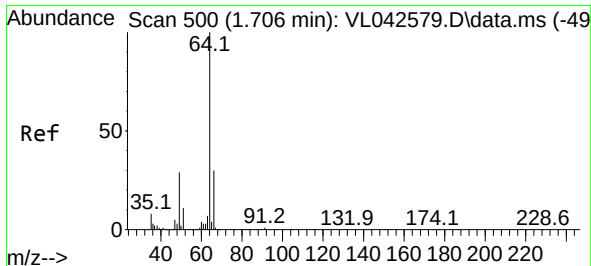
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#6
 Bromomethane
 Concen: 12.420 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

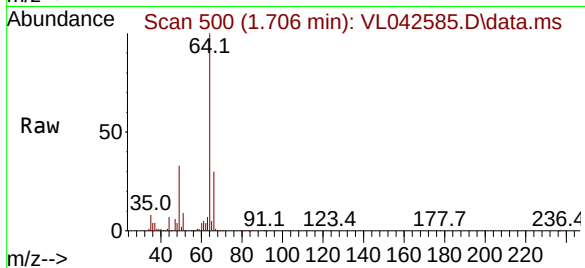
Tgt Ion: 94 Resp: 31141
 Ion Ratio Lower Upper
 94 100
 96 88.7 70.7 106.1





#7
Chloroethane
Concen: 12.785 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

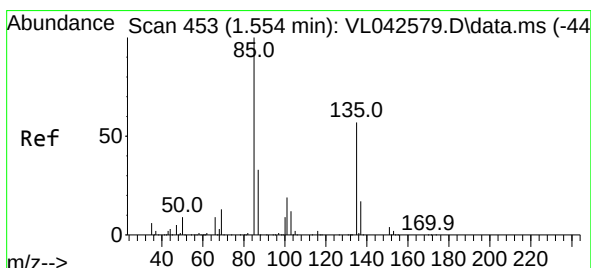
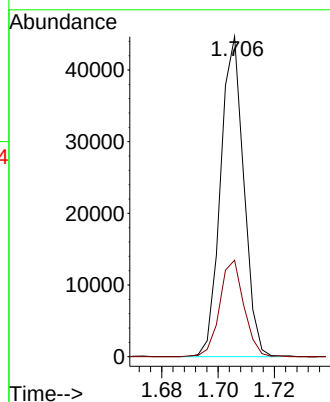
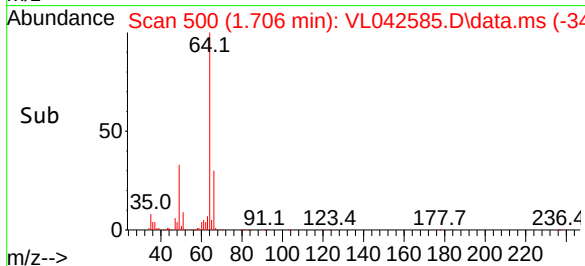
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 64 Resp: 2559
Ion Ratio Lower Upper
64 100
66 30.2 24.3 36.5

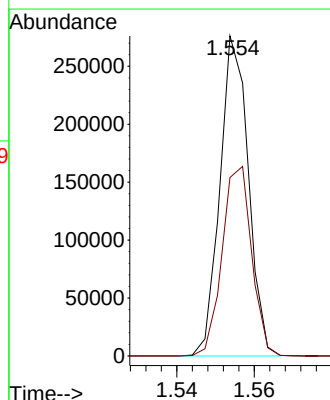
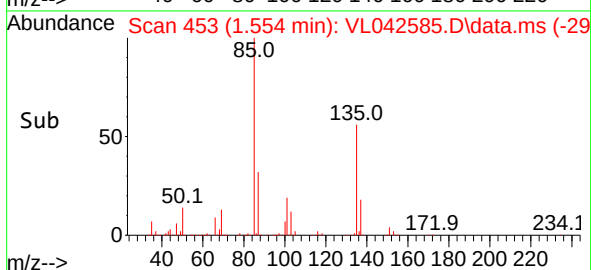
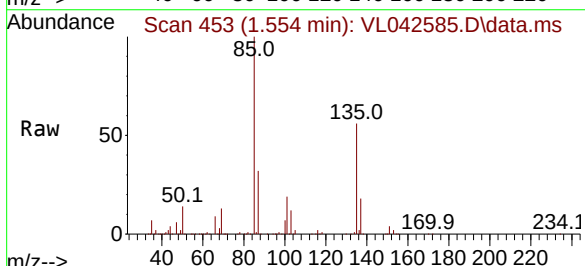
Manual Integrations
APPROVED

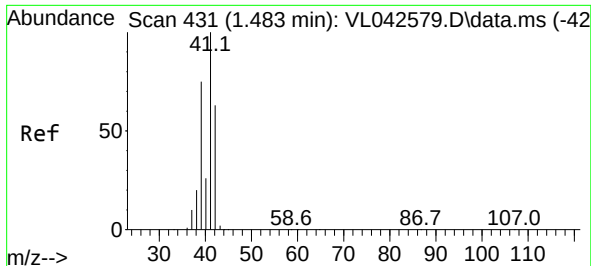
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#8
Dichlorotetrafluoroethane
Concen: 13.189 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 85 Resp: 140345
Ion Ratio Lower Upper
85 100
135 61.7 50.2 75.4





#9

Propene

Concen: 13.181 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 41 Resp: 9335

Ion Ratio Lower Upper

41 100

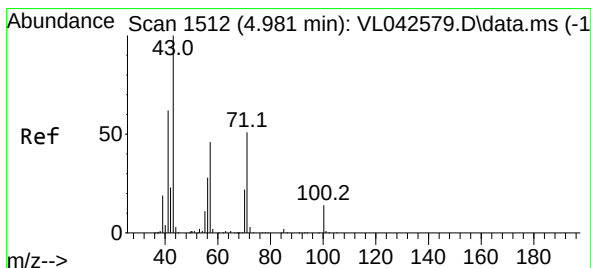
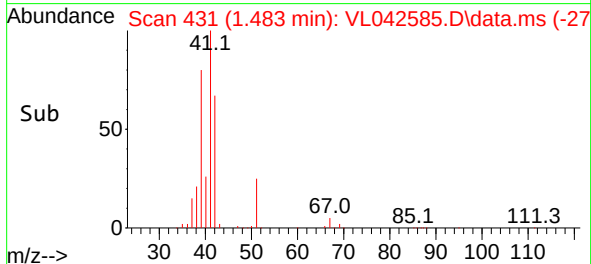
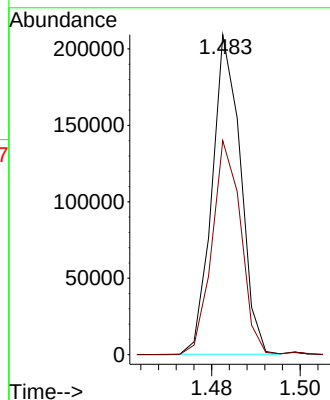
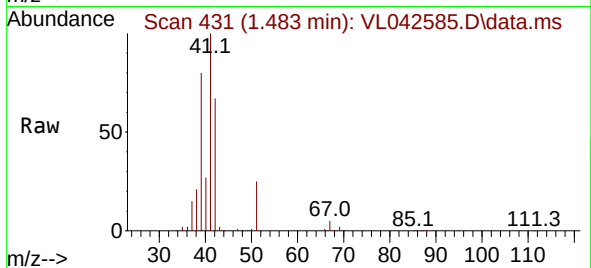
42 68.6 53.3 79.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#10

Heptane

Concen: 13.165 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.006 min

Lab File: VL042585.D

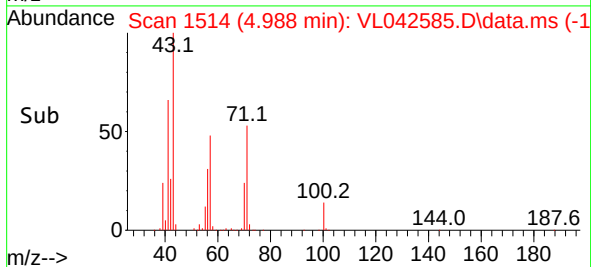
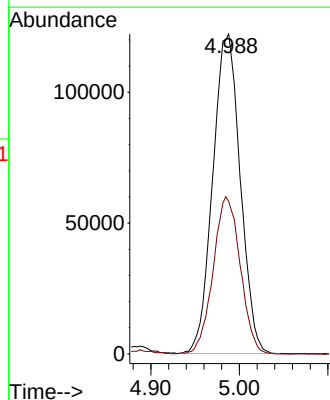
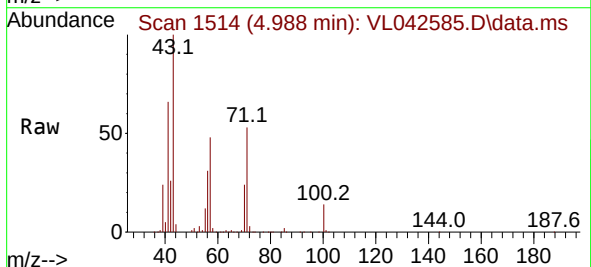
Acq: 29 May 2025 14:24

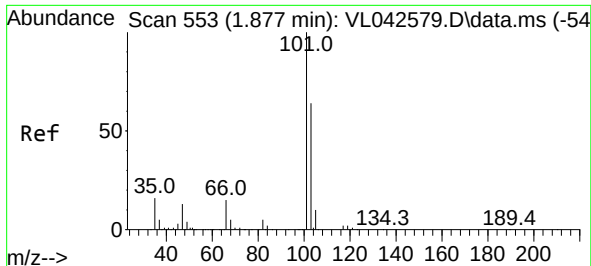
Tgt Ion: 43 Resp: 263111

Ion Ratio Lower Upper

43 100

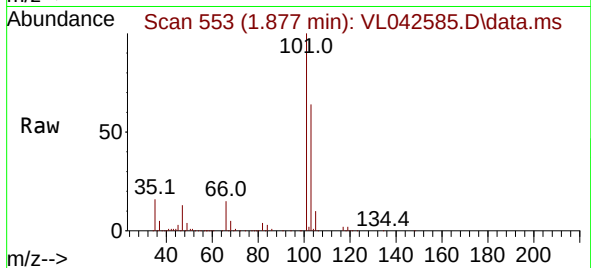
57 48.6 38.9 58.3





#11
Trichlorofluoromethane
Concen: 13.684 ppbv
RT: 1.877 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

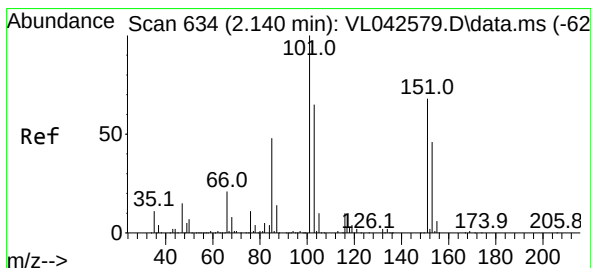
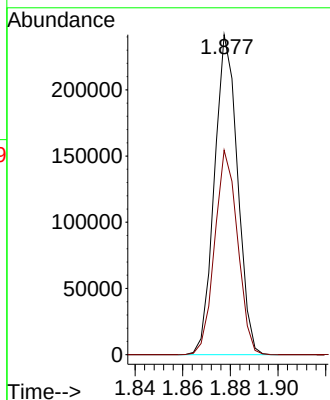
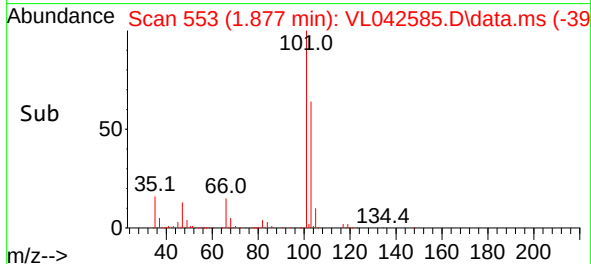
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



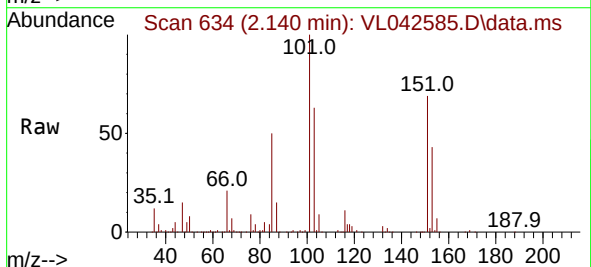
Tgt Ion:101 Resp: 162591
Ion Ratio Lower Upper
101 100
103 63.9 51.5 77.3

Manual Integrations
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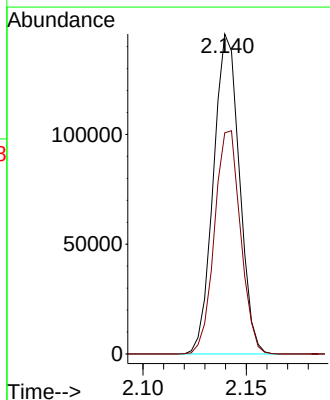
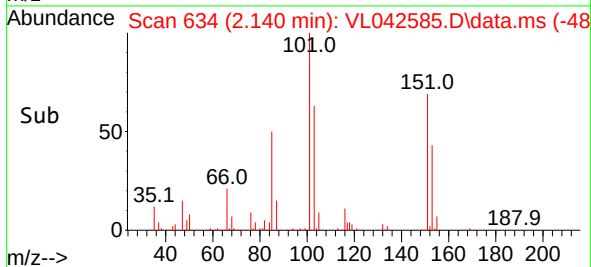
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

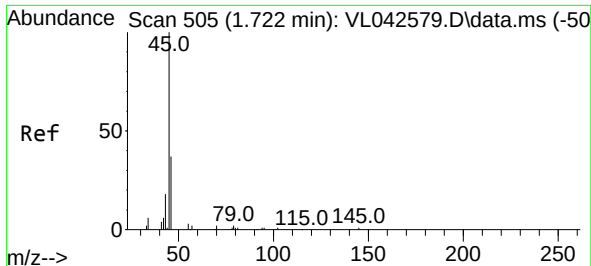


#12
1,1,2-Trichlorotrifluoroethane
Concen: 13.664 ppbv
RT: 2.140 min Scan# 634
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24



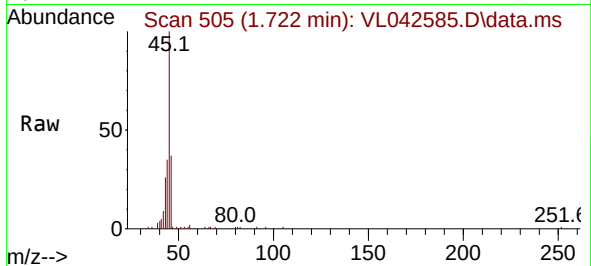
Tgt Ion:101 Resp: 127489
Ion Ratio Lower Upper
101 100
151 70.0 55.3 82.9





#13
Ethanol
Concen: 9.346 ppbv m
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

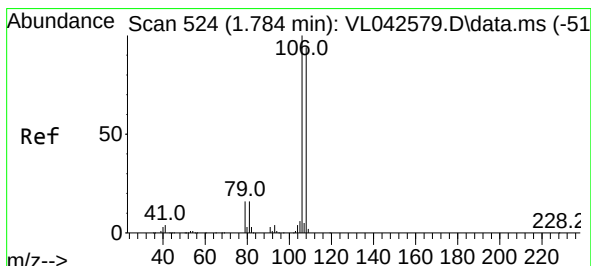
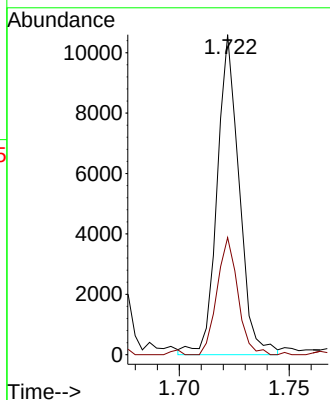
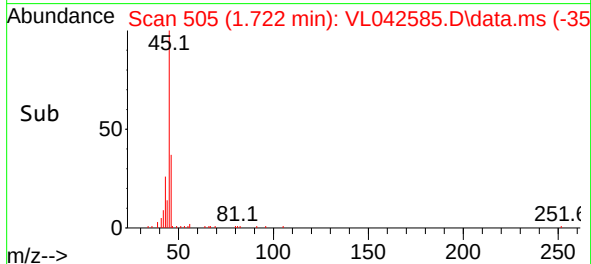
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



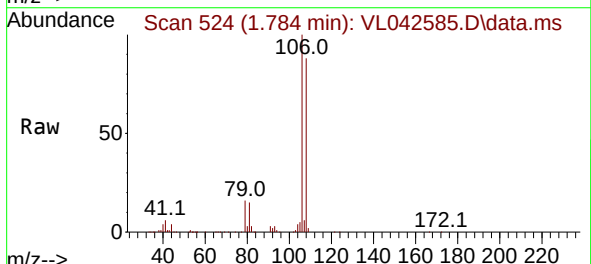
Tgt Ion: 45 Resp: 7390
Ion Ratio Lower Upper
45 100
46 35.3 14.5 58.1

Manual Integrations
APPROVED

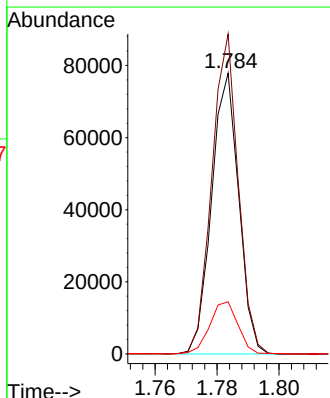
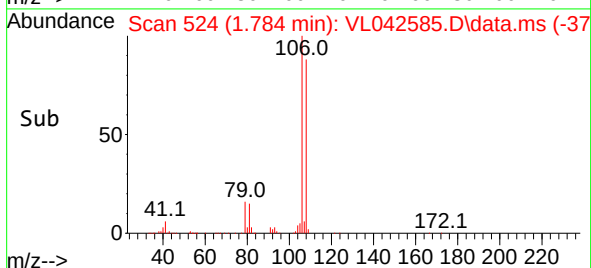
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

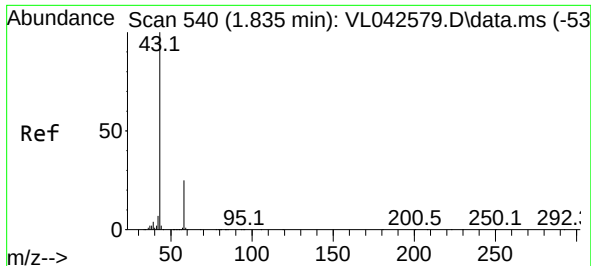


#14
Bromoethene
Concen: 13.501 ppbv
RT: 1.784 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24



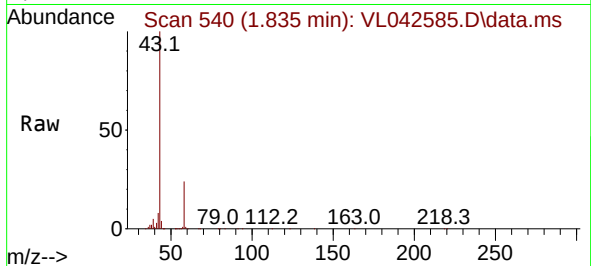
Tgt Ion:108 Resp: 47382
Ion Ratio Lower Upper
108 100
106 110.7 87.9 131.9
79 19.8 15.6 23.4





#15
Acetone
Concen: 11.302 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

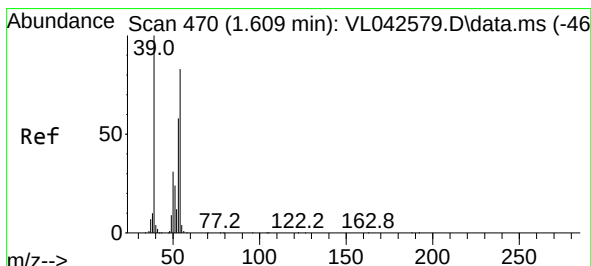
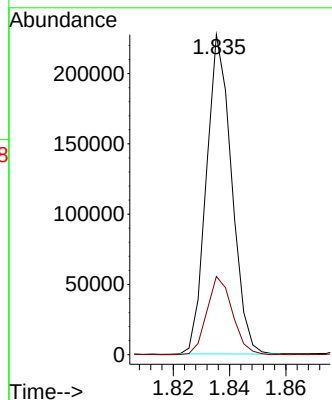
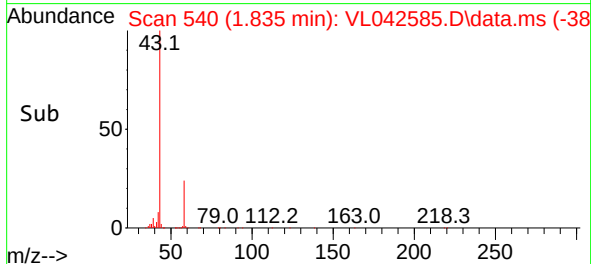
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



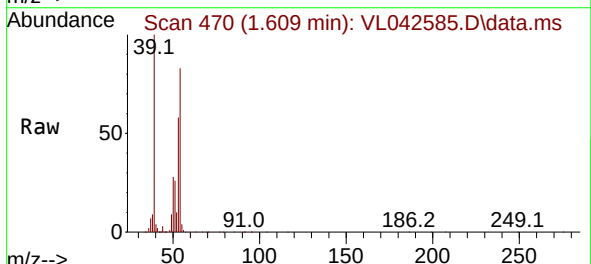
Tgt Ion: 43 Resp: 141460
Ion Ratio Lower Upper
43 100
58 25.0 21.0 31.4

Manual Integrations
APPROVED

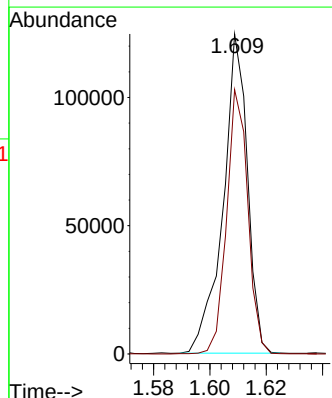
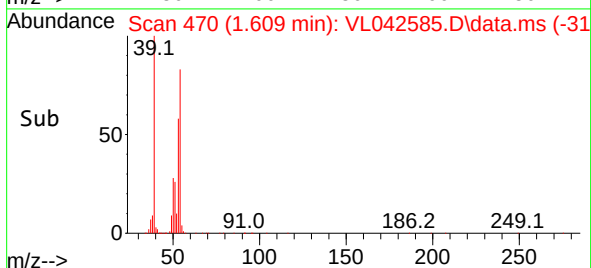
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

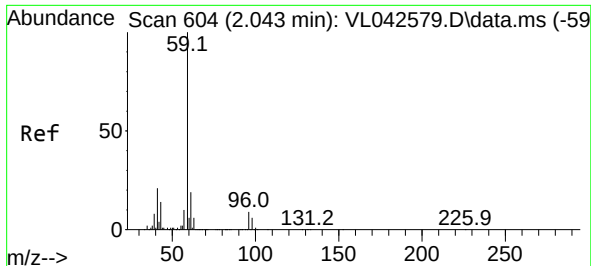


#16
1,3-Butadiene
Concen: 12.607 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24



Tgt Ion: 39 Resp: 74743
Ion Ratio Lower Upper
39 100
54 72.1 57.9 86.9





#17

tert-Butyl alcohol

Concen: 13.002 ppbv

RT: 2.042 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 59 Resp: 16953

Ion Ratio Lower Upper

59 100

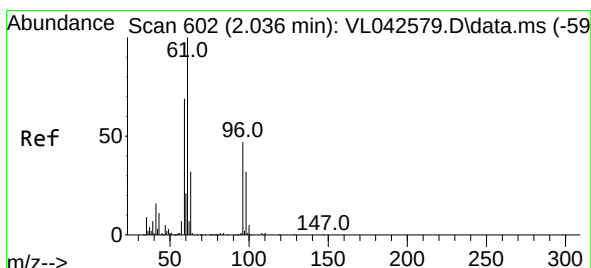
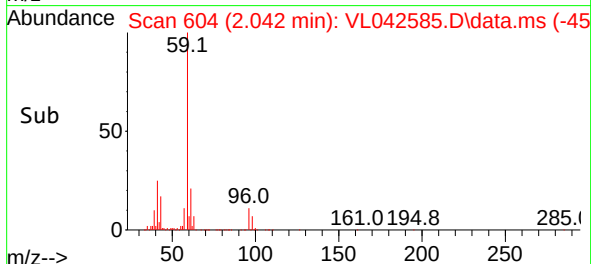
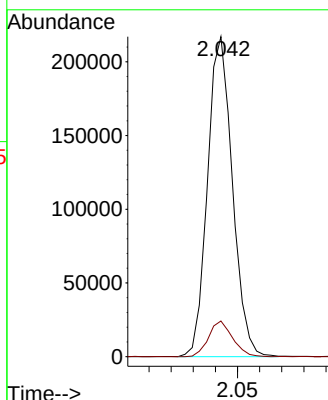
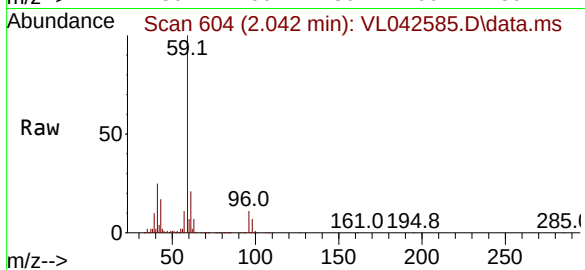
57 10.8 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#18

1,1-Dichloroethene

Concen: 13.085 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

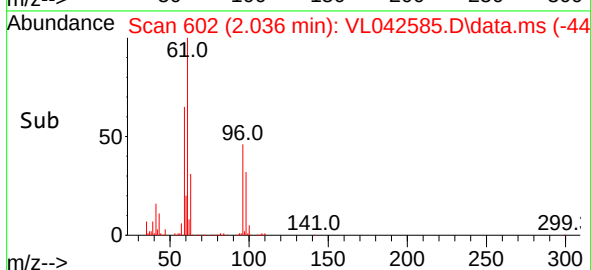
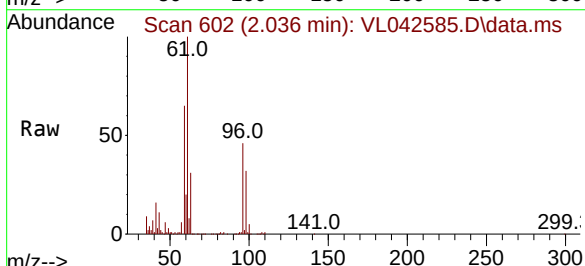
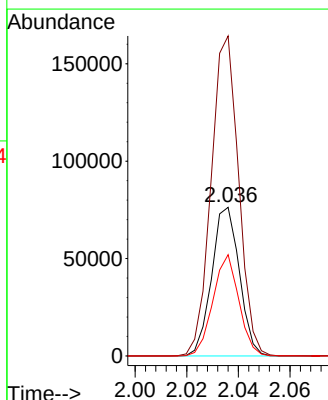
Tgt Ion: 96 Resp: 56808

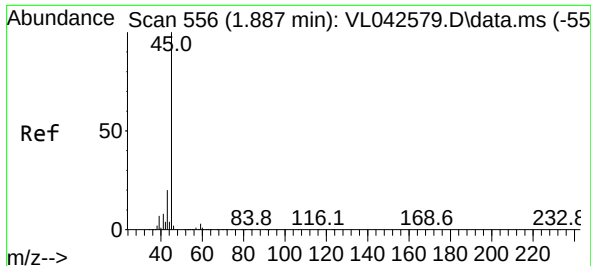
Ion Ratio Lower Upper

96 100

61 215.1 171.1 256.7

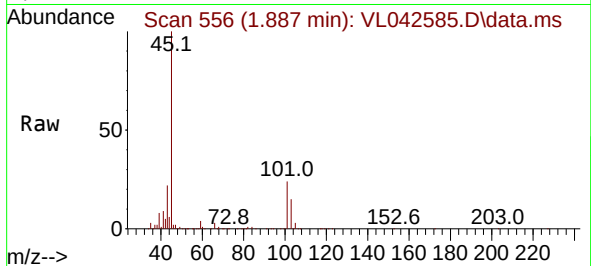
98 68.1 54.4 81.6





#19
Isopropyl Alcohol
Concen: 12.351 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

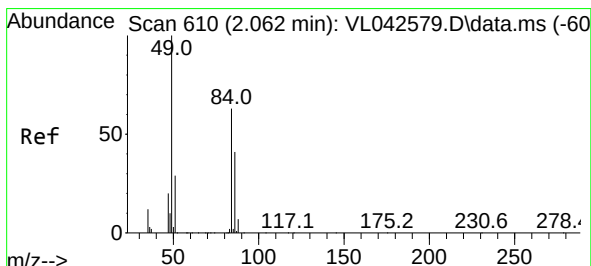
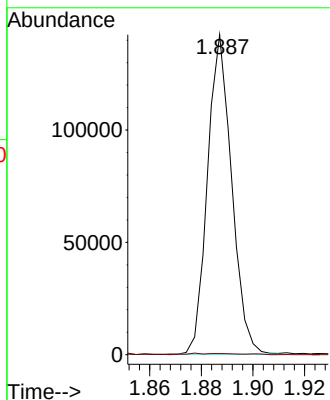
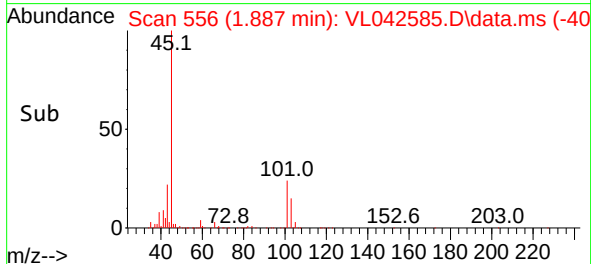
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



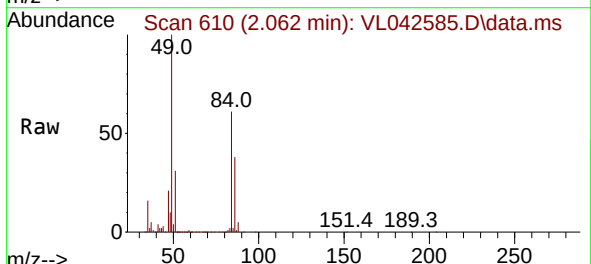
Tgt Ion: 45 Resp: 92408
Ion Ratio Lower Upper
45 100
58 38.2 29.4 44.2

Manual Integrations
APPROVED

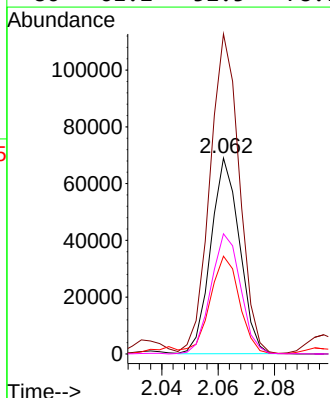
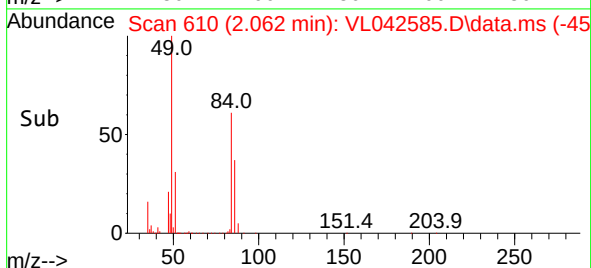
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

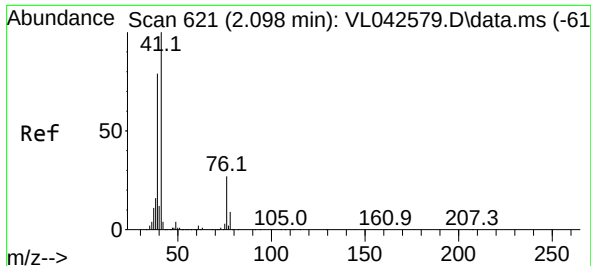


#20
Methylene Chloride
Concen: 11.830 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24



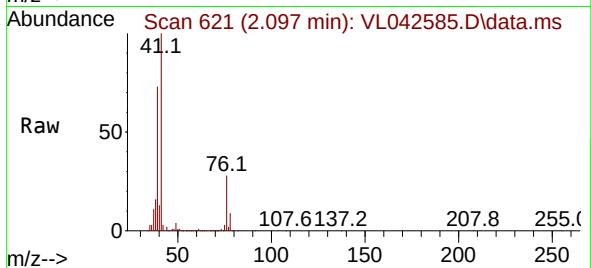
Tgt Ion: 84 Resp: 48862
Ion Ratio Lower Upper
84 100
49 163.3 128.8 193.2
51 49.6 38.6 57.8
86 61.2 52.5 78.7





#21
 Allyl Chloride
 Concen: 13.223 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

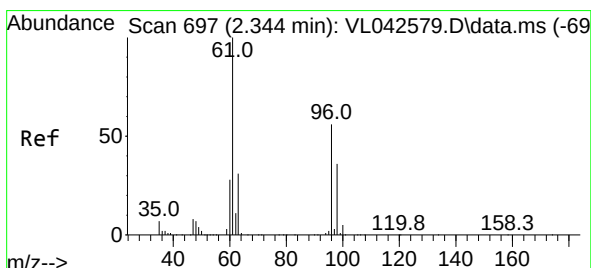
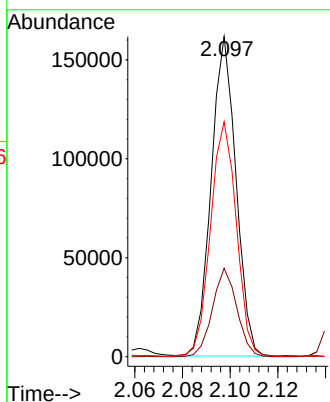
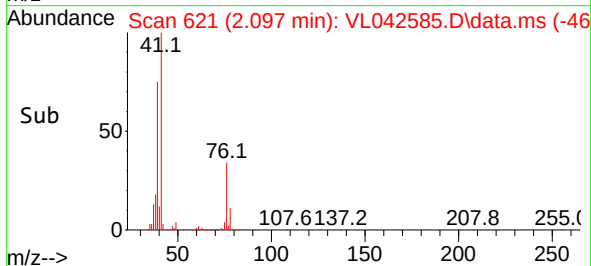
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015



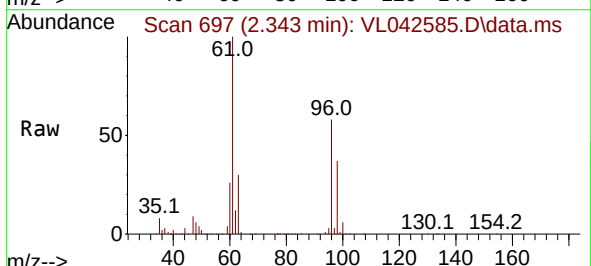
Tgt Ion: 41 Resp: 11677
 Ion Ratio Lower Upper
 41 100
 76 27.2 21.2 31.8
 39 76.1 60.9 91.3

Manual Integrations
 APPROVED

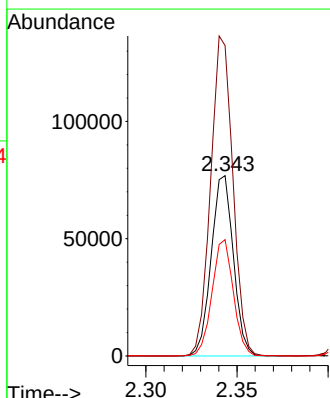
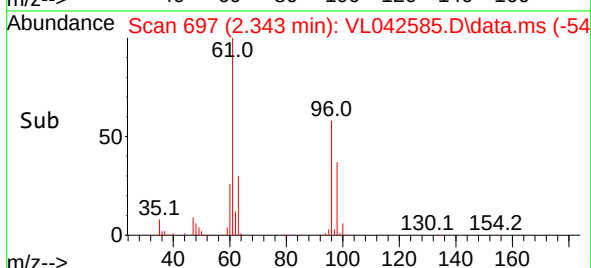
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

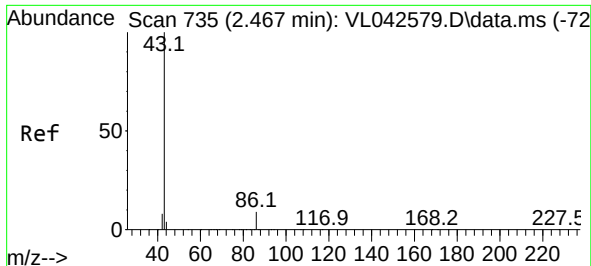


#22
 trans-1,2-Dichloroethene
 Concen: 13.441 ppbv
 RT: 2.343 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24



Tgt Ion: 96 Resp: 65132
 Ion Ratio Lower Upper
 96 100
 61 172.1 142.6 214.0
 98 64.3 51.0 76.4





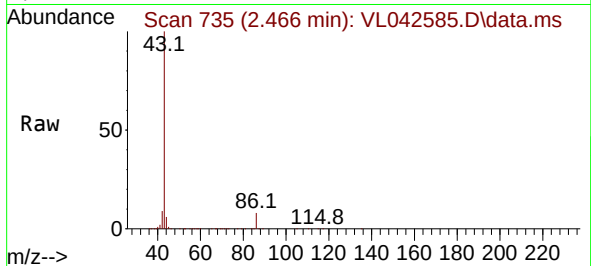
#23
 Vinyl Acetate
 Concen: 14.594 ppbv
 RT: 2.466 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

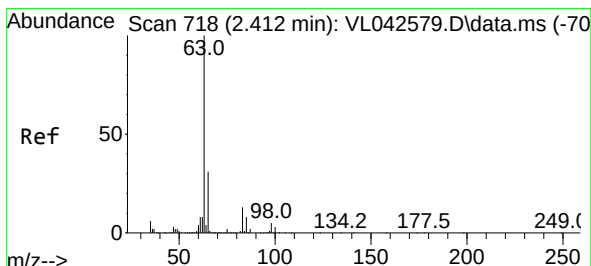
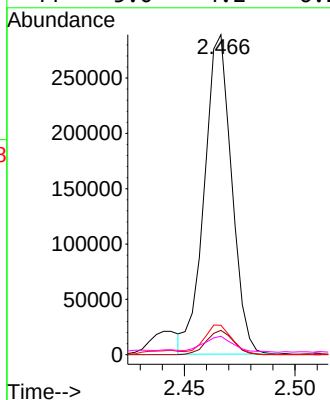
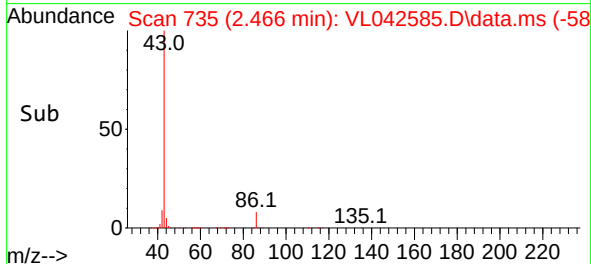


Tgt Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.6	9.8
42	9.2	7.0	10.4
44	5.0	4.2	6.2

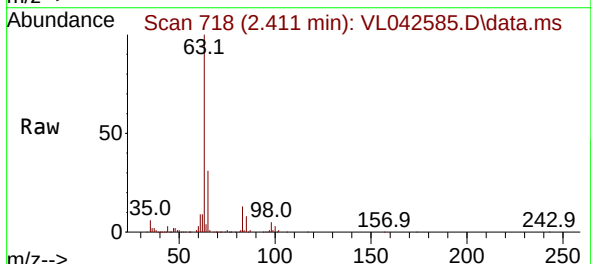
Manual Integrations

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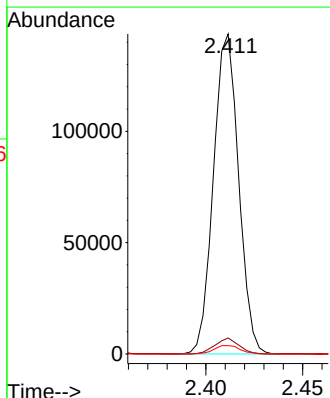
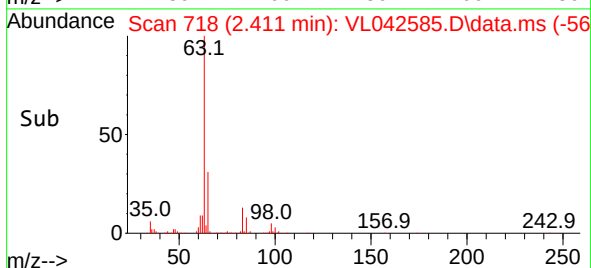
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

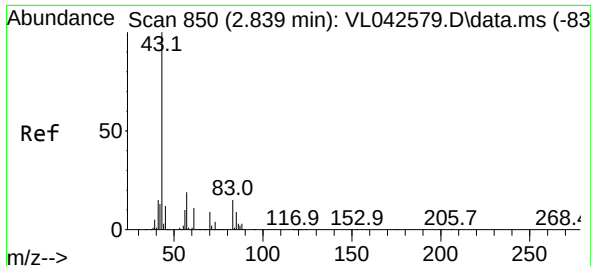


#24
 1,1-Dichloroethane
 Concen: 13.067 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24



Tgt Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.4	7.1
100	2.6	1.4	4.0





#25

Ethyl Acetate

Concen: 13.352 ppbv

RT: 2.839 min Scan# 850

Delta R.T. -0.000 min

Lab File: VL042585.D

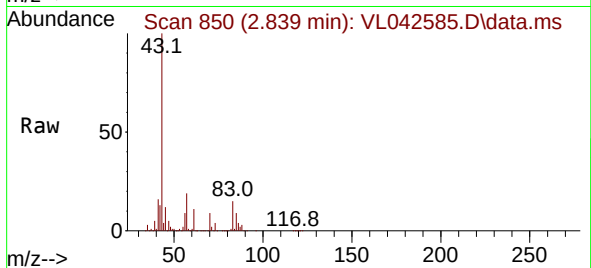
Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015



Tgt Ion: 43 Resp: 45732

Ion Ratio Lower Upper

43 100

45 9.8 8.2 12.2

61 8.7 7.1 10.7

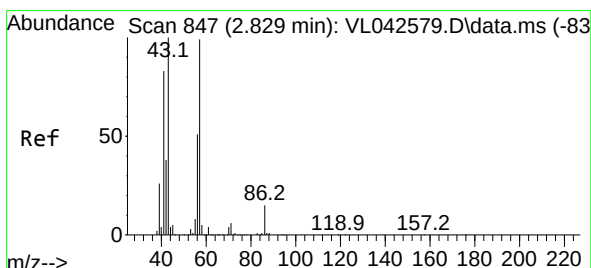
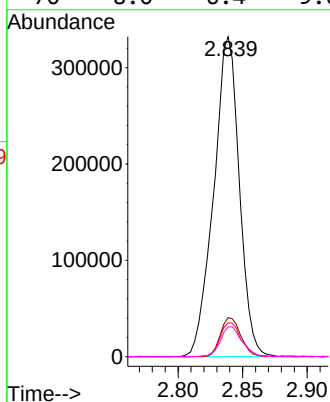
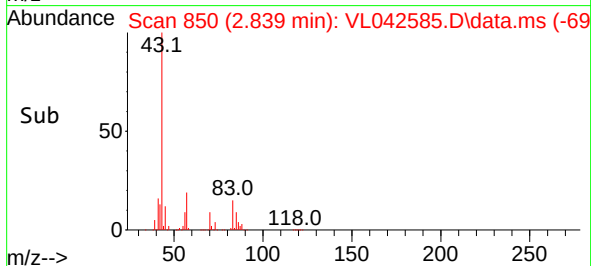
70 8.0 6.4 9.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#26

Hexane

Concen: 12.876 ppbv

RT: 2.829 min Scan# 847

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Tgt Ion: 57 Resp: 200386

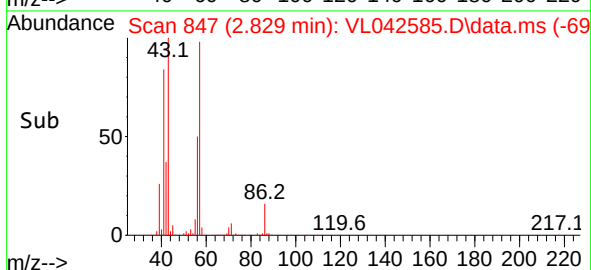
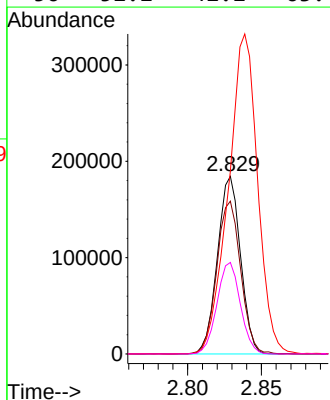
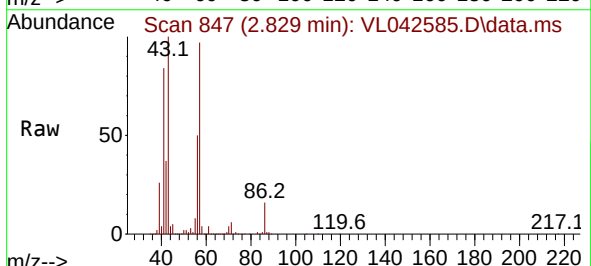
Ion Ratio Lower Upper

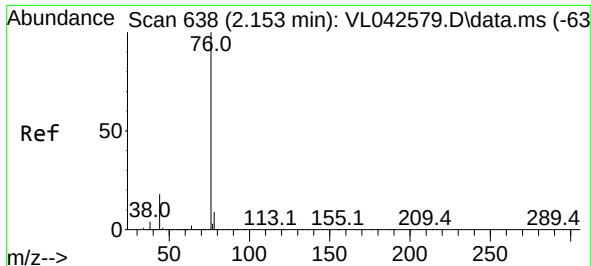
57 100

41 89.6 70.6 106.0

43 229.1 181.1 271.7

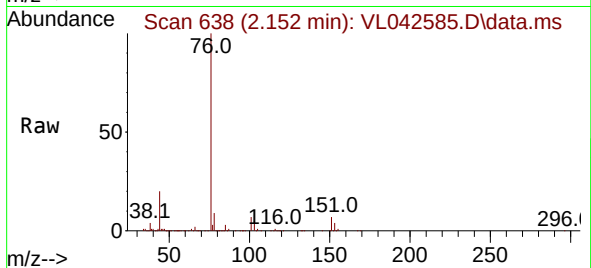
56 52.2 42.2 63.4





#27
Carbon Disulfide
Concen: 13.571 ppbv
RT: 2.152 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

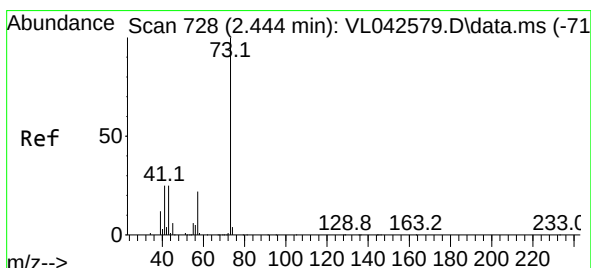
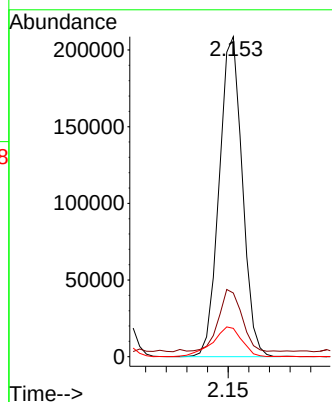
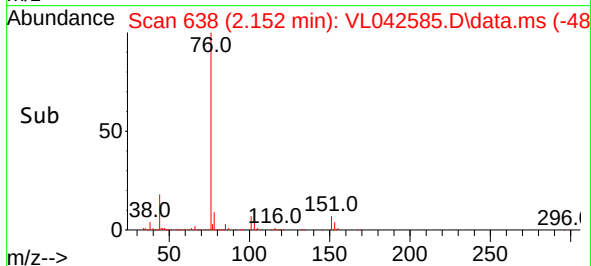
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 76 Resp: 16214
Ion Ratio Lower Upper
76 100
44 23.4 21.3 31.9
78 11.9 9.4 14.0

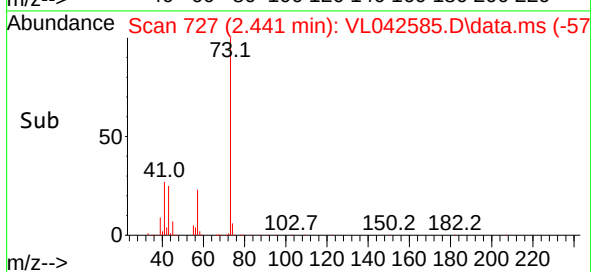
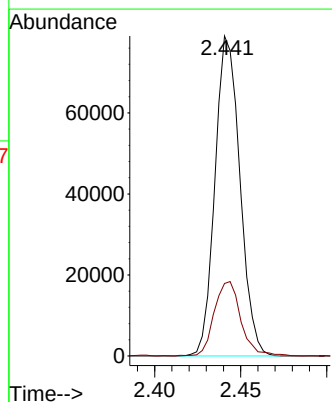
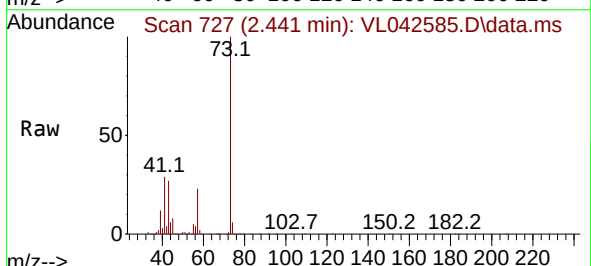
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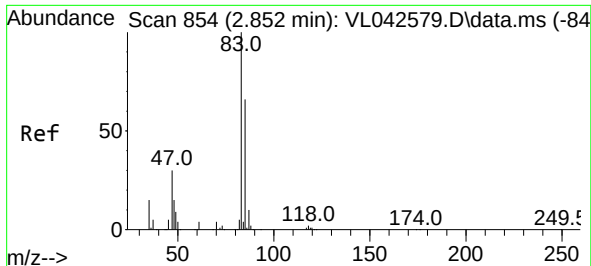
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#28
Methyl tert-Butyl Ether
Concen: 12.608 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 73 Resp: 79625
Ion Ratio Lower Upper
73 100
57 24.8 19.9 29.9





#29

Chloroform

Concen: 13.328 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 83 Resp: 269752

Ion Ratio Lower Upper

83 100

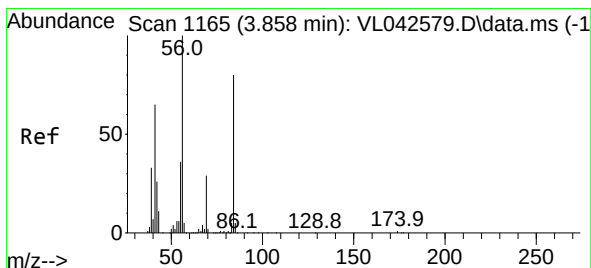
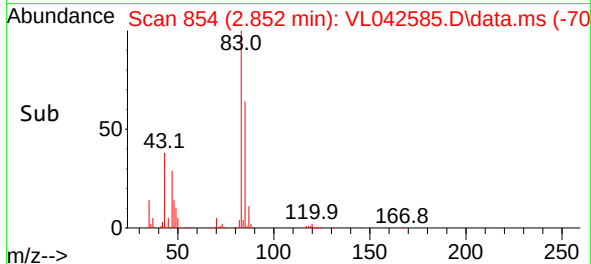
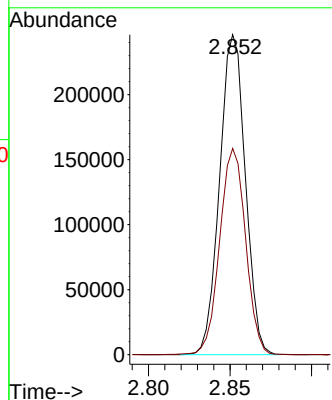
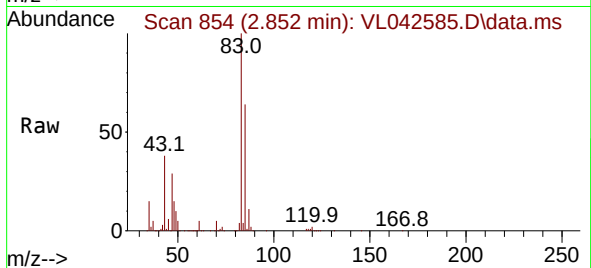
85 64.3 52.8 79.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#30

Cyclohexane

Concen: 13.196 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. 0.003 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

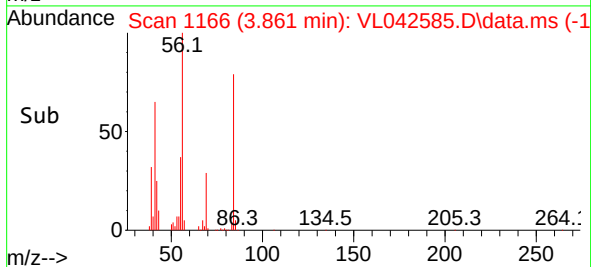
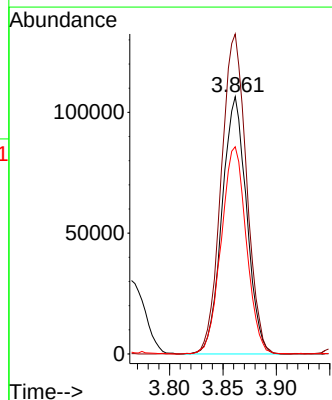
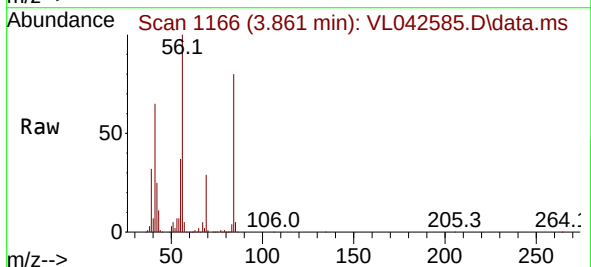
Tgt Ion: 84 Resp: 170261

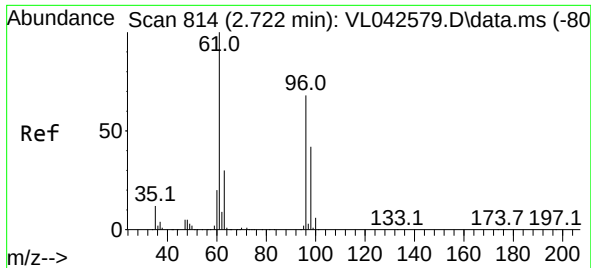
Ion Ratio Lower Upper

84 100

56 127.6 103.7 155.5

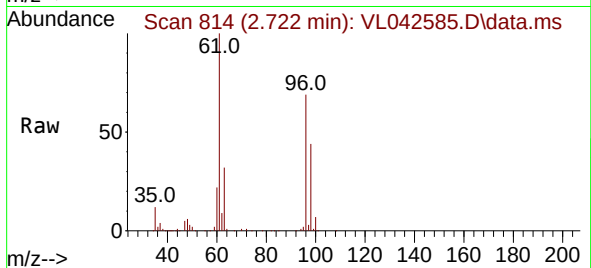
41 82.4 65.1 97.7





#31
 cis-1,2-Dichloroethene
 Concen: 13.526 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

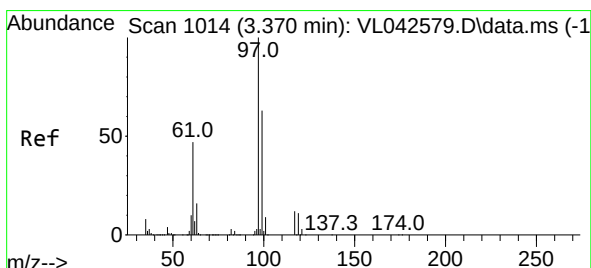
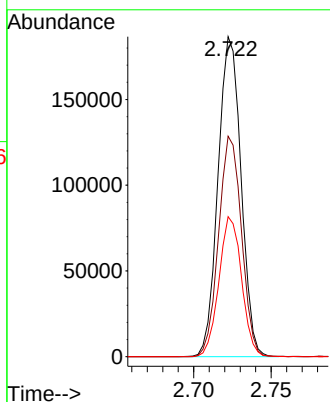
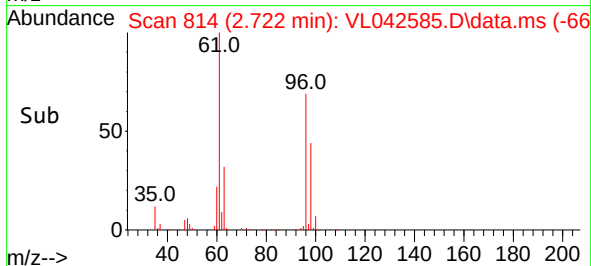
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



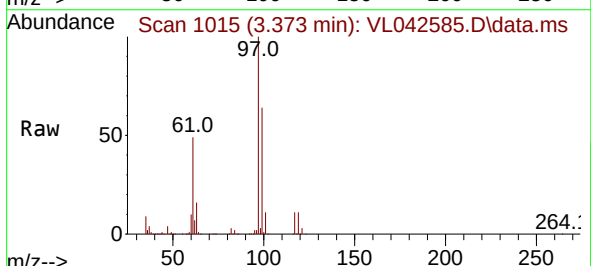
Tgt Ion: 61 Resp: 192562
 Ion Ratio Lower Upper
 61 100
 96 68.9 54.5 81.7
 98 43.8 33.4 50.2

Manual Integrations
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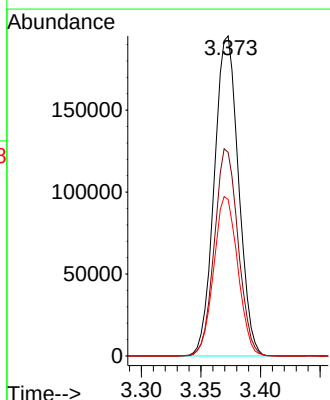
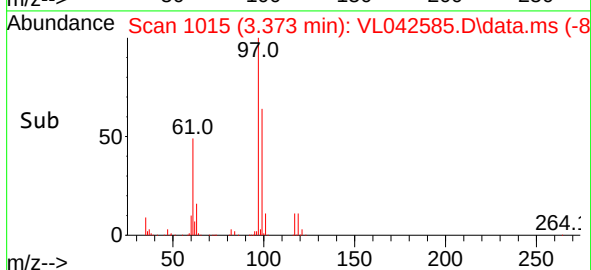
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

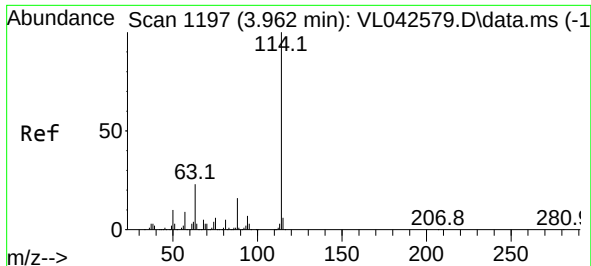


#32
 1,1,1-Trichloroethane
 Concen: 13.591 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.003 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24



Tgt Ion: 97 Resp: 276026
 Ion Ratio Lower Upper
 97 100
 99 63.4 51.0 76.6
 61 49.6 39.4 59.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.000 min

Lab File: VL042585.D

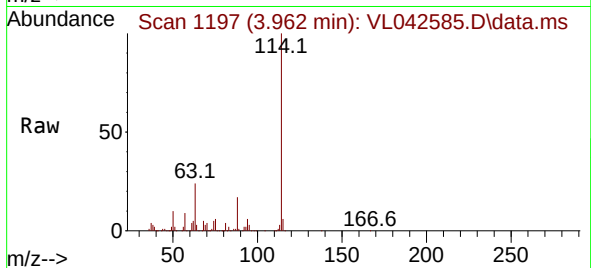
Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

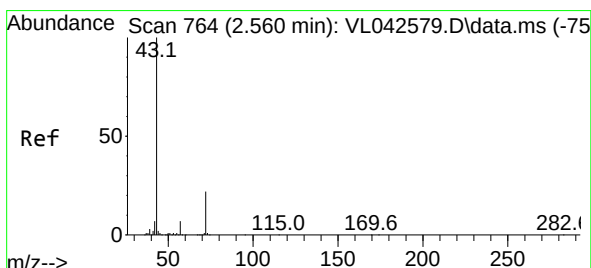
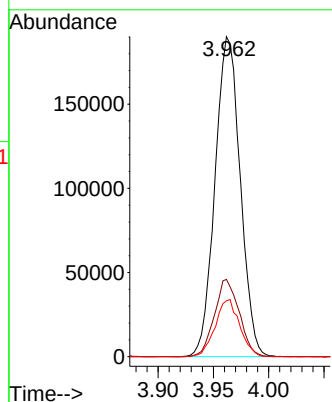
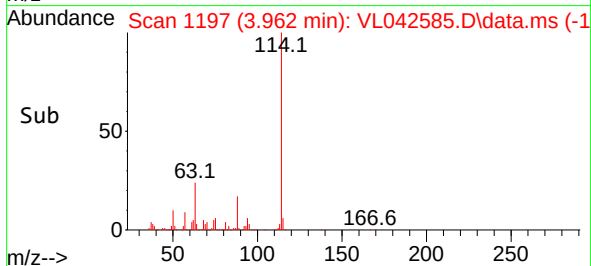


Tgt Ion:114	Resp:	30179
Ion Ratio	Lower	Upper
114	100	
63	23.7	19.0 28.6
88	17.4	13.6 20.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#34

2-Butanone

Concen: 13.689 ppbv

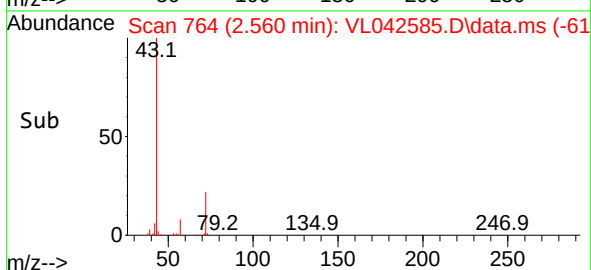
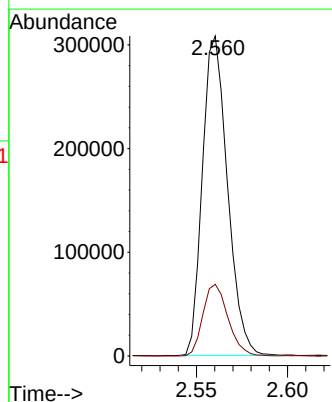
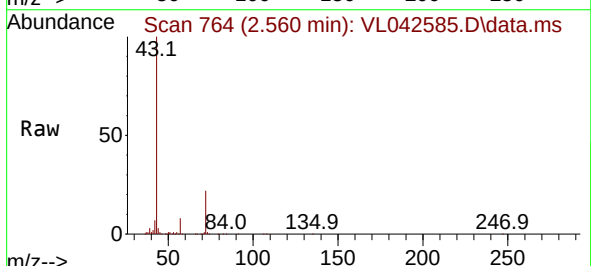
RT: 2.560 min Scan# 764

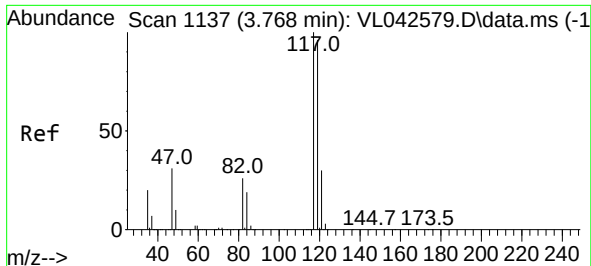
Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

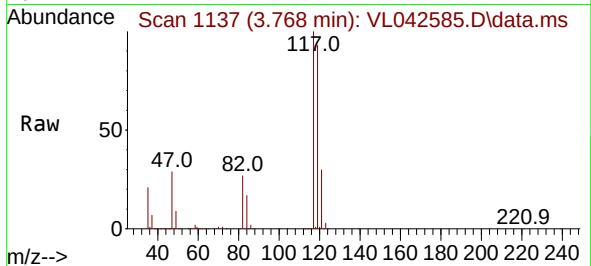
Tgt Ion: 43	Resp:	294628
Ion Ratio	Lower	Upper
43	100	
72	22.5	17.7 26.5





#35
Carbon Tetrachloride
Concen: 13.903 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

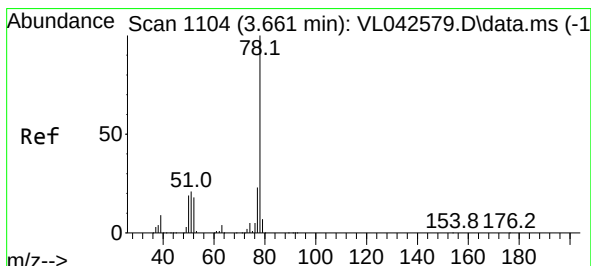
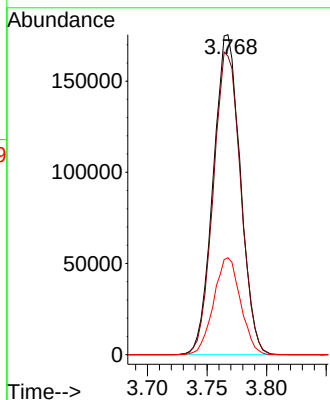
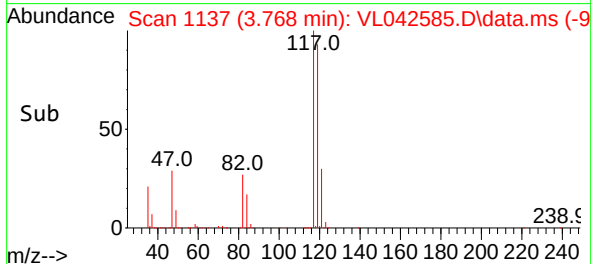
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 117 Resp: 27704
Ion Ratio Lower Upper
117 100
119 93.2 76.8 115.2
121 30.3 24.3 36.5

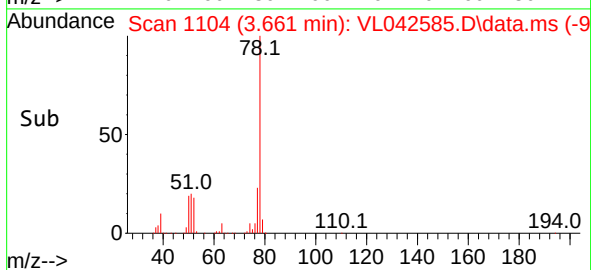
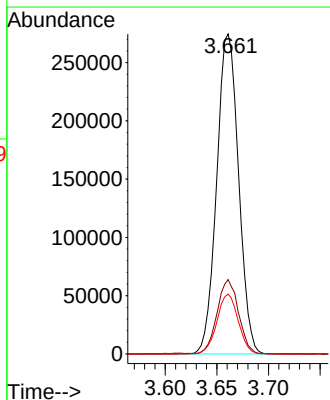
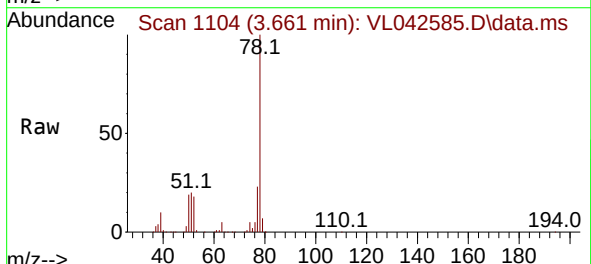
Manual Integrations
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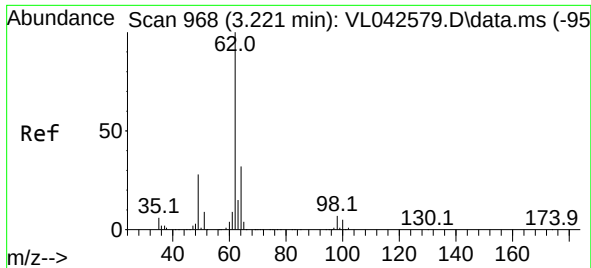
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#36
Benzene
Concen: 13.615 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

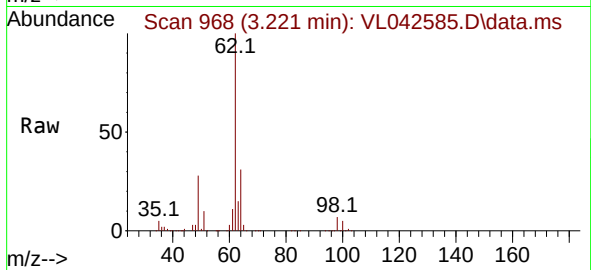
Tgt Ion: 78 Resp: 404641
Ion Ratio Lower Upper
78 100
77 23.3 18.2 27.2
50 18.7 15.2 22.8





#37
1,2-Dichloroethane
Concen: 14.088 ppbv
RT: 3.221 min Scan# 968
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

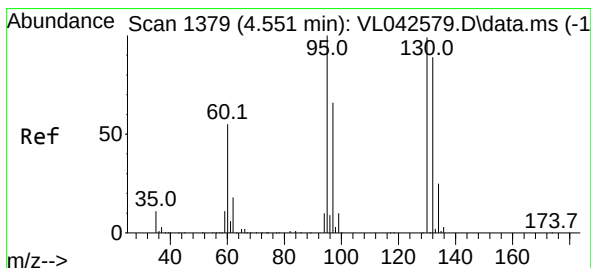
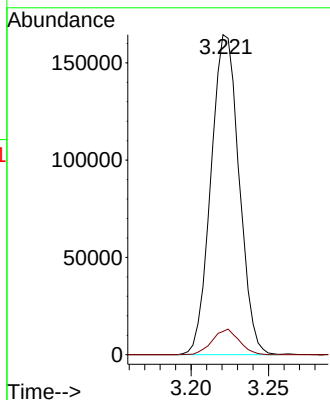
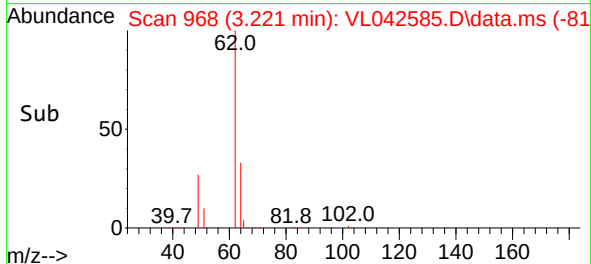
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 62 Resp: 20808
Ion Ratio Lower Upper
62 100
98 7.6 6.1 9.1

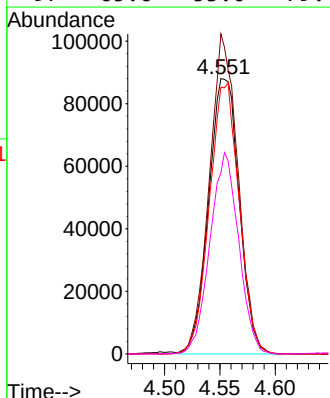
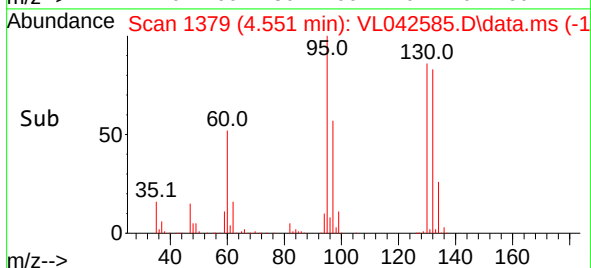
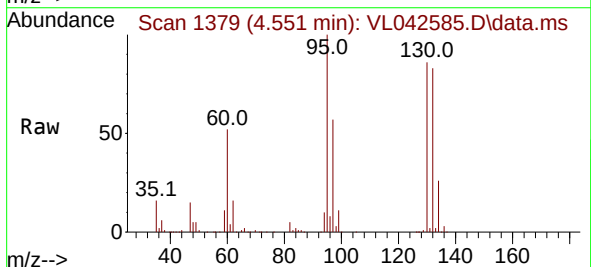
Manual Integrations
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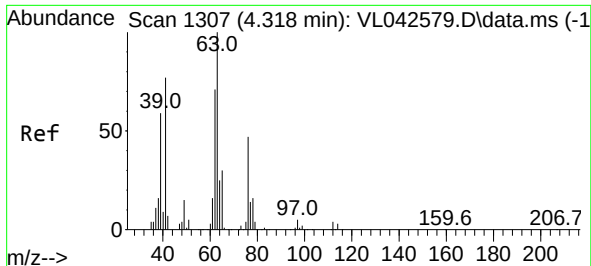
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#38
Trichloroethene
Concen: 13.263 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion:130 Resp: 168824
Ion Ratio Lower Upper
130 100
95 116.2 80.6 121.0
132 96.9 71.8 107.6
97 65.6 53.0 79.4





#39

1,2-Dichloropropane

Concen: 13.606 ppbv

RT: 4.318 min Scan# 1307

Delta R.T. -0.000 min

Lab File: VL042585.D

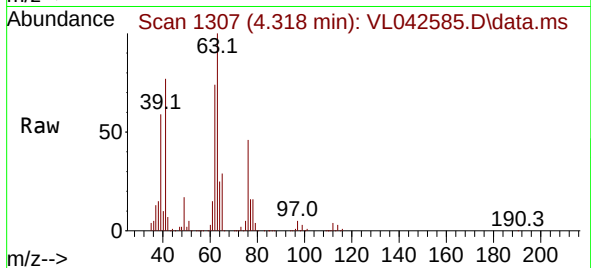
Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

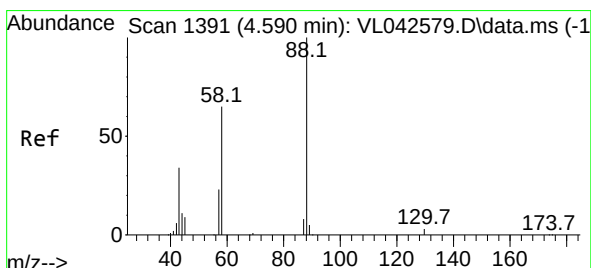
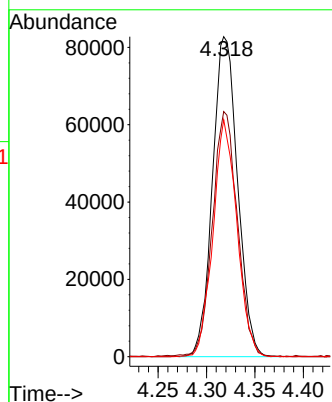
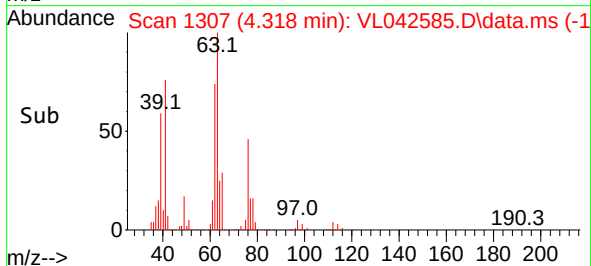


Tgt Ion:	63	Resp:	149470
Ion	Ratio	Lower	Upper
63	100		
41	76.3	61.8	92.6
62	74.0	56.6	85.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#40

1,4-Dioxane

Concen: 14.035 ppbv

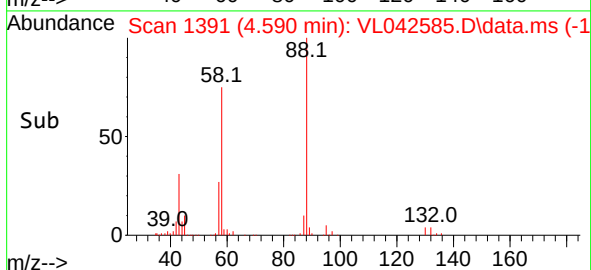
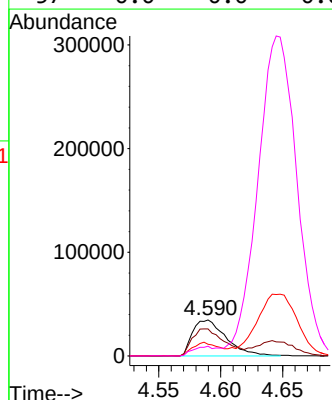
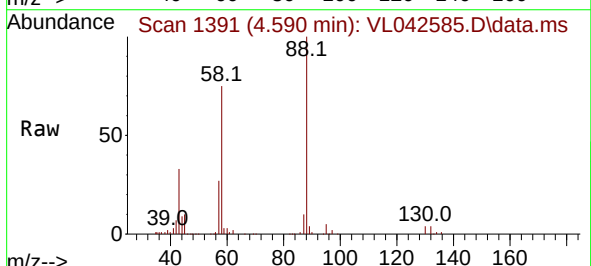
RT: 4.590 min Scan# 1391

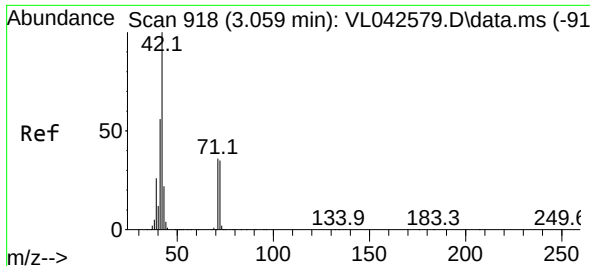
Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Tgt Ion:	88	Resp:	65543
Ion	Ratio	Lower	Upper
88	100		
58	70.8	55.8	83.8
43	29.8	24.8	37.2
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 13.734 ppbv

RT: 3.056 min Scan# 917

Delta R.T. -0.003 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

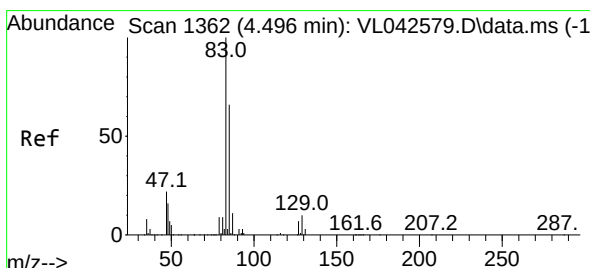
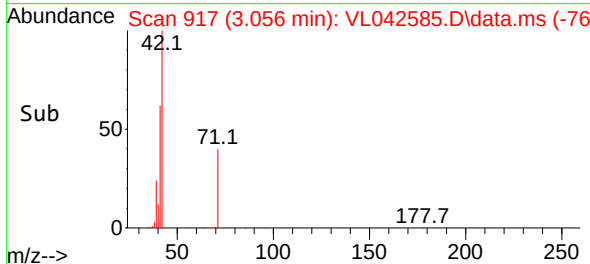
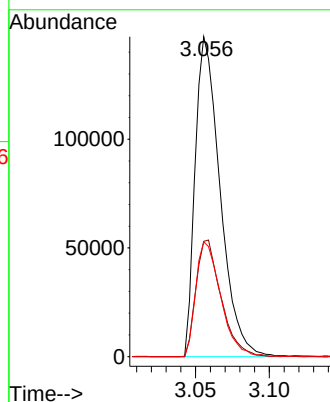
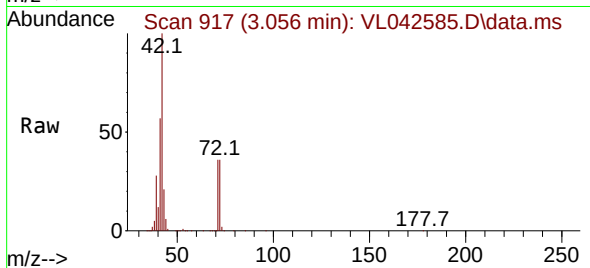
Tgt Ion: 42 Resp: 173023

Ion	Ratio	Lower	Upper
42	100		
72	36.7	28.9	43.3
71	35.8	28.5	42.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#42

Bromodichloromethane

Concen: 14.245 ppbv

RT: 4.493 min Scan# 1361

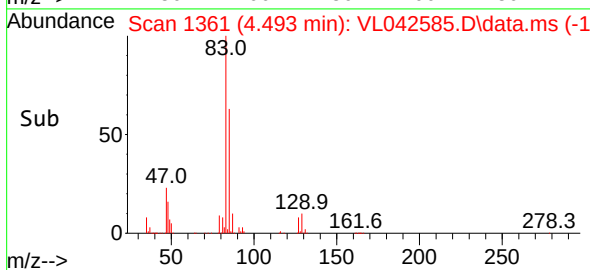
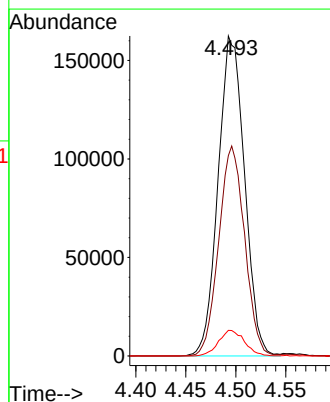
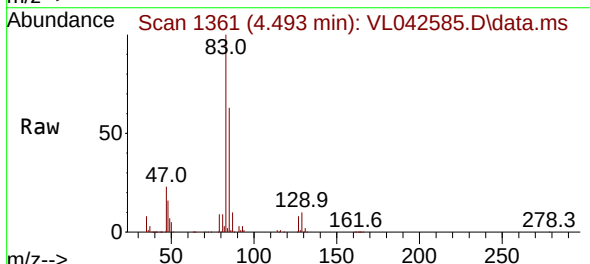
Delta R.T. -0.003 min

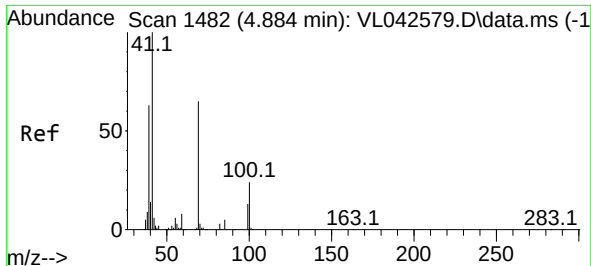
Lab File: VL042585.D

Acq: 29 May 2025 14:24

Tgt Ion: 83 Resp: 298835

Ion	Ratio	Lower	Upper
83	100		
85	62.6	52.7	79.1
127	8.0	5.8	8.6





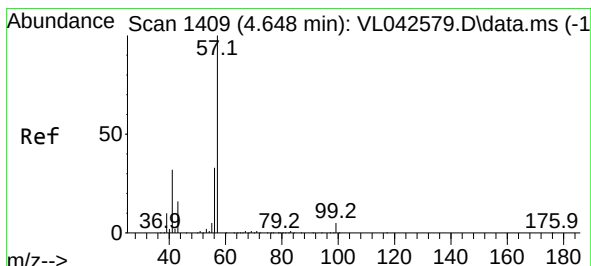
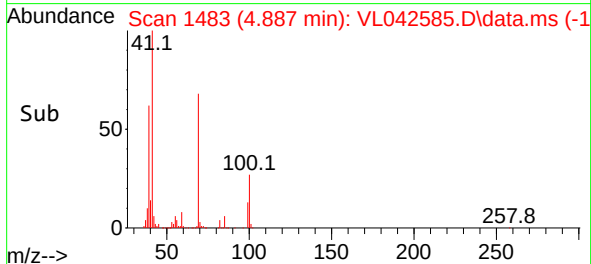
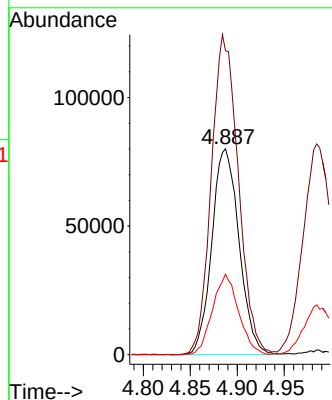
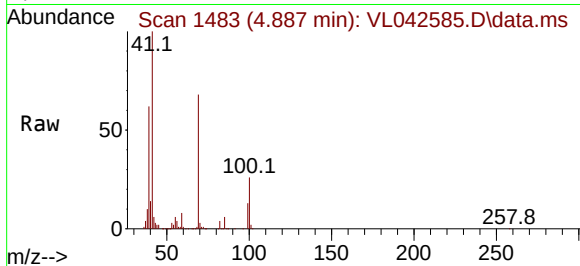
#43
Methyl Methacrylate
Concen: 14.033 ppbv
RT: 4.887 min Scan# 1482
Delta R.T. 0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 69 Resp: 16164
Ion Ratio Lower Upper
69 100
41 154.3 124.6 187.0
100 37.3 29.9 44.9

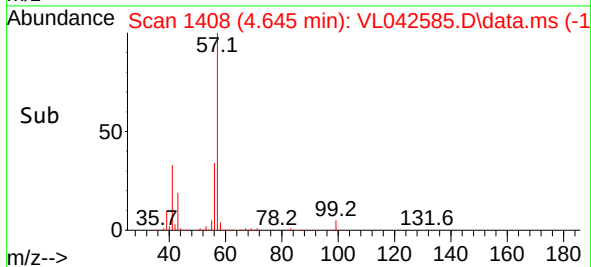
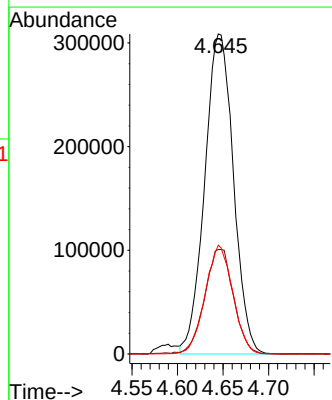
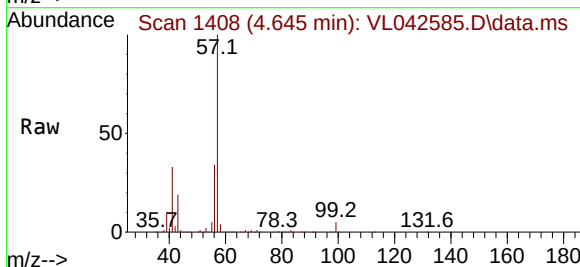
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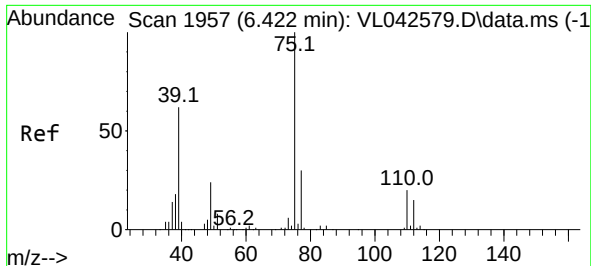
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#44
2,2,4-Trimethylpentane
Concen: 13.319 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 57 Resp: 676574
Ion Ratio Lower Upper
57 100
41 33.1 26.1 39.1
56 32.7 25.9 38.9





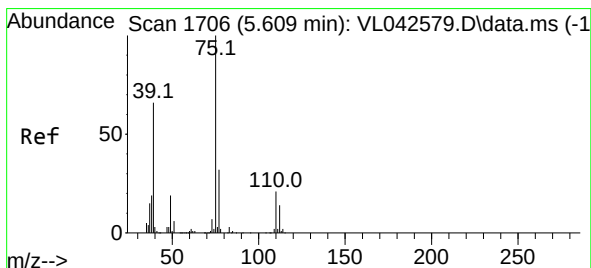
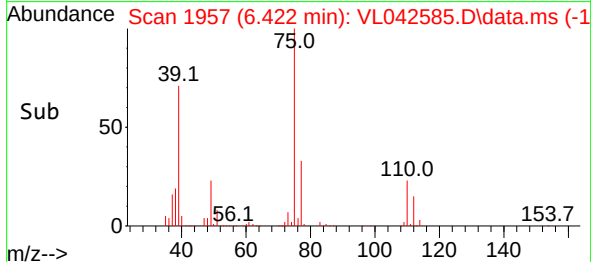
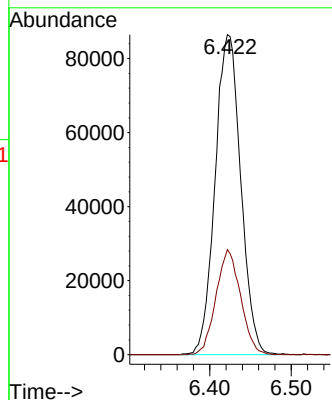
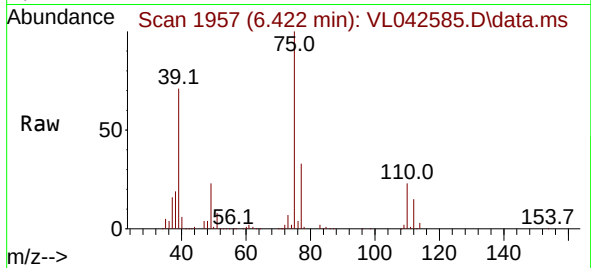
#45
 t-1,3-Dichloropropene
 Concen: 14.338 ppbv
 RT: 6.422 min Scan# 1957
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 75 Resp: 18925
 Ion Ratio Lower Upper
 75 100
 77 32.8 24.2 36.2

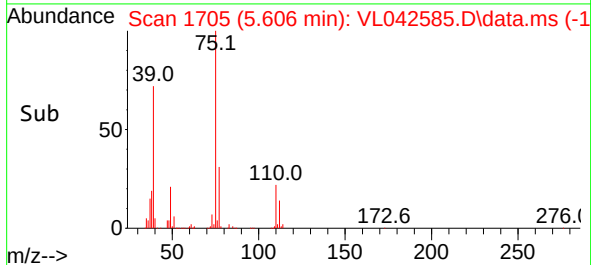
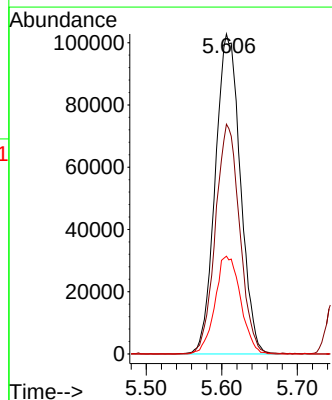
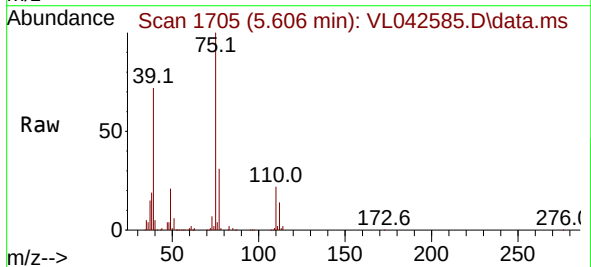
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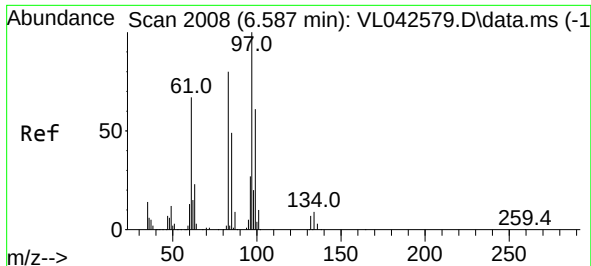
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#46
 cis-1,3-Dichloropropene
 Concen: 14.313 ppbv
 RT: 5.606 min Scan# 1705
 Delta R.T. -0.003 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

Tgt Ion: 75 Resp: 236653
 Ion Ratio Lower Upper
 75 100
 39 71.7 52.7 79.1
 77 30.6 25.8 38.8





#47

1,1,2-Trichloroethane

Concen: 13.524 ppbv

RT: 6.590 min Scan# 2008

Delta R.T. 0.003 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 97 Resp: 153862

Ion Ratio Lower Upper

97 100

83 86.0 63.9 95.9

85 57.3 39.2 58.8

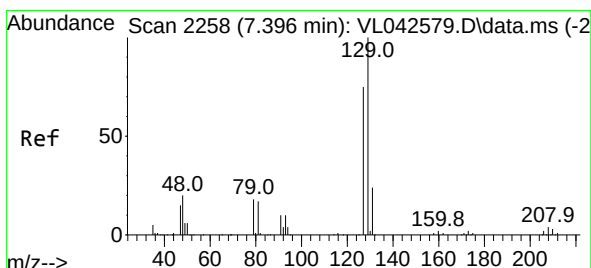
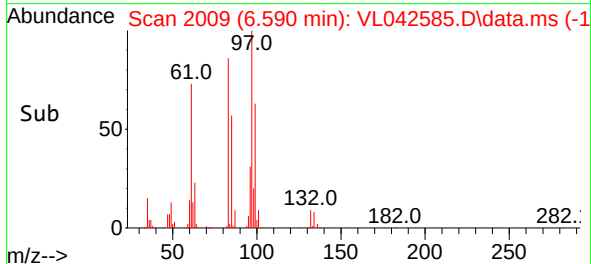
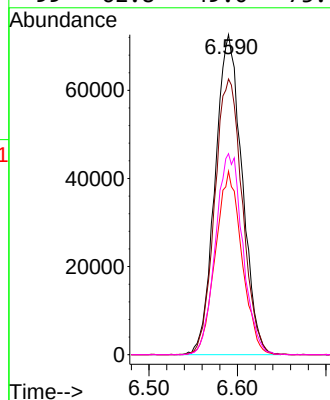
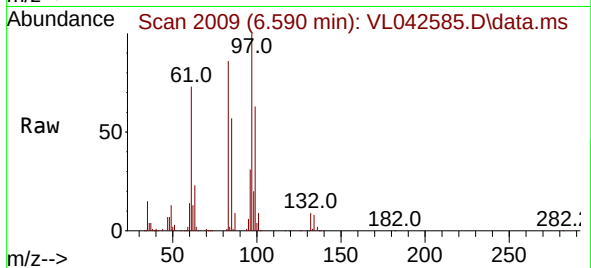
99 62.8 49.0 73.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#48

Dibromochloromethane

Concen: 14.187 ppbv

RT: 7.393 min Scan# 2257

Delta R.T. -0.003 min

Lab File: VL042585.D

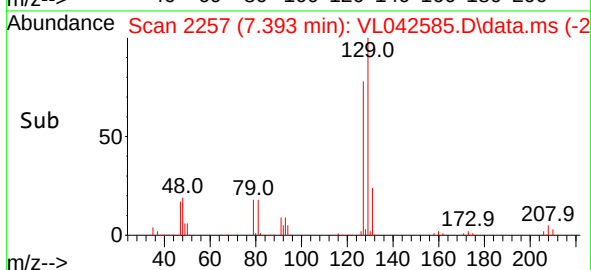
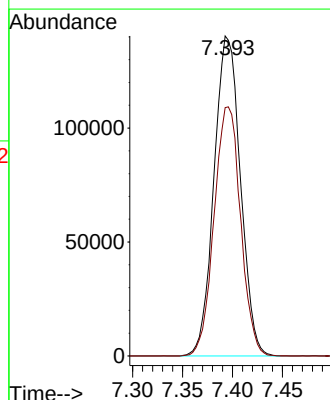
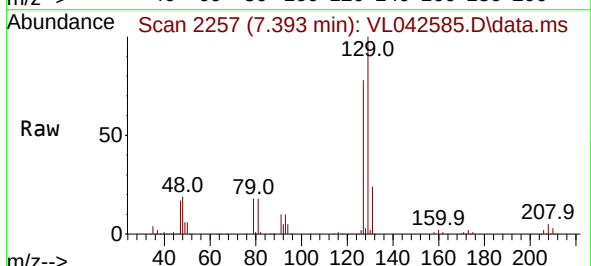
Acq: 29 May 2025 14:24

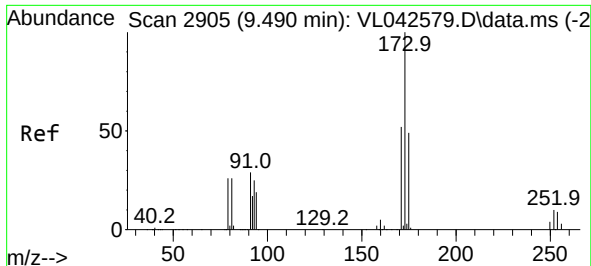
Tgt Ion:129 Resp: 258374

Ion Ratio Lower Upper

129 100

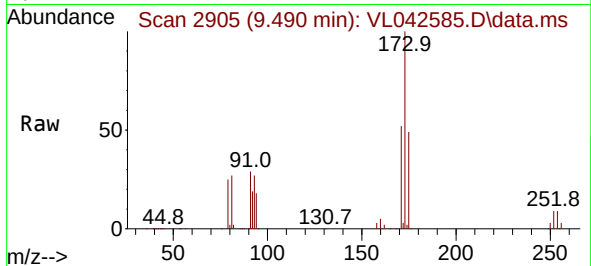
127 78.0 39.0 116.9





#49
Bromoform
Concen: 14.427 ppbv
RT: 9.490 min Scan# 2905
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

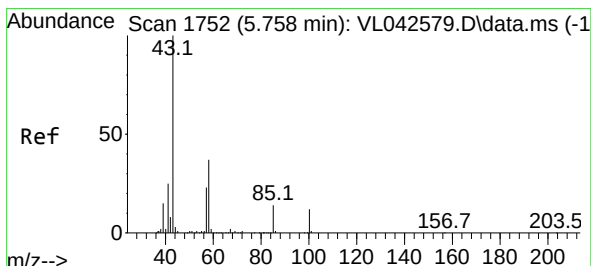
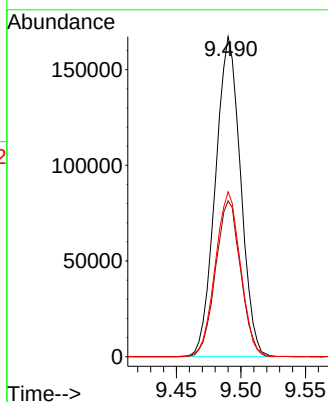
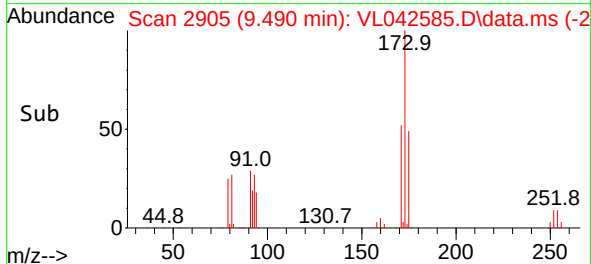
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



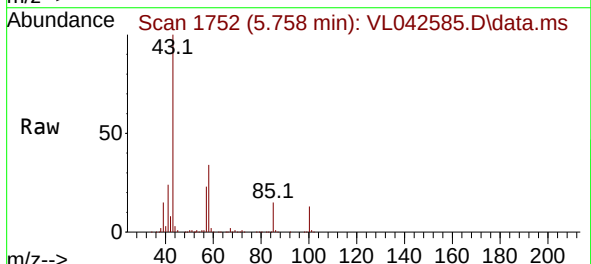
Tgt Ion: 173 Resp: 226719
Ion Ratio Lower Upper
173 100
175 48.6 38.7 58.1
171 51.5 41.2 61.8

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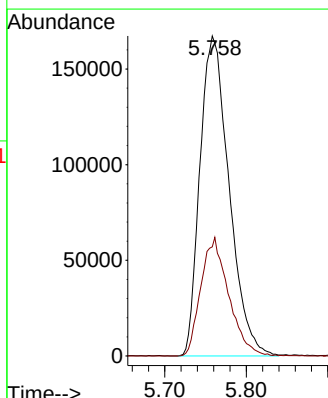
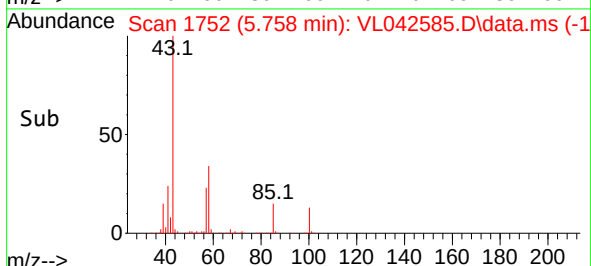
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

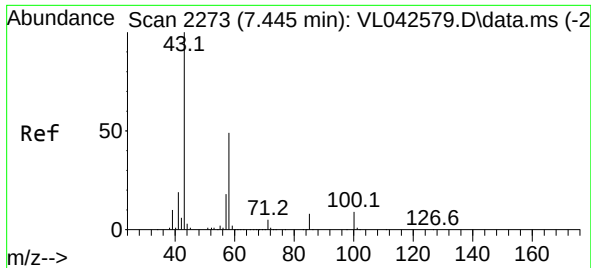


#50
4-Methyl-2-Pentanone
Concen: 13.882 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24



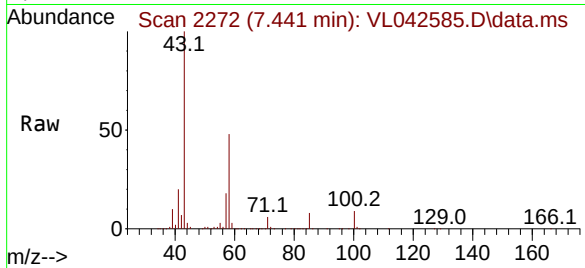
Tgt Ion: 43 Resp: 416119
Ion Ratio Lower Upper
43 100
58 35.4 28.3 42.5





#51
2-Hexanone
Concen: 14.328 ppbv
RT: 7.441 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

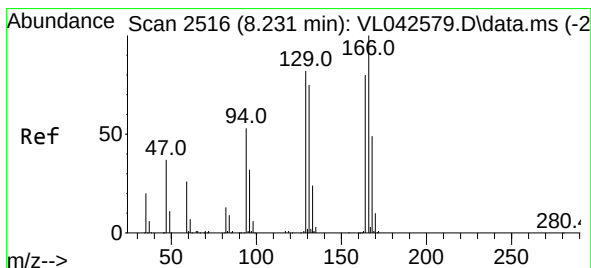
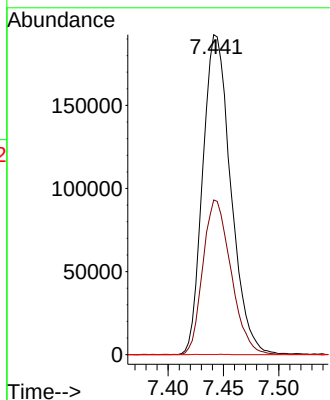
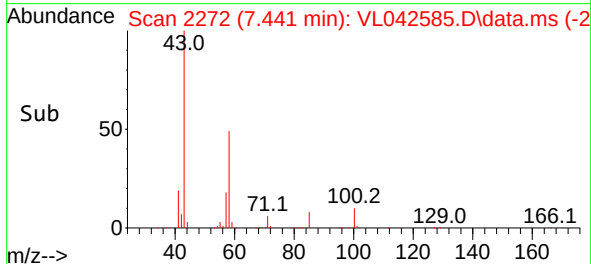
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 43 Resp: 339220
Ion Ratio Lower Upper
43 100
58 48.6 39.9 59.9
98 0.1 0.1 0.1

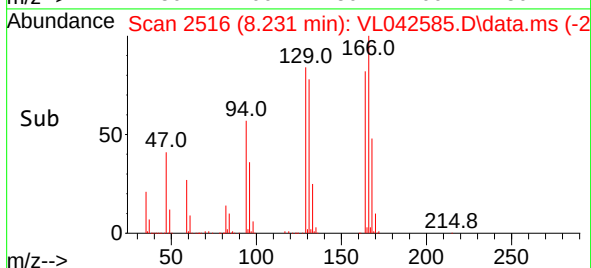
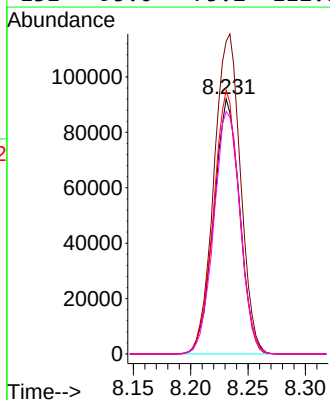
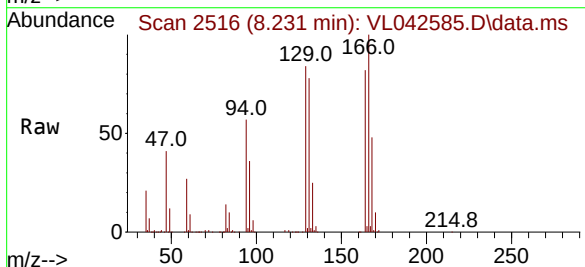
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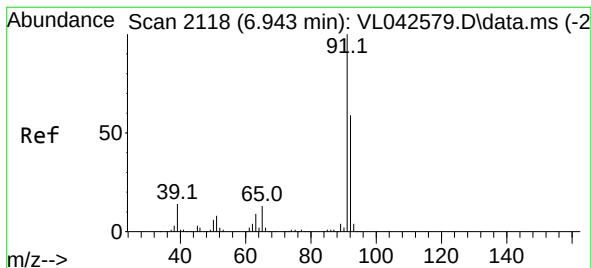
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#52
Tetrachloroethene
Concen: 13.098 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion:164 Resp: 145485
Ion Ratio Lower Upper
164 100
166 122.6 100.0 150.0
129 103.3 82.2 123.4
131 95.0 75.2 112.8





#53

Toluene

Concen: 13.702 ppbv

RT: 6.939 min Scan# 2118

Delta R.T. -0.003 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 91 Resp: 47063

Ion Ratio Lower Upper

91 100

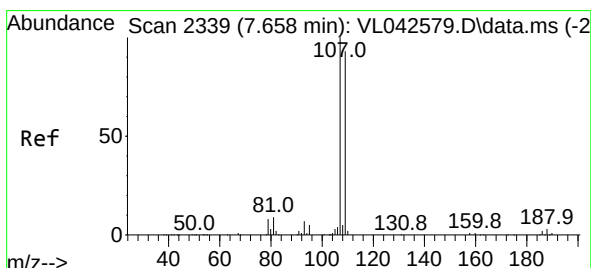
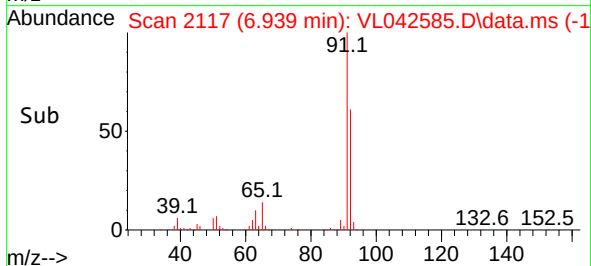
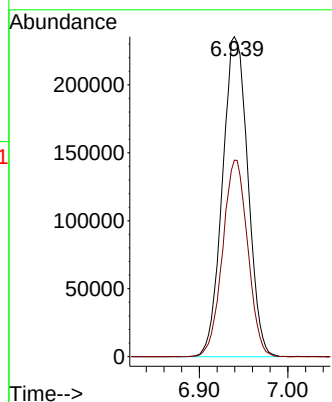
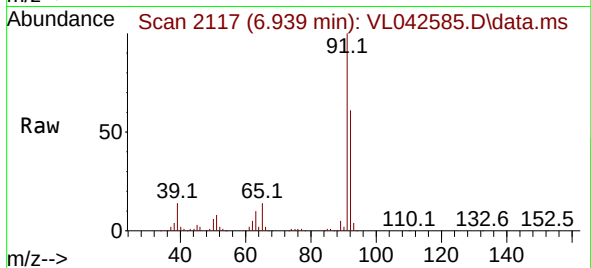
92 60.5 48.2 72.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#54

1,2-Dibromoethane

Concen: 13.758 ppbv

RT: 7.661 min Scan# 2340

Delta R.T. 0.003 min

Lab File: VL042585.D

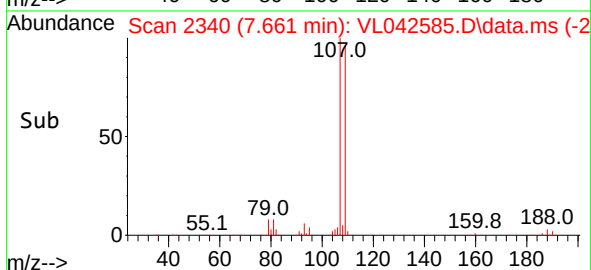
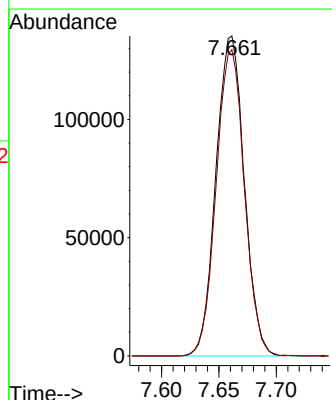
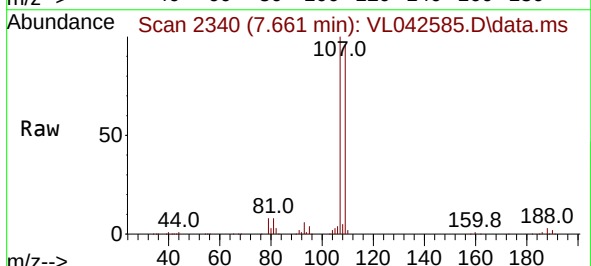
Acq: 29 May 2025 14:24

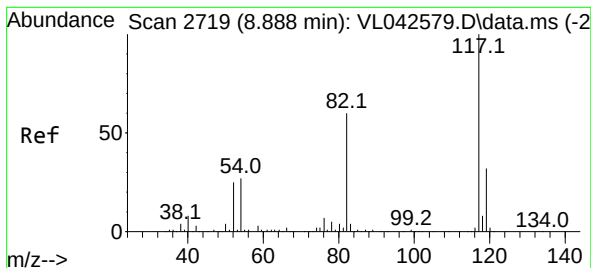
Tgt Ion:107 Resp: 232051

Ion Ratio Lower Upper

107 100

109 95.7 74.3 111.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2719

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

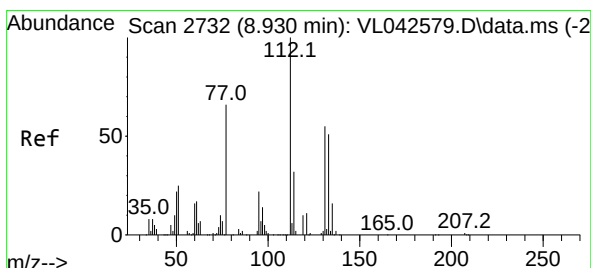
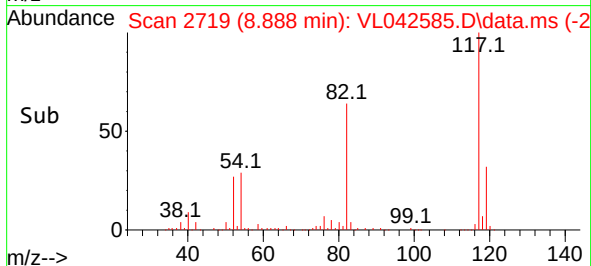
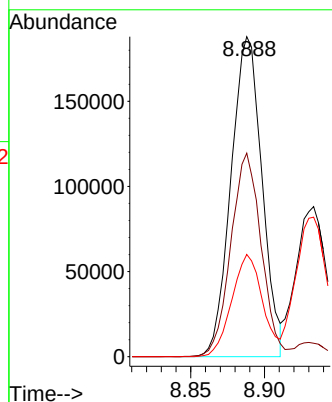
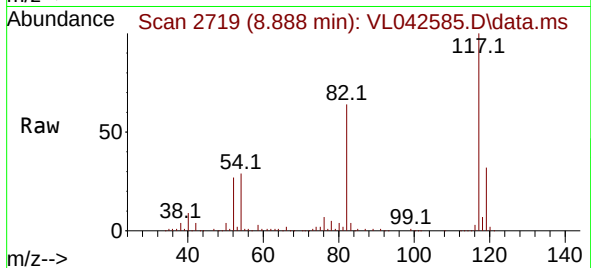
Tgt Ion:117 Resp: 27491

Ion	Ratio	Lower	Upper
117	100		
82	66.6	51.2	76.8
119	32.0	26.3	39.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 13.828 ppbv

RT: 8.930 min Scan# 2732

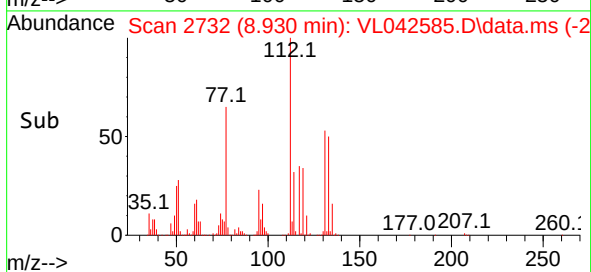
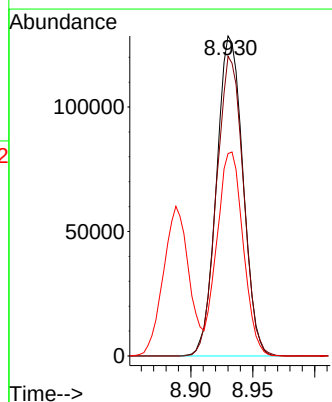
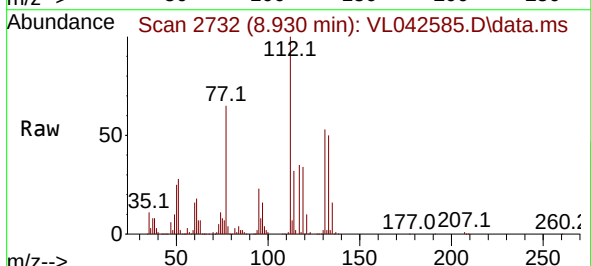
Delta R.T. -0.000 min

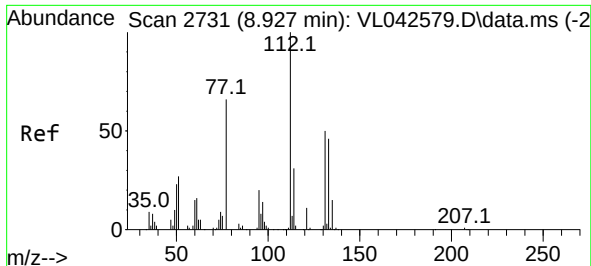
Lab File: VL042585.D

Acq: 29 May 2025 14:24

Tgt Ion:131 Resp: 191145

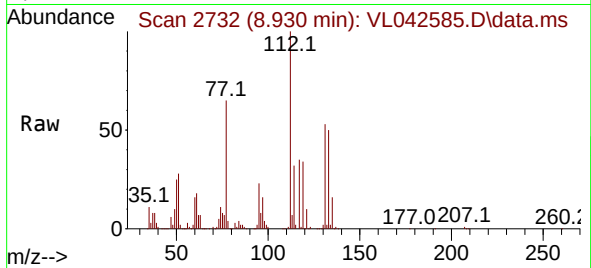
Ion	Ratio	Lower	Upper
131	100		
133	94.8	75.0	112.6
119	64.0	50.8	76.2





#57
Chlorobenzene
Concen: 13.361 ppbv
RT: 8.930 min Scan# 2731
Delta R.T. 0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

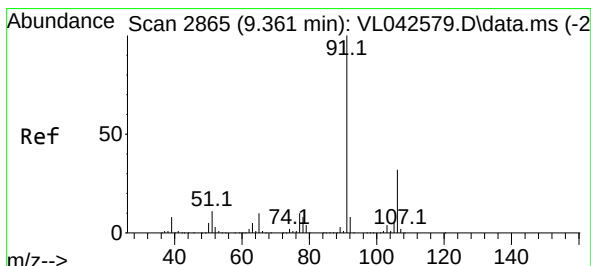
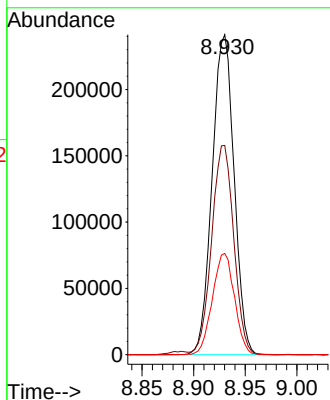
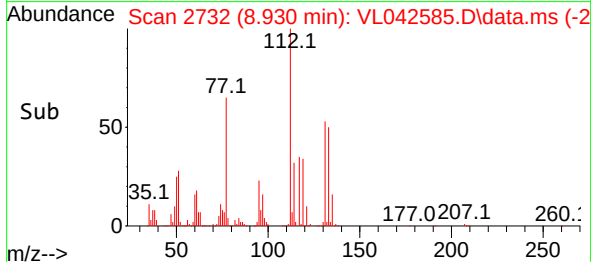
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:112 Resp: 356658
Ion Ratio Lower Upper
112 100
77 65.4 53.5 80.3
114 31.7 27.8 34.0

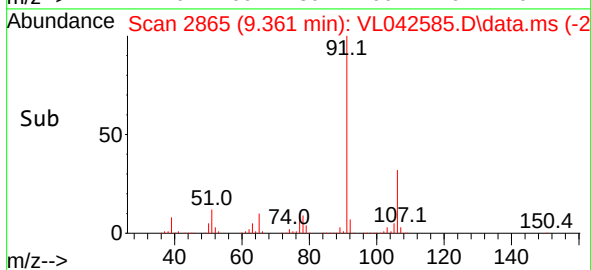
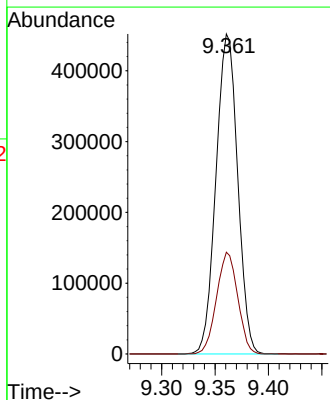
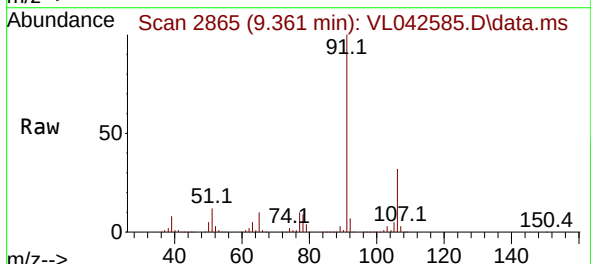
Manual Integrations
APPROVED

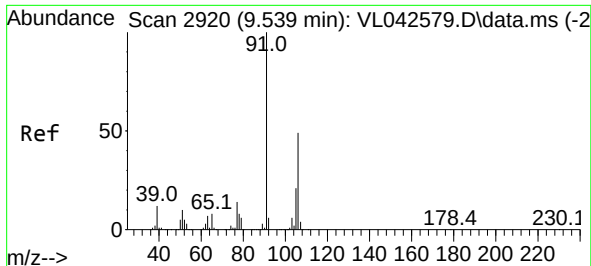
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#58
Ethyl Benzene
Concen: 13.662 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 91 Resp: 637083
Ion Ratio Lower Upper
91 100
106 31.8 25.9 38.9





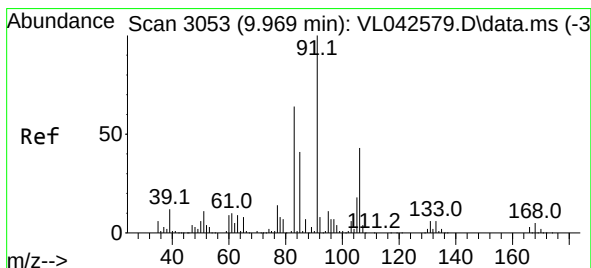
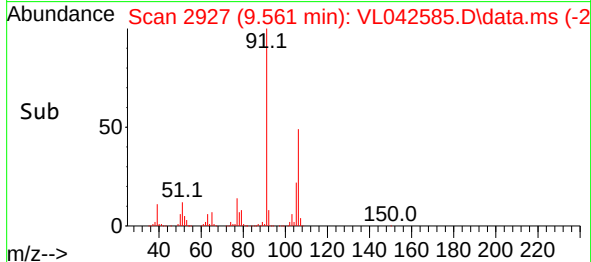
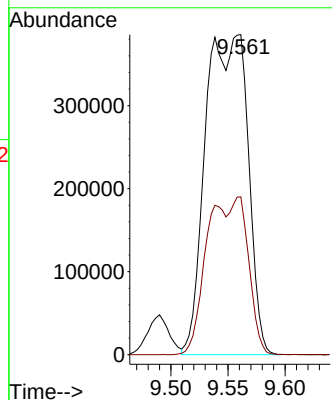
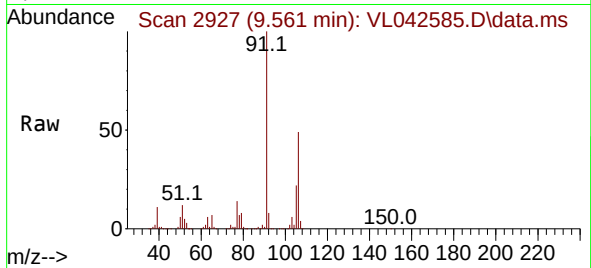
#59
m/p-Xylene
Concen: 27.151 ppbv m
RT: 9.561 min Scan# 2927
Delta R.T. 0.023 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 996602
Ion Ratio Lower Upper
91 100
106 0.0 38.8 58.2

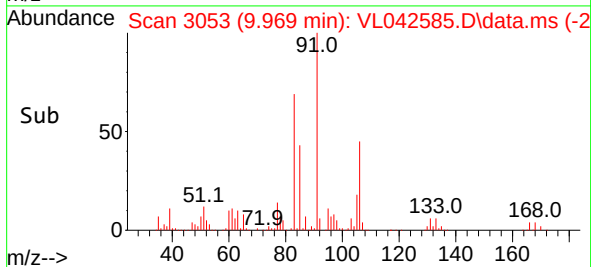
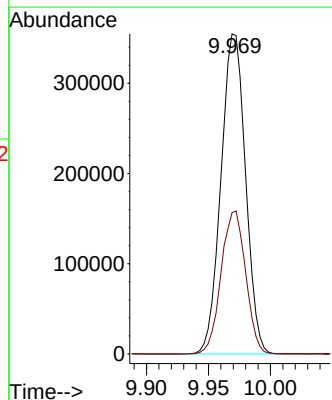
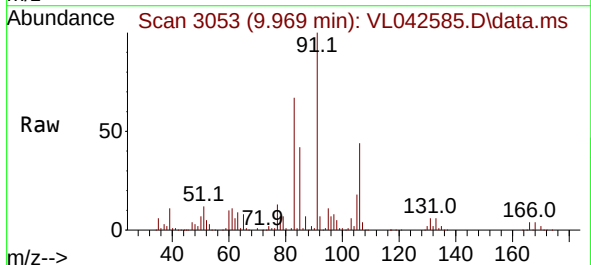
Manual Integrations
APPROVED

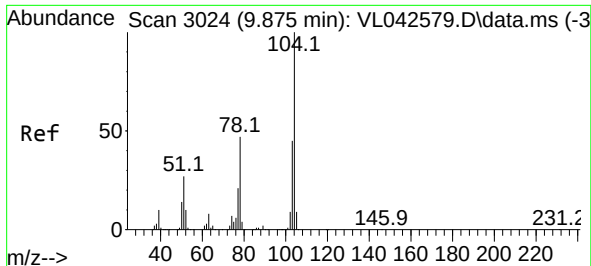
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#60
o-Xylene
Concen: 13.389 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

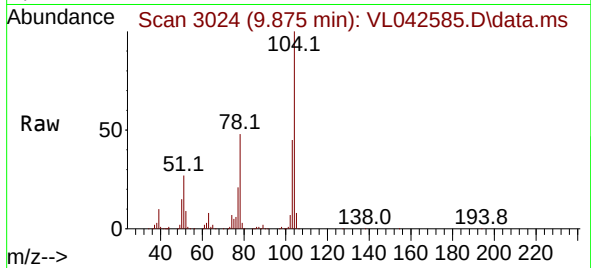
Tgt Ion: 91 Resp: 490036
Ion Ratio Lower Upper
91 100
106 44.7 22.9 68.5





#61
Styrene
Concen: 14.199 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

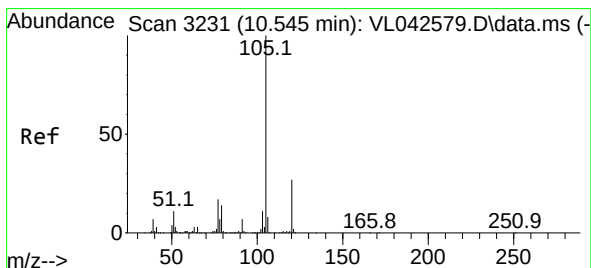
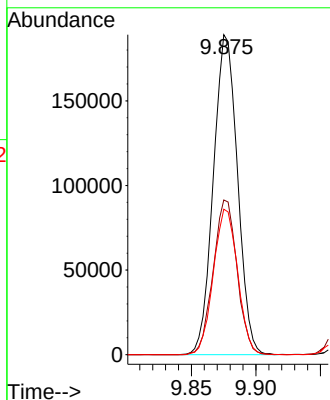
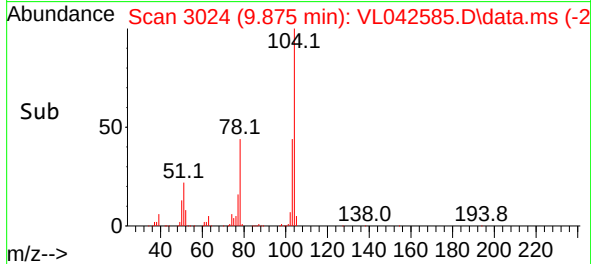
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:104 Resp: 245714
Ion Ratio Lower Upper
104 100
78 47.9 38.2 57.4
103 45.8 36.7 55.1

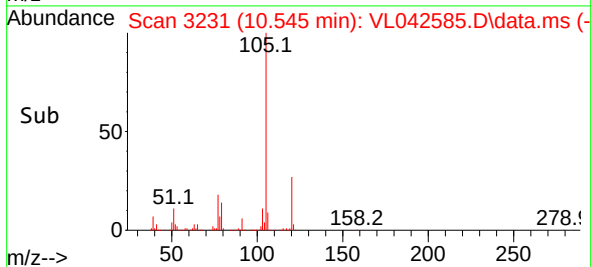
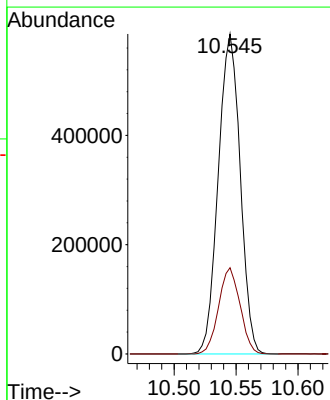
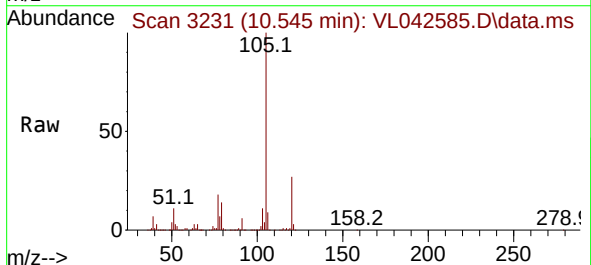
Manual Integrations
APPROVED

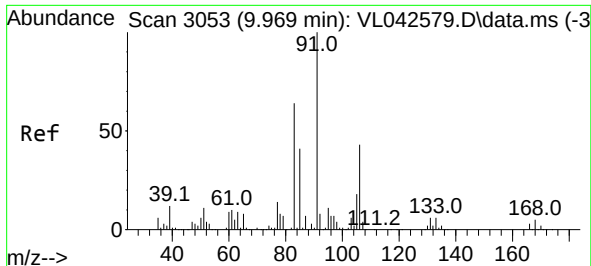
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#62
Isopropylbenzene
Concen: 13.356 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

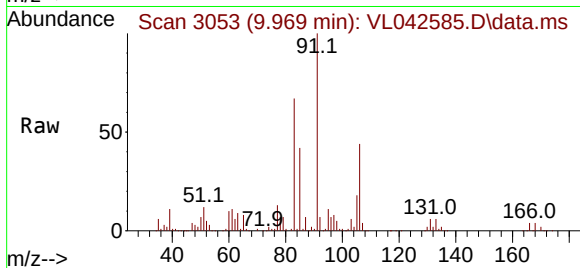
Tgt Ion:105 Resp: 722166
Ion Ratio Lower Upper
105 100
120 26.3 20.9 31.3





#63
1,1,2,2-Tetrachloroethane
Concen: 12.875 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

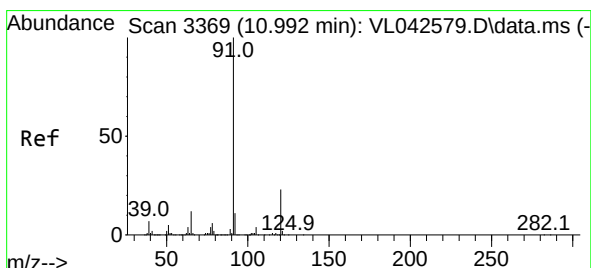
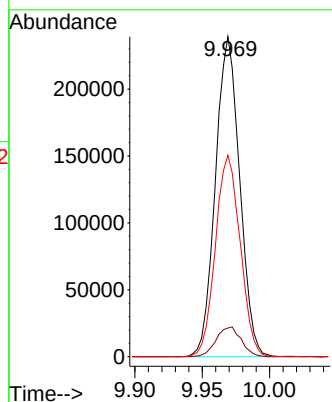
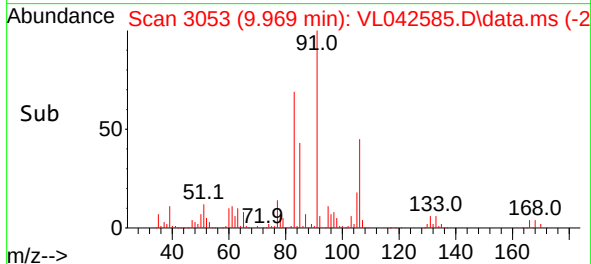
Instrument : MSVOA_L
ClientSampleId : VSTDIC015



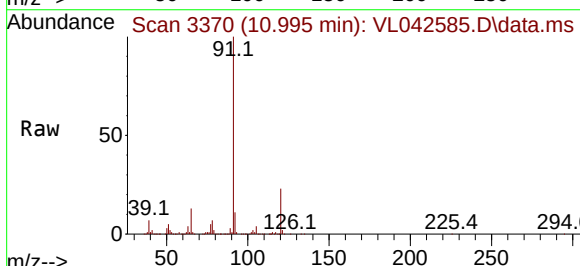
Tgt Ion: 83 Resp: 299633
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 64.2 32.5 97.4

Manual Integrations
APPROVED

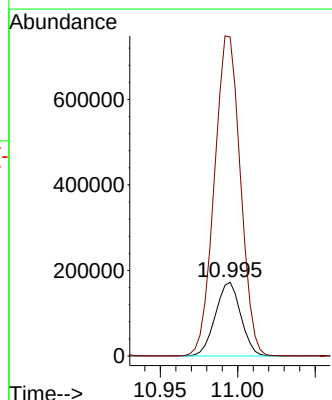
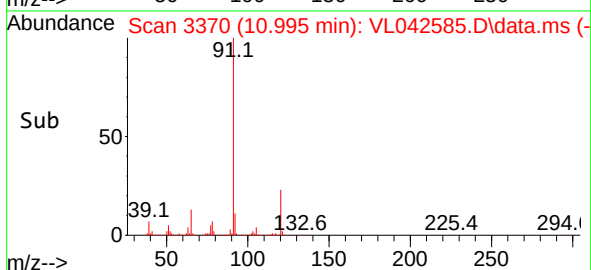
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

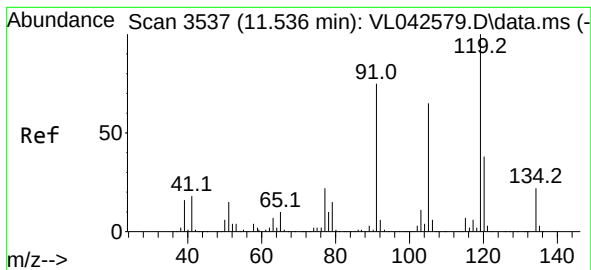


#64
n-propylbenzene
Concen: 13.519 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24



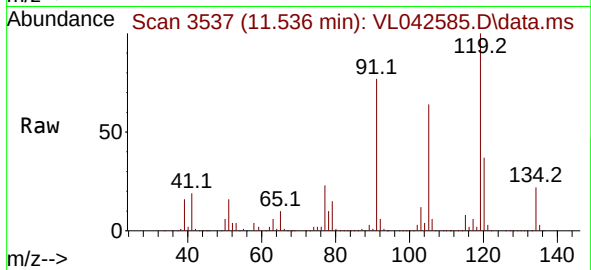
Tgt Ion:120 Resp: 195952
Ion Ratio Lower Upper
120 100
91 446.5 363.0 544.6





#65
tert-Butylbenzene
Concen: 12.924 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

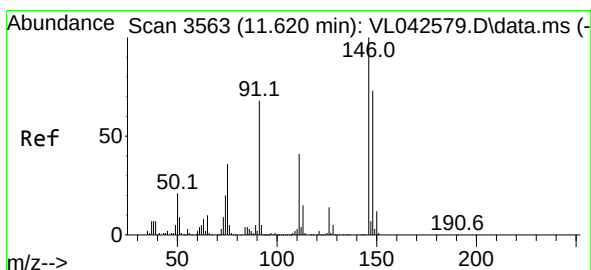
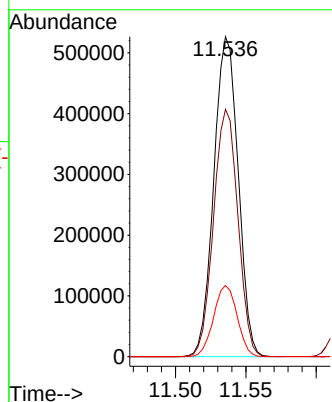
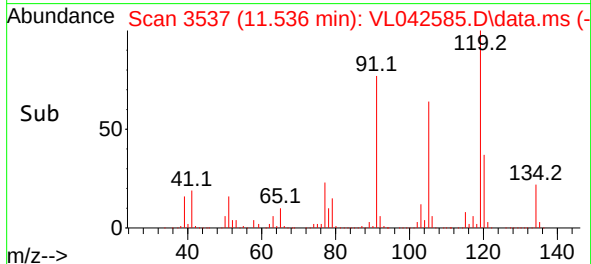
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



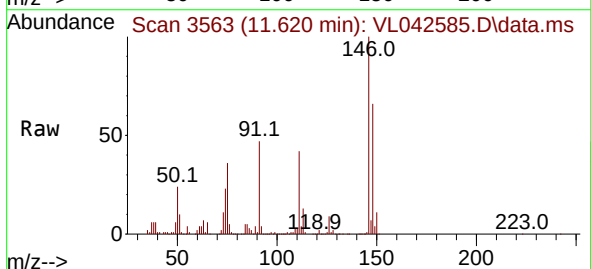
Tgt Ion: 119 Resp: 634159
Ion Ratio Lower Upper
119 100
91 77.3 61.1 91.7
134 21.5 17.4 26.2

Manual Integrations
APPROVED

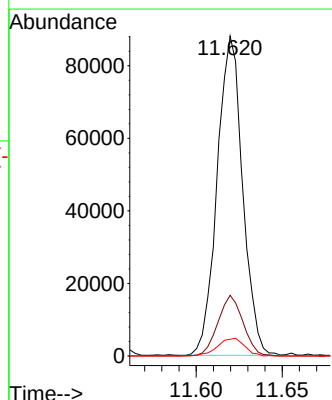
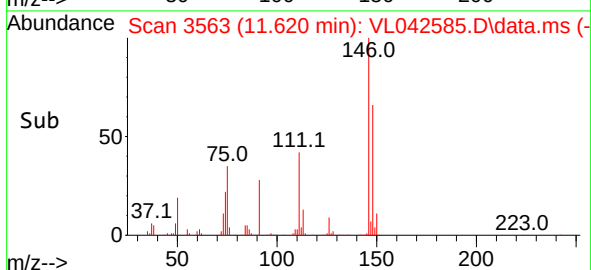
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

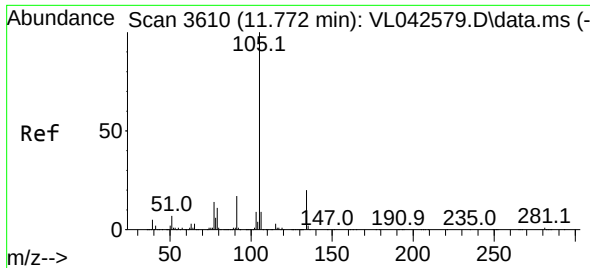


#66
Benzyl Chloride
Concen: 14.320 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24



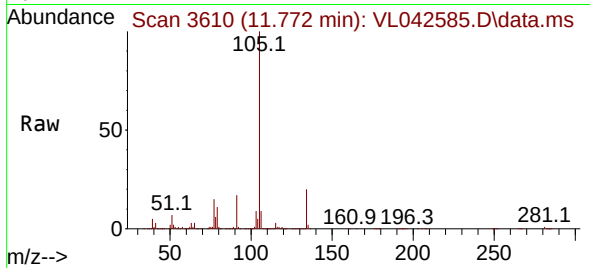
Tgt Ion: 91 Resp: 90617
Ion Ratio Lower Upper
91 100
126 18.7 15.1 22.7
128 5.9 5.0 7.6





#67
 sec-Butylbenzene
 Concen: 12.939 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

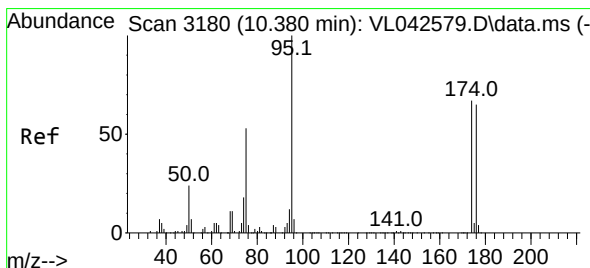
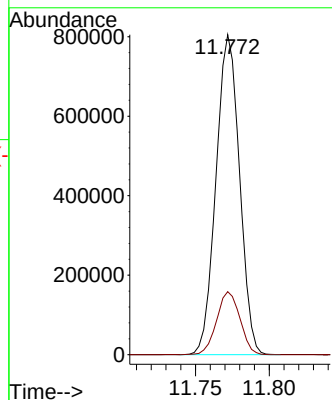
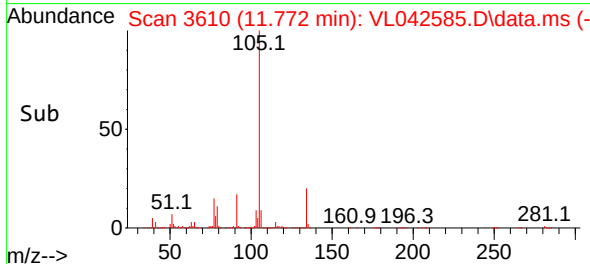
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



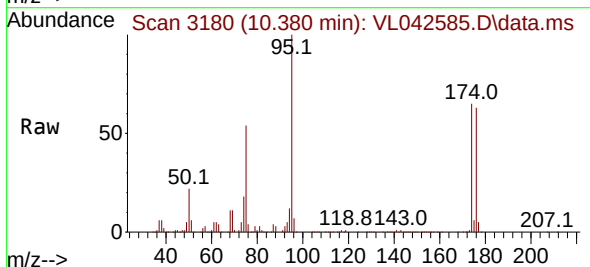
Tgt Ion:105 Resp: 892638
 Ion Ratio Lower Upper
 105 100
 134 19.6 15.8 23.6

Manual Integrations
 APPROVED

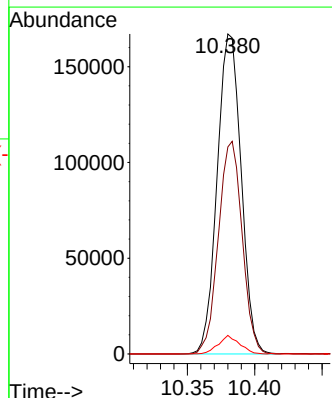
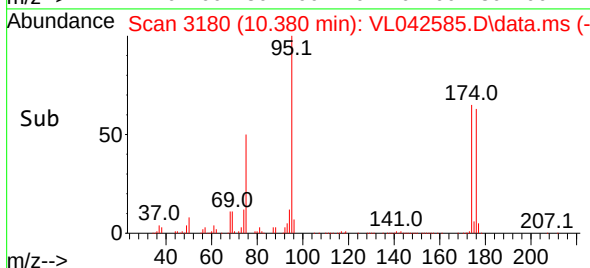
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

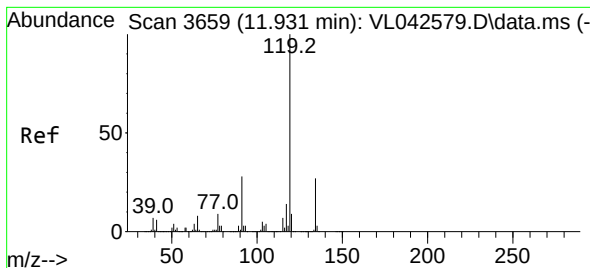


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.053 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24



Tgt Ion: 95 Resp: 207170
 Ion Ratio Lower Upper
 95 100
 174 65.7 53.1 79.7
 175 5.1 4.2 6.2





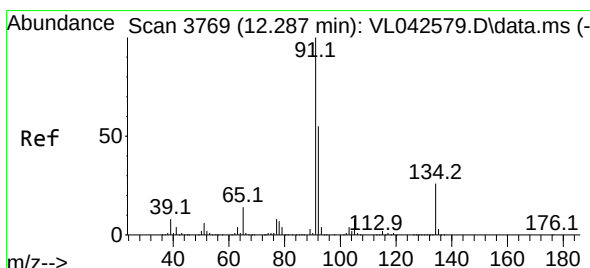
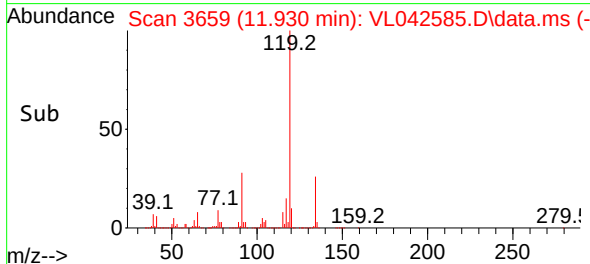
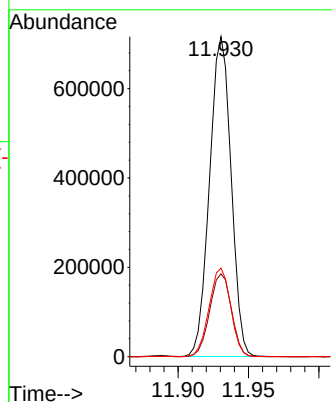
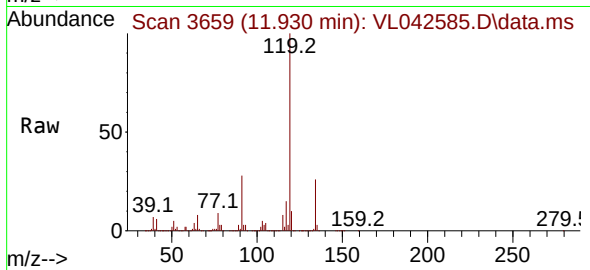
#69
p-Isopropyltoluene
Concen: 13.210 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:119 Resp: 763150
Ion Ratio Lower Upper
119 100
134 26.2 21.1 31.7
91 27.7 21.9 32.9

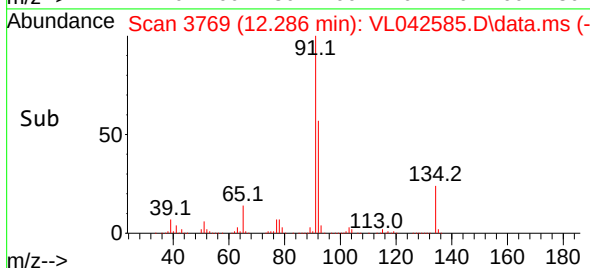
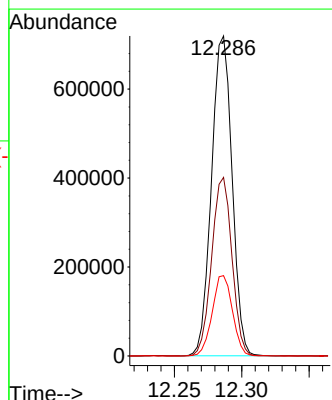
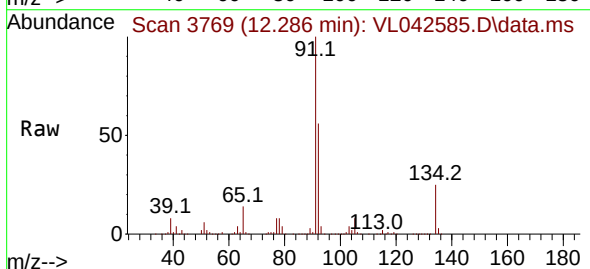
Manual Integrations
APPROVED

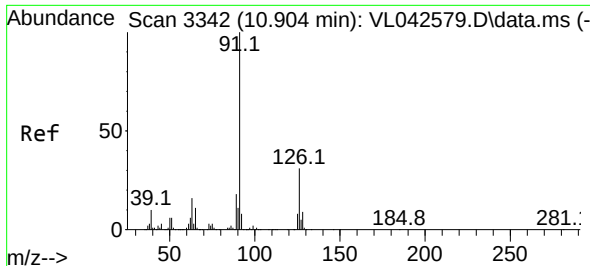
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#70
n-Butylbenzene
Concen: 13.401 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

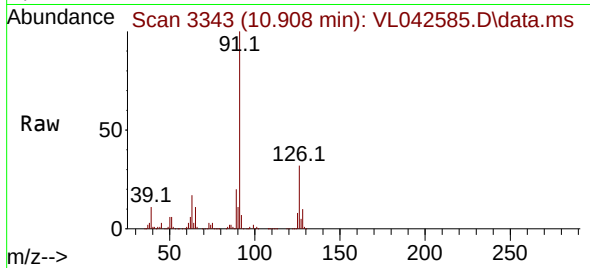
Tgt Ion: 91 Resp: 764173
Ion Ratio Lower Upper
91 100
92 55.2 44.4 66.6
134 24.8 20.1 30.1





#71
2-Chlorotoluene
Concen: 13.390 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

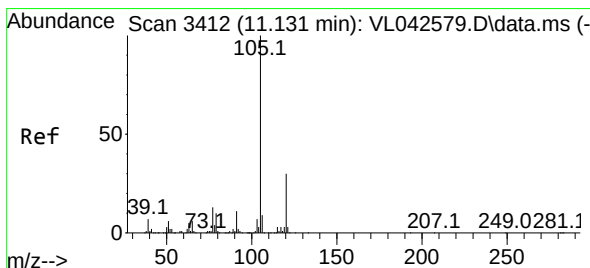
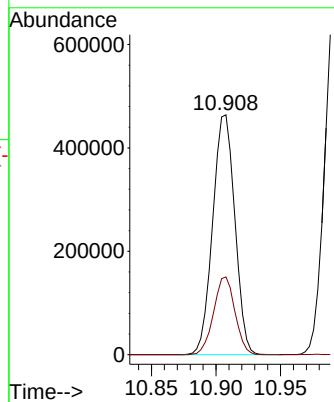
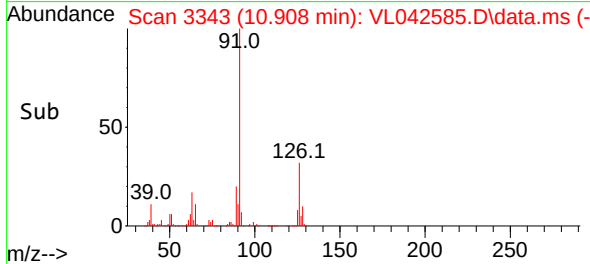
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



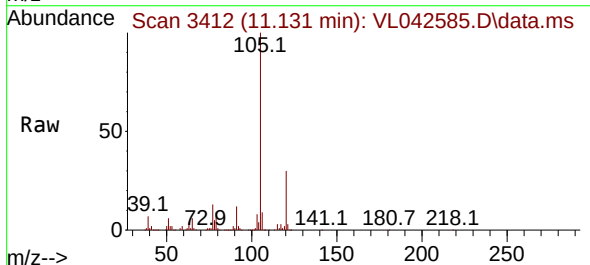
Tgt Ion: 91 Resp: 55226
Ion Ratio Lower Upper
91 100
126 31.3 12.6 50.4

Manual Integrations
APPROVED

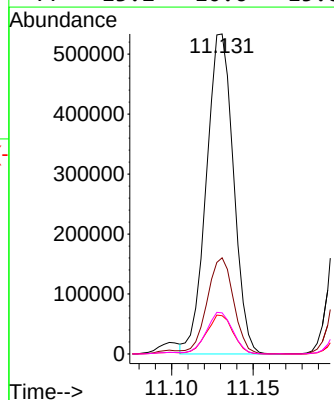
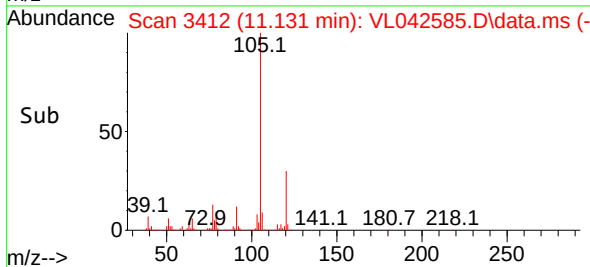
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

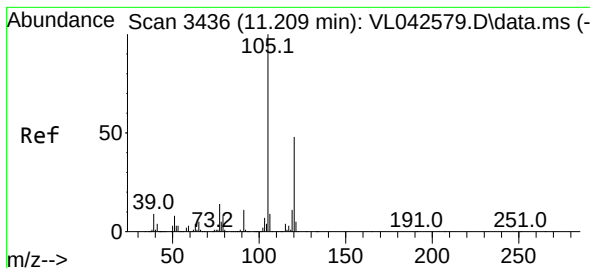


#72
4-Ethyltoluene
Concen: 13.504 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24



Tgt Ion:105 Resp: 616187
Ion Ratio Lower Upper
105 100
120 30.4 24.6 36.8
91 12.4 9.6 14.4
77 13.2 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 13.498 ppbv

RT: 11.209 min Scan# 3436

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:105 Resp: 50980

Ion Ratio Lower Upper

105 100

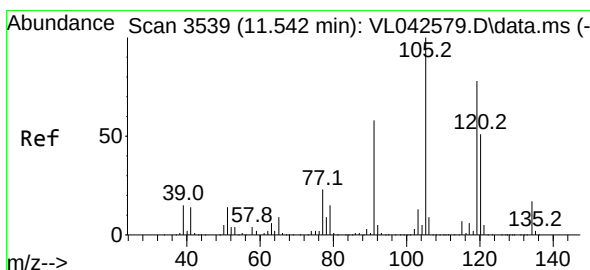
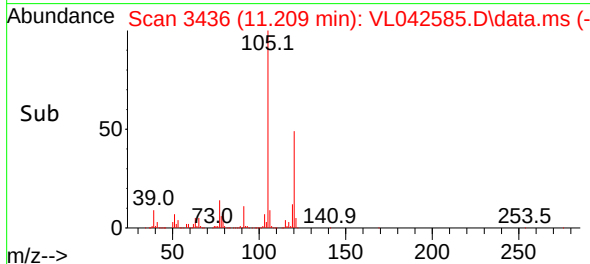
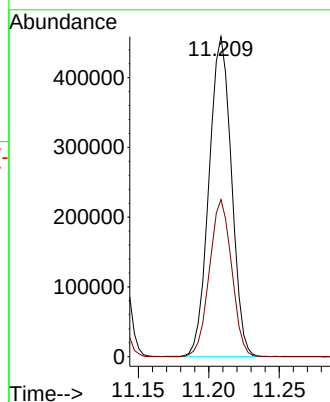
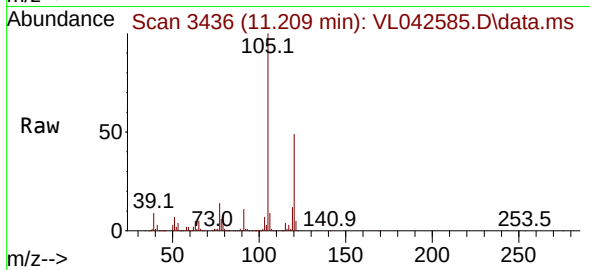
120 49.1 38.8 58.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#74

1,2,4-Trimethylbenzene

Concen: 12.854 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Tgt Ion:105 Resp: 538704

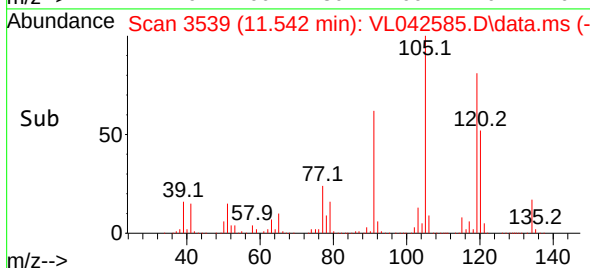
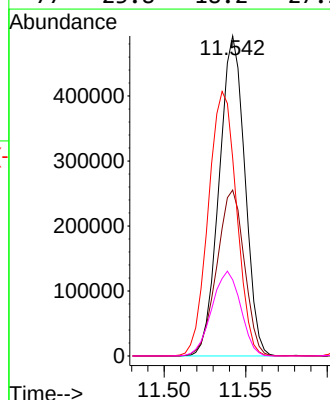
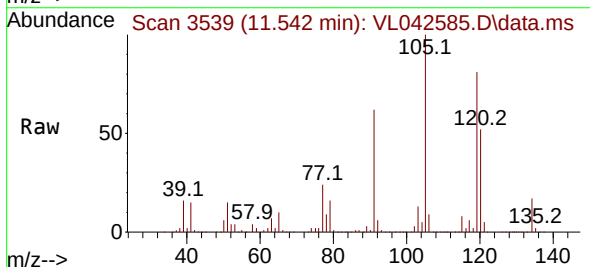
Ion Ratio Lower Upper

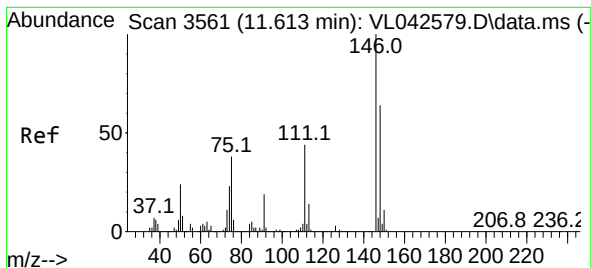
105 100

120 51.8 40.8 61.2

91 61.8 46.8 70.2

77 23.8 18.2 27.2





#75

1,3-Dichlorobenzene

Concen: 13.203 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

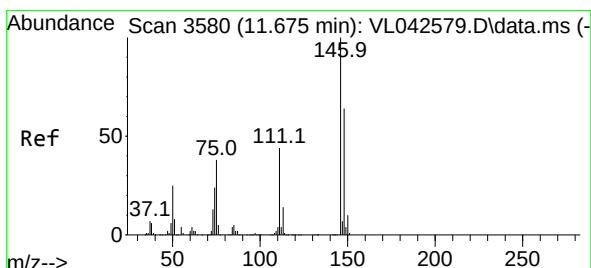
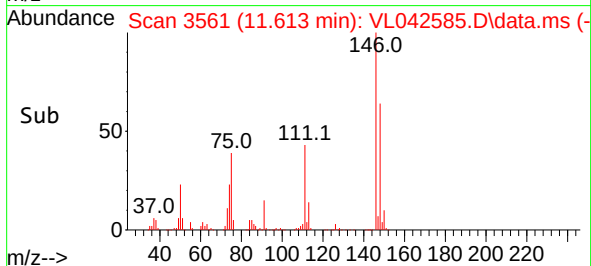
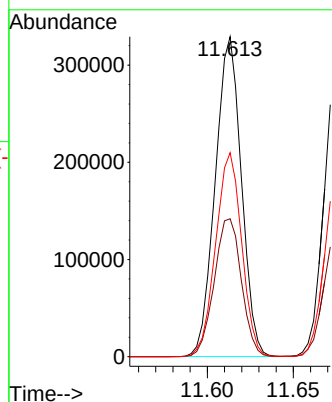
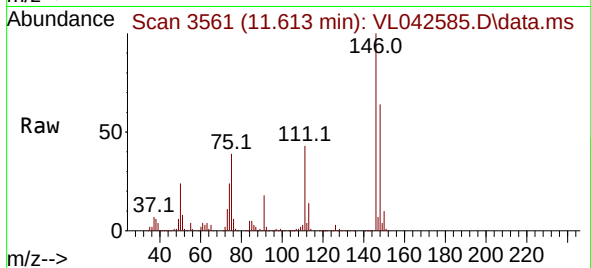
VSTDIC015

Tgt Ion:	146	Resp:	347478
Ion Ratio	Lower	Upper	
146	100		
111	44.9	22.4	67.3
148	63.6	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#76

1,4-Dichlorobenzene

Concen: 13.363 ppbv

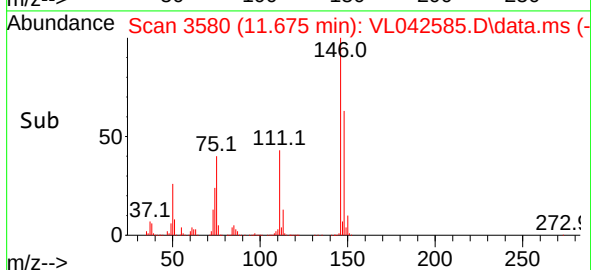
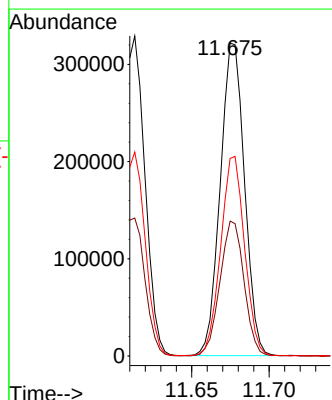
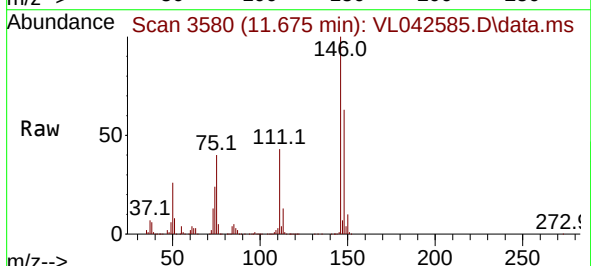
RT: 11.675 min Scan# 3580

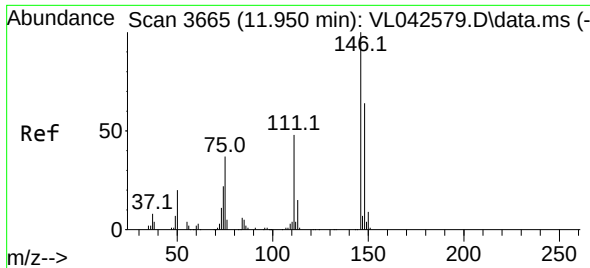
Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

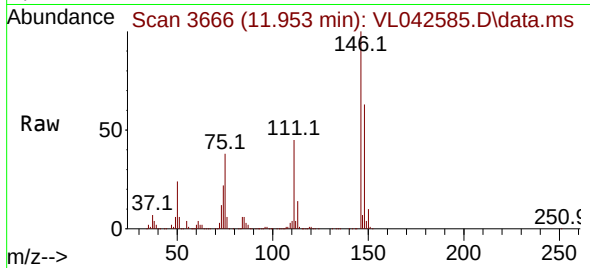
Tgt Ion:	146	Resp:	350757
Ion Ratio	Lower	Upper	
146	100		
111	43.0	21.6	64.8
148	63.2	32.1	96.5





#77
1,2-Dichlorobenzene
Concen: 12.800 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

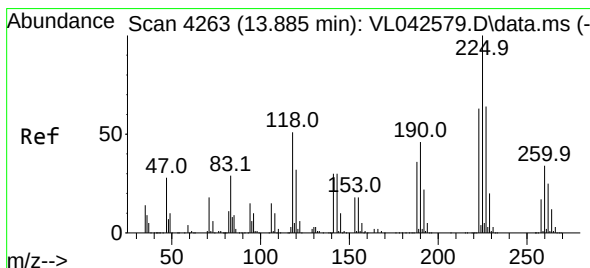
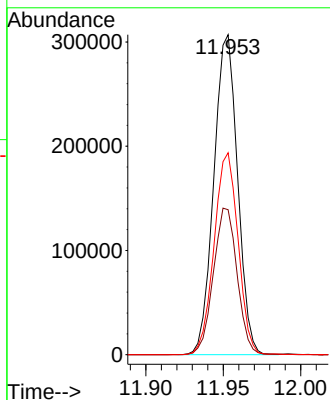
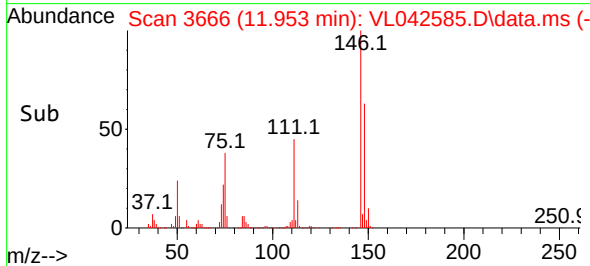
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



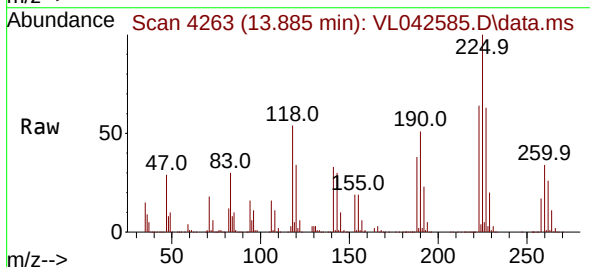
Tgt Ion:146 Resp: 326960
Ion Ratio Lower Upper
146 100
111 46.0 23.1 69.3
148 63.9 32.1 96.3

Manual Integrations
APPROVED

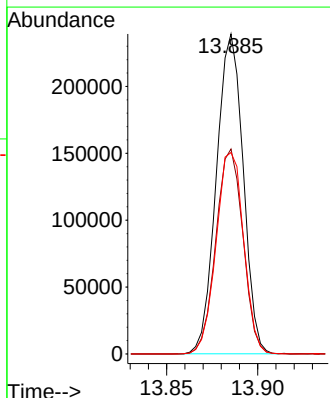
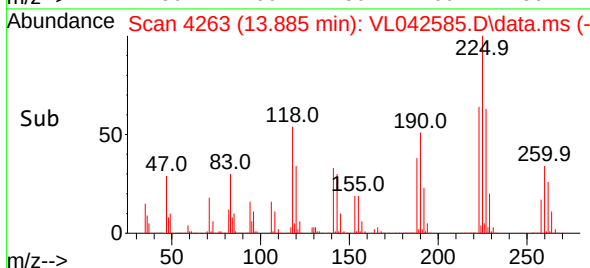
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

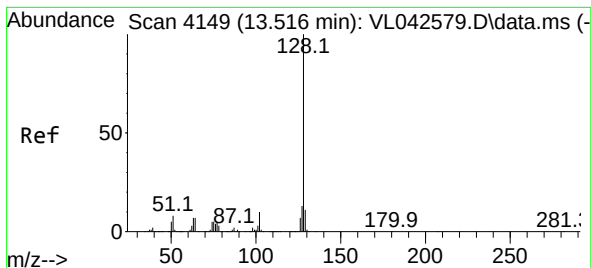


#78
Hexachloro-1,3-Butadiene
Concen: 11.563 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24



Tgt Ion:225 Resp: 244375
Ion Ratio Lower Upper
225 100
223 64.8 50.2 75.4
227 64.8 51.1 76.7





#79

Naphthalene

Concen: 14.318 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

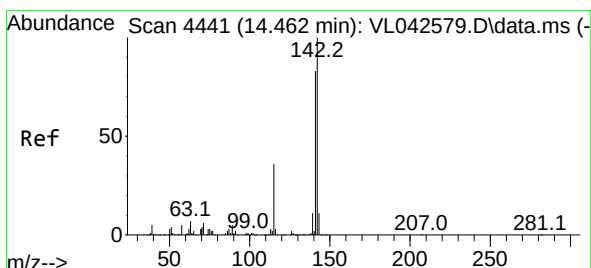
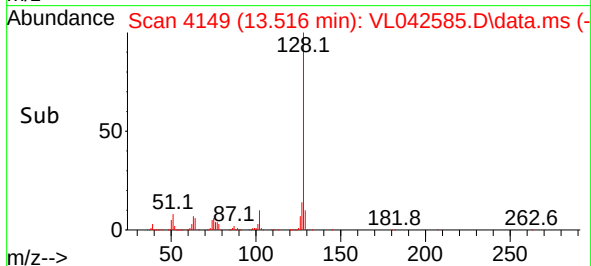
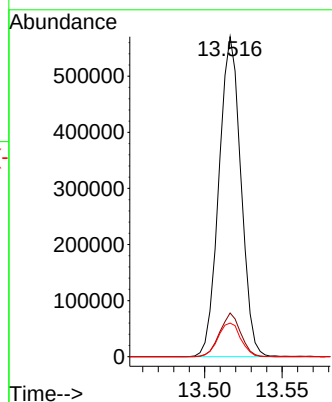
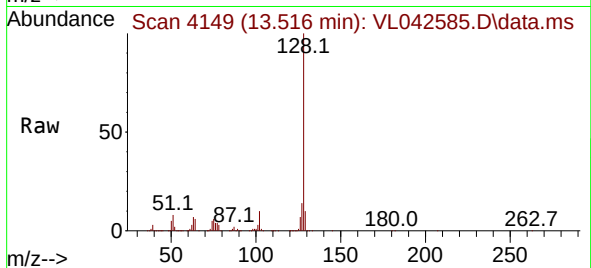
VSTDIC015

Tgt Ion:128	Resp: 56343
Ion Ratio	Lower Upper
128 100	
127 13.6	10.2 15.4
129 10.5	8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#80

Naphthalene,2-methyl-

Concen: 17.196 ppbv

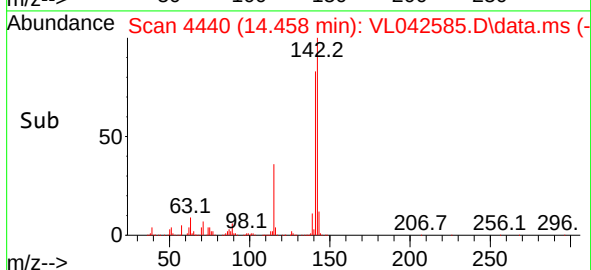
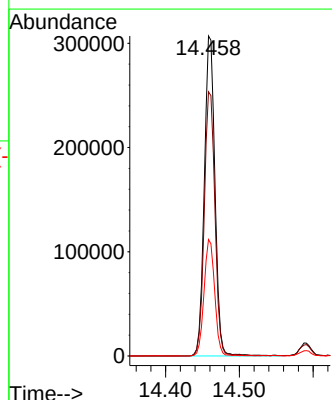
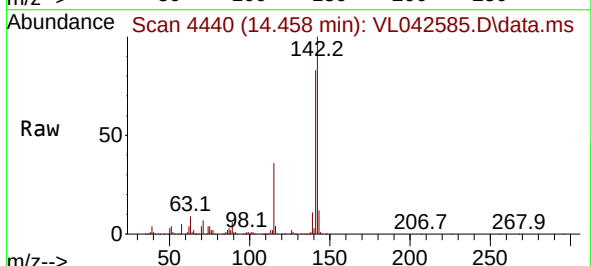
RT: 14.458 min Scan# 4440

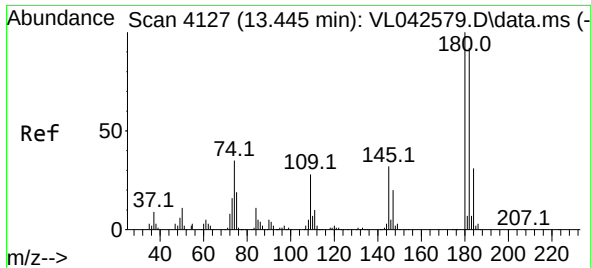
Delta R.T. -0.003 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Tgt Ion:142	Resp: 306586
Ion Ratio	Lower Upper
142 100	
141 83.4	66.2 99.4
115 36.6	28.3 42.5





#81

1,2,4-Trichlorobenzene

Concen: 13.598 ppbv

RT: 13.445 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042585.D

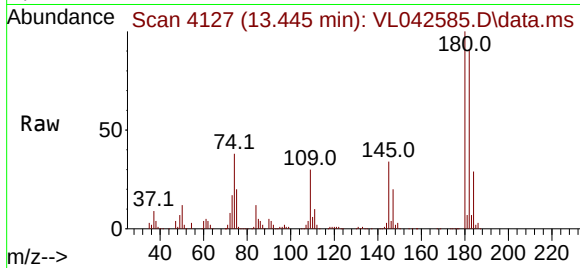
Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



Tgt Ion:180 Resp: 299869

Ion Ratio Lower Upper

180 100

182 94.5 75.0 112.4

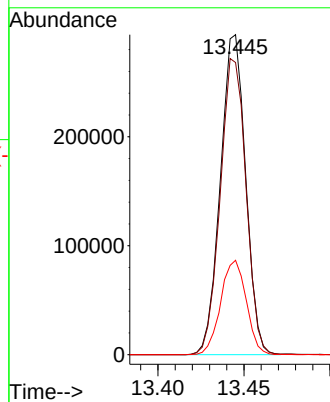
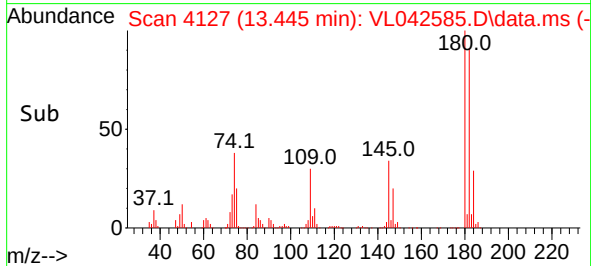
184 29.9 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 02:03:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	102428	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	301054	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	275875	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 203743 9.852 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	115266	9.156	ppbv	97
3) Chlorodifluoromethane	1.476	51	150107	8.658	ppbv	99
4) Chloromethane	1.534	50	45964	9.220	ppbv	99
5) Vinyl Chloride	1.583	62	43925	8.650	ppbv	98
6) Bromomethane	1.670	94	20899	8.455	ppbv	96
7) Chloroethane	1.706	64	16853	8.541	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	97812	9.325	ppbv	98
9) Propene	1.486	41	60663	8.688	ppbv	98
10) Heptane	4.991	43	179146	9.102	ppbv	99
11) Trichlorofluoromethane	1.881	101	111088	9.484	ppbv	97
12) 1,1,2-Trichlorotrifluoro...	2.143	101	90493	9.839	ppbv	98
13) Ethanol	1.722	45	5315m	6.387	ppbv	
14) Bromoethene	1.783	108	31882	9.215	ppbv	97
15) Acetone	1.838	43	93713	7.596	ppbv	99
16) 1,3-Butadiene	1.612	39	51473	8.807	ppbv	98
17) tert-Butyl alcohol	2.042	59	123536	9.611	ppbv	99
18) 1,1-Dichloroethene	2.036	96	40171	9.423	ppbv	94
19) Isopropyl Alcohol	1.887	45	65635	8.899	ppbv	99
20) Methylene Chloride	2.065	84	34380	8.444	ppbv	98
21) Allyl Chloride	2.097	41	80936	9.297	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	46389	9.742	ppbv	99
23) Vinyl Acetate	2.466	43	168496	10.103	ppbv	99
24) 1,1-Dichloroethane	2.411	63	92180	9.408	ppbv	99
25) Ethyl Acetate	2.839	43	309666	9.171	ppbv	99
26) Hexane	2.829	57	136378	8.889	ppbv	99
27) Carbon Disulfide	2.152	76	114756	9.743	ppbv #	92
28) Methyl tert-Butyl Ether	2.444	73	57913	9.302	ppbv	100
29) Chloroform	2.852	83	180696	9.057	ppbv	96
30) Cyclohexane	3.861	84	116986	9.198	ppbv	97
31) cis-1,2-Dichloroethene	2.725	61	130619	9.307	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	185017	9.077	ppbv	100
34) 2-Butanone	2.560	43	198226	9.233	ppbv	100
35) Carbon Tetrachloride	3.771	117	186286	9.374	ppbv	100
36) Benzene	3.664	78	274314	9.253	ppbv	99
37) 1,2-Dichloroethane	3.224	62	140785	9.555	ppbv	99
38) Trichloroethene	4.557	130	115086	9.133	ppbv	96
39) 1,2-Dichloropropane	4.324	63	98542	8.988	ppbv	99
40) 1,4-Dioxane	4.590	88	45655	9.306	ppbv #	99
41) Tetrahydrofuran	3.059	42	116984	9.309	ppbv	98
42) Bromodichloromethane	4.496	83	202489	9.676	ppbv	92
43) Methyl Methacrylate	4.891	69	108397	9.421	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	461095	9.093	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	125588m	9.538	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 02:03:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	156828	9.505	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	103138	9.088	ppbv	92
48) Dibromochloromethane	7.399	129	170606	9.391	ppbv	99
49) Bromoform	9.493	173	152725	9.742	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	278990	9.369	ppbv	100
51) 2-Hexanone	7.444	43	228036	9.655	ppbv	98
52) Tetrachloroethene	8.231	164	98872	8.925	ppbv	99
53) Toluene	6.943	91	319640	9.329	ppbv	99
54) 1,2-Dibromoethane	7.661	107	157298	9.364	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	127601	9.199	ppbv	97
57) Chlorobenzene	8.930	112	242533	9.054	ppbv	97
58) Ethyl Benzene	9.364	91	432250	9.237	ppbv	97
59) m/p-Xylene	9.558	91	676743m	18.377	ppbv	
60) o-Xylene	9.972	91	333107	9.069	ppbv	100
61) Styrene	9.878	104	163167	9.396	ppbv	100
62) Isopropylbenzene	10.545	105	491107	9.051	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	204322	8.749	ppbv	100
64) n-propylbenzene	10.995	120	131695	9.054	ppbv	100
65) tert-Butylbenzene	11.539	119	431251	8.758	ppbv	98
66) Benzyl Chloride	11.620	91	59801	9.435	ppbv	100
67) sec-Butylbenzene	11.772	105	607905	8.781	ppbv	99
69) p-Isopropyltoluene	11.930	119	512739	8.844	ppbv	100
70) n-Butylbenzene	12.286	91	514931	8.998	ppbv	100
71) 2-Chlorotoluene	10.908	91	377413	9.119	ppbv	99
72) 4-Ethyltoluene	11.131	105	412686	9.012	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	346043	9.131	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	371879	8.842	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	234703	8.886	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	237978	9.034	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	224400	8.754	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	169185	7.977	ppbv	99
79) Naphthalene	13.516	128	383192	9.666	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	194375	10.853	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	198696	8.978	ppbv	98

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

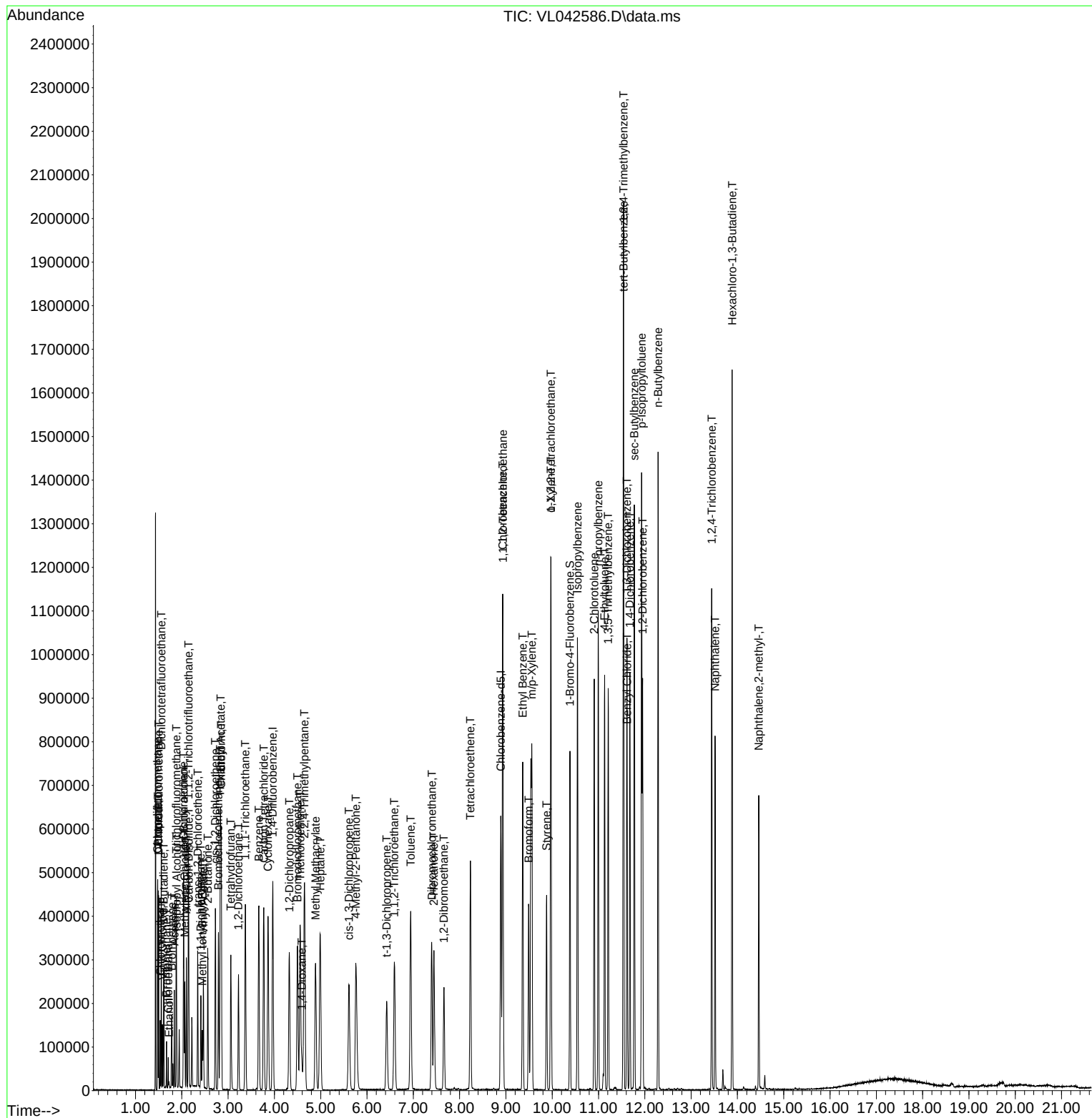
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Data File : VL042586.D
Acq On : 29 May 2025 14:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

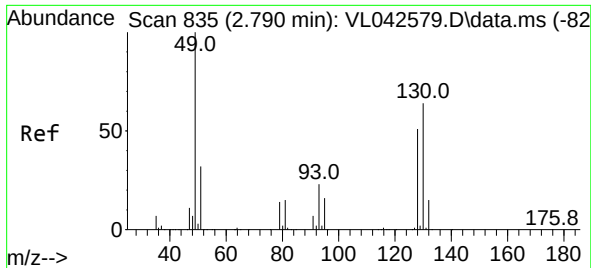
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

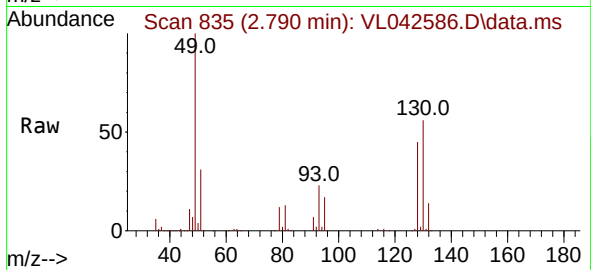
Quant Time: May 30 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

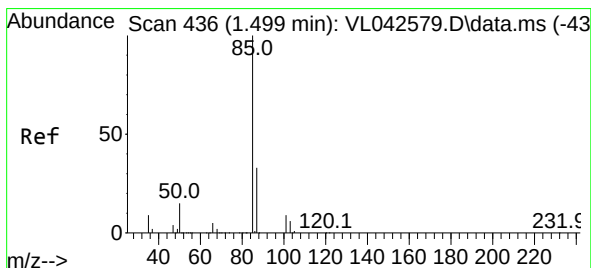
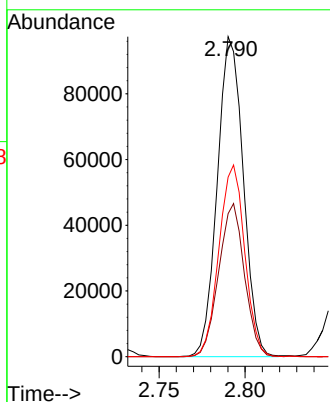
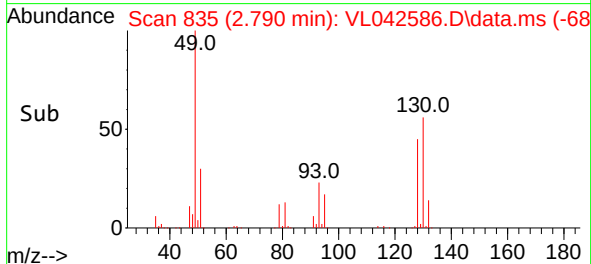
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925



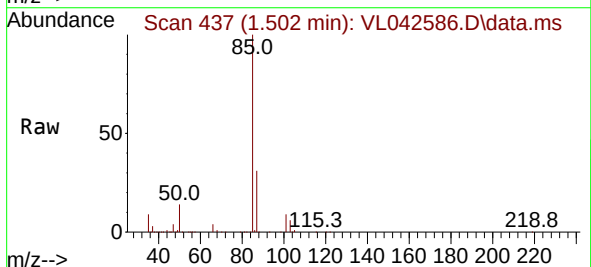
Tgt Ion: 49 Resp: 102428
Ion Ratio Lower Upper
49 100
128 47.4 24.2 72.6
130 59.4 30.4 91.2

Manual Integrations
APPROVED

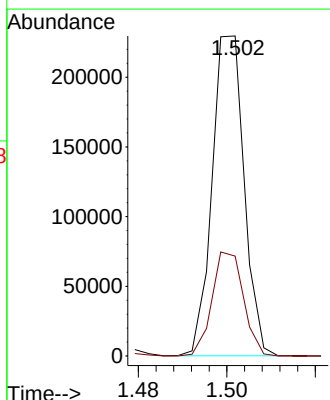
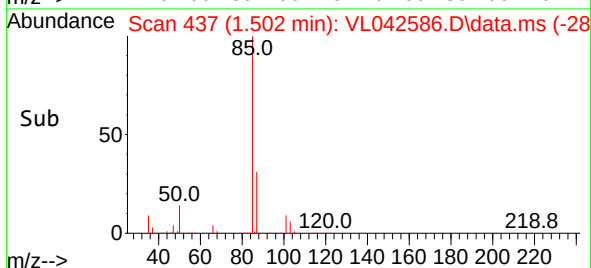
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

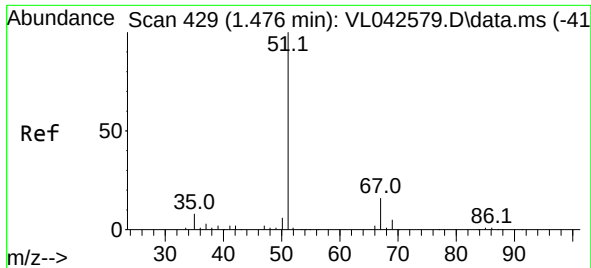


#2
Dichlorodifluoromethane
Concen: 9.156 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56



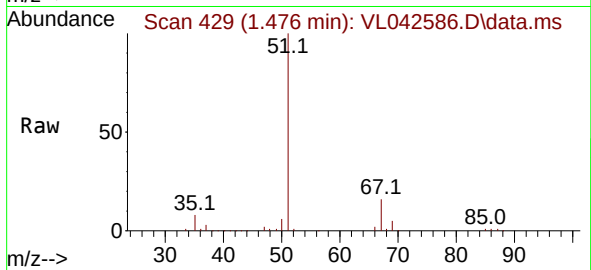
Tgt Ion: 85 Resp: 115266
Ion Ratio Lower Upper
85 100
87 31.2 26.6 39.8





#3
Chlorodifluoromethane
Concen: 8.658 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

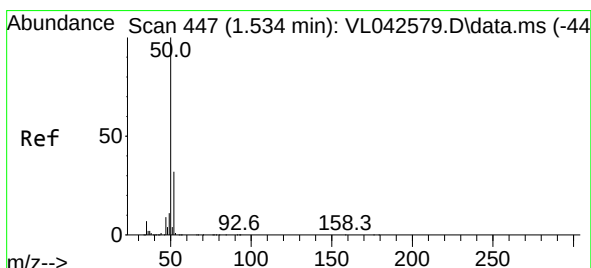
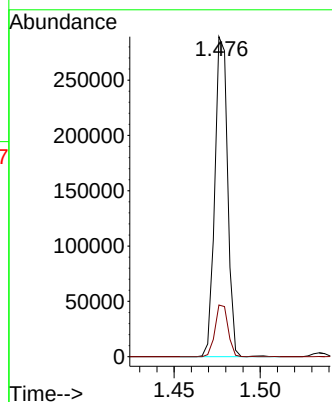
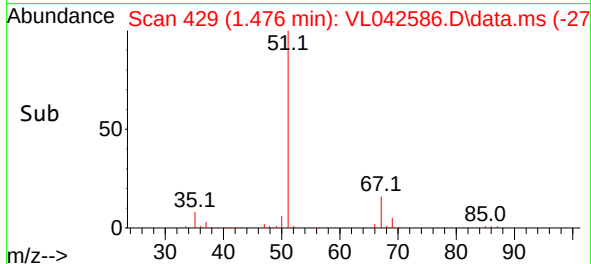
Instrument : MSVOA_L
ClientSampleId : ICVVL052925



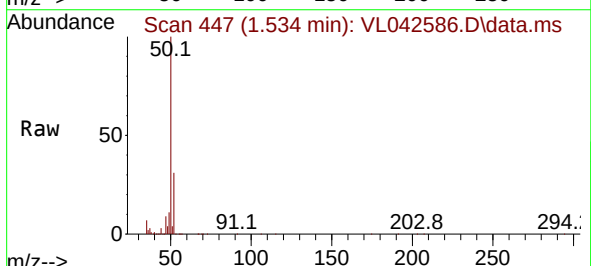
Tgt Ion: 51 Resp: 150107
Ion Ratio Lower Upper
51 100
67 16.5 13.4 20.2

Manual Integrations
APPROVED

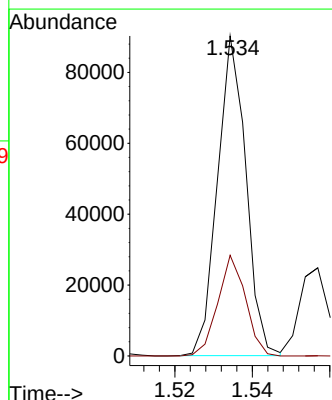
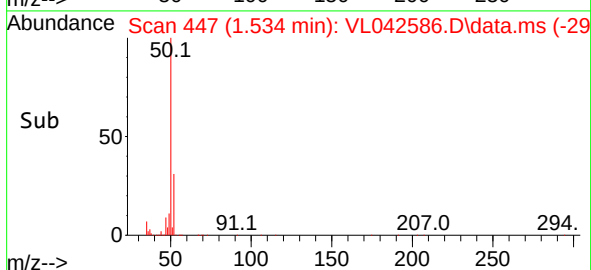
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

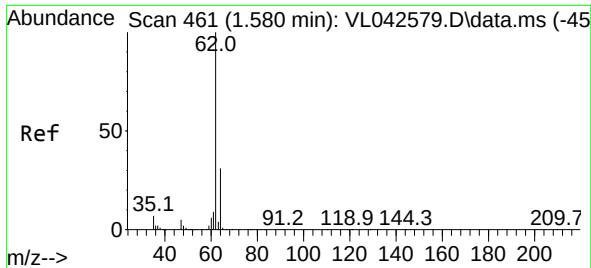


#4
Chloromethane
Concen: 9.220 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56



Tgt Ion: 50 Resp: 45964
Ion Ratio Lower Upper
50 100
52 31.5 25.8 38.6





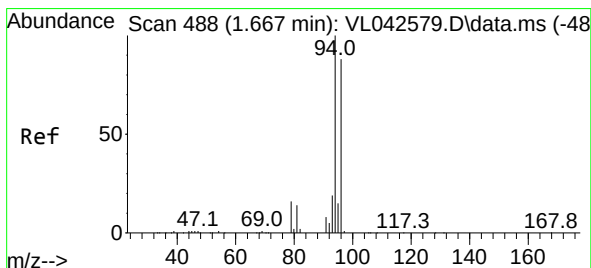
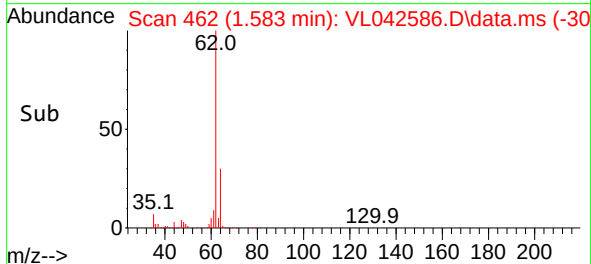
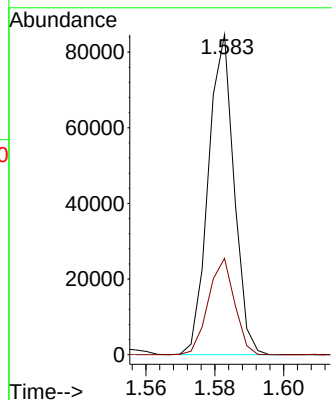
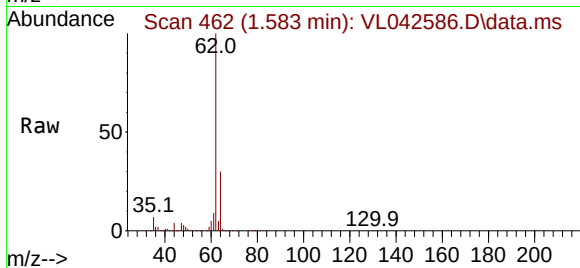
#5
 Vinyl Chloride
 Concen: 8.650 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.003 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Tgt Ion: 62 Resp: 43925
 Ion Ratio Lower Upper
 62 100
 64 30.1 24.9 37.3

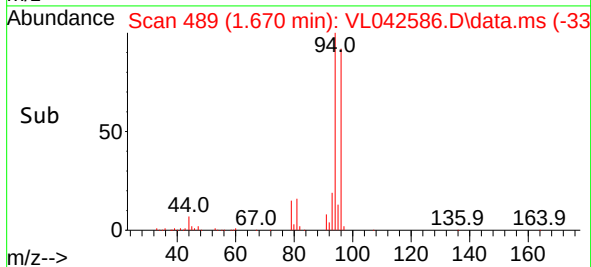
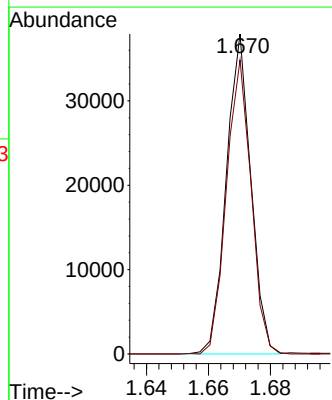
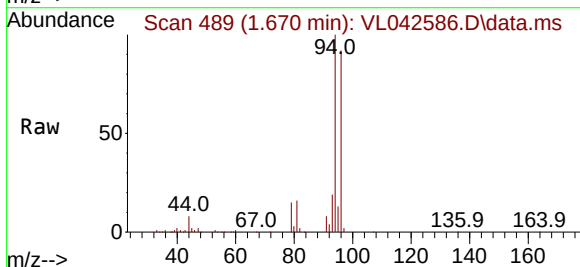
Manual Integrations
 APPROVED

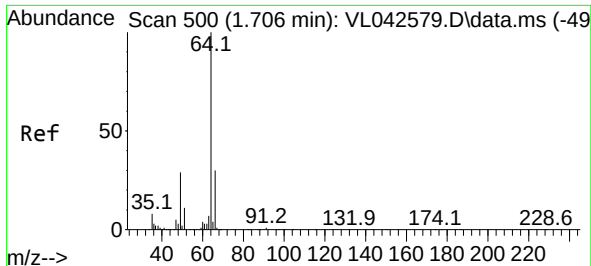
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#6
 Bromomethane
 Concen: 8.455 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

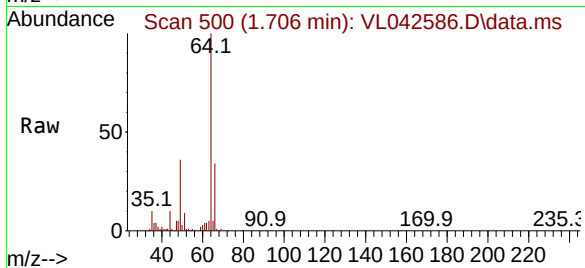
Tgt Ion: 94 Resp: 20899
 Ion Ratio Lower Upper
 94 100
 96 91.9 70.7 106.1





#7
Chloroethane
Concen: 8.541 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

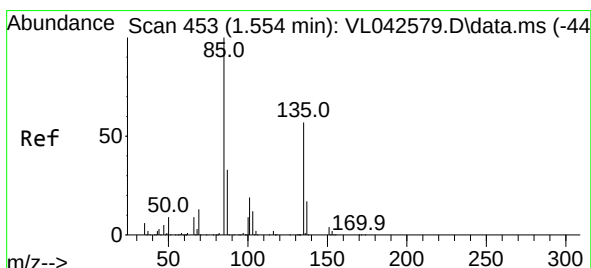
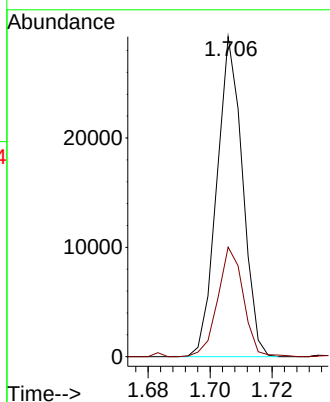
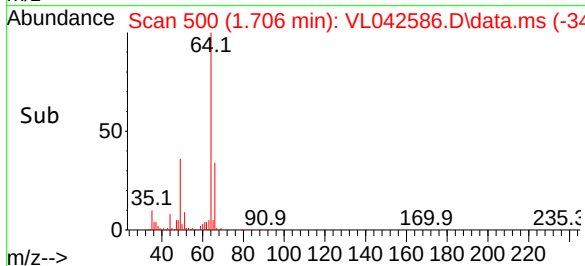
Instrument : MSVOA_L
ClientSampleId : ICVVL052925



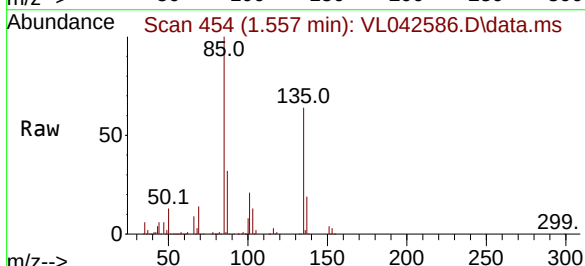
Tgt Ion: 64 Resp: 1685
Ion Ratio Lower Upper
64 100
66 34.3 24.3 36.5

Manual Integrations
APPROVED

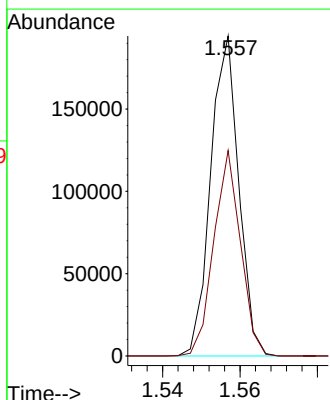
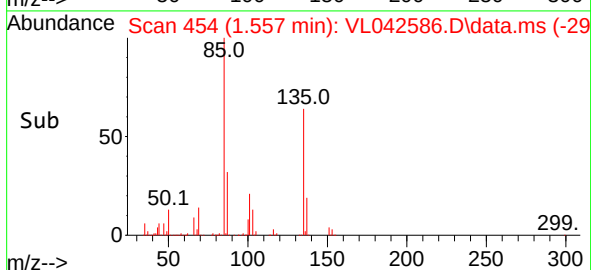
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

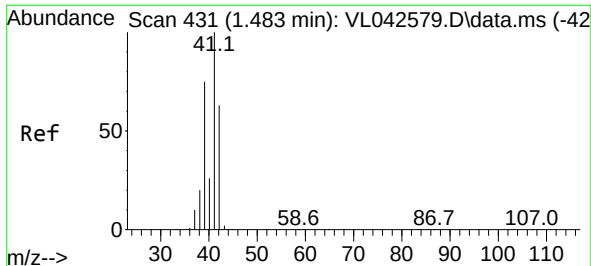


#8
Dichlorotetrafluoroethane
Concen: 9.325 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56



Tgt Ion: 85 Resp: 97812
Ion Ratio Lower Upper
85 100
135 61.2 50.2 75.4





#9

Propene

Concen: 8.688 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL052925

Tgt Ion: 41 Resp: 6066

Ion Ratio Lower Upper

41 100

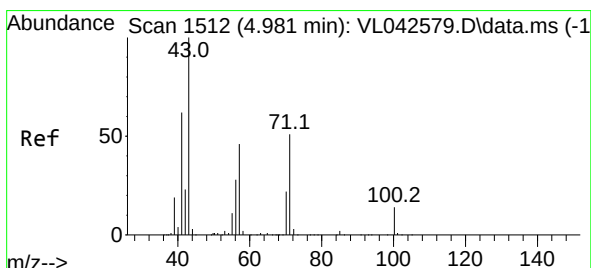
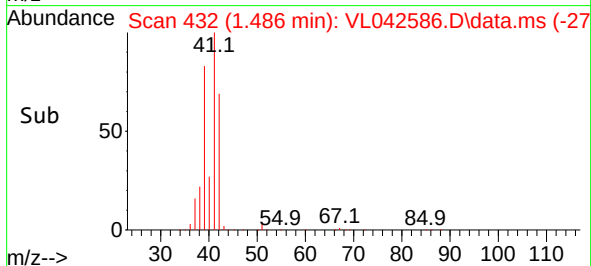
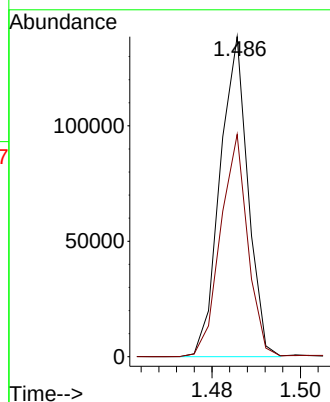
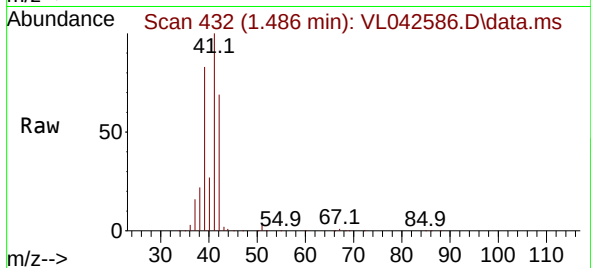
42 68.4 53.3 79.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#10

Heptane

Concen: 9.102 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.010 min

Lab File: VL042586.D

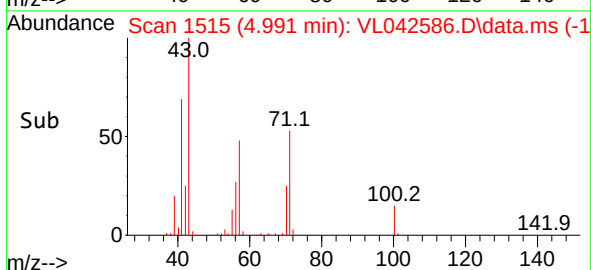
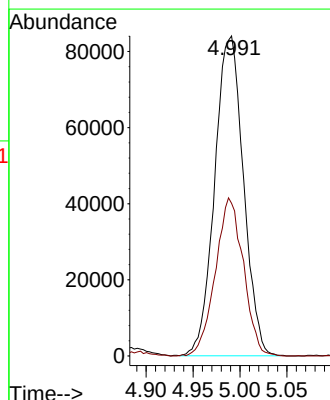
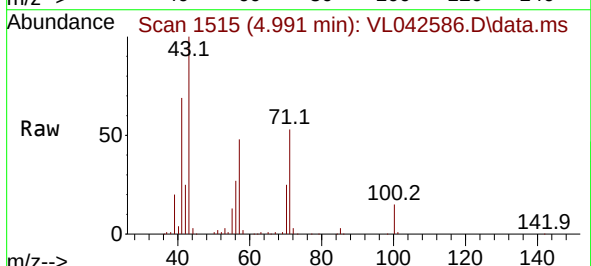
Acq: 29 May 2025 14:56

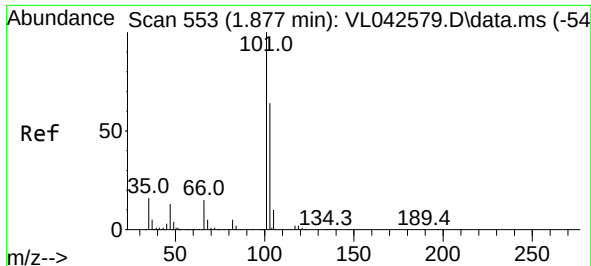
Tgt Ion: 43 Resp: 179146

Ion Ratio Lower Upper

43 100

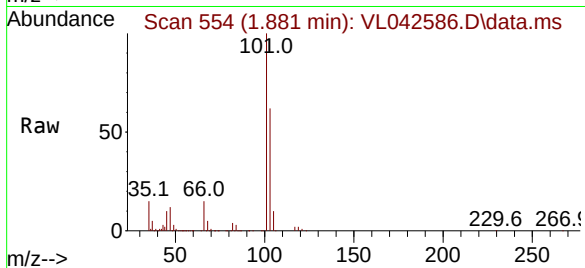
57 48.0 38.9 58.3





#11
 Trichlorofluoromethane
 Concen: 9.484 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

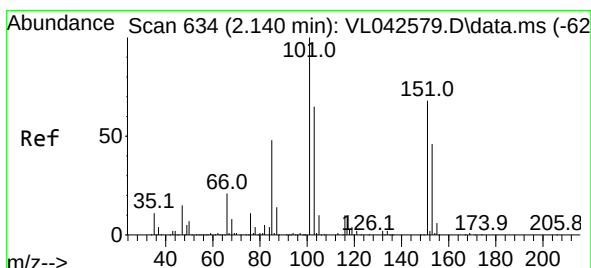
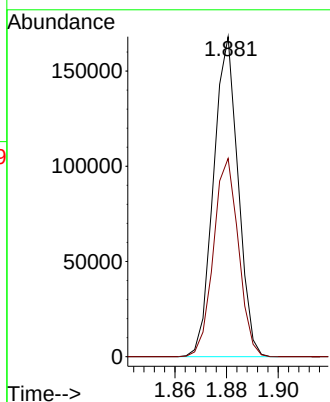
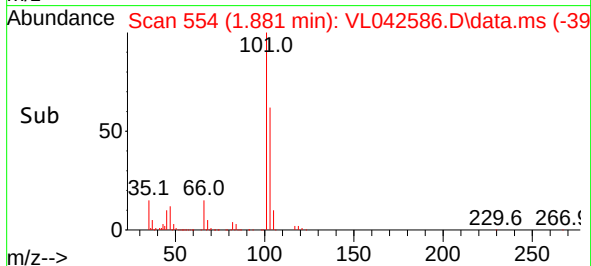
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925



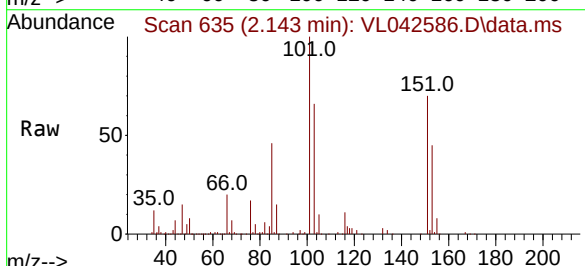
Tgt Ion:101 Resp: 111088
 Ion Ratio Lower Upper
 101 100
 103 61.9 51.5 77.3

Manual Integrations
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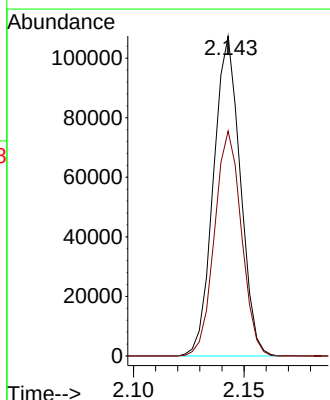
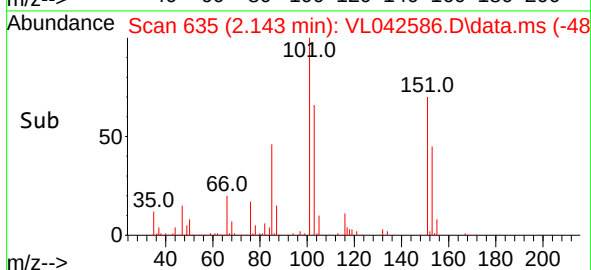
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

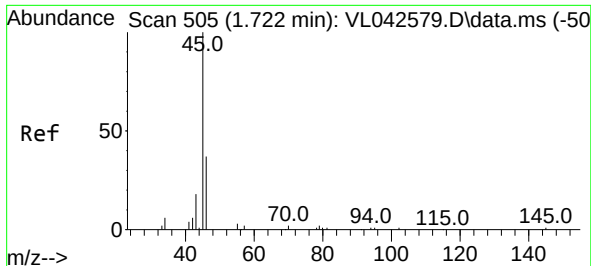


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.839 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.003 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56



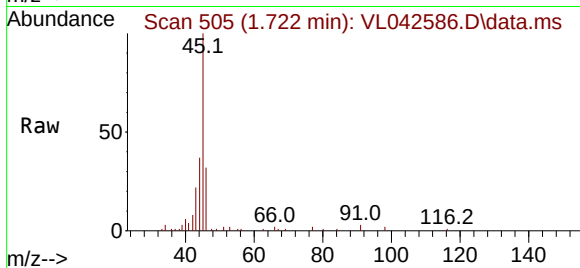
Tgt Ion:101 Resp: 90493
 Ion Ratio Lower Upper
 101 100
 151 70.4 55.3 82.9





#13
Ethanol
Concen: 6.387 ppbv m
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

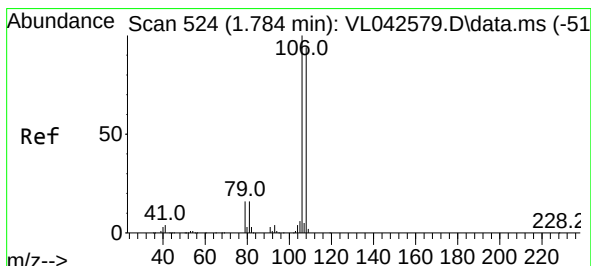
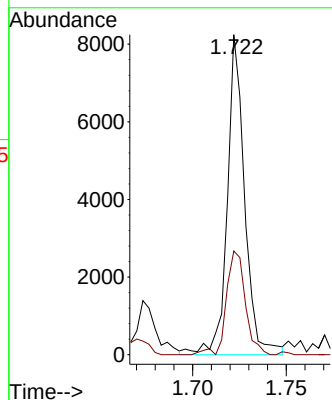
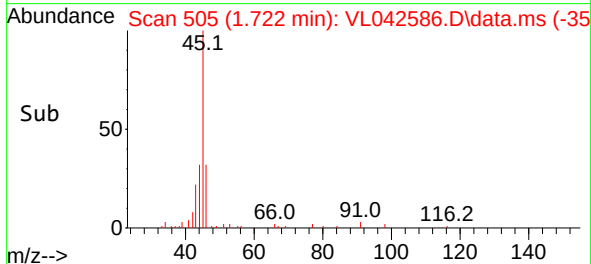
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925



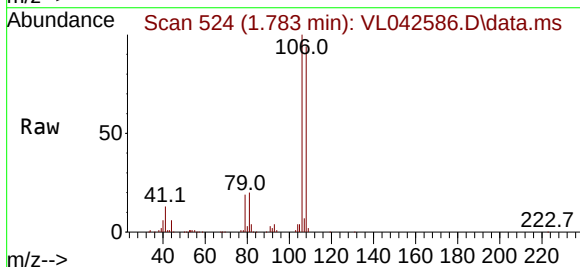
Tgt Ion: 45 Resp: 531
Ion Ratio Lower Upper
45 100
46 35.6 14.5 58.1

Manual Integrations
APPROVED

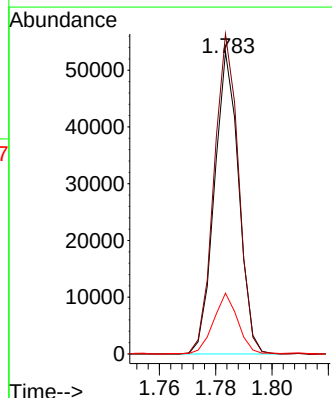
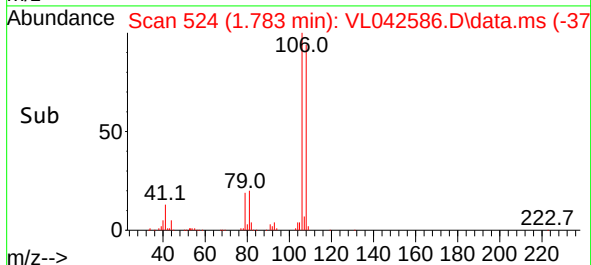
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

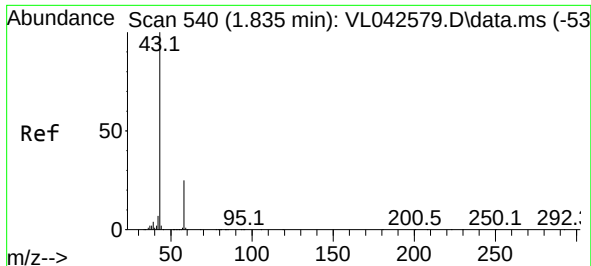


#14
Bromoethene
Concen: 9.215 ppbv
RT: 1.783 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56



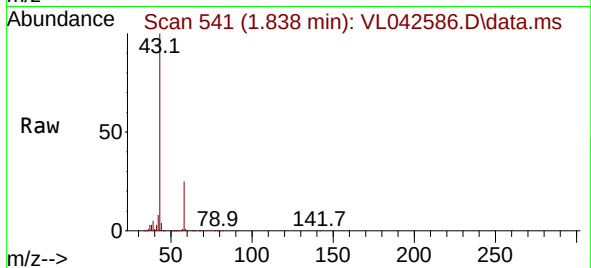
Tgt Ion:108 Resp: 31882
Ion Ratio Lower Upper
108 100
106 106.8 87.9 131.9
79 21.2 15.6 23.4





#15
Acetone
Concen: 7.596 ppbv
RT: 1.838 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

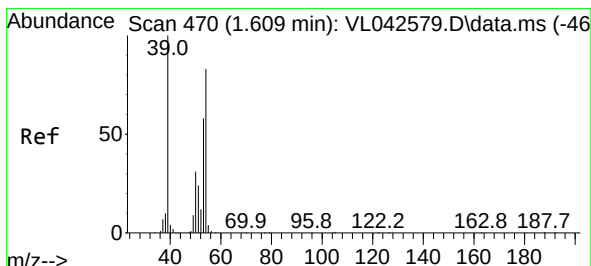
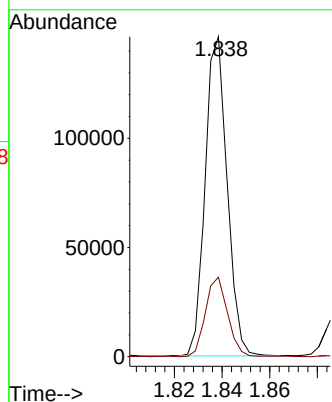
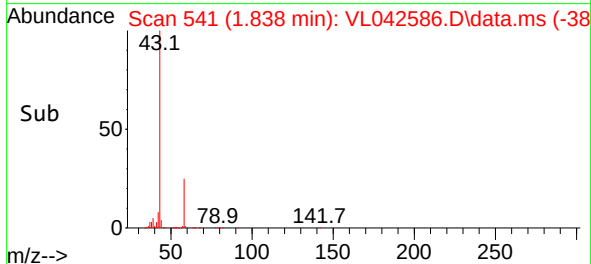
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925



Tgt Ion: 43 Resp: 93711
Ion Ratio Lower Upper
43 100
58 25.5 21.0 31.4

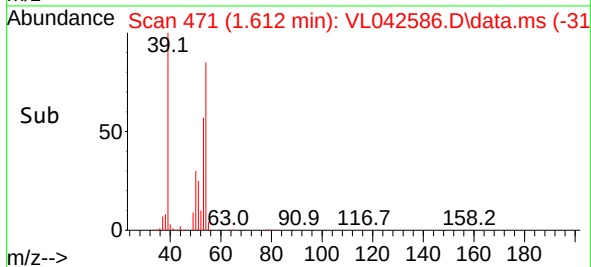
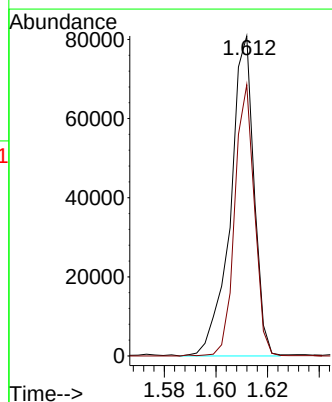
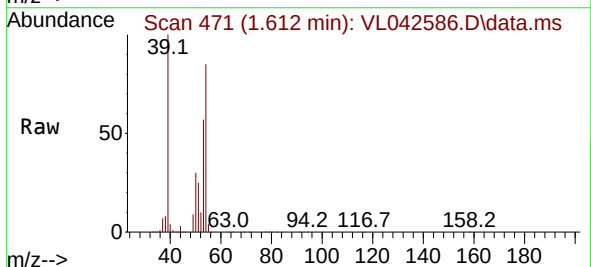
Manual Integrations
APPROVED

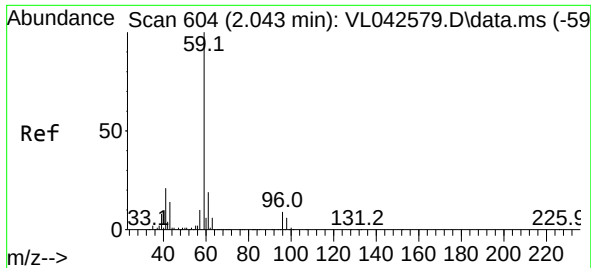
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#16
1,3-Butadiene
Concen: 8.807 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

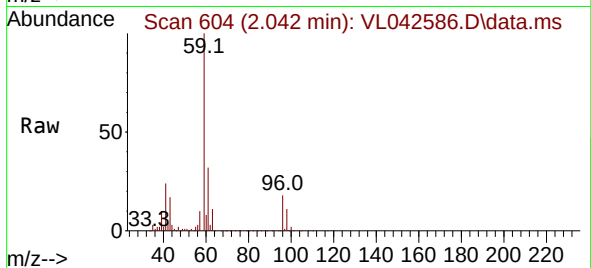
Tgt Ion: 39 Resp: 51473
Ion Ratio Lower Upper
39 100
54 70.6 57.9 86.9





#17
tert-Butyl alcohol
Concen: 9.611 ppbv
RT: 2.042 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

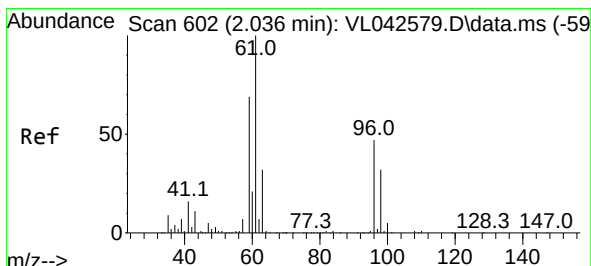
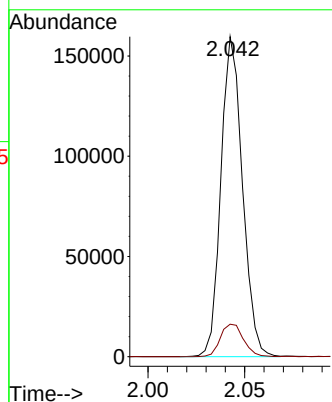
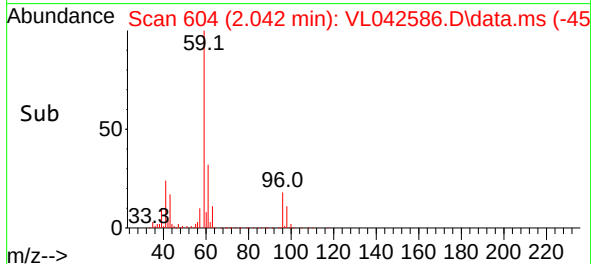
Instrument : MSVOA_L
ClientSampleId : ICVVL052925



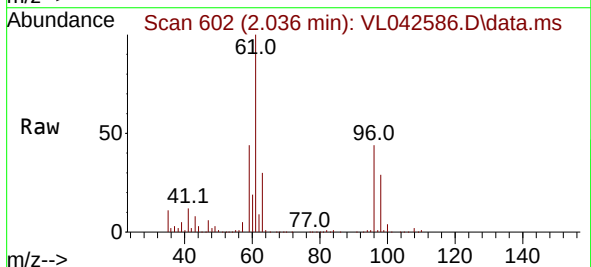
Tgt Ion: 59 Resp: 123530
Ion Ratio Lower Upper
59 100
57 11.0 8.6 12.8

Manual Integrations
APPROVED

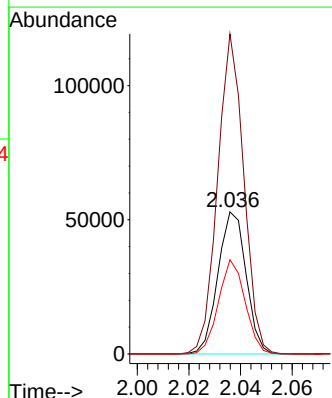
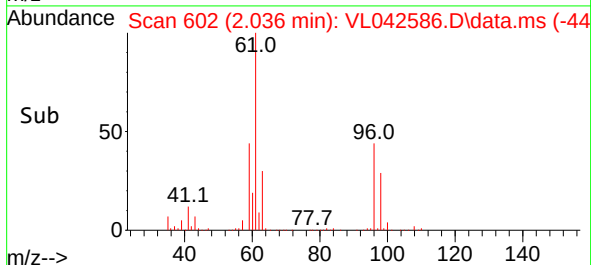
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

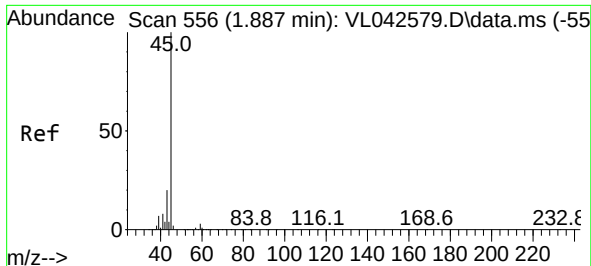


#18
1,1-Dichloroethene
Concen: 9.423 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56



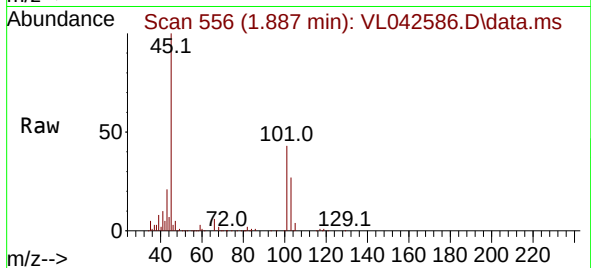
Tgt Ion: 96 Resp: 40171
Ion Ratio Lower Upper
96 100
61 225.1 171.1 256.7
98 66.4 54.4 81.6





#19
Isopropyl Alcohol
Concen: 8.899 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

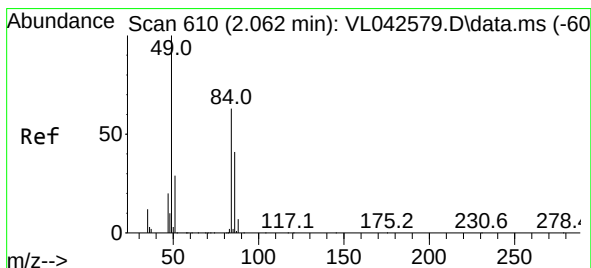
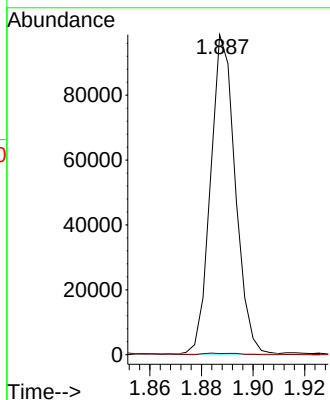
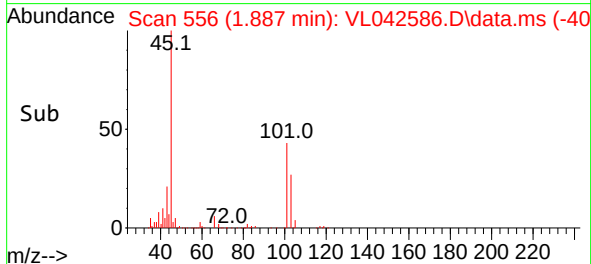
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925



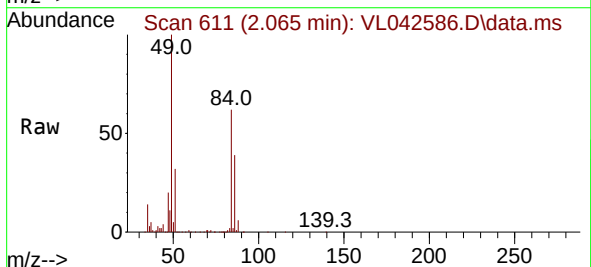
Tgt Ion: 45 Resp: 65635
Ion Ratio Lower Upper
45 100
58 36.5 29.4 44.2

Manual Integrations
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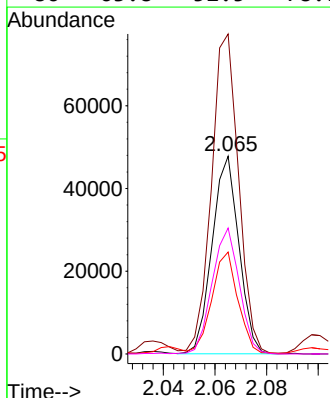
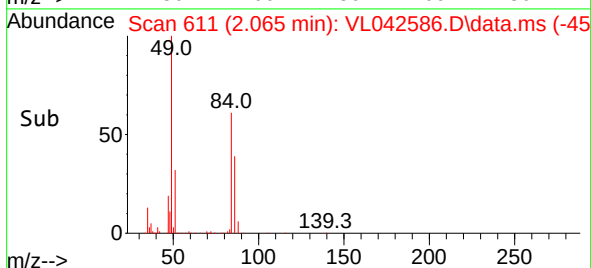
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

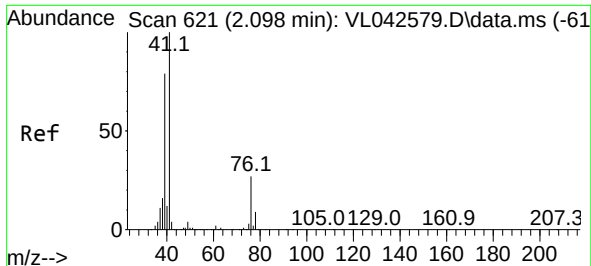


#20
Methylene Chloride
Concen: 8.444 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56



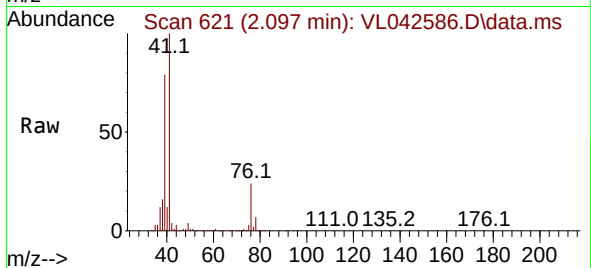
Tgt Ion: 84 Resp: 34380
Ion Ratio Lower Upper
84 100
49 161.6 128.8 193.2
51 51.3 38.6 57.8
86 63.8 52.5 78.7





#21
 Allyl Chloride
 Concen: 9.297 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

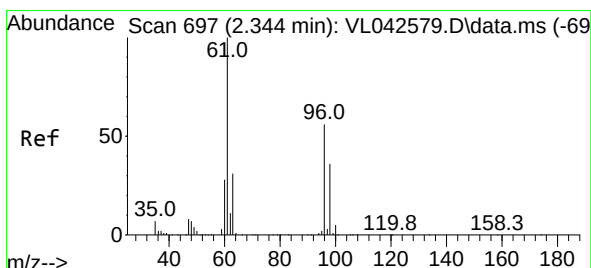
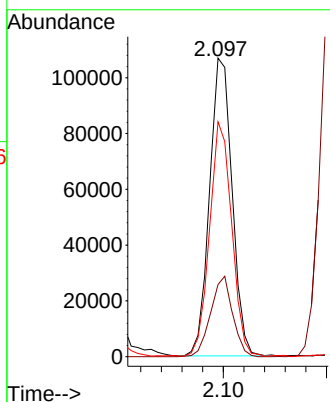
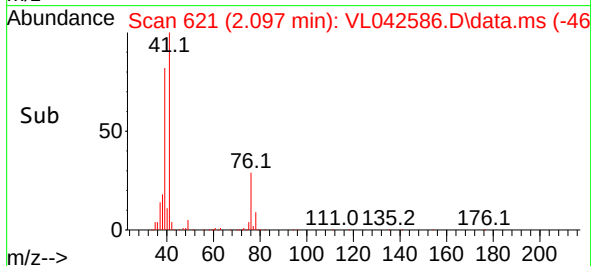
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925



Tgt Ion: 41 Resp: 80930
 Ion Ratio Lower Upper
 41 100
 76 26.2 21.2 31.8
 39 78.2 60.9 91.3

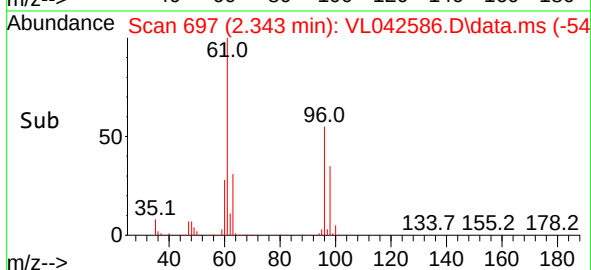
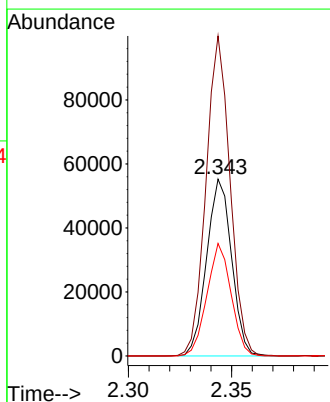
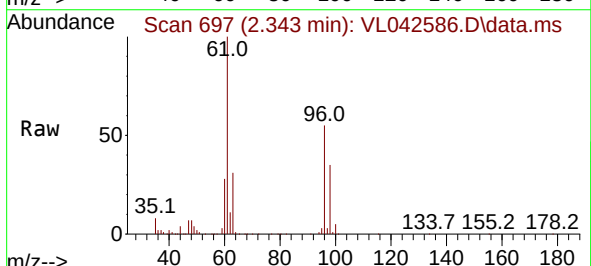
Manual Integrations
 APPROVED

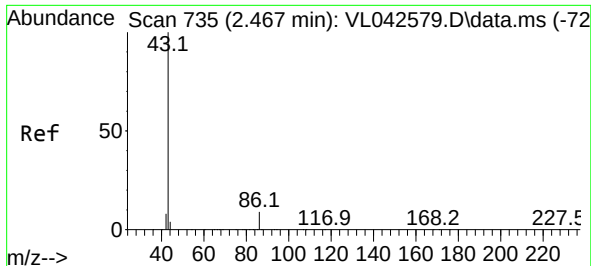
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.742 ppbv
 RT: 2.343 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

Tgt Ion: 96 Resp: 46389
 Ion Ratio Lower Upper
 96 100
 61 180.9 142.6 214.0
 98 63.6 51.0 76.4





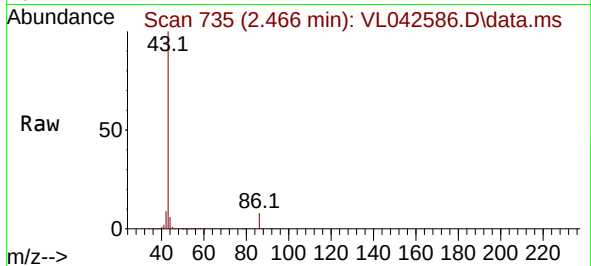
#23
 Vinyl Acetate
 Concen: 10.103 ppbv
 RT: 2.466 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

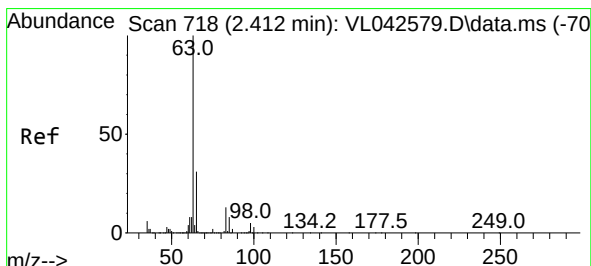
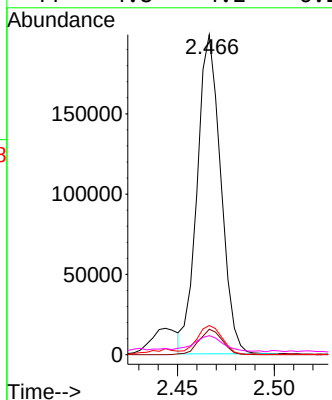
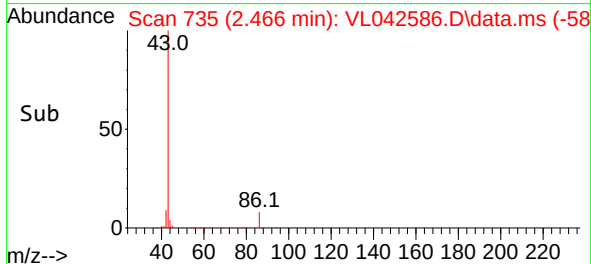
ICVVL052925



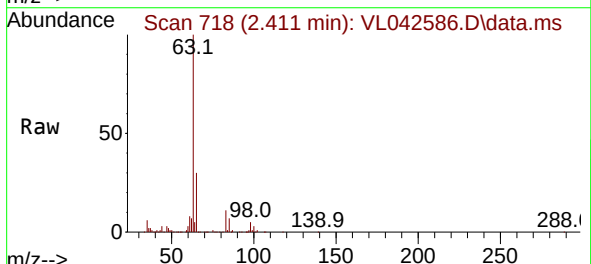
Tgt Ion: 43 Resp: 168490
 Ion Ratio Lower Upper
 43 100
 86 8.0 6.6 9.8
 42 9.0 7.0 10.4
 44 4.8 4.2 6.2

Manual Integrations
 APPROVED

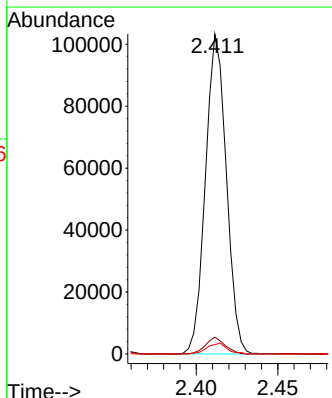
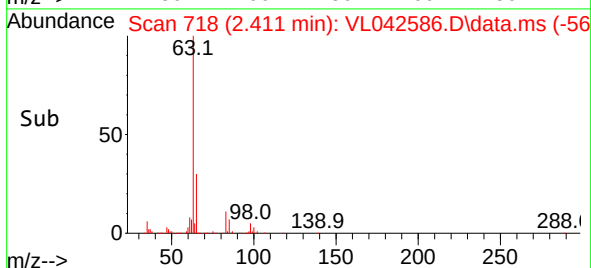
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

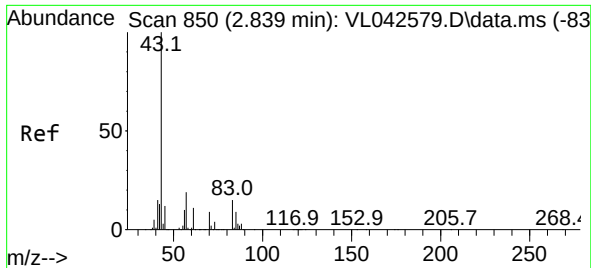


#24
 1,1-Dichloroethane
 Concen: 9.408 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56



Tgt Ion: 63 Resp: 92180
 Ion Ratio Lower Upper
 63 100
 98 5.2 2.4 7.1
 100 2.9 1.4 4.0





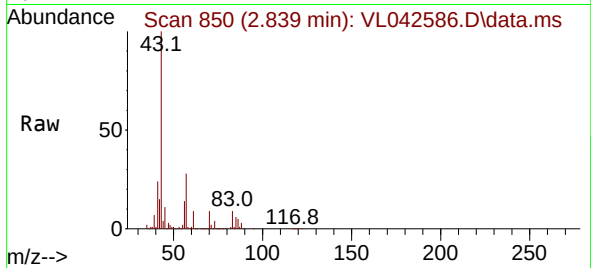
#25
Ethyl Acetate
Concen: 9.171 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

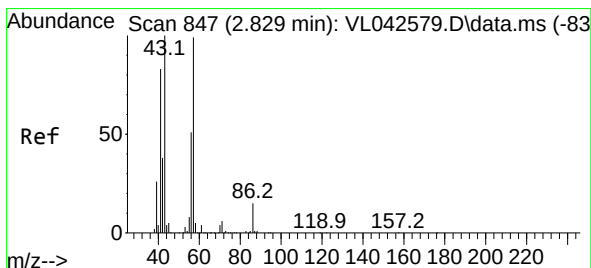
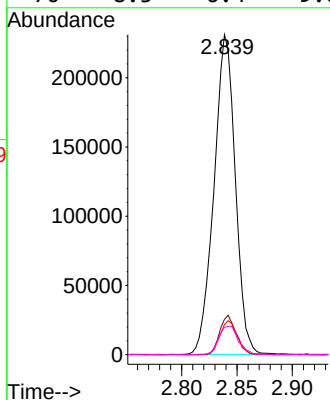
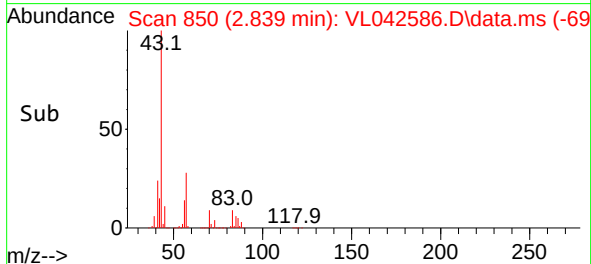
ICVVL052925



Tgt Ion	Ratio	Lower	Upper
43	100		
45	9.7	8.2	12.2
61	8.6	7.1	10.7
70	8.3	6.4	9.6

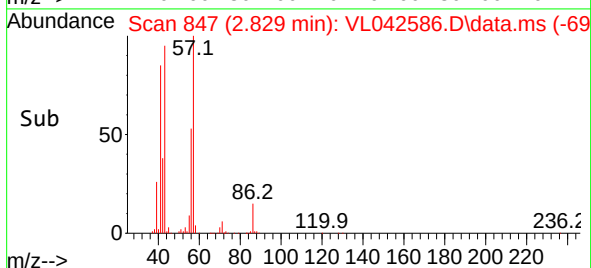
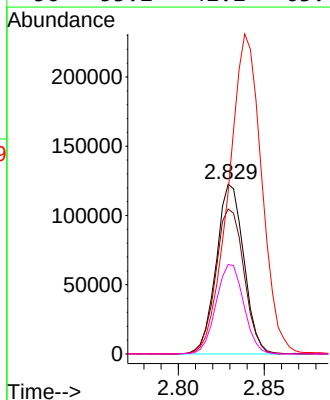
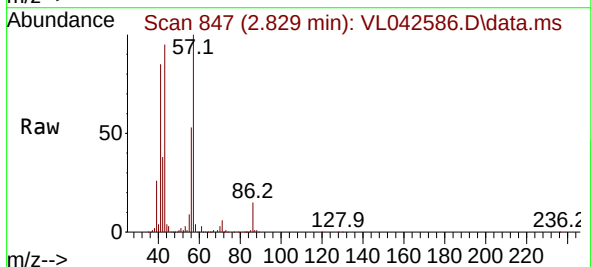
Manual Integrations
APPROVED

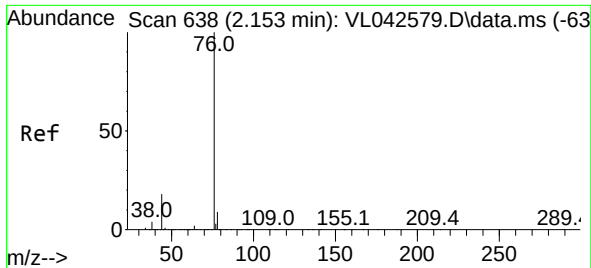
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#26
Hexane
Concen: 8.889 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

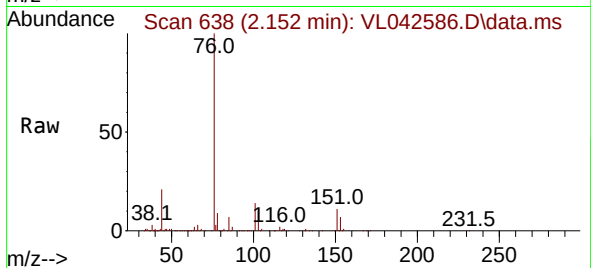
Tgt Ion	Ratio	Lower	Upper
57	100		
41	88.9	70.6	106.0
43	227.4	181.1	271.7
56	53.2	42.2	63.4





#27
Carbon Disulfide
Concen: 9.743 ppbv
RT: 2.152 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

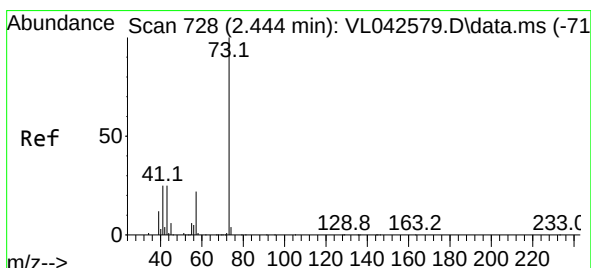
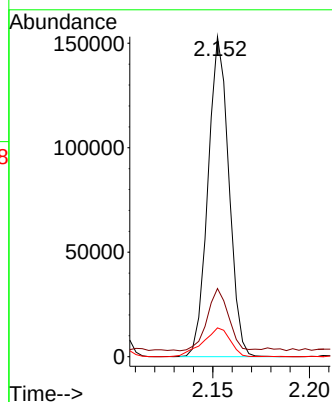
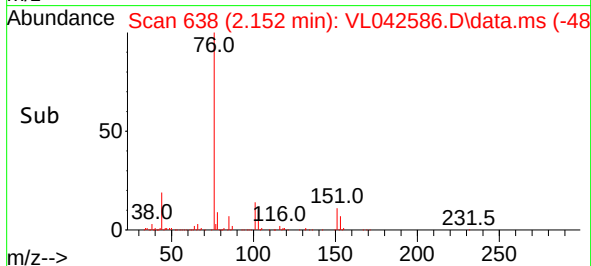
Instrument : MSVOA_L
ClientSampleId : ICVVL052925



Tgt Ion: 76 Resp: 114750
Ion Ratio Lower Upper
76 100
44 20.4 21.3 31.9
78 11.8 9.4 14.0

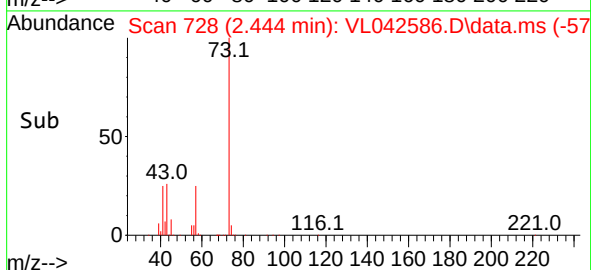
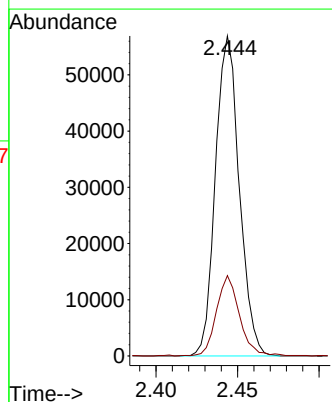
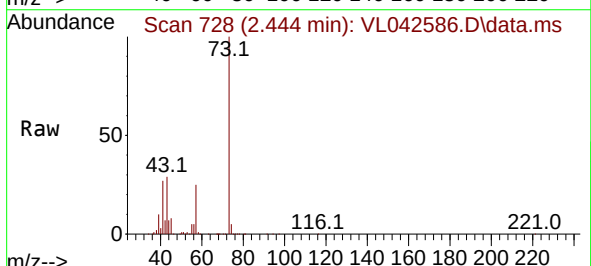
Manual Integrations
APPROVED

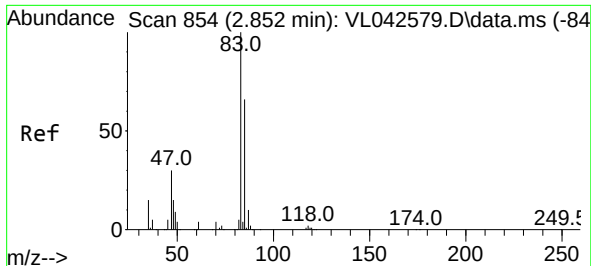
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#28
Methyl tert-Butyl Ether
Concen: 9.302 ppbv
RT: 2.444 min Scan# 728
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 73 Resp: 57913
Ion Ratio Lower Upper
73 100
57 24.7 19.9 29.9





#29

Chloroform

Concen: 9.057 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL042586.D

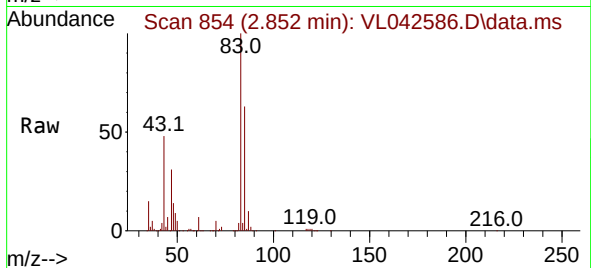
Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL052925



Tgt Ion: 83 Resp: 180690

Ion Ratio Lower Upper

83 100

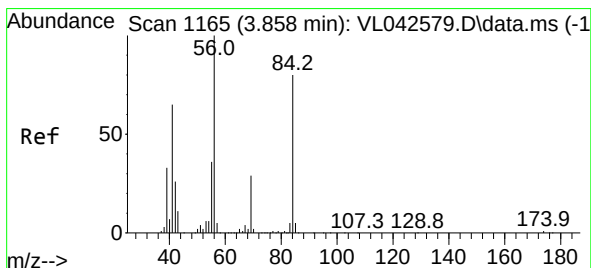
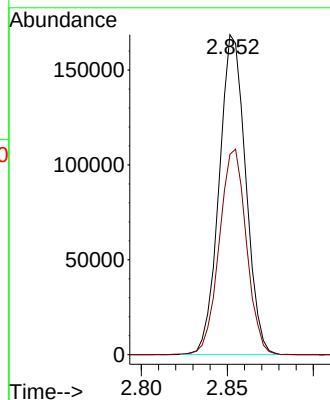
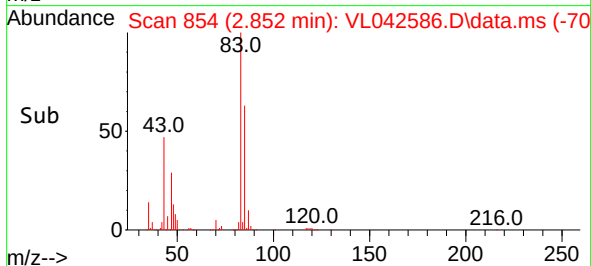
85 62.6 52.8 79.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#30

Cyclohexane

Concen: 9.198 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. 0.003 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

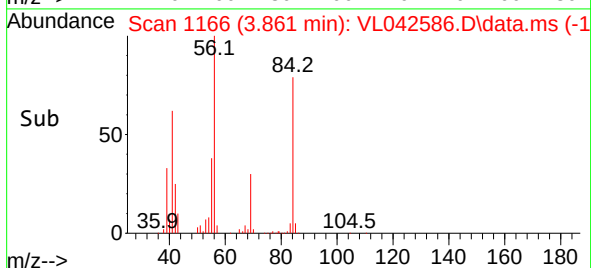
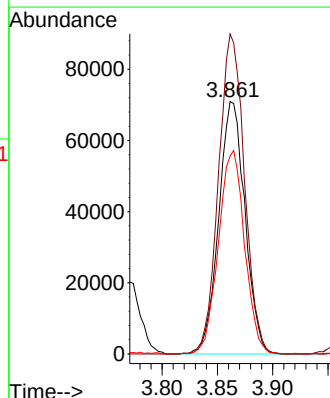
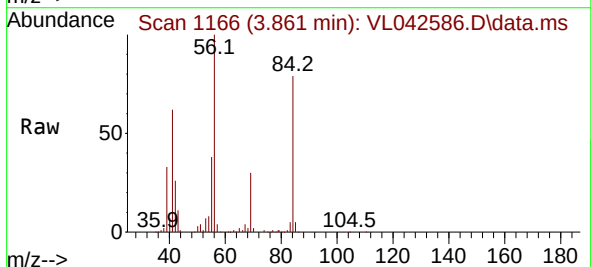
Tgt Ion: 84 Resp: 116986

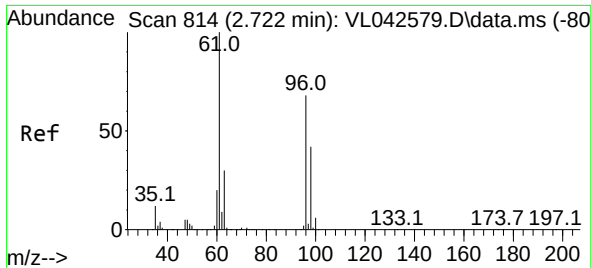
Ion Ratio Lower Upper

84 100

56 125.0 103.7 155.5

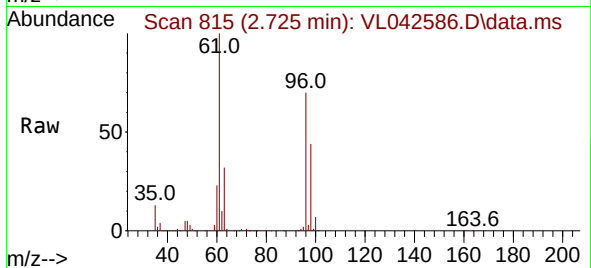
41 80.6 65.1 97.7





#31
 cis-1,2-Dichloroethene
 Concen: 9.307 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

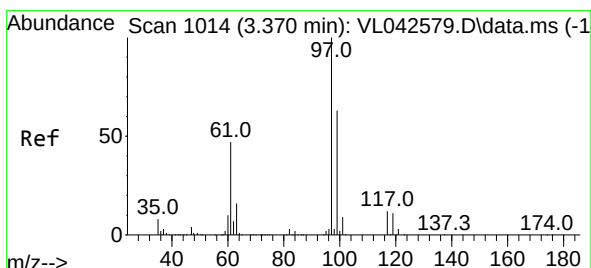
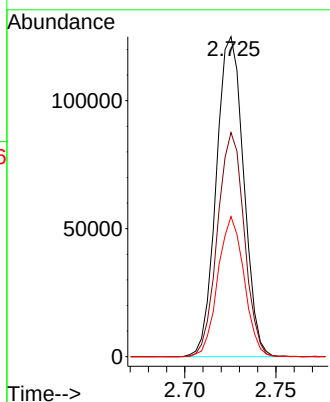
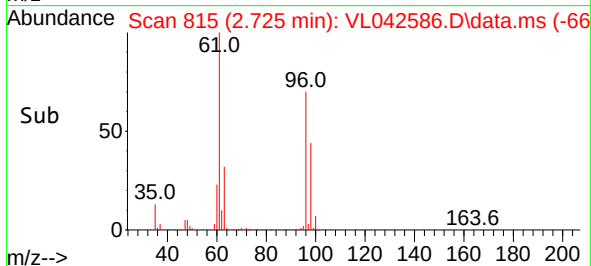
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925



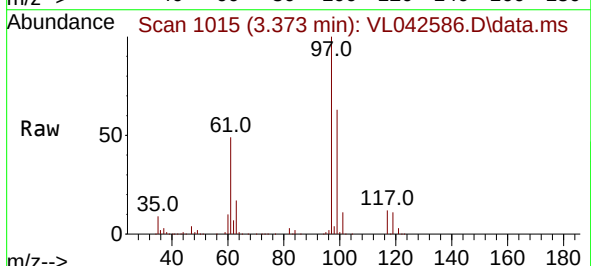
Tgt Ion: 61 Resp: 130619
 Ion Ratio Lower Upper
 61 100
 96 70.0 54.5 81.7
 98 43.8 33.4 50.2

Manual Integrations
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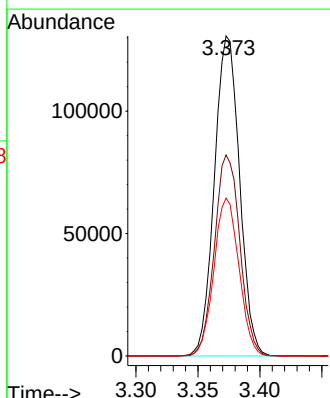
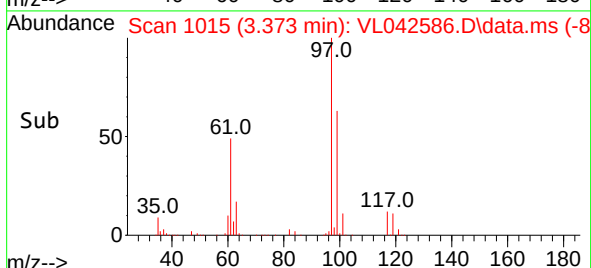
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

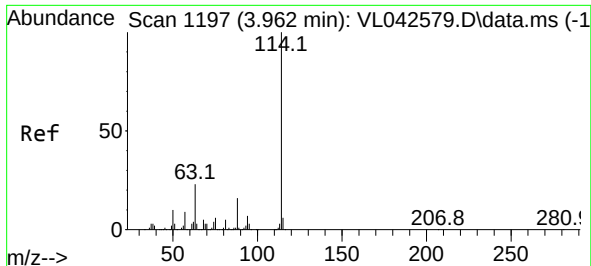


#32
 1,1,1-Trichloroethane
 Concen: 9.077 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.003 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56



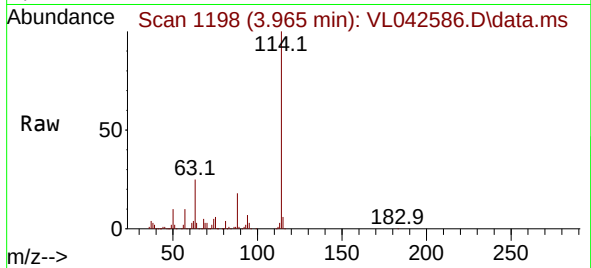
Tgt Ion: 97 Resp: 185017
 Ion Ratio Lower Upper
 97 100
 99 63.4 51.0 76.6
 61 49.3 39.4 59.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1197
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

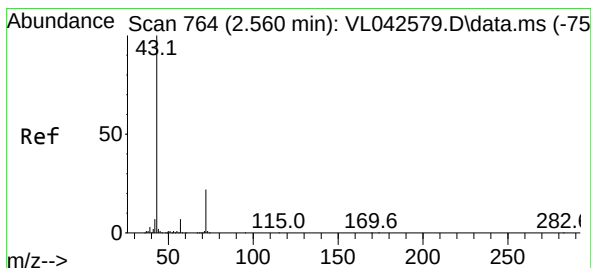
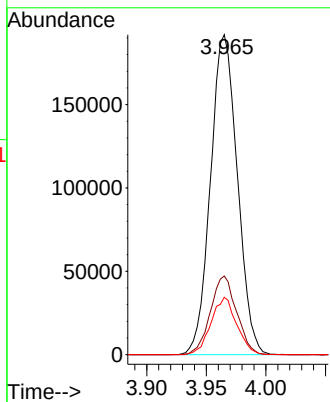
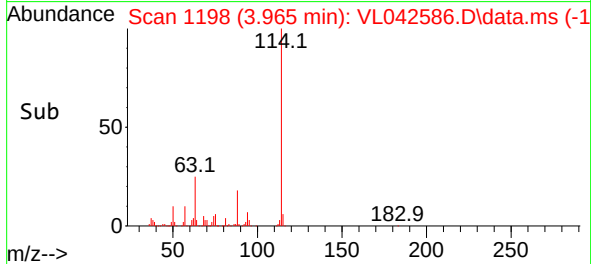
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925



Tgt Ion:114 Resp: 301054
Ion Ratio Lower Upper
114 100
63 24.0 19.0 28.6
88 17.1 13.6 20.4

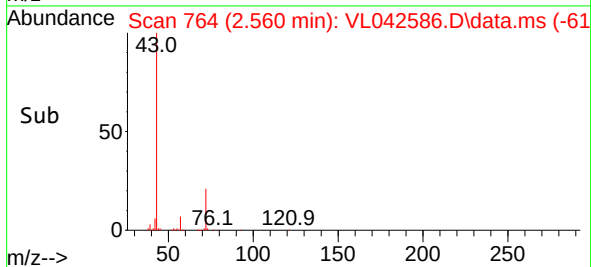
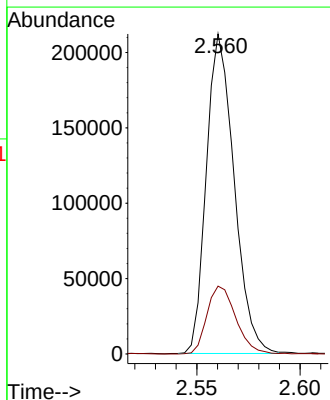
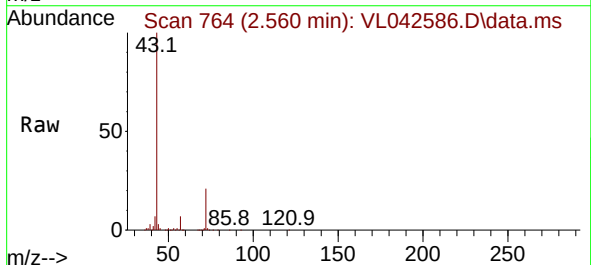
Manual Integrations
APPROVED

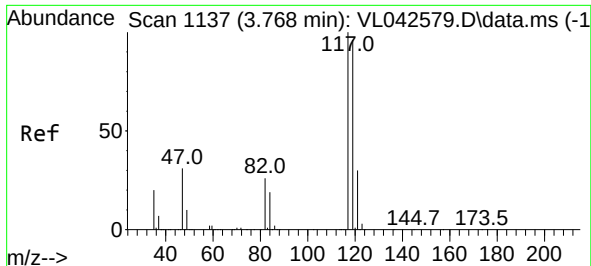
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#34
2-Butanone
Concen: 9.233 ppbv
RT: 2.560 min Scan# 764
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

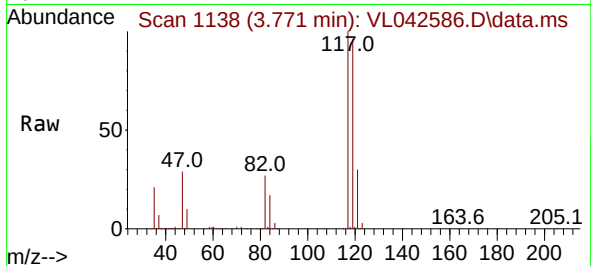
Tgt Ion: 43 Resp: 198226
Ion Ratio Lower Upper
43 100
72 22.3 17.7 26.5





#35
Carbon Tetrachloride
Concen: 9.374 ppbv
RT: 3.771 min Scan# 1137
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

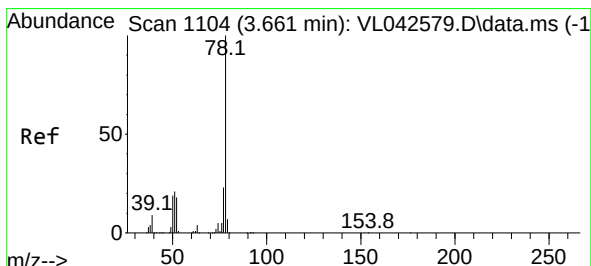
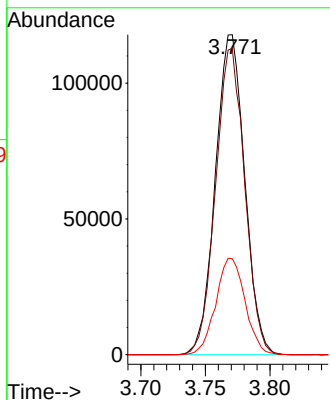
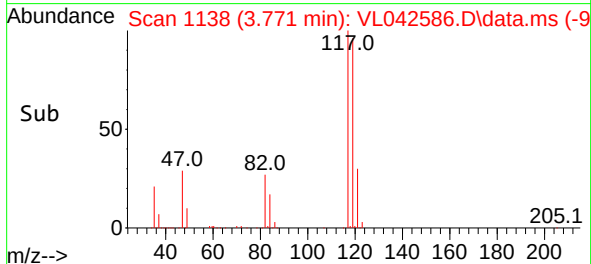
Instrument : MSVOA_L
ClientSampleId : ICVVL052925



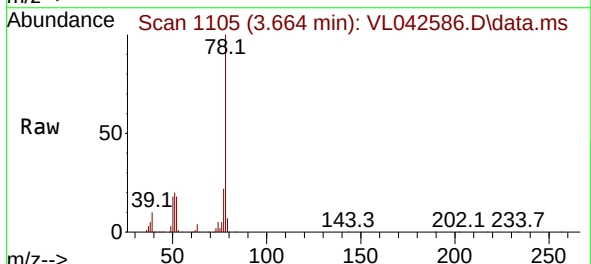
Tgt Ion: 117 Resp: 186280
Ion Ratio Lower Upper
117 100
119 95.8 76.8 115.2
121 30.0 24.3 36.5

Manual Integrations
APPROVED

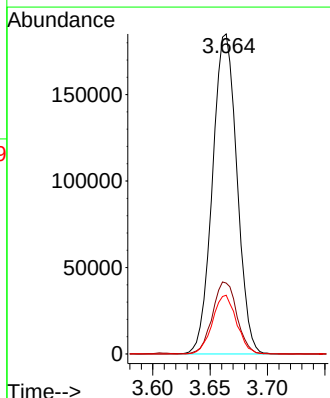
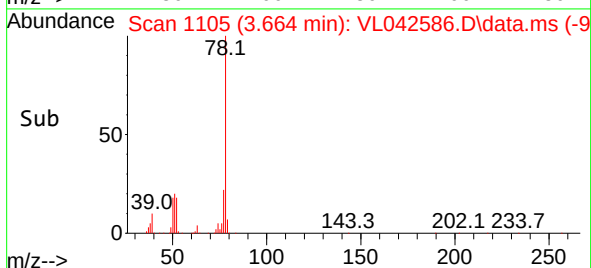
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

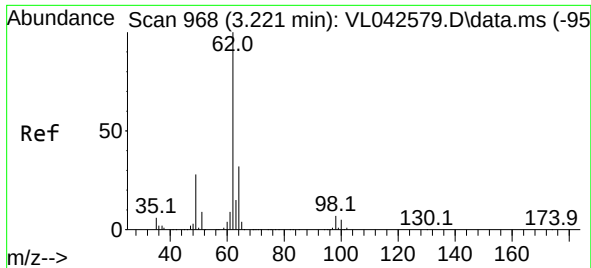


#36
Benzene
Concen: 9.253 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56



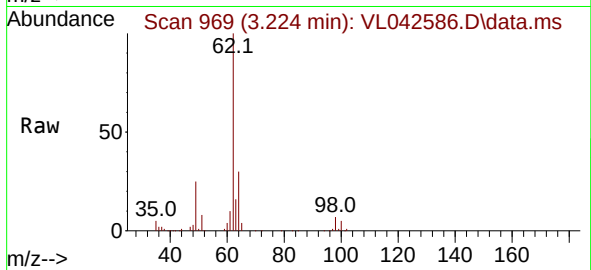
Tgt Ion: 78 Resp: 274314
Ion Ratio Lower Upper
78 100
77 22.1 18.2 27.2
50 18.4 15.2 22.8





#37
1,2-Dichloroethane
Concen: 9.555 ppbv
RT: 3.224 min Scan# 901
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

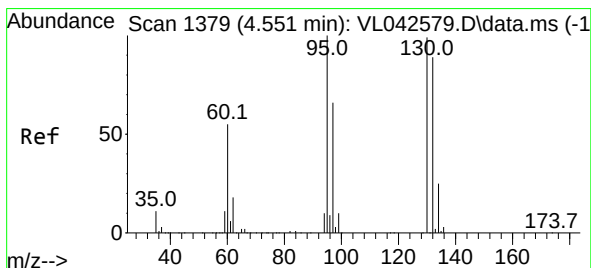
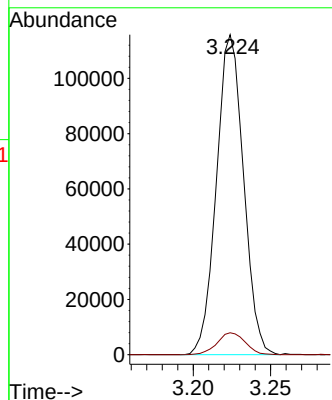
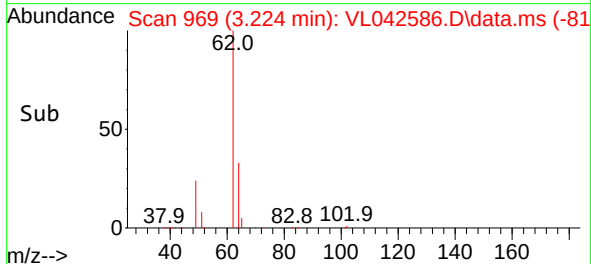
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925



Tgt Ion: 62 Resp: 140785
Ion Ratio Lower Upper
62 100
98 7.1 6.1 9.1

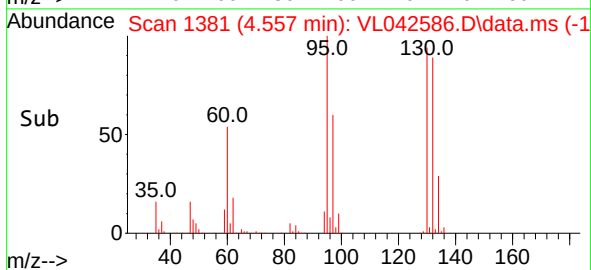
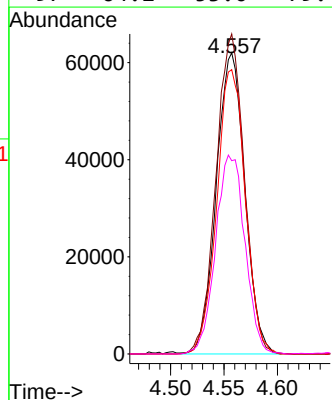
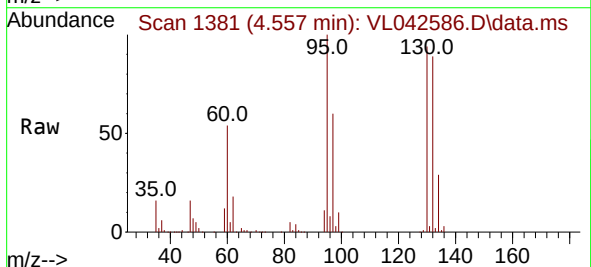
Manual Integrations
APPROVED

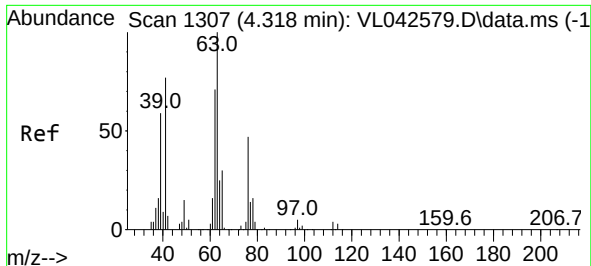
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#38
Trichloroethene
Concen: 9.133 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.006 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion:130 Resp: 115086
Ion Ratio Lower Upper
130 100
95 106.1 80.6 121.0
132 94.4 71.8 107.6
97 64.2 53.0 79.4





#39

1,2-Dichloropropane

Concen: 8.988 ppbv

RT: 4.324 min Scan# 1309

Delta R.T. 0.006 min

Lab File: VL042586.D

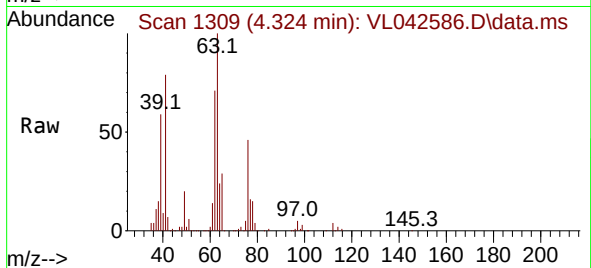
Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL052925

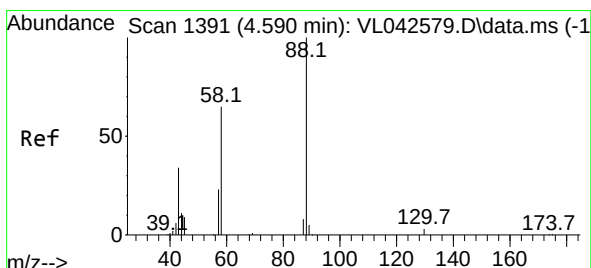
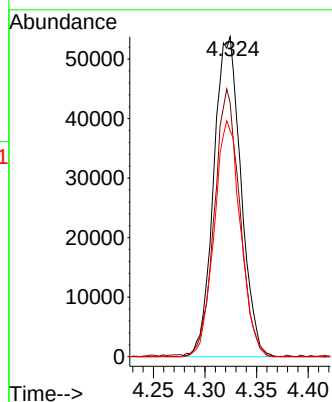
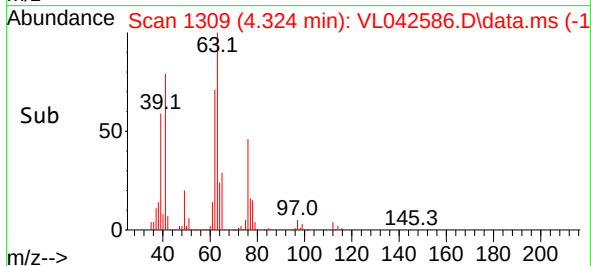


Tgt Ion:	63	Resp:	9854
Ion	Ratio	Lower	Upper
63	100		
41	79.3	61.8	92.6
62	70.6	56.6	85.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#40

1,4-Dioxane

Concen: 9.306 ppbv

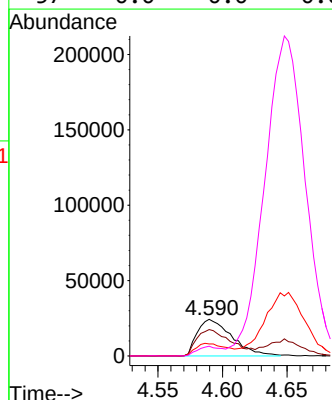
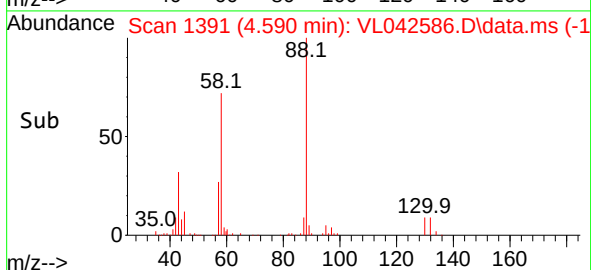
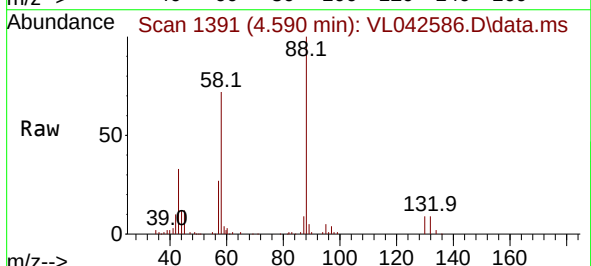
RT: 4.590 min Scan# 1391

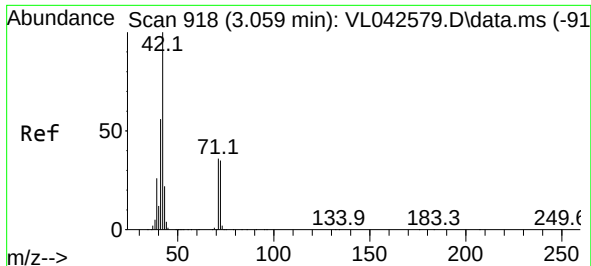
Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

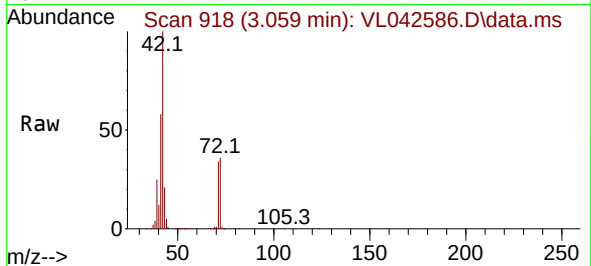
Tgt Ion:	88	Resp:	45655
Ion	Ratio	Lower	Upper
88	100		
58	68.9	55.8	83.8
43	30.9	24.8	37.2
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 9.309 ppbv
RT: 3.059 min Scan# 918
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

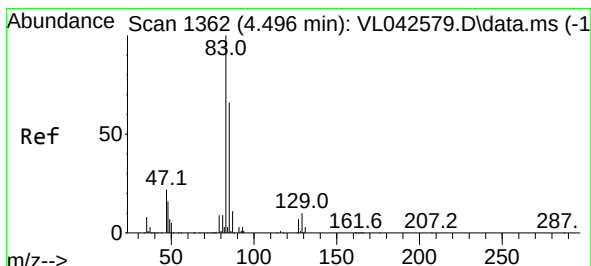
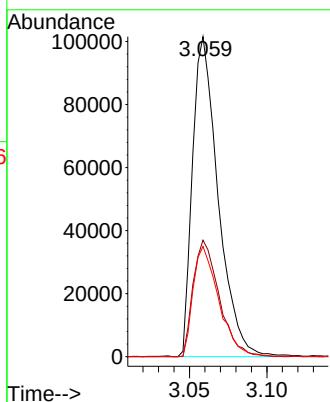
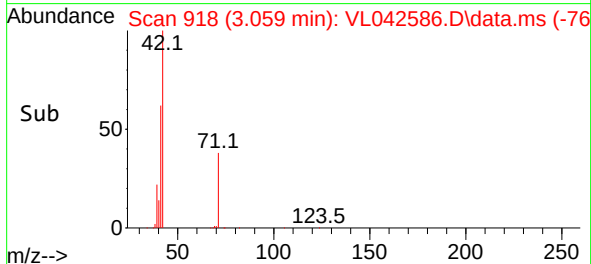
Instrument : MSVOA_L
ClientSampleId : ICVVL052925



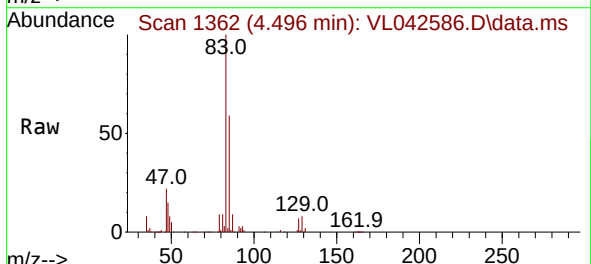
Tgt Ion: 42 Resp: 116984
Ion Ratio Lower Upper
42 100
72 37.0 28.9 43.3
71 34.6 28.5 42.7

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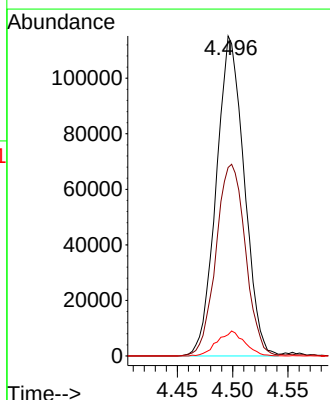
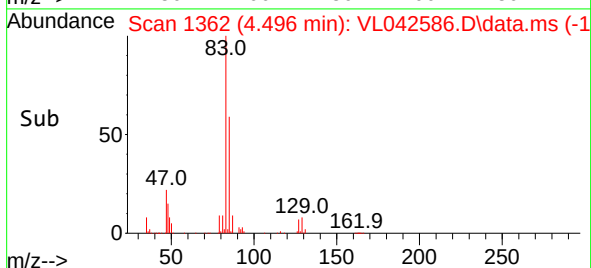
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

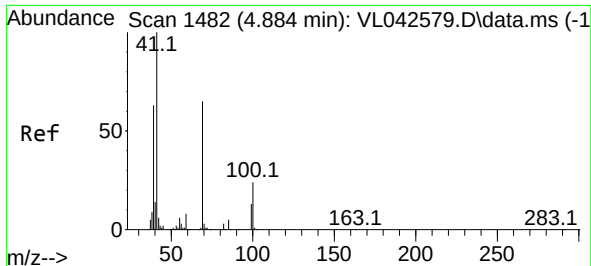


#42
Bromodichloromethane
Concen: 9.676 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56



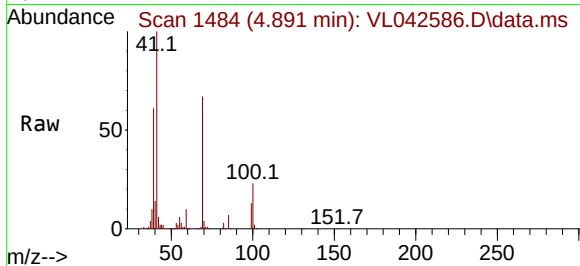
Tgt Ion: 83 Resp: 202489
Ion Ratio Lower Upper
83 100
85 58.9 52.7 79.1
127 6.7 5.8 8.6





#43
Methyl Methacrylate
Concen: 9.421 ppbv
RT: 4.891 min Scan# 1484
Delta R.T. 0.006 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

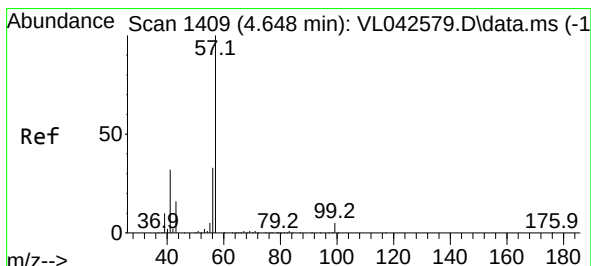
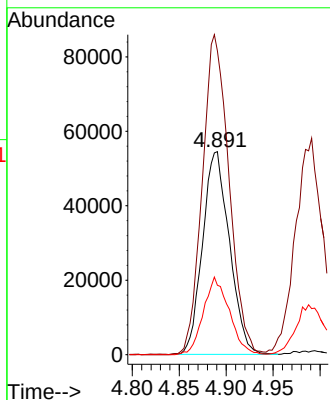
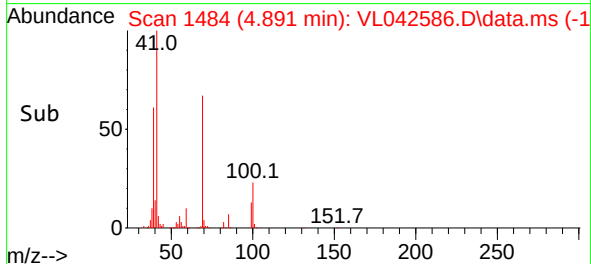
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925



Tgt Ion: 69 Resp: 10839
Ion Ratio Lower Upper
69 100
41 157.1 124.6 187.0
100 36.8 29.9 44.9

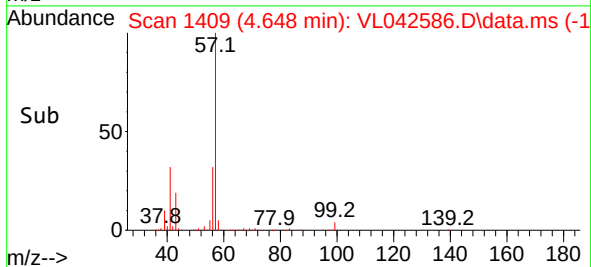
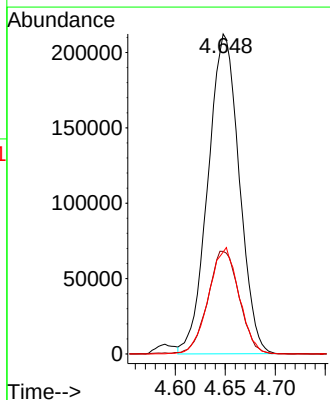
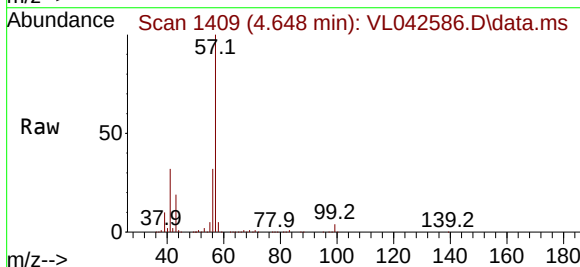
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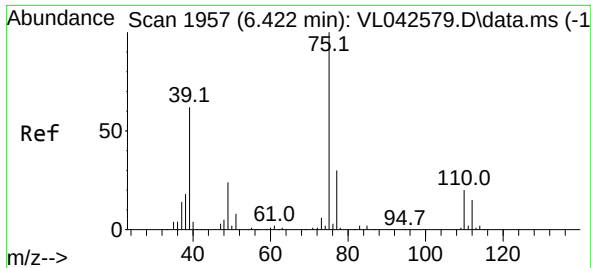
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#44
2,2,4-Trimethylpentane
Concen: 9.093 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 57 Resp: 461095
Ion Ratio Lower Upper
57 100
41 32.4 26.1 39.1
56 32.4 25.9 38.9





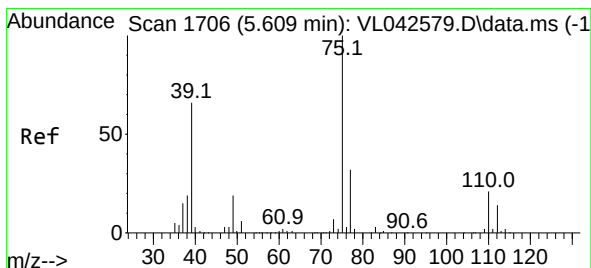
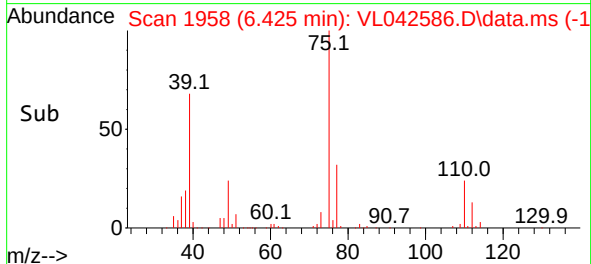
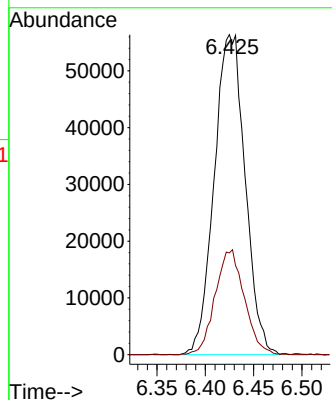
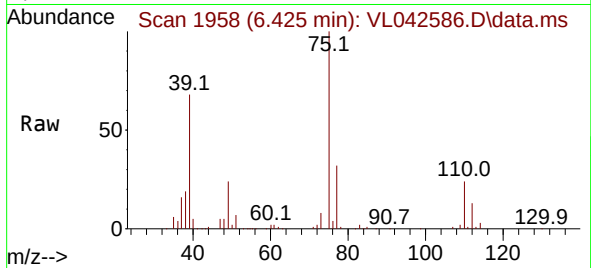
#45
 t-1,3-Dichloropropene
 Concen: 9.538 ppbv m
 RT: 6.425 min Scan# 1957
 Delta R.T. 0.003 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Tgt Ion: 75 Resp: 125588
 Ion Ratio Lower Upper
 75 100
 77 31.8 24.2 36.2

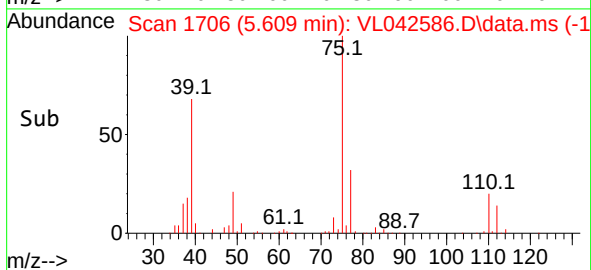
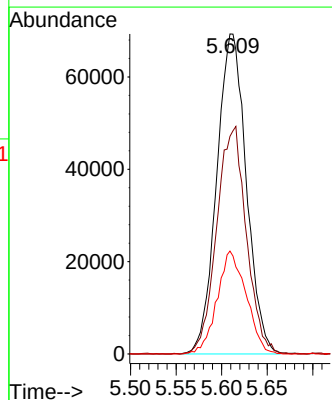
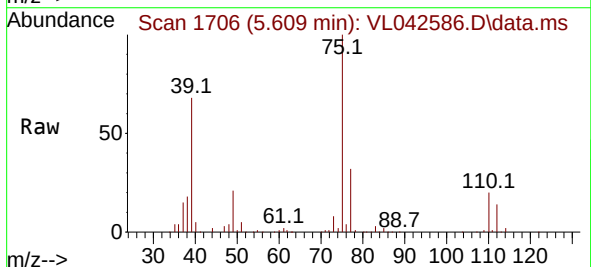
Manual Integrations
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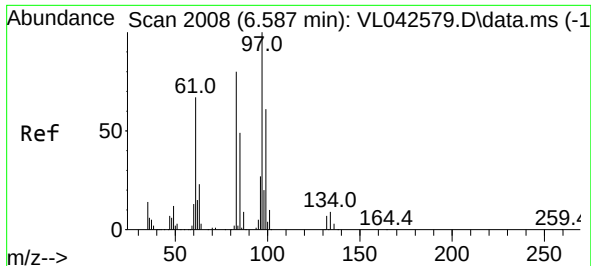
Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



#46
 cis-1,3-Dichloropropene
 Concen: 9.505 ppbv
 RT: 5.609 min Scan# 1706
 Delta R.T. -0.000 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

Tgt Ion: 75 Resp: 156828
 Ion Ratio Lower Upper
 75 100
 39 68.0 52.7 79.1
 77 32.2 25.8 38.8





#47

1,1,2-Trichloroethane

Concen: 9.088 ppbv

RT: 6.590 min Scan# 2008

Delta R.T. 0.003 min

Lab File: VL042586.D

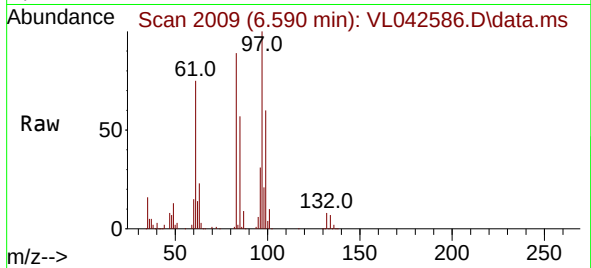
Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL052925



Tgt Ion: 97 Resp: 103138

Ion Ratio Lower Upper

97 100

83 88.6 63.9 95.9

85 57.0 39.2 58.8

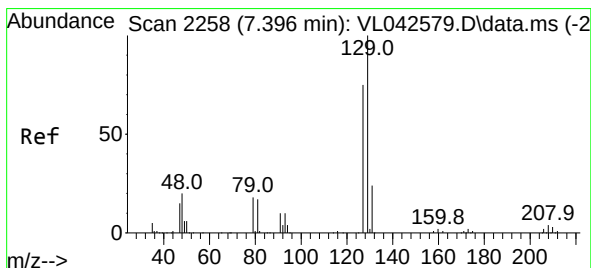
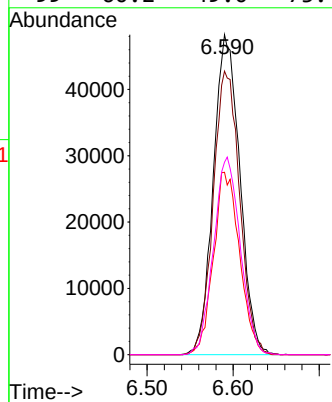
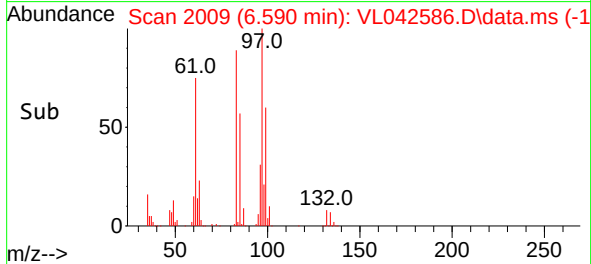
99 60.2 49.0 73.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#48

Dibromochloromethane

Concen: 9.391 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.003 min

Lab File: VL042586.D

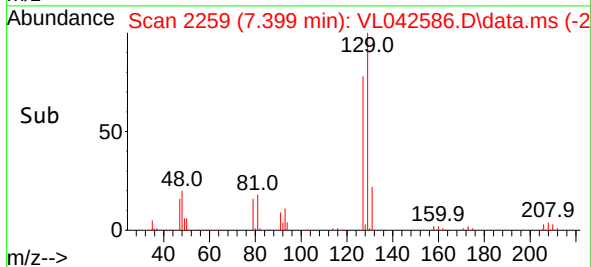
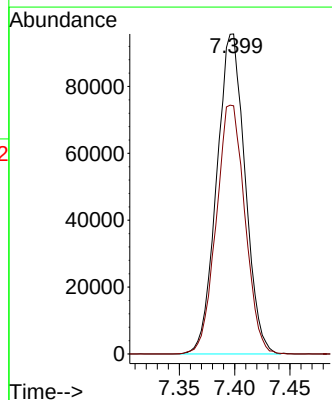
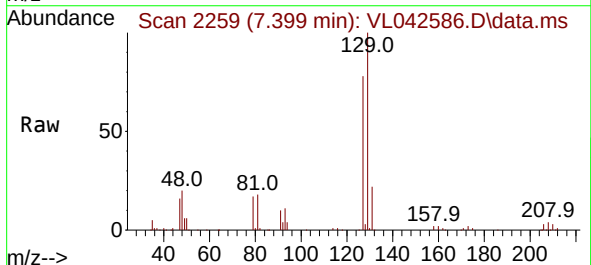
Acq: 29 May 2025 14:56

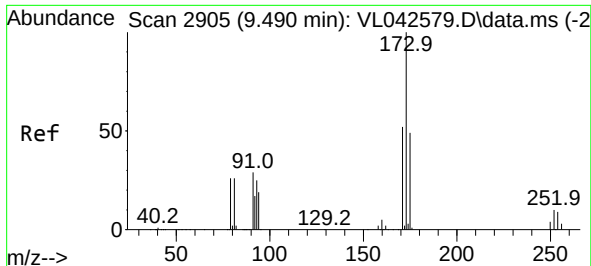
Tgt Ion:129 Resp: 170606

Ion Ratio Lower Upper

129 100

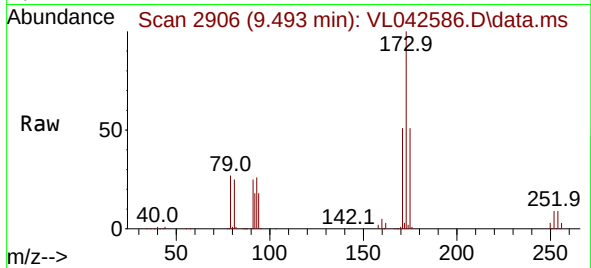
127 78.8 39.0 116.9





#49
Bromoform
Concen: 9.742 ppbv
RT: 9.493 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

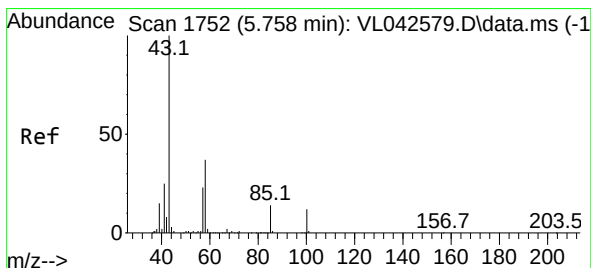
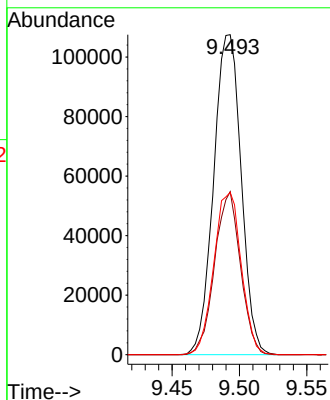
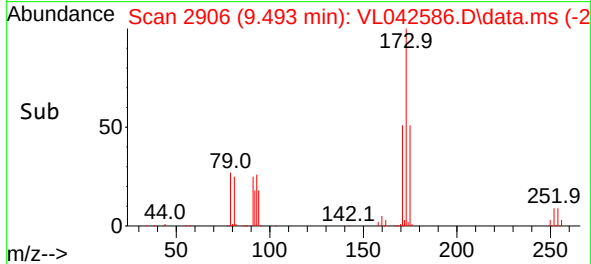
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925



Tgt Ion: 173 Resp: 152725
Ion Ratio Lower Upper
173 100
175 47.8 38.7 58.1
171 50.6 41.2 61.8

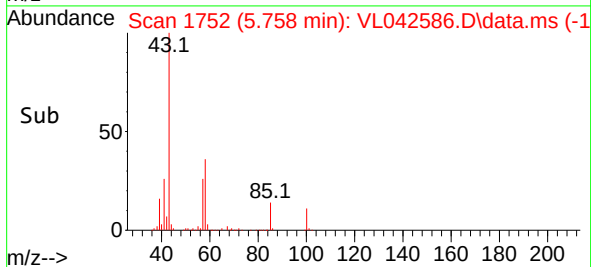
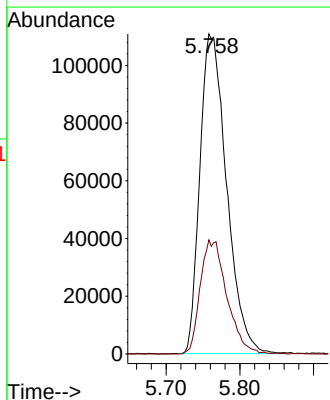
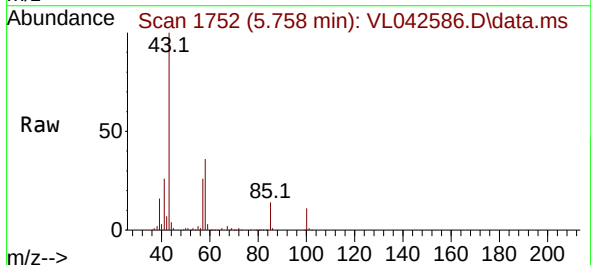
Manual Integrations
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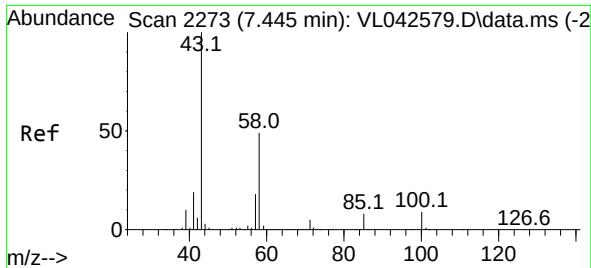
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#50
4-Methyl-2-Pentanone
Concen: 9.369 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

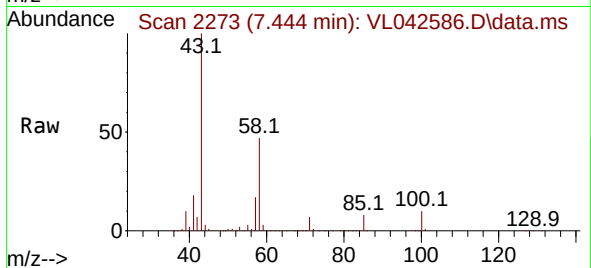
Tgt Ion: 43 Resp: 278990
Ion Ratio Lower Upper
43 100
58 35.5 28.3 42.5





#51
2-Hexanone
Concen: 9.655 ppbv
RT: 7.444 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

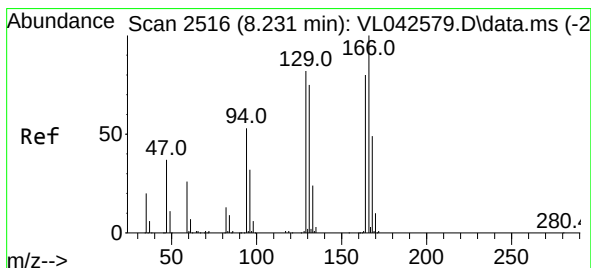
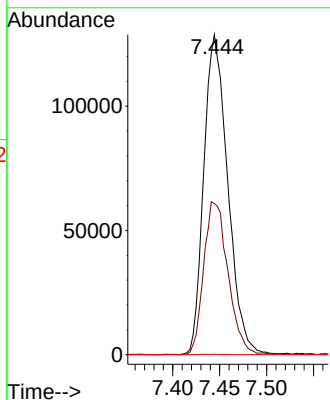
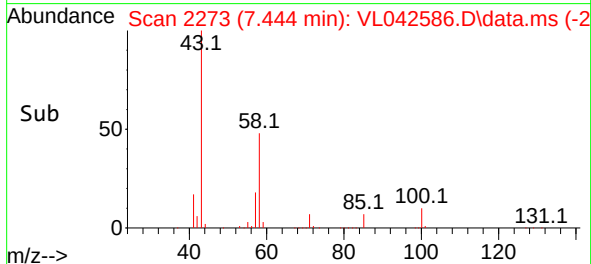
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925



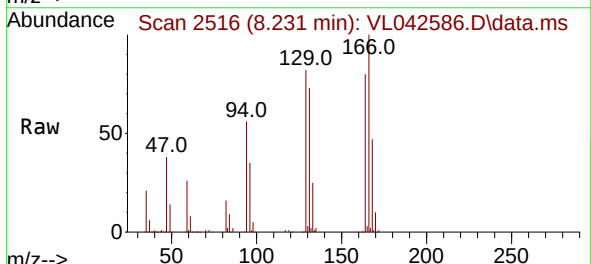
Tgt Ion: 43 Resp: 228036
Ion Ratio Lower Upper
43 100
58 48.6 39.9 59.9
98 0.1 0.1 0.1

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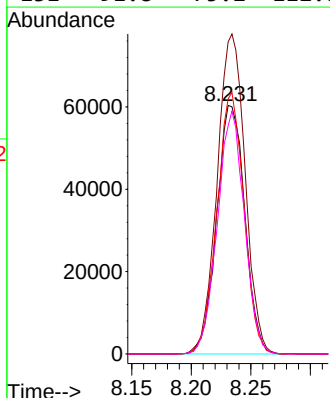
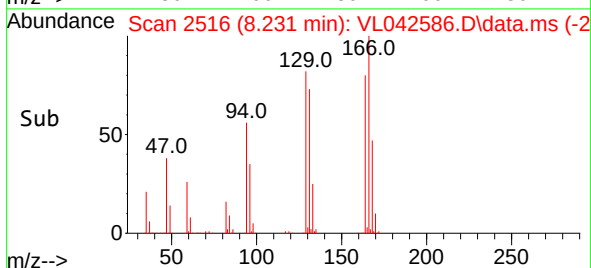
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

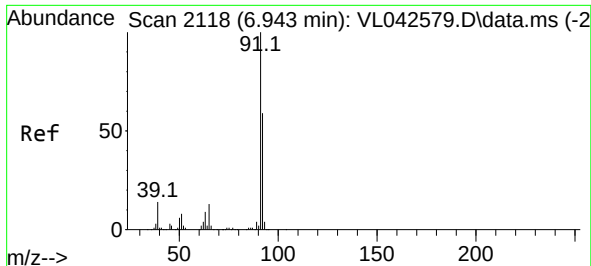


#52
Tetrachloroethene
Concen: 8.925 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56



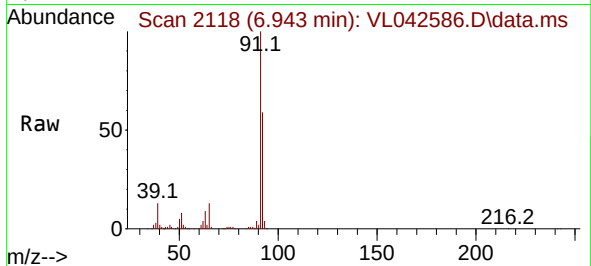
Tgt Ion:164 Resp: 98872
Ion Ratio Lower Upper
164 100
166 125.4 100.0 150.0
129 102.6 82.2 123.4
131 91.8 75.2 112.8





#53
Toluene
Concen: 9.329 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

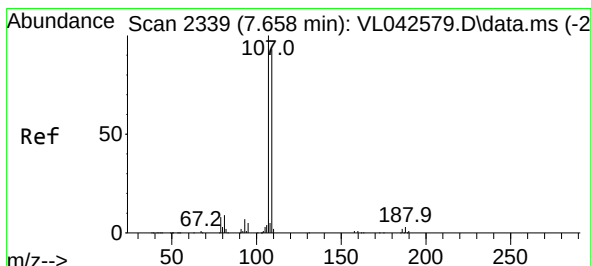
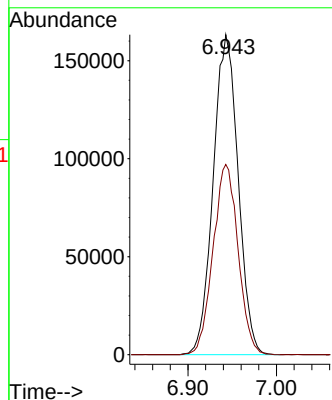
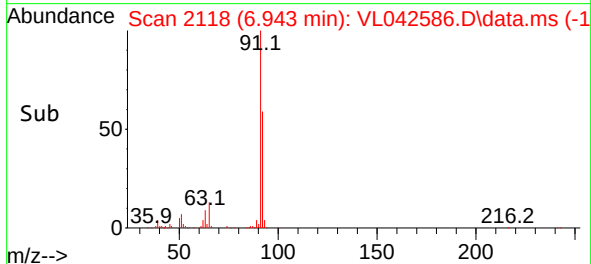
Instrument : MSVOA_L
ClientSampleId : ICVVL052925



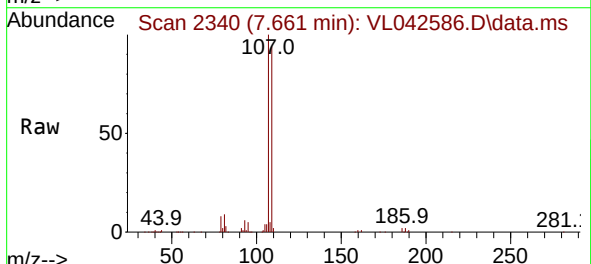
Tgt Ion: 91 Resp: 319640
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4

Manual Integrations
APPROVED

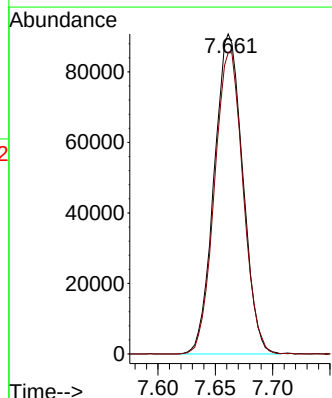
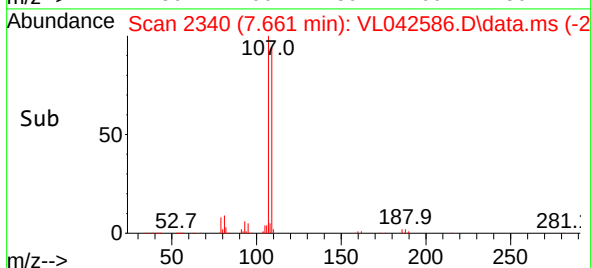
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

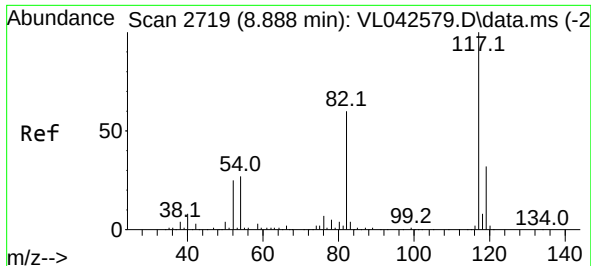


#54
1,2-Dibromoethane
Concen: 9.364 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56



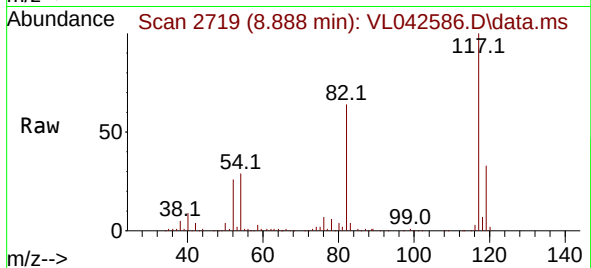
Tgt Ion:107 Resp: 157298
Ion Ratio Lower Upper
107 100
109 94.1 74.3 111.5





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

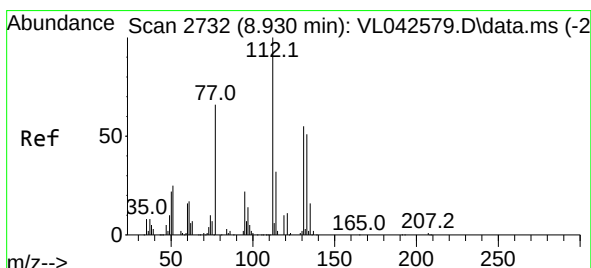
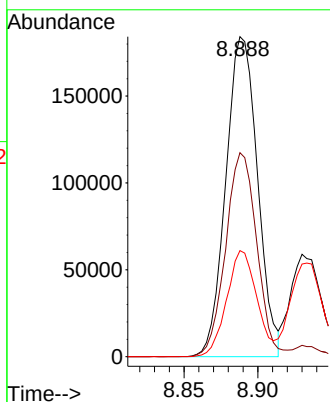
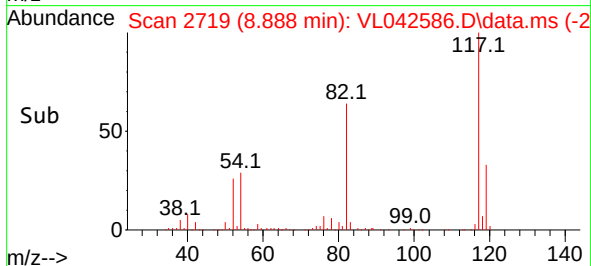
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925



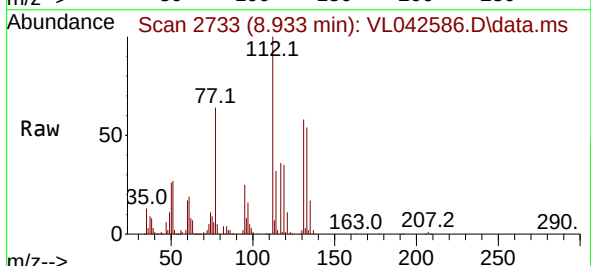
Tgt Ion:117 Resp: 275879
Ion Ratio Lower Upper
117 100
82 65.3 51.2 76.8
119 31.5 26.3 39.5

Manual Integrations
APPROVED

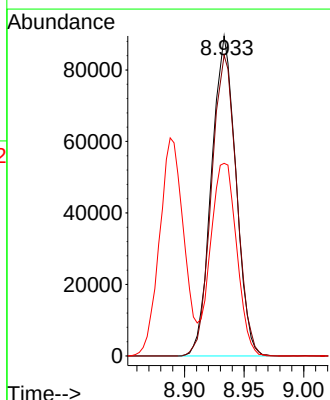
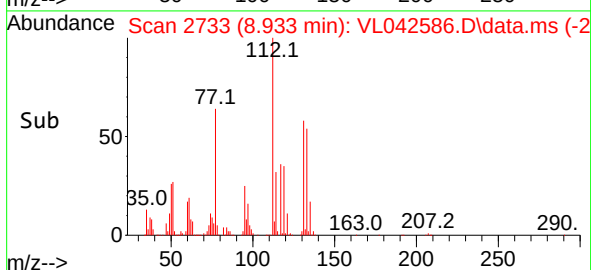
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

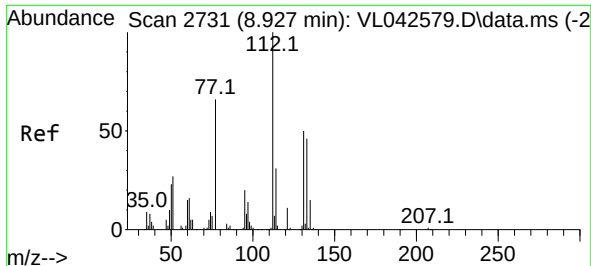


#56
1,1,1,2-Tetrachloroethane
Concen: 9.199 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56



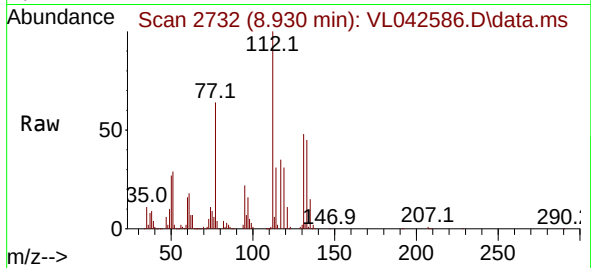
Tgt Ion:131 Resp: 127601
Ion Ratio Lower Upper
131 100
133 96.6 75.0 112.6
119 65.7 50.8 76.2





#57
Chlorobenzene
Concen: 9.054 ppbv
RT: 8.930 min Scan# 2731
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

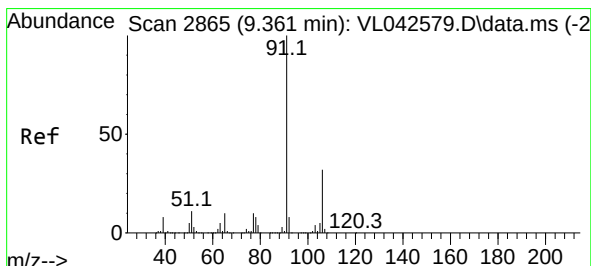
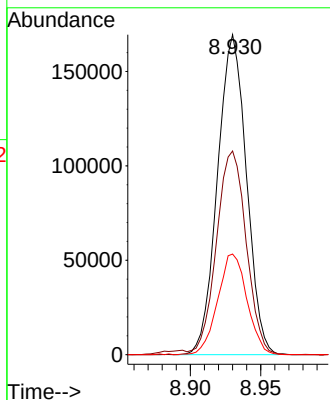
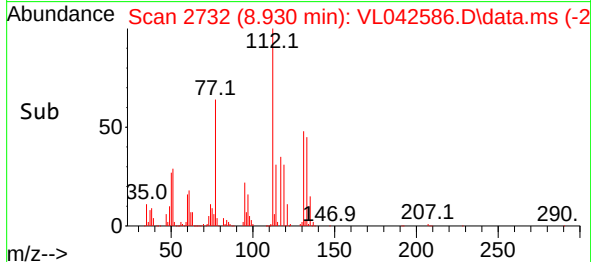
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925



Tgt Ion:112 Resp: 242533
Ion Ratio Lower Upper
112 100
77 63.4 53.5 80.3
114 31.4 27.8 34.0

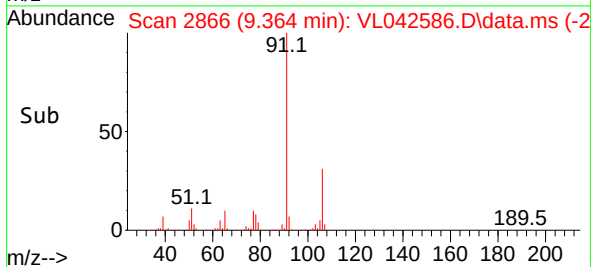
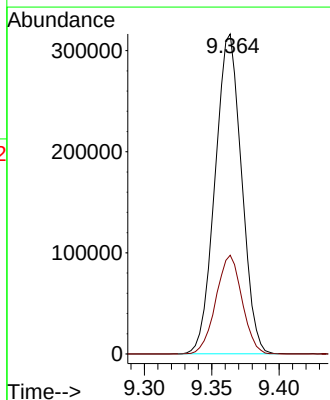
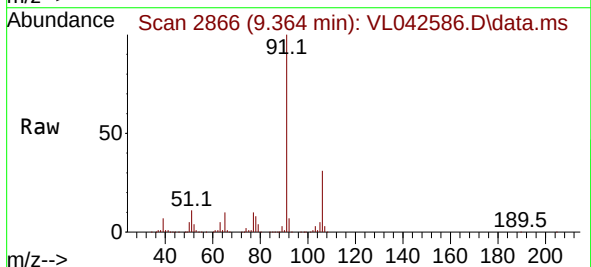
Manual Integrations
APPROVED

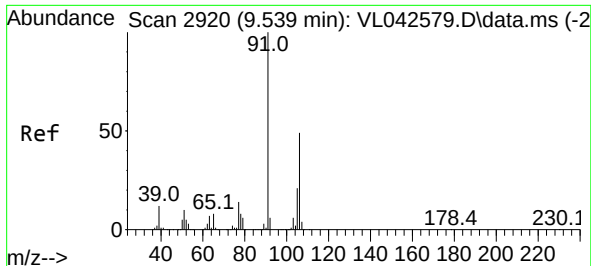
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#58
Ethyl Benzene
Concen: 9.237 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

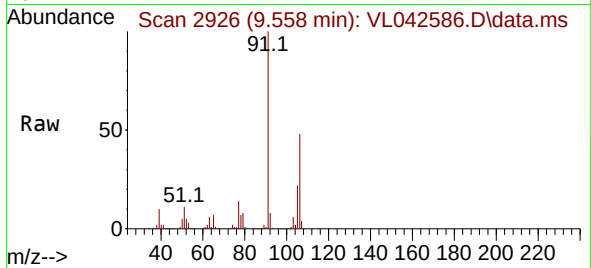
Tgt Ion: 91 Resp: 432250
Ion Ratio Lower Upper
91 100
106 30.9 25.9 38.9





#59
m/p-Xylene
Concen: 18.377 ppbv m
RT: 9.558 min Scan# 2920
Delta R.T. 0.019 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

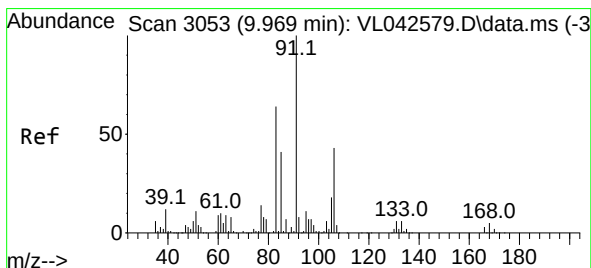
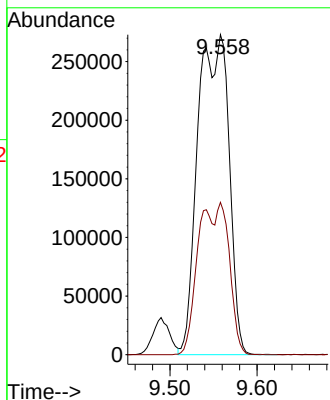
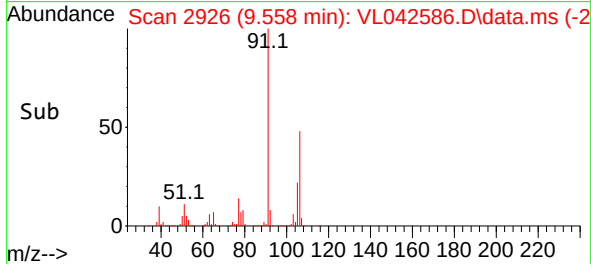
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925



Tgt Ion: 91 Resp: 67674
Ion Ratio Lower Upper
91 100
106 0.0 38.8 58.2

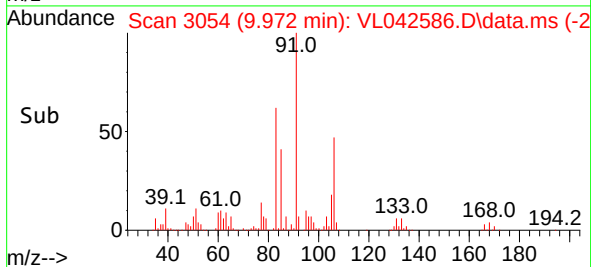
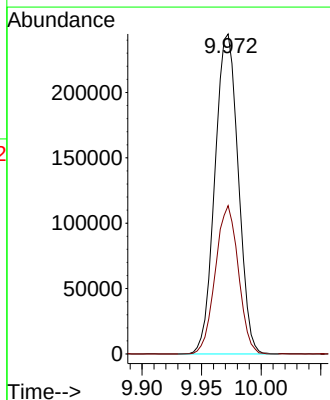
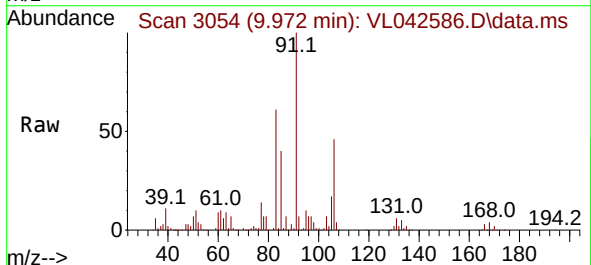
Manual Integrations
APPROVED

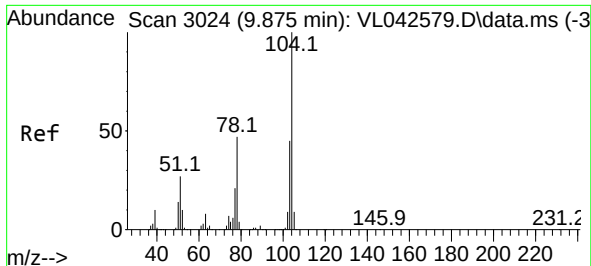
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#60
o-Xylene
Concen: 9.069 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

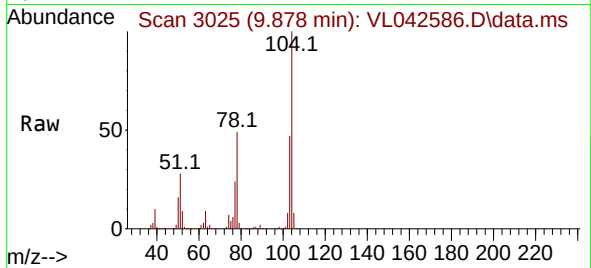
Tgt Ion: 91 Resp: 333107
Ion Ratio Lower Upper
91 100
106 45.7 22.9 68.5





#61
Styrene
Concen: 9.396 ppbv
RT: 9.878 min Scan# 3024
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

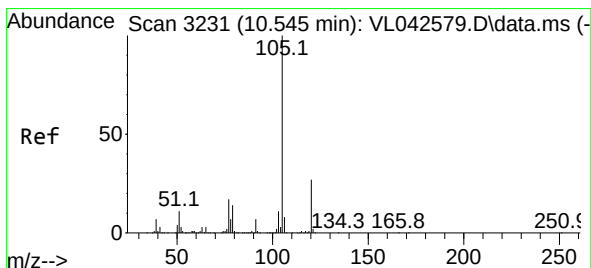
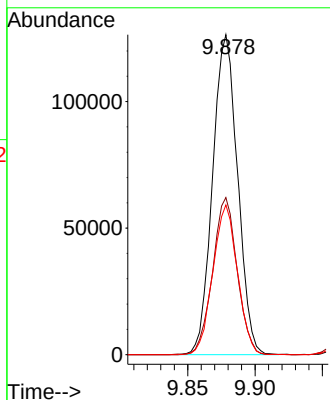
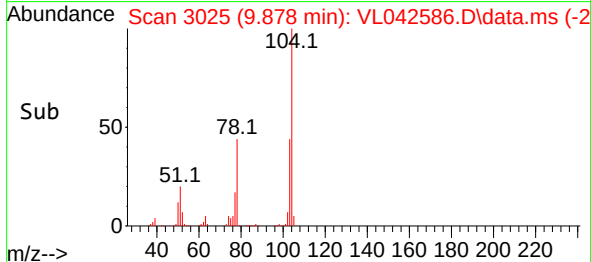
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925



Tgt Ion:104 Resp: 16316
Ion Ratio Lower Upper
104 100
78 48.2 38.2 57.4
103 46.1 36.7 55.1

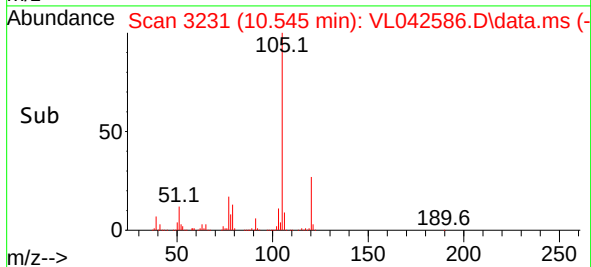
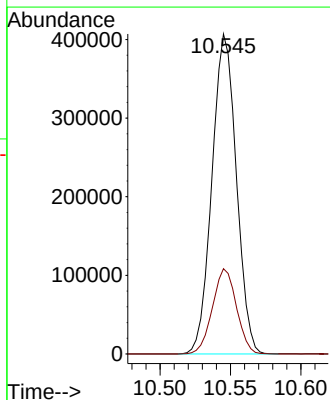
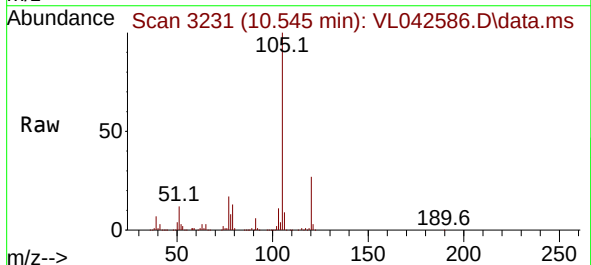
Manual Integrations
APPROVED

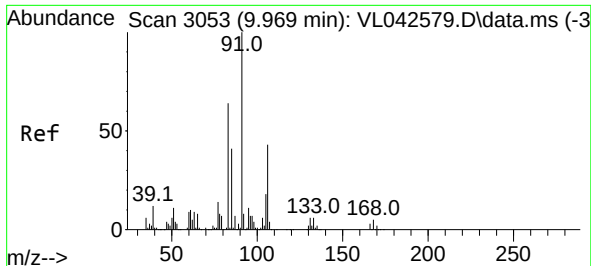
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#62
Isopropylbenzene
Concen: 9.051 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion:105 Resp: 491107
Ion Ratio Lower Upper
105 100
120 26.2 20.9 31.3





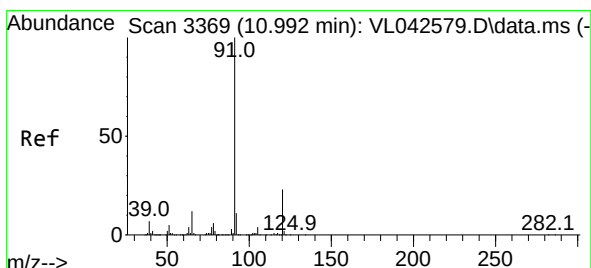
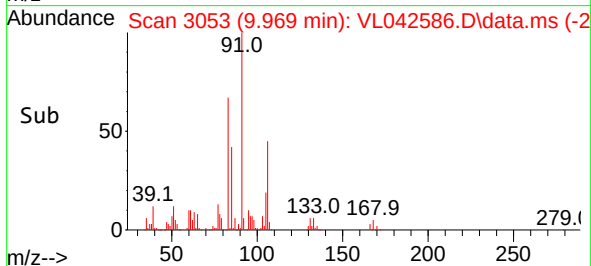
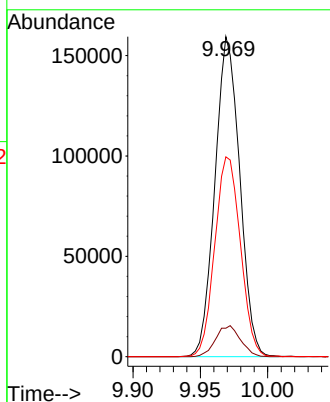
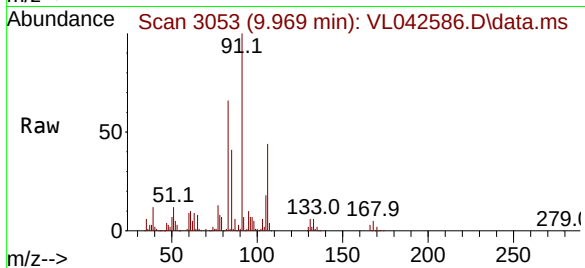
#63
1,1,2,2-Tetrachloroethane
Concen: 8.749 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Instrument : MSVOA_L
ClientSampleId : ICVVL052925

Tgt Ion: 83 Resp: 20432
Ion Ratio Lower Upper
83 100
131 9.7 4.8 14.4
85 64.5 32.5 97.4

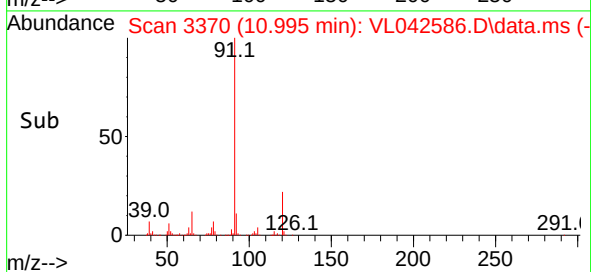
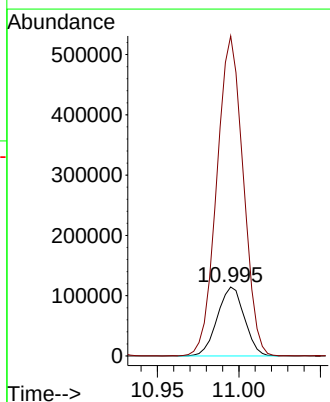
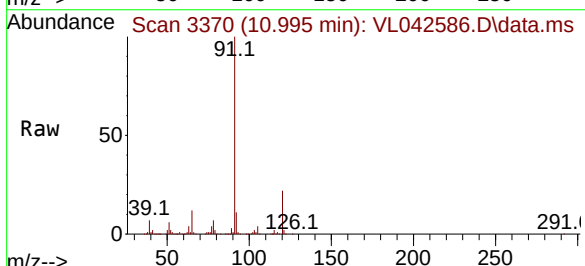
Manual Integrations
APPROVED

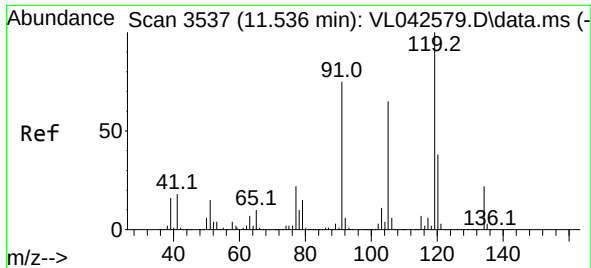
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#64
n-propylbenzene
Concen: 9.054 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion:120 Resp: 131695
Ion Ratio Lower Upper
120 100
91 453.7 363.0 544.6





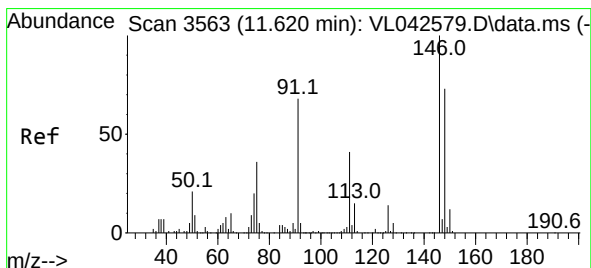
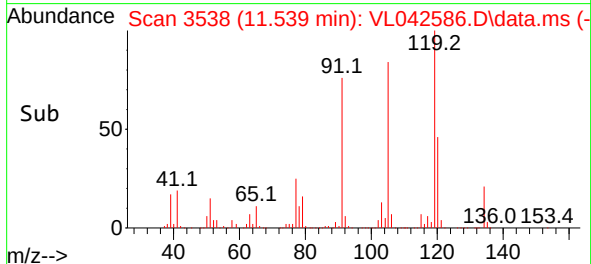
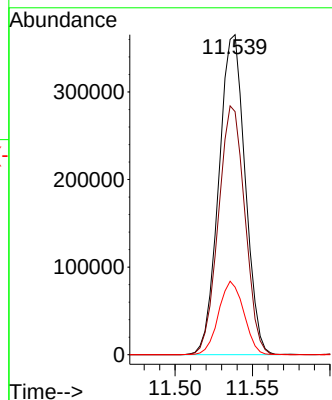
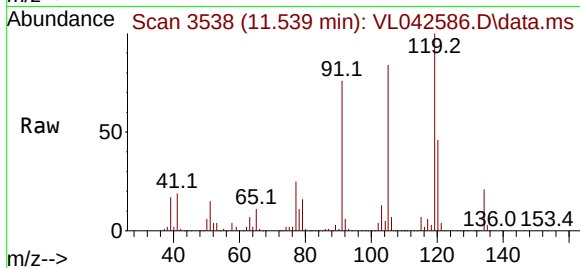
#65
tert-Butylbenzene
Concen: 8.758 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Tgt Ion:119 Resp: 43125
Ion Ratio Lower Upper
119 100
91 78.2 61.1 91.7
134 22.0 17.4 26.2

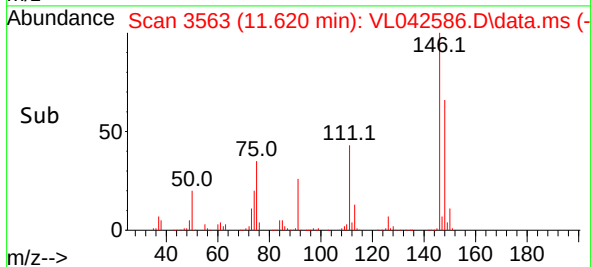
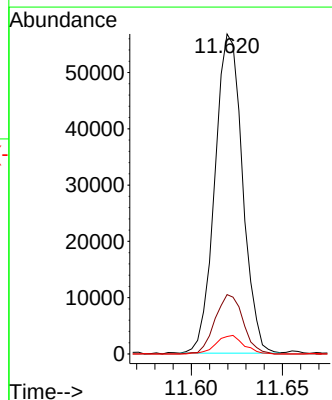
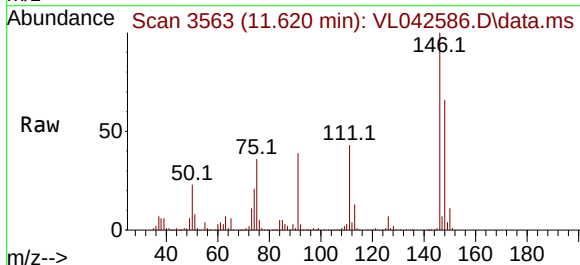
Manual Integrations
APPROVED

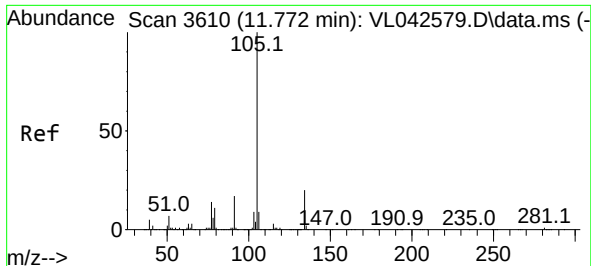
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#66
Benzyl Chloride
Concen: 9.435 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 91 Resp: 59801
Ion Ratio Lower Upper
91 100
126 18.9 15.1 22.7
128 5.8 5.0 7.6





#67

sec-Butylbenzene

Concen: 8.781 ppbv

RT: 11.772 min Scan# 3610

Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL052925

Tgt Ion:105 Resp: 60790

Ion Ratio Lower Upper

105 100

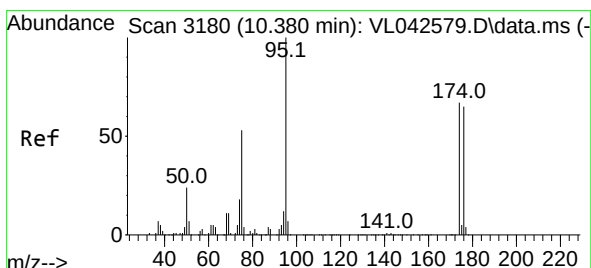
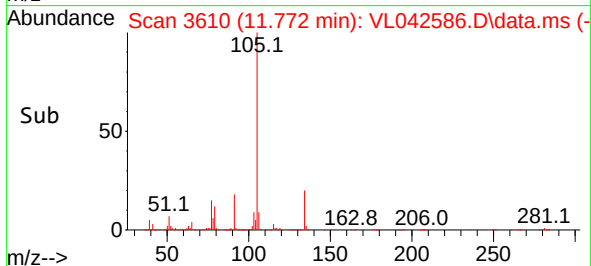
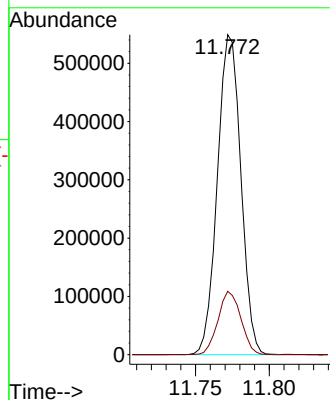
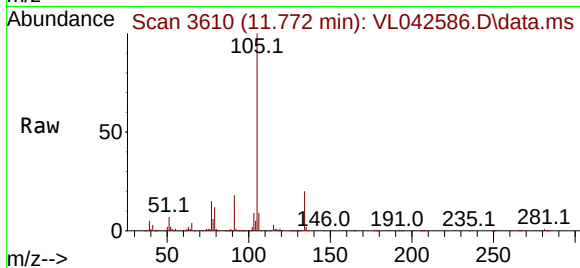
134 19.4 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.852 ppbv

RT: 10.383 min Scan# 3181

Delta R.T. 0.003 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

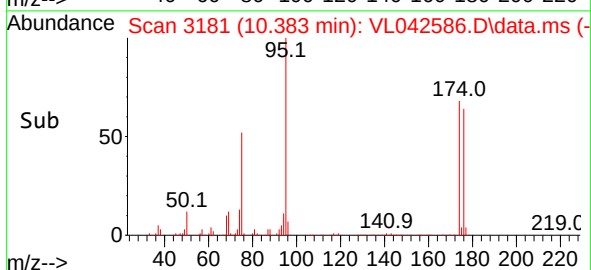
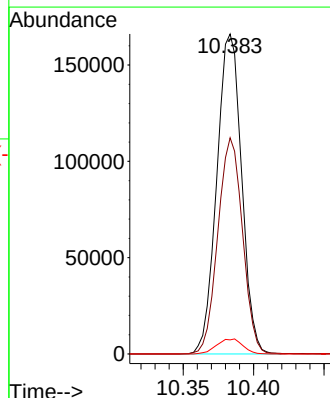
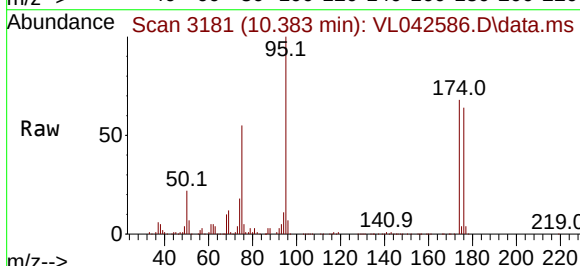
Tgt Ion: 95 Resp: 203743

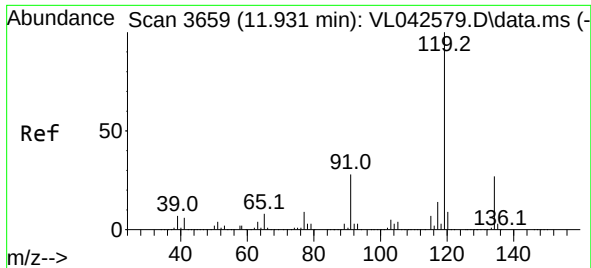
Ion Ratio Lower Upper

95 100

174 67.1 53.1 79.7

175 4.9 4.2 6.2





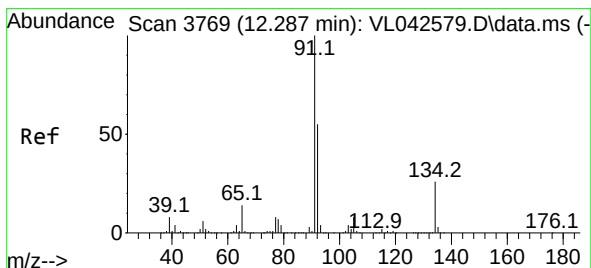
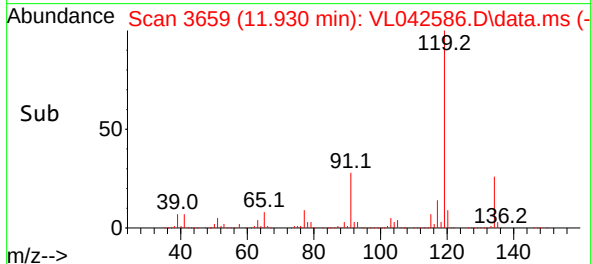
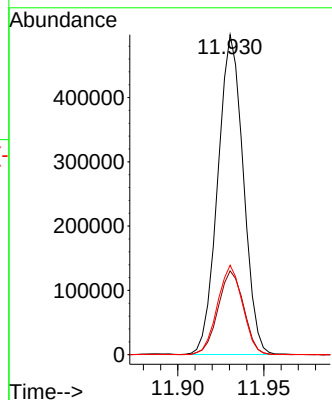
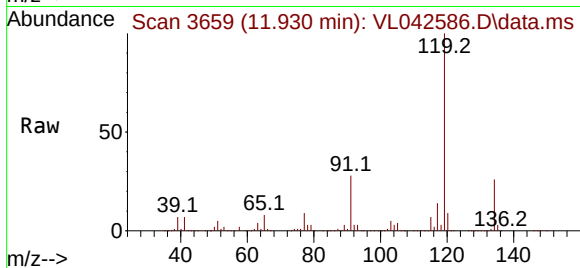
#69
p-Isopropyltoluene
Concen: 8.844 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Tgt Ion: 119 Resp: 512739
Ion Ratio Lower Upper
119 100
134 26.5 21.1 31.7
91 27.7 21.9 32.9

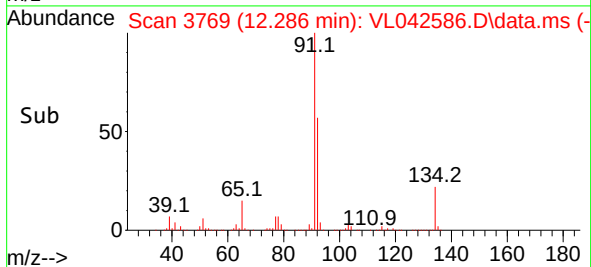
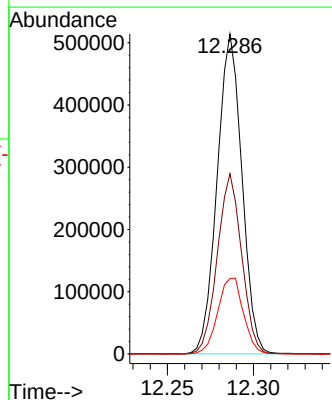
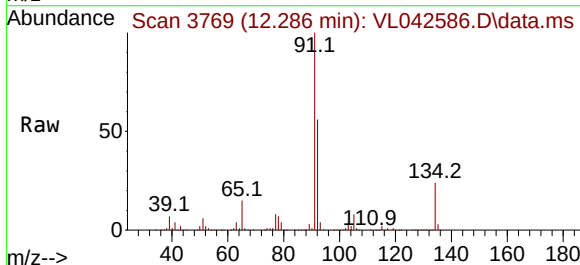
Manual Integrations
APPROVED

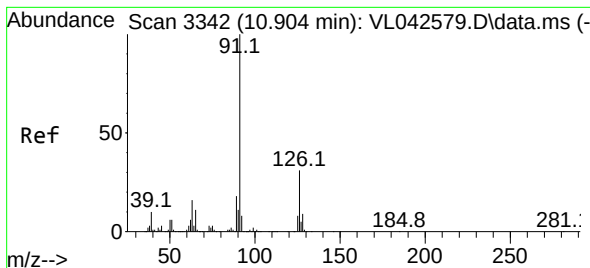
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#70
n-Butylbenzene
Concen: 8.998 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

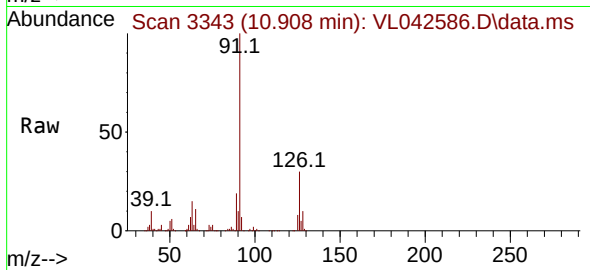
Tgt Ion: 91 Resp: 514931
Ion Ratio Lower Upper
91 100
92 55.4 44.4 66.6
134 24.6 20.1 30.1





#71
2-Chlorotoluene
Concen: 9.119 ppbv
RT: 10.908 min Scan# 311
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

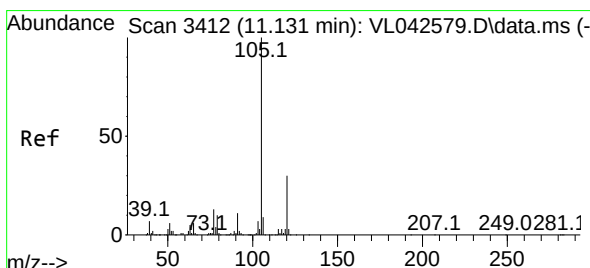
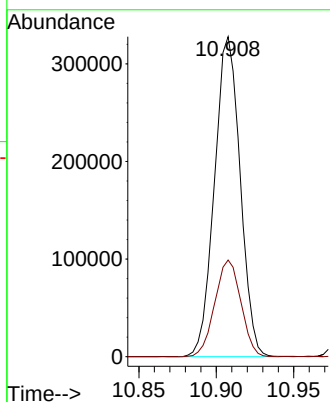
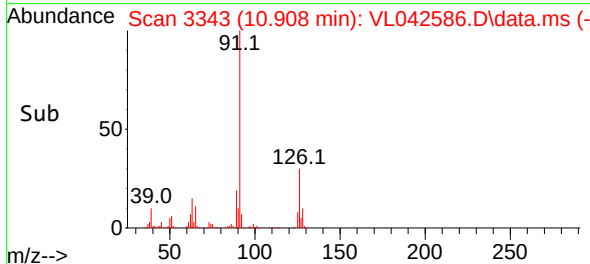
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925



Tgt Ion: 91 Resp: 37741
Ion Ratio Lower Upper
91 100
126 30.7 12.6 50.4

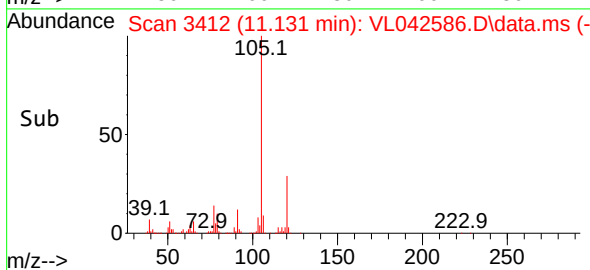
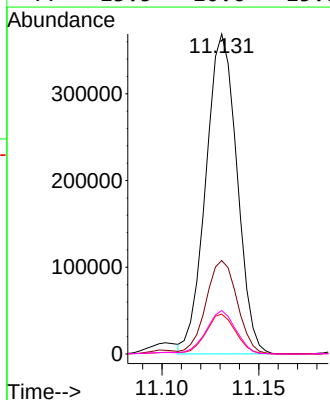
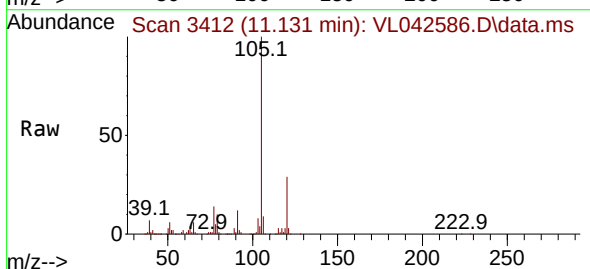
Manual Integrations
APPROVED

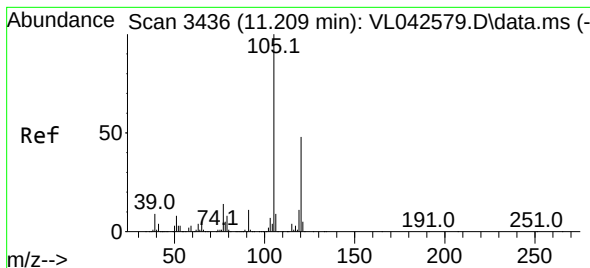
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#72
4-Ethyltoluene
Concen: 9.012 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion:105 Resp: 412686
Ion Ratio Lower Upper
105 100
120 30.4 24.6 36.8
91 12.4 9.6 14.4
77 13.5 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 9.131 ppbv

RT: 11.209 min Scan# 3436

Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL052925

Tgt Ion:105 Resp: 34604

Ion Ratio Lower Upper

105 100

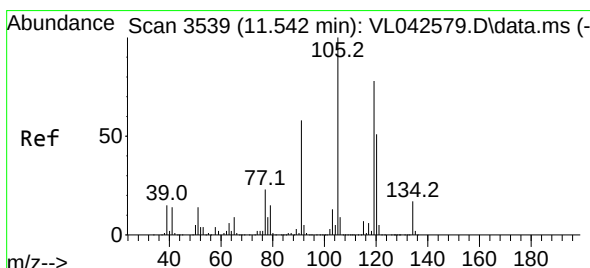
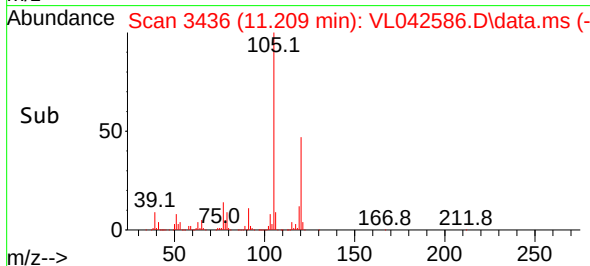
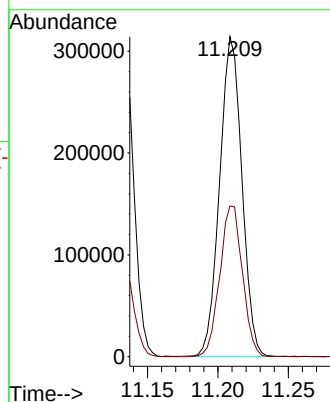
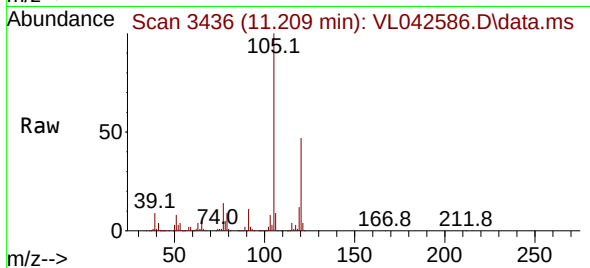
120 47.1 38.8 58.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.842 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Tgt Ion:105 Resp: 371879

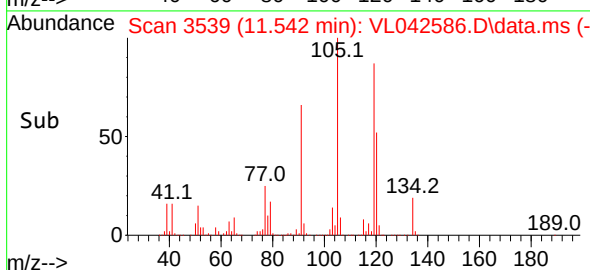
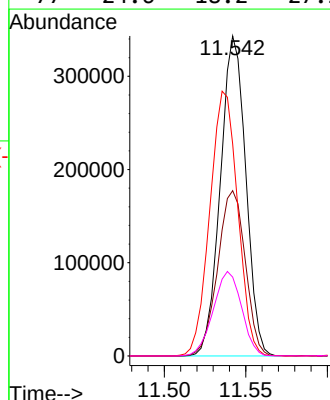
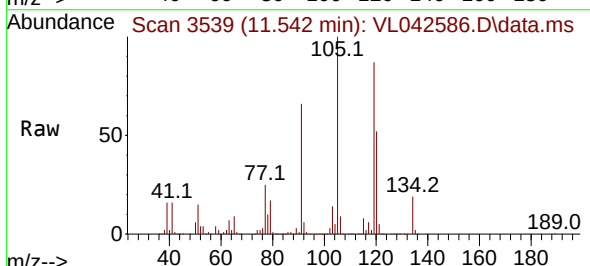
Ion Ratio Lower Upper

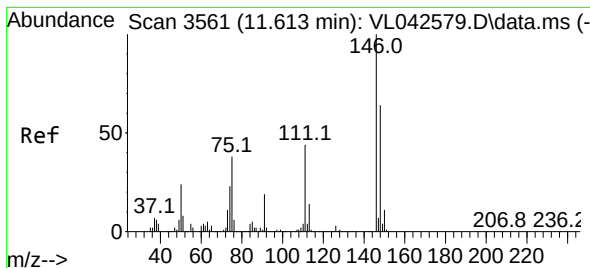
105 100

120 51.6 40.8 61.2

91 66.2 46.8 70.2

77 24.6 18.2 27.2





#75

1,3-Dichlorobenzene

Concen: 8.886 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL052925

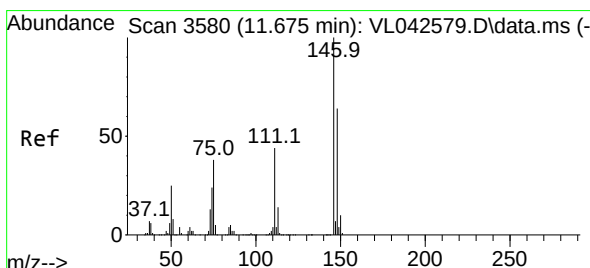
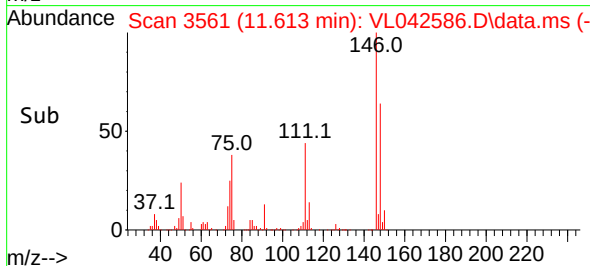
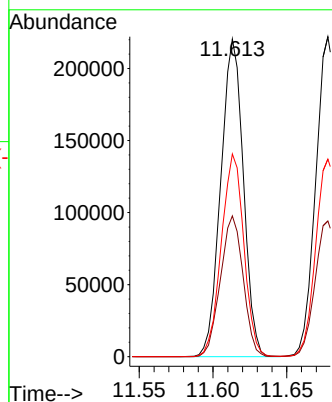
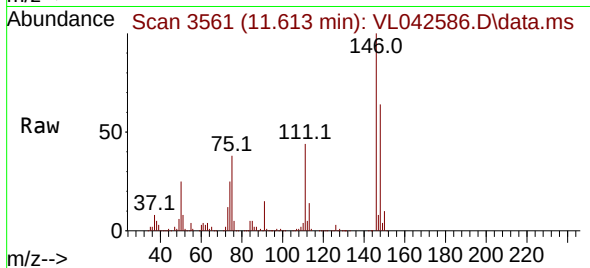
Tgt Ion:146 Resp: 234700

Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.4	67.3
148	63.8	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#76

1,4-Dichlorobenzene

Concen: 9.034 ppbv

RT: 11.678 min Scan# 3581

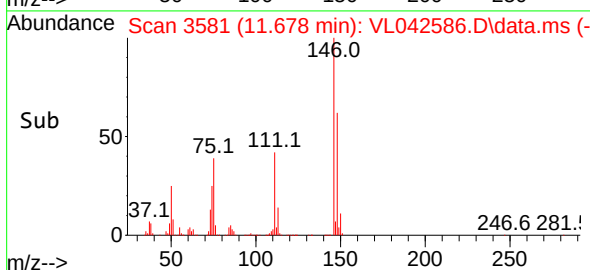
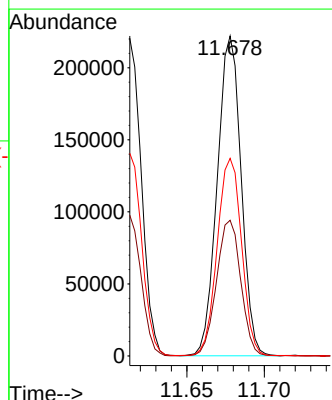
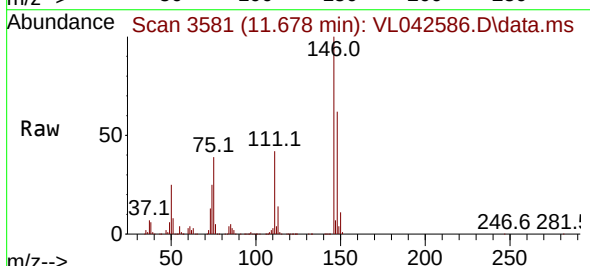
Delta R.T. 0.003 min

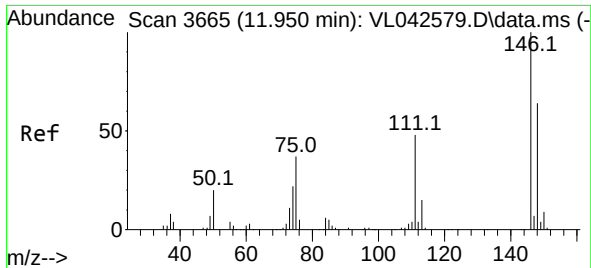
Lab File: VL042586.D

Acq: 29 May 2025 14:56

Tgt Ion:146 Resp: 237978

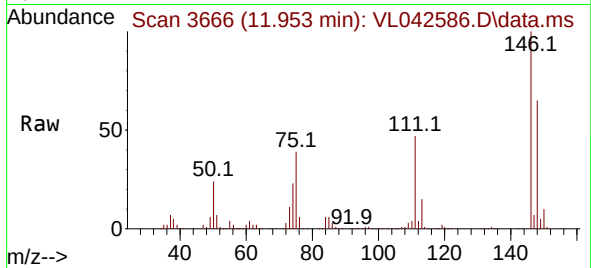
Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.6	64.8
148	63.3	32.1	96.5





#77
1,2-Dichlorobenzene
Concen: 8.754 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

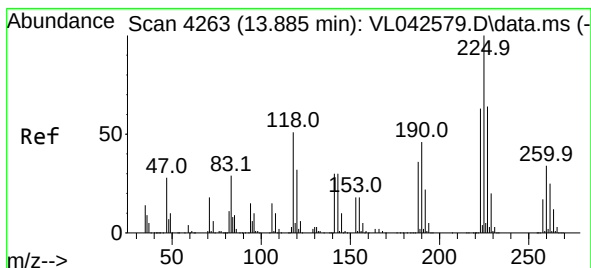
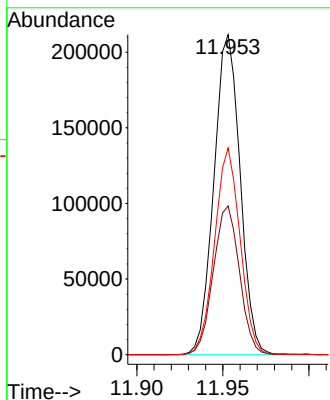
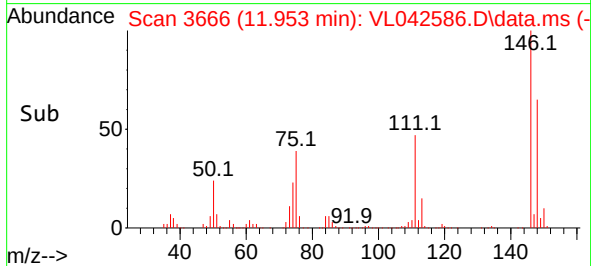
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925



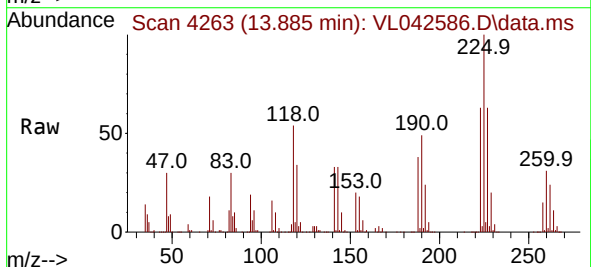
Tgt Ion:146 Resp: 224400
Ion Ratio Lower Upper
146 100
111 46.6 23.1 69.3
148 63.1 32.1 96.3

Manual Integrations
APPROVED

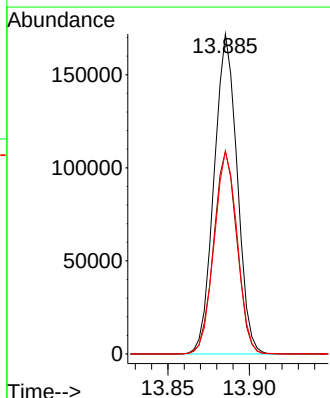
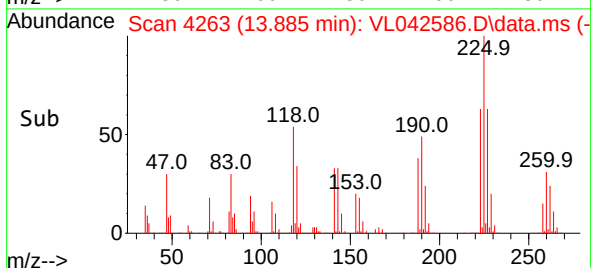
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

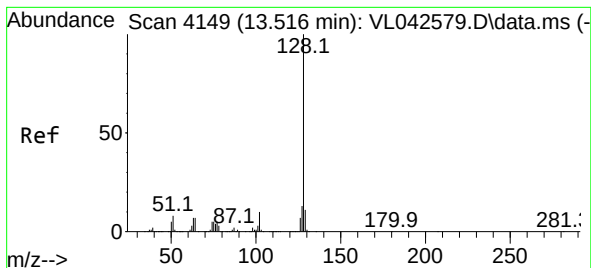


#78
Hexachloro-1,3-Butadiene
Concen: 7.977 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56



Tgt Ion:225 Resp: 169185
Ion Ratio Lower Upper
225 100
223 63.6 50.2 75.4
227 63.5 51.1 76.7





#79

Naphthalene

Concen: 9.666 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL042586.D

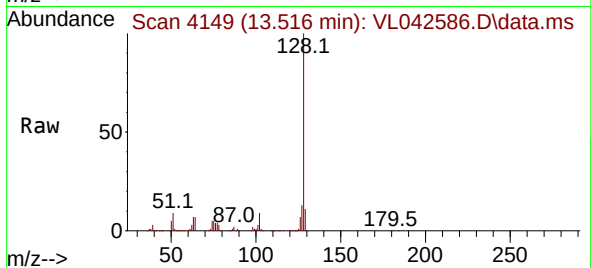
Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL052925



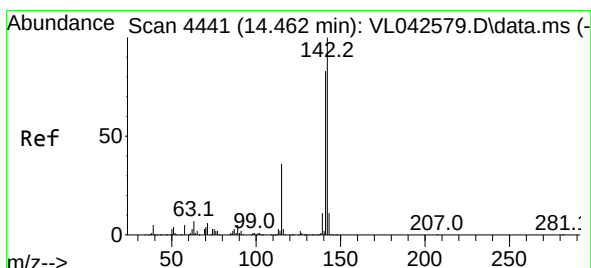
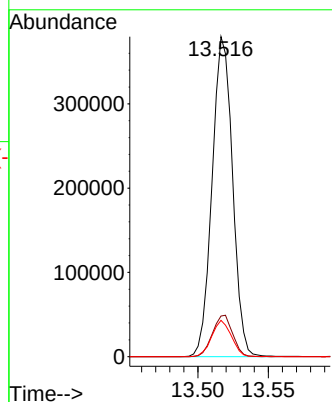
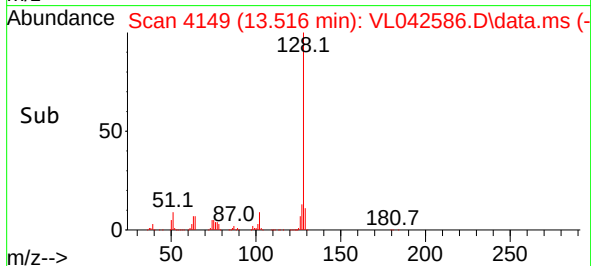
Tgt Ion:128 Resp: 383192

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.4
129	11.3	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#80

Naphthalene,2-methyl-

Concen: 10.853 ppbv

RT: 14.461 min Scan# 4441

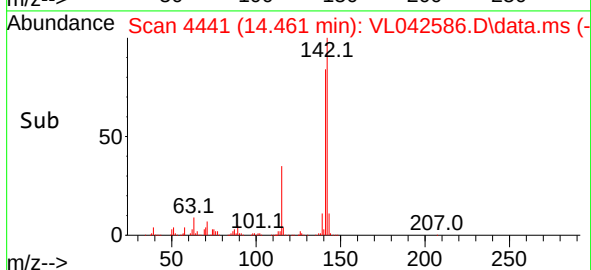
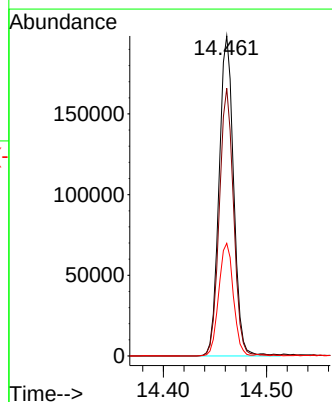
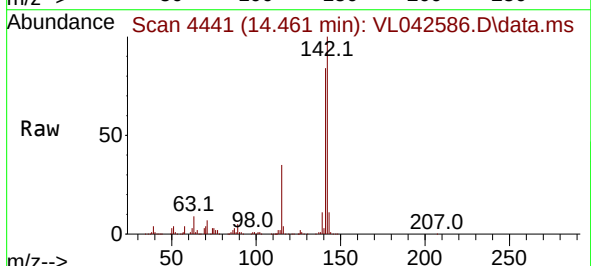
Delta R.T. -0.000 min

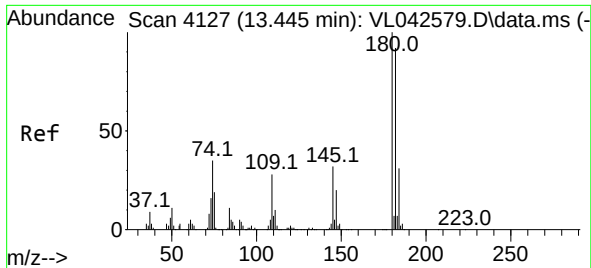
Lab File: VL042586.D

Acq: 29 May 2025 14:56

Tgt Ion:142 Resp: 194375

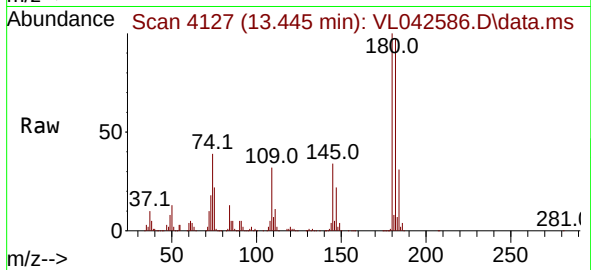
Ion	Ratio	Lower	Upper
142	100		
141	83.1	66.2	99.4
115	36.0	28.3	42.5





#81
 1,2,4-Trichlorobenzene
 Concen: 8.978 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

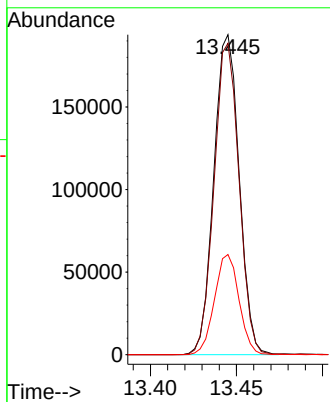
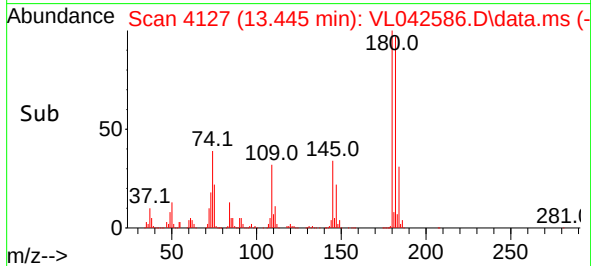
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925



Tgt Ion:180 Resp: 198690
 Ion Ratio Lower Upper
 180 100
 182 96.1 75.0 112.4
 184 30.4 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	100	0.00
2 T	Dichlorodifluoromethane	1.229	1.125	8.5	99	0.00
3	Chlorodifluoromethane	1.693	1.465	13.5	99	0.00
4	Chloromethane	0.487	0.449	7.8	97	0.00
5 T	Vinyl Chloride	0.496	0.429	13.5	98	0.00
6 T	Bromomethane	0.241	0.204	15.4	94	0.00
7	Chloroethane	0.193	0.165	14.5	94	0.00
8 T	Dichlorotetrafluoroethane	1.024	0.955	6.7	100	0.00
9 T	Propene	0.682	0.592	13.2	91	0.00
10 T	Heptane	1.921	1.749	9.0	98	0.00
11 T	Trichlorofluoromethane	1.144	1.085	5.2	101	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.898	0.883	1.7	105	0.00
13	Ethanol	0.081	0.052	35.8#	89	0.00
14 T	Bromoethene	0.338	0.311	8.0	98	0.00
15 T	Acetone	1.205	0.915	24.1	98	0.00
16 T	1,3-Butadiene	0.571	0.503	11.9	102	0.00
17	tert-Butyl alcohol	1.255	1.206	3.9	97	0.00
18 T	1,1-Dichloroethene	0.416	0.392	5.8	104	0.00
19 T	Isopropyl Alcohol	0.720	0.641	11.0	97	0.00
20 T	Methylene Chloride	0.398	0.336	15.6	102	0.00
21 T	Allyl Chloride	0.850	0.790	7.1	100	0.00
22 T	trans-1,2-Dichloroethene	0.465	0.453	2.6	106	0.00
23 T	Vinyl Acetate	1.628	1.645	-1.0	112	0.00
24 T	1,1-Dichloroethane	0.957	0.900	6.0	99	0.00
25 T	Ethyl Acetate	3.296	3.023	8.3	99	0.00
26 T	Hexane	1.498	1.331	11.1	98	0.00
27 T	Carbon Disulfide	1.150	1.120	2.6	104	0.00
28 T	Methyl tert-Butyl Ether	0.608	0.565	7.1	102	0.00
29 T	Chloroform	1.948	1.764	9.4	100	0.00
30 T	Cyclohexane	1.242	1.142	8.1	99	0.00
31 T	cis-1,2-Dichloroethene	1.370	1.275	6.9	100	0.00
32 T	1,1,1-Trichloroethane	1.990	1.806	9.2	100	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
34 T	2-Butanone	0.713	0.658	7.7	98	0.00
35 T	Carbon Tetrachloride	0.660	0.619	6.2	100	0.00
36 T	Benzene	0.985	0.911	7.5	99	0.00
37 T	1,2-Dichloroethane	0.489	0.468	4.3	102	0.00
38 T	Trichloroethene	0.419	0.382	8.8	99	0.00
39 T	1,2-Dichloropropane	0.364	0.327	10.2	97	0.00
40 T	1,4-Dioxane	0.163	0.152	6.7	98	0.00
41 T	Tetrahydrofuran	0.417	0.389	6.7	98	0.00
42 T	Bromodichloromethane	0.695	0.673	3.2	100	0.00
43	Methyl Methacrylate	0.382	0.360	5.8	96	0.00
44 T	2,2,4-Trimethylpentane	1.684	1.532	9.0	98	0.00
45 T	t-1,3-Dichloropropene	0.437	0.417	4.6	96	0.00
46 T	cis-1,3-Dichloropropene	0.548	0.521	4.9	97	0.00
47 T	1,1,2-Trichloroethane	0.377	0.343	9.0	98	0.00
48 T	Dibromochloromethane	0.603	0.567	6.0	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	0.521	0.507	2.7	98	0.00
50 T	4-Methyl-2-Pentanone	0.989	0.927	6.3	95	0.00
51 T	2-Hexanone	0.784	0.757	3.4	95	0.00
52 T	Tetrachloroethene	0.368	0.328	10.9	97	0.00
53 T	Toluene	1.138	1.062	6.7	98	0.00
54 T	1,2-Dibromoethane	0.558	0.522	6.5	99	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
56	1,1,1,2-Tetrachloroethane	0.503	0.463	8.0	96	0.00
57 T	Chlorobenzene	0.971	0.879	9.5	98	0.00
58 T	Ethyl Benzene	1.696	1.567	7.6	98	0.00
59 T	m/p-Xylene	1.335	1.227	8.1	98	0.02
60 T	o-Xylene	1.331	1.207	9.3	98	0.00
61 T	Styrene	0.629	0.591	6.0	97	0.00
62	Isopropylbenzene	1.967	1.780	9.5	97	0.00
63 T	1,1,2,2-Tetrachloroethane	0.847	0.741	12.5	99	0.00
64	n-propylbenzene	0.527	0.477	9.5	98	0.00
65	tert-Butylbenzene	1.785	1.563	12.4	96	0.00
66 T	Benzyl Chloride	0.230	0.217	5.7	87	0.00
67	sec-Butylbenzene	2.509	2.204	12.2	97	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.739	1.5	96	0.00
69	p-Isopropyltoluene	2.101	1.859	11.5	96	0.00
70	n-Butylbenzene	2.074	1.867	10.0	98	0.00
71	2-Chlorotoluene	1.500	1.368	8.8	98	0.00
72 T	4-Ethyltoluene	1.660	1.496	9.9	98	0.00
73 T	1,3,5-Trimethylbenzene	1.374	1.254	8.7	98	0.00
74 T	1,2,4-Trimethylbenzene	1.524	1.348	11.5	97	0.00
75 T	1,3-Dichlorobenzene	0.957	0.851	11.1	98	0.00
76 T	1,4-Dichlorobenzene	0.955	0.863	9.6	98	0.00
77 T	1,2-Dichlorobenzene	0.929	0.813	12.5	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.769	0.613	20.3	98	0.00
79 T	Naphthalene	1.437	1.389	3.3	97	0.00
80 T	Naphthalene,2-methyl-	0.649	0.705	-8.6	95	0.00
81 T	1,2,4-Trichlorobenzene	0.802	0.720	10.2	95	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WATE03

Lab Code: CHEM Case No.: Q2359 SAS No.: Q2359 SDG No.: Q2359

Instrument ID: MSVOA_L Calibration Date/Time: 06/19/2025 08:56

Lab File ID: VL042647.D Init. Calib. Date(s): 05/29/2025 05/29/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:24

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.229	1.288		4.8	30
Chloromethane	0.487	0.488		0.2	30
Vinyl Chloride	0.496	0.448		-9.68	30
Bromomethane	0.241	0.223		-7.47	30
Chloroethane	0.193	0.183		-5.18	30
Tetrahydrofuran	0.417	0.441		5.76	30
Trichlorofluoromethane	1.144	1.313		14.77	30
1,1,2-Trichlorotrifluoroethane	0.898	1.012		12.69	30
Dichlorotetrafluoroethane	1.024	1.047		2.25	30
tert-Butyl alcohol	1.255	1.201		-4.3	30
Heptane	1.921	1.822		-5.15	30
1,1-Dichloroethene	0.416	0.435		4.57	30
Acetone	1.205	1.058		-12.2	30
Carbon Disulfide	1.150	1.230		6.96	30
Methyl tert-Butyl Ether	0.608	0.642		5.59	30
Methylene Chloride	0.398	0.378		-5.03	30
trans-1,2-Dichloroethene	0.465	0.492		5.81	30
1,1-Dichloroethane	0.957	0.989		3.34	30
Cyclohexane	1.242	1.116		-10.15	30
2-Butanone	0.713	0.823		15.43	30
Carbon Tetrachloride	0.660	0.793		20.15	30
cis-1,2-Dichloroethene	1.370	1.350		-1.46	30
Chloroform	1.948	2.125		9.09	30
1,1,1-Trichloroethane	1.990	2.027		1.86	30
2,2,4-Trimethylpentane	1.684	1.861		10.51	30
Benzene	0.985	1.082		9.85	30
1,2-Dichloroethane	0.489	0.614		25.56	30
Trichloroethene	0.419	0.422		0.72	30
1,2-Dichloropropane	0.364	0.405		11.26	30
Bromodichloromethane	0.695	0.860		23.74	30
4-Methyl-2-Pentanone	0.989	1.102		11.43	30
Toluene	1.138	1.178		3.52	30
t-1,3-Dichloropropene	0.437	0.464		6.18	30
cis-1,3-Dichloropropene	0.548	0.591		7.85	30
1,1,2-Trichloroethane	0.377	0.425		12.73	30
Dibromochloromethane	0.603	0.689		14.26	30
1,2-Dibromoethane	0.558	0.630		12.9	30
Tetrachloroethene	0.368	0.367		-0.27	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: WATE03

Lab Code: CHEM Case No.: Q2359 SAS No.: Q2359 SDG No.: Q2359

Instrument ID: MSVOA_L Calibration Date/Time: 06/19/2025 08:56

Lab File ID: VL042647.D Init. Calib. Date(s): 05/29/2025 05/29/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:24

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.971	1.071		10.3	30
Ethyl Benzene	1.696	1.878		10.73	30
m/p-Xylene	1.335	1.580		18.35	30
o-Xylene	1.331	1.565		17.58	30
Styrene	0.629	0.656		4.29	30
Bromoform	0.521	0.619		18.81	30
1,1,2,2-Tetrachloroethane	0.847	1.025		21.01	30
2-Chlorotoluene	1.500	1.737		15.8	30
1,3,5-Trimethylbenzene	1.374	1.596		16.16	30
1,2,4-Trimethylbenzene	1.524	1.789		17.39	30
1,3-Dichlorobenzene	0.957	1.102		15.15	30
1,4-Dichlorobenzene	0.955	1.104		15.6	30
1,2-Dichlorobenzene	0.929	1.061		14.21	30
1,2,4-Trichlorobenzene	0.802	0.863		7.61	30
Hexachloro-1,3-Butadiene	0.769	0.762		-0.91	30
1,3-Butadiene	0.571	0.525		-8.06	30
Naphthalene	1.437	1.673		16.42	30
4-Ethyltoluene	1.660	1.927		16.08	30
1-Bromo-4-Fluorobenzene	0.750	0.814		8.53	30
Hexane	1.498	1.411		-5.81	30
Allyl Chloride	0.850	0.840		-1.18	30
1,4-Dioxane	162.953	170.847		4.84	30
Methyl Methacrylate	0.382	0.406		6.28	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\VL061925\
 Data File : VL042647.D
 Acq On : 19 Jun 2025 08:56
 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 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 01:33:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	105774	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	271342	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.898	117	241435	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 196559 10.861 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 108.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	136240	10.480	ppbv	97
3) Chlorodifluoromethane	1.479	51	173781	9.706	ppbv	97
4) Chloromethane	1.538	50	51600	10.023	ppbv	98
5) Vinyl Chloride	1.586	62	47359	9.031	ppbv	98
6) Bromomethane	1.674	94	23626	9.256	ppbv	92
7) Chloroethane	1.709	64	19363	9.503	ppbv	94
8) Dichlorotetrafluoroethane	1.560	85	110759	10.225	ppbv	99
9) Propene	1.489	41	61227	8.492	ppbv	93
10) Heptane	4.998	43	192684	9.481	ppbv	100
11) Trichlorofluoromethane	1.884	101	138922	11.485	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	107085	11.274	ppbv	97
13) Ethanol	1.729	45	5756	6.699	ppbv	94
14) Bromoethene	1.787	108	36607	10.246	ppbv	98
15) Acetone	1.842	43	111893	8.782	ppbv	97
16) 1,3-Butadiene	1.615	39	55514	9.198	ppbv	95
17) tert-Butyl alcohol	2.046	59	127048	9.572	ppbv	99
18) 1,1-Dichloroethene	2.043	96	46032	10.456	ppbv	88
19) Isopropyl Alcohol	1.894	45	71320	9.364	ppbv	97
20) Methylene Chloride	2.068	84	40012	9.516	ppbv	97
21) Allyl Chloride	2.104	41	88888	9.888	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	51990	10.572	ppbv	97
23) Vinyl Acetate	2.470	43	216348	12.562	ppbv #	97
24) 1,1-Dichloroethane	2.418	63	104587	10.337	ppbv	98
25) Ethyl Acetate	2.845	43	344364	9.877	ppbv	100
26) Hexane	2.836	57	149241	9.420	ppbv	97
27) Carbon Disulfide	2.159	76	130069	10.694	ppbv	93
28) Methyl tert-Butyl Ether	2.450	73	67907	10.562	ppbv	97
29) Chloroform	2.858	83	224802	10.911	ppbv	94
30) Cyclohexane	3.871	84	118051	8.988	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	142746	9.850	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	214355	10.183	ppbv	98
34) 2-Butanone	2.567	43	223326	11.541	ppbv	99
35) Carbon Tetrachloride	3.777	117	215300	12.020	ppbv	99
36) Benzene	3.671	78	293622	10.989	ppbv	99
37) 1,2-Dichloroethane	3.230	62	166507	12.538	ppbv	98
38) Trichloroethene	4.567	130	114475	10.079	ppbv	87
39) 1,2-Dichloropropane	4.334	63	109999	11.132	ppbv	97
40) 1,4-Dioxane	4.600	88	46358	10.484	ppbv #	87
41) Tetrahydrofuran	3.065	42	119620	10.561	ppbv	98
42) Bromodichloromethane	4.509	83	233466	12.378	ppbv	100
43) Methyl Methacrylate	4.901	69	110041	10.611	ppbv	98
44) 2,2,4-Trimethylpentane	4.661	57	504893	11.047	ppbv	98
45) t-1,3-Dichloropropene	6.438	75	125932	10.611	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042647.D
 Acq On : 19 Jun 2025 08:56
 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 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 01:33:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

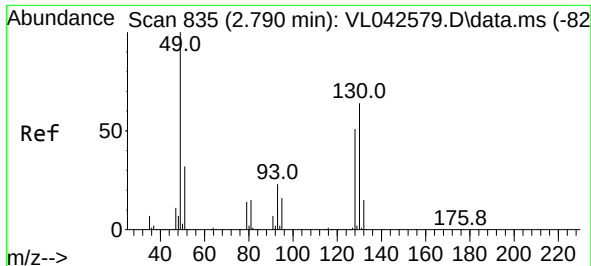
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

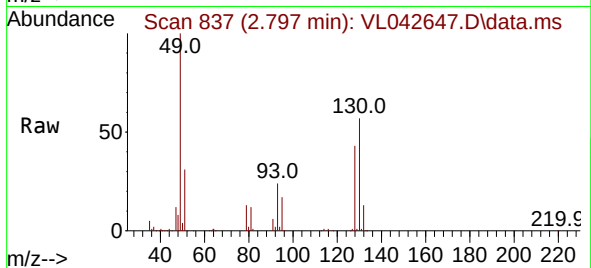
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	160436	10.789	ppbv	98
47) 1,1,2-Trichloroethane	6.603	97	115320	11.274	ppbv	95
48) Dibromochloromethane	7.409	129	187063	11.424	ppbv	100
49) Bromoform	9.500	173	168088	11.897	ppbv	99
50) 4-Methyl-2-Pentanone	5.774	43	298895	11.136	ppbv	98
51) 2-Hexanone	7.454	43	237889	11.175	ppbv #	97
52) Tetrachloroethene	8.244	164	99591	9.974	ppbv	95
53) Toluene	6.956	91	319753	10.354	ppbv	99
54) 1,2-Dibromoethane	7.671	107	170816	11.282	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.943	131	145178	11.959	ppbv	97
57) Chlorobenzene	8.940	112	258681	11.034	ppbv	99
58) Ethyl Benzene	9.370	91	453357	11.070	ppbv	95
59) m/p-Xylene	9.568	91	763052m	23.676	ppbv	
60) o-Xylene	9.979	91	377860	11.756	ppbv	97
61) Styrene	9.888	104	158381	10.422	ppbv	97
62) Isopropylbenzene	10.552	105	548530	11.551	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.979	83	247429	12.106	ppbv	99
64) n-propylbenzene	11.002	120	145207	11.407	ppbv	94
65) tert-Butylbenzene	11.542	119	482745	11.202	ppbv	97
66) Benzyl Chloride	11.630	91	53662	9.674	ppbv	97
67) sec-Butylbenzene	11.778	105	690565	11.398	ppbv	98
69) p-Isopropyltoluene	11.937	119	569182	11.219	ppbv	98
70) n-Butylbenzene	12.293	91	589246	11.766	ppbv	98
71) 2-Chlorotoluene	10.914	91	419351	11.577	ppbv	96
72) 4-Ethyltoluene	11.138	105	465148	11.607	ppbv	98
73) 1,3,5-Trimethylbenzene	11.215	105	385257	11.615	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	431897	11.734	ppbv	91
75) 1,3-Dichlorobenzene	11.620	146	266086	11.512	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	266486	11.560	ppbv	98
77) 1,2-Dichlorobenzene	11.960	146	256200	11.421	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	183922	9.909	ppbv	99
79) Naphthalene	13.523	128	403844	11.640	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	190371	12.145	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	208409	10.761	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

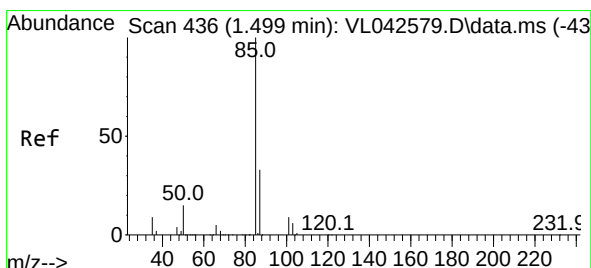
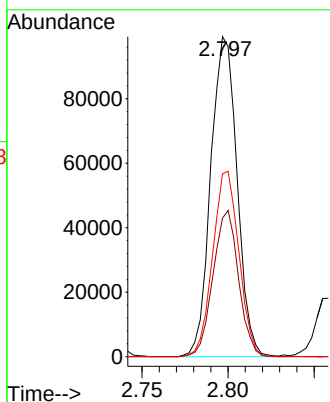
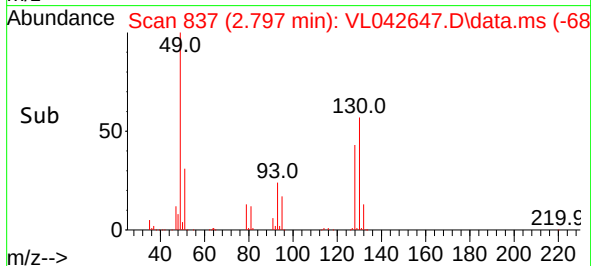
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



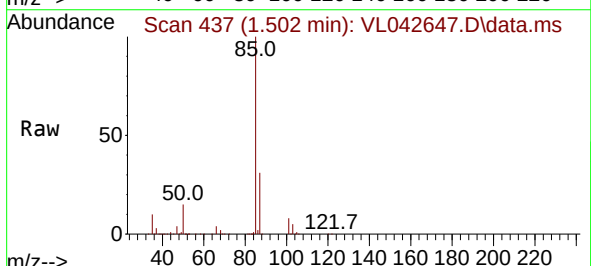
Tgt Ion: 49 Resp: 105774
Ion Ratio Lower Upper
49 100
128 44.2 24.2 72.6
130 57.6 30.4 91.2

Manual Integrations
APPROVED

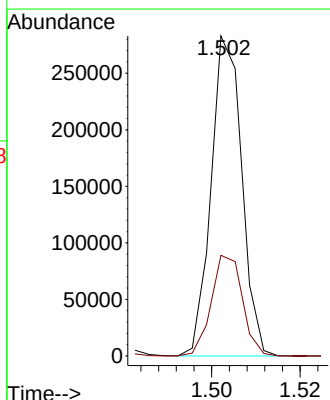
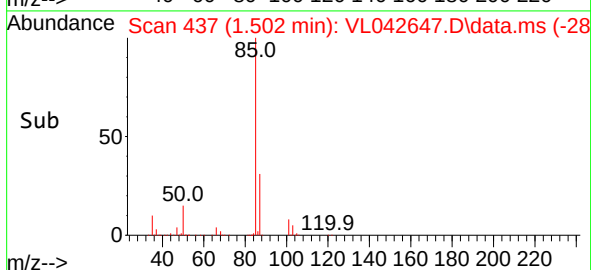
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

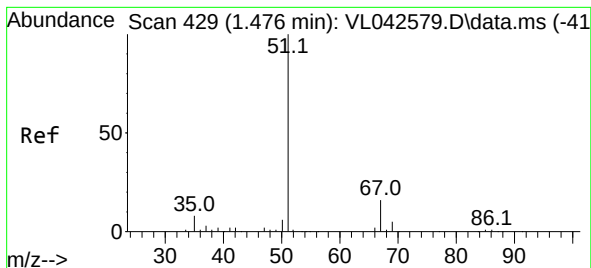


#2
Dichlorodifluoromethane
Concen: 10.480 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56



Tgt Ion: 85 Resp: 136240
Ion Ratio Lower Upper
85 100
87 31.4 26.6 39.8





#3

Chlorodifluoromethane

Concen: 9.706 ppbv

RT: 1.479 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 51 Resp: 17378

Ion Ratio Lower Upper

51 100

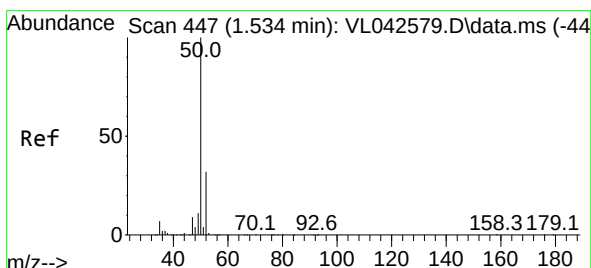
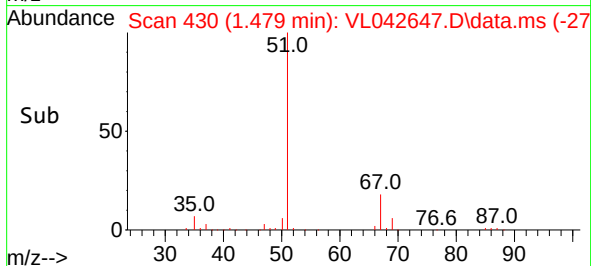
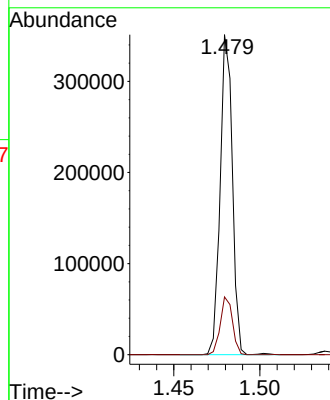
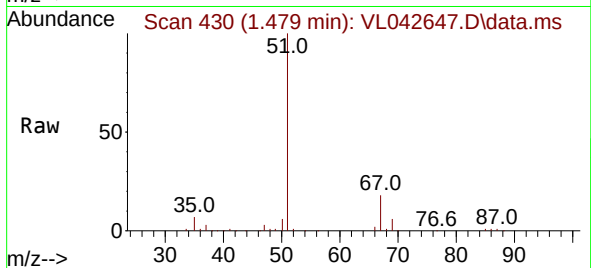
67 18.1 13.4 20.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#4

Chloromethane

Concen: 10.023 ppbv

RT: 1.538 min Scan# 448

Delta R.T. 0.003 min

Lab File: VL042647.D

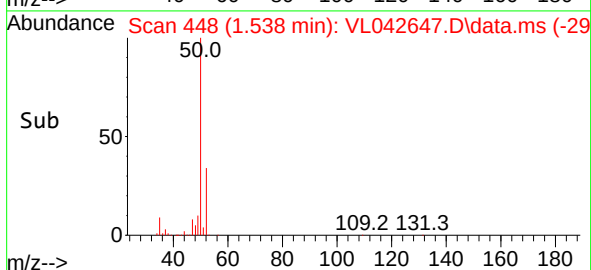
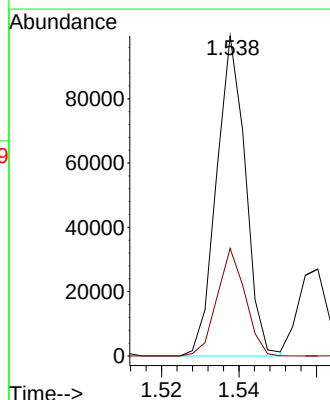
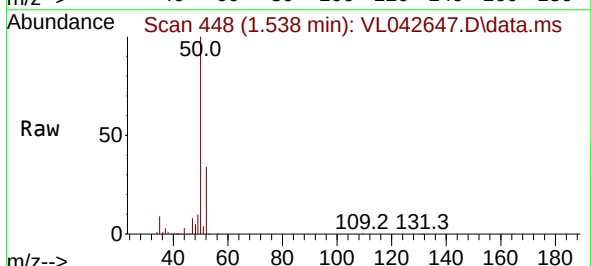
Acq: 19 Jun 2025 08:56

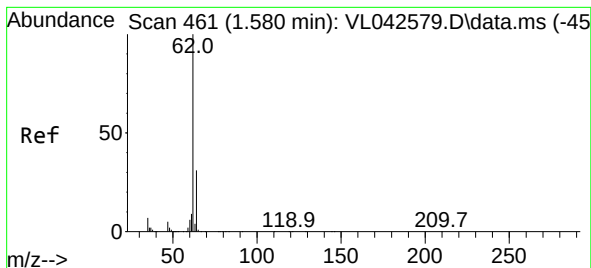
Tgt Ion: 50 Resp: 51600

Ion Ratio Lower Upper

50 100

52 33.6 25.8 38.6





#5

Vinyl Chloride

Concen: 9.031 ppbv

RT: 1.586 min Scan# 4

Delta R.T. 0.006 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 62 Resp: 4735

Ion Ratio Lower Upper

62 100

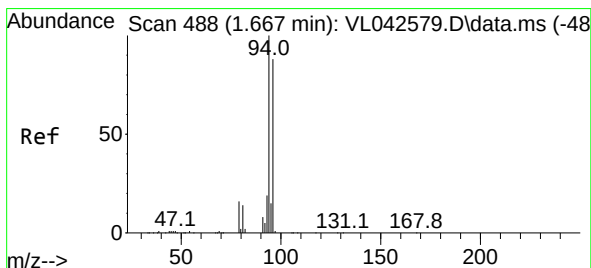
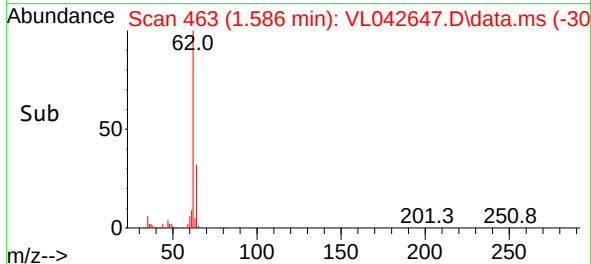
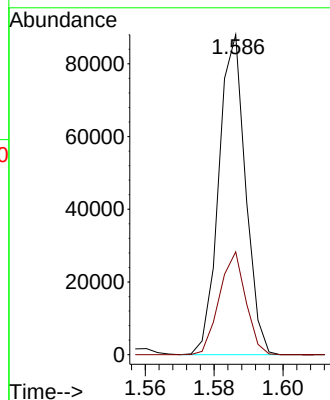
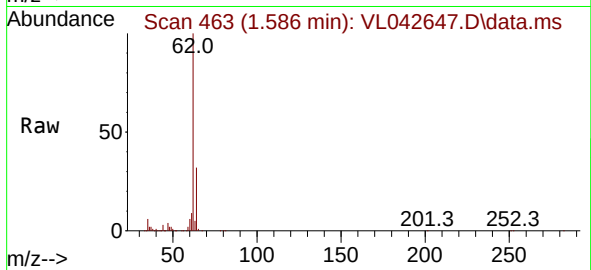
64 32.1 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#6

Bromomethane

Concen: 9.256 ppbv

RT: 1.674 min Scan# 490

Delta R.T. 0.007 min

Lab File: VL042647.D

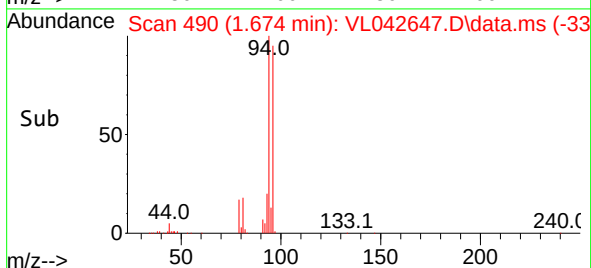
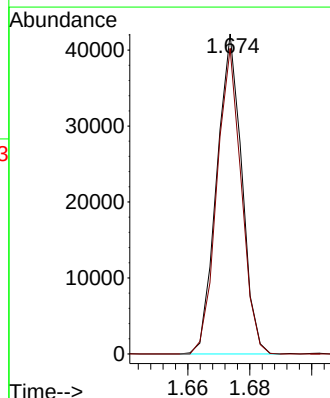
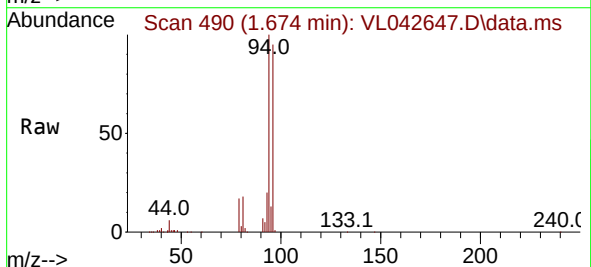
Acq: 19 Jun 2025 08:56

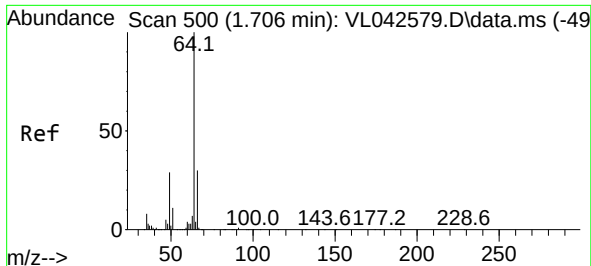
Tgt Ion: 94 Resp: 23626

Ion Ratio Lower Upper

94 100

96 95.5 70.7 106.1





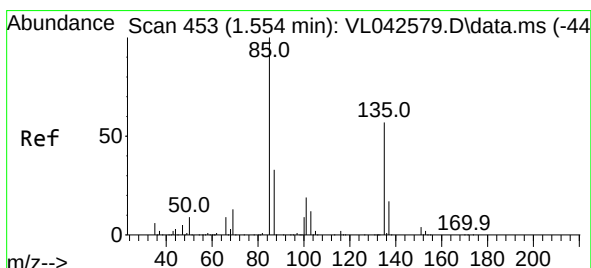
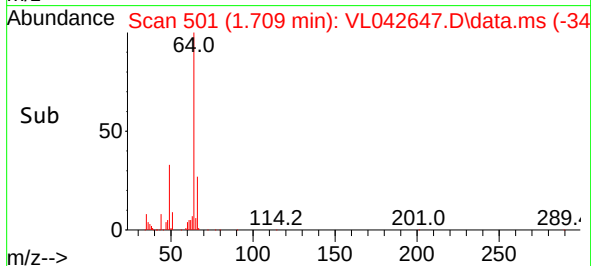
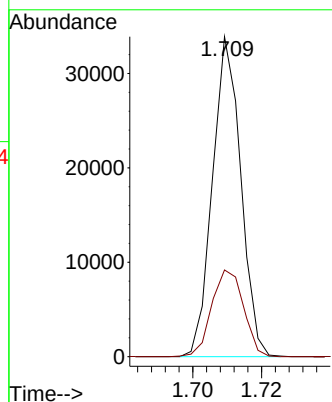
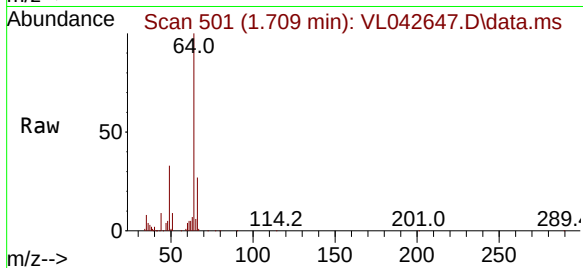
#7
Chloroethane
Concen: 9.503 ppbv
RT: 1.709 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 64 Resp: 1936
Ion Ratio Lower Upper
64 100
66 27.1 24.3 36.5

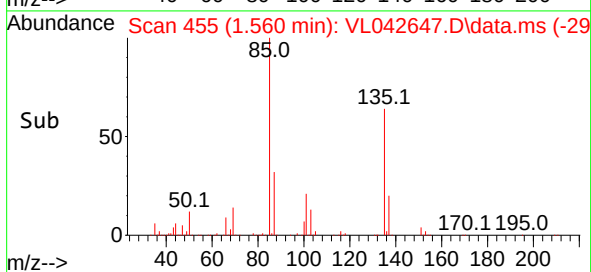
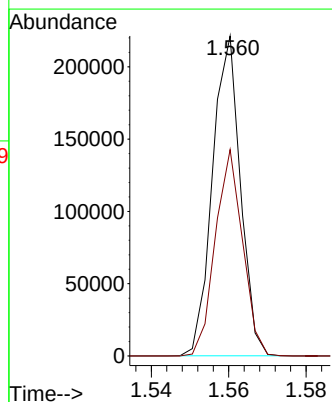
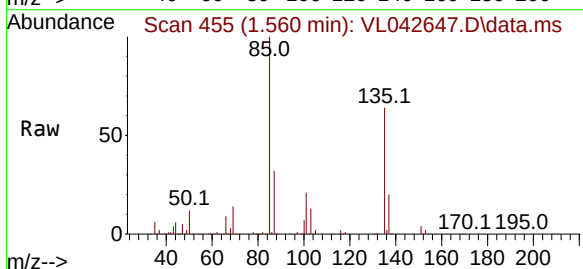
Manual Integrations
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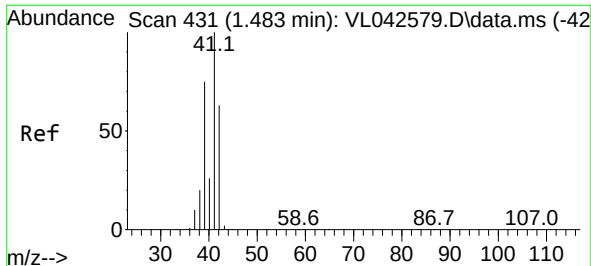
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#8
Dichlorotetrafluoroethane
Concen: 10.225 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 85 Resp: 110759
Ion Ratio Lower Upper
85 100
135 63.2 50.2 75.4





#9

Propene

Concen: 8.492 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 41 Resp: 6122

Ion Ratio Lower Upper

41 100

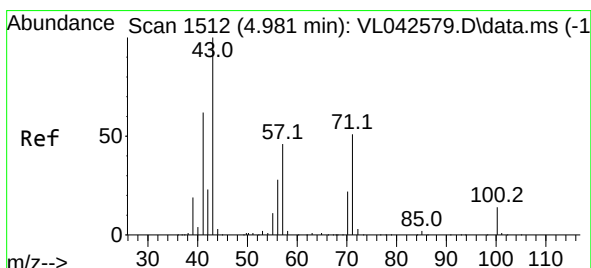
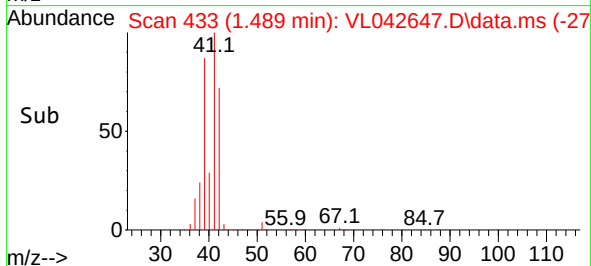
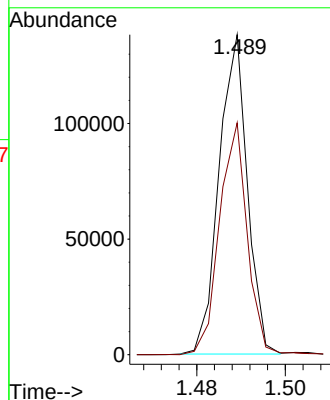
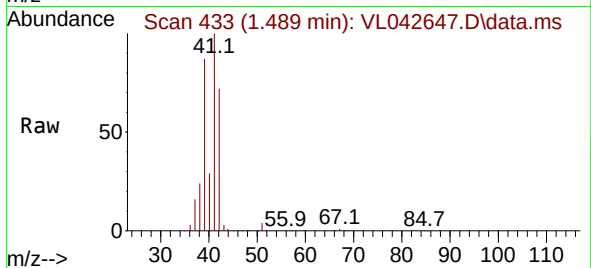
42 72.3 53.3 79.9

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Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#10

Heptane

Concen: 9.481 ppbv

RT: 4.998 min Scan# 1517

Delta R.T. 0.016 min

Lab File: VL042647.D

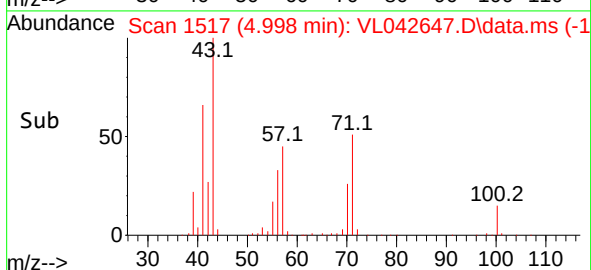
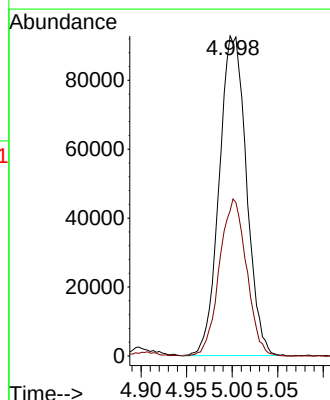
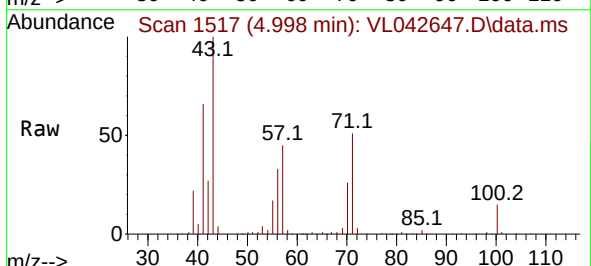
Acq: 19 Jun 2025 08:56

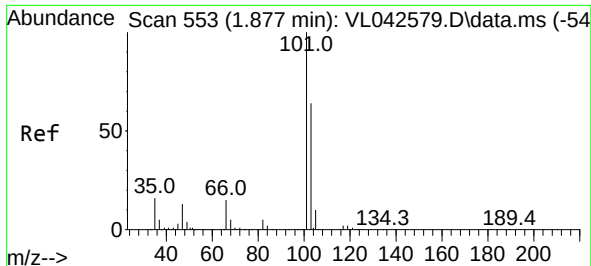
Tgt Ion: 43 Resp: 192684

Ion Ratio Lower Upper

43 100

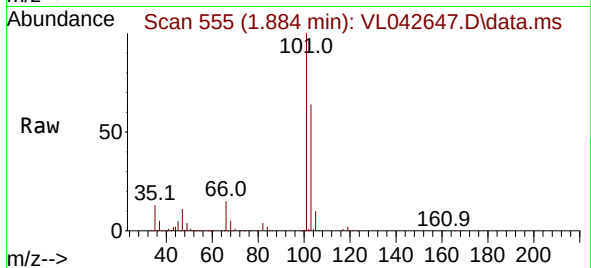
57 48.9 38.9 58.3





#11
Trichlorofluoromethane
Concen: 11.485 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

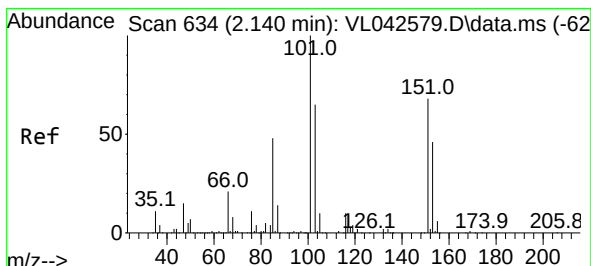
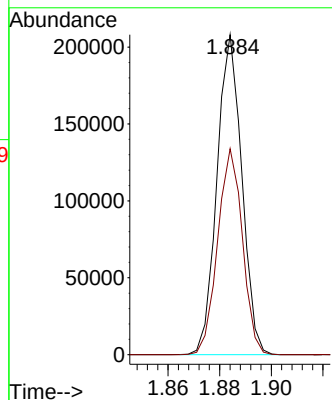
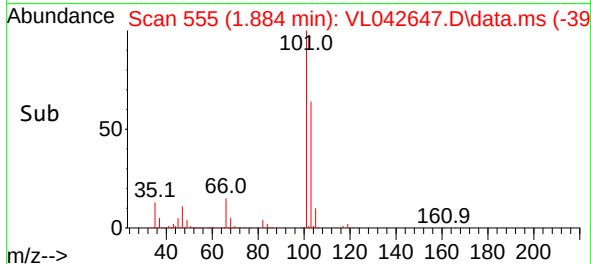
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



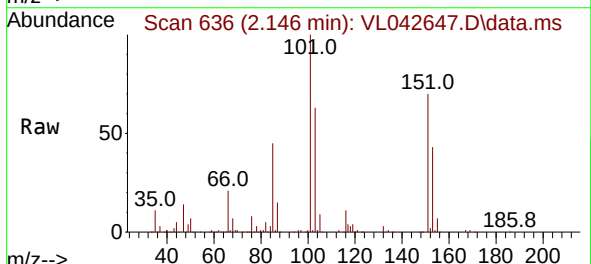
Tgt Ion:101 Resp: 13892
Ion Ratio Lower Upper
101 100
103 64.3 51.5 77.3

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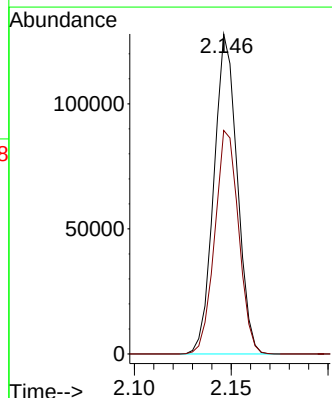
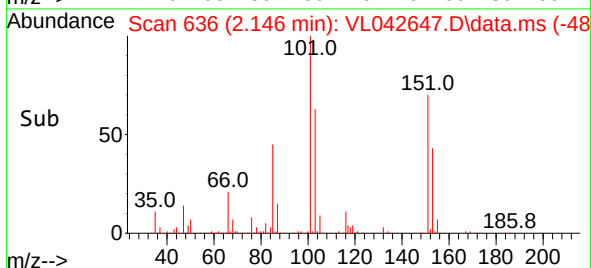
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

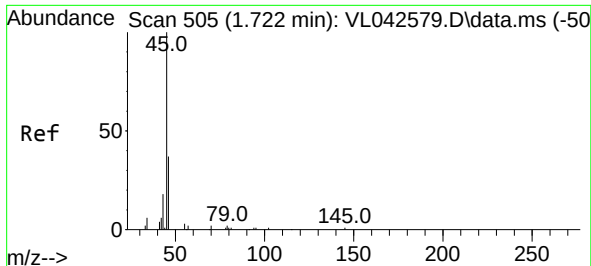


#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.274 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56



Tgt Ion:101 Resp: 107085
Ion Ratio Lower Upper
101 100
151 71.5 55.3 82.9





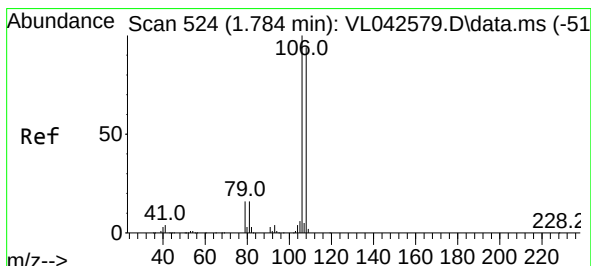
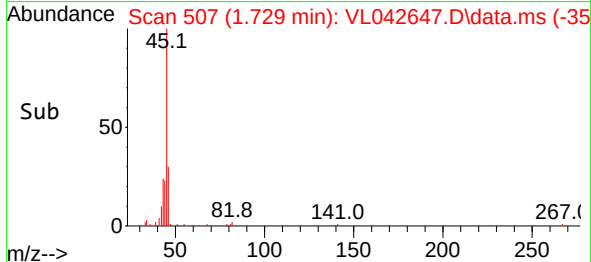
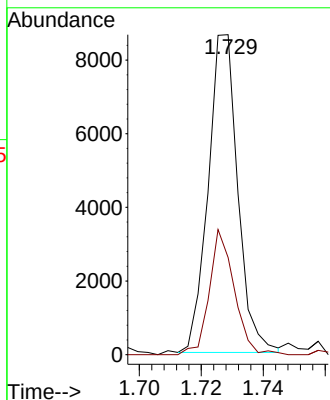
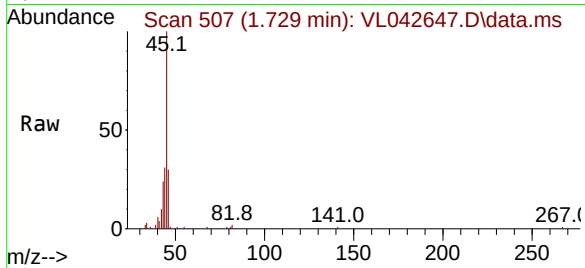
#13
Ethanol
Concen: 6.699 ppbv
RT: 1.729 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 5750
Ion Ratio Lower Upper
45 100
46 33.0 14.5 58.1

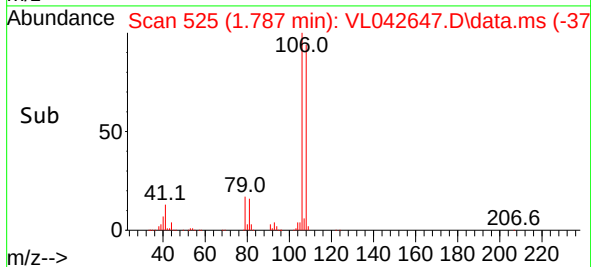
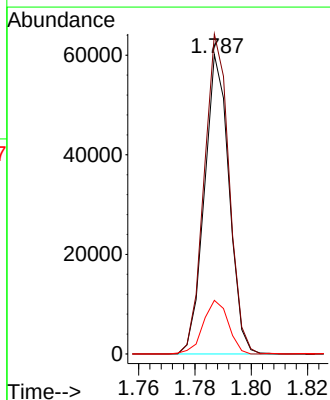
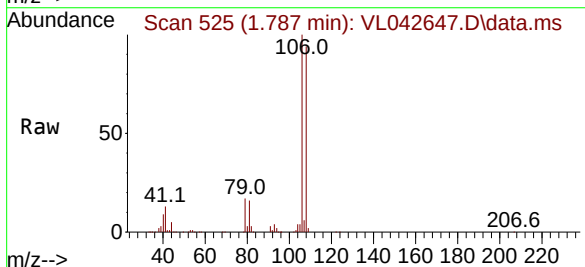
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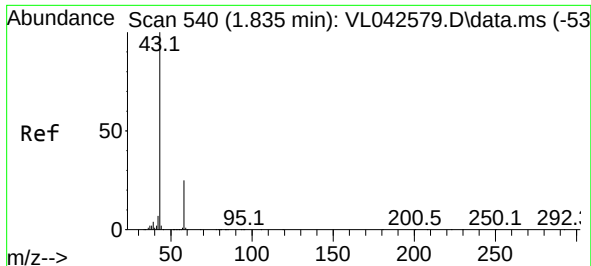
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#14
Bromoethene
Concen: 10.246 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

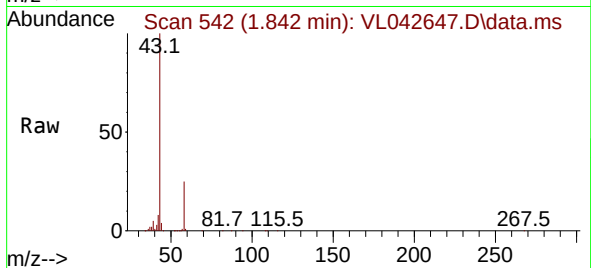
Tgt Ion:108 Resp: 36607
Ion Ratio Lower Upper
108 100
106 107.9 87.9 131.9
79 18.4 15.6 23.4





#15
Acetone
Concen: 8.782 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

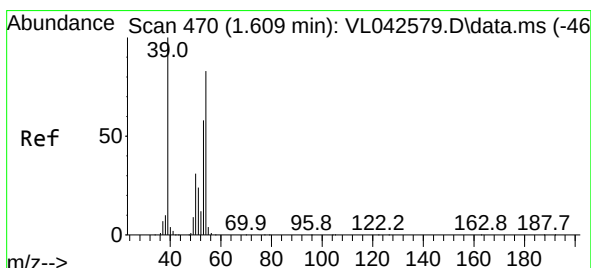
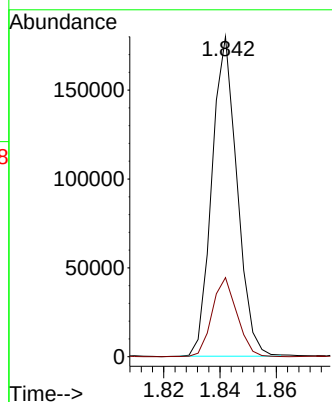
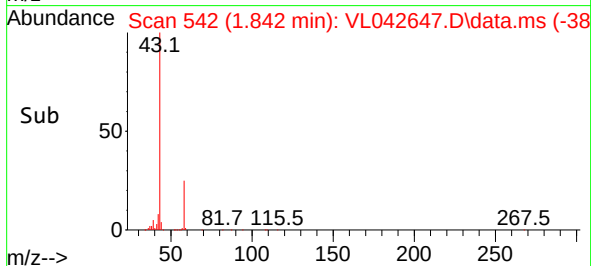
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



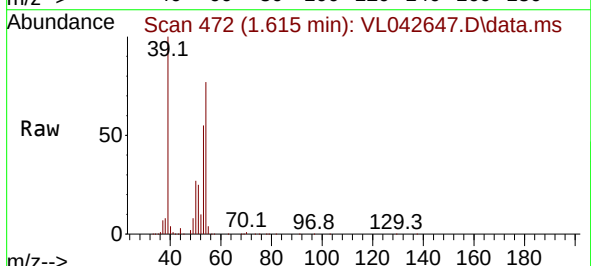
Tgt Ion: 43 Resp: 11189
Ion Ratio Lower Upper
43 100
58 24.5 21.0 31.4

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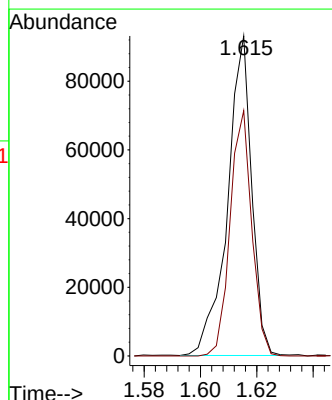
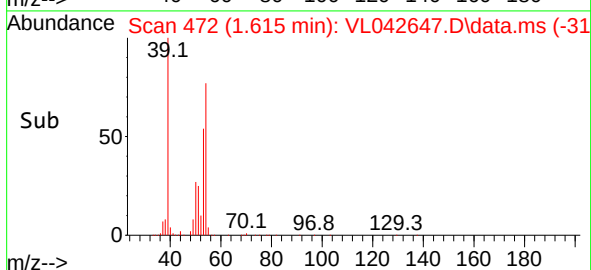
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

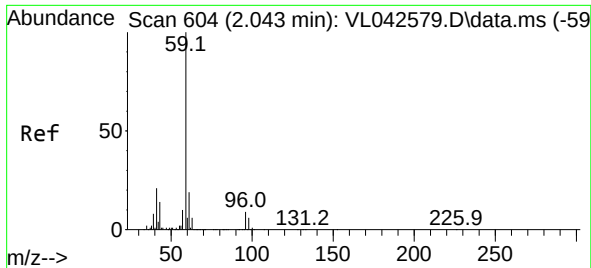


#16
1,3-Butadiene
Concen: 9.198 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.007 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56



Tgt Ion: 39 Resp: 55514
Ion Ratio Lower Upper
39 100
54 68.5 57.9 86.9





#17

tert-Butyl alcohol

Concen: 9.572 ppbv

RT: 2.046 min Scan# 605

Delta R.T. 0.003 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 59 Resp: 127048

Ion Ratio Lower Upper

59 100

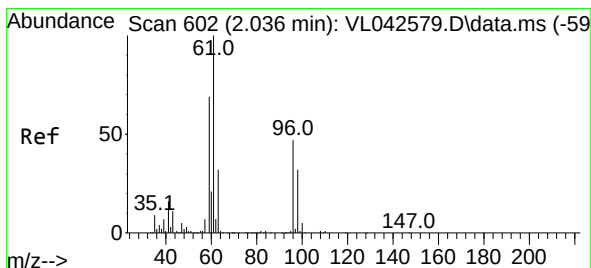
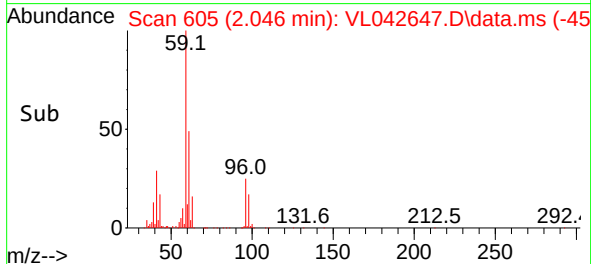
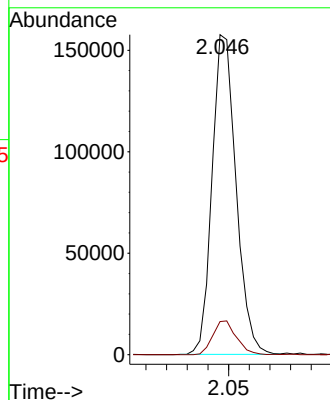
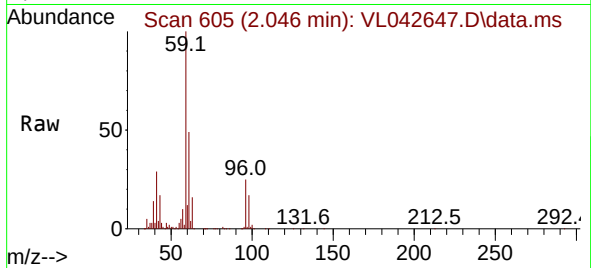
57 10.5 8.6 12.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#18

1,1-Dichloroethene

Concen: 10.456 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.007 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

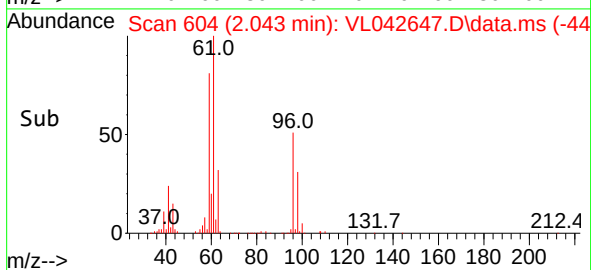
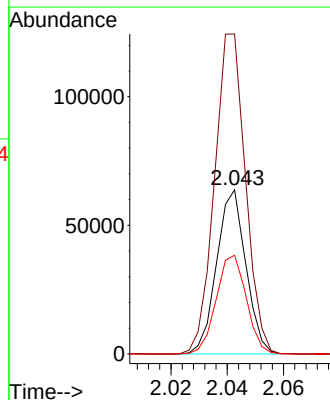
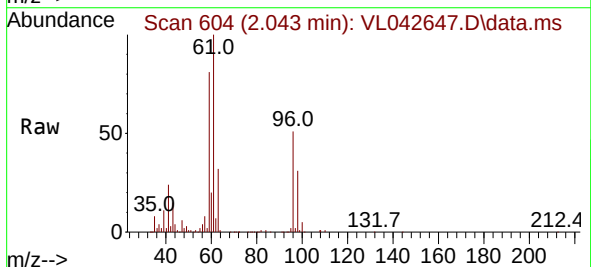
Tgt Ion: 96 Resp: 46032

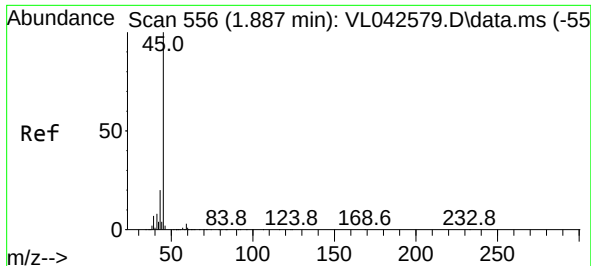
Ion Ratio Lower Upper

96 100

61 194.8 171.1 256.7

98 60.1 54.4 81.6





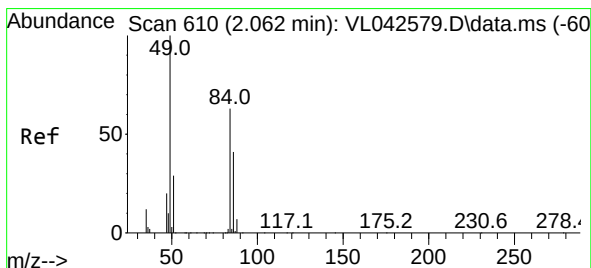
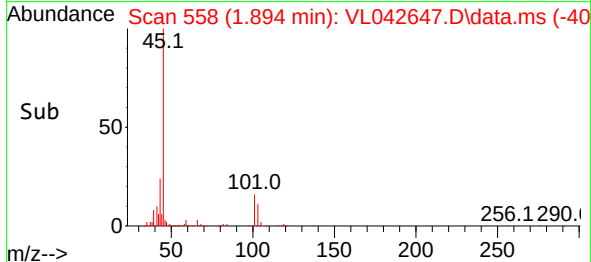
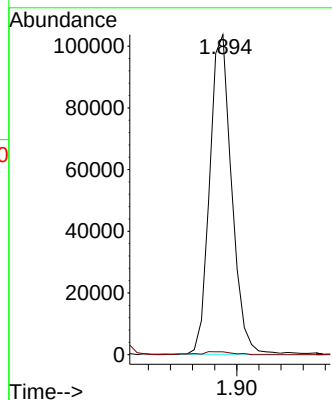
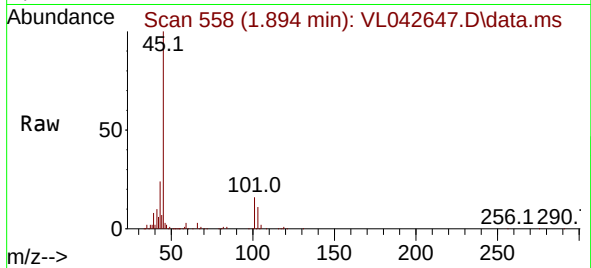
#19
Isopropyl Alcohol
Concen: 9.364 ppbv
RT: 1.894 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 71320
Ion Ratio Lower Upper
45 100
58 38.4 29.4 44.2

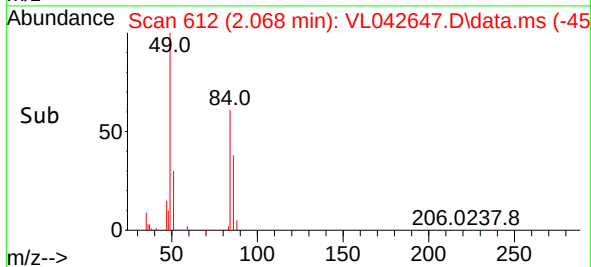
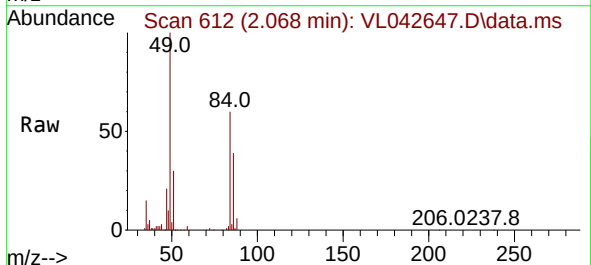
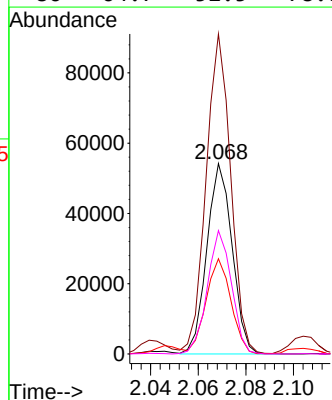
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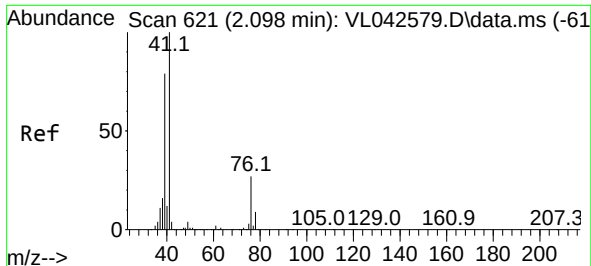
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#20
Methylene Chloride
Concen: 9.516 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 84 Resp: 40012
Ion Ratio Lower Upper
84 100
49 166.3 128.8 193.2
51 49.5 38.6 57.8
86 64.7 52.5 78.7





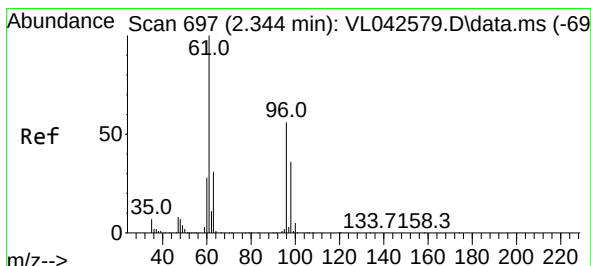
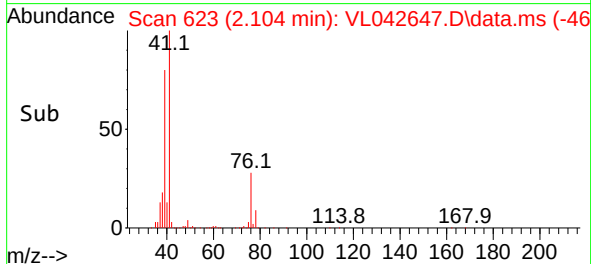
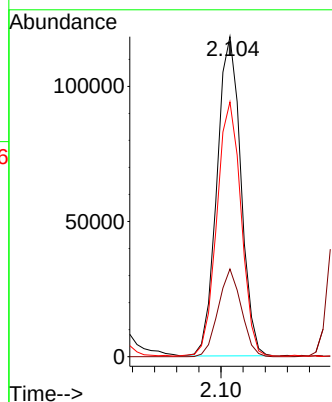
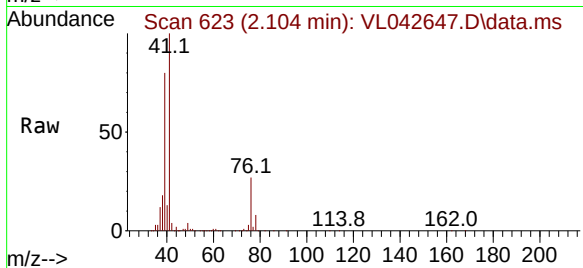
#21
 Allyl Chloride
 Concen: 9.888 ppbv
 RT: 2.104 min Scan# 611
 Delta R.T. 0.007 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 41 Resp: 8888
 Ion Ratio Lower Upper
 41 100
 76 26.5 21.2 31.8
 39 81.0 60.9 91.3

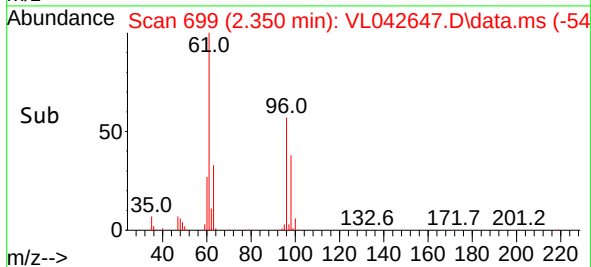
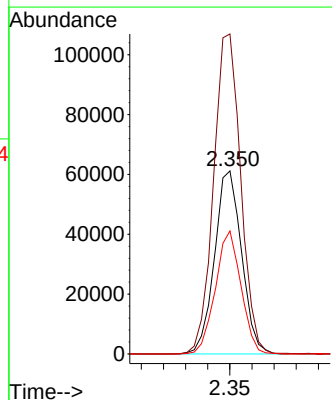
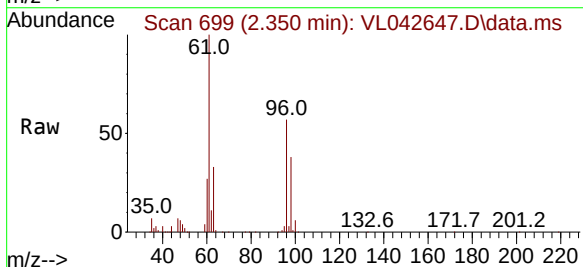
Manual Integrations
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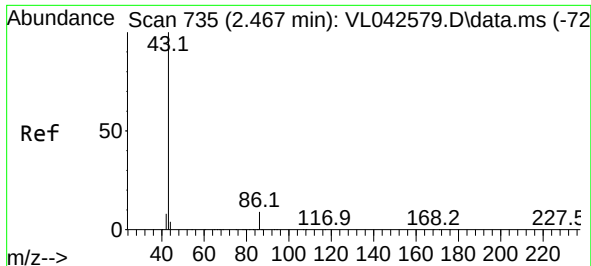
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



#22
 trans-1,2-Dichloroethene
 Concen: 10.572 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.006 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

Tgt Ion: 96 Resp: 51990
 Ion Ratio Lower Upper
 96 100
 61 174.7 142.6 214.0
 98 67.2 51.0 76.4





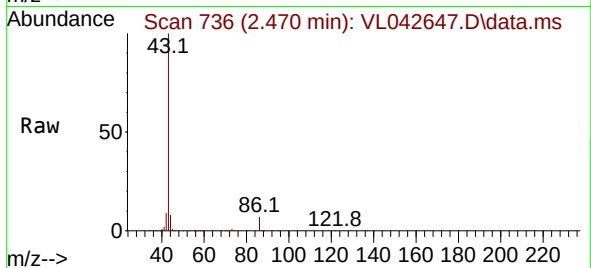
#23
 Vinyl Acetate
 Concen: 12.562 ppbv
 RT: 2.470 min Scan# 710
 Delta R.T. 0.003 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

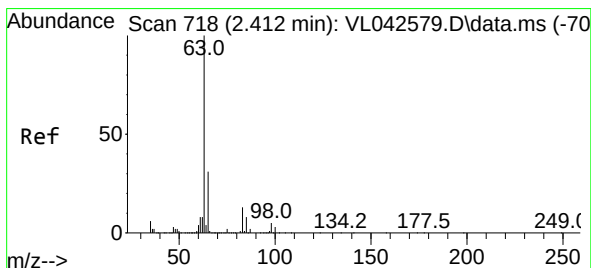
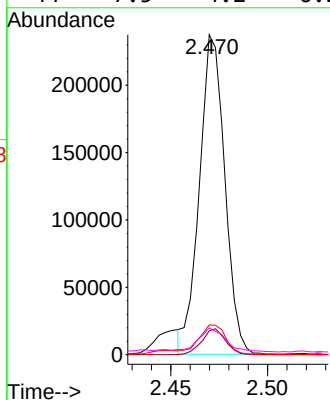
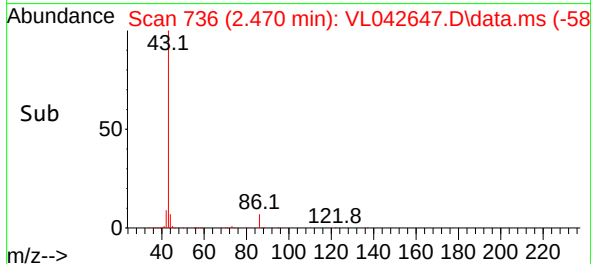


Tgt Ion: 43 Resp: 216348
 Ion Ratio Lower Upper
 43 100
 86 7.5 6.6 9.8
 42 9.2 7.0 10.4
 44 7.5 4.2 6.2#

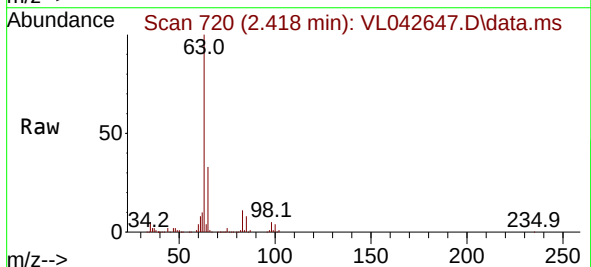
Manual Integrations

APPROVED

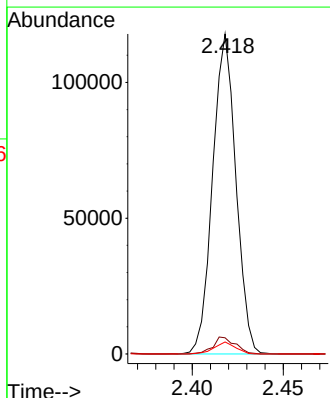
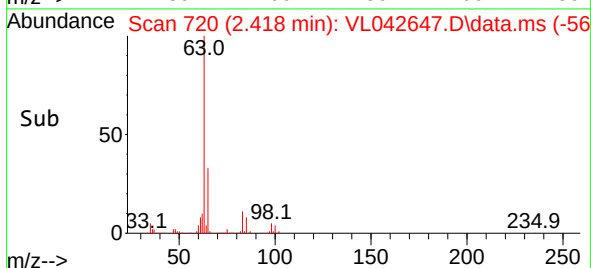
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

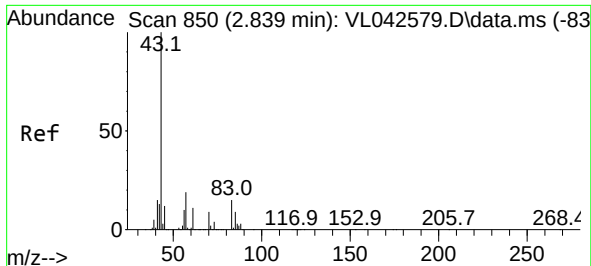


#24
 1,1-Dichloroethane
 Concen: 10.337 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.006 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56



Tgt Ion: 63 Resp: 104587
 Ion Ratio Lower Upper
 63 100
 98 5.0 2.4 7.1
 100 3.7 1.4 4.0





#25

Ethyl Acetate

Concen: 9.877 ppbv

RT: 2.845 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

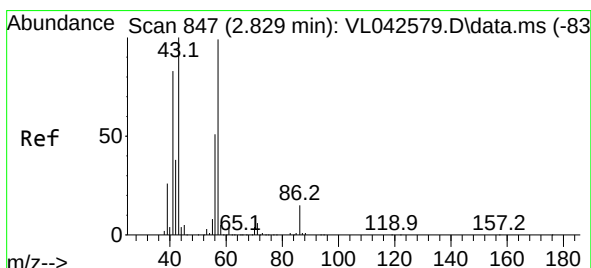
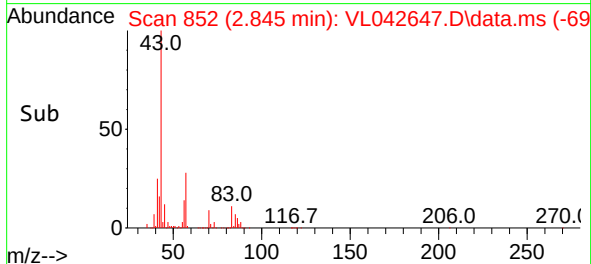
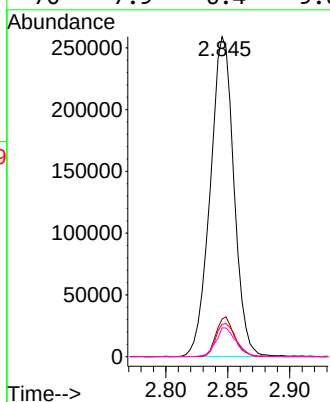
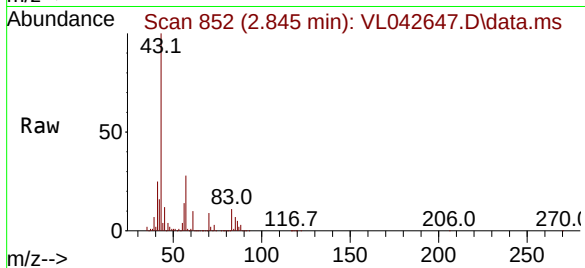
VSTDCCC010

Tgt Ion: 43	Resp: 344364
Ion Ratio	Lower Upper
43 100	
45 9.9	8.2 12.2
61 8.8	7.1 10.7
70 7.9	6.4 9.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#26

Hexane

Concen: 9.420 ppbv

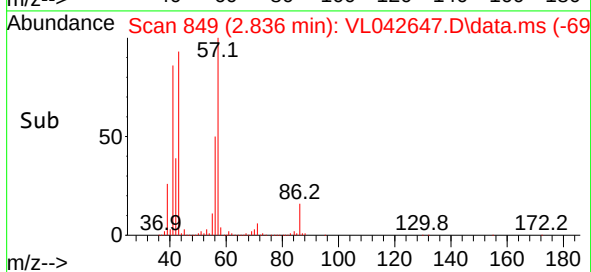
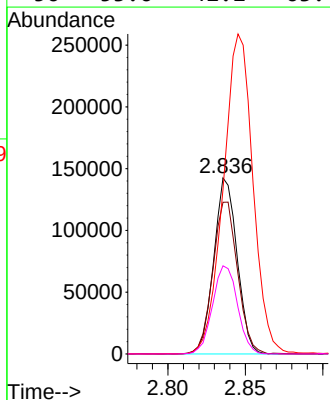
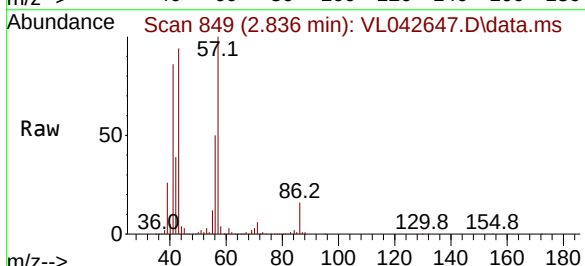
RT: 2.836 min Scan# 849

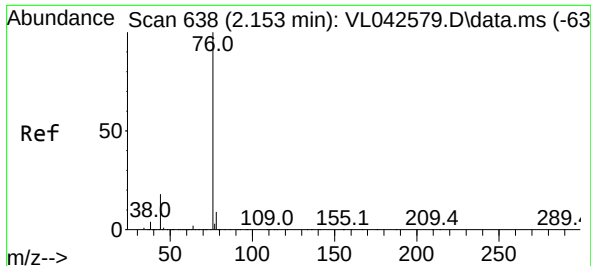
Delta R.T. 0.006 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

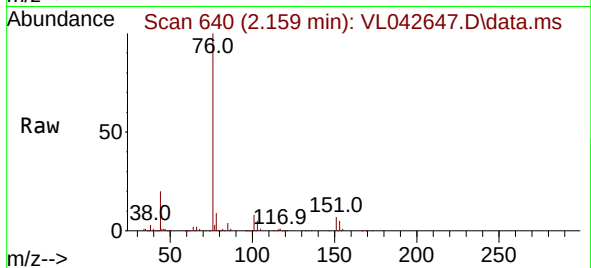
Tgt Ion: 57	Resp: 149241
Ion Ratio	Lower Upper
57 100	
41 92.5	70.6 106.0
43 231.6	181.1 271.7
56 53.6	42.2 63.4





#27
Carbon Disulfide
Concen: 10.694 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

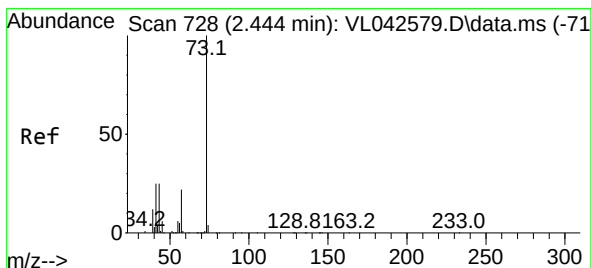
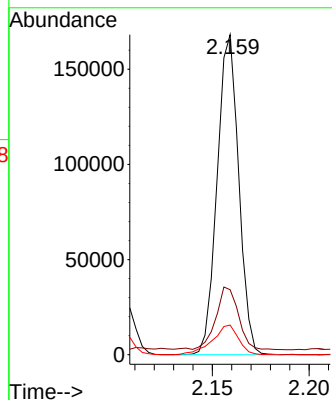
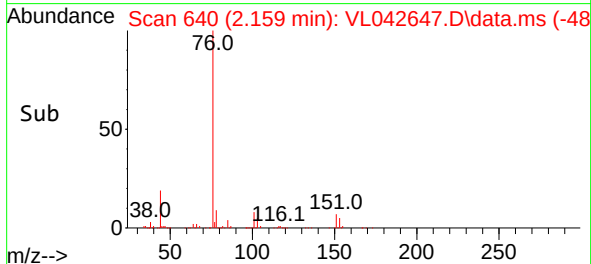
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



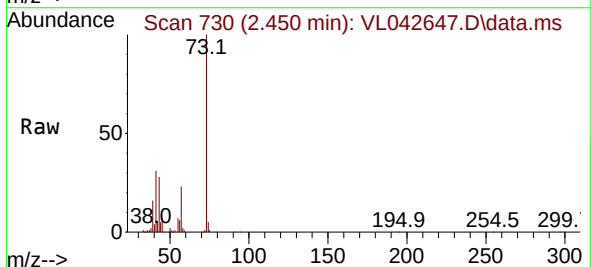
Tgt Ion: 76 Resp: 130069
Ion Ratio Lower Upper
76 100
44 21.8 21.3 31.9
78 11.2 9.4 14.0

Manual Integrations
APPROVED

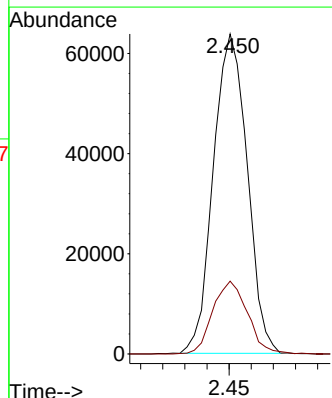
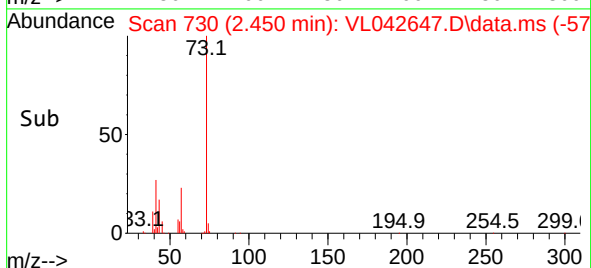
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

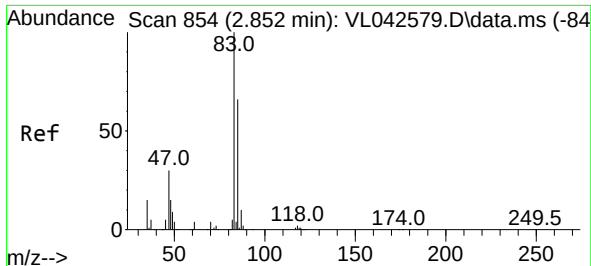


#28
Methyl tert-Butyl Ether
Concen: 10.562 ppbv
RT: 2.450 min Scan# 730
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56



Tgt Ion: 73 Resp: 67907
Ion Ratio Lower Upper
73 100
57 23.4 19.9 29.9





#29

Chloroform

Concen: 10.911 ppbv

RT: 2.858 min Scan# 856

Delta R.T. 0.006 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 83 Resp: 22480

Ion Ratio Lower Upper

83 100

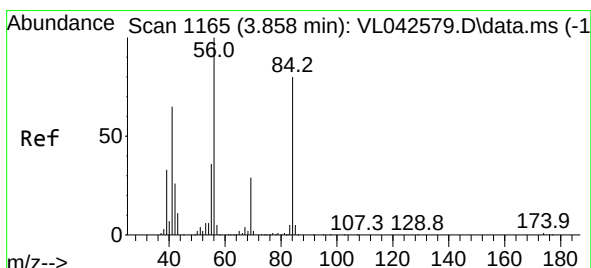
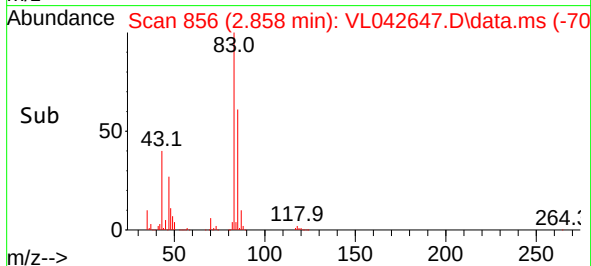
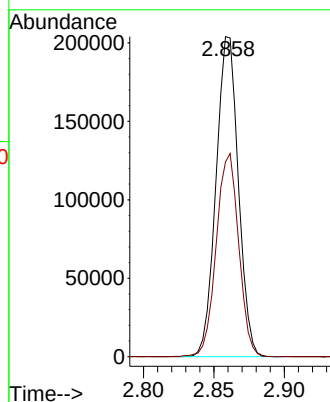
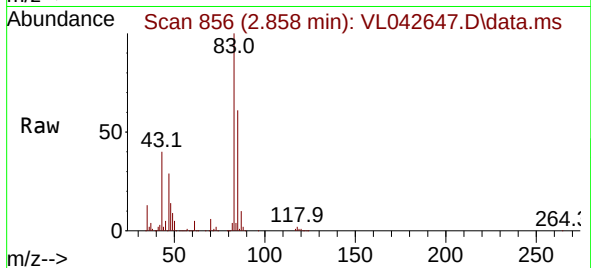
85 60.8 52.8 79.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#30

Cyclohexane

Concen: 8.988 ppbv

RT: 3.871 min Scan# 1169

Delta R.T. 0.013 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

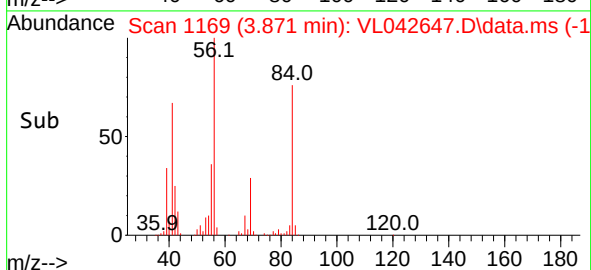
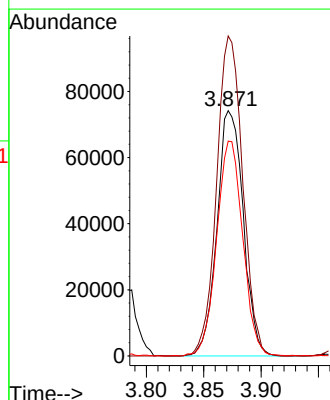
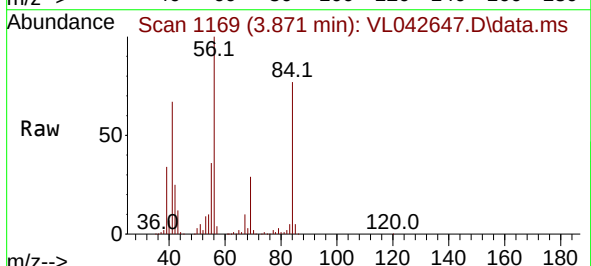
Tgt Ion: 84 Resp: 118051

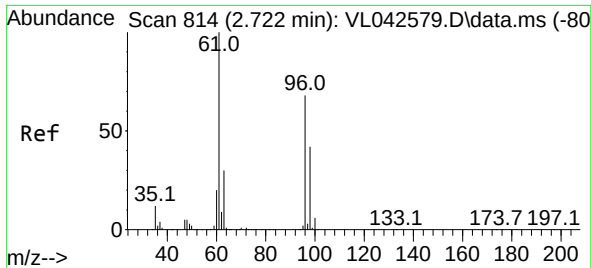
Ion Ratio Lower Upper

84 100

56 129.5 103.7 155.5

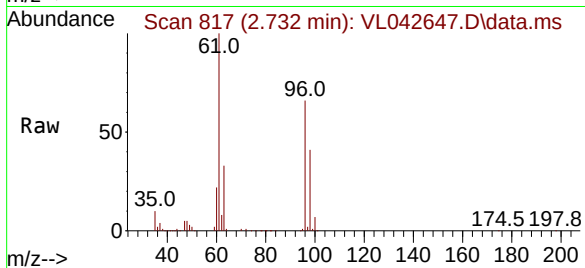
41 87.4 65.1 97.7





#31
 cis-1,2-Dichloroethene
 Concen: 9.850 ppbv
 RT: 2.732 min Scan# 814
 Delta R.T. 0.010 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

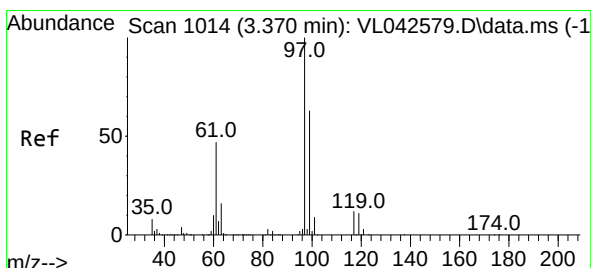
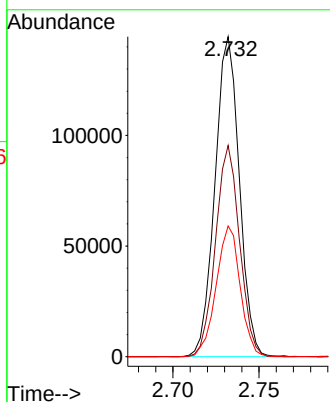
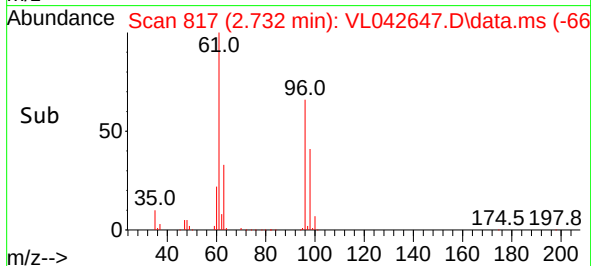
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



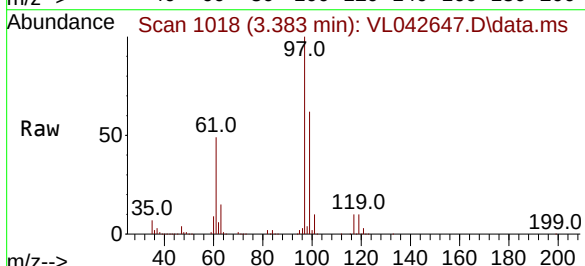
Tgt Ion: 61 Resp: 142740
 Ion Ratio Lower Upper
 61 100
 96 66.0 54.5 81.7
 98 40.8 33.4 50.2

Manual Integrations
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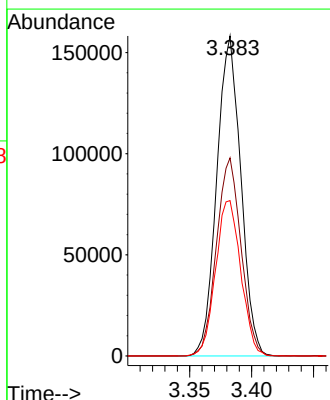
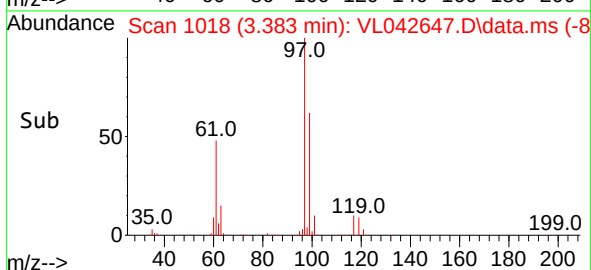
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

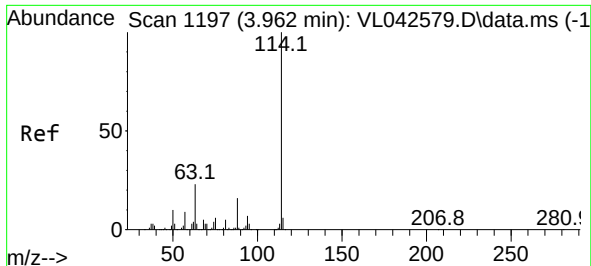


#32
 1,1,1-Trichloroethane
 Concen: 10.183 ppbv
 RT: 3.383 min Scan# 1018
 Delta R.T. 0.013 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56



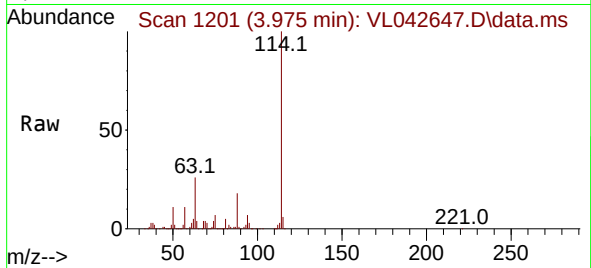
Tgt Ion: 97 Resp: 214355
 Ion Ratio Lower Upper
 97 100
 99 63.1 51.0 76.6
 61 50.9 39.4 59.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1197
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

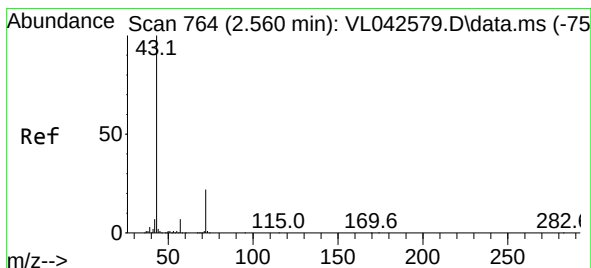
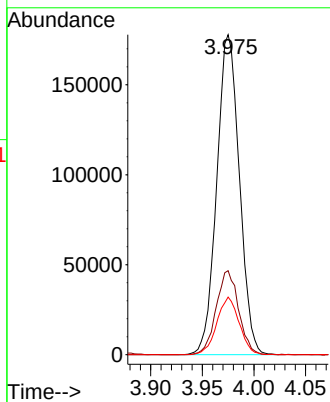
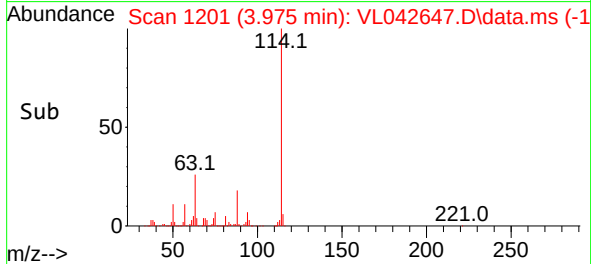
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



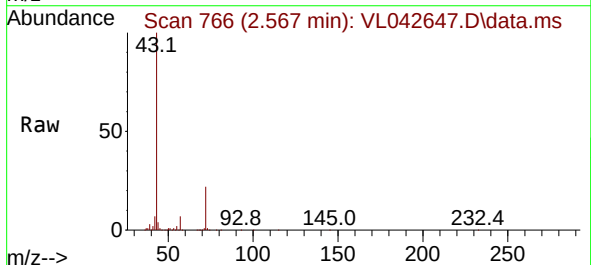
Tgt Ion:114 Resp: 271342
Ion Ratio Lower Upper
114 100
63 26.1 19.0 28.6
88 17.8 13.6 20.4

Manual Integrations
APPROVED

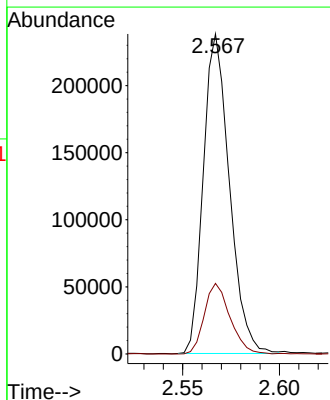
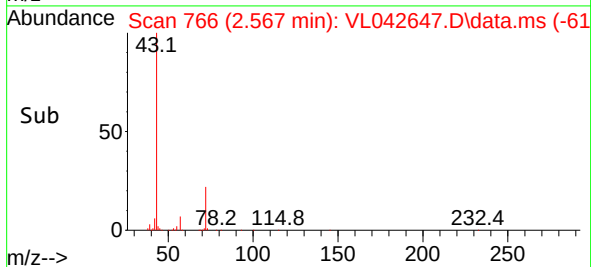
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

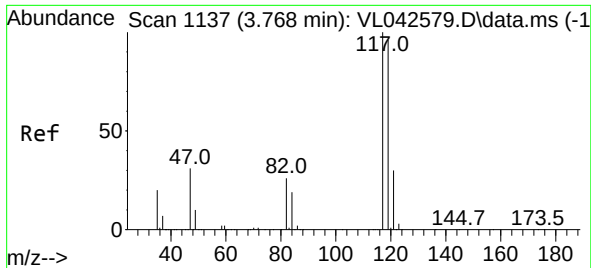


#34
2-Butanone
Concen: 11.541 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.007 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56



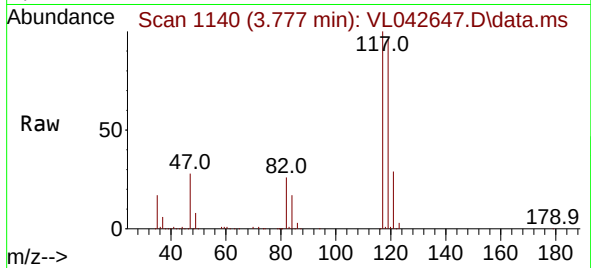
Tgt Ion: 43 Resp: 223326
Ion Ratio Lower Upper
43 100
72 21.8 17.7 26.5





#35
Carbon Tetrachloride
Concen: 12.020 ppbv
RT: 3.777 min Scan# 1137
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

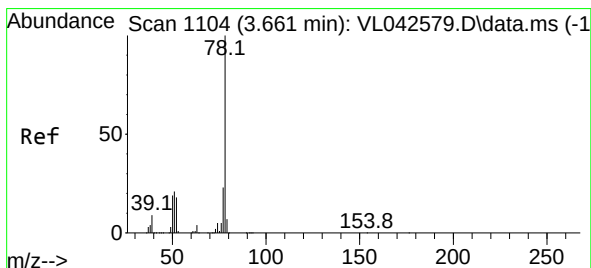
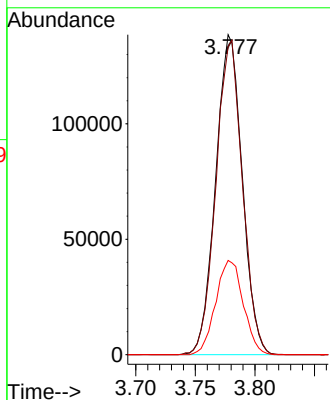
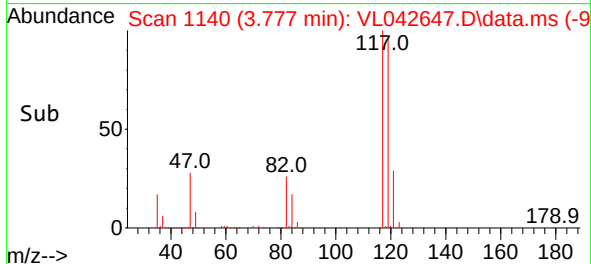
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



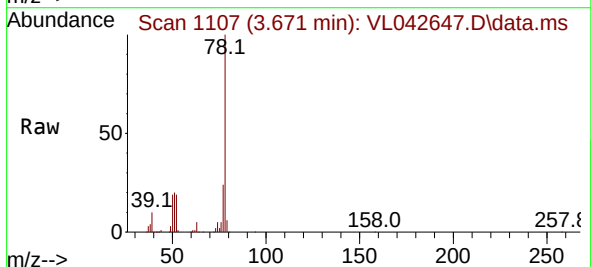
Tgt Ion:117 Resp: 215300
Ion Ratio Lower Upper
117 100
119 96.3 76.8 115.2
121 29.5 24.3 36.5

Manual Integrations
APPROVED

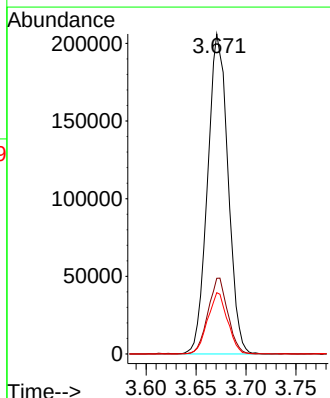
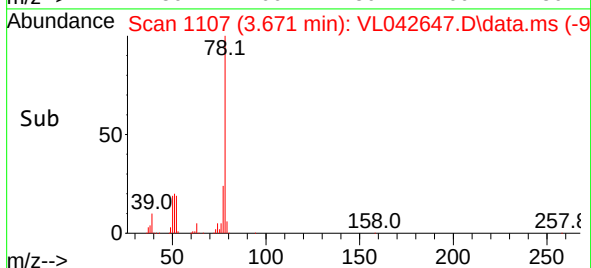
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

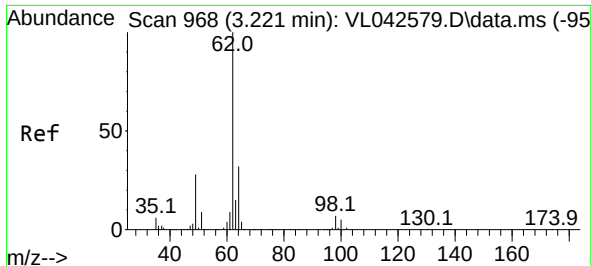


#36
Benzene
Concen: 10.989 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56



Tgt Ion: 78 Resp: 293622
Ion Ratio Lower Upper
78 100
77 23.6 18.2 27.2
50 19.1 15.2 22.8





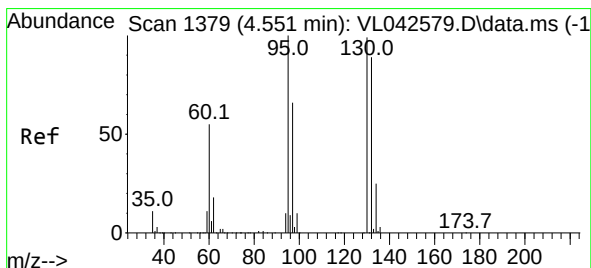
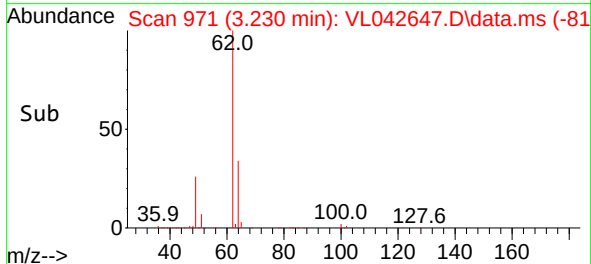
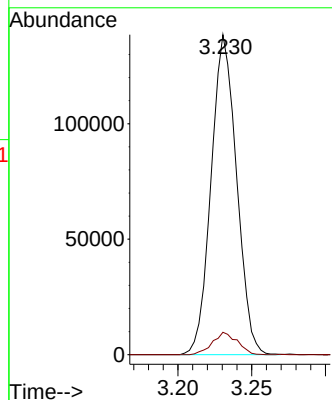
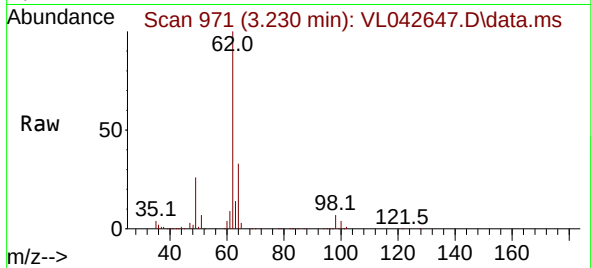
#37
1,2-Dichloroethane
Concen: 12.538 ppbv
RT: 3.230 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 16650
Ion Ratio Lower Upper
62 100
98 6.8 6.1 9.1

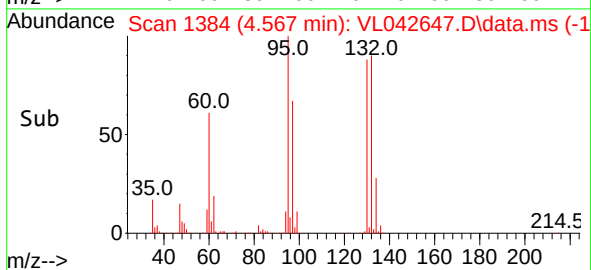
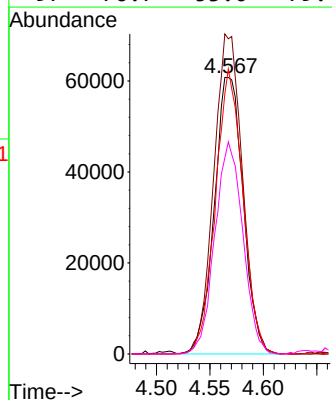
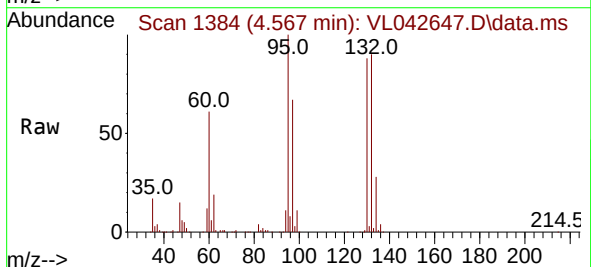
Manual Integrations
APPROVED

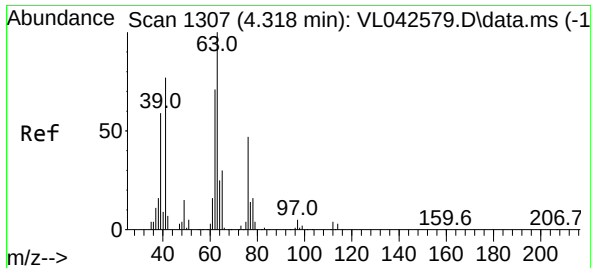
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#38
Trichloroethene
Concen: 10.079 ppbv
RT: 4.567 min Scan# 1384
Delta R.T. 0.016 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion:130 Resp: 114475
Ion Ratio Lower Upper
130 100
95 114.0 80.6 121.0
132 102.9 71.8 107.6
97 76.7 53.0 79.4





#39

1,2-Dichloropropane

Concen: 11.132 ppbv

RT: 4.334 min Scan# 1312

Delta R.T. 0.016 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

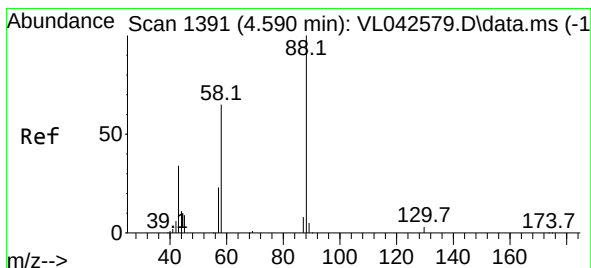
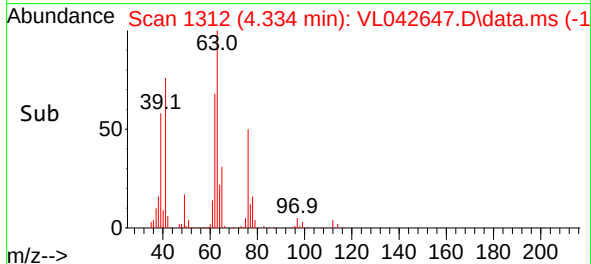
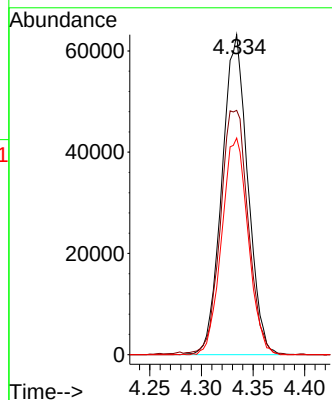
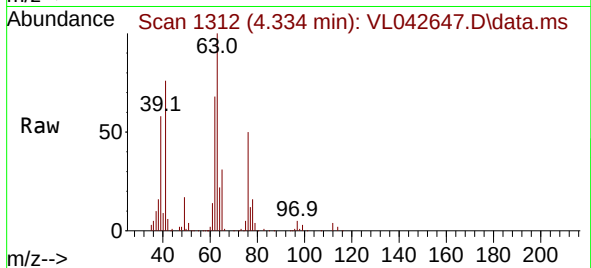
Tgt Ion: 63 Resp: 109999

Ion	Ratio	Lower	Upper
63	100		
41	75.9	61.8	92.6
62	67.7	56.6	85.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#40

1,4-Dioxane

Concen: 10.484 ppbv

RT: 4.600 min Scan# 1394

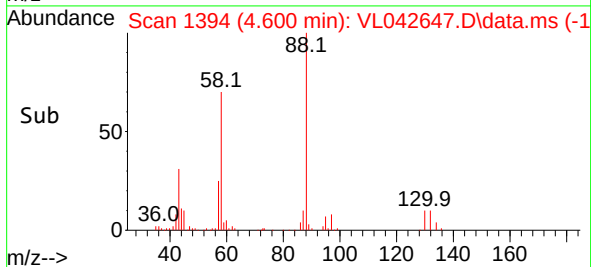
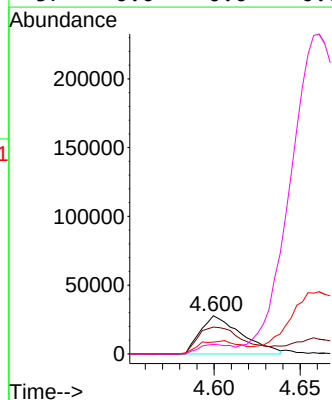
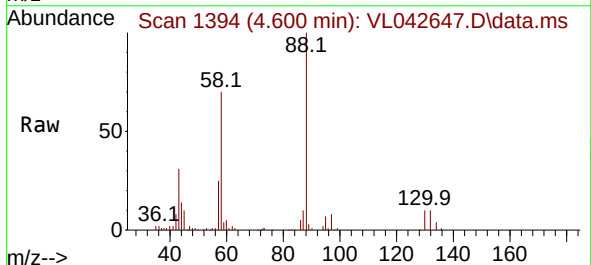
Delta R.T. 0.010 min

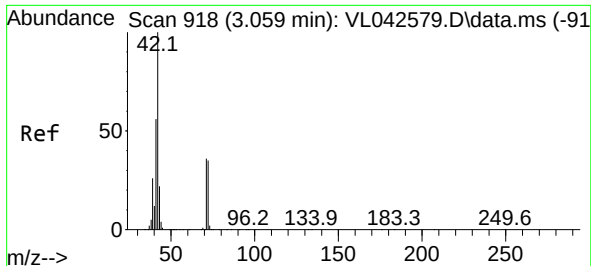
Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Tgt Ion: 88 Resp: 46358

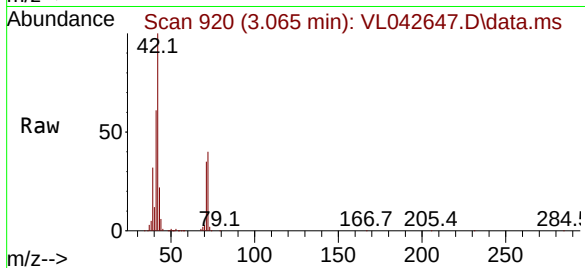
Ion	Ratio	Lower	Upper
88	100		
58	82.3	55.8	83.8
43	34.5	24.8	37.2
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 10.561 ppbv
RT: 3.065 min Scan# 918
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

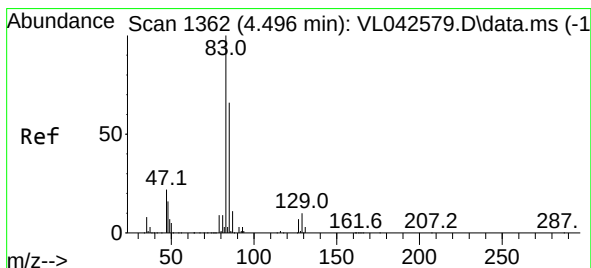
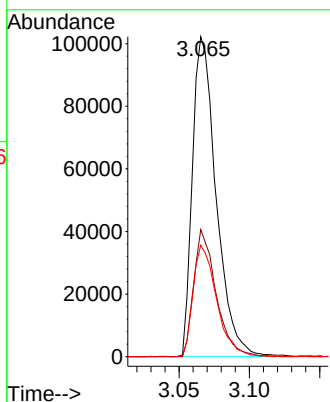
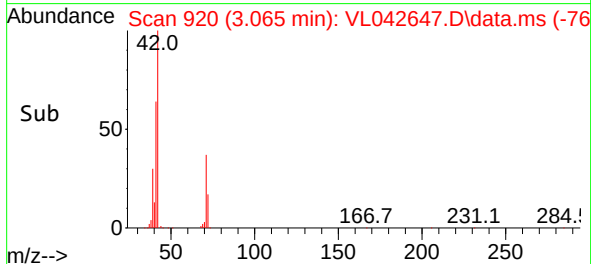
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



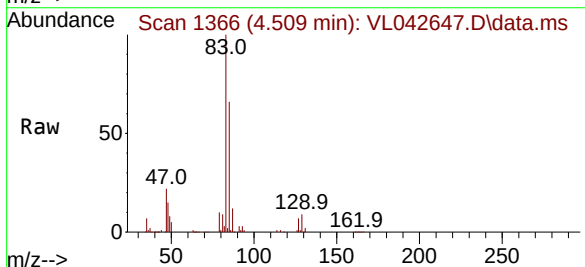
Tgt Ion: 42 Resp: 119620
Ion Ratio Lower Upper
42 100
72 37.5 28.9 43.3
71 34.5 28.5 42.7

Manual Integrations
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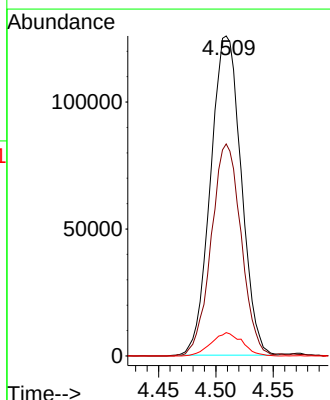
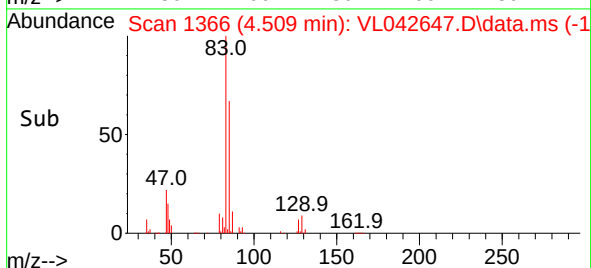
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

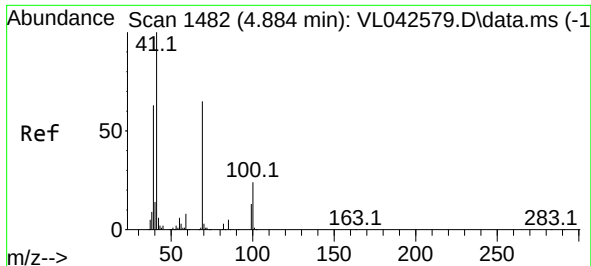


#42
Bromodichloromethane
Concen: 12.378 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56



Tgt Ion: 83 Resp: 233466
Ion Ratio Lower Upper
83 100
85 66.0 52.7 79.1
127 7.3 5.8 8.6





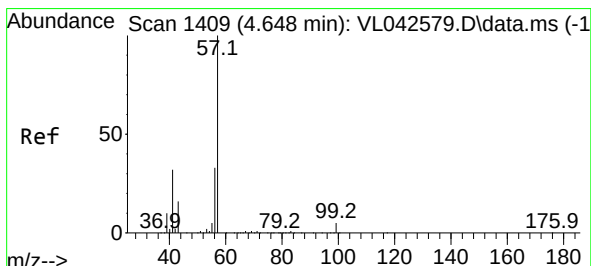
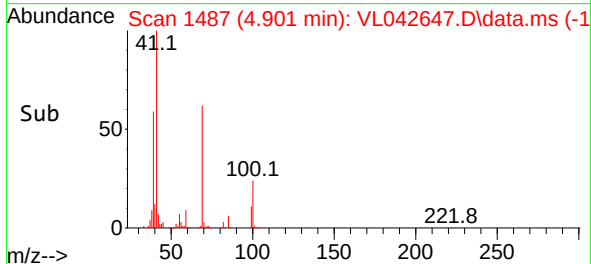
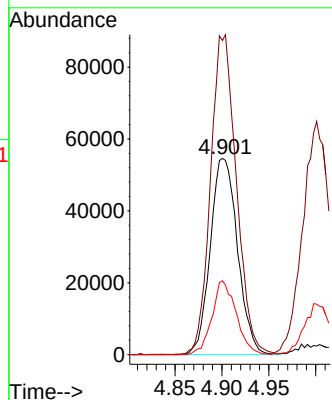
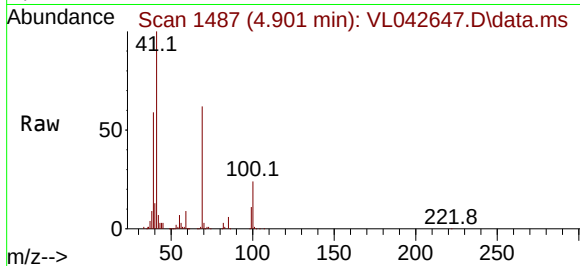
#43
Methyl Methacrylate
Concen: 10.611 ppbv
RT: 4.901 min Scan# 1482
Delta R.T. 0.016 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 11004
Ion Ratio Lower Upper
69 100
41 155.0 124.6 187.0
100 33.6 29.9 44.9

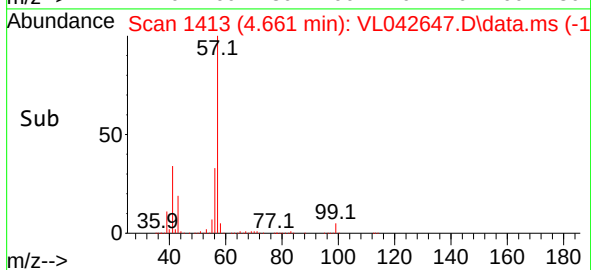
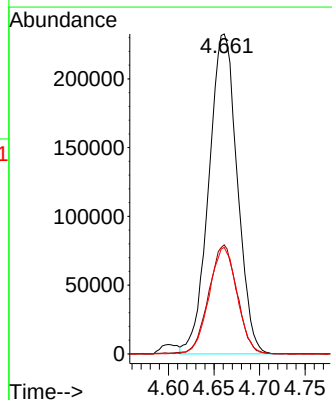
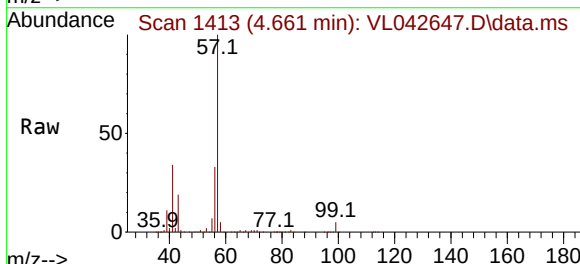
Manual Integrations
APPROVED

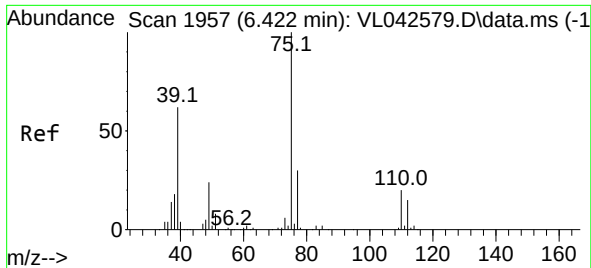
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#44
2,2,4-Trimethylpentane
Concen: 11.047 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

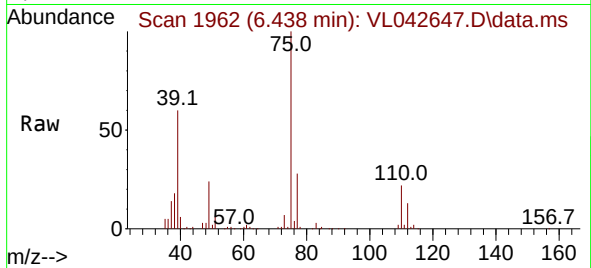
Tgt Ion: 57 Resp: 504893
Ion Ratio Lower Upper
57 100
41 34.2 26.1 39.1
56 33.0 25.9 38.9





#45
 t-1,3-Dichloropropene
 Concen: 10.611 ppbv
 RT: 6.438 min Scan# 1957
 Delta R.T. 0.016 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

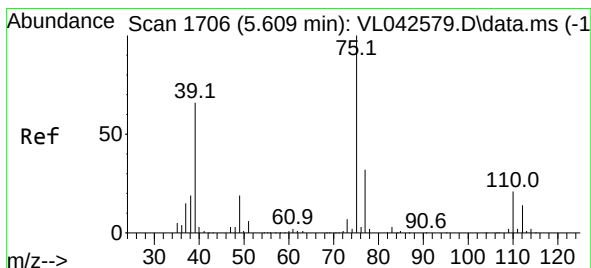
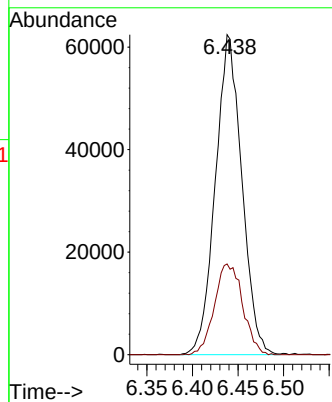
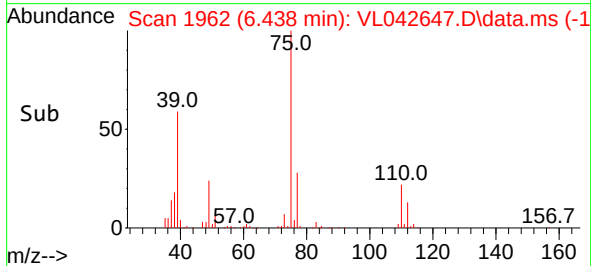
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 75 Resp: 125932
 Ion Ratio Lower Upper
 75 100
 77 28.3 24.2 36.2

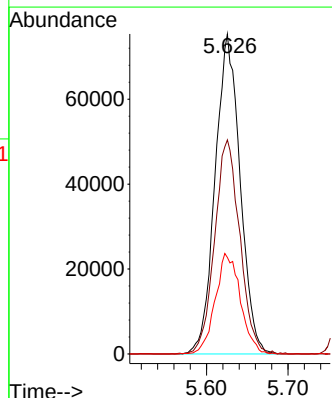
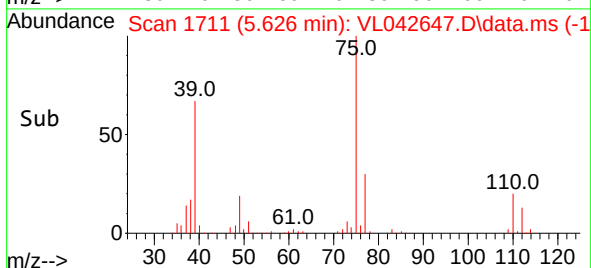
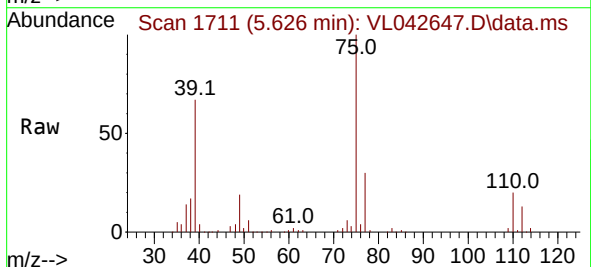
Manual Integrations
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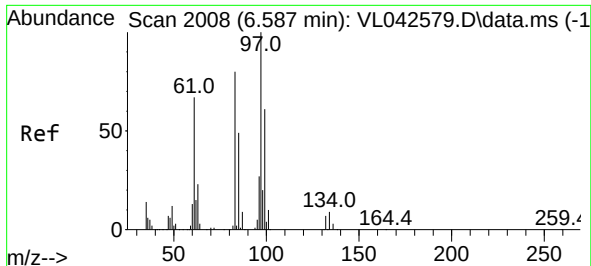
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



#46
 cis-1,3-Dichloropropene
 Concen: 10.789 ppbv
 RT: 5.626 min Scan# 1711
 Delta R.T. 0.016 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

Tgt Ion: 75 Resp: 160436
 Ion Ratio Lower Upper
 75 100
 39 66.7 52.7 79.1
 77 30.1 25.8 38.8





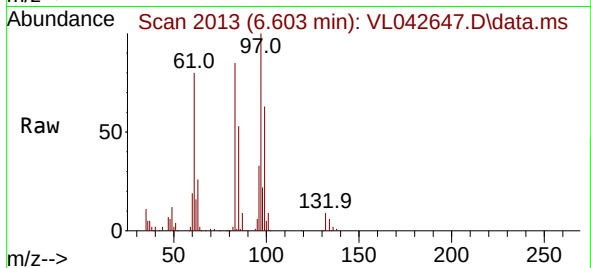
#47
1,1,2-Trichloroethane
Concen: 11.274 ppbv
RT: 6.603 min Scan# 2008
Delta R.T. 0.016 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

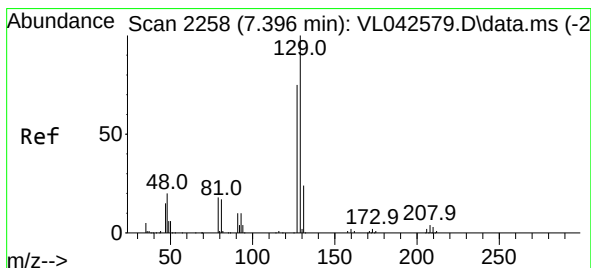
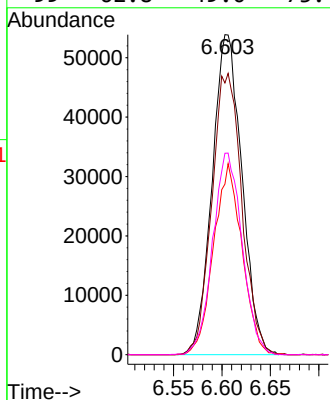
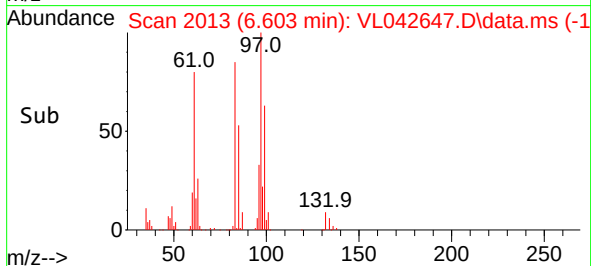


Tgt Ion: 97 Resp: 115320
Ion Ratio Lower Upper
97 100
83 84.8 63.9 95.9
85 53.2 39.2 58.8
99 62.8 49.0 73.4

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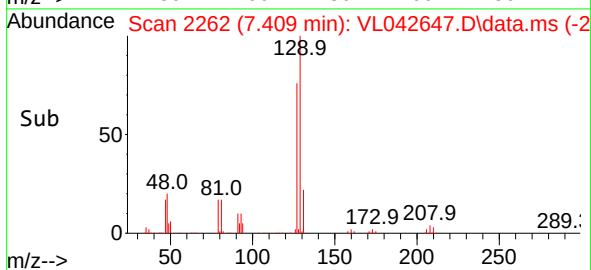
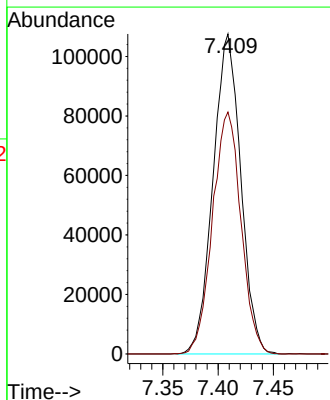
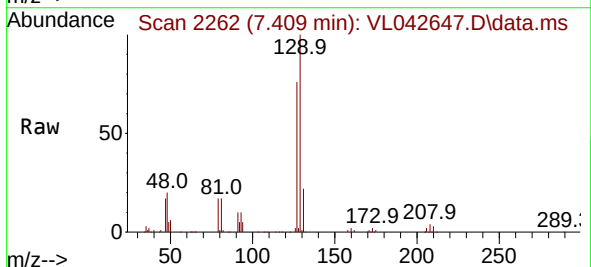
APPROVED

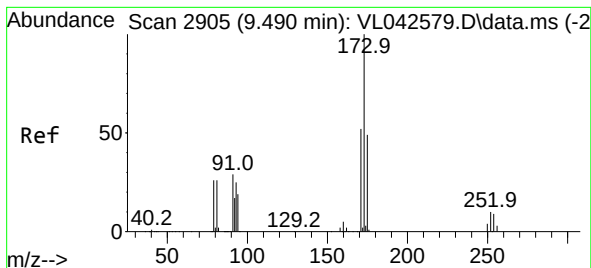
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#48
Dibromochloromethane
Concen: 11.424 ppbv
RT: 7.409 min Scan# 2262
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion:129 Resp: 187063
Ion Ratio Lower Upper
129 100
127 77.7 39.0 116.9





#49

Bromoform

Concen: 11.897 ppbv

RT: 9.500 min Scan# 2905

Delta R.T. 0.010 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

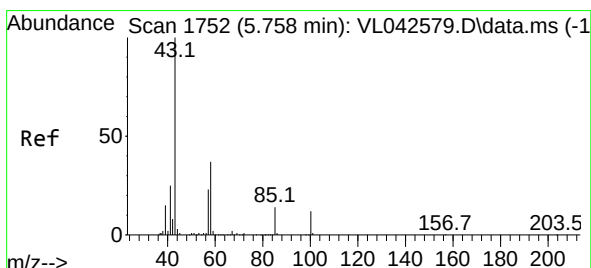
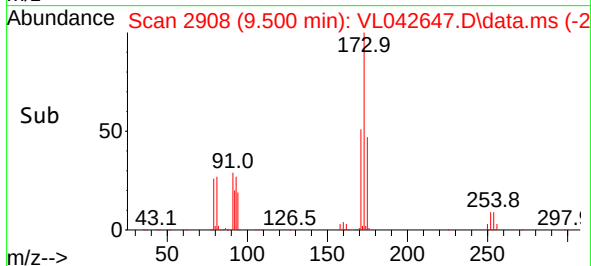
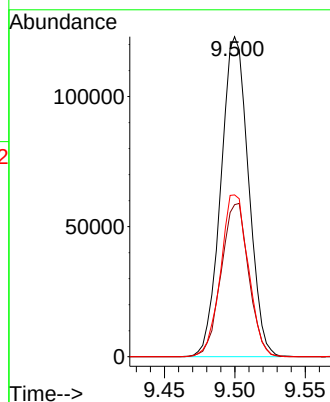
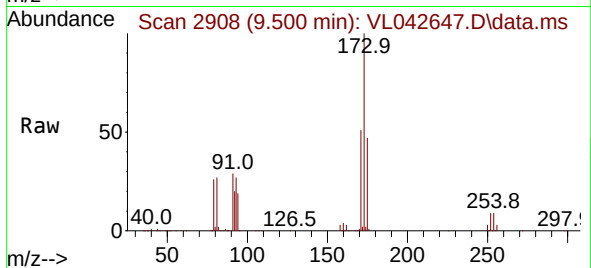
VSTDCCC010

Tgt Ion:173 Resp: 168088
 Ion Ratio Lower Upper
 173 100
 175 47.8 38.7 58.1
 171 50.6 41.2 61.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



#50

4-Methyl-2-Pentanone

Concen: 11.136 ppbv

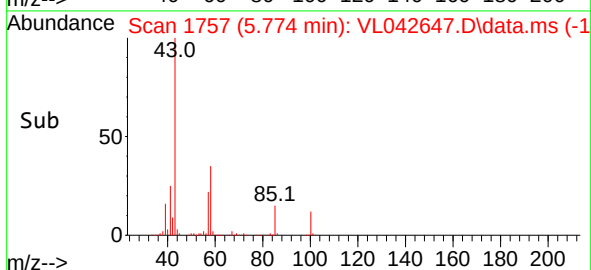
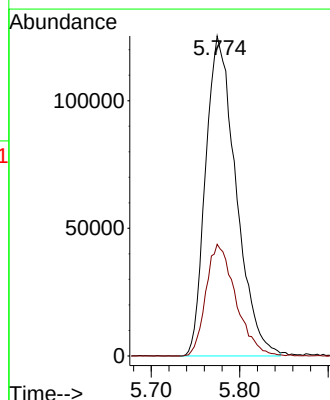
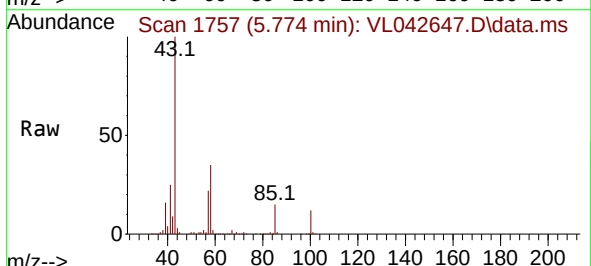
RT: 5.774 min Scan# 1757

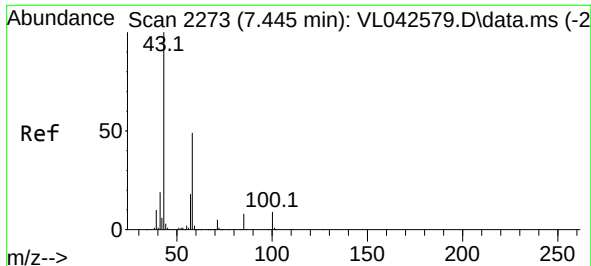
Delta R.T. 0.016 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

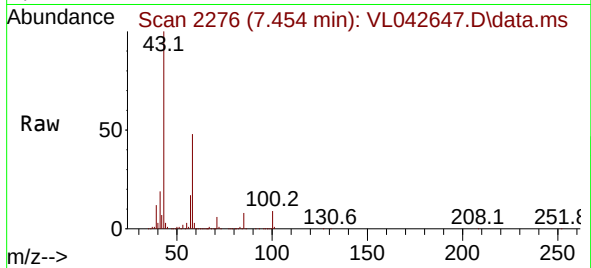
Tgt Ion: 43 Resp: 298895
 Ion Ratio Lower Upper
 43 100
 58 34.3 28.3 42.5





#51
2-Hexanone
Concen: 11.175 ppbv
RT: 7.454 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

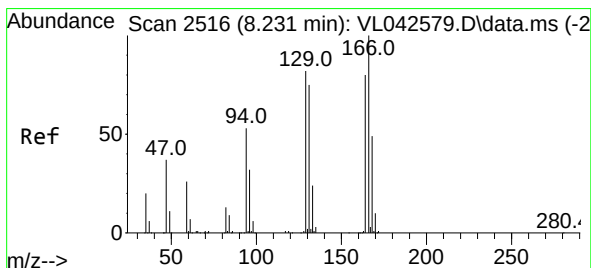
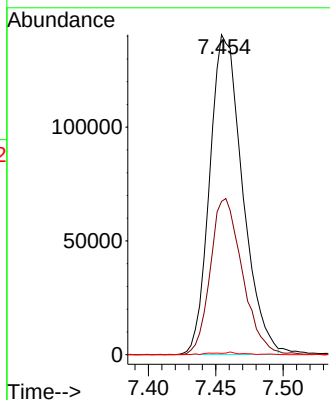
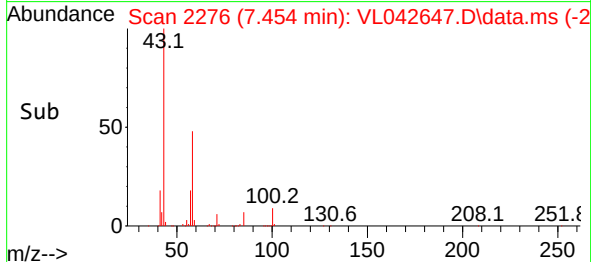
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 43 Resp: 237889
Ion Ratio Lower Upper
43 100
58 48.0 39.9 59.9
98 0.8 0.1 0.1

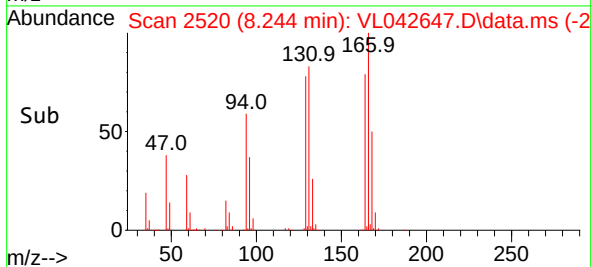
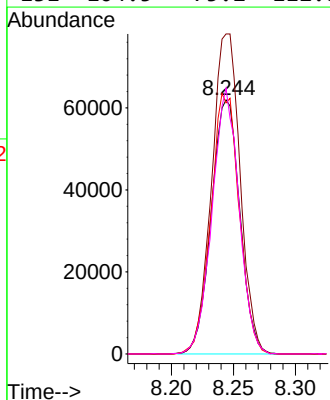
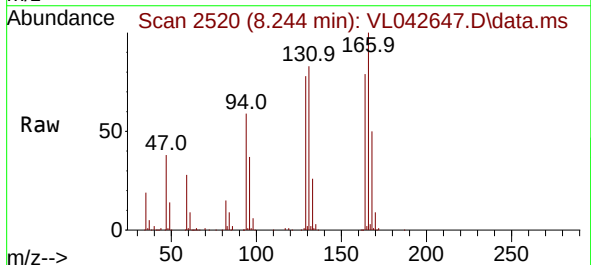
Manual Integrations
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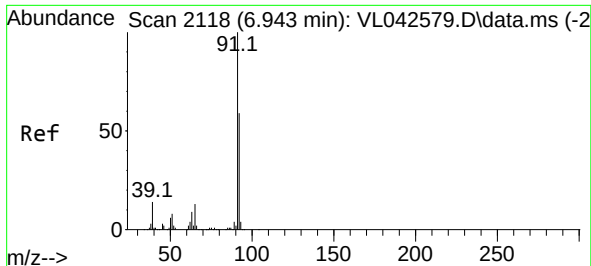
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#52
Tetrachloroethene
Concen: 9.974 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

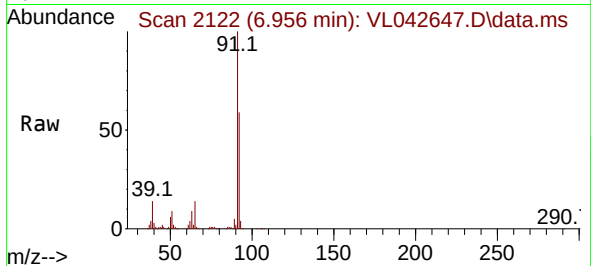
Tgt Ion:164 Resp: 99591
Ion Ratio Lower Upper
164 100
166 125.9 100.0 150.0
129 98.8 82.2 123.4
131 104.5 75.2 112.8





#53
Toluene
Concen: 10.354 ppbv
RT: 6.956 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

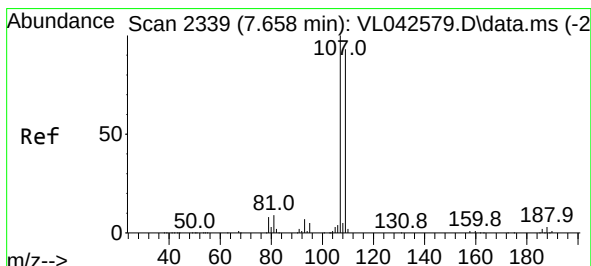
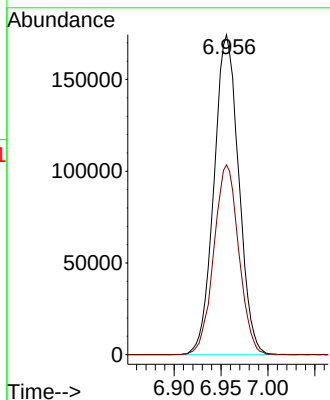
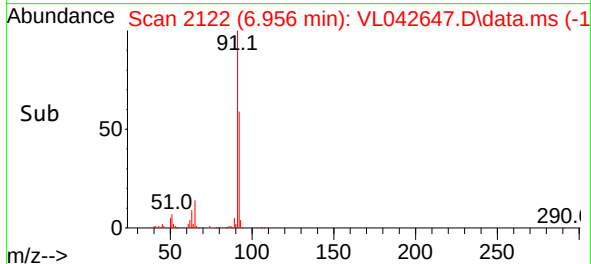
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



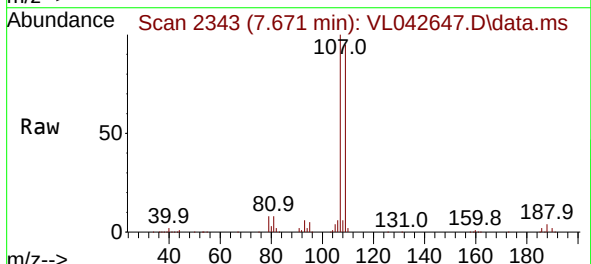
Tgt Ion: 91 Resp: 31975
Ion Ratio Lower Upper
91 100
92 59.9 48.2 72.4

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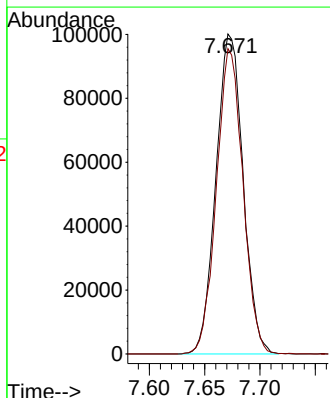
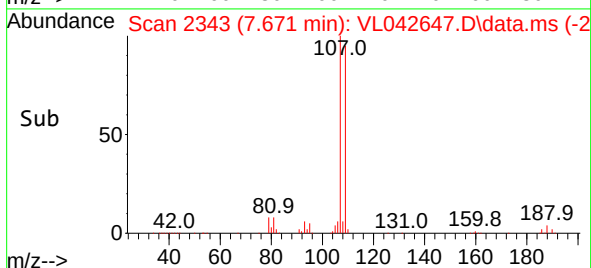
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

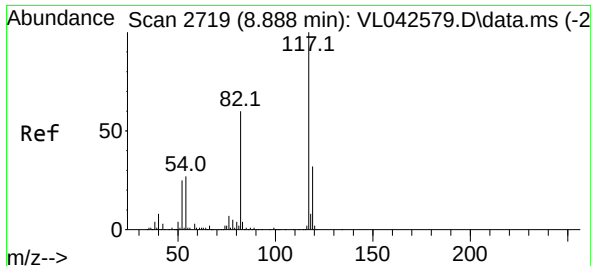


#54
1,2-Dibromoethane
Concen: 11.282 ppbv
RT: 7.671 min Scan# 2343
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56



Tgt Ion:107 Resp: 170816
Ion Ratio Lower Upper
107 100
109 95.4 74.3 111.5





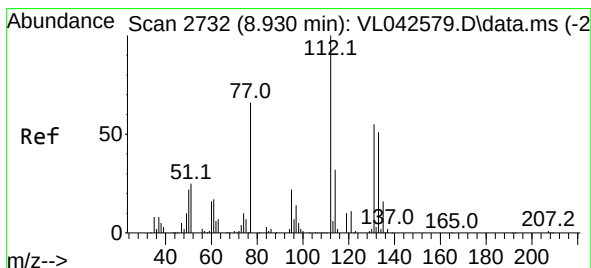
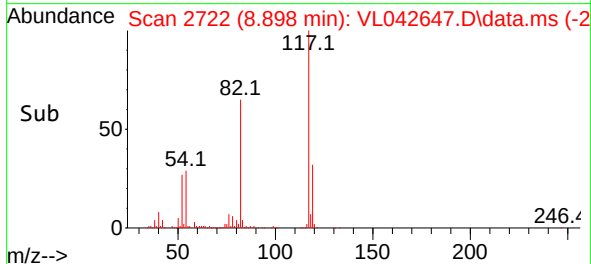
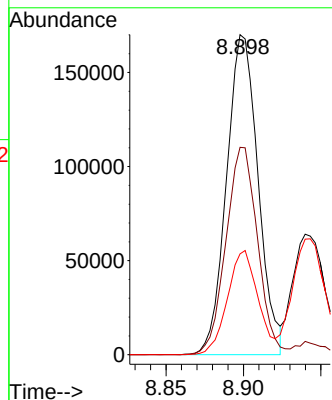
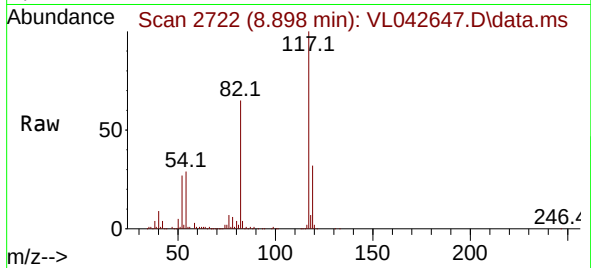
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2719
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 241435
Ion Ratio Lower Upper
117 100
82 68.5 51.2 76.8
119 31.6 26.3 39.5

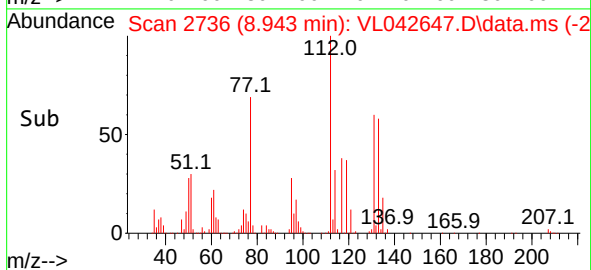
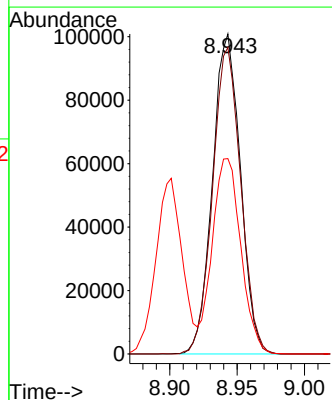
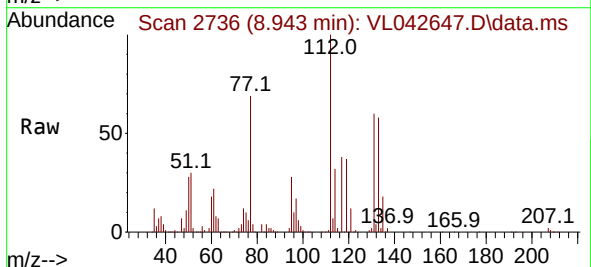
Manual Integrations
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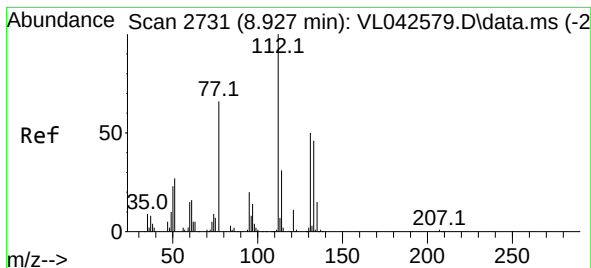
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 11.959 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion:131 Resp: 145178
Ion Ratio Lower Upper
131 100
133 96.9 75.0 112.6
119 61.2 50.8 76.2





#57

Chlorobenzene

Concen: 11.034 ppbv

RT: 8.940 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

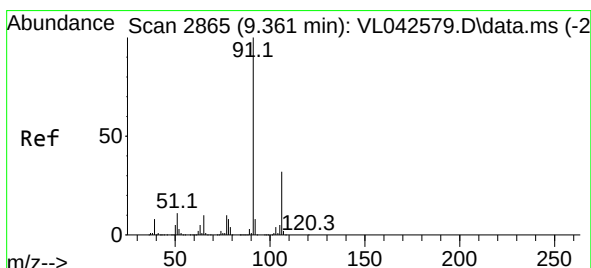
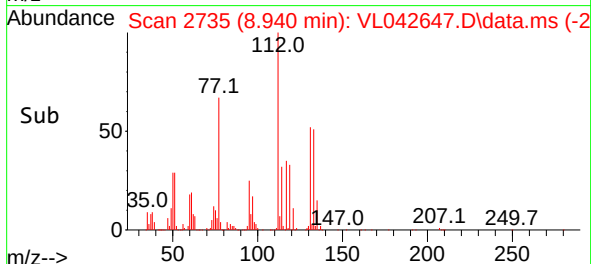
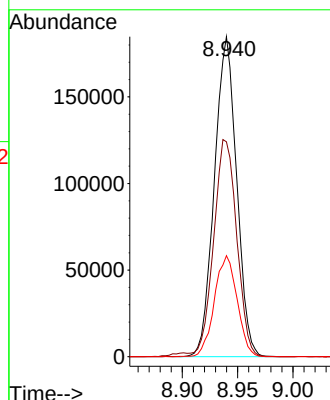
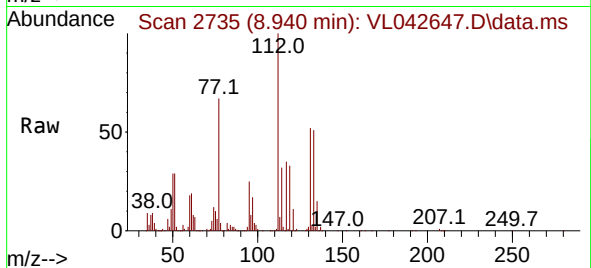
VSTDCCC010

Tgt Ion:	112	Resp:	25868
Ion Ratio	Lower	Upper	
112	100		
77	67.1	53.5	80.3
114	31.6	27.8	34.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#58

Ethyl Benzene

Concen: 11.070 ppbv

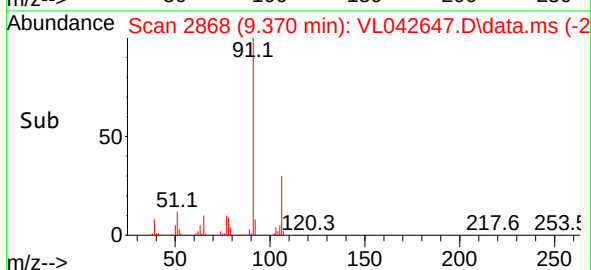
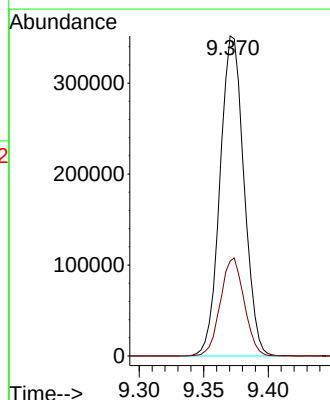
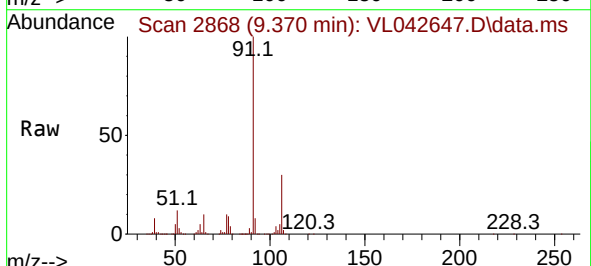
RT: 9.370 min Scan# 2868

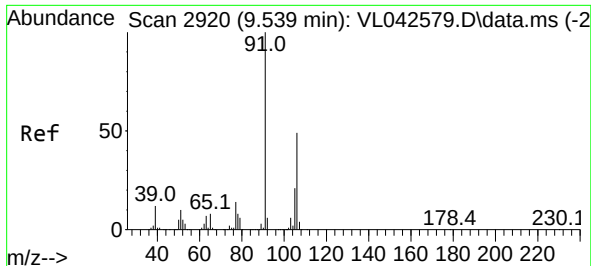
Delta R.T. 0.010 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

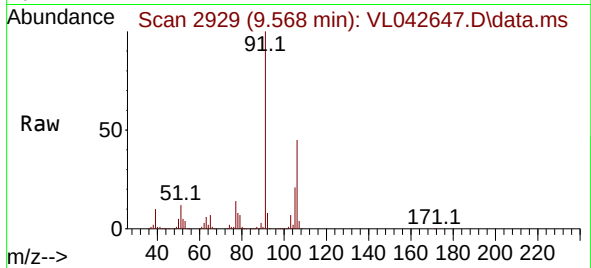
Tgt Ion:	91	Resp:	453357
Ion Ratio	Lower	Upper	
91	100		
106	29.7	25.9	38.9





#59
m/p-Xylene
Concen: 23.676 ppbv m
RT: 9.568 min Scan# 2920
Delta R.T. 0.029 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

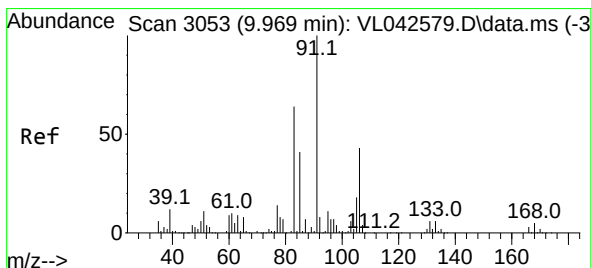
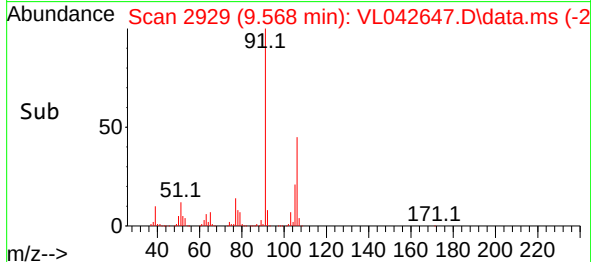
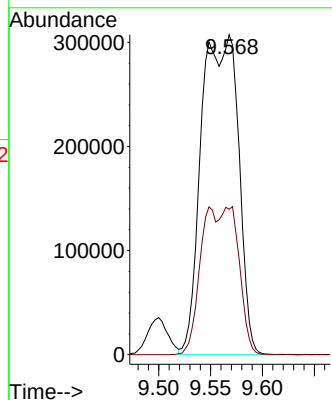
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 91 Resp: 763052
Ion Ratio Lower Upper
91 100
106 0.0 38.8 58.2

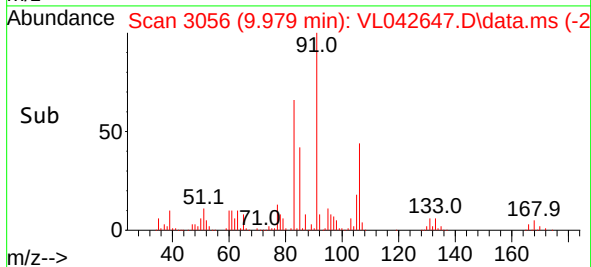
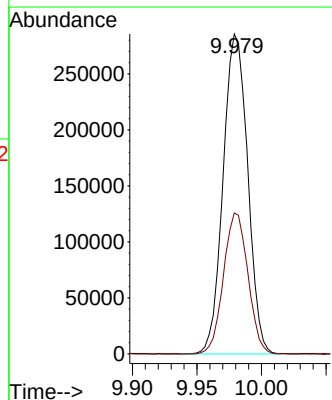
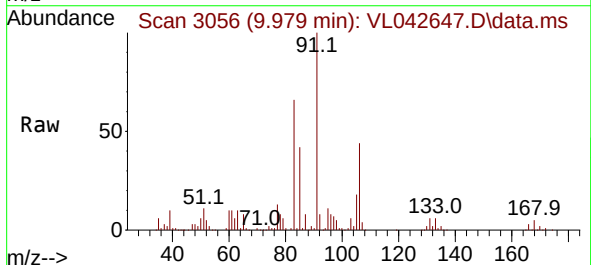
Manual Integrations
APPROVED

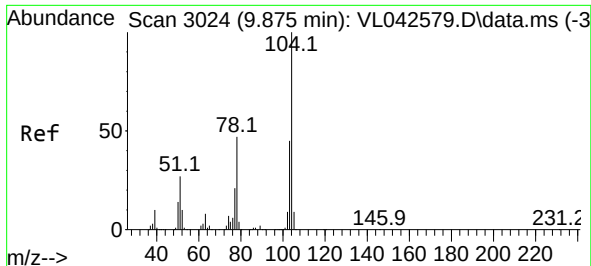
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#60
o-Xylene
Concen: 11.756 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

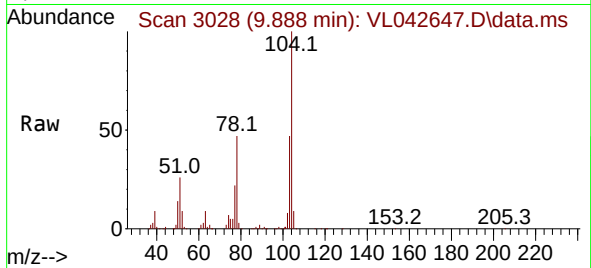
Tgt Ion: 91 Resp: 377860
Ion Ratio Lower Upper
91 100
106 43.9 22.9 68.5





#61
Styrene
Concen: 10.422 ppbv
RT: 9.888 min Scan# 3024
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

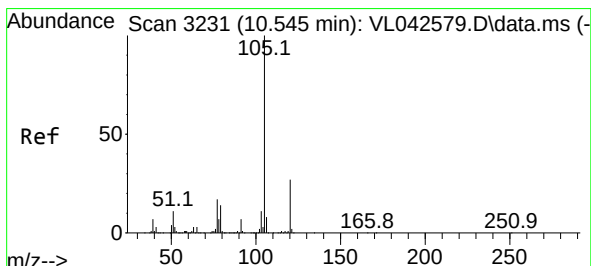
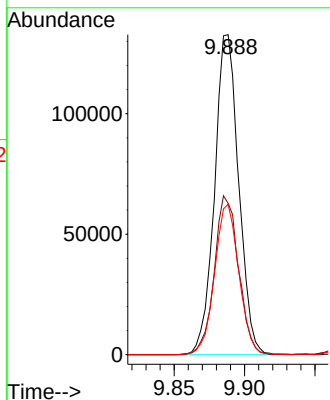
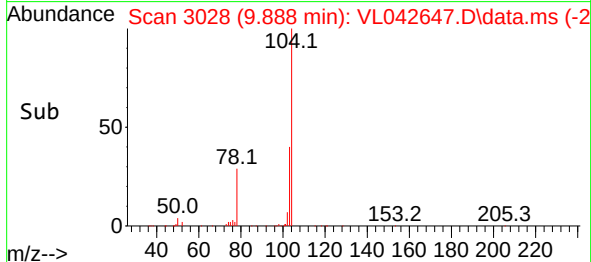
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



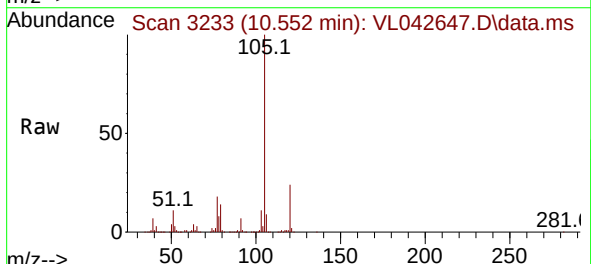
Tgt Ion:104 Resp: 15838
Ion Ratio Lower Upper
104 100
78 49.9 38.2 57.4
103 47.4 36.7 55.1

Manual Integrations
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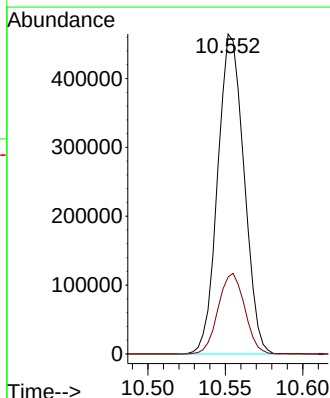
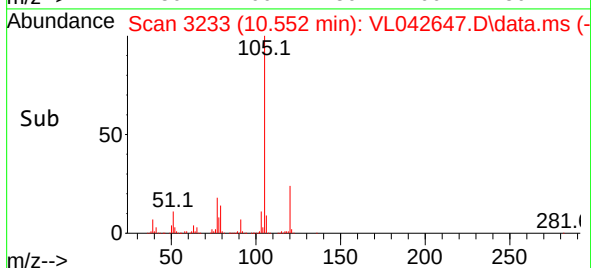
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

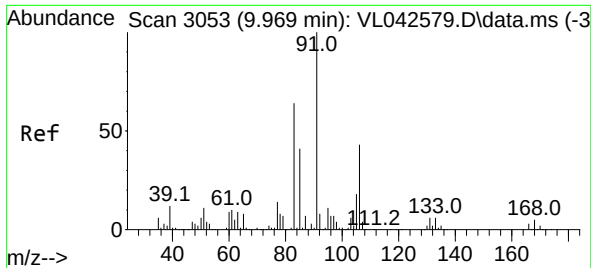


#62
Isopropylbenzene
Concen: 11.551 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. 0.007 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56



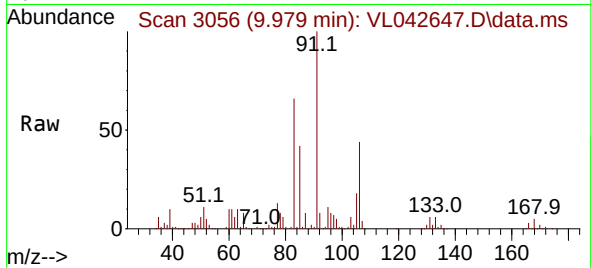
Tgt Ion:105 Resp: 548530
Ion Ratio Lower Upper
105 100
120 25.4 20.9 31.3





#63
1,1,2,2-Tetrachloroethane
Concen: 12.106 ppbv
RT: 9.979 min Scan# 3053
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

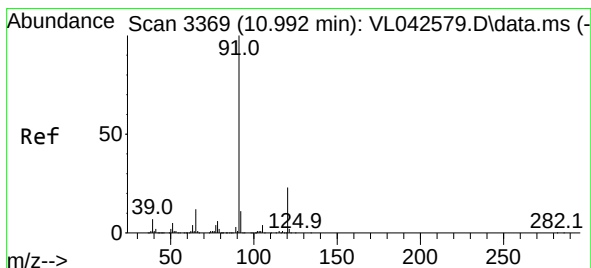
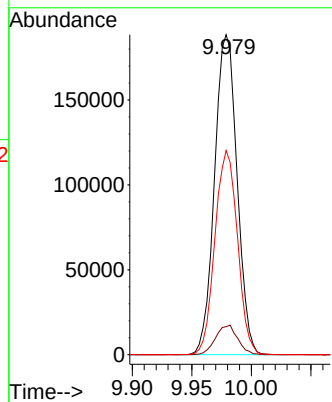
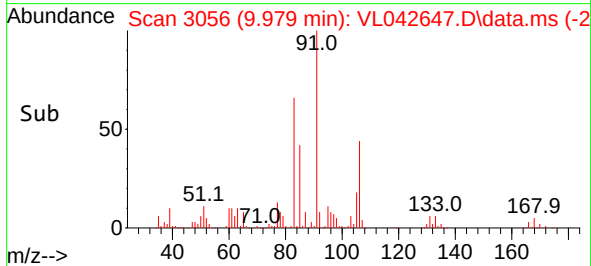
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



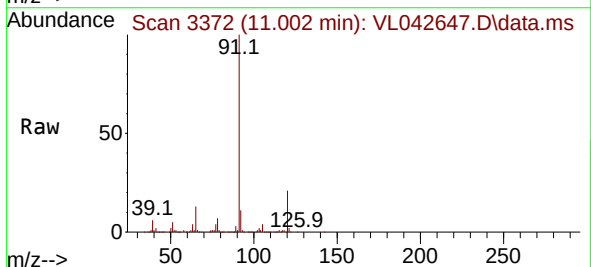
Tgt Ion: 83 Resp: 247429
Ion Ratio Lower Upper
83 100
131 9.1 4.8 14.4
85 63.9 32.5 97.4

Manual Integrations
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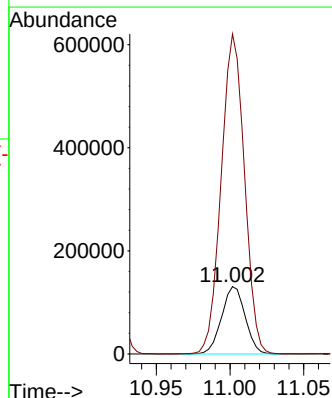
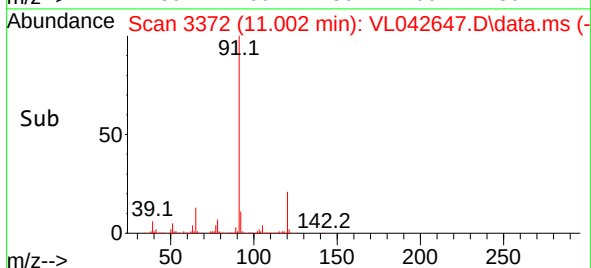
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

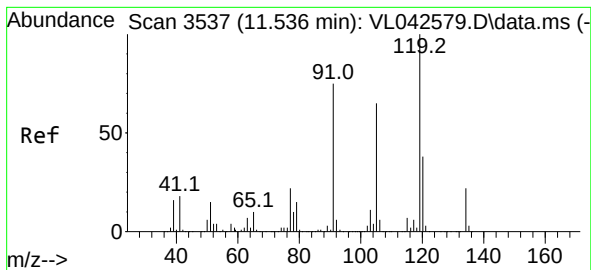


#64
n-propylbenzene
Concen: 11.407 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56



Tgt Ion:120 Resp: 145207
Ion Ratio Lower Upper
120 100
91 469.9 363.0 544.6





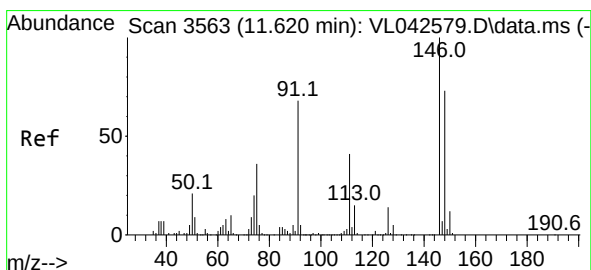
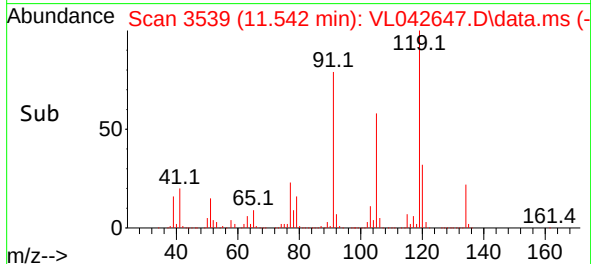
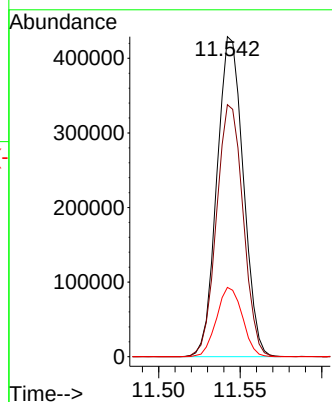
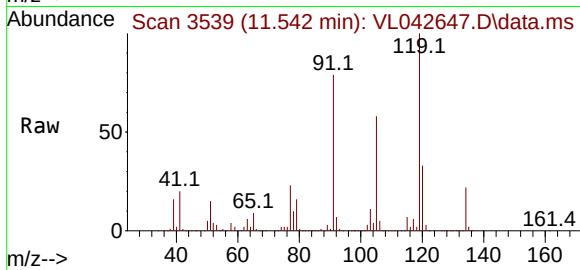
#65
tert-Butylbenzene
Concen: 11.202 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.007 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 482749
Ion Ratio Lower Upper
119 100
91 79.5 61.1 91.7
134 21.2 17.4 26.2

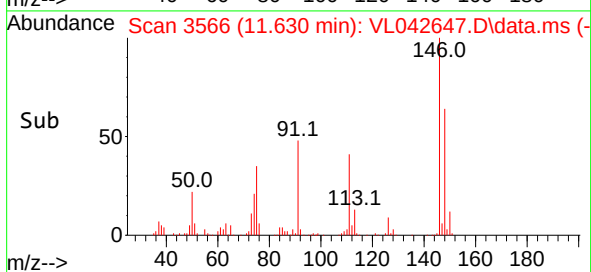
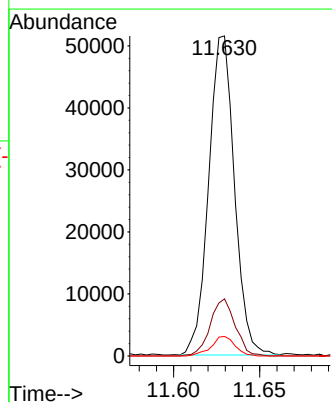
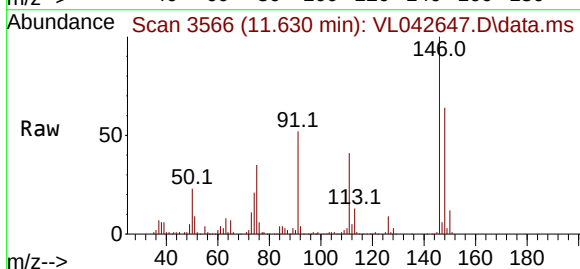
Manual Integrations
APPROVED

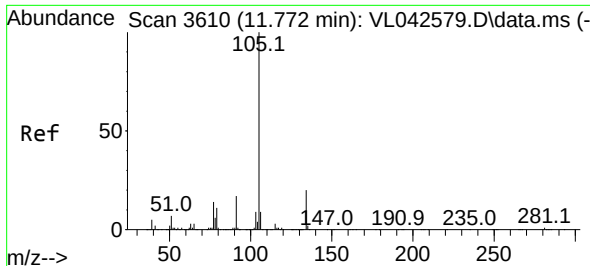
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#66
Benzyl Chloride
Concen: 9.674 ppbv
RT: 11.630 min Scan# 3566
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

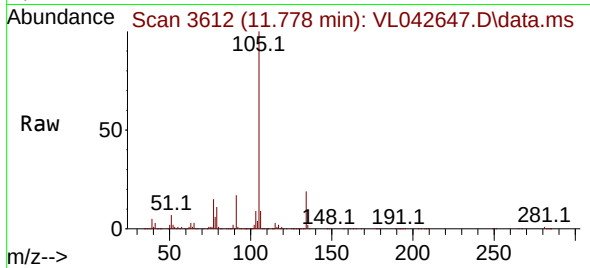
Tgt Ion: 91 Resp: 53662
Ion Ratio Lower Upper
91 100
126 17.3 15.1 22.7
128 5.7 5.0 7.6





#67
 sec-Butylbenzene
 Concen: 11.398 ppbv
 RT: 11.778 min Scan# 3612
 Delta R.T. 0.006 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

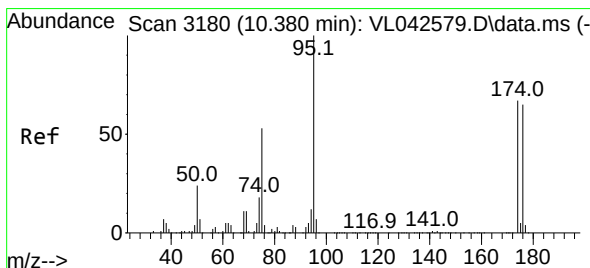
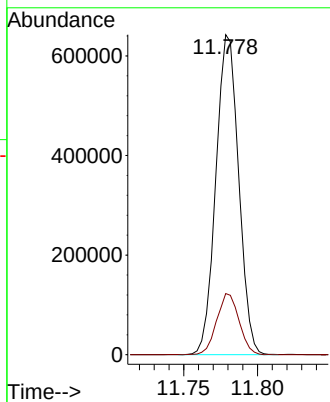
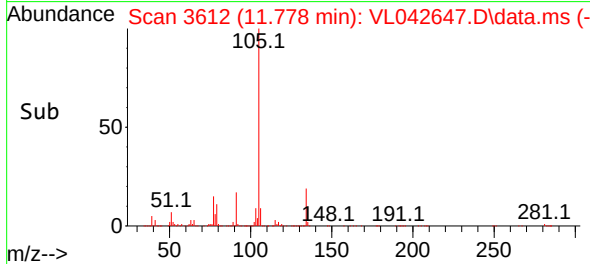
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



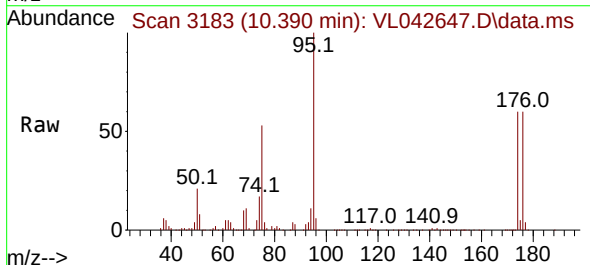
Tgt Ion:105 Resp: 69056
 Ion Ratio Lower Upper
 105 100
 134 18.8 15.8 23.6

Manual Integrations
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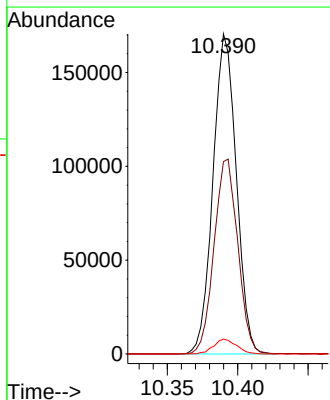
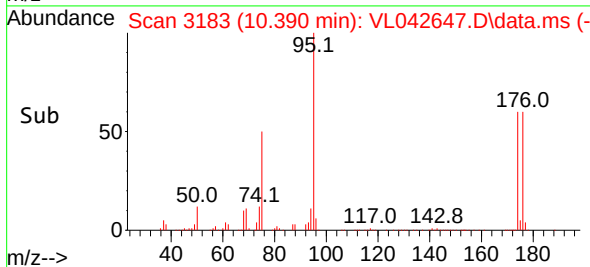
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

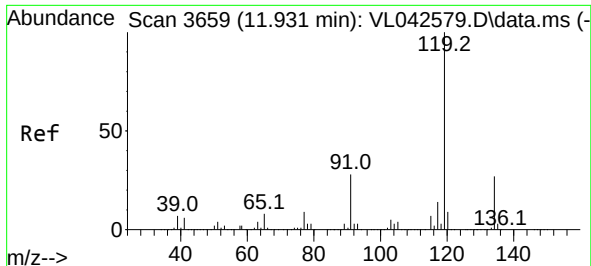


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.861 ppbv
 RT: 10.390 min Scan# 3183
 Delta R.T. 0.010 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56



Tgt Ion: 95 Resp: 196559
 Ion Ratio Lower Upper
 95 100
 174 62.1 53.1 79.7
 175 4.6 4.2 6.2





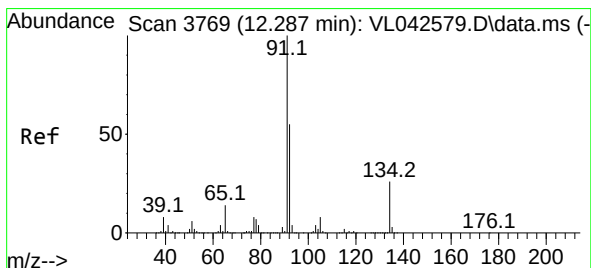
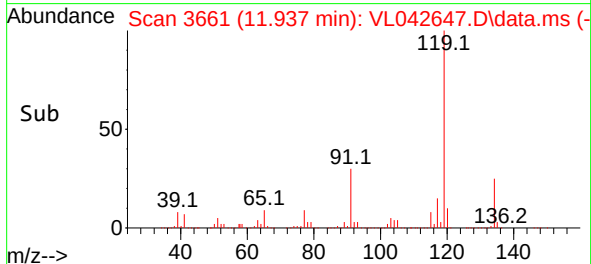
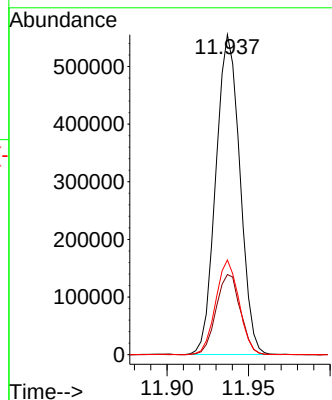
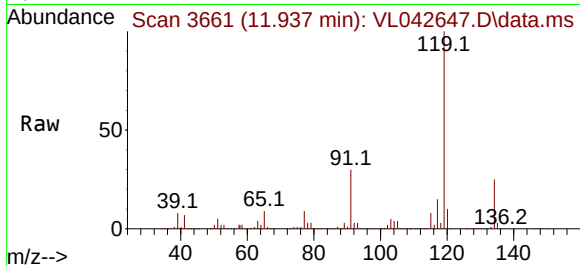
#69
p-Isopropyltoluene
Concen: 11.219 ppbv
RT: 11.937 min Scan# 3661
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 119 Resp: 56918
Ion Ratio Lower Upper
119 100
134 25.4 21.1 31.7
91 28.9 21.9 32.9

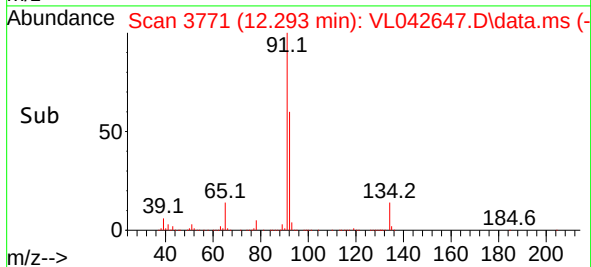
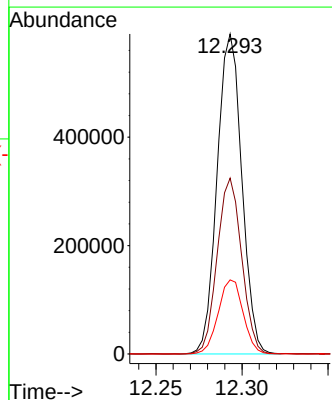
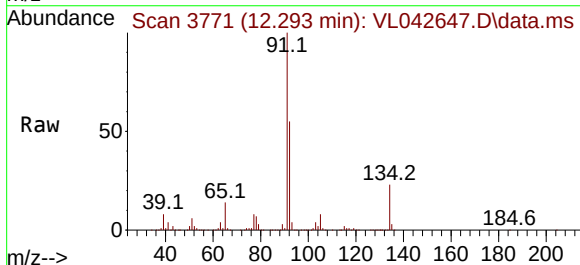
Manual Integrations
APPROVED

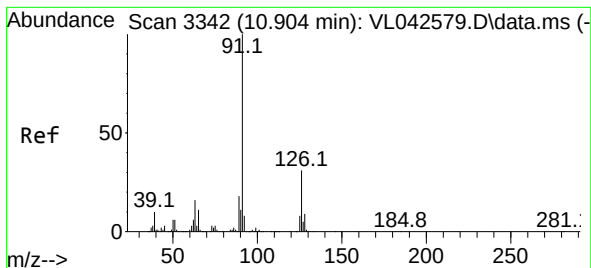
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#70
n-Butylbenzene
Concen: 11.766 ppbv
RT: 12.293 min Scan# 3771
Delta R.T. 0.007 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 91 Resp: 589246
Ion Ratio Lower Upper
91 100
92 54.5 44.4 66.6
134 23.4 20.1 30.1





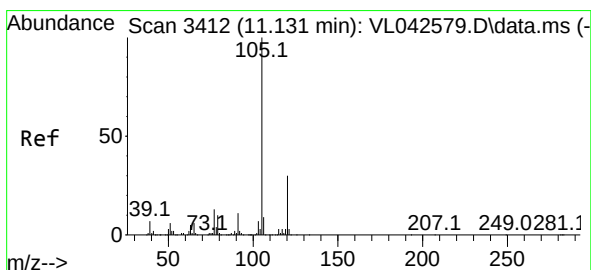
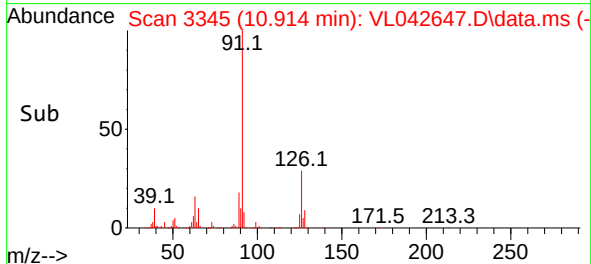
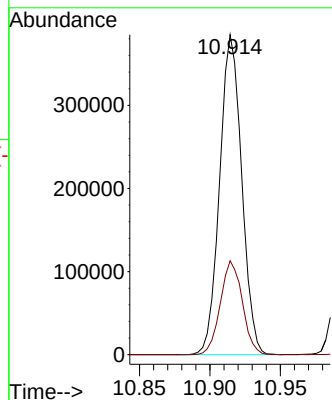
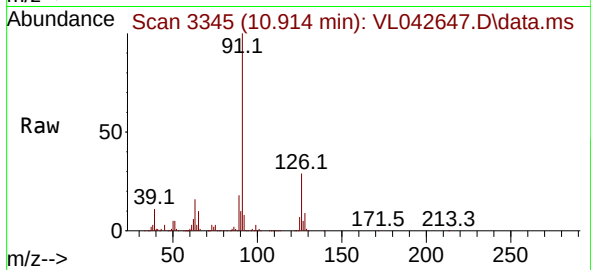
#71
2-Chlorotoluene
Concen: 11.577 ppbv
RT: 10.914 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 41935
Ion Ratio Lower Upper
91 100
126 29.3 12.6 50.4

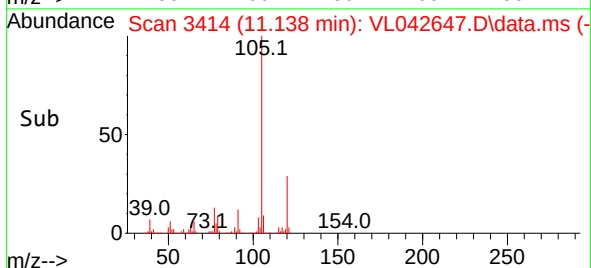
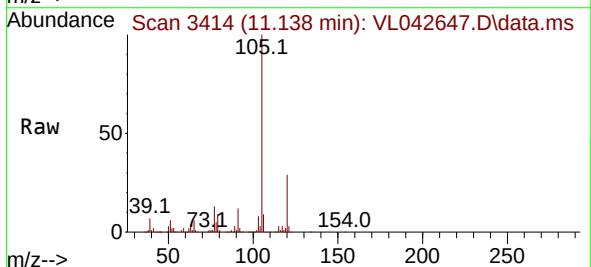
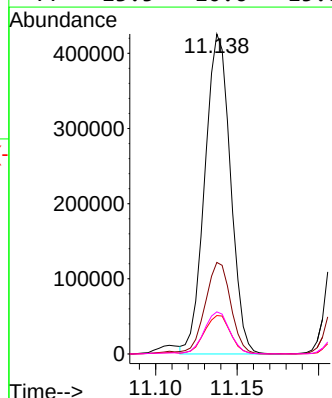
Manual Integrations
APPROVED

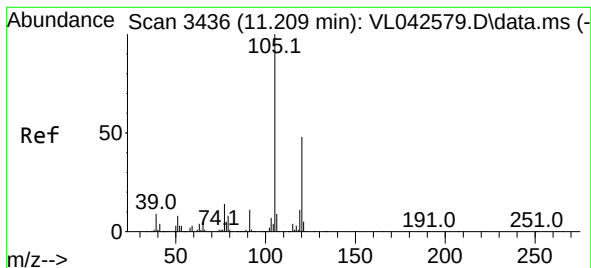
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#72
4-Ethyltoluene
Concen: 11.607 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion:105 Resp: 465148
Ion Ratio Lower Upper
105 100
120 29.2 24.6 36.8
91 12.8 9.6 14.4
77 13.5 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 11.615 ppbv

RT: 11.215 min Scan# 3436

Delta R.T. 0.007 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:105 Resp: 38525

Ion Ratio Lower Upper

105 100

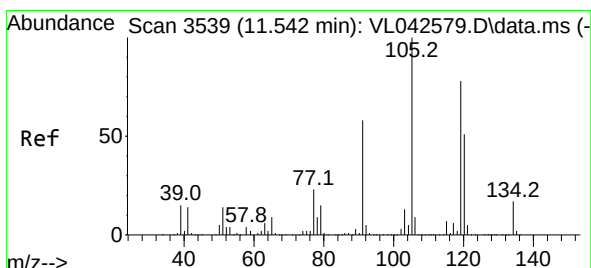
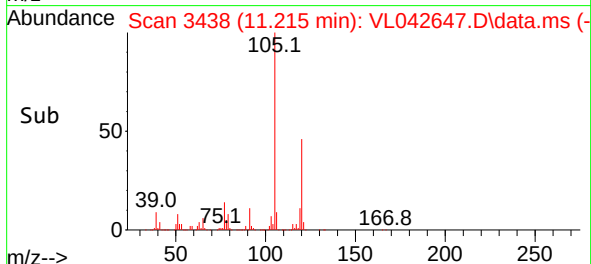
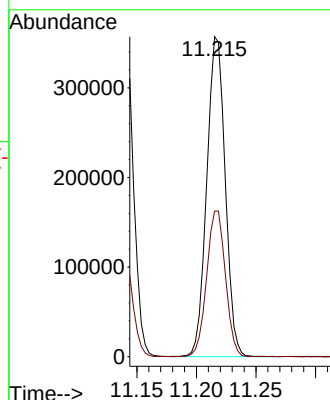
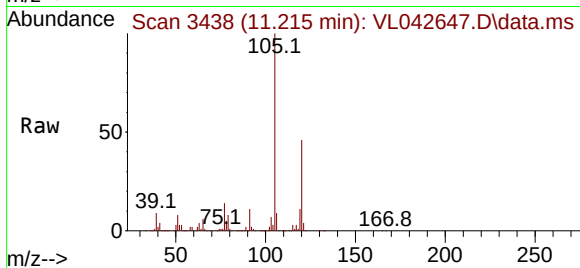
120 45.5 38.8 58.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#74

1,2,4-Trimethylbenzene

Concen: 11.734 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.007 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Tgt Ion:105 Resp: 431897

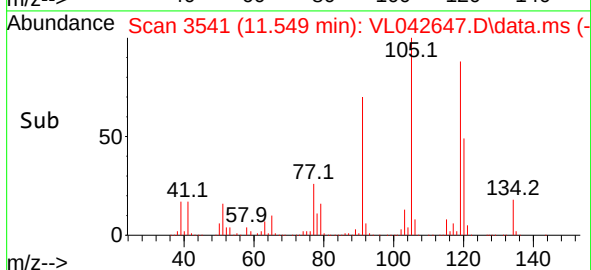
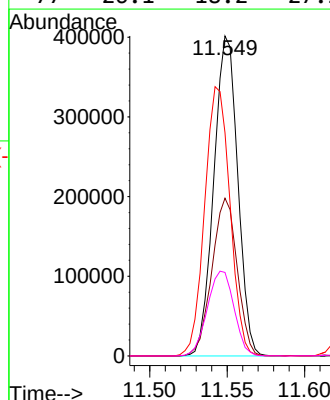
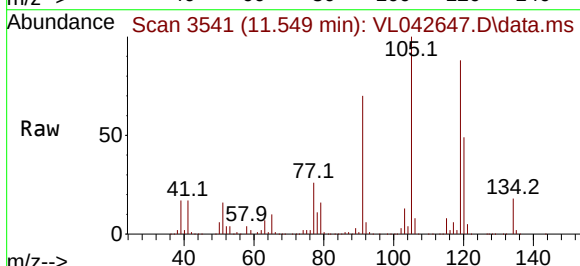
Ion Ratio Lower Upper

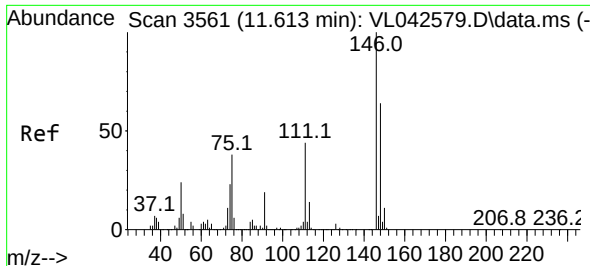
105 100

120 49.3 40.8 61.2

91 69.7 46.8 70.2

77 26.1 18.2 27.2





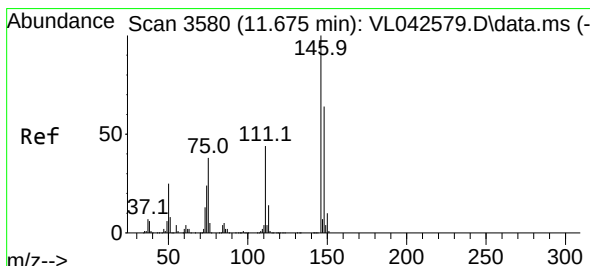
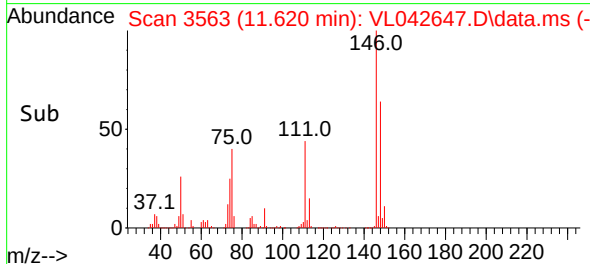
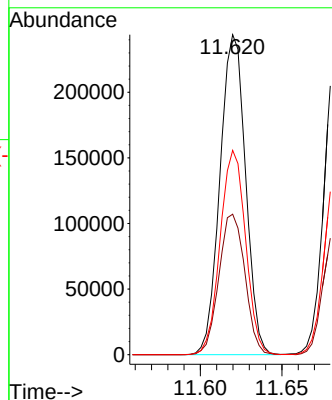
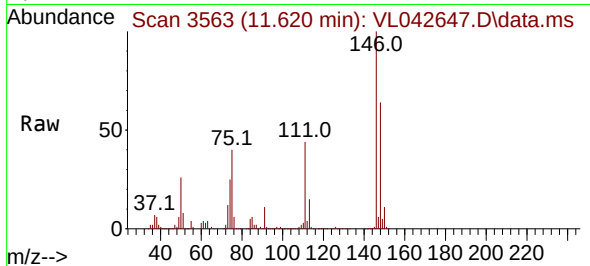
#75
1,3-Dichlorobenzene
Concen: 11.512 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 266080
Ion Ratio Lower Upper
146 100
111 44.7 22.4 67.3
148 63.5 32.0 96.2

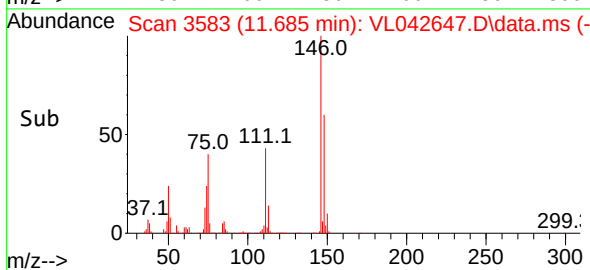
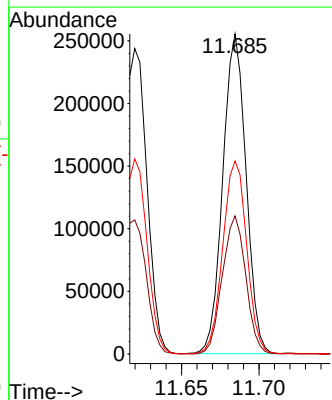
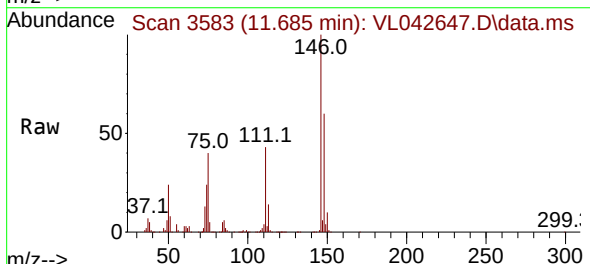
Manual Integrations
APPROVED

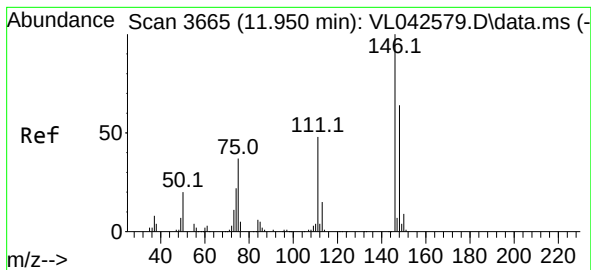
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#76
1,4-Dichlorobenzene
Concen: 11.560 ppbv
RT: 11.685 min Scan# 3583
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion:146 Resp: 266486
Ion Ratio Lower Upper
146 100
111 43.7 21.6 64.8
148 62.3 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 11.421 ppbv

RT: 11.960 min Scan# 3668

Delta R.T. 0.010 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:146 Resp: 256200

Ion Ratio Lower Upper

146 100

111 46.6 23.1 69.3

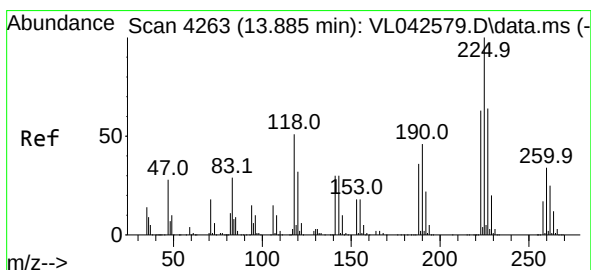
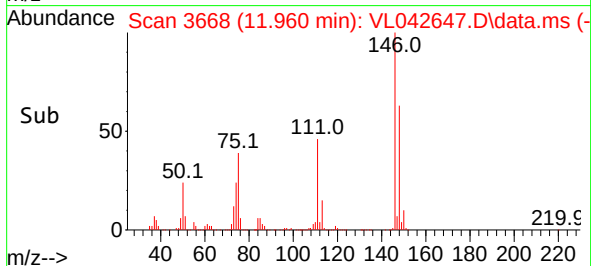
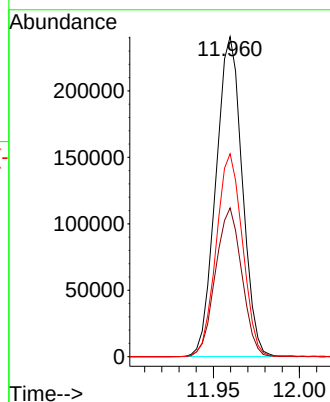
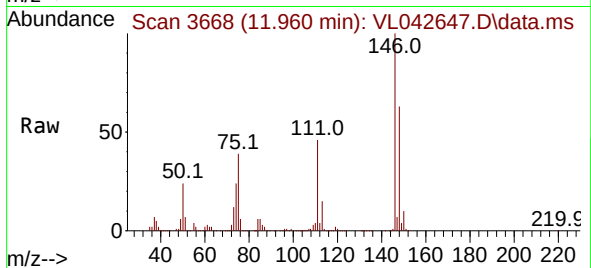
148 63.3 32.1 96.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#78

Hexachloro-1,3-Butadiene

Concen: 9.909 ppbv

RT: 13.892 min Scan# 4265

Delta R.T. 0.007 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

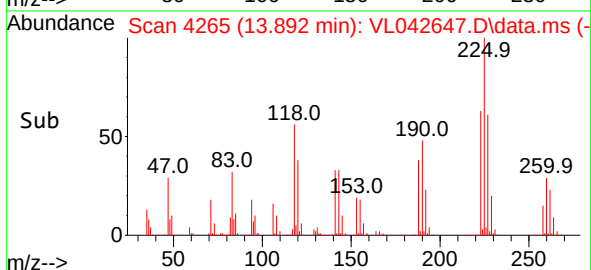
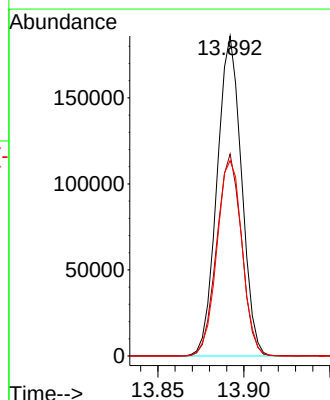
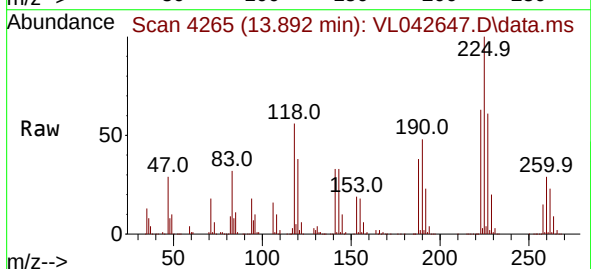
Tgt Ion:225 Resp: 183922

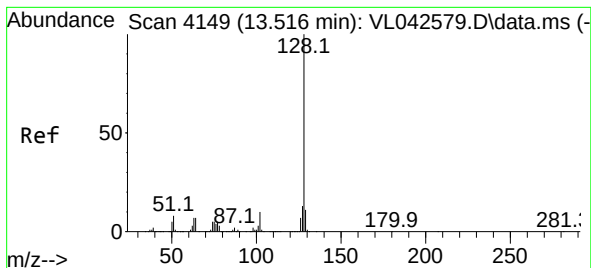
Ion Ratio Lower Upper

225 100

223 63.7 50.2 75.4

227 62.8 51.1 76.7





#79

Naphthalene

Concen: 11.640 ppbv

RT: 13.523 min Scan# 4149

Delta R.T. 0.006 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

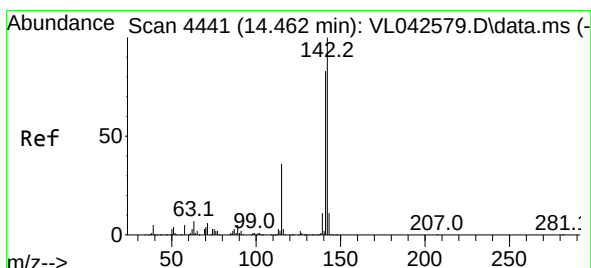
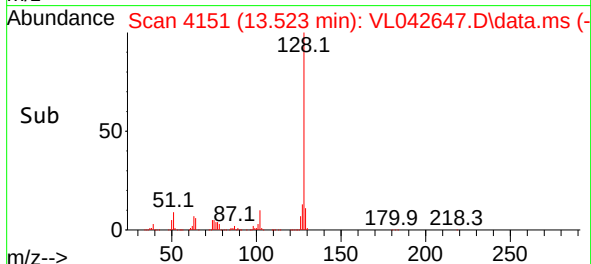
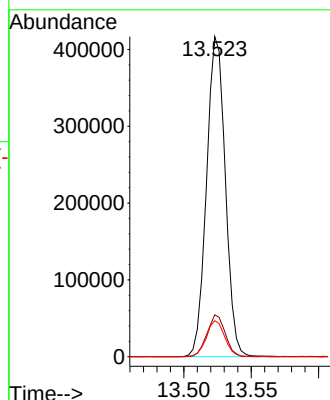
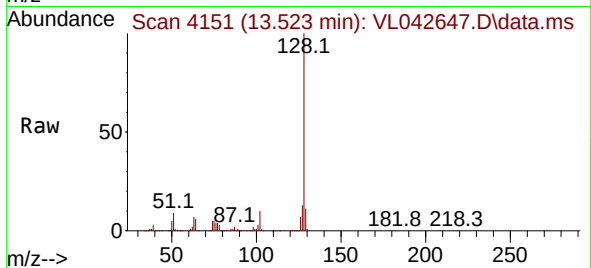
VSTDCCC010

Tgt Ion:128 Resp: 403844
 Ion Ratio Lower Upper
 128 100
 127 13.1 10.2 15.4
 129 11.3 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



#80

Naphthalene,2-methyl-

Concen: 12.145 ppbv

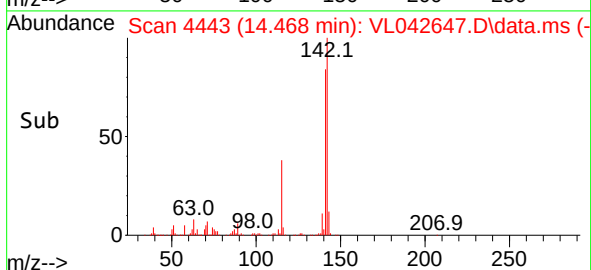
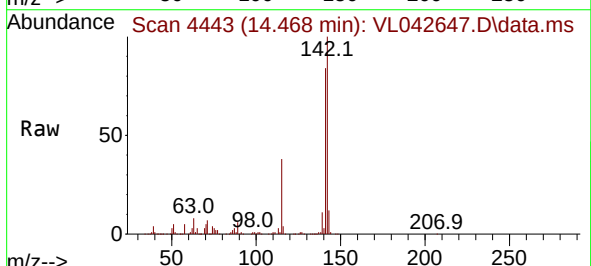
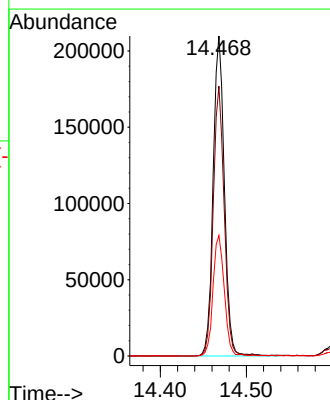
RT: 14.468 min Scan# 4443

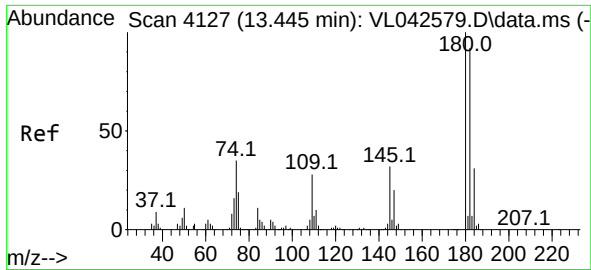
Delta R.T. 0.006 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

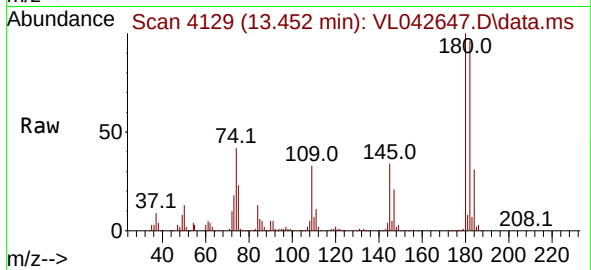
Tgt Ion:142 Resp: 190371
 Ion Ratio Lower Upper
 142 100
 141 82.9 66.2 99.4
 115 38.1 28.3 42.5





#81
 1,2,4-Trichlorobenzene
 Concen: 10.761 ppbv
 RT: 13.452 min Scan# 41
 Delta R.T. 0.007 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

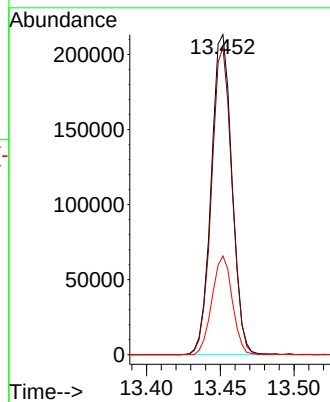
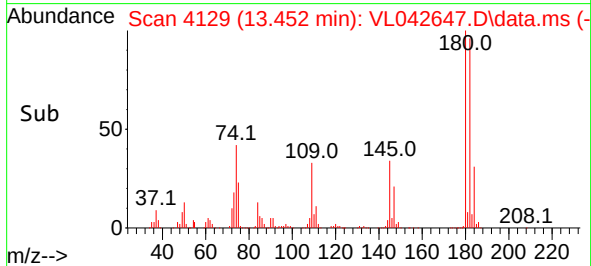
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:180 Resp: 208409
 Ion Ratio Lower Upper
 180 100
 182 94.9 75.0 112.4
 184 30.2 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042647.D
 Acq On : 19 Jun 2025 08:56
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jun 20 01:33:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	1.229	1.288	-4.8	117	0.00
3	Chlorodifluoromethane	1.693	1.643	3.0	115	0.00
4	Chloromethane	0.487	0.488	-0.2	109	0.00
5 T	Vinyl Chloride	0.496	0.448	9.7	105	0.00
6 T	Bromomethane	0.241	0.223	7.5	106	0.00
7	Chloroethane	0.193	0.183	5.2	108	0.00
8 T	Dichlorotetrafluoroethane	1.024	1.047	-2.2	114	0.00
9 T	Propene	0.682	0.579	15.1	92	0.00
10 T	Heptane	1.921	1.822	5.2	106	0.02
11 T	Trichlorofluoromethane	1.144	1.313	-14.8	126	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.898	1.012	-12.7	124	0.00
13	Ethanol	0.081	0.054	33.3#	96	0.00
14 T	Bromoethene	0.338	0.346	-2.4	112	0.00
15 T	Acetone	1.205	1.058	12.2	117	0.00
16 T	1,3-Butadiene	0.571	0.525	8.1	110	0.00
17	tert-Butyl alcohol	1.255	1.201	4.3	100	0.00
18 T	1,1-Dichloroethene	0.416	0.435	-4.6	119	0.00
19 T	Isopropyl Alcohol	0.720	0.674	6.4	105	0.00
20 T	Methylene Chloride	0.398	0.378	5.0	119	0.00
21 T	Allyl Chloride	0.850	0.840	1.2	110	0.00
22 T	trans-1,2-Dichloroethene	0.465	0.492	-5.8	118	0.00
23 T	Vinyl Acetate	1.628	2.045	-25.6	144	0.00
24 T	1,1-Dichloroethane	0.957	0.989	-3.3	113	0.00
25 T	Ethyl Acetate	3.296	3.256	1.2	110	0.00
26 T	Hexane	1.498	1.411	5.8	108	0.00
27 T	Carbon Disulfide	1.150	1.230	-7.0	118	0.00
28 T	Methyl tert-Butyl Ether	0.608	0.642	-5.6	120	0.00
29 T	Chloroform	1.948	2.125	-9.1	125	0.00
30 T	Cyclohexane	1.242	1.116	10.1	100	0.01
31 T	cis-1,2-Dichloroethene	1.370	1.350	1.5	109	0.00
32 T	1,1,1-Trichloroethane	1.990	2.027	-1.9	116	0.01
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	88	0.01
34 T	2-Butanone	0.713	0.823	-15.4	111	0.00
35 T	Carbon Tetrachloride	0.660	0.793	-20.2	116	0.00
36 T	Benzene	0.985	1.082	-9.8	106	0.00
37 T	1,2-Dichloroethane	0.489	0.614	-25.6	121	0.00
38 T	Trichloroethene	0.419	0.422	-0.7	99	0.02
39 T	1,2-Dichloropropane	0.364	0.405	-11.3	109	0.02
40 T	1,4-Dioxane	0.163	0.171	-4.9	99	0.00
41 T	Tetrahydrofuran	0.417	0.441	-5.8	100	0.00
42 T	Bromodichloromethane	0.695	0.860	-23.7	116	0.01
43	Methyl Methacrylate	0.382	0.406	-6.3	98	0.02
44 T	2,2,4-Trimethylpentane	1.684	1.861	-10.5	108	0.01
45 T	t-1,3-Dichloropropene	0.437	0.464	-6.2	96	0.02
46 T	cis-1,3-Dichloropropene	0.548	0.591	-7.8	99	0.02
47 T	1,1,2-Trichloroethane	0.377	0.425	-12.7	109	0.02
48 T	Dibromochloromethane	0.603	0.689	-14.3	107	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042647.D
 Acq On : 19 Jun 2025 08:56
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jun 20 01:33:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	0.521	0.619	-18.8	108	0.00
50 T	4-Methyl-2-Pentanone	0.989	1.102	-11.4	101	0.02
51 T	2-Hexanone	0.784	0.877	-11.9	99	0.00
52 T	Tetrachloroethene	0.368	0.367	0.3	97	0.01
53 T	Toluene	1.138	1.178	-3.5	99	0.01
54 T	1,2-Dibromoethane	0.558	0.630	-12.9	108	0.01
55 I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
56	1,1,1,2-Tetrachloroethane	0.503	0.601	-19.5	109	0.01
57 T	Chlorobenzene	0.971	1.071	-10.3	104	0.01
58 T	Ethyl Benzene	1.696	1.878	-10.7	103	0.00
59 T	m/p-Xylene	1.335	1.580	-18.4	110	0.03
60 T	o-Xylene	1.331	1.565	-17.6	111	0.00
61 T	Styrene	0.629	0.656	-4.3	94	0.01
62	Isopropylbenzene	1.967	2.272	-15.5	108	0.00
63 T	1,1,2,2-Tetrachloroethane	0.847	1.025	-21.0	120	0.00
64	n-propylbenzene	0.527	0.601	-14.0	108	0.00
65	tert-Butylbenzene	1.785	1.999	-12.0	107	0.00
66 T	Benzyl Chloride	0.230	0.222	3.5	78	0.00
67	sec-Butylbenzene	2.509	2.860	-14.0	110	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.814	-8.5	92	0.00
69	p-Isopropyltoluene	2.101	2.357	-12.2	107	0.00
70	n-Butylbenzene	2.074	2.441	-17.7	112	0.00
71	2-Chlorotoluene	1.500	1.737	-15.8	109	0.00
72 T	4-Ethyltoluene	1.660	1.927	-16.1	110	0.00
73 T	1,3,5-Trimethylbenzene	1.374	1.596	-16.2	109	0.00
74 T	1,2,4-Trimethylbenzene	1.524	1.789	-17.4	113	0.00
75 T	1,3-Dichlorobenzene	0.957	1.102	-15.2	111	0.00
76 T	1,4-Dichlorobenzene	0.955	1.104	-15.6	110	0.00
77 T	1,2-Dichlorobenzene	0.929	1.061	-14.2	112	0.00
78 T	Hexachloro-1,3-Butadiene	0.769	0.762	0.9	106	0.00
79 T	Naphthalene	1.437	1.673	-16.4	102	0.00
80 T	Naphthalene,2-methyl-	0.649	0.788	-21.4	93	0.00
81 T	1,2,4-Trichlorobenzene	0.802	0.863	-7.6	99	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



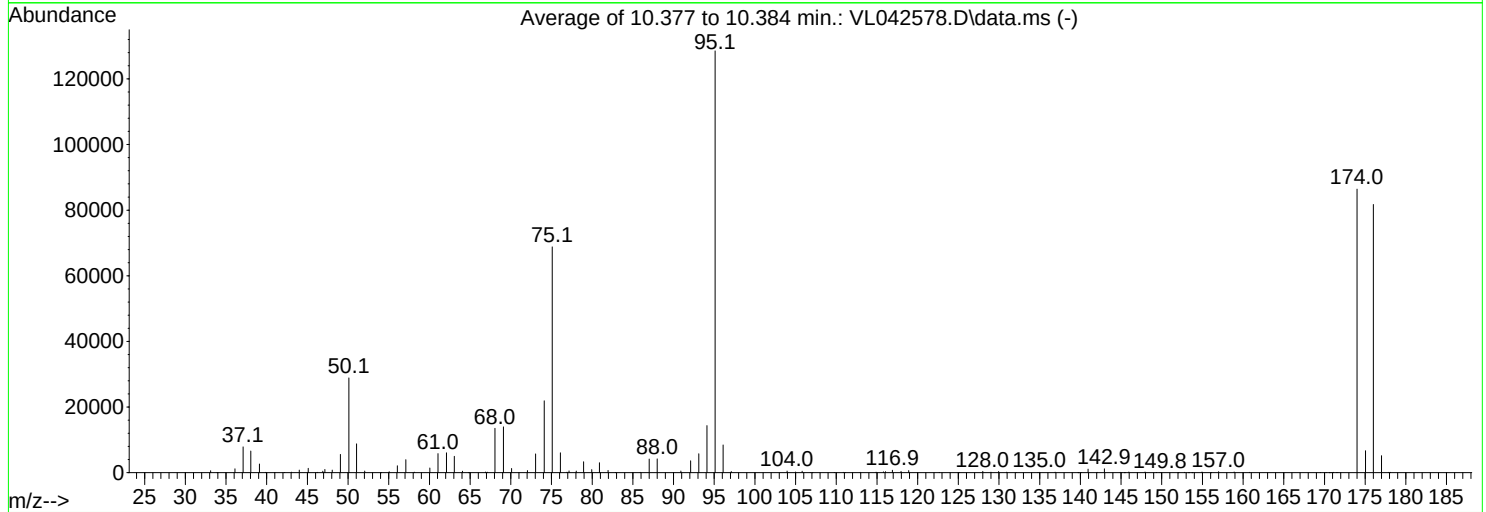
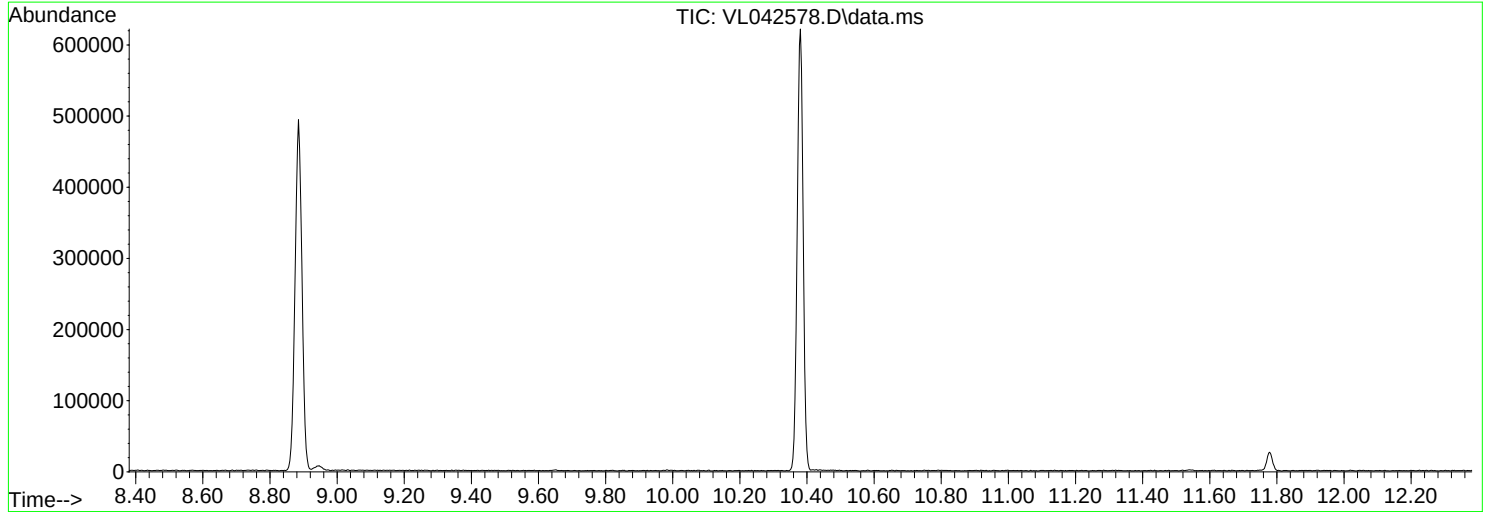
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042578.D
Acq On : 29 May 2025 08:05
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\VL052025AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed May 21 00:21:29 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

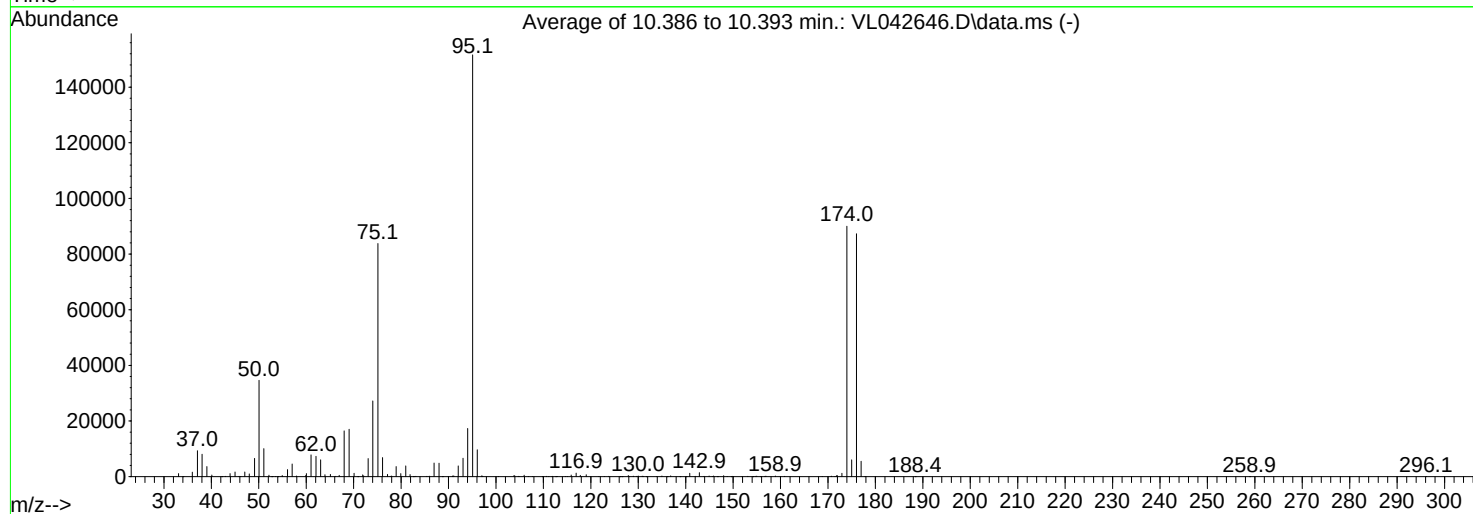
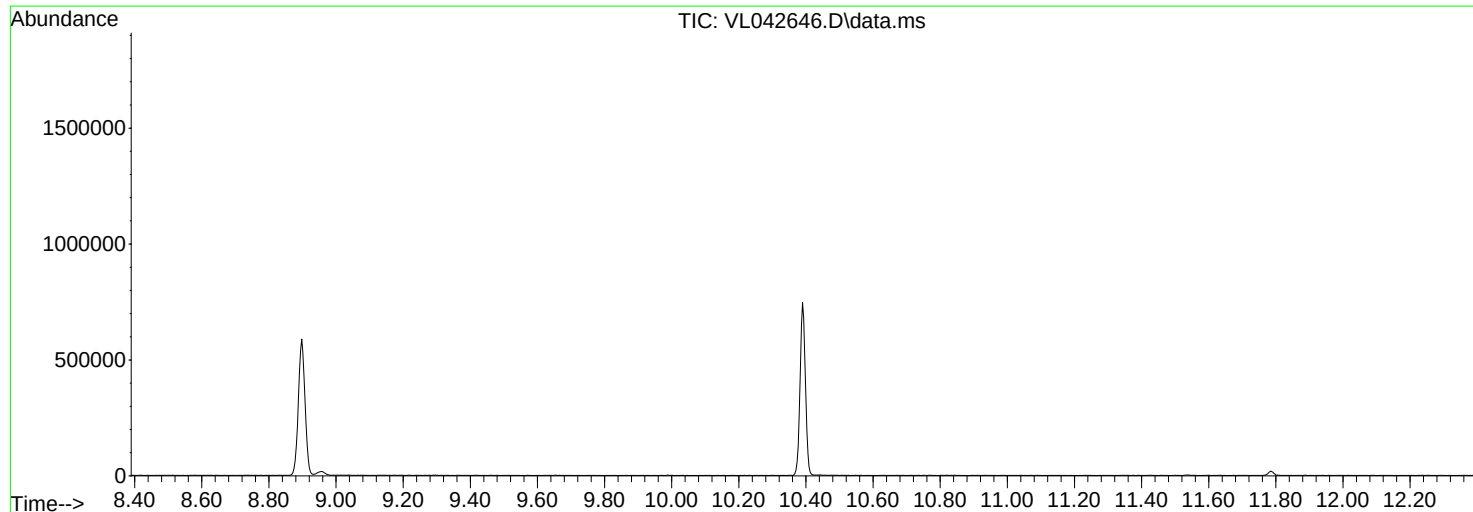
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.4	28861	PASS
75	95	30	66	53.5	68792	PASS
95	95	100	100	100.0	128557	PASS
96	95	5	9	6.6	8426	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	67.2	86397	PASS
175	174	4	9	7.7	6664	PASS
176	174	93	101	94.6	81744	PASS
177	176	5	9	6.3	5154	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
Data File : VL042646.D
Acq On : 19 Jun 2025 08:10
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\VL052925AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri May 30 02:01:56 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3159

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.8	34621	PASS
75	95	30	66	55.3	83795	PASS
95	95	100	100	100.0	151616	PASS
96	95	5	9	6.4	9668	PASS
173	174	0.00	2	1.3	1201	PASS
174	95	50	120	59.4	90011	PASS
175	174	4	9	6.7	6045	PASS
176	174	93	101	97.0	87299	PASS
177	176	5	9	6.3	5534	PASS

Report of Analysis

Client:	Water Resource Technologies, Inc.	Date Collected:	
Project:	Air - TO-15	Date Received:	
Client Sample ID:	VL0619ABL01	SDG No.:	Q2359
Lab Sample ID:	VL0619ABL01	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
VL042648.D	1		06/19/25 09:42	VL061925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.11	0.54	U	0.54	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.080	0.24	U	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.17	0.96	U	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	0.18	0.43	U	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	0.080	0.25	U	0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	0.23	0.80	U	0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	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	0.060	0.18	U	0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.030	0.19	U	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.10	0.49	U	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.080	0.26	U	0.26	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	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.16	0.60	U	0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3

Report of Analysis

Client:	Water Resource Technologies, Inc.	Date Collected:	
Project:	Air - TO-15	Date Received:	
Client Sample ID:	VL0619ABL01	SDG No.:	Q2359
Lab Sample ID:	VL0619ABL01	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
VL042648.D	1		06/19/25 09:42	VL061925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	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	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.16	0.68	U	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	0.16	0.56	U	0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	105000		2.8			
540-36-3	1,4-Difluorobenzene	274000		3.978			
3114-55-4	Chlorobenzene-d5	234000		8.901			

Report of Analysis

Client:	Water Resource Technologies, Inc.	Date Collected:	
Project:	Air - TO-15	Date Received:	
Client Sample ID:	VL0619ABL01	SDG No.:	Q2359
Lab Sample ID:	VL0619ABL01	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
VL042648.D	1		06/19/25 09:42	VL061925

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042648.D
 Acq On : 19 Jun 2025 09:42
 Operator : SY/MD
 Sample : VL0619ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABL01

Quant Time: Jun 20 01:34:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	105000	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.978	114	273905	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.901	117	233634	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.393	95	178374	10.185	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%

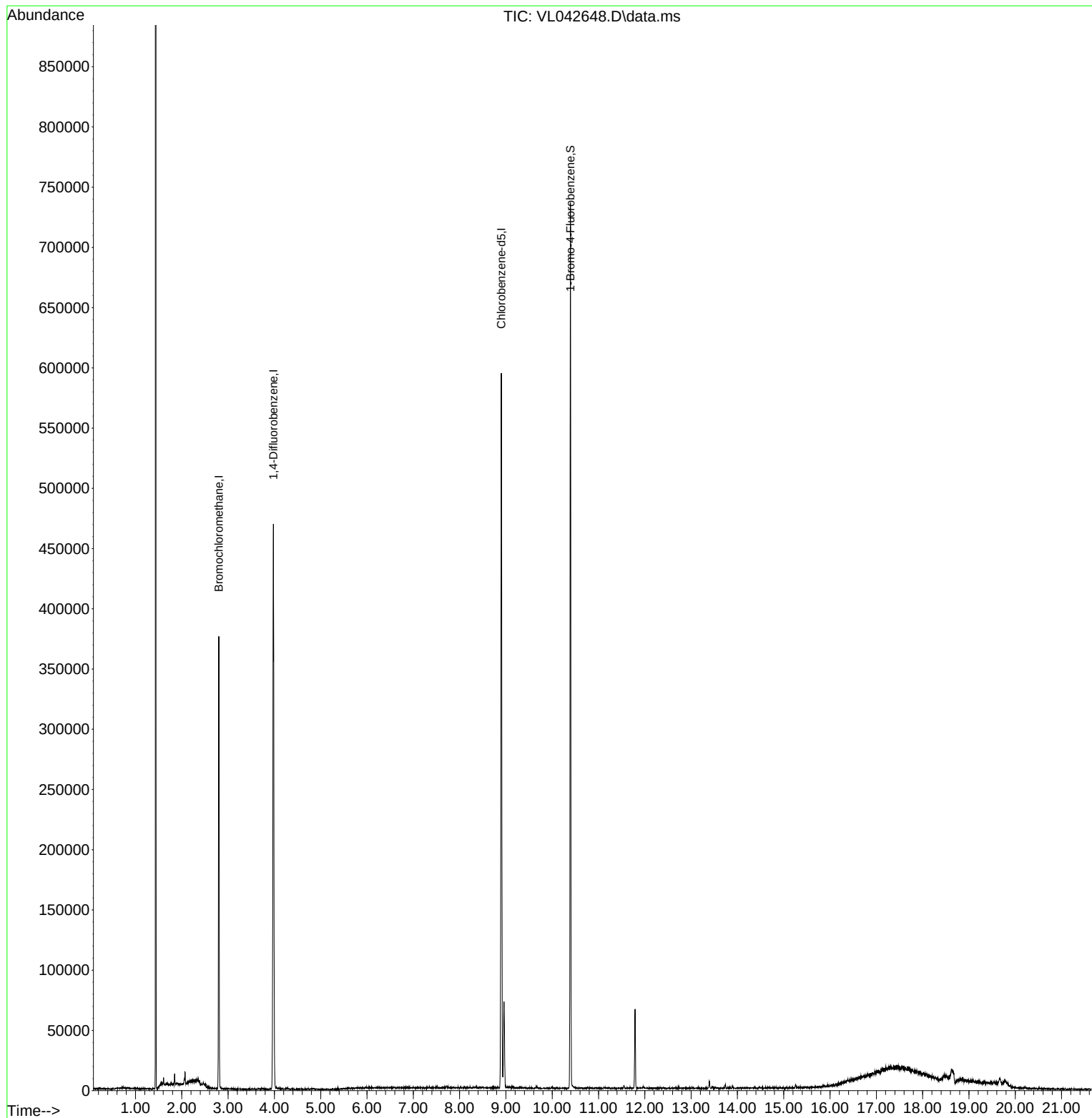
Target Compounds	Qvalue

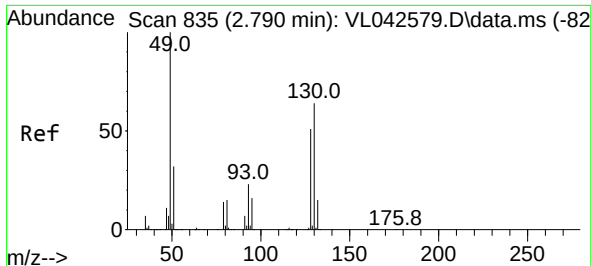
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
Data File : VL042648.D
Acq On : 19 Jun 2025 09:42
Operator : SY/MD
Sample : VL0619ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABL01

Quant Time: Jun 20 01:34:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

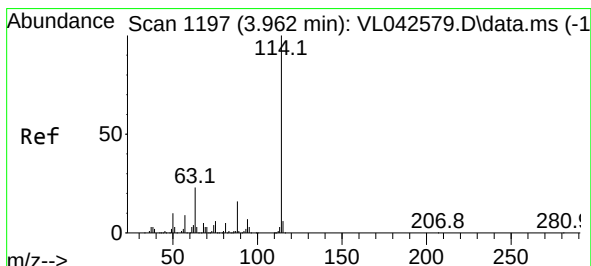
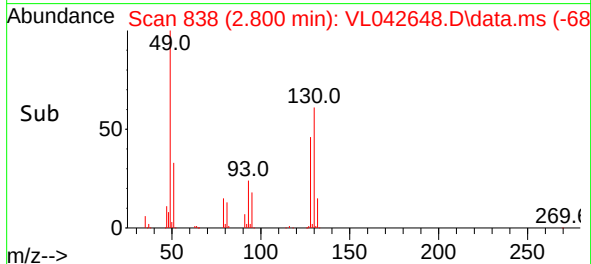
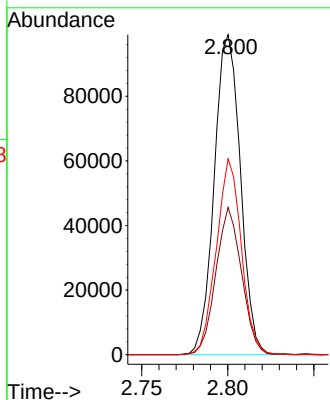
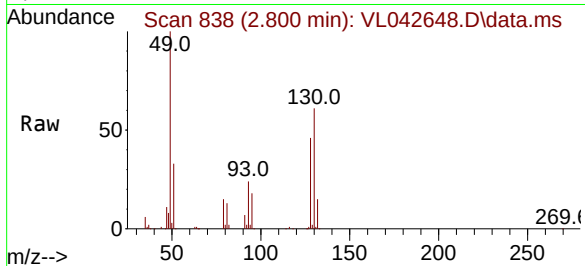




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042648.D
Acq: 19 Jun 2025 09:42

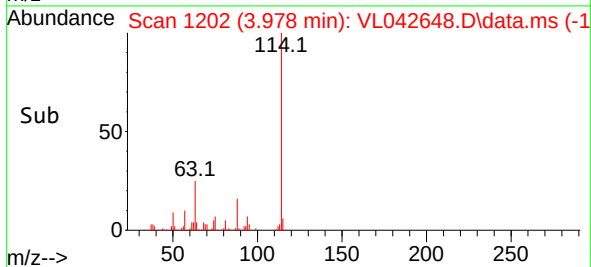
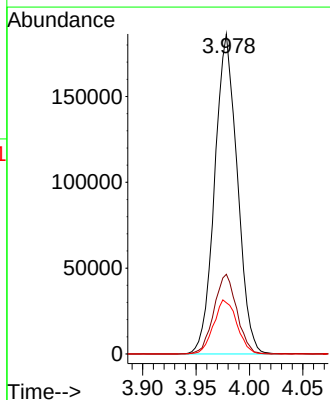
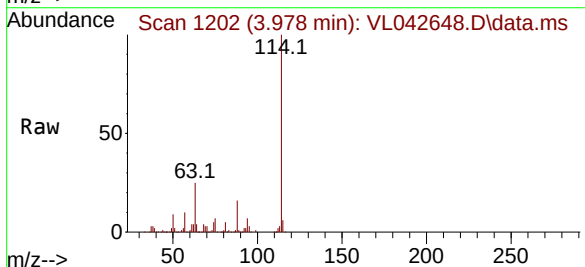
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABL01

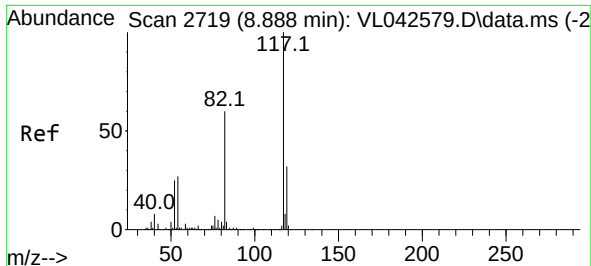
Tgt Ion: 49 Resp: 105000
Ion Ratio Lower Upper
49 100
128 45.2 24.2 72.6
130 58.6 30.4 91.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. 0.016 min
Lab File: VL042648.D
Acq: 19 Jun 2025 09:42

Tgt Ion: 114 Resp: 273905
Ion Ratio Lower Upper
114 100
63 25.4 19.0 28.6
88 17.4 13.6 20.4

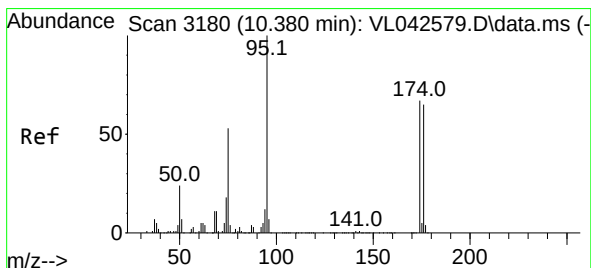
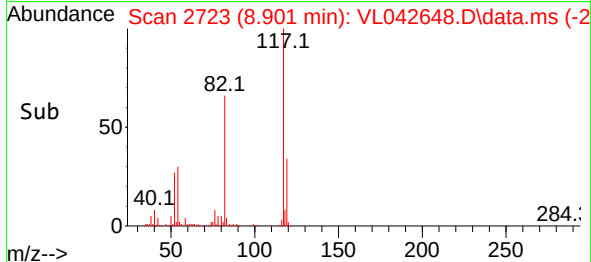
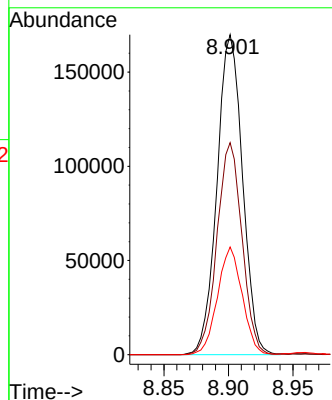
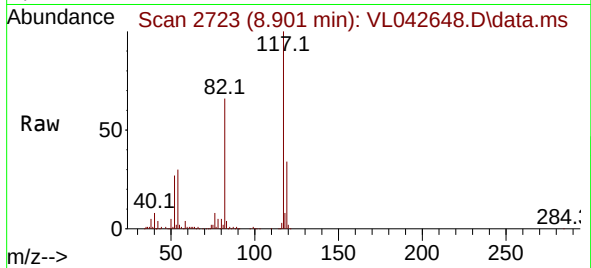




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042648.D
Acq: 19 Jun 2025 09:42

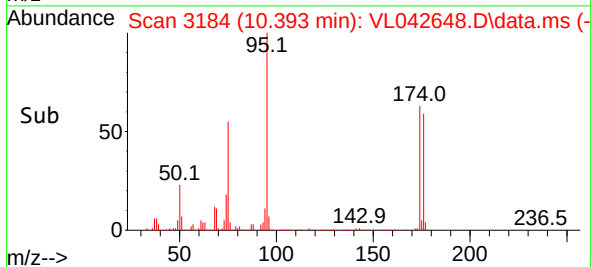
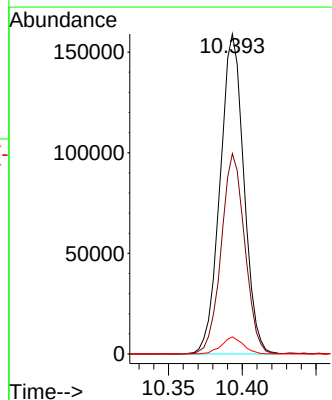
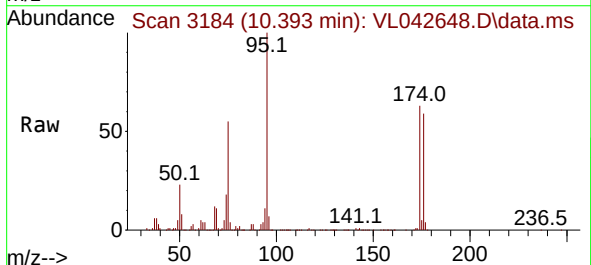
Instrument :
MSVOA_1
ClientSampleId :
VL0619ABL01

Tgt Ion:117 Resp: 233634
Ion Ratio Lower Upper
117 100
82 64.8 51.2 76.8
119 32.5 26.3 39.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.185 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.013 min
Lab File: VL042648.D
Acq: 19 Jun 2025 09:42

Tgt Ion: 95 Resp: 178374
Ion Ratio Lower Upper
95 100
174 62.1 53.1 79.7
175 4.9 4.2 6.2



Report of Analysis

Client:	Water Resource Technologies, Inc.	Date Collected:	
Project:	Air - TO-15	Date Received:	
Client Sample ID:	VL0619ABS01	SDG No.:	Q2359
Lab Sample ID:	VL0619ABS01	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
VL042649.D	1		06/19/25 10:26	VL061925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	10.7	52.9		0.54	2.47	ug/m3
74-87-3	Chloromethane	10.1	20.9		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	9.30	23.8		0.080	0.080	ug/m3
74-83-9	Bromomethane	9.40	36.5		0.31	1.94	ug/m3
75-00-3	Chloroethane	9.70	25.6		0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	10.6	31.3		0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	12.1	68.0		0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	11.9	91.2		1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	10.5	73.4		1.05	3.49	ug/m3
75-65-0	tert-Butyl alcohol	9.90	30.0		0.49	1.52	ug/m3
142-82-5	Heptane	9.50	38.9		0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	10.9	43.2		0.59	1.98	ug/m3
67-64-1	Acetone	9.10	21.6		0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	10.8	33.6		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	11.2	40.4		0.83	1.80	ug/m3
75-09-2	Methylene Chloride	9.60	33.4		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	11.0	43.6		0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	10.8	43.7		0.53	2.02	ug/m3
110-82-7	Cyclohexane	9.10	31.3		0.76	1.72	ug/m3
78-93-3	2-Butanone	11.7	34.5		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	12.0	75.5		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.70	38.5		0.40	1.98	ug/m3
67-66-3	Chloroform	10.7	52.3		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	10.0	54.6		0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	11.1	51.9		0.65	2.34	ug/m3
71-43-2	Benzene	10.8	34.5		0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	12.6	51.0		0.36	2.02	ug/m3
79-01-6	Trichloroethene	10.2	54.8		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	10.9	50.4		0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	12.3	82.4		0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	11.0	45.1		0.41	2.05	ug/m3
108-88-3	Toluene	10.5	39.6		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	10.5	47.7		0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	10.6	48.1		0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	11.5	62.7		0.44	2.73	ug/m3

Report of Analysis

Client:	Water Resource Technologies, Inc.	Date Collected:	
Project:	Air - TO-15	Date Received:	
Client Sample ID:	VL0619ABS01	SDG No.:	Q2359
Lab Sample ID:	VL0619ABS01	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
VL042649.D	1		06/19/25 10:26	VL061925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	11.3	96.3		0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	11.2	86.1		0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	9.80	66.5		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	11.1	51.1		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	11.1	48.2		0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	23.2	101		1.78	4.34	ug/m3
95-47-6	o-Xylene	11.7	50.8		0.91	2.17	ug/m3
100-42-5	Styrene	10.3	43.9		0.68	2.13	ug/m3
75-25-2	Bromoform	11.3	117		0.52	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	11.7	80.3		0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	11.3	58.5		0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	11.5	56.5		0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	11.6	57.0		0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	11.4	68.5		0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	11.5	69.1		0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	11.3	67.9		0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	10.7	79.4		1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	9.80	105		1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	9.20	20.4		0.11	1.11	ug/m3
91-20-3	Naphthalene	11.8	61.9		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	11.6	57.0		1.03	2.46	ug/m3
110-54-3	Hexane	9.40	33.1		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	10.0	31.3		0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	10.3	37.1		0.79	1.80	ug/m3
80-62-6	Methyl Methacrylate	10.4	42.6		0.57	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			65 - 135	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	108000			2.8		
540-36-3	1,4-Difluorobenzene	277000			3.975		
3114-55-4	Chlorobenzene-d5	244000			8.901		

Report of Analysis

Client:	Water Resource Technologies, Inc.	Date Collected:	
Project:	Air - TO-15	Date Received:	
Client Sample ID:	VL0619ABS01	SDG No.:	Q2359
Lab Sample ID:	VL0619ABS01	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
VL042649.D	1		06/19/25 10:26	VL061925

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042649.D
 Acq On : 19 Jun 2025 10:26
 Operator : SY/MD
 Sample : VL0619ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABS01

Quant Time: Jun 20 01:35:03 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 06/23/2025
 Supervised By : Mahesh Dadoda 06/23/2025

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

Internal Standards						
1) Bromochloromethane	2.800	49	107593	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	277113	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.901	117	244062	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 194374 10.624 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	142090	10.745	ppbv	99
3) Chlorodifluoromethane	1.479	51	178086	9.778	ppbv	95
4) Chloromethane	1.538	50	52647	10.054	ppbv	97
5) Vinyl Chloride	1.586	62	49813	9.338	ppbv	93
6) Bromomethane	1.674	94	24497	9.435	ppbv	93
7) Chloroethane	1.712	64	20025	9.661	ppbv	97
8) Dichlorotetrafluoroethane	1.560	85	115548	10.487	ppbv	98
9) Propene	1.489	41	67588	9.215	ppbv	99
10) Heptane	5.004	43	196137	9.487	ppbv	99
11) Trichlorofluoromethane	1.884	101	148395	12.061	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	114662	11.868	ppbv	96
13) Ethanol	1.729	45	5283	6.044	ppbv	87
14) Bromoethene	1.790	108	40199	11.062	ppbv	96
15) Acetone	1.842	43	118513	9.145	ppbv	97
16) 1,3-Butadiene	1.615	39	56246	9.162	ppbv	97
17) tert-Butyl alcohol	2.046	59	133965	9.922	ppbv	99
18) 1,1-Dichloroethene	2.043	96	48846	10.908	ppbv	95
19) Isopropyl Alcohol	1.894	45	75712	9.772	ppbv	96
20) Methylene Chloride	2.068	84	41003	9.587	ppbv	97
21) Allyl Chloride	2.104	41	91875	10.047	ppbv	95
22) trans-1,2-Dichloroethene	2.350	96	54912	10.978	ppbv	93
23) Vinyl Acetate	2.473	43	216370	12.351	ppbv #	98
24) 1,1-Dichloroethane	2.418	63	110695	10.756	ppbv	100
25) Ethyl Acetate	2.845	43	348113	9.815	ppbv	99
26) Hexane	2.839	57	150708	9.352	ppbv	96
27) Carbon Disulfide	2.159	76	133837	10.818	ppbv #	93
28) Methyl tert-Butyl Ether	2.450	73	73405	11.225	ppbv	99
29) Chloroform	2.858	83	224279	10.702	ppbv	97
30) Cyclohexane	3.871	84	121943	9.127	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	143034	9.703	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	214588	10.022	ppbv	99
34) 2-Butanone	2.567	43	230485	11.663	ppbv	99
35) Carbon Tetrachloride	3.781	117	219519	12.000	ppbv	97
36) Benzene	3.671	78	295149	10.816	ppbv	100
37) 1,2-Dichloroethane	3.230	62	171230	12.625	ppbv	97
38) Trichloroethene	4.570	130	117728	10.150	ppbv	91
39) 1,2-Dichloropropane	4.331	63	110494	10.949	ppbv	97
40) 1,4-Dioxane	4.596	88	46497	10.297	ppbv #	89
41) Tetrahydrofuran	3.065	42	122612	10.599	ppbv	98
42) Bromodichloromethane	4.509	83	237205	12.314	ppbv	95
43) Methyl Methacrylate	4.901	69	110610	10.443	ppbv	99
44) 2,2,4-Trimethylpentane	4.658	57	516730	11.070	ppbv	99
45) t-1,3-Dichloropropene	6.438	75	126703	10.454	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042649.D
 Acq On : 19 Jun 2025 10:26
 Operator : SY/MD
 Sample : VL0619ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 01:35:03 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

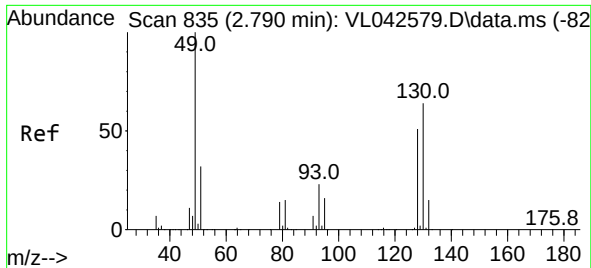
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

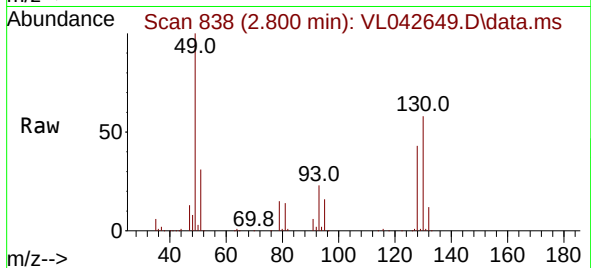
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	160871	10.593	ppbv	97
47) 1,1,2-Trichloroethane	6.603	97	120343	11.520	ppbv	97
48) Dibromochloromethane	7.409	129	188153	11.251	ppbv	100
49) Bromoform	9.503	173	162341	11.251	ppbv	99
50) 4-Methyl-2-Pentanone	5.778	43	300801	10.974	ppbv	98
51) 2-Hexanone	7.454	43	237712	10.935	ppbv #	97
52) Tetrachloroethene	8.244	164	100098	9.816	ppbv	99
53) Toluene	6.959	91	330131	10.467	ppbv	100
54) 1,2-Dibromoethane	7.674	107	172654	11.166	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.943	131	144799	11.799	ppbv	98
57) Chlorobenzene	8.940	112	263529	11.120	ppbv	95
58) Ethyl Benzene	9.374	91	458900	11.085	ppbv	95
59) m/p-Xylene	9.568	91	756459m	23.219	ppbv	
60) o-Xylene	9.982	91	380653	11.715	ppbv	96
61) Styrene	9.888	104	157508	10.253	ppbv	96
62) Isopropylbenzene	10.555	105	547590	11.407	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.979	83	242285	11.726	ppbv	99
64) n-propylbenzene	11.002	120	145308	11.293	ppbv	94
65) tert-Butylbenzene	11.545	119	480384	11.028	ppbv	96
66) Benzyl Chloride	11.626	91	51799	9.238	ppbv	100
67) sec-Butylbenzene	11.782	105	694122	11.334	ppbv	98
69) p-Isopropyltoluene	11.937	119	576427	11.239	ppbv	98
70) n-Butylbenzene	12.293	91	593718	11.728	ppbv	98
71) 2-Chlorotoluene	10.914	91	414838	11.330	ppbv	97
72) 4-Ethyltoluene	11.138	105	468085	11.555	ppbv	98
73) 1,3,5-Trimethylbenzene	11.218	105	385574	11.500	ppbv	97
74) 1,2,4-Trimethylbenzene	11.552	105	431688	11.602	ppbv	94
75) 1,3-Dichlorobenzene	11.620	146	267433	11.446	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	266891	11.453	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	256891	11.328	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	184233	9.819	ppbv	99
79) Naphthalene	13.523	128	414690	11.824	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	191696	12.098	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	208526	10.651	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

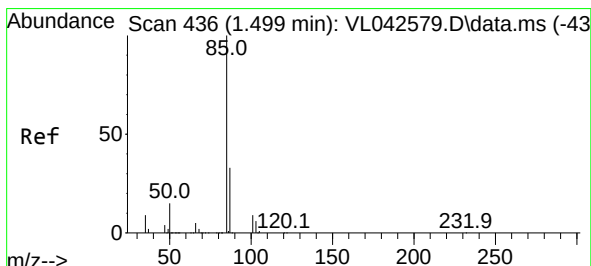
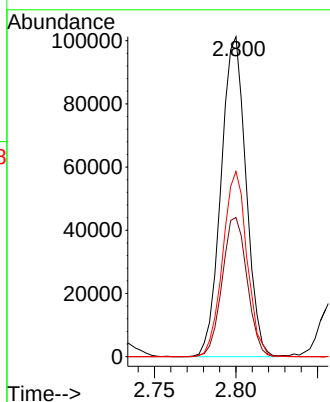
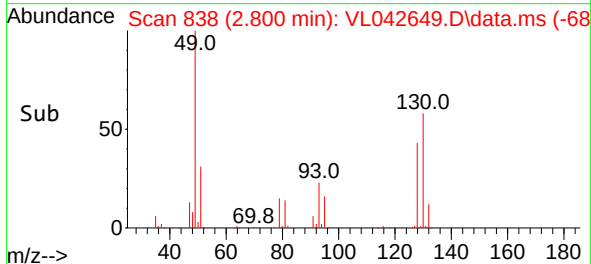
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01



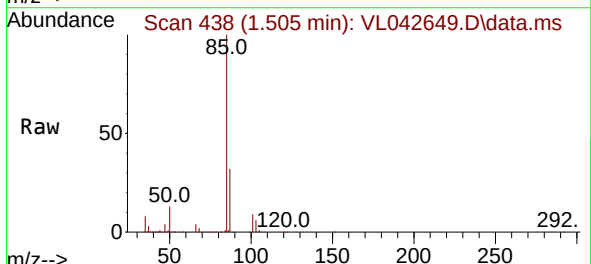
Tgt Ion: 49 Resp: 10759
Ion Ratio Lower Upper
49 100
128 43.5 24.2 72.6
130 56.4 30.4 91.2

Manual Integrations
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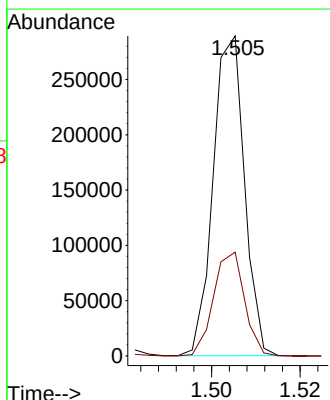
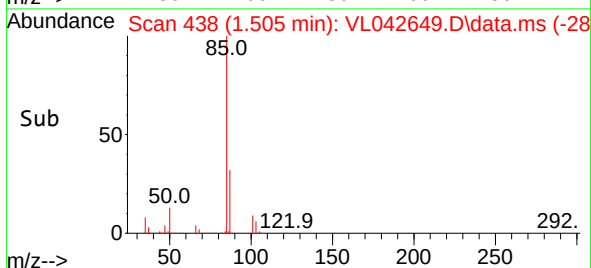
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

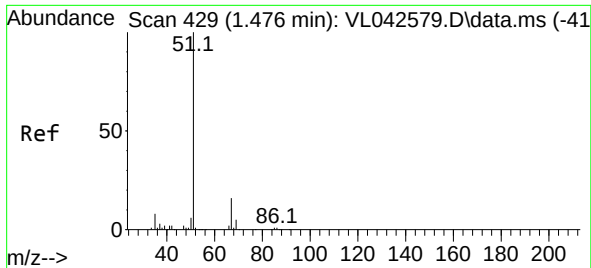


#2
Dichlorodifluoromethane
Concen: 10.745 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.006 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26



Tgt Ion: 85 Resp: 142090
Ion Ratio Lower Upper
85 100
87 32.5 26.6 39.8





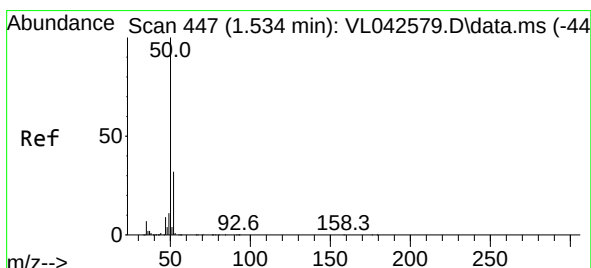
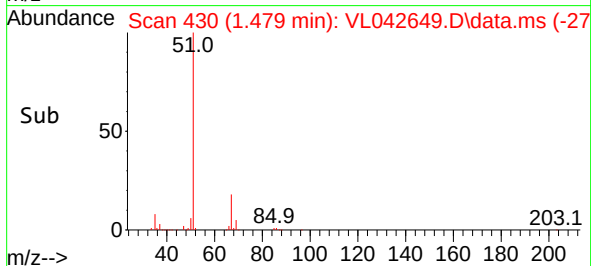
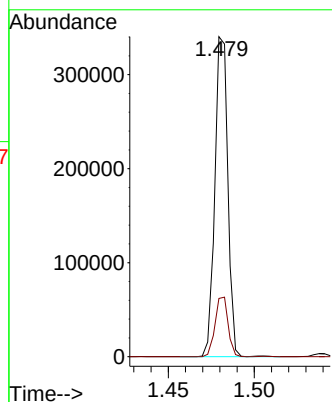
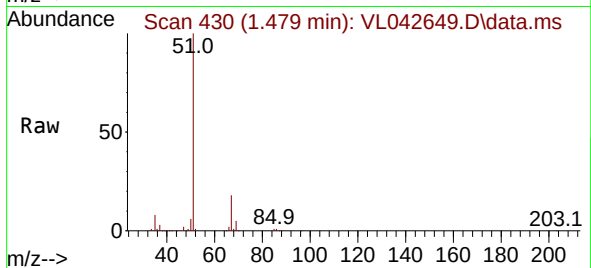
#3
Chlorodifluoromethane
Concen: 9.778 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion: 51 Resp: 17808
Ion Ratio Lower Upper
51 100
67 18.8 13.4 20.2

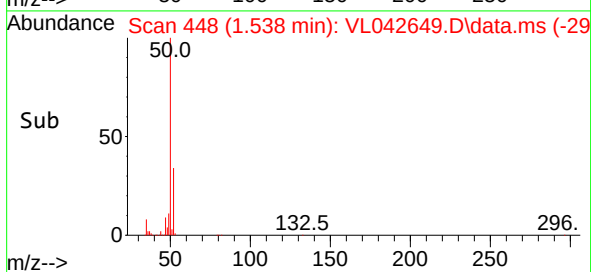
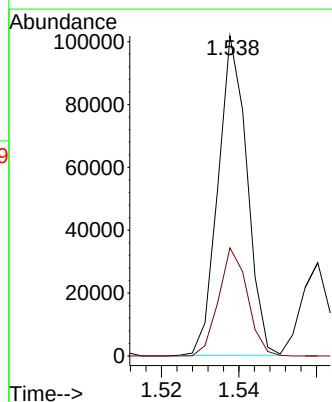
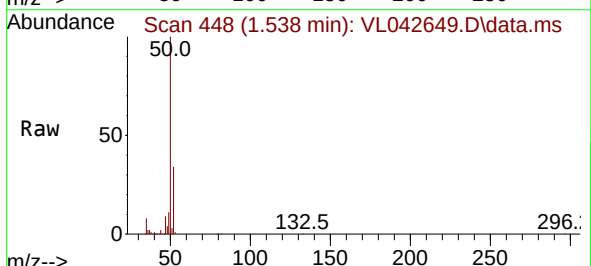
Manual Integrations
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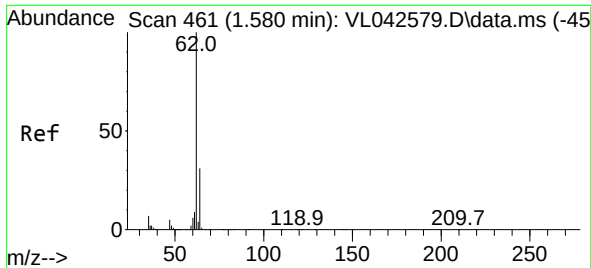
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#4
Chloromethane
Concen: 10.054 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 50 Resp: 52647
Ion Ratio Lower Upper
50 100
52 33.9 25.8 38.6





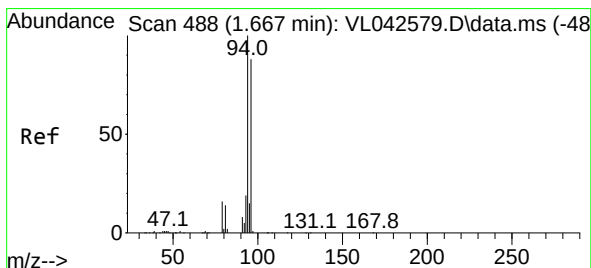
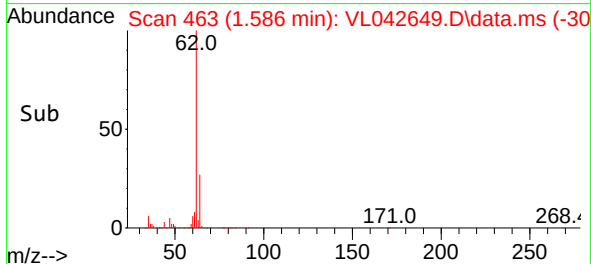
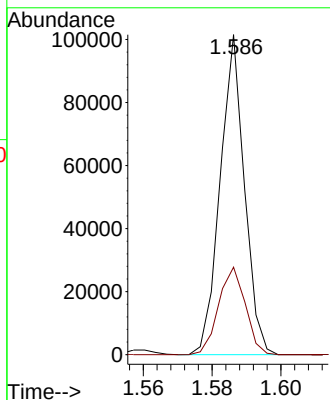
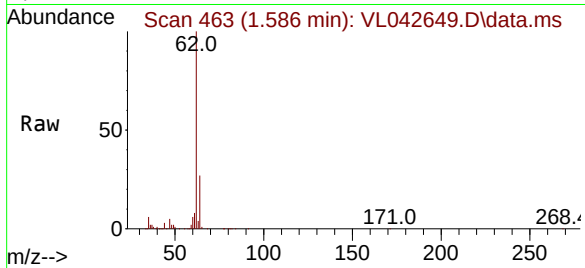
#5
 Vinyl Chloride
 Concen: 9.338 ppbv
 RT: 1.586 min Scan# 40
 Delta R.T. 0.006 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABS01

Tgt Ion: 62 Resp: 4981
 Ion Ratio Lower Upper
 62 100
 64 27.4 24.9 37.3

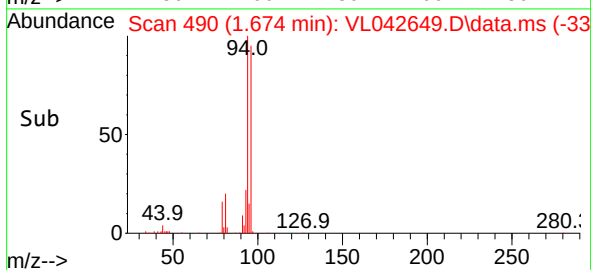
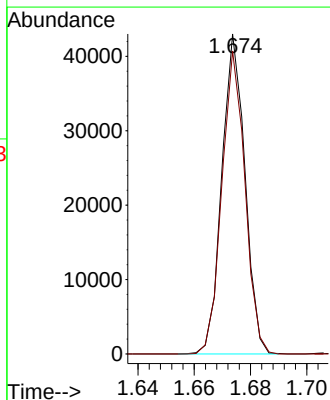
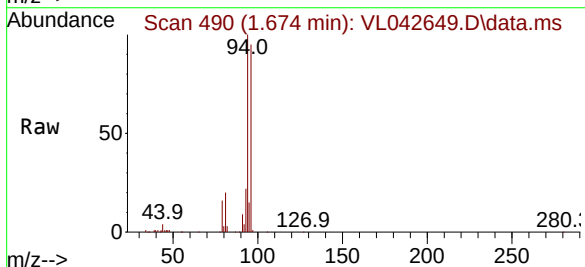
Manual Integrations
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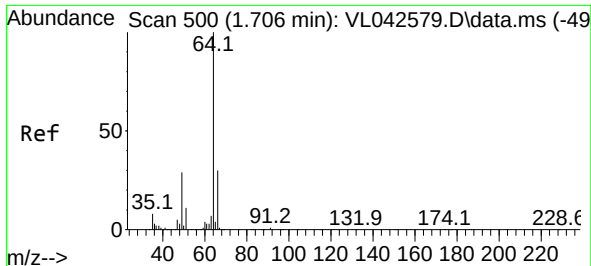
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



#6
 Bromomethane
 Concen: 9.435 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.007 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

Tgt Ion: 94 Resp: 24497
 Ion Ratio Lower Upper
 94 100
 96 94.7 70.7 106.1





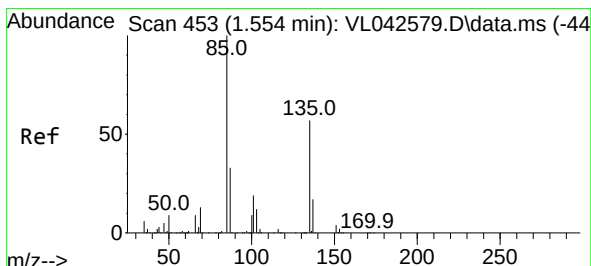
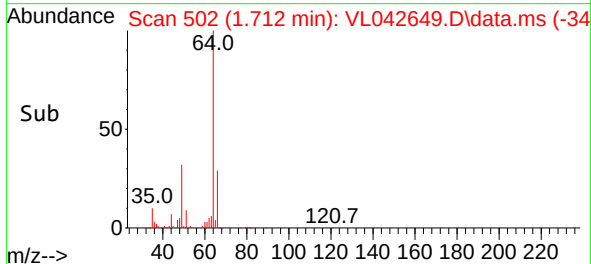
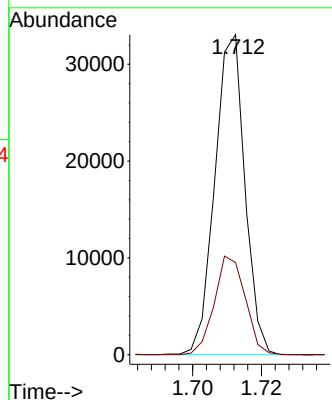
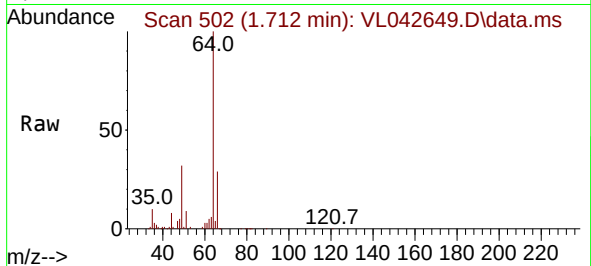
#7
Chloroethane
Concen: 9.661 ppbv
RT: 1.712 min Scan# 500
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion: 64 Resp: 20025
Ion Ratio Lower Upper
64 100
66 28.8 24.3 36.5

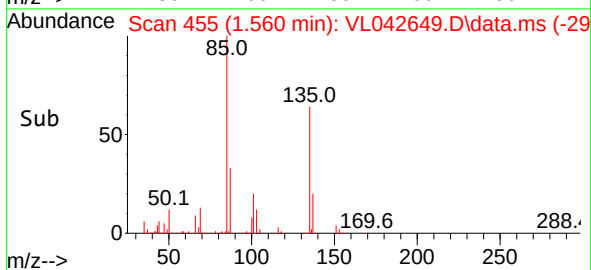
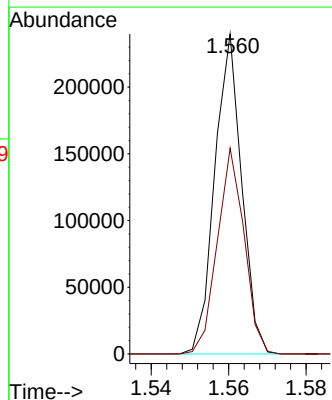
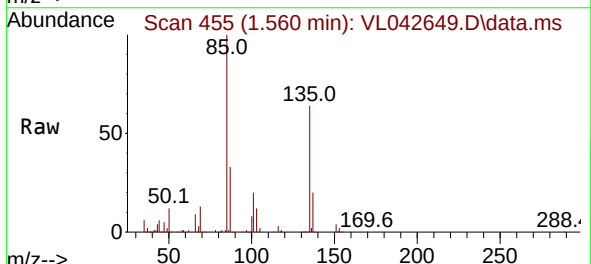
Manual Integrations
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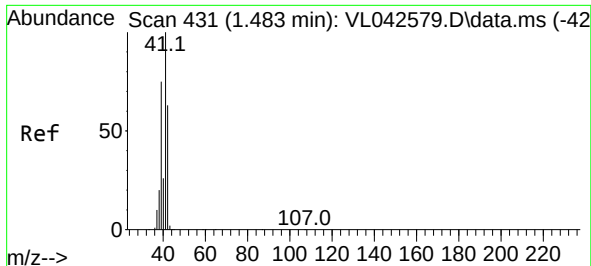
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#8
Dichlorotetrafluoroethane
Concen: 10.487 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 85 Resp: 115548
Ion Ratio Lower Upper
85 100
135 64.3 50.2 75.4





#9

Propene

Concen: 9.215 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

Instrument :

MSVOA_L

ClientSampleId :

VL0619ABS01

Tgt Ion: 41 Resp: 6758

Ion Ratio Lower Upper

41 100

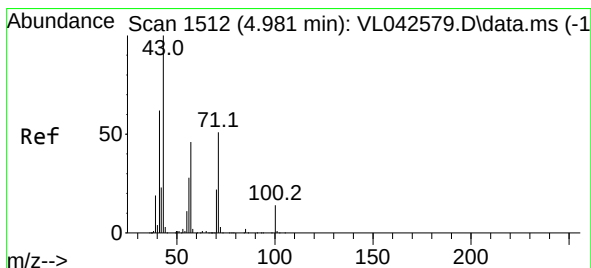
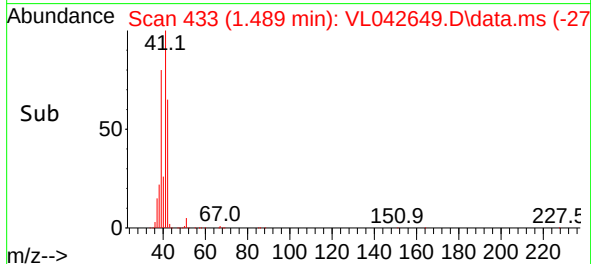
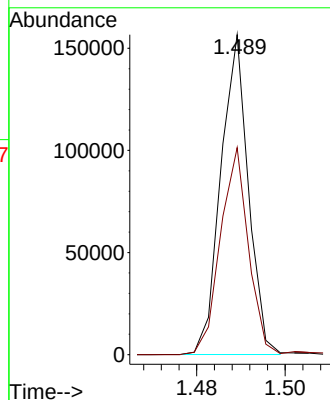
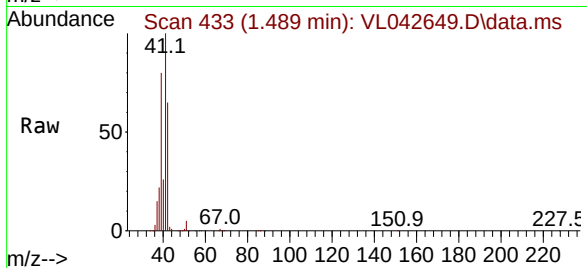
42 67.5 53.3 79.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#10

Heptane

Concen: 9.487 ppbv

RT: 5.004 min Scan# 1519

Delta R.T. 0.023 min

Lab File: VL042649.D

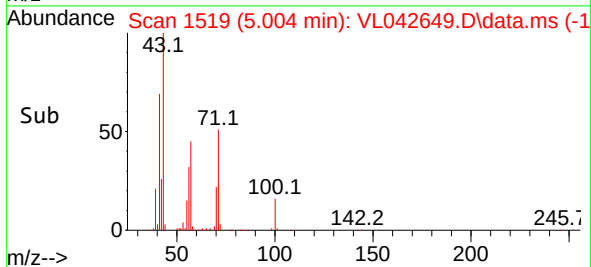
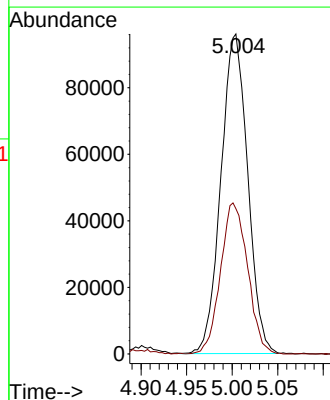
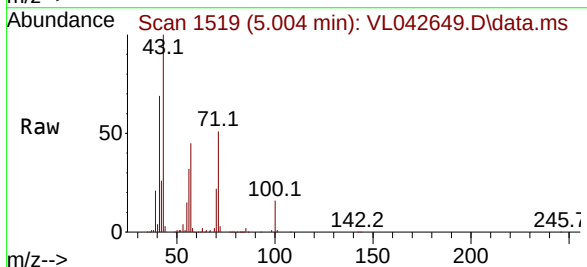
Acq: 19 Jun 2025 10:26

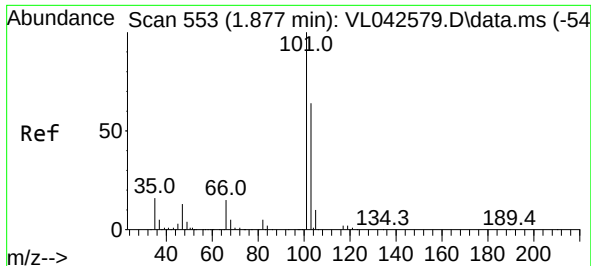
Tgt Ion: 43 Resp: 196137

Ion Ratio Lower Upper

43 100

57 48.0 38.9 58.3





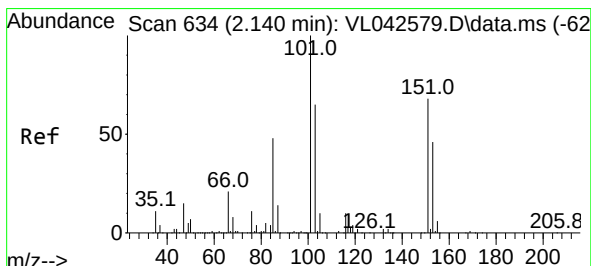
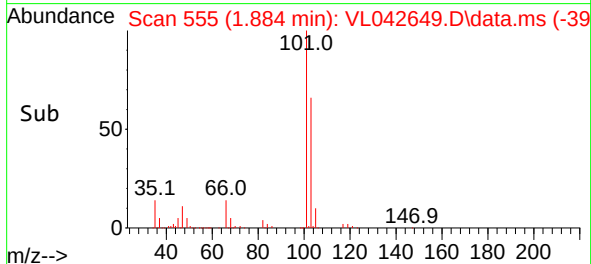
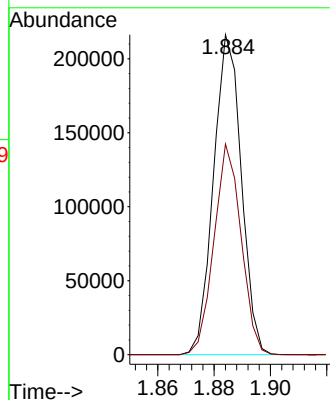
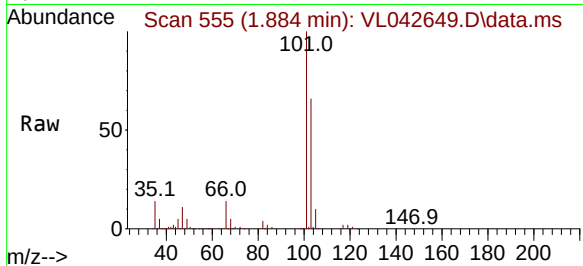
#11
Trichlorofluoromethane
Concen: 12.061 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion:101 Resp: 148395
Ion Ratio Lower Upper
101 100
103 65.9 51.5 77.3

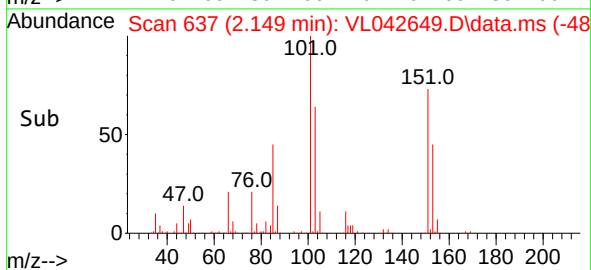
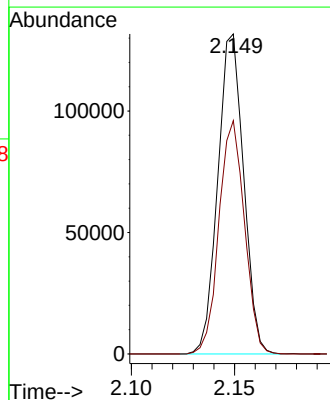
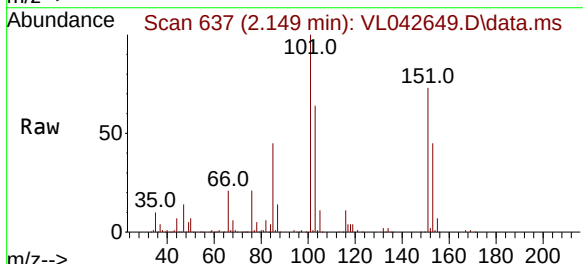
Manual Integrations
APPROVED

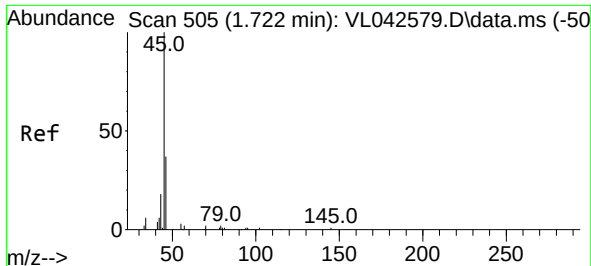
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.868 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion:101 Resp: 114662
Ion Ratio Lower Upper
101 100
151 72.0 55.3 82.9





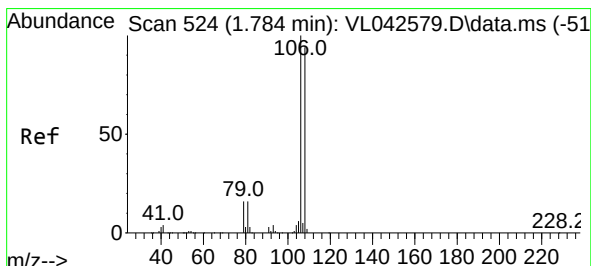
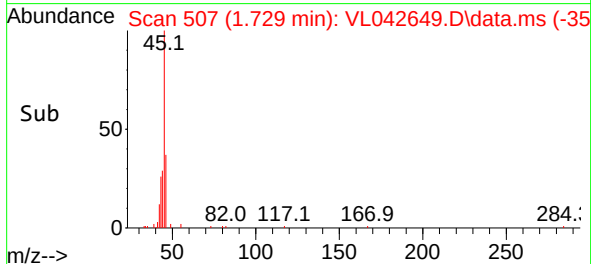
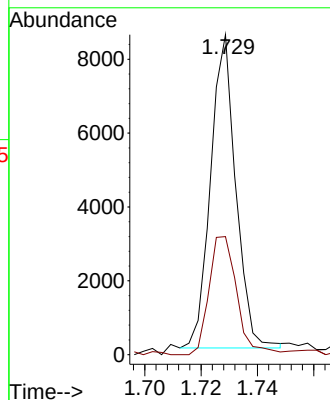
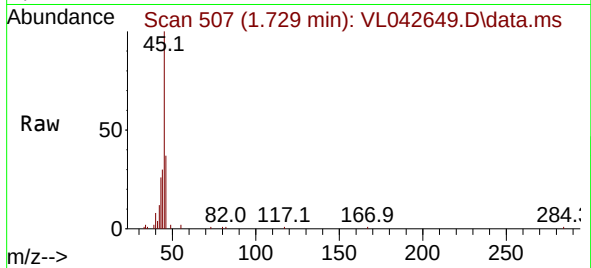
#13
Ethanol
Concen: 6.044 ppbv
RT: 1.729 min Scan# 505
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion: 45 Resp: 528
Ion Ratio Lower Upper
45 100
46 44.0 14.5 58.1

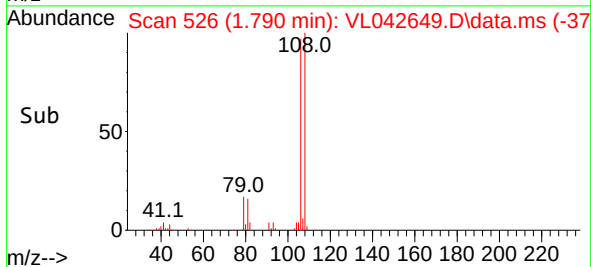
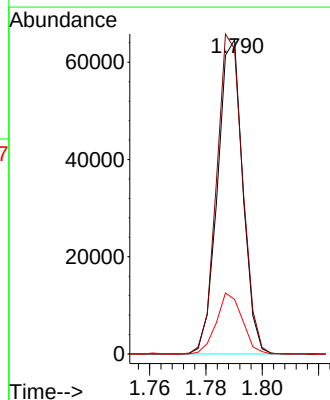
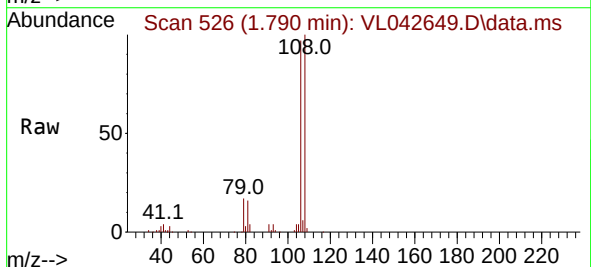
Manual Integrations
APPROVED

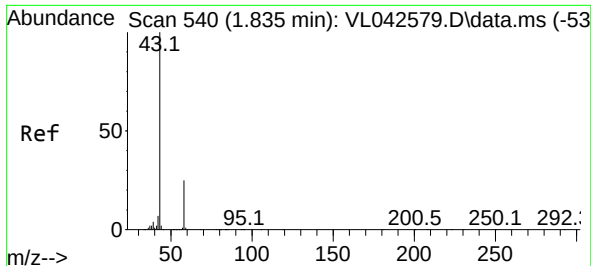
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#14
Bromoethene
Concen: 11.062 ppbv
RT: 1.790 min Scan# 526
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

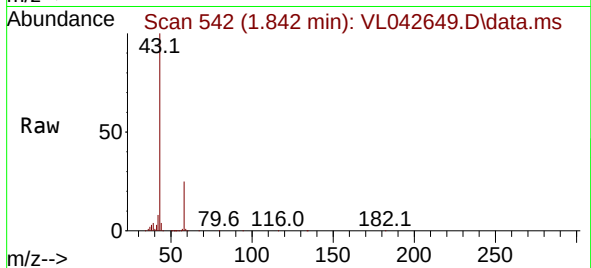
Tgt Ion:108 Resp: 40199
Ion Ratio Lower Upper
108 100
106 104.6 87.9 131.9
79 20.1 15.6 23.4





#15
Acetone
Concen: 9.145 ppbv
RT: 1.842 min Scan# 540
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

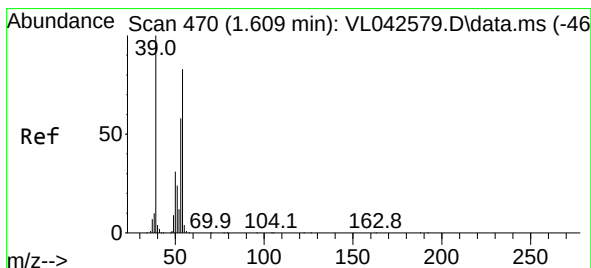
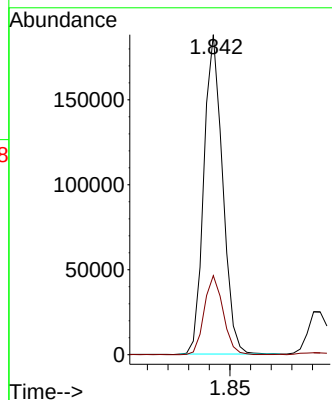
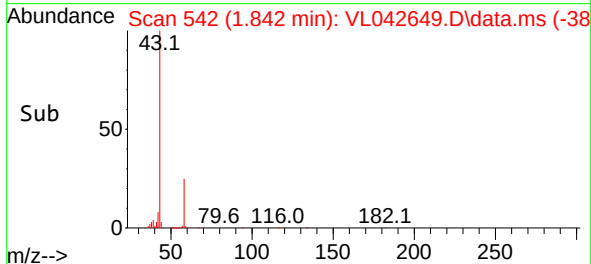
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01



Tgt Ion: 43 Resp: 118511
Ion Ratio Lower Upper
43 100
58 24.9 21.0 31.4

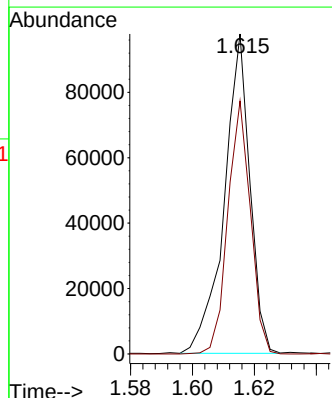
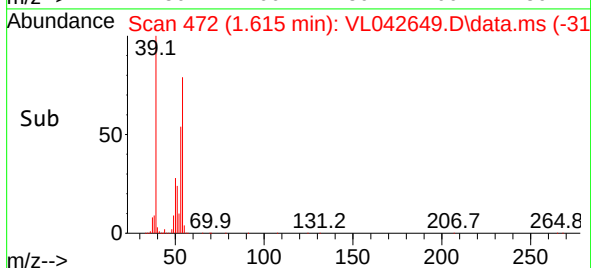
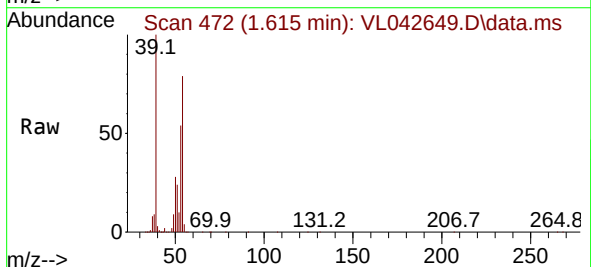
Manual Integrations
APPROVED

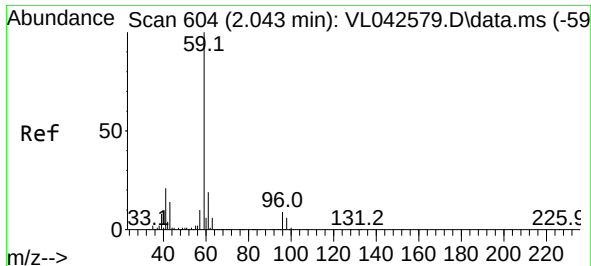
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#16
1,3-Butadiene
Concen: 9.162 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 39 Resp: 56246
Ion Ratio Lower Upper
39 100
54 70.1 57.9 86.9





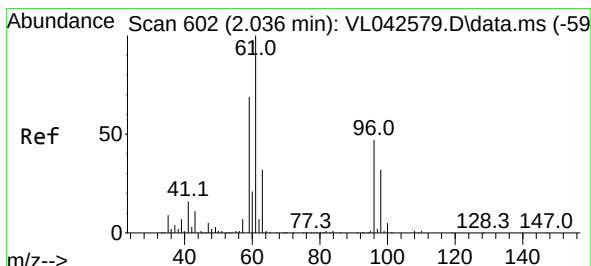
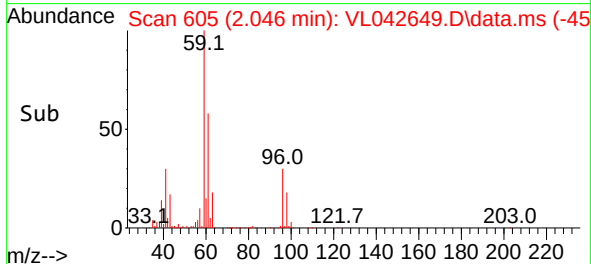
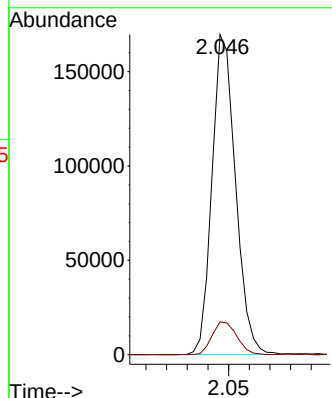
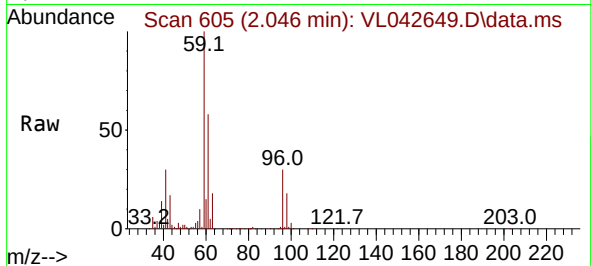
#17
tert-Butyl alcohol
Concen: 9.922 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.003 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion: 59 Resp: 13396
Ion Ratio Lower Upper
59 100
57 11.0 8.6 12.8

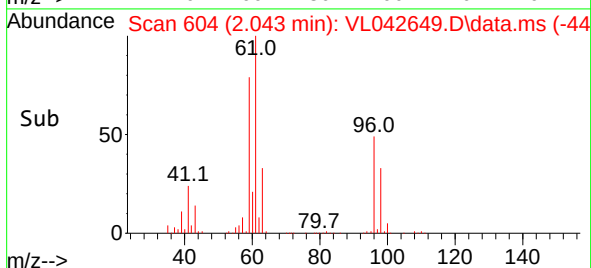
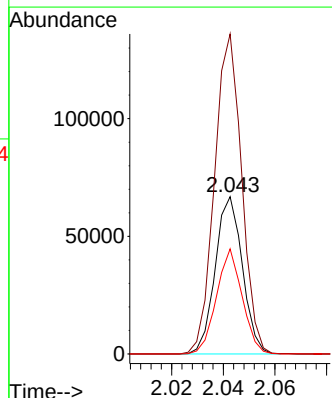
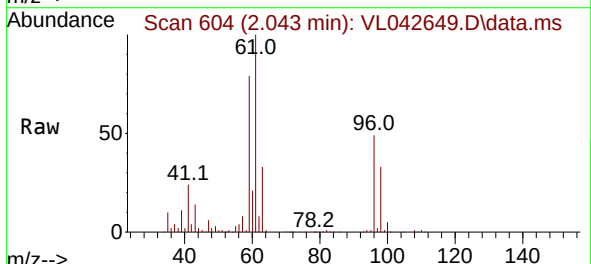
Manual Integrations
APPROVED

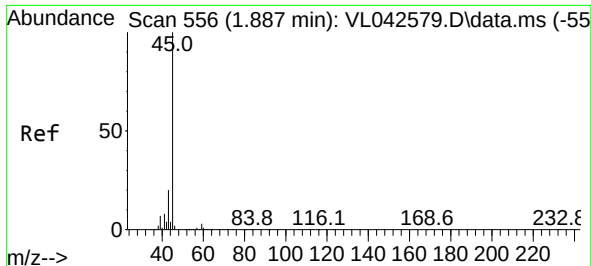
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#18
1,1-Dichloroethene
Concen: 10.908 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

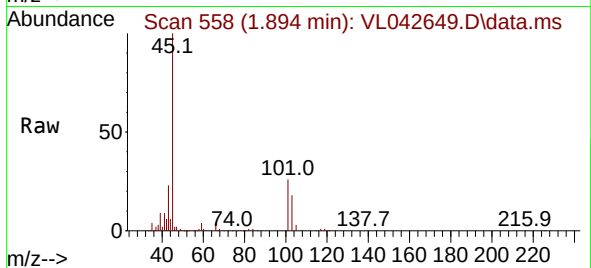
Tgt Ion: 96 Resp: 48846
Ion Ratio Lower Upper
96 100
61 203.4 171.1 256.7
98 66.8 54.4 81.6





#19
Isopropyl Alcohol
Concen: 9.772 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

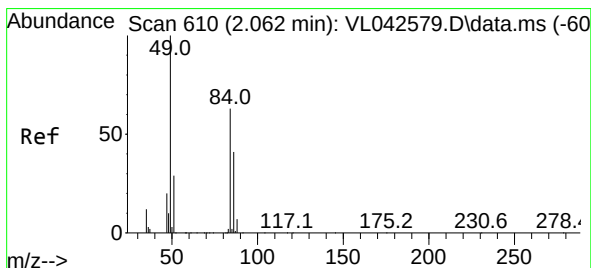
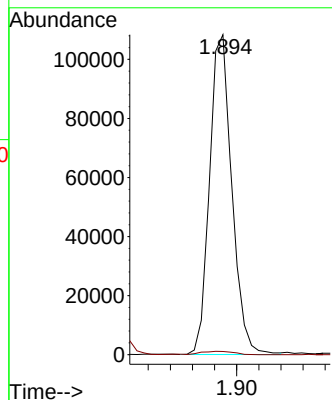
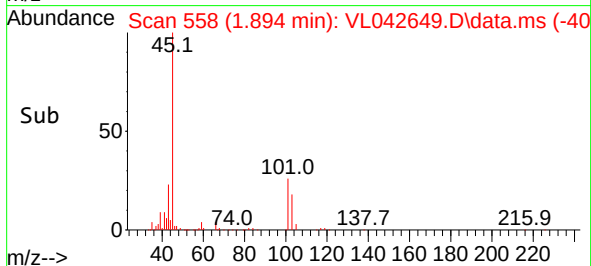
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01



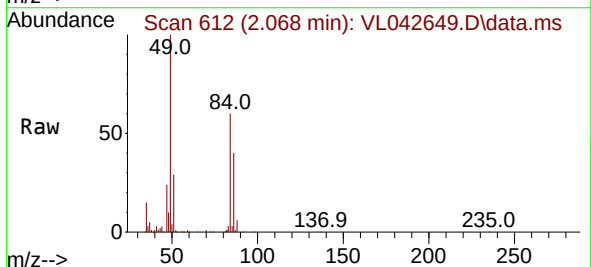
Tgt Ion: 45 Resp: 75712
Ion Ratio Lower Upper
45 100
58 39.1 29.4 44.2

Manual Integrations
APPROVED

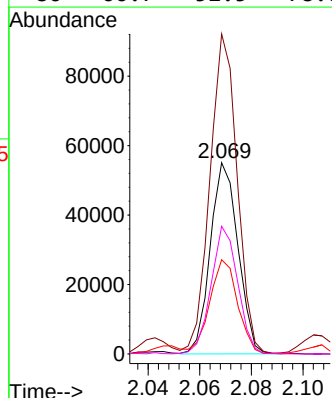
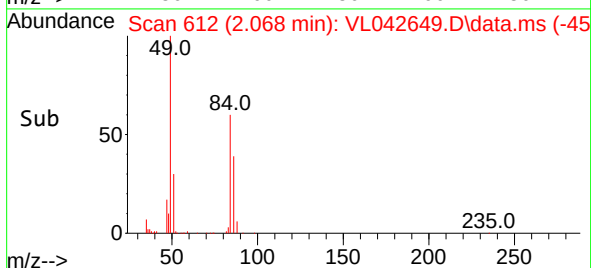
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

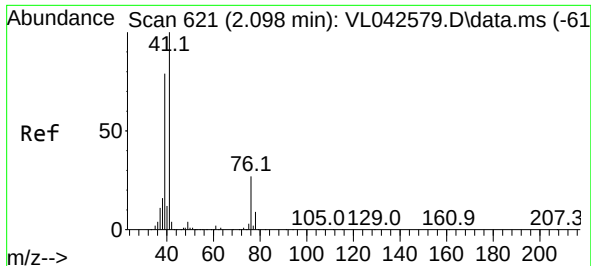


#20
Methylene Chloride
Concen: 9.587 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26



Tgt Ion: 84 Resp: 41003
Ion Ratio Lower Upper
84 100
49 167.0 128.8 193.2
51 48.9 38.6 57.8
86 66.7 52.5 78.7





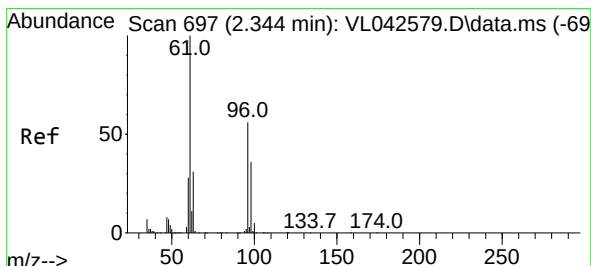
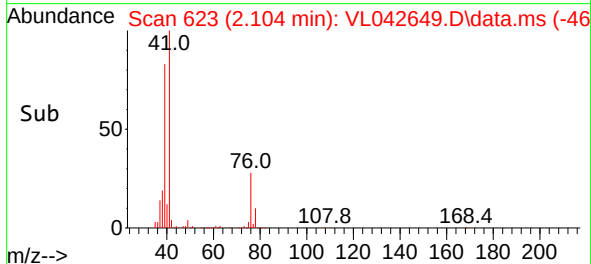
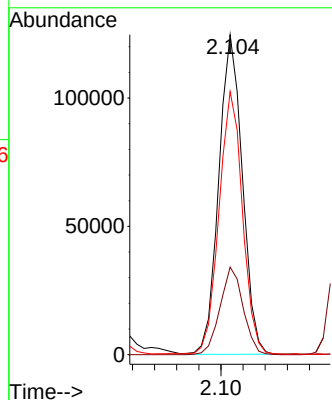
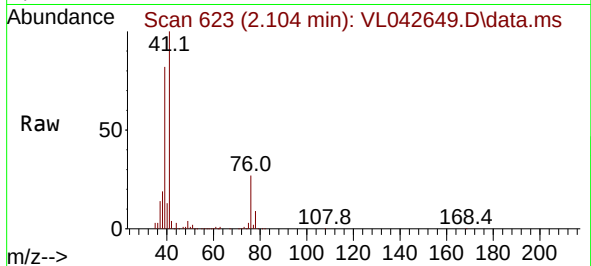
#21
 Allyl Chloride
 Concen: 10.047 ppbv
 RT: 2.104 min Scan# 61
 Delta R.T. 0.007 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABS01

Tgt Ion: 41 Resp: 9187
 Ion Ratio Lower Upper
 41 100
 76 26.9 21.2 31.8
 39 82.1 60.9 91.3

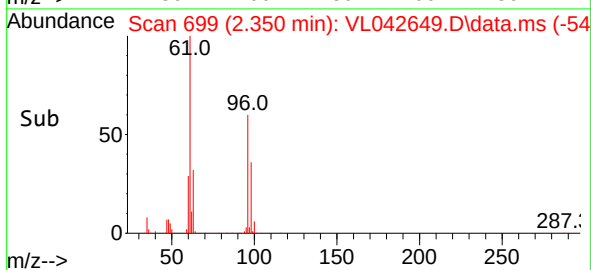
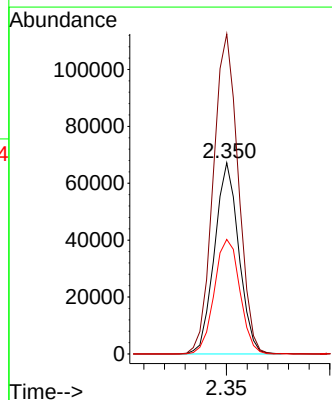
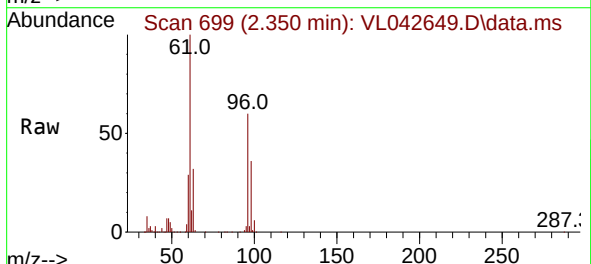
Manual Integrations
 APPROVED

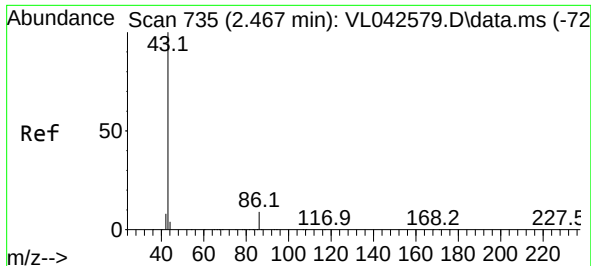
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



#22
 trans-1,2-Dichloroethene
 Concen: 10.978 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.007 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

Tgt Ion: 96 Resp: 54912
 Ion Ratio Lower Upper
 96 100
 61 167.2 142.6 214.0
 98 60.0 51.0 76.4





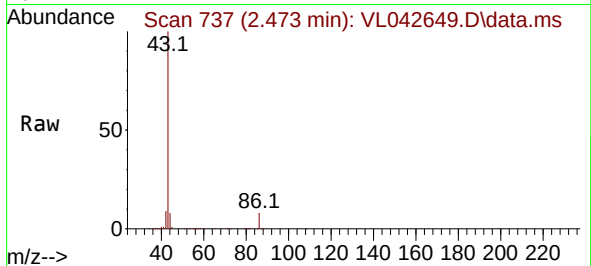
#23
 Vinyl Acetate
 Concen: 12.351 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. 0.007 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

Instrument :

MSVOA_L

ClientSampleId :

VL0619ABS01

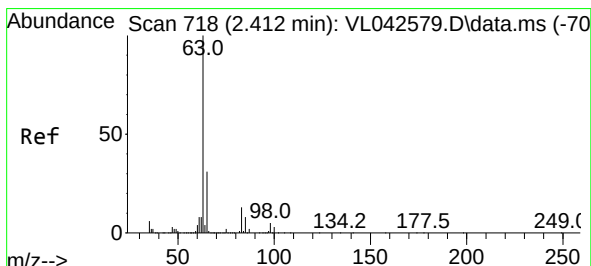
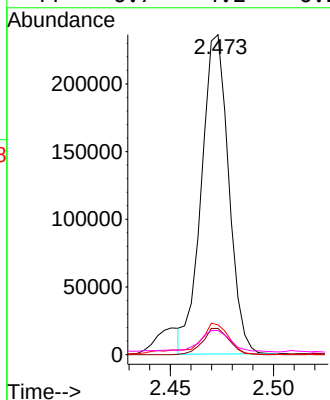
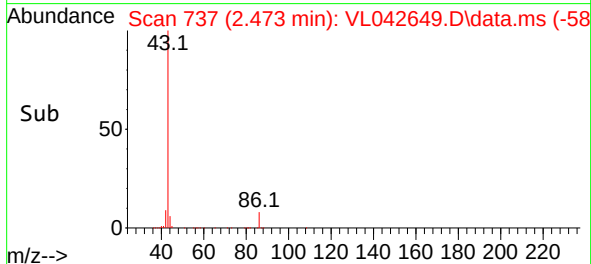


Tgt Ion: 43 Resp: 216370
 Ion Ratio Lower Upper
 43 100
 86 8.2 6.6 9.8
 42 9.2 7.0 10.4
 44 6.7 4.2 6.2#

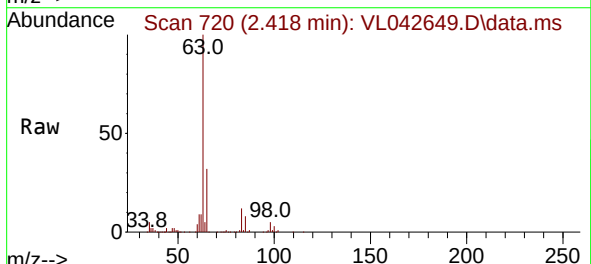
Manual Integrations

APPROVED

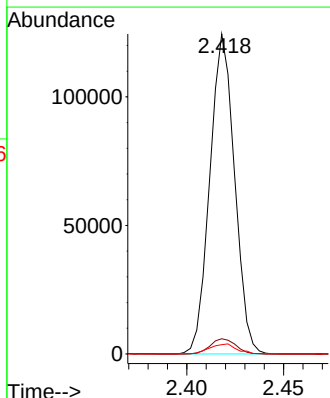
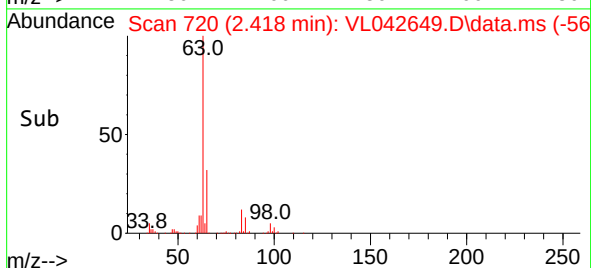
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

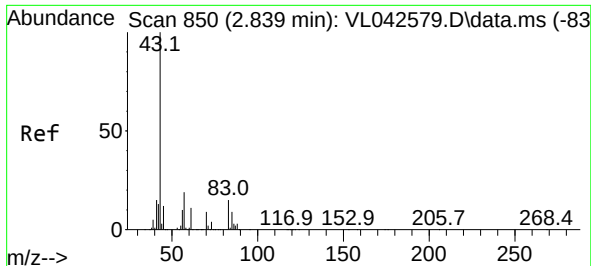


#24
 1,1-Dichloroethane
 Concen: 10.756 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.006 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26



Tgt Ion: 63 Resp: 110695
 Ion Ratio Lower Upper
 63 100
 98 4.7 2.4 7.1
 100 2.9 1.4 4.0





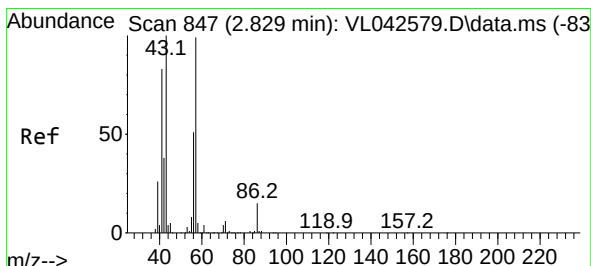
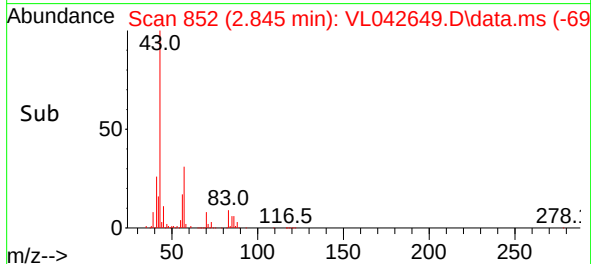
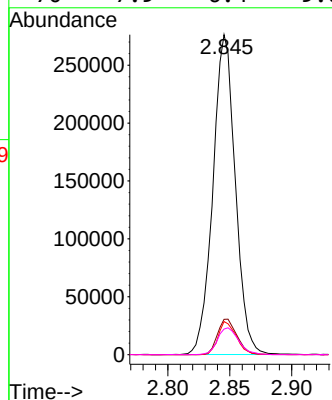
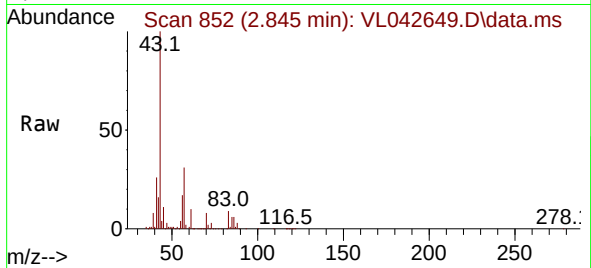
#25
Ethyl Acetate
Concen: 9.815 ppbv
RT: 2.845 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion: 43 Resp: 34811
Ion Ratio Lower Upper
43 100
45 9.8 8.2 12.2
61 8.5 7.1 10.7
70 7.9 6.4 9.6

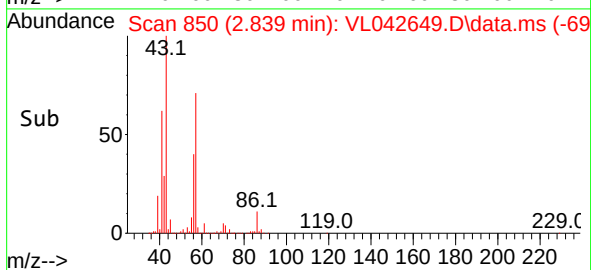
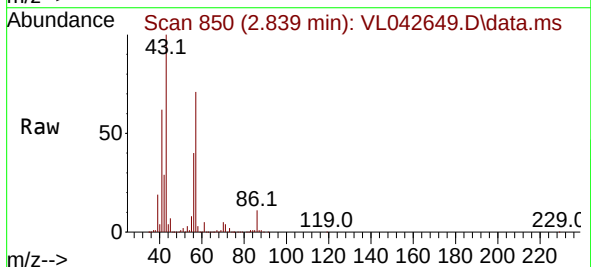
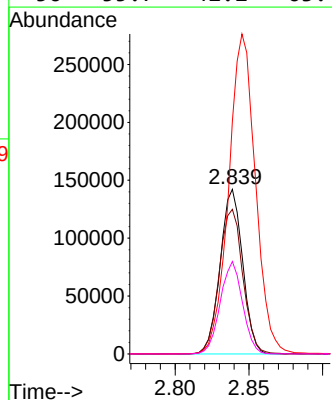
Manual Integrations
APPROVED

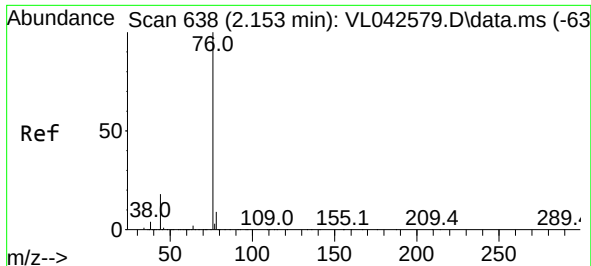
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#26
Hexane
Concen: 9.352 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

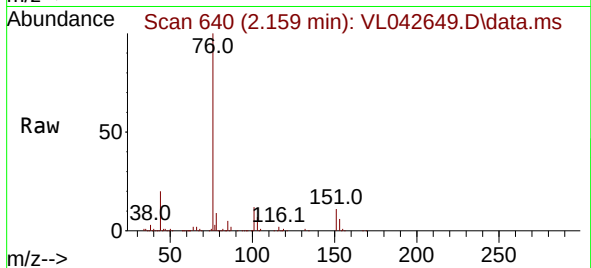
Tgt Ion: 57 Resp: 150708
Ion Ratio Lower Upper
57 100
41 92.9 70.6 106.0
43 232.0 181.1 271.7
56 55.7 42.2 63.4





#27
Carbon Disulfide
Concen: 10.818 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.006 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

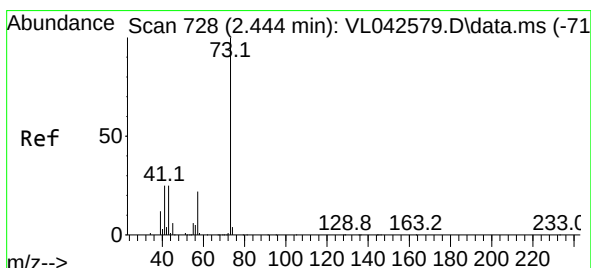
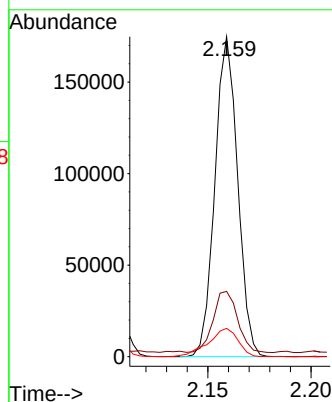
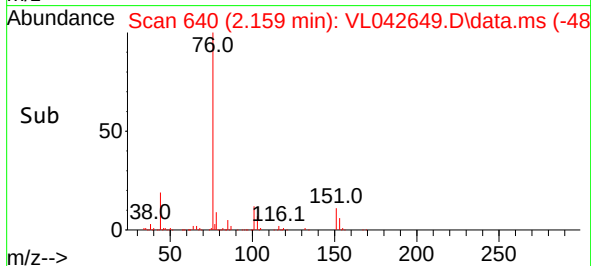
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01



Tgt Ion: 76 Resp: 13383
Ion Ratio Lower Upper
76 100
44 21.1 21.3 31.9
78 11.6 9.4 14.0

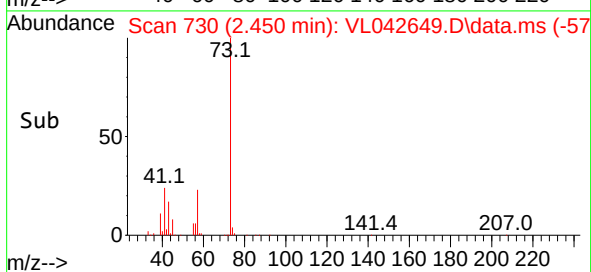
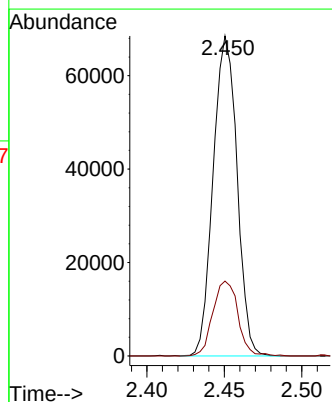
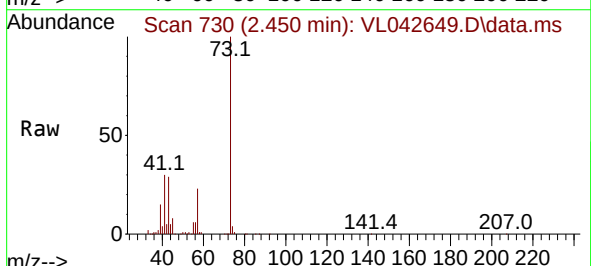
Manual Integrations
APPROVED

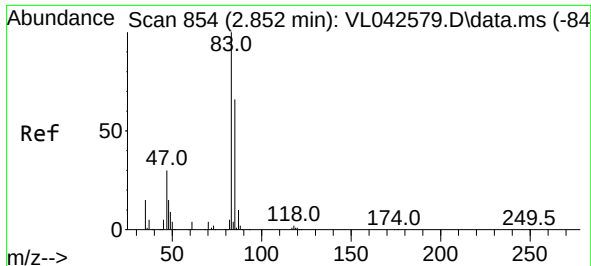
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#28
Methyl tert-Butyl Ether
Concen: 11.225 ppbv
RT: 2.450 min Scan# 730
Delta R.T. 0.006 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 73 Resp: 73405
Ion Ratio Lower Upper
73 100
57 24.6 19.9 29.9





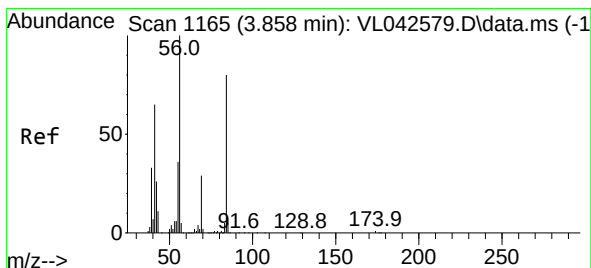
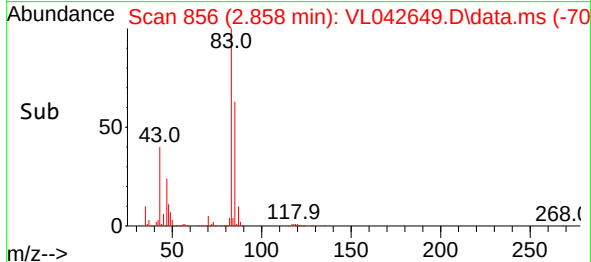
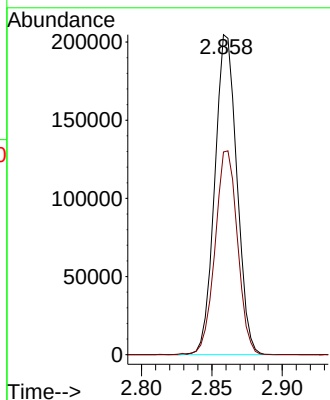
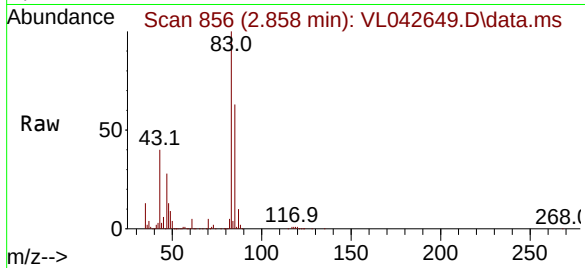
#29
Chloroform
Concen: 10.702 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.006 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion: 83 Resp: 224279
Ion Ratio Lower Upper
83 100
85 63.3 52.8 79.2

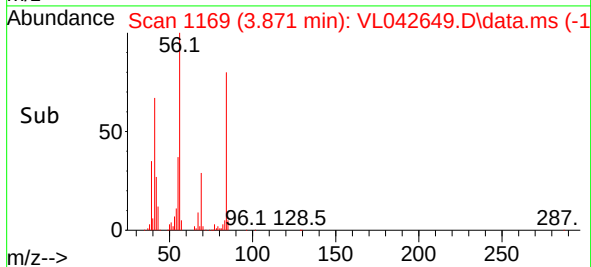
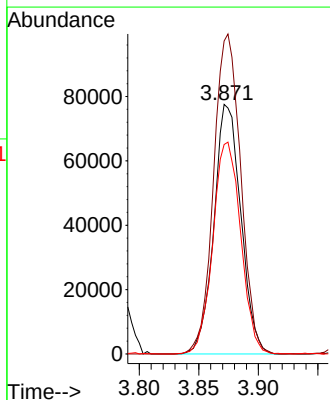
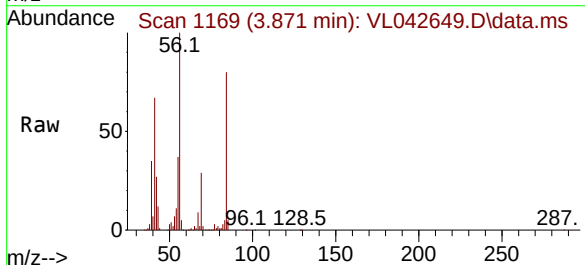
Manual Integrations
APPROVED

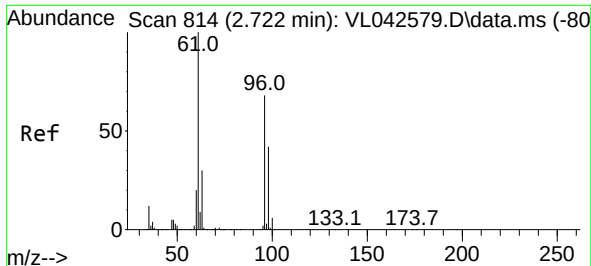
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#30
Cyclohexane
Concen: 9.127 ppbv
RT: 3.871 min Scan# 1169
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

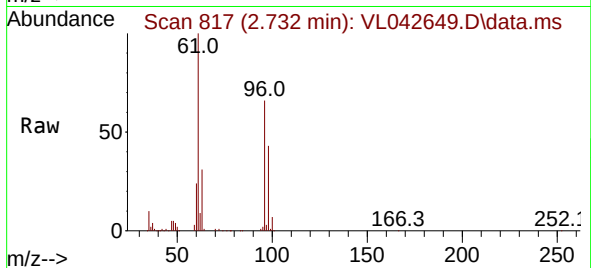
Tgt Ion: 84 Resp: 121943
Ion Ratio Lower Upper
84 100
56 128.9 103.7 155.5
41 87.7 65.1 97.7





#31
 cis-1,2-Dichloroethene
 Concen: 9.703 ppbv
 RT: 2.732 min Scan# 814
 Delta R.T. 0.010 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

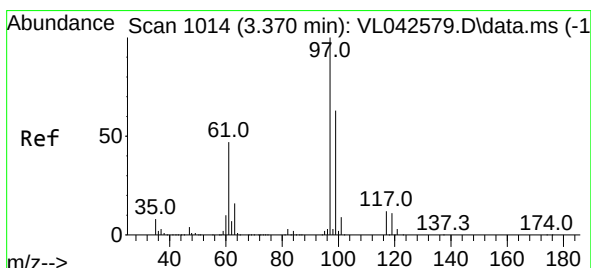
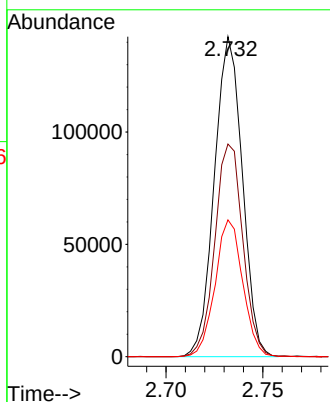
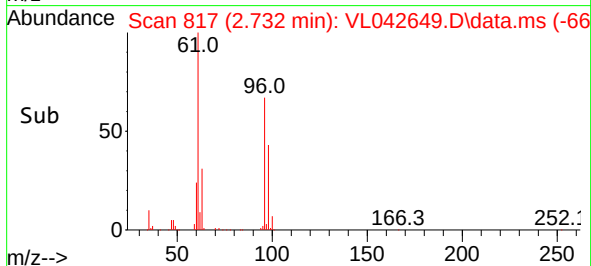
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABS01



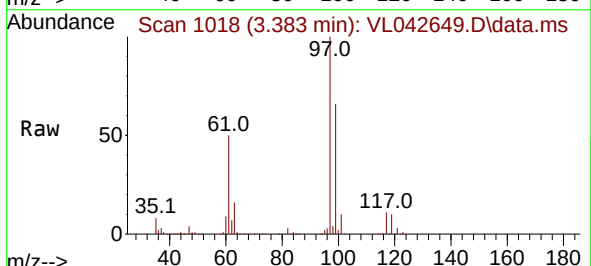
Tgt Ion: 61 Resp: 143034
 Ion Ratio Lower Upper
 61 100
 96 66.4 54.5 81.7
 98 42.7 33.4 50.2

Manual Integrations
 APPROVED

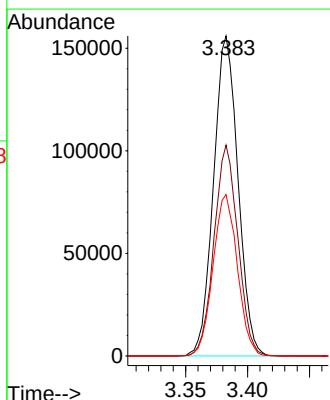
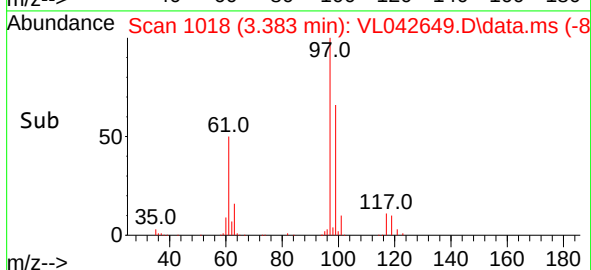
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

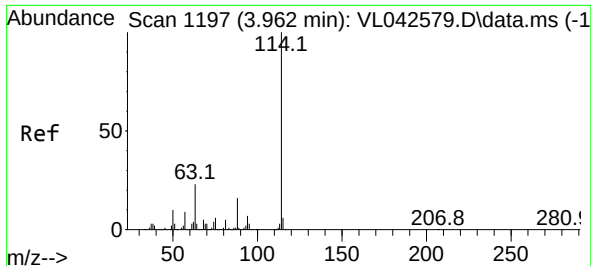


#32
 1,1,1-Trichloroethane
 Concen: 10.022 ppbv
 RT: 3.383 min Scan# 1018
 Delta R.T. 0.013 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26



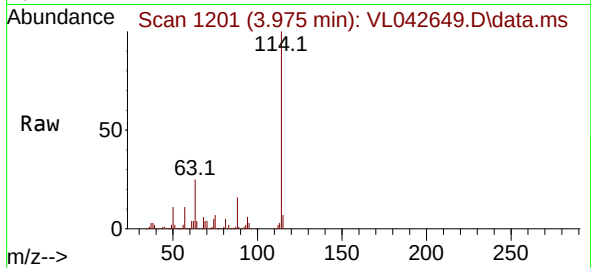
Tgt Ion: 97 Resp: 214588
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.0 76.6
 61 50.4 39.4 59.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1197
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

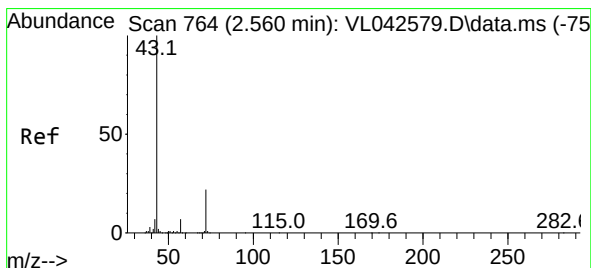
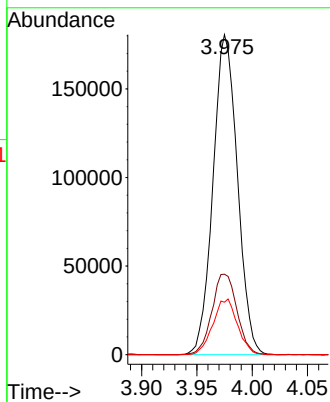
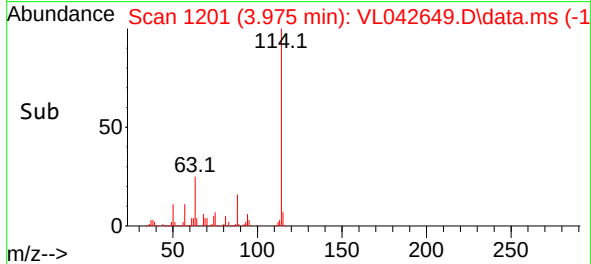
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01



Tgt Ion:114 Resp: 277111
Ion Ratio Lower Upper
114 100
63 25.9 19.0 28.6
88 17.5 13.6 20.4

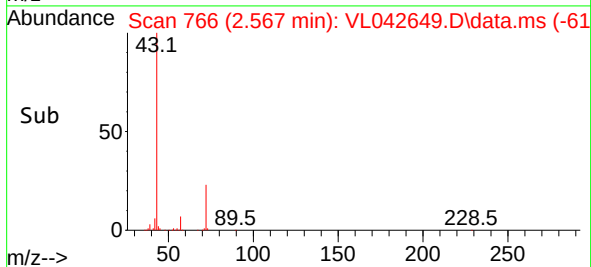
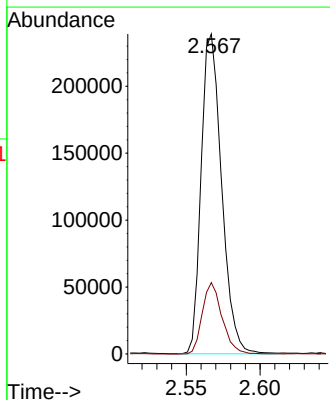
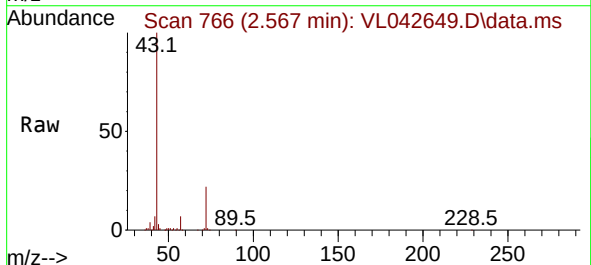
Manual Integrations
APPROVED

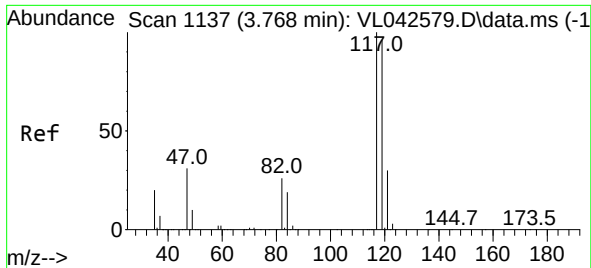
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#34
2-Butanone
Concen: 11.663 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 43 Resp: 230485
Ion Ratio Lower Upper
43 100
72 21.6 17.7 26.5





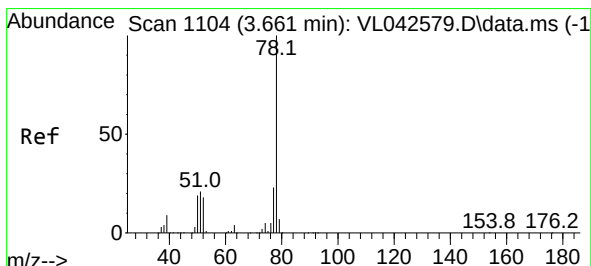
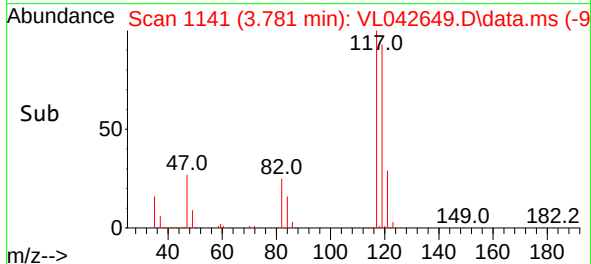
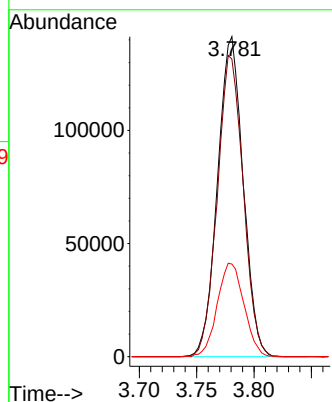
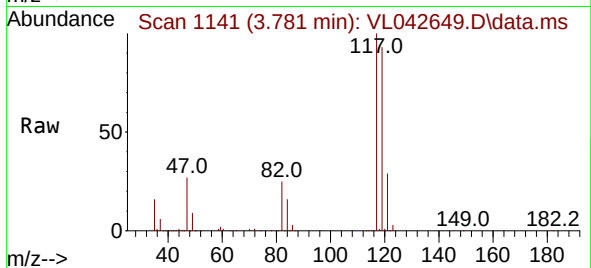
#35
Carbon Tetrachloride
Concen: 12.000 ppbv
RT: 3.781 min Scan# 1137
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion:117 Resp: 219519
Ion Ratio Lower Upper
117 100
119 93.0 76.8 115.2
121 29.0 24.3 36.5

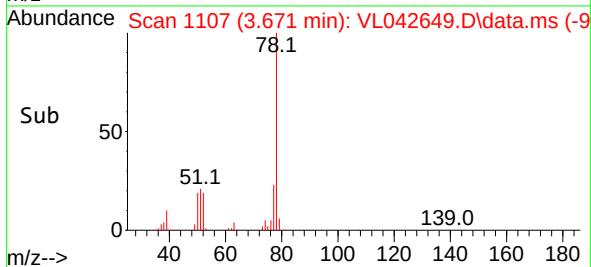
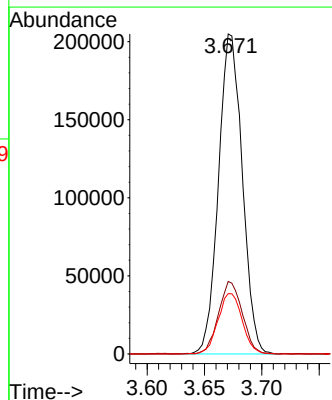
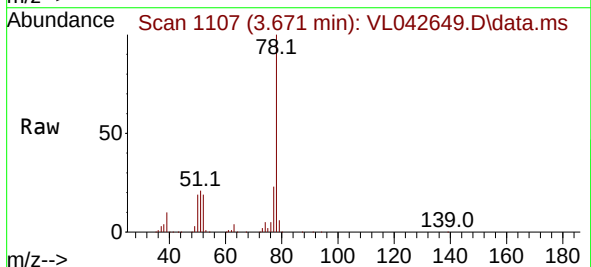
Manual Integrations
APPROVED

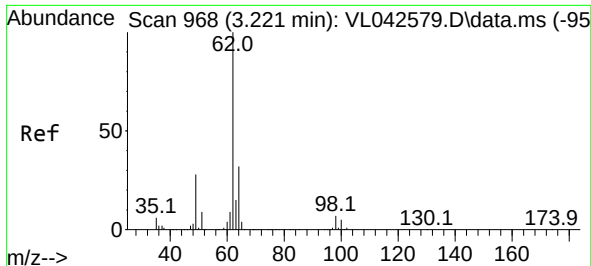
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#36
Benzene
Concen: 10.816 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

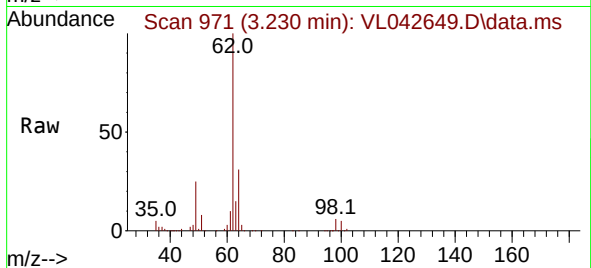
Tgt Ion: 78 Resp: 295149
Ion Ratio Lower Upper
78 100
77 22.6 18.2 27.2
50 18.8 15.2 22.8





#37
1,2-Dichloroethane
Concen: 12.625 ppbv
RT: 3.230 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

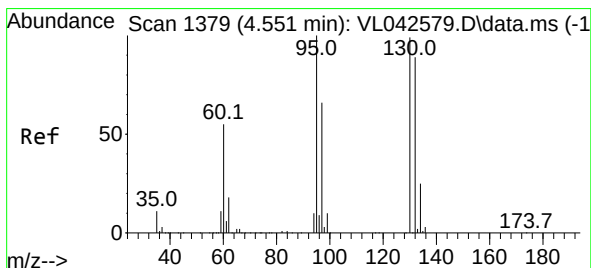
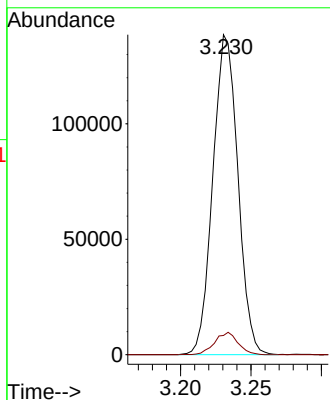
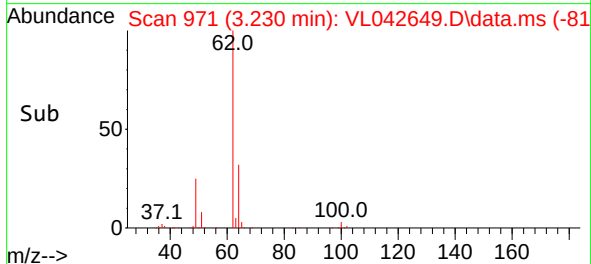
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01



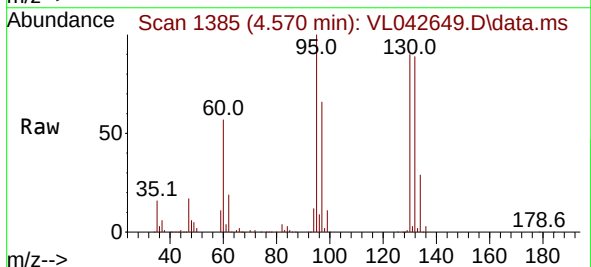
Tgt Ion: 62 Resp: 171230
Ion Ratio Lower Upper
62 100
98 6.6 6.1 9.1

Manual Integrations
APPROVED

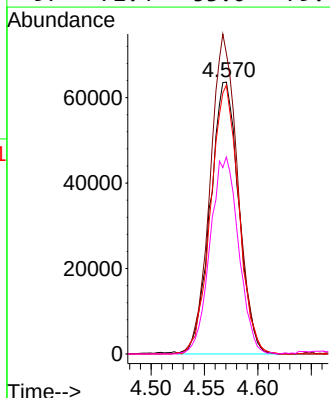
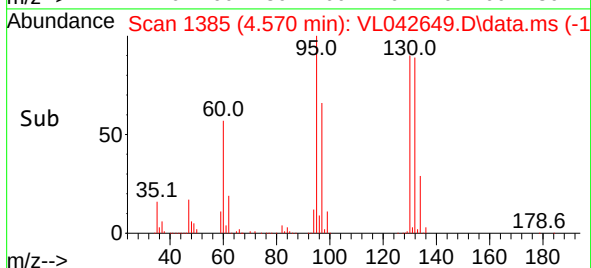
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

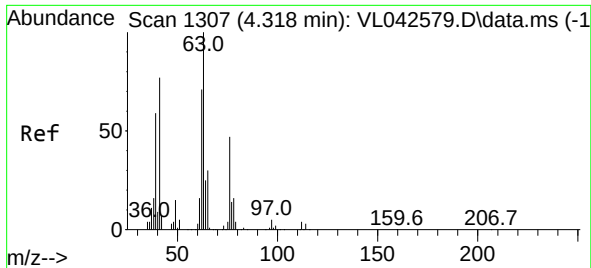


#38
Trichloroethene
Concen: 10.150 ppbv
RT: 4.570 min Scan# 1385
Delta R.T. 0.019 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26



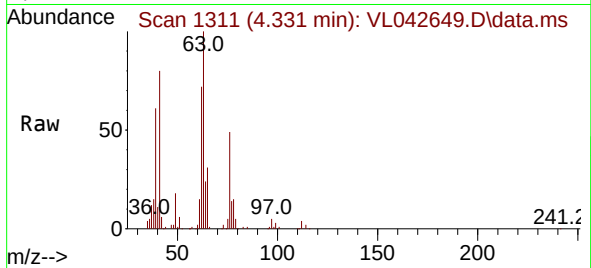
Tgt Ion:130 Resp: 117728
Ion Ratio Lower Upper
130 100
95 110.5 80.6 121.0
132 98.7 71.8 107.6
97 72.4 53.0 79.4





#39
 1,2-Dichloropropane
 Concen: 10.949 ppbv
 RT: 4.331 min Scan# 110494
 Delta R.T. 0.013 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

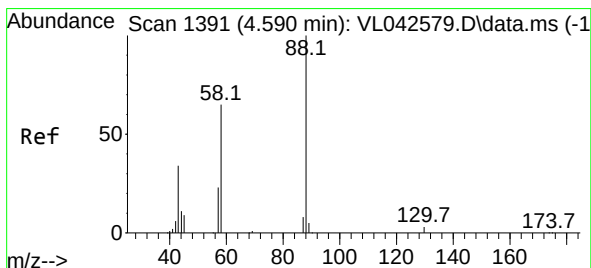
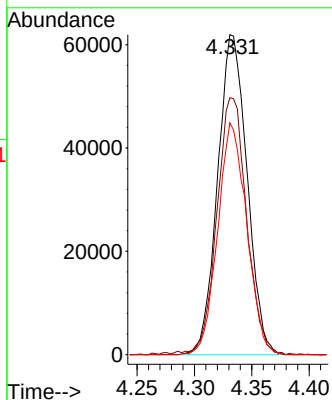
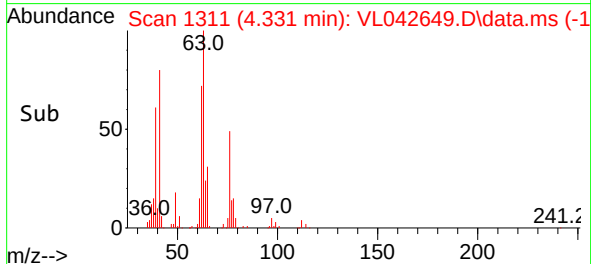
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABS01



Tgt Ion: 63 Resp: 110494
 Ion Ratio Lower Upper
 63 100
 41 80.0 61.8 92.6
 62 72.5 56.6 85.0

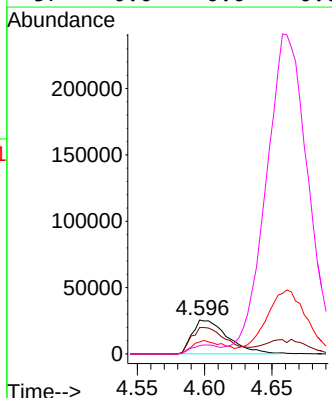
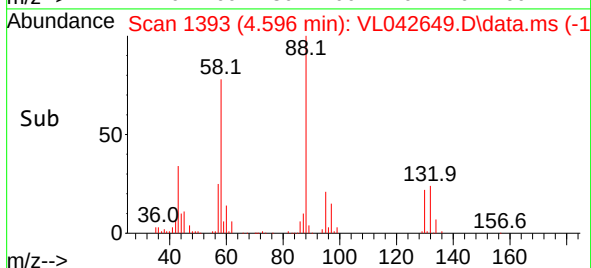
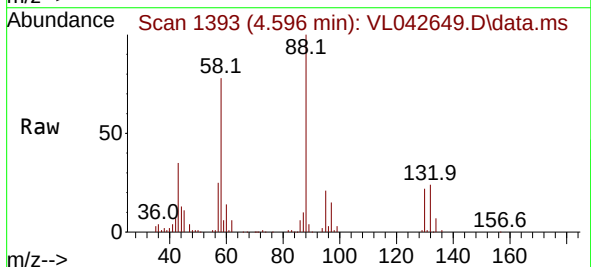
Manual Integrations
 APPROVED

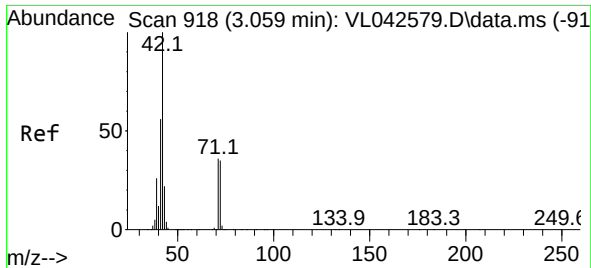
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



#40
 1,4-Dioxane
 Concen: 10.297 ppbv
 RT: 4.596 min Scan# 1393
 Delta R.T. 0.007 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

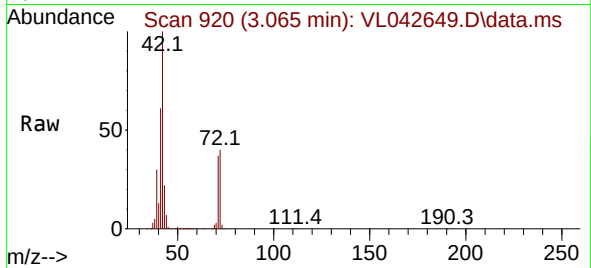
Tgt Ion: 88 Resp: 46497
 Ion Ratio Lower Upper
 88 100
 58 76.2 55.8 83.8
 43 40.4 24.8 37.2#
 57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 10.599 ppbv
RT: 3.065 min Scan# 918
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

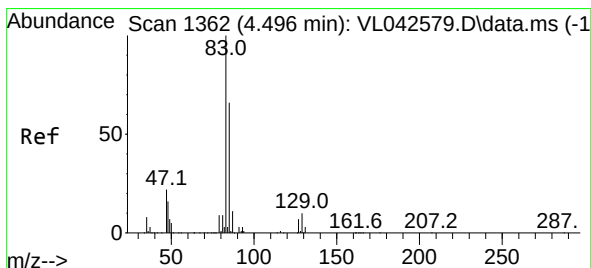
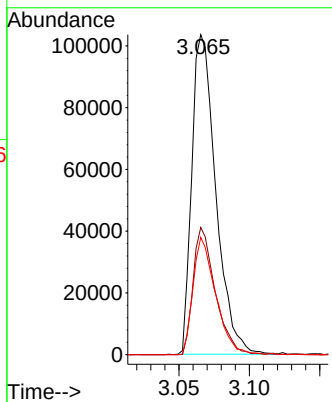
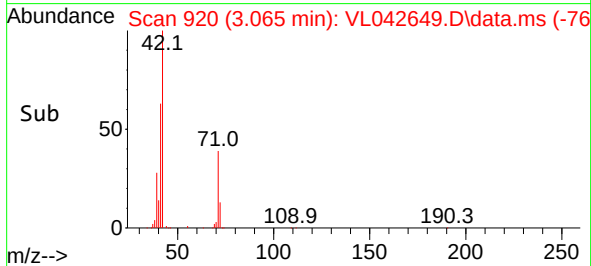
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01



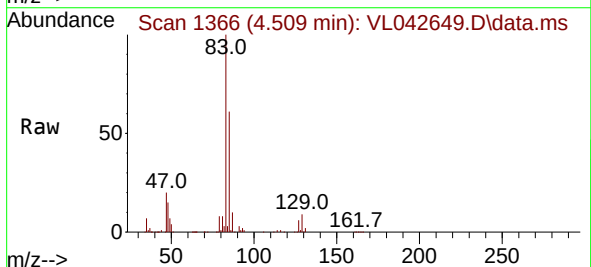
Tgt Ion: 42 Resp: 122612
Ion Ratio Lower Upper
42 100
72 37.0 28.9 43.3
71 34.7 28.5 42.7

Manual Integrations
APPROVED

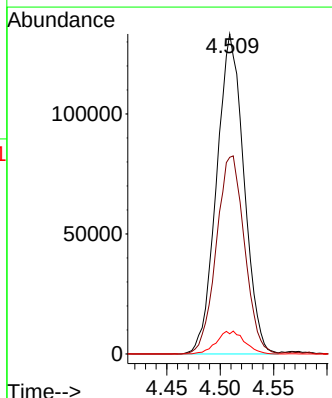
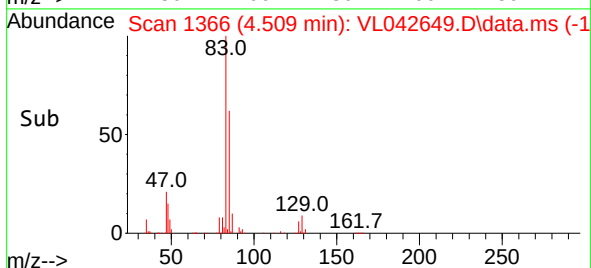
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

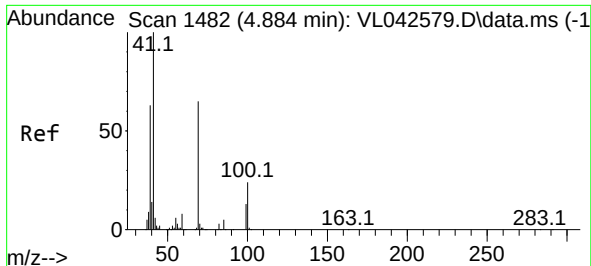


#42
Bromodichloromethane
Concen: 12.314 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26



Tgt Ion: 83 Resp: 237205
Ion Ratio Lower Upper
83 100
85 61.4 52.7 79.1
127 6.3 5.8 8.6





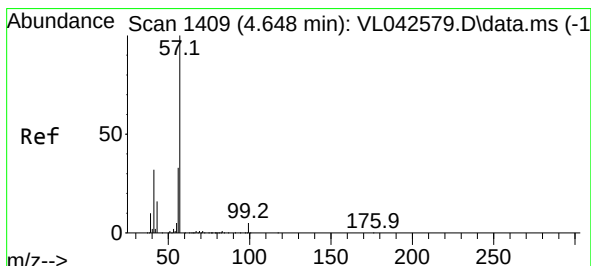
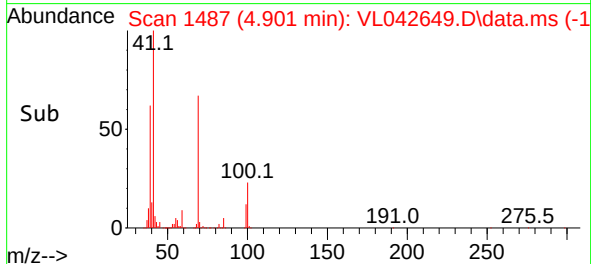
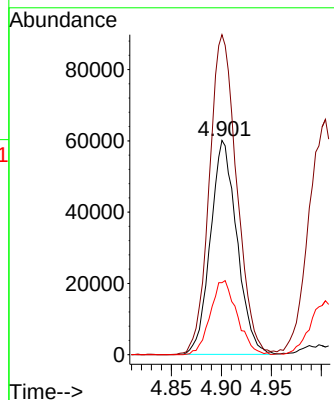
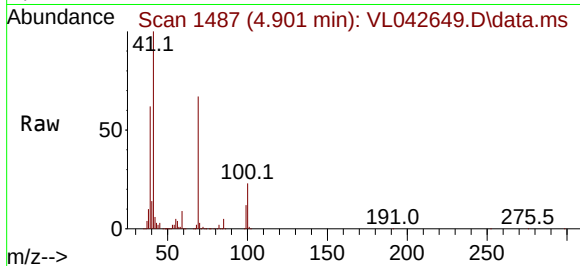
#43
Methyl Methacrylate
Concen: 10.443 ppbv
RT: 4.901 min Scan# 1412
Delta R.T. 0.016 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion: 69 Resp: 110610
Ion Ratio Lower Upper
69 100
41 155.2 124.6 187.0
100 35.2 29.9 44.9

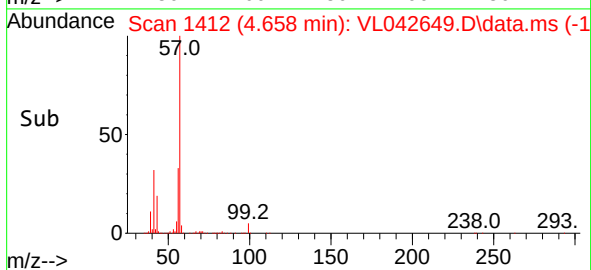
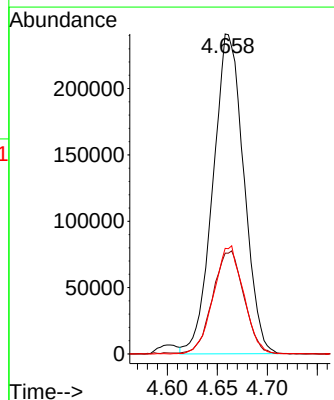
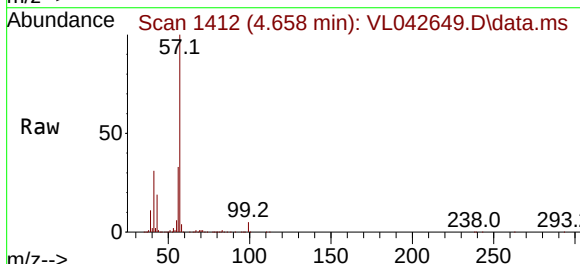
Manual Integrations
APPROVED

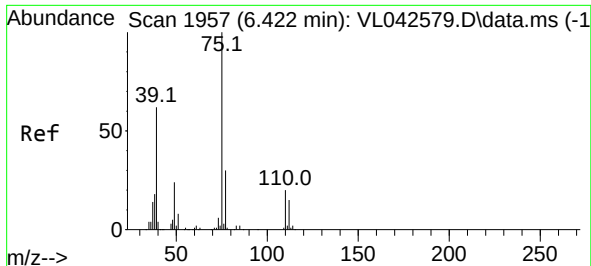
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#44
2,2,4-Trimethylpentane
Concen: 11.070 ppbv
RT: 4.658 min Scan# 1412
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

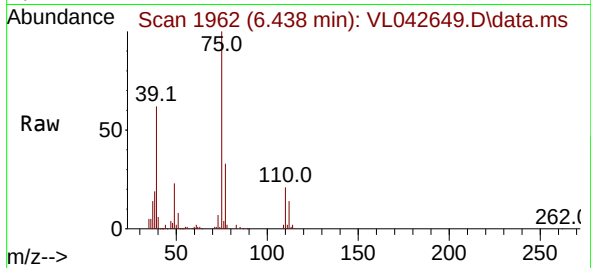
Tgt Ion: 57 Resp: 516730
Ion Ratio Lower Upper
57 100
41 33.2 26.1 39.1
56 33.1 25.9 38.9





#45
t-1,3-Dichloropropene
Concen: 10.454 ppbv
RT: 6.438 min Scan# 1957
Delta R.T. 0.016 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

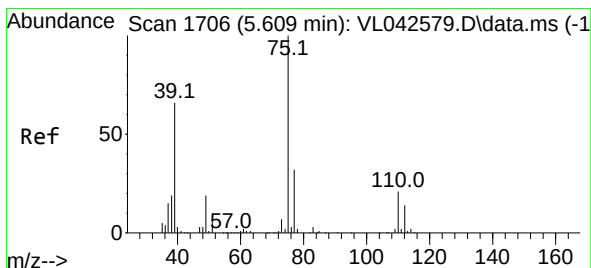
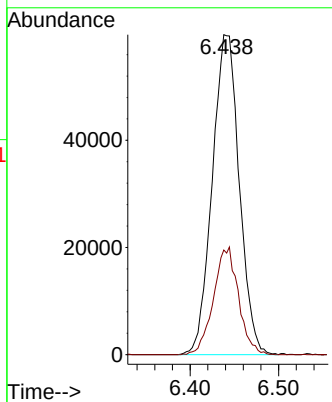
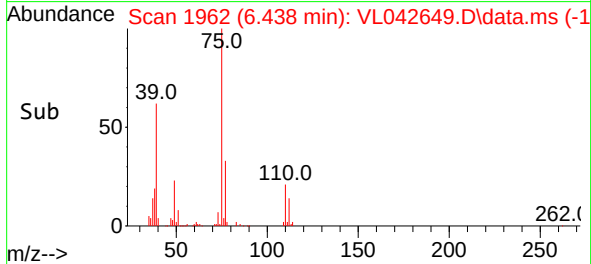
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01



Tgt Ion: 75 Resp: 12670
Ion Ratio Lower Upper
75 100
77 32.7 24.2 36.2

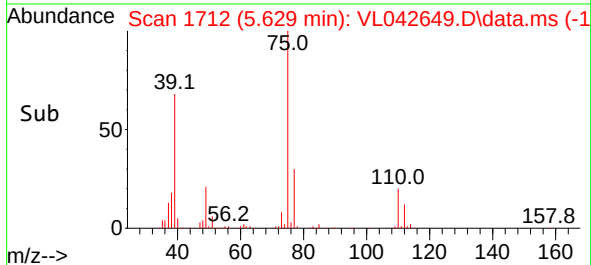
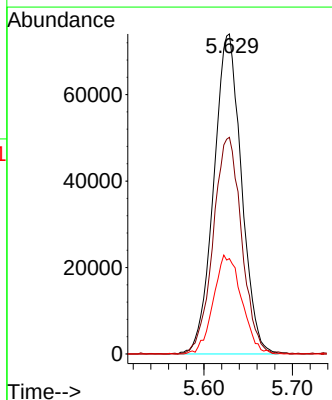
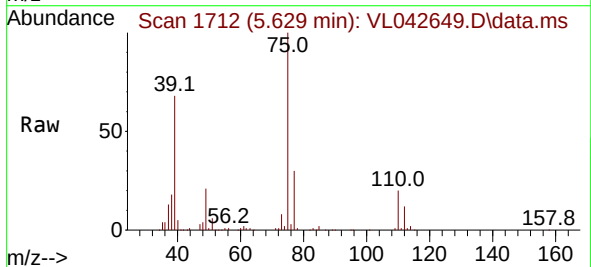
Manual Integrations
APPROVED

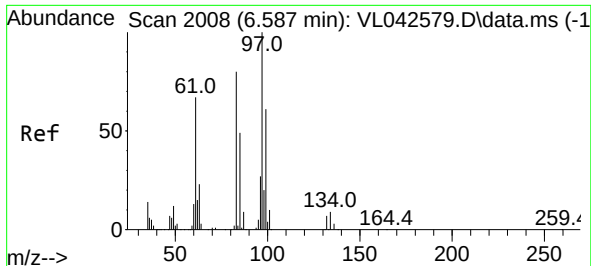
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#46
cis-1,3-Dichloropropene
Concen: 10.593 ppbv
RT: 5.629 min Scan# 1712
Delta R.T. 0.019 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

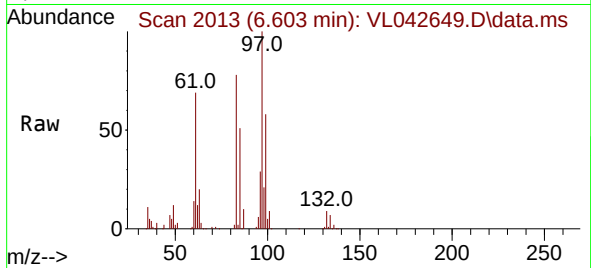
Tgt Ion: 75 Resp: 160871
Ion Ratio Lower Upper
75 100
39 67.7 52.7 79.1
77 29.8 25.8 38.8





#47
1,1,2-Trichloroethane
Concen: 11.520 ppbv
RT: 6.603 min Scan# 2008
Delta R.T. 0.016 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

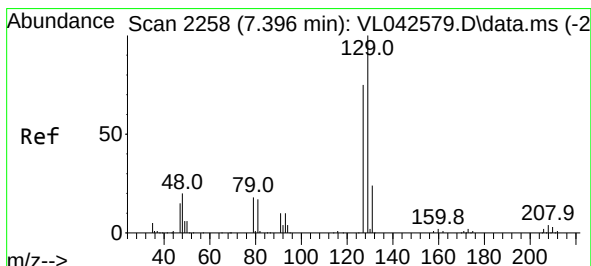
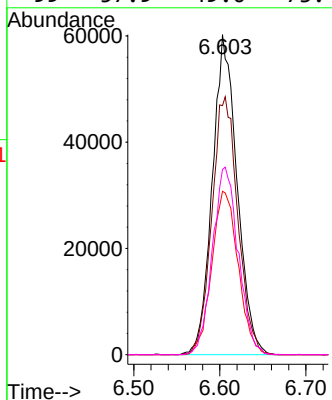
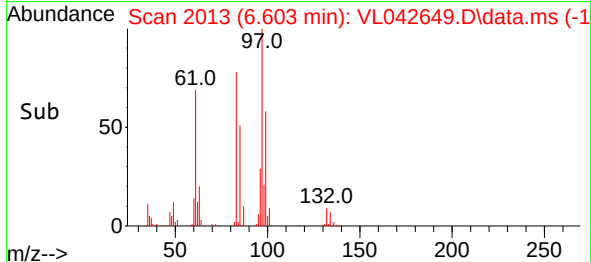
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01



Tgt Ion: 97 Resp: 12034
Ion Ratio Lower Upper
97 100
83 77.9 63.9 95.9
85 51.0 39.2 58.8
99 57.9 49.0 73.4

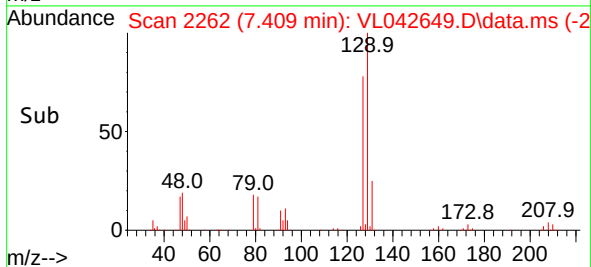
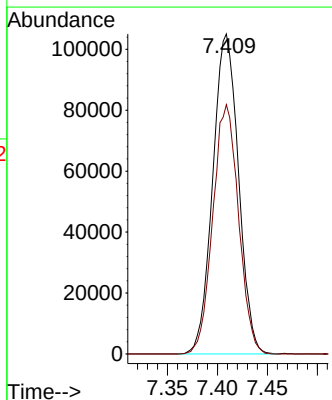
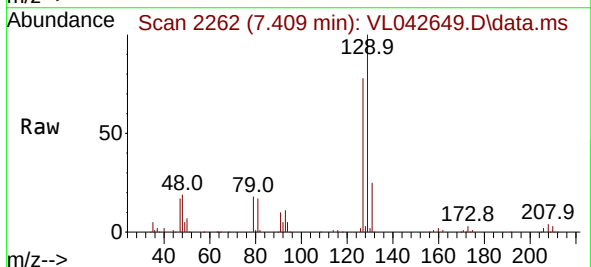
Manual Integrations
APPROVED

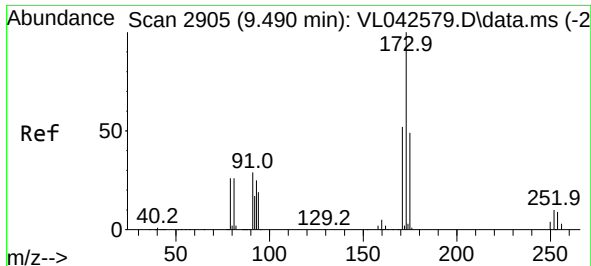
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#48
Dibromochloromethane
Concen: 11.251 ppbv
RT: 7.409 min Scan# 2262
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion:129 Resp: 188153
Ion Ratio Lower Upper
129 100
127 77.8 39.0 116.9





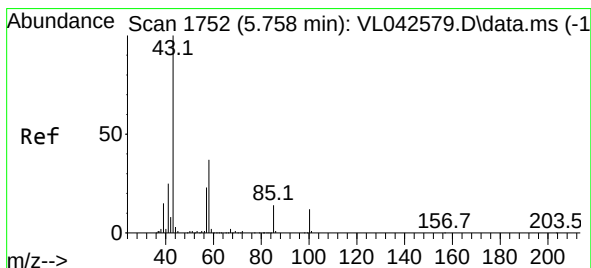
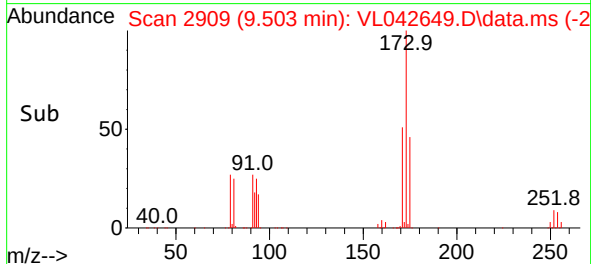
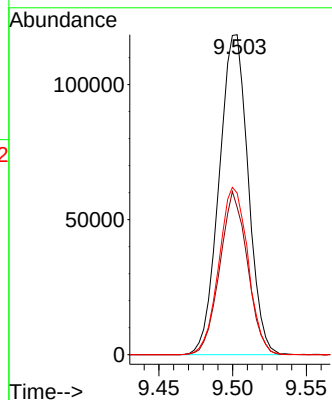
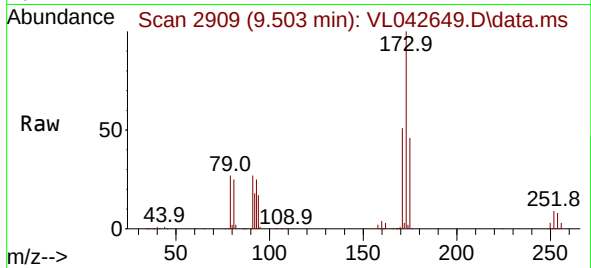
#49
Bromoform
Concen: 11.251 ppbv
RT: 9.503 min Scan# 2905
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion:173 Resp: 16234
Ion Ratio Lower Upper
173 100
175 48.5 38.7 58.1
171 52.5 41.2 61.8

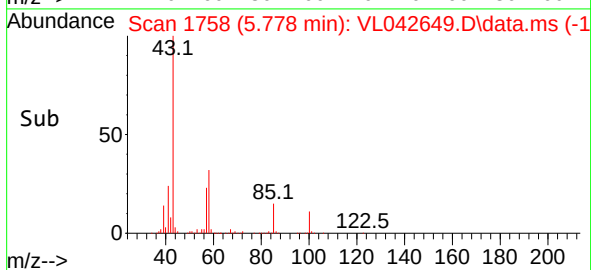
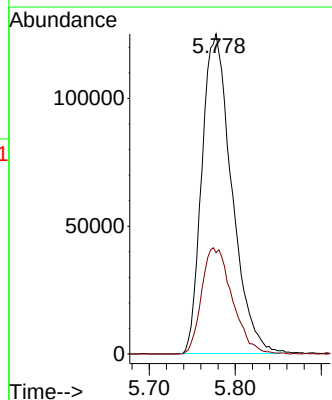
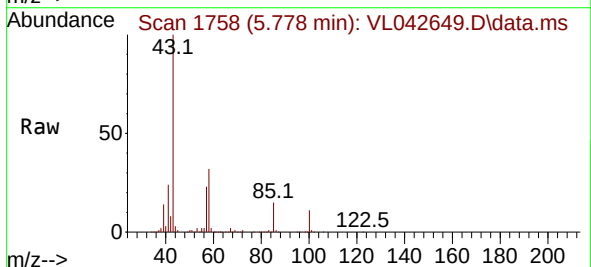
Manual Integrations
APPROVED

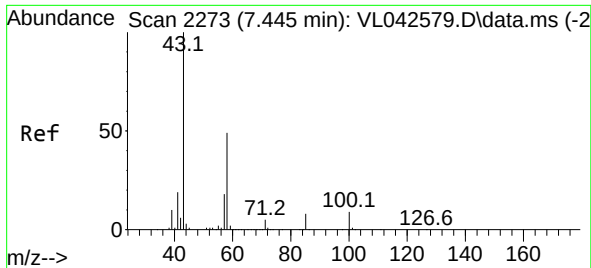
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#50
4-Methyl-2-Pentanone
Concen: 10.974 ppbv
RT: 5.778 min Scan# 1758
Delta R.T. 0.019 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

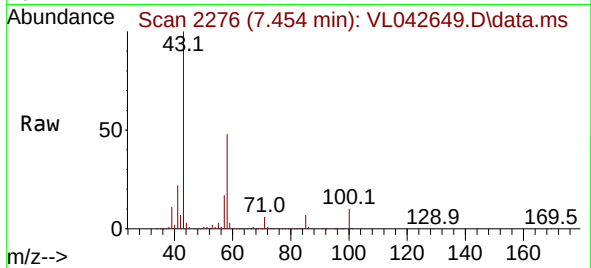
Tgt Ion: 43 Resp: 300801
Ion Ratio Lower Upper
43 100
58 34.3 28.3 42.5





#51
2-Hexanone
Concen: 10.935 ppbv
RT: 7.454 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

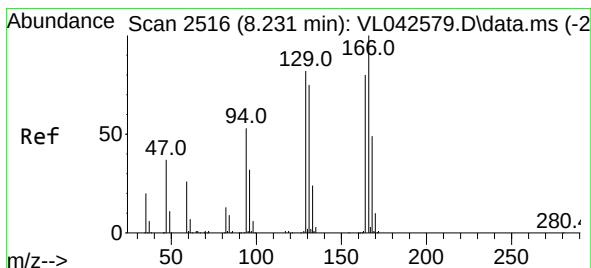
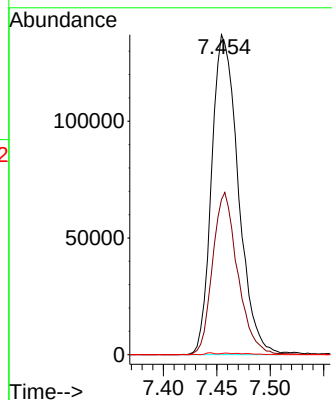
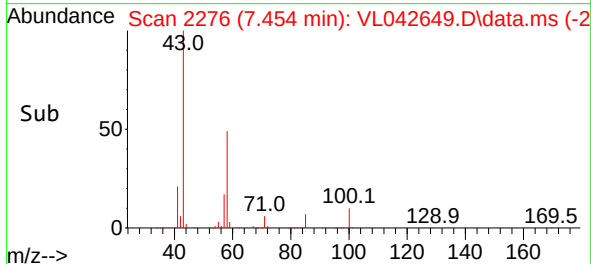
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01



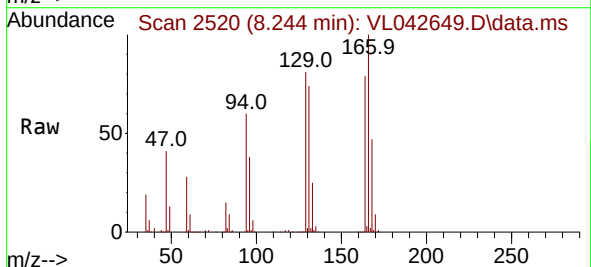
Tgt Ion: 43 Resp: 237712
Ion Ratio Lower Upper
43 100
58 47.9 39.9 59.9
98 0.7 0.1 0.1

Manual Integrations
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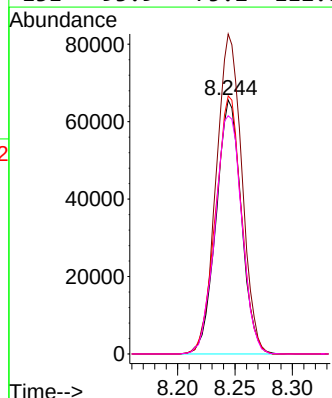
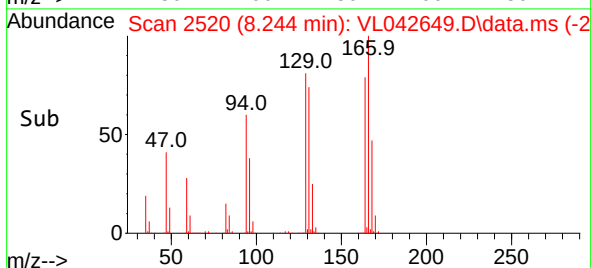
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

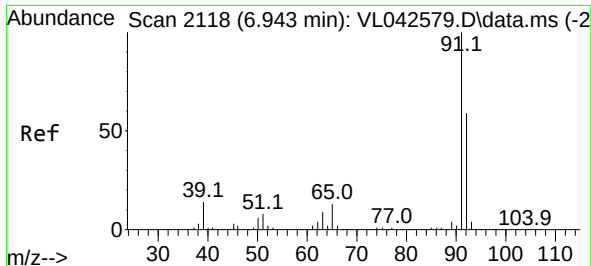


#52
Tetrachloroethene
Concen: 9.816 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26



Tgt Ion:164 Resp: 100098
Ion Ratio Lower Upper
164 100
166 126.0 100.0 150.0
129 101.6 82.2 123.4
131 93.9 75.2 112.8





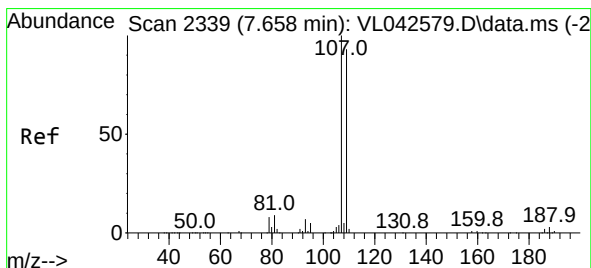
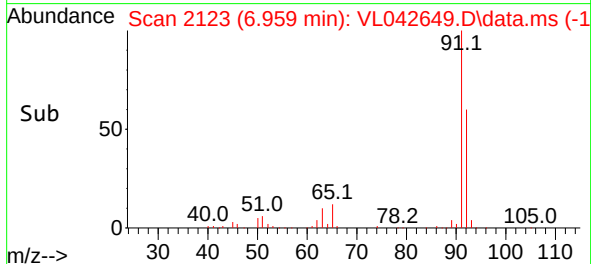
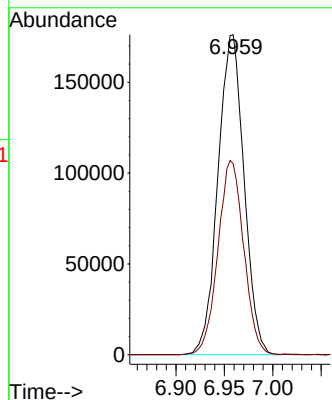
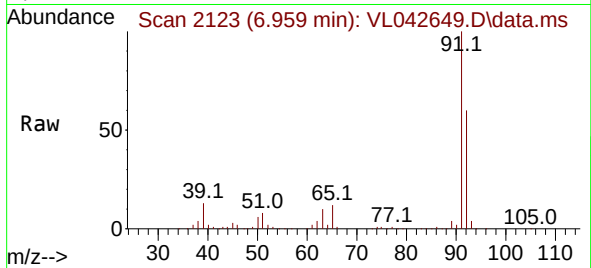
#53
Toluene
Concen: 10.467 ppbv
RT: 6.959 min Scan# 2118
Delta R.T. 0.016 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion: 91 Resp: 33013
Ion Ratio Lower Upper
91 100
92 60.0 48.2 72.4

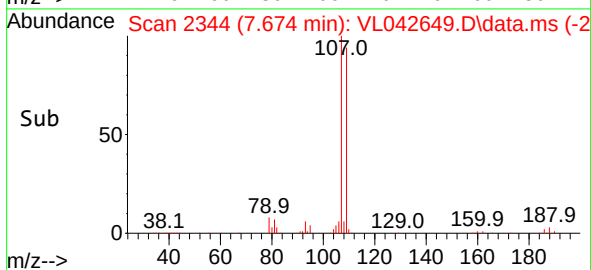
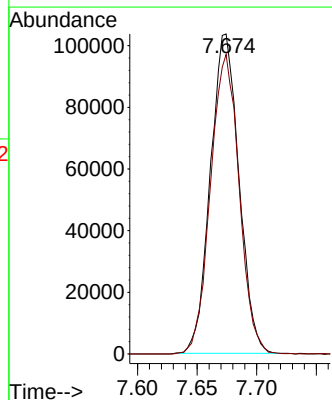
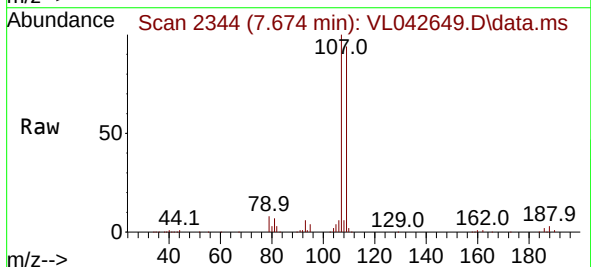
Manual Integrations
APPROVED

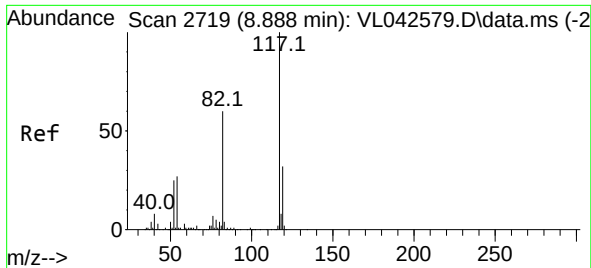
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#54
1,2-Dibromoethane
Concen: 11.166 ppbv
RT: 7.674 min Scan# 2344
Delta R.T. 0.016 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion:107 Resp: 172654
Ion Ratio Lower Upper
107 100
109 93.6 74.3 111.5





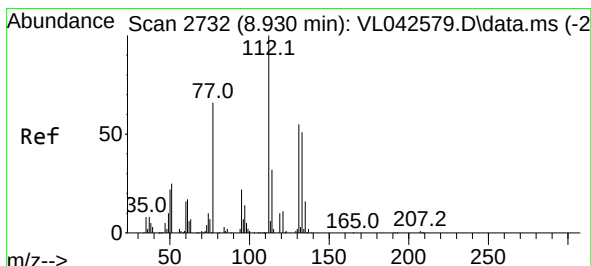
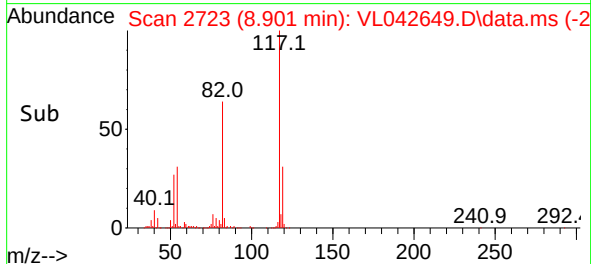
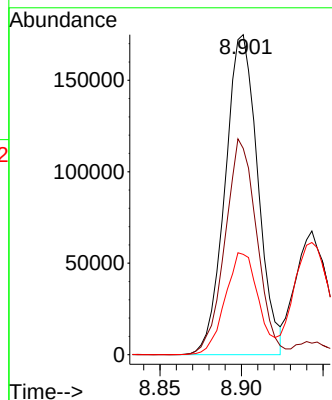
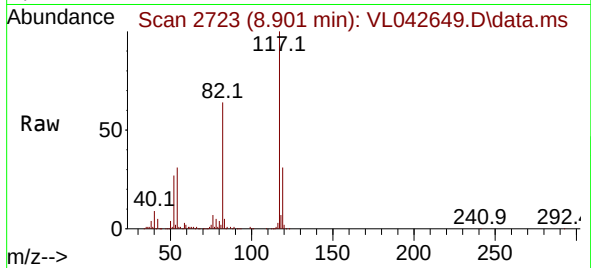
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion:117 Resp: 244062
Ion Ratio Lower Upper
117 100
82 69.5 51.2 76.8
119 32.2 26.3 39.5

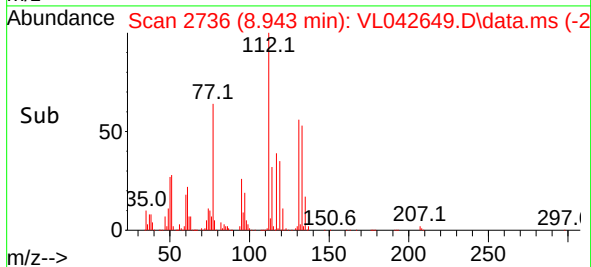
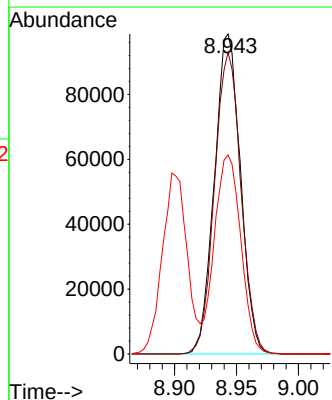
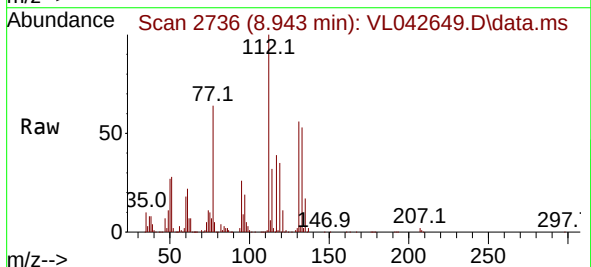
Manual Integrations
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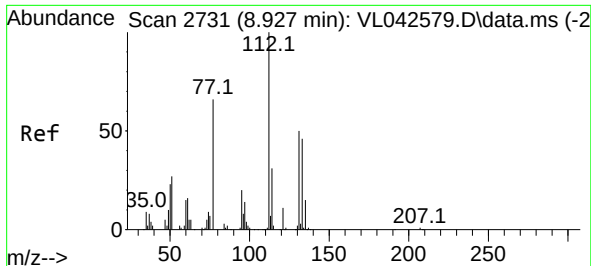
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 11.799 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

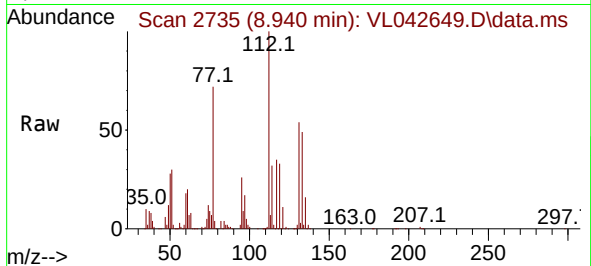
Tgt Ion:131 Resp: 144799
Ion Ratio Lower Upper
131 100
133 95.5 75.0 112.6
119 64.6 50.8 76.2





#57
Chlorobenzene
Concen: 11.120 ppbv
RT: 8.940 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

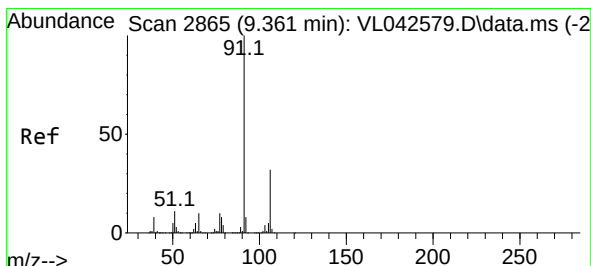
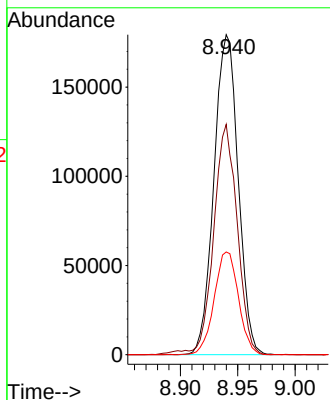
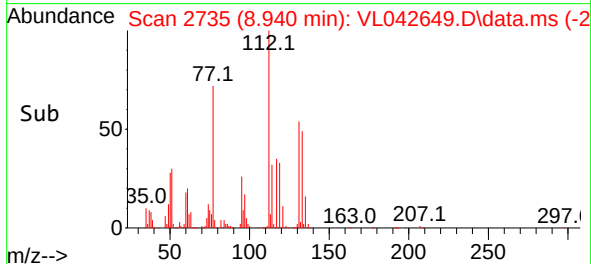
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01



Tgt Ion:112 Resp: 263529
Ion Ratio Lower Upper
112 100
77 71.9 53.5 80.3
114 32.1 27.8 34.0

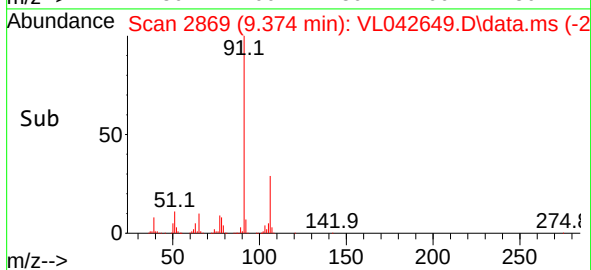
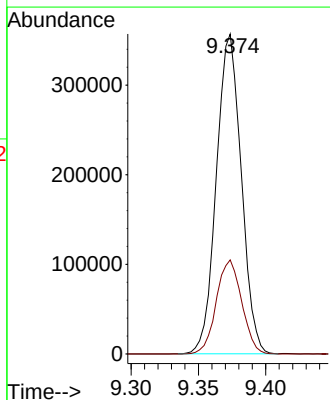
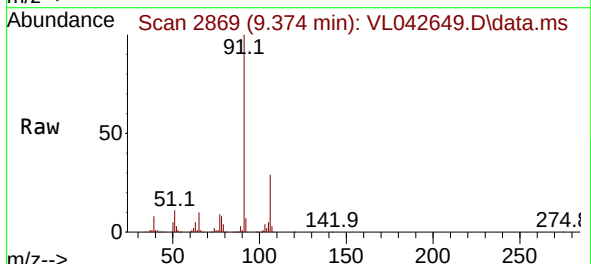
Manual Integrations
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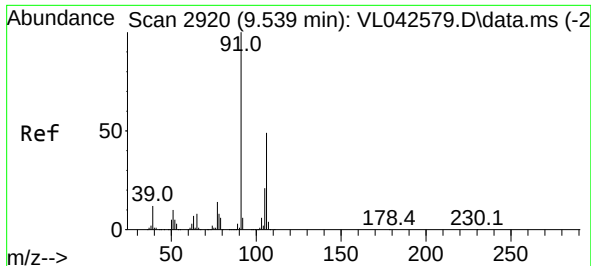
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#58
Ethyl Benzene
Concen: 11.085 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 91 Resp: 458900
Ion Ratio Lower Upper
91 100
106 29.4 25.9 38.9





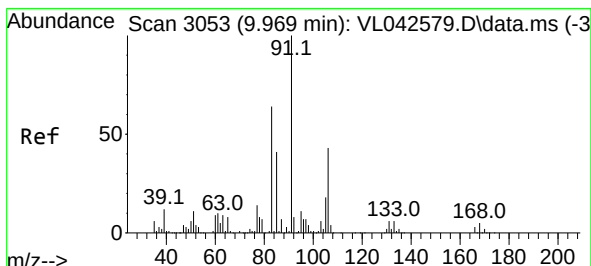
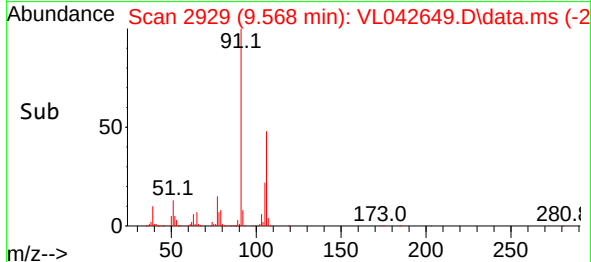
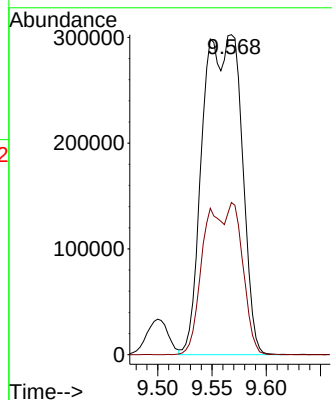
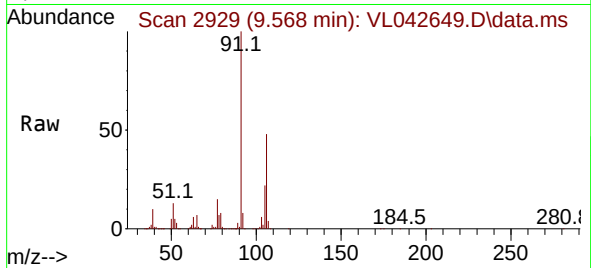
#59
m/p-Xylene
Concen: 23.219 ppbv m
RT: 9.568 min Scan# 2920
Delta R.T. 0.029 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion: 91 Resp: 756459
Ion Ratio Lower Upper
91 100
106 0.0 38.8 58.2

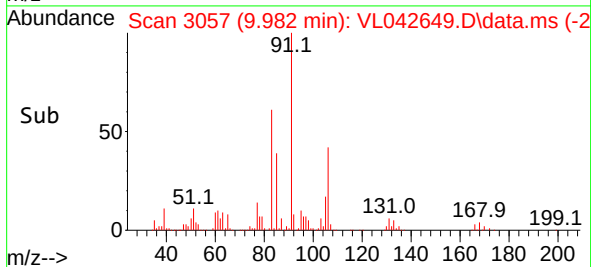
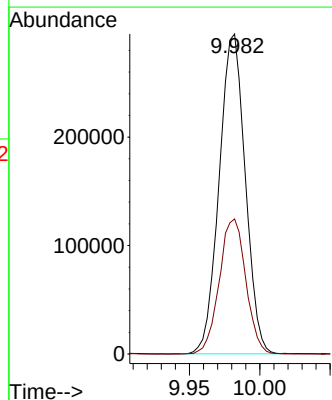
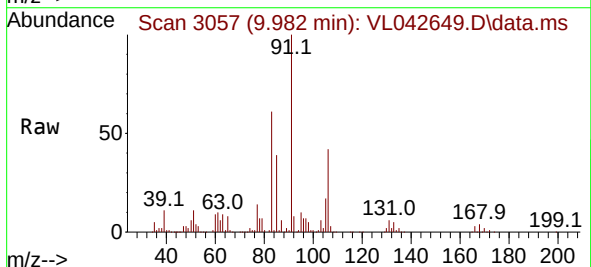
Manual Integrations
APPROVED

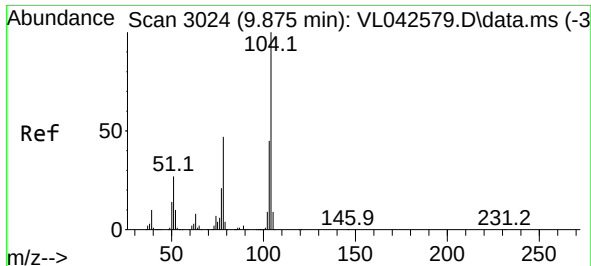
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#60
o-Xylene
Concen: 11.715 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 91 Resp: 380653
Ion Ratio Lower Upper
91 100
106 43.0 22.9 68.5





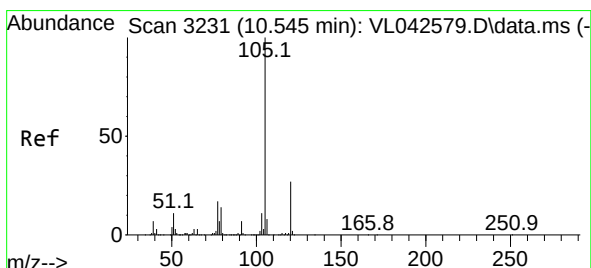
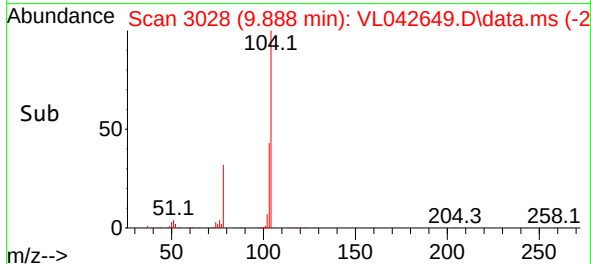
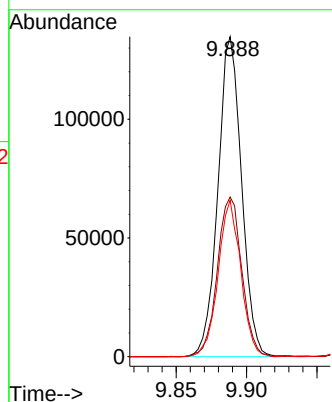
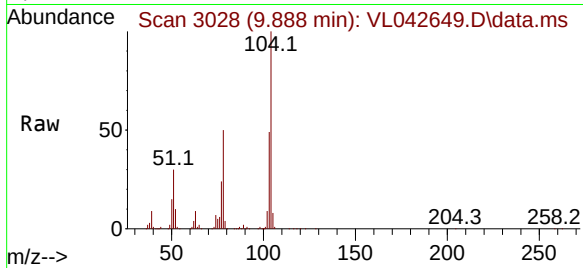
#61
Styrene
Concen: 10.253 ppbv
RT: 9.888 min Scan# 3024
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion:104 Resp: 157500
Ion Ratio Lower Upper
104 100
78 51.8 38.2 57.4
103 47.0 36.7 55.1

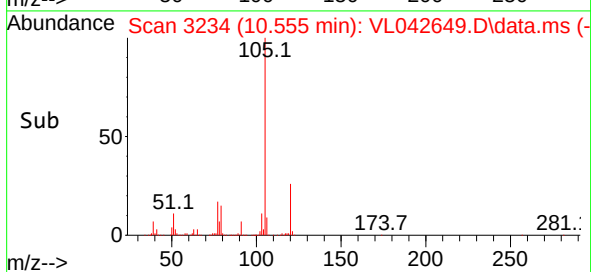
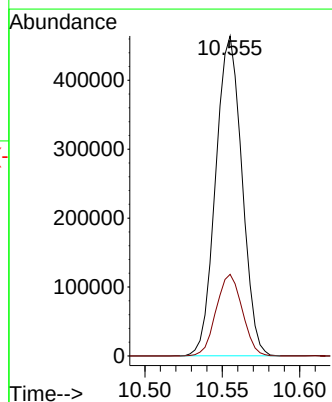
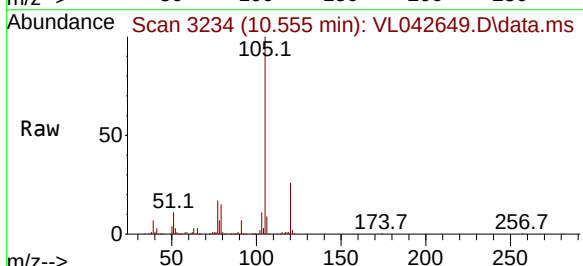
Manual Integrations
APPROVED

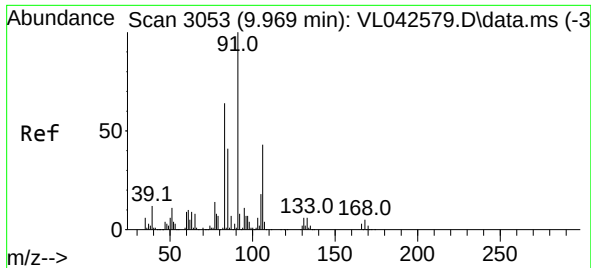
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#62
Isopropylbenzene
Concen: 11.407 ppbv
RT: 10.555 min Scan# 3234
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion:105 Resp: 547590
Ion Ratio Lower Upper
105 100
120 25.3 20.9 31.3





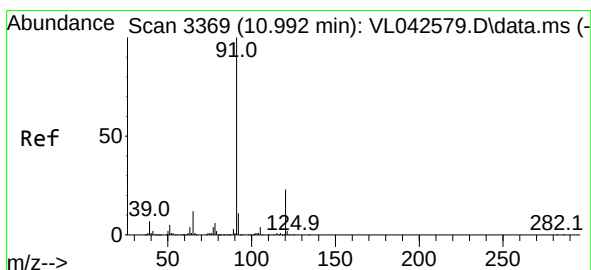
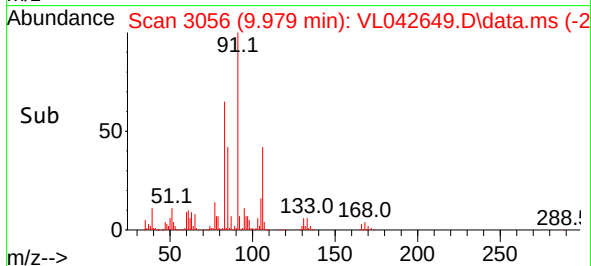
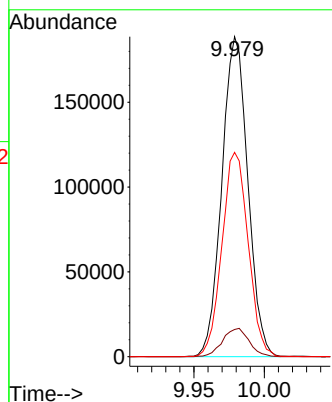
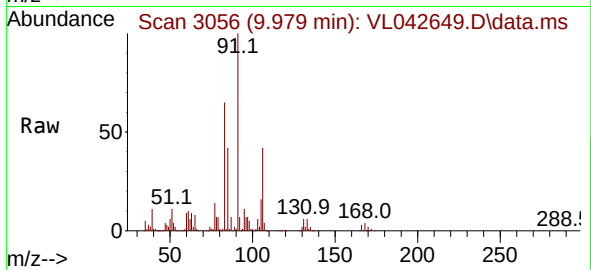
#63
1,1,2,2-Tetrachloroethane
Concen: 11.726 ppbv
RT: 9.979 min Scan# 3053
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion: 83 Resp: 242285
Ion Ratio Lower Upper
83 100
131 9.1 4.8 14.4
85 64.6 32.5 97.4

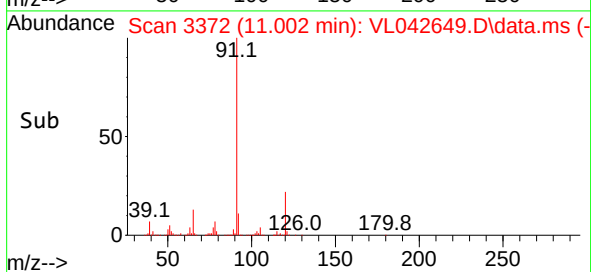
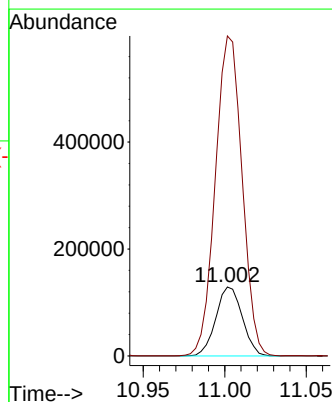
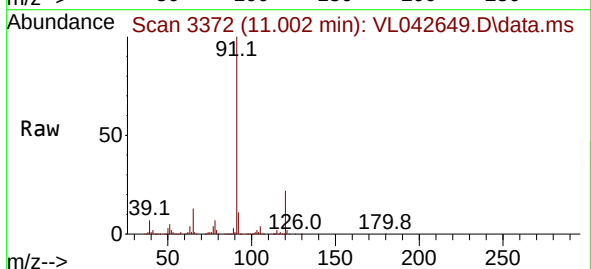
Manual Integrations
APPROVED

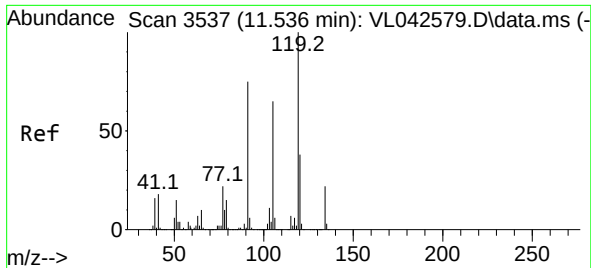
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#64
n-propylbenzene
Concen: 11.293 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion:120 Resp: 145308
Ion Ratio Lower Upper
120 100
91 470.5 363.0 544.6





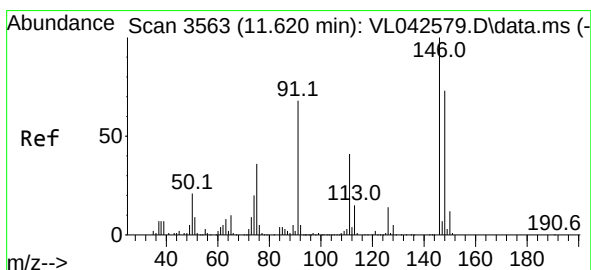
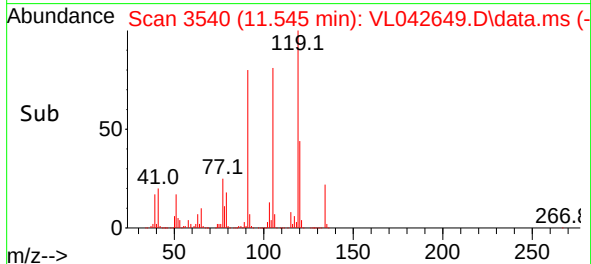
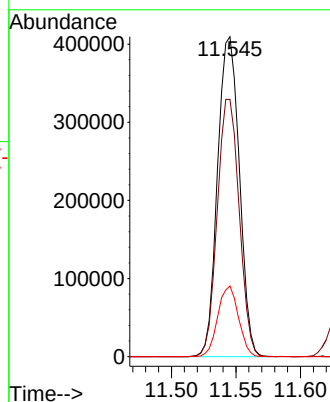
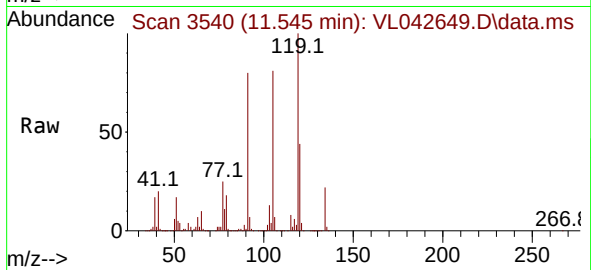
#65
tert-Butylbenzene
Concen: 11.028 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion:119 Resp: 480384
Ion Ratio Lower Upper
119 100
91 80.8 61.1 91.7
134 21.0 17.4 26.2

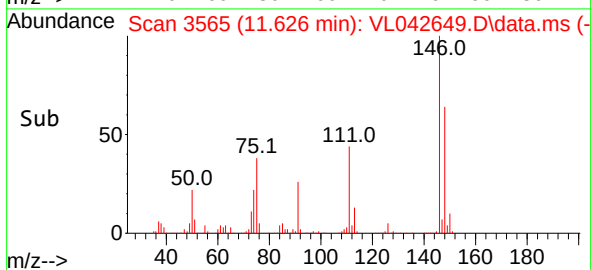
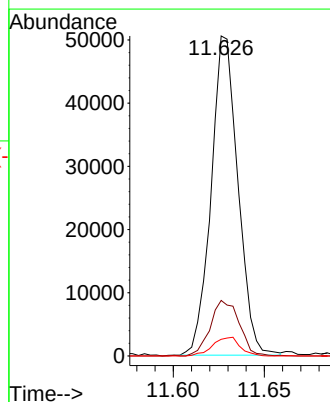
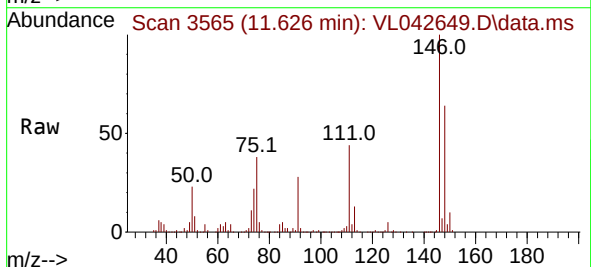
Manual Integrations
APPROVED

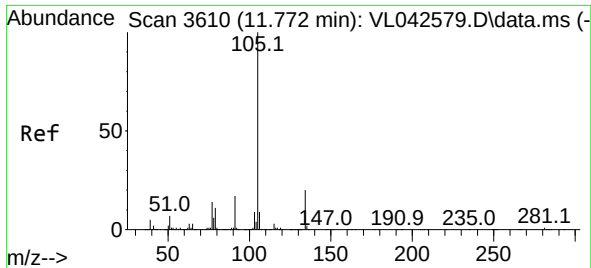
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#66
Benzyl Chloride
Concen: 9.238 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

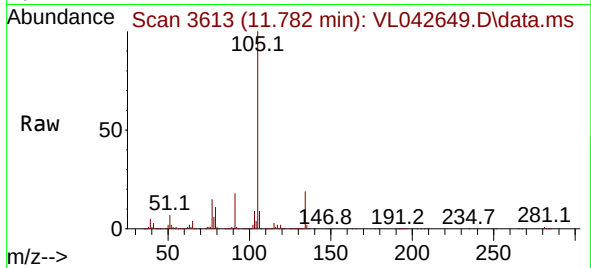
Tgt Ion: 91 Resp: 51799
Ion Ratio Lower Upper
91 100
126 18.8 15.1 22.7
128 6.0 5.0 7.6





#67
 sec-Butylbenzene
 Concen: 11.334 ppbv
 RT: 11.782 min Scan# 3613
 Delta R.T. 0.010 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

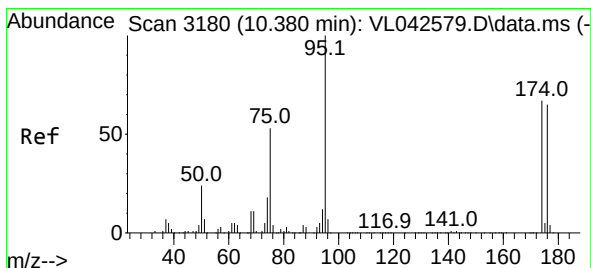
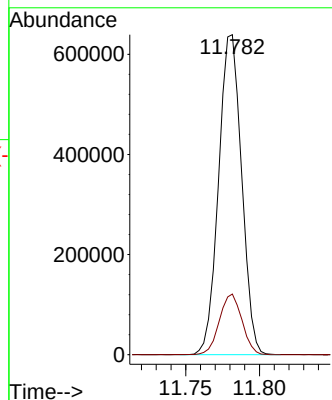
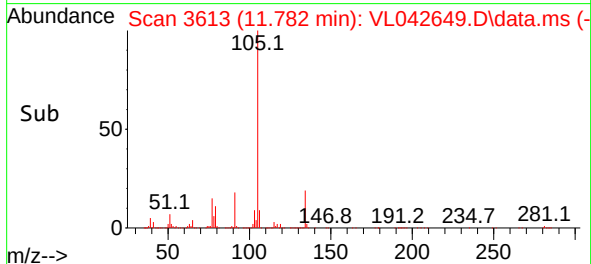
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABS01



Tgt Ion:105 Resp: 69412
 Ion Ratio Lower Upper
 105 100
 134 18.6 15.8 23.6

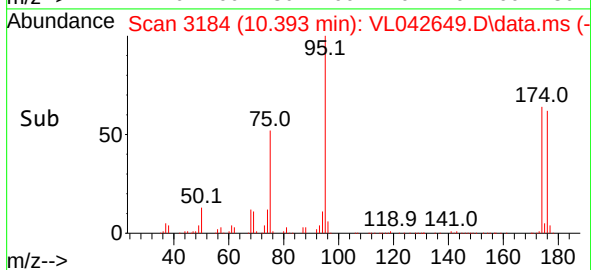
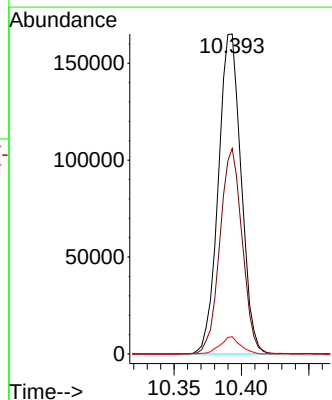
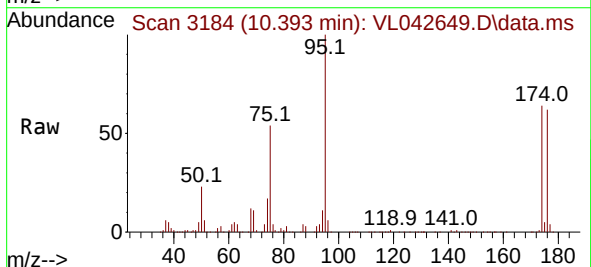
Manual Integrations
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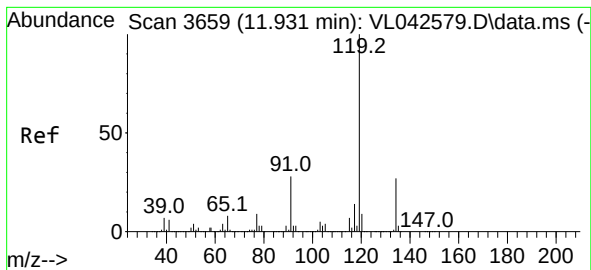
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.624 ppbv
 RT: 10.393 min Scan# 3184
 Delta R.T. 0.013 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

Tgt Ion: 95 Resp: 194374
 Ion Ratio Lower Upper
 95 100
 174 62.8 53.1 79.7
 175 4.9 4.2 6.2





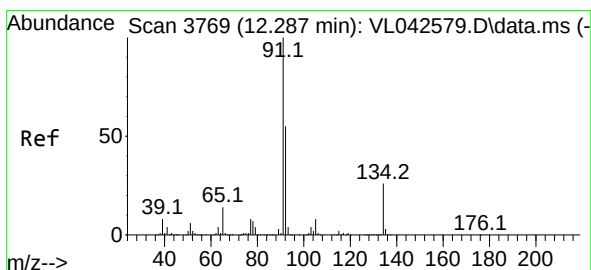
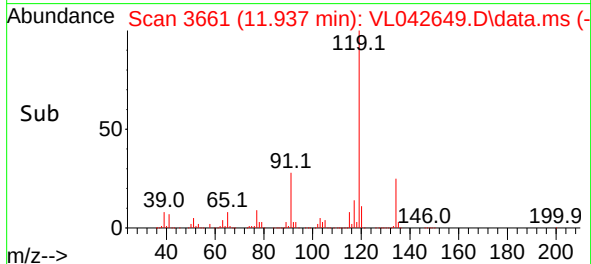
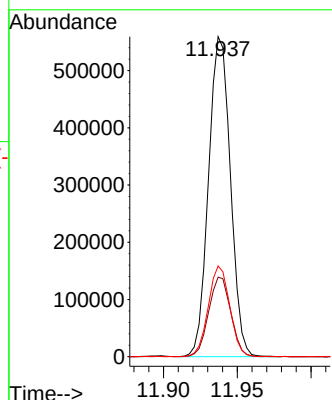
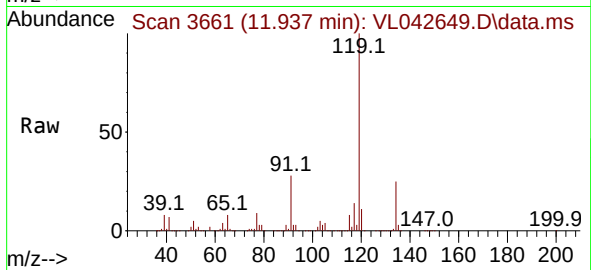
#69
p-Isopropyltoluene
Concen: 11.239 ppbv
RT: 11.937 min Scan# 3071
Delta R.T. 0.006 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion:119 Resp: 57642
Ion Ratio Lower Upper
119 100
134 25.2 21.1 31.7
91 28.1 21.9 32.9

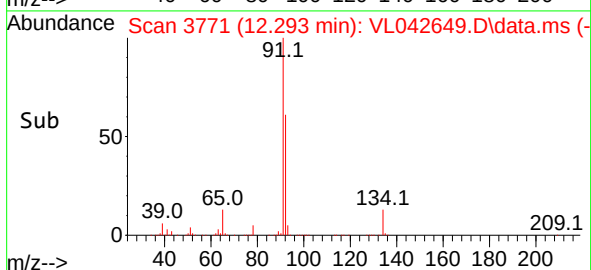
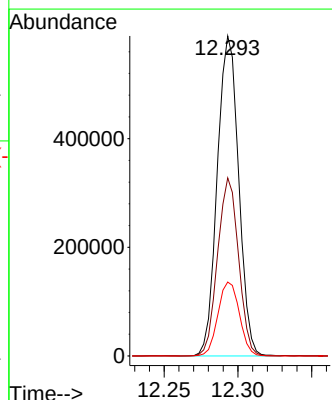
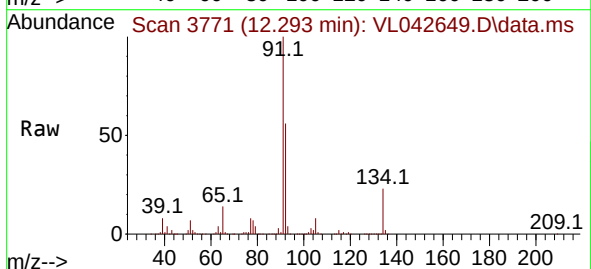
Manual Integrations
APPROVED

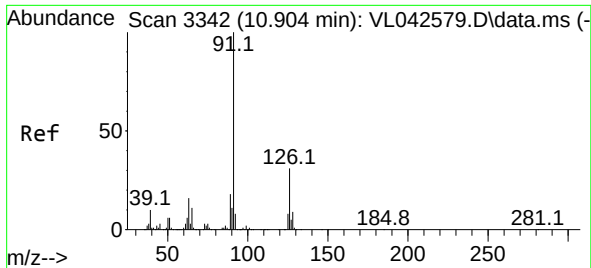
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#70
n-Butylbenzene
Concen: 11.728 ppbv
RT: 12.293 min Scan# 3771
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

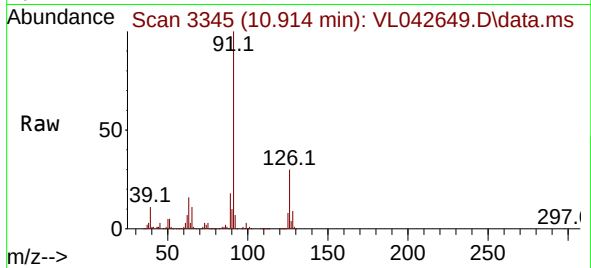
Tgt Ion: 91 Resp: 593718
Ion Ratio Lower Upper
91 100
92 54.6 44.4 66.6
134 23.2 20.1 30.1





#71
2-Chlorotoluene
Concen: 11.330 ppbv
RT: 10.914 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

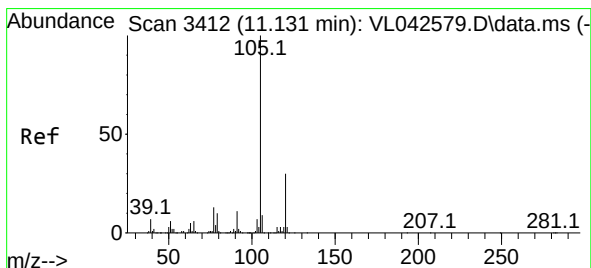
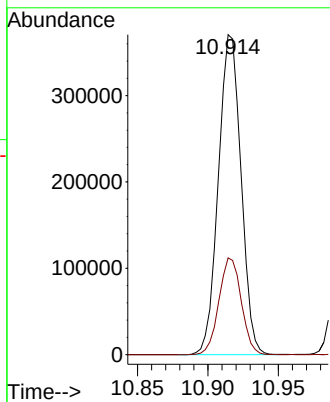
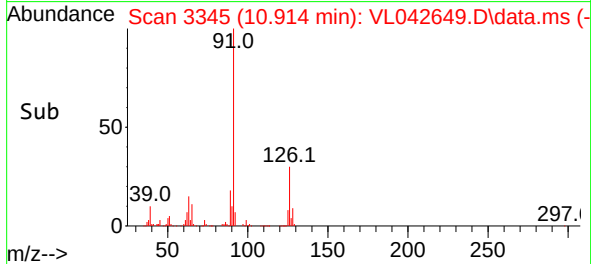
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01



Tgt Ion: 91 Resp: 414838
Ion Ratio Lower Upper
91 100
126 29.8 12.6 50.4

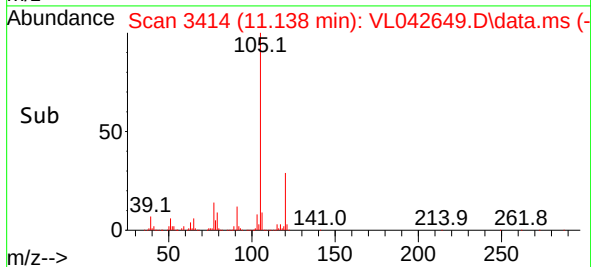
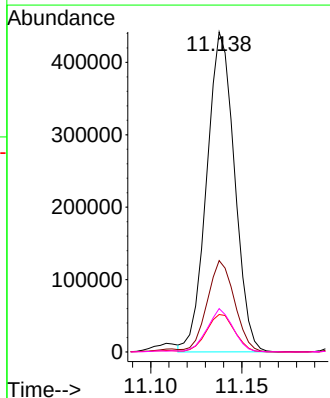
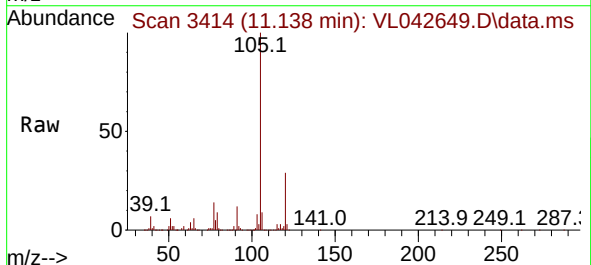
Manual Integrations
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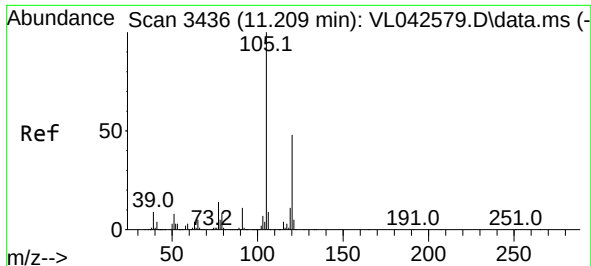
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#72
4-Ethyltoluene
Concen: 11.555 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.006 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion:105 Resp: 468085
Ion Ratio Lower Upper
105 100
120 29.0 24.6 36.8
91 12.5 9.6 14.4
77 13.0 10.6 15.8





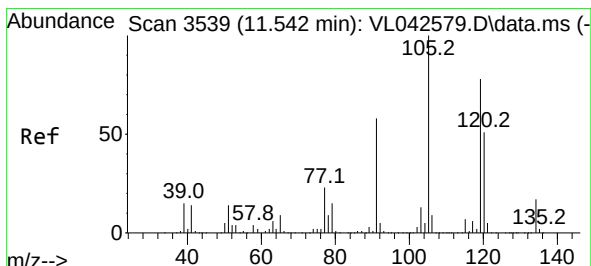
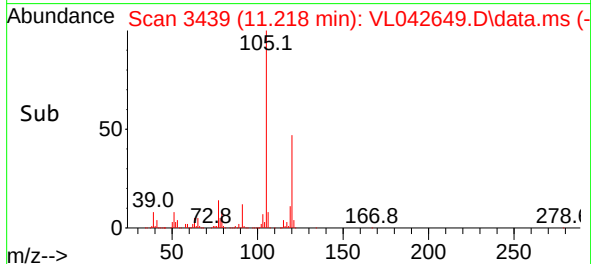
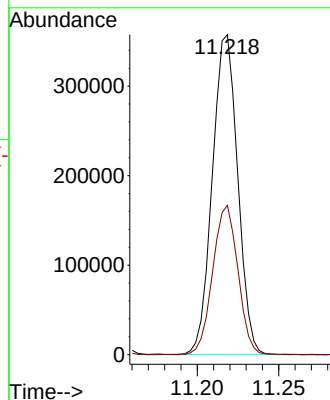
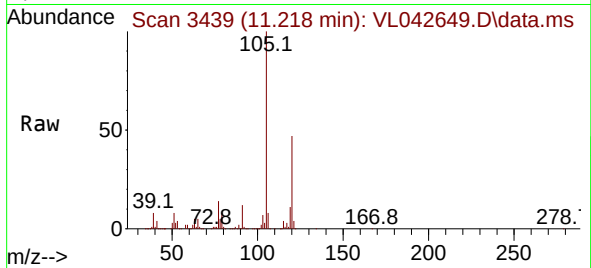
#73
1,3,5-Trimethylbenzene
Concen: 11.500 ppbv
RT: 11.218 min Scan# 3436
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion:105 Resp: 385574
Ion Ratio Lower Upper
105 100
120 46.7 38.8 58.2

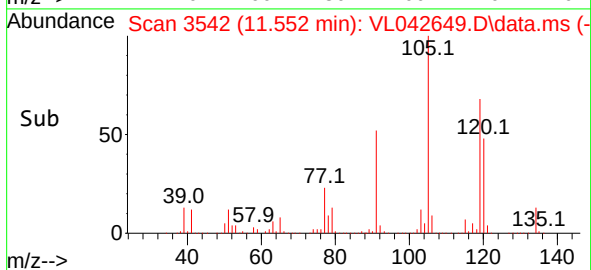
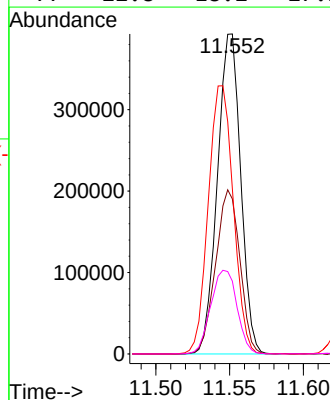
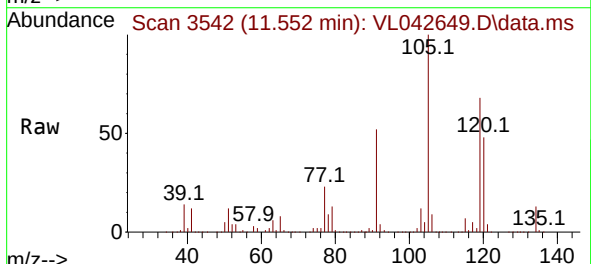
Manual Integrations
APPROVED

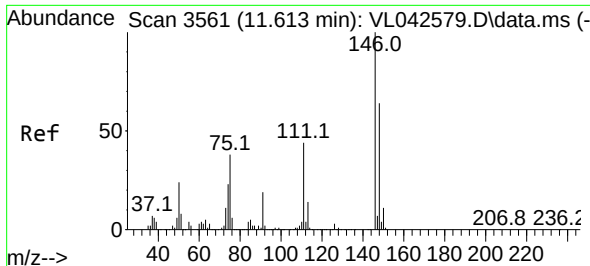
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#74
1,2,4-Trimethylbenzene
Concen: 11.602 ppbv
RT: 11.552 min Scan# 3542
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion:105 Resp: 431688
Ion Ratio Lower Upper
105 100
120 48.4 40.8 61.2
91 51.6 46.8 70.2
77 22.8 18.2 27.2





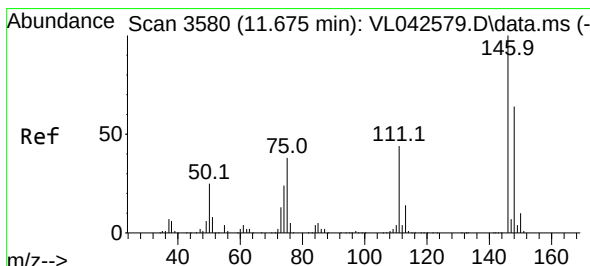
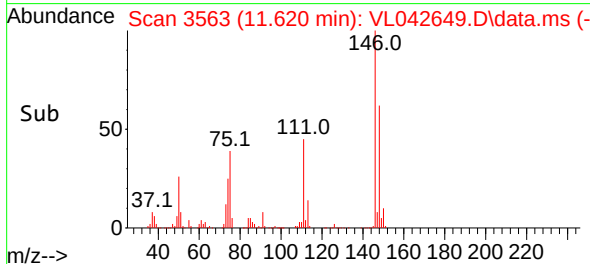
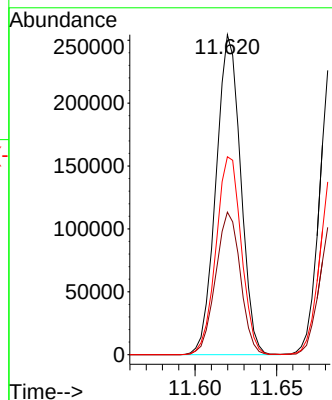
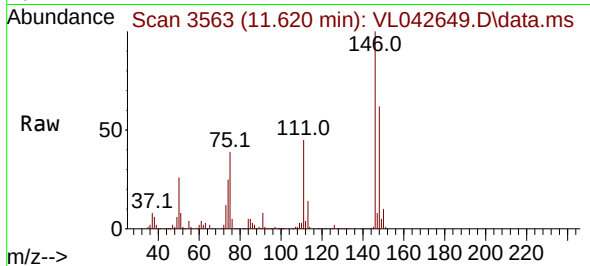
#75
1,3-Dichlorobenzene
Concen: 11.446 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

Tgt Ion:146 Resp: 26743
Ion Ratio Lower Upper
146 100
111 44.8 22.4 67.3
148 63.5 32.0 96.2

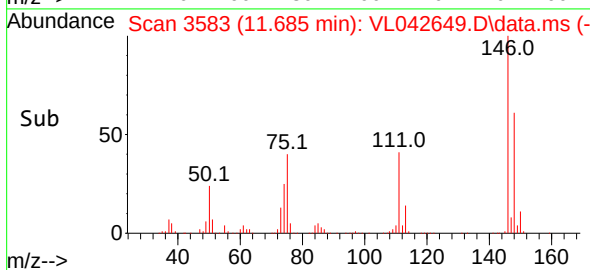
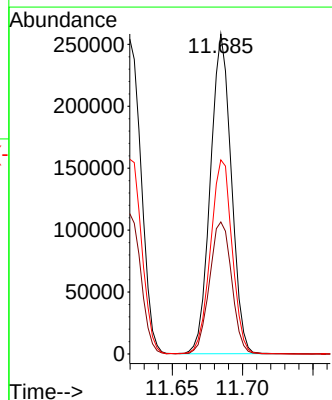
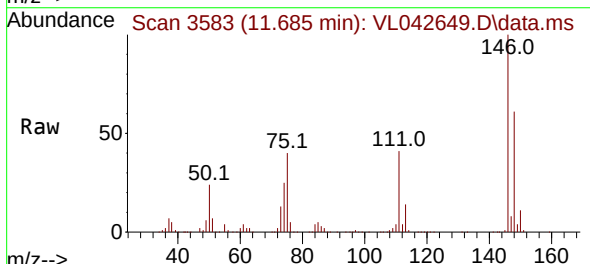
Manual Integrations
APPROVED

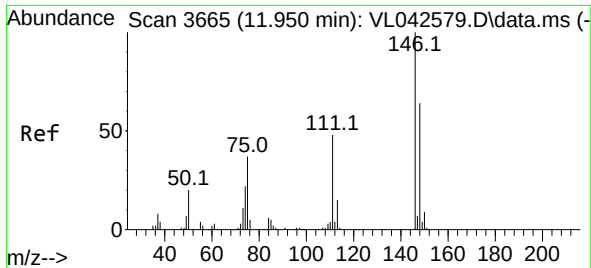
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#76
1,4-Dichlorobenzene
Concen: 11.453 ppbv
RT: 11.685 min Scan# 3583
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

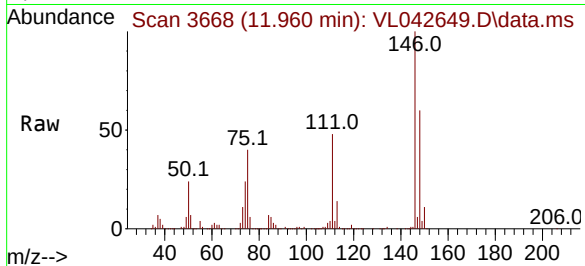
Tgt Ion:146 Resp: 266891
Ion Ratio Lower Upper
146 100
111 43.9 21.6 64.8
148 63.1 32.1 96.5





#77
1,2-Dichlorobenzene
Concen: 11.328 ppbv
RT: 11.960 min Scan# 3665
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

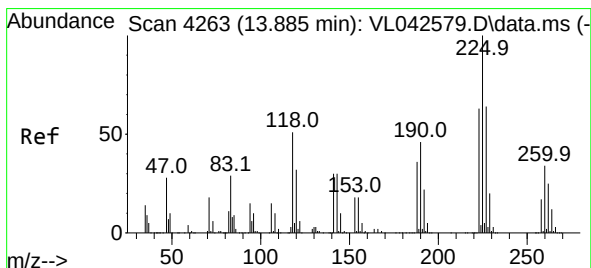
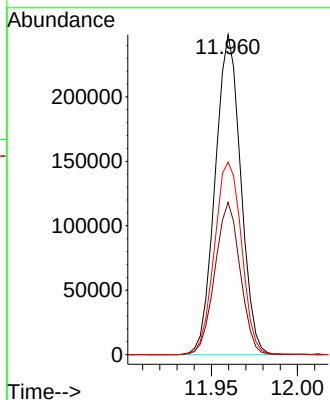
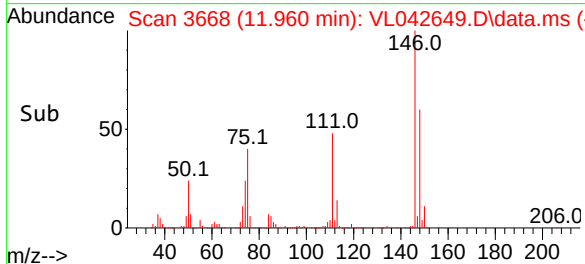
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01



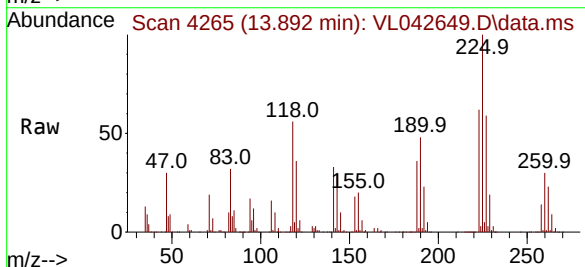
Tgt Ion:146 Resp: 25689
Ion Ratio Lower Upper
146 100
111 47.1 23.1 69.3
148 63.7 32.1 96.3

Manual Integrations
APPROVED

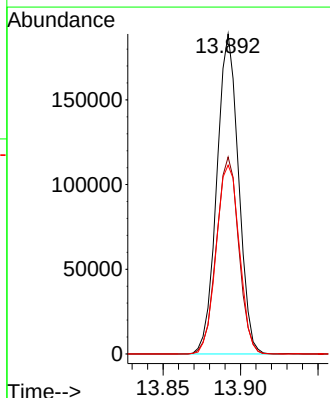
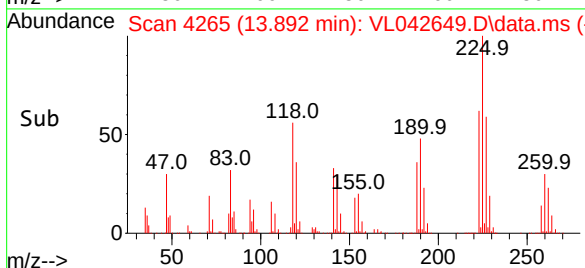
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

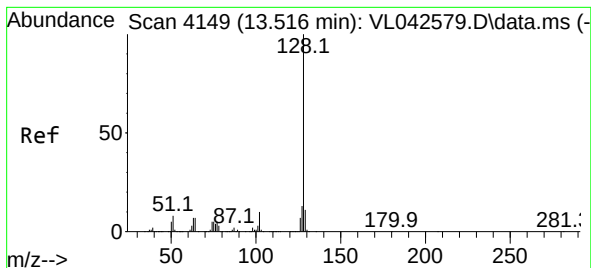


#78
Hexachloro-1,3-Butadiene
Concen: 9.819 ppbv
RT: 13.892 min Scan# 4265
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26



Tgt Ion:225 Resp: 184233
Ion Ratio Lower Upper
225 100
223 63.1 50.2 75.4
227 62.8 51.1 76.7





#79

Naphthalene

Concen: 11.824 ppbv

RT: 13.523 min Scan# 4149

Delta R.T. 0.007 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

Instrument :

MSVOA_L

ClientSampleId :

VL0619ABS01

Tgt Ion:128 Resp: 414690

Ion Ratio Lower Upper

128 100

127 12.3 10.2 15.4

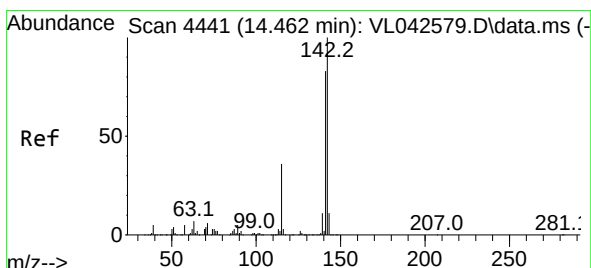
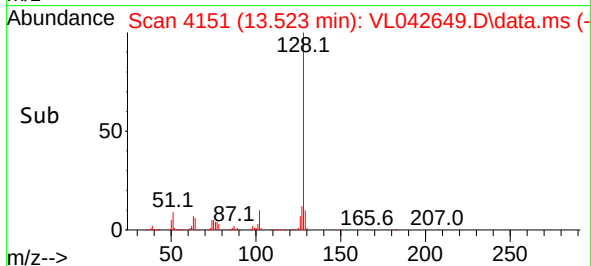
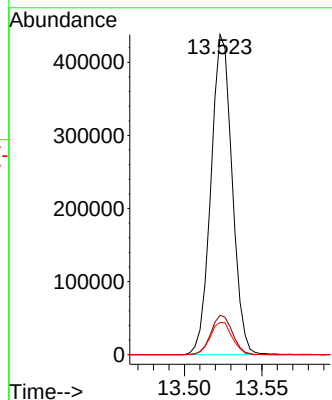
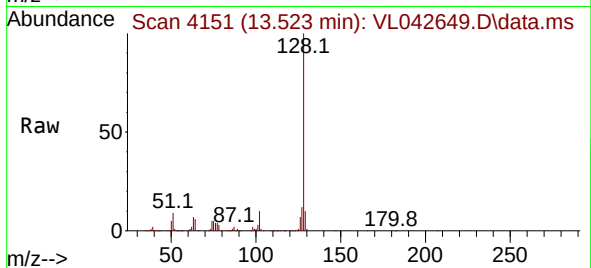
129 10.0 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#80

Naphthalene,2-methyl-

Concen: 12.098 ppbv

RT: 14.468 min Scan# 4443

Delta R.T. 0.007 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

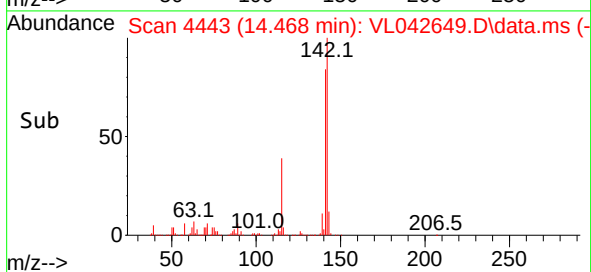
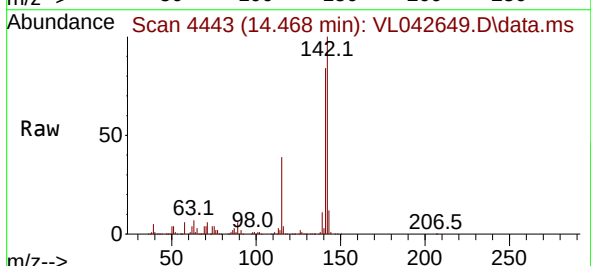
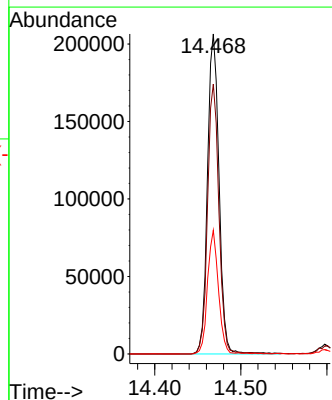
Tgt Ion:142 Resp: 191696

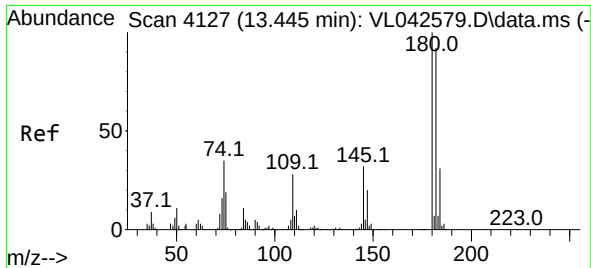
Ion Ratio Lower Upper

142 100

141 83.4 66.2 99.4

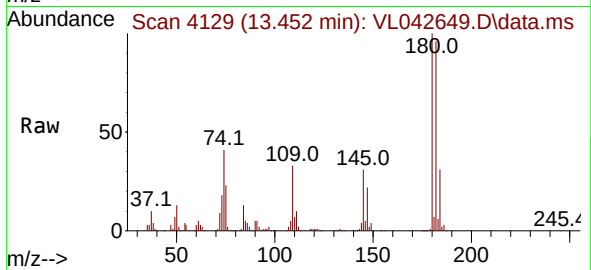
115 37.0 28.3 42.5





#81
 1,2,4-Trichlorobenzene
 Concen: 10.651 ppbv
 RT: 13.452 min Scan# 4129
 Delta R.T. 0.007 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

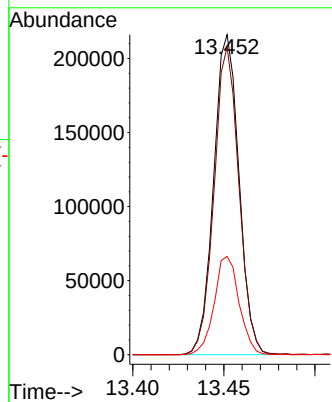
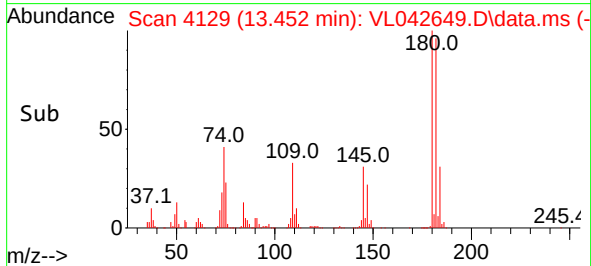
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABS01



Tgt Ion:180 Resp: 208520
 Ion Ratio Lower Upper
 180 100
 182 94.4 75.0 112.4
 184 30.3 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042652.D
 Acq On : 19 Jun 2025 12:34
 Operator : SY/MD
 Sample : Q2359-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 01:36:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	116053	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.978	114	302999	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	260992	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	203142	10.383	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.800%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	8554	0.600	ppbv	98
3) Chlorodifluoromethane	1.476	51	7958m	0.405	ppbv	
4) Chloromethane	1.535	50	14543	2.575	ppbv	99
5) Vinyl Chloride	1.583	62	206m	0.036	ppbv	
9) Propene	1.486	41	11455	1.448	ppbv	95
10) Heptane	5.001	43	46385	2.080	ppbv	99
11) Trichlorofluoromethane	1.881	101	3301	0.249	ppbv	92
13) Ethanol	1.729	45	101728	107.902	ppbv	98
15) Acetone	1.842	43	433249	30.993	ppbv	100
19) Isopropyl Alcohol	1.894	45	33433	4.001	ppbv #	1
20) Methylene Chloride	2.072	84	16777	3.637	ppbv	98
23) Vinyl Acetate	2.463	43	27026m	1.430	ppbv	
26) Hexane	2.842	57	20557	1.183	ppbv	91
29) Chloroform	2.862	83	6269	0.277	ppbv	100
31) cis-1,2-Dichloroethene	2.735	61	90052	5.663	ppbv	97
34) 2-Butanone	2.567	43	63602	2.943	ppbv	99
35) Carbon Tetrachloride	3.781	117	2523m	0.126	ppbv	
36) Benzene	3.674	78	17420	0.584	ppbv #	91
41) Tetrahydrofuran	3.066	42	195475	15.454	ppbv	99
44) 2,2,4-Trimethylpentane	4.658	57	5903m	0.116	ppbv	
53) Toluene	6.956	91	32537	0.943	ppbv	97
58) Ethyl Benzene	9.367	91	24387m	0.551	ppbv	
59) m/p-Xylene	9.545	91	106408	3.054	ppbv	96
60) o-Xylene	9.979	91	30069	0.865	ppbv	98
64) n-propylbenzene	10.999	120	1547	0.112	ppbv	78
70) n-Butylbenzene	12.290	91	6364m	0.118	ppbv	
72) 4-Ethyltoluene	11.138	105	7407	0.171	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.215	105	6906	0.193	ppbv	89
74) 1,2,4-Trimethylbenzene	11.549	105	35737	0.898	ppbv #	68
79) Naphthalene	13.523	128	19001	0.507	ppbv #	95
80) Naphthalene,2-methyl-	14.465	142	12441m	0.734	ppbv	

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

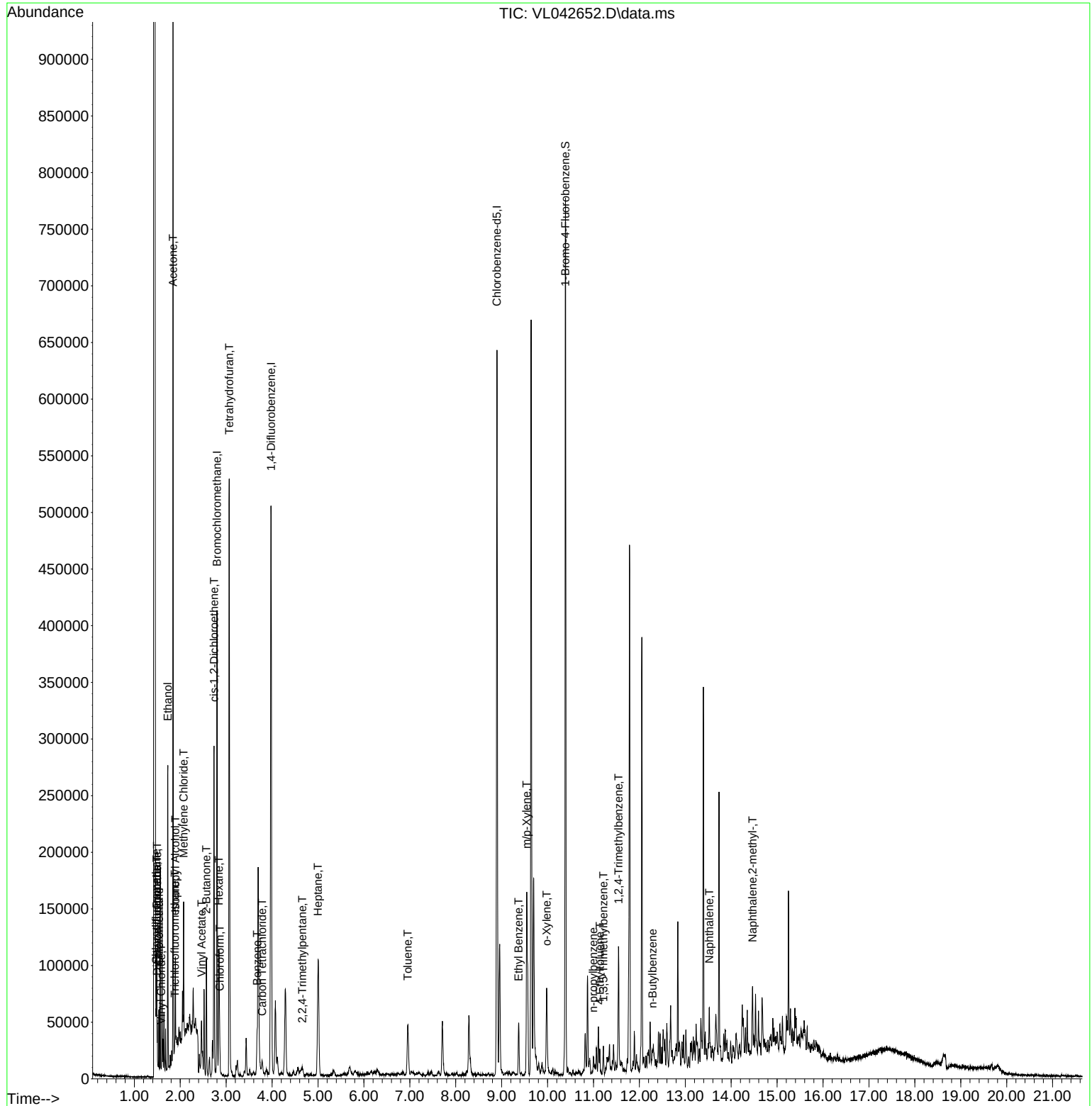
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
Data File : VL042652.D
Acq On : 19 Jun 2025 12:34
Operator : SY/MD
Sample : Q2359-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

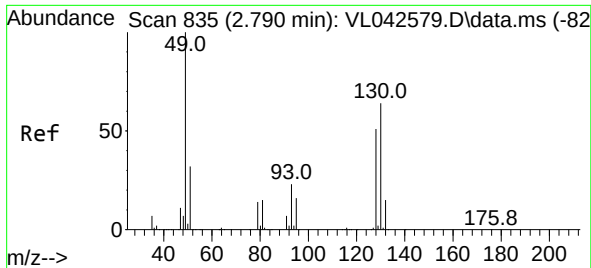
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

Quant Time: Jun 20 01:36:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 06/23/2025
Supervised By : Mahesh Dadoda 06/23/2025





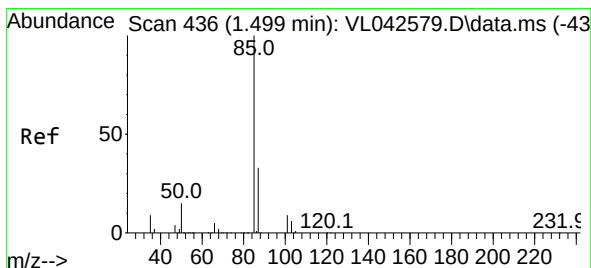
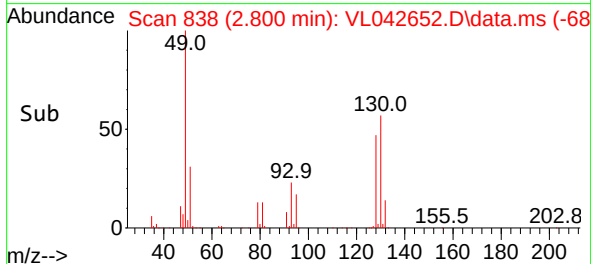
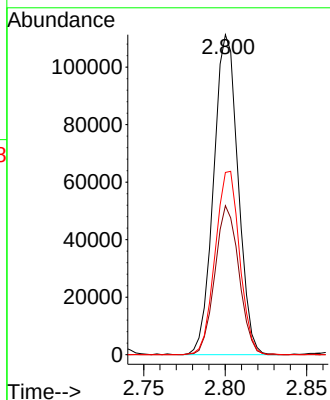
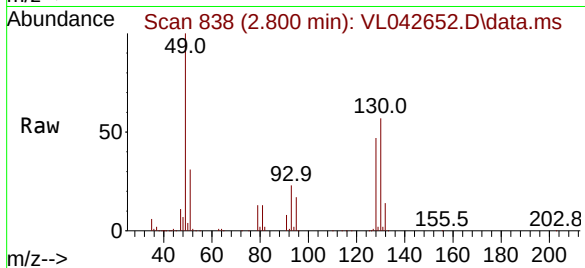
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

Tgt Ion: 49 Resp: 11605
Ion Ratio Lower Upper
49 100
128 45.6 24.2 72.6
130 57.2 30.4 91.2

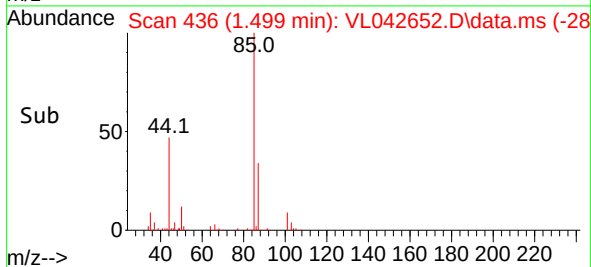
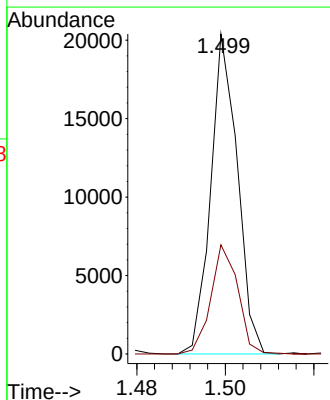
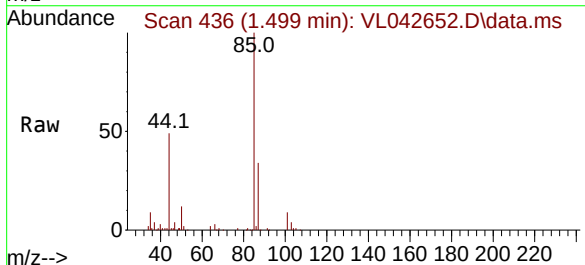
Manual Integrations
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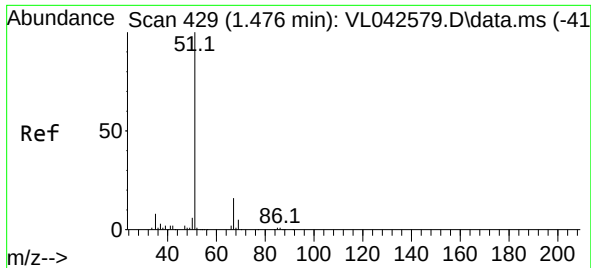
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#2
Dichlorodifluoromethane
Concen: 0.600 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

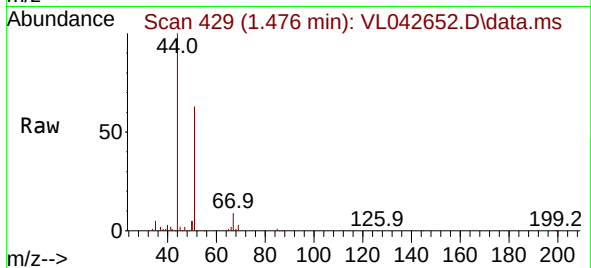
Tgt Ion: 85 Resp: 8554
Ion Ratio Lower Upper
85 100
87 34.1 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.405 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

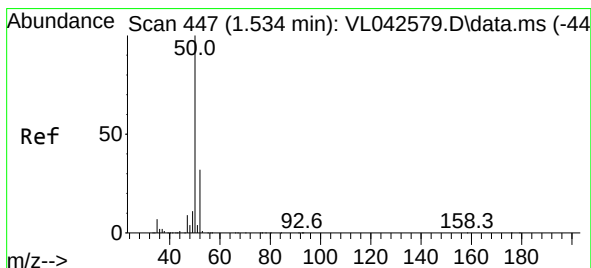
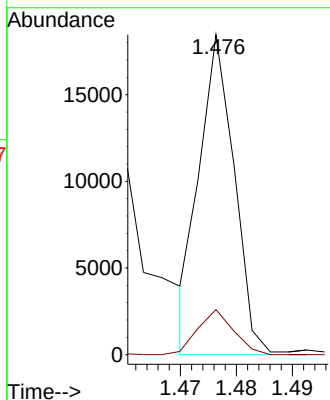
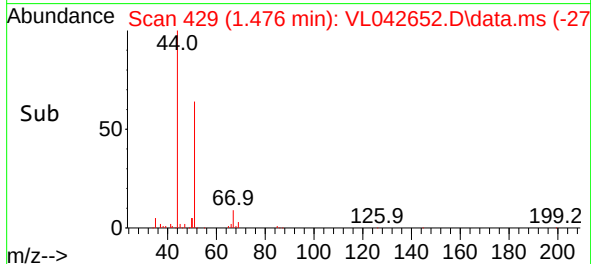
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP



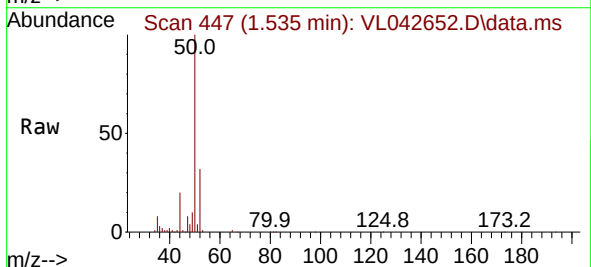
Tgt Ion: 51 Resp: 7958
Ion Ratio Lower Upper
51 100
67 16.8 13.4 20.2

Manual Integrations
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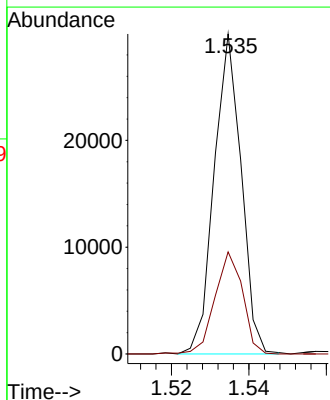
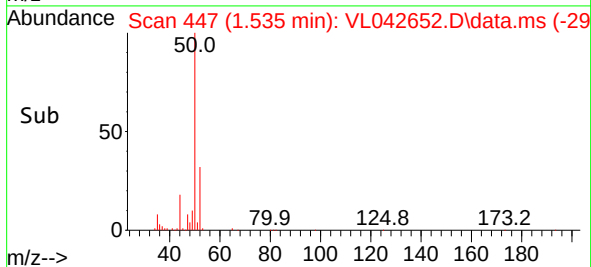
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

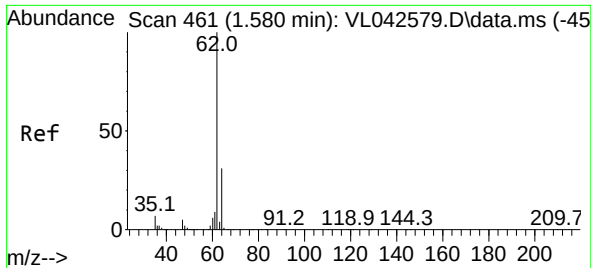


#4
Chloromethane
Concen: 2.575 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34



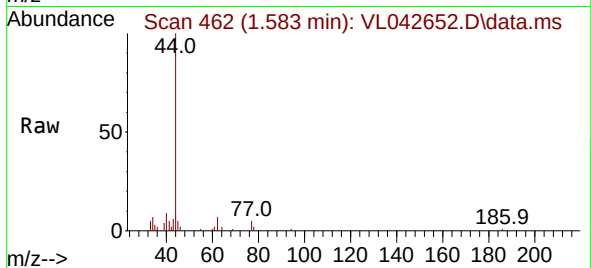
Tgt Ion: 50 Resp: 14543
Ion Ratio Lower Upper
50 100
52 31.7 25.8 38.6





#5
 Vinyl Chloride
 Concen: 0.036 ppbv m
 RT: 1.583 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

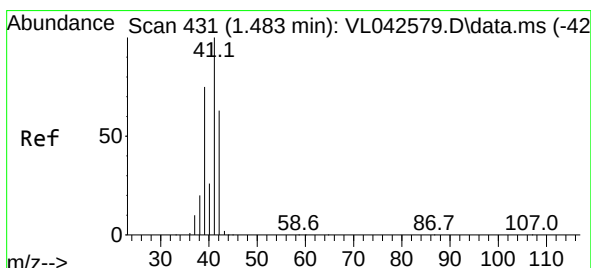
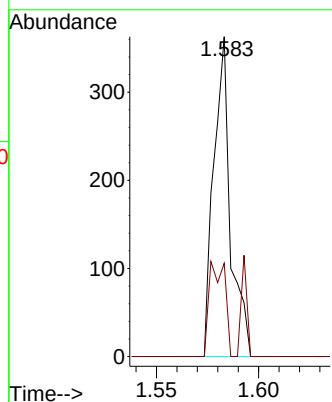
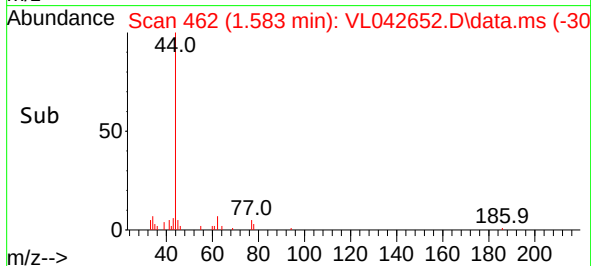
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP



Tgt Ion: 62 Resp: 200
 Ion Ratio Lower Upper
 62 100
 64 29.2 24.9 37.3

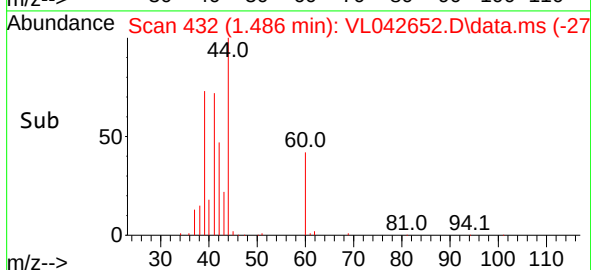
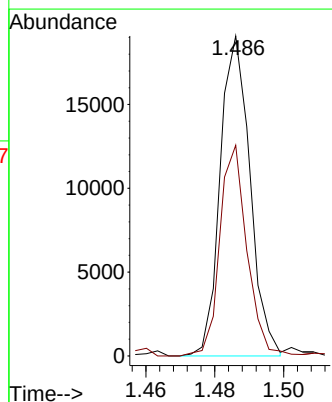
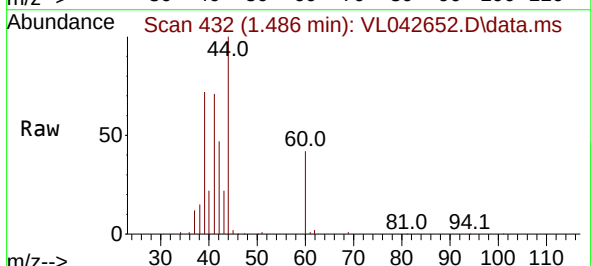
Manual Integrations
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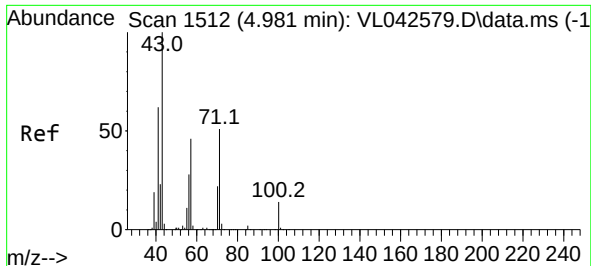
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



#9
 Propene
 Concen: 1.448 ppbv
 RT: 1.486 min Scan# 432
 Delta R.T. 0.003 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

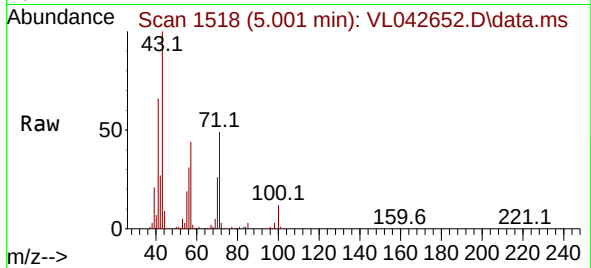
Tgt Ion: 41 Resp: 11455
 Ion Ratio Lower Upper
 41 100
 42 62.4 53.3 79.9





#10
Heptane
Concen: 2.080 ppbv
RT: 5.001 min Scan# 11
Delta R.T. 0.020 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

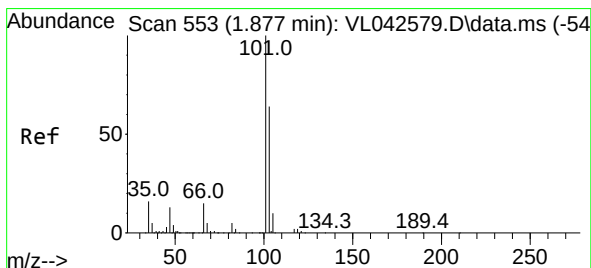
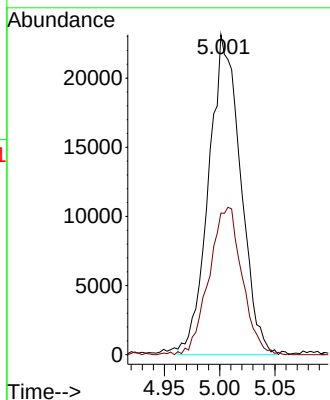
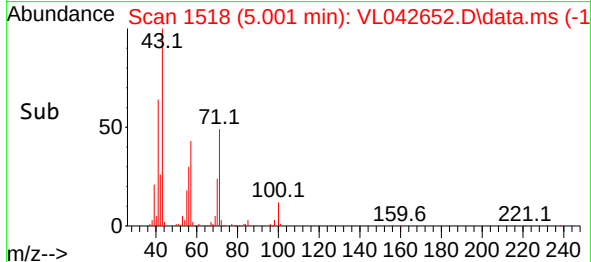
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP



Tgt Ion: 43 Resp: 4638
Ion Ratio Lower Upper
43 100
57 47.8 38.9 58.3

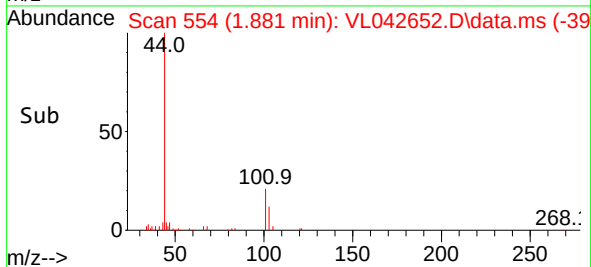
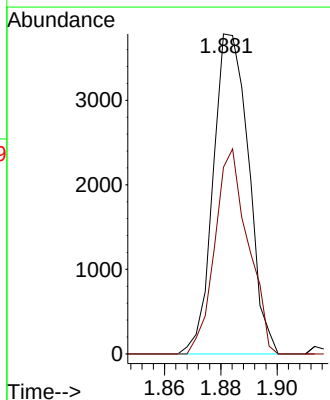
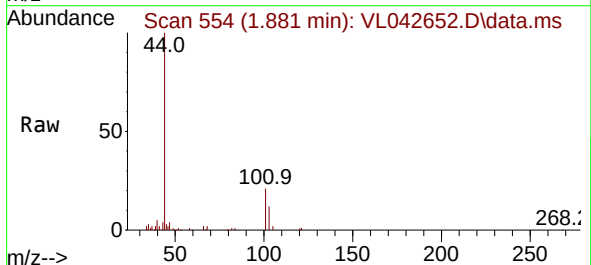
Manual Integrations
APPROVED

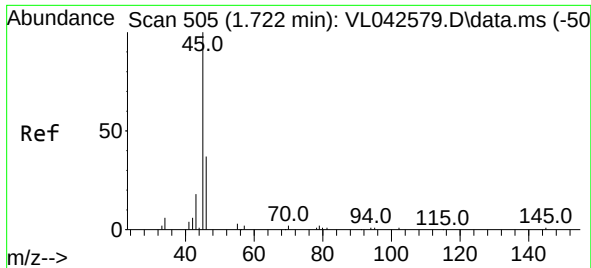
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#11
Trichlorofluoromethane
Concen: 0.249 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.003 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion:101 Resp: 3301
Ion Ratio Lower Upper
101 100
103 58.3 51.5 77.3





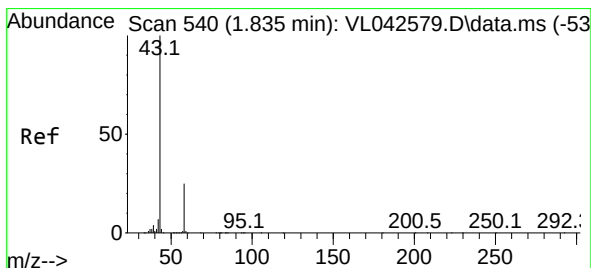
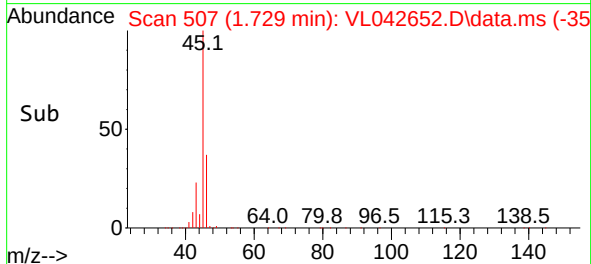
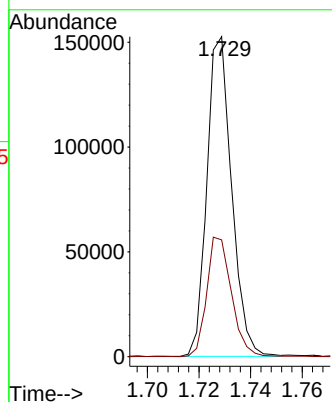
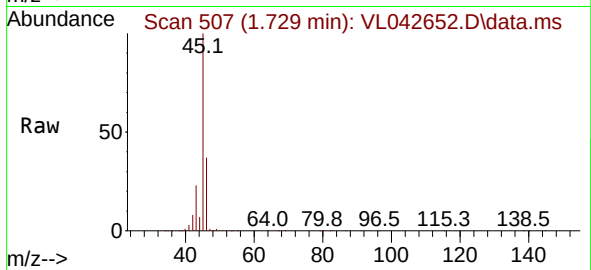
#13
Ethanol
Concen: 107.902 ppbv
RT: 1.729 min Scan# 505
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

Tgt Ion: 45 Resp: 101728
Ion Ratio Lower Upper
45 100
46 37.5 14.5 58.1

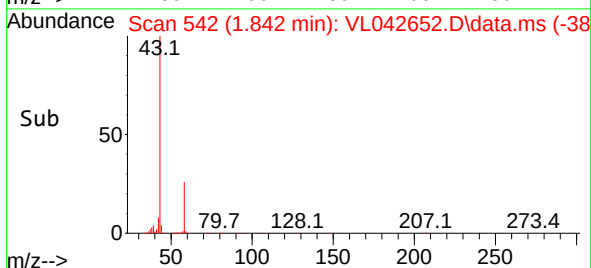
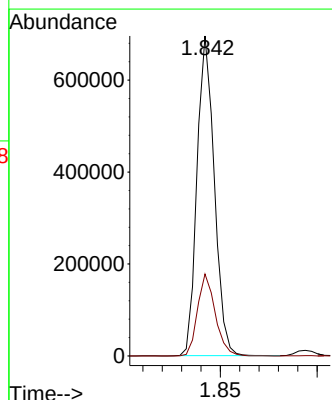
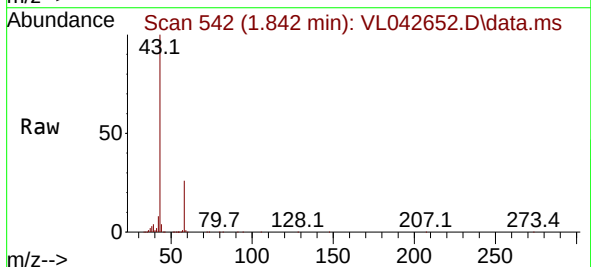
Manual Integrations
APPROVED

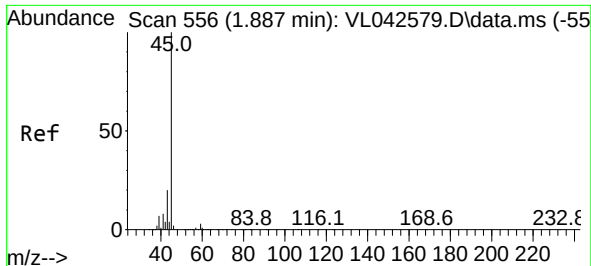
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#15
Acetone
Concen: 30.993 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

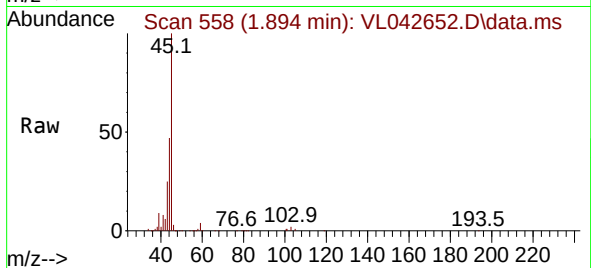
Tgt Ion: 43 Resp: 433249
Ion Ratio Lower Upper
43 100
58 26.3 21.0 31.4





#19
Isopropyl Alcohol
Concen: 4.001 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

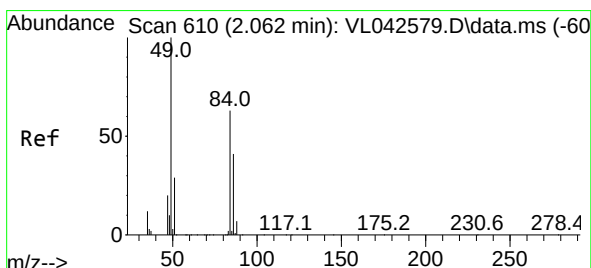
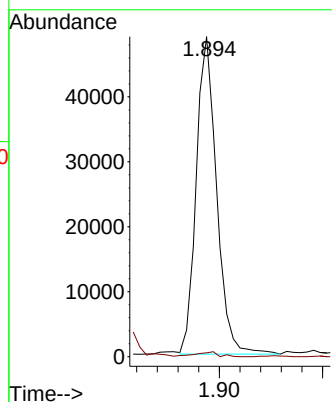
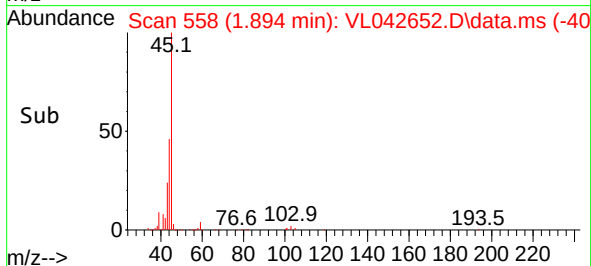
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP



Tgt Ion: 45 Resp: 3343
Ion Ratio Lower Upper
45 100
58 340.6 29.4 44.2

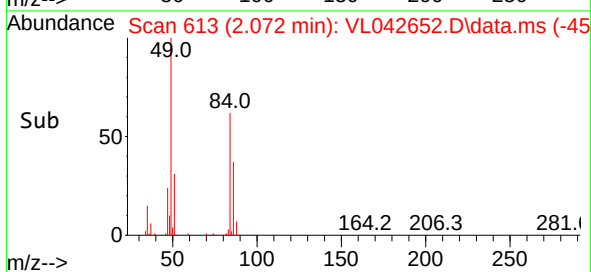
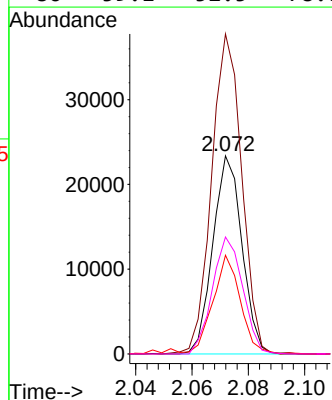
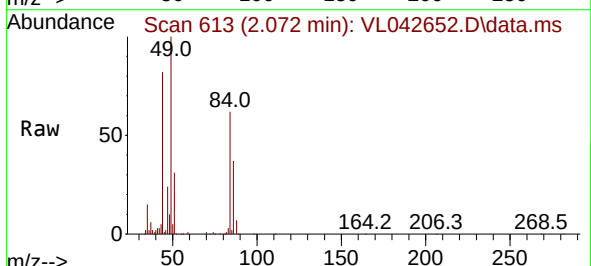
Manual Integrations
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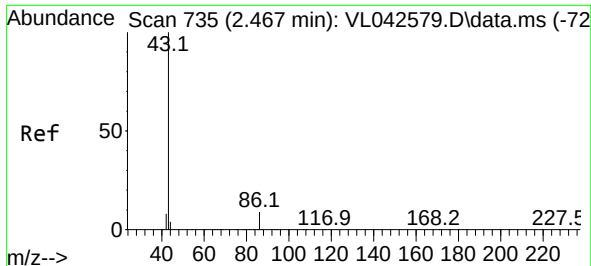
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#20
Methylene Chloride
Concen: 3.637 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.010 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

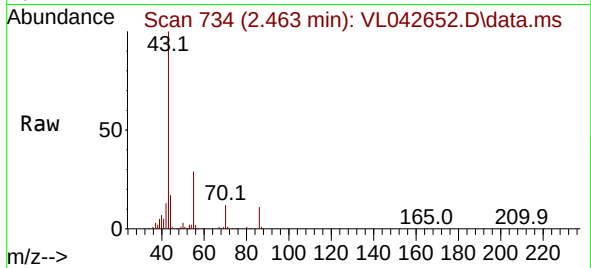
Tgt Ion: 84 Resp: 16777
Ion Ratio Lower Upper
84 100
49 161.1 128.8 193.2
51 49.8 38.6 57.8
86 59.1 52.5 78.7





#23
 Vinyl Acetate
 Concen: 1.430 ppbv m
 RT: 2.463 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP

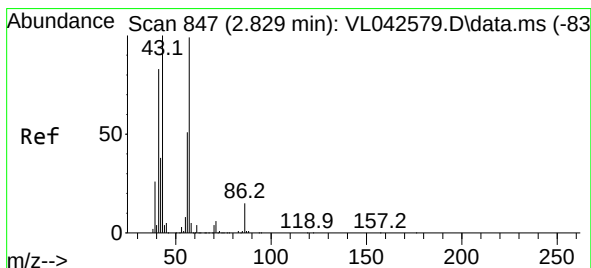
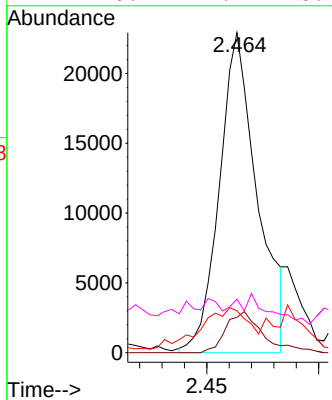
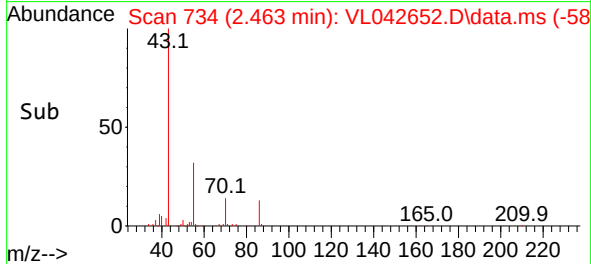


Tgt Ion: 43 Resp: 27020

Ion	Ratio	Lower	Upper
43	100		
86	11.1	6.6	9.8
42	13.1	7.0	10.4
44	16.7	4.2	6.2

Manual Integrations
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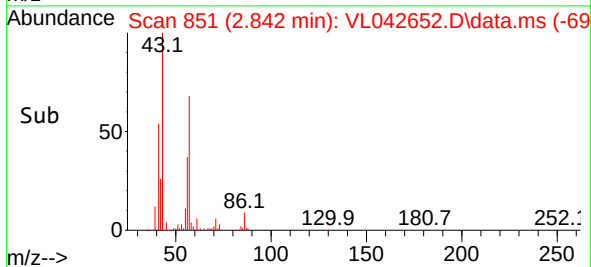
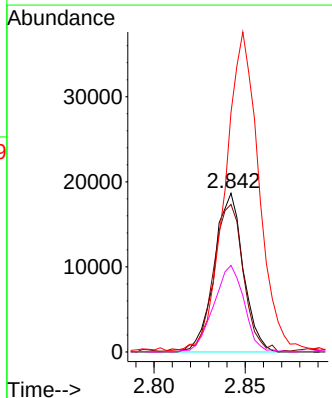
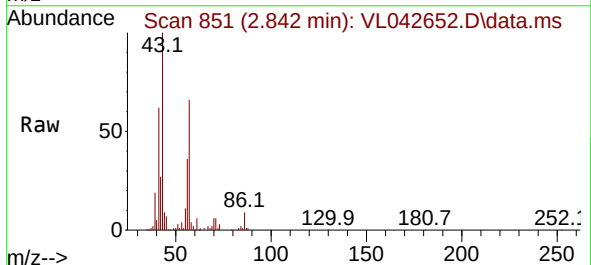
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

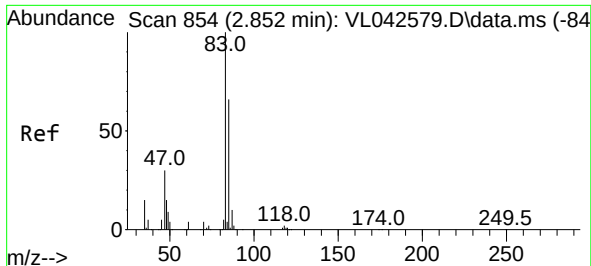


#26
 Hexane
 Concen: 1.183 ppbv
 RT: 2.842 min Scan# 851
 Delta R.T. 0.013 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

Tgt Ion: 57 Resp: 20557

Ion	Ratio	Lower	Upper
57	100		
41	97.3	70.6	106.0
43	240.7	181.1	271.7
56	58.5	42.2	63.4





#29

Chloroform

Concen: 0.277 ppbv

RT: 2.862 min Scan# 81

Delta R.T. 0.010 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

SS-1DUP

Tgt Ion: 83 Resp: 6269

Ion Ratio Lower Upper

83 100

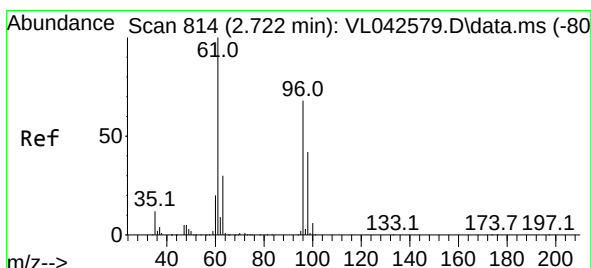
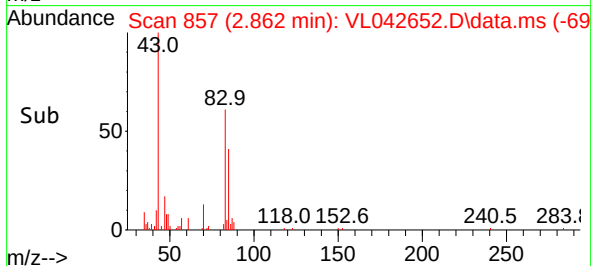
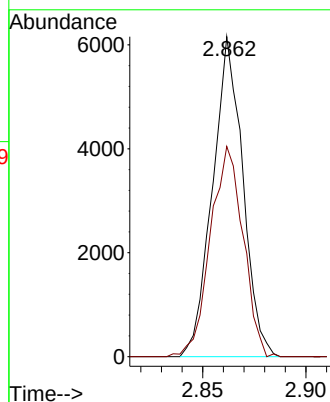
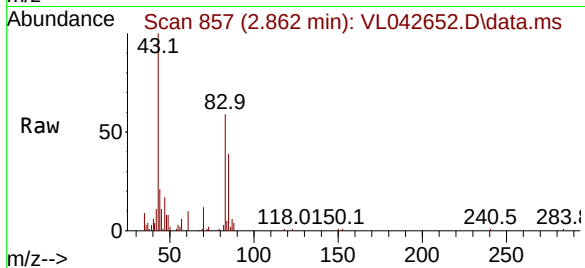
85 65.7 52.8 79.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#31

cis-1,2-Dichloroethene

Concen: 5.663 ppbv

RT: 2.735 min Scan# 818

Delta R.T. 0.013 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

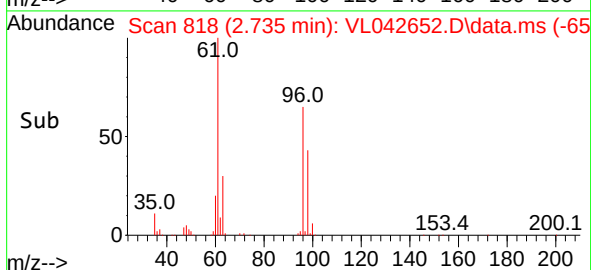
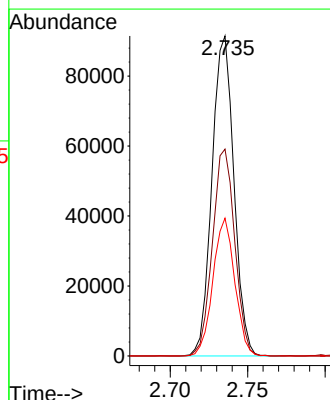
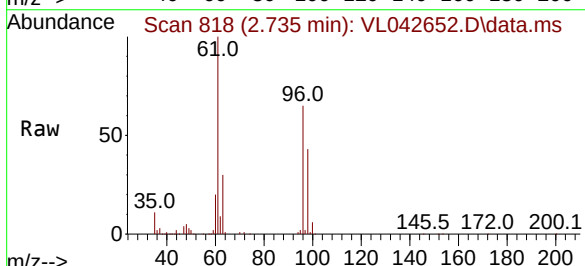
Tgt Ion: 61 Resp: 90052

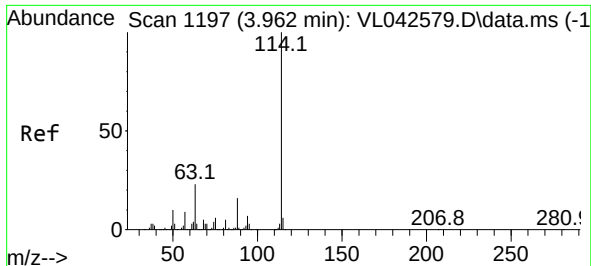
Ion Ratio Lower Upper

61 100

96 64.6 54.5 81.7

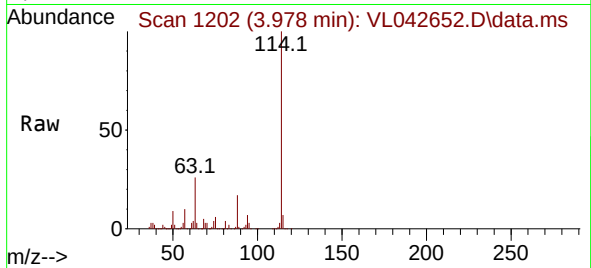
98 43.1 33.4 50.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1197
Delta R.T. 0.016 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

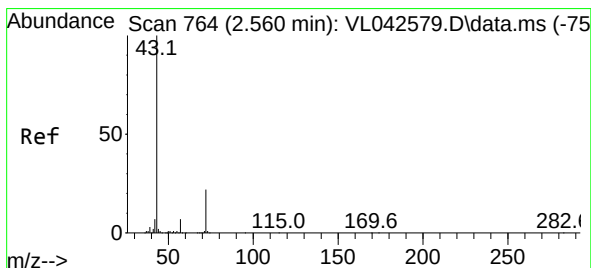
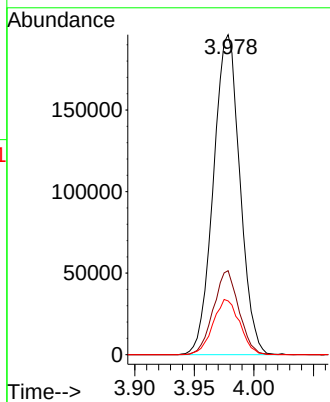
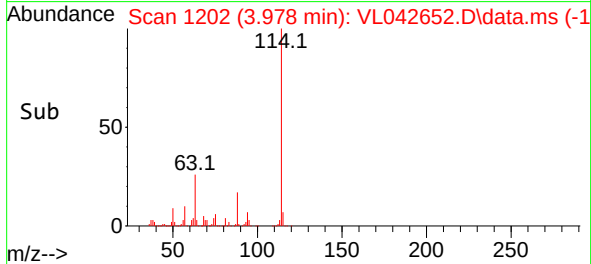
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP



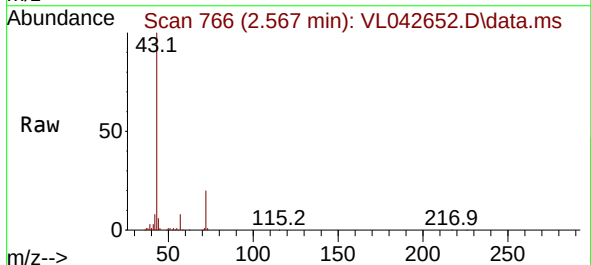
Tgt Ion:114 Resp: 302999
Ion Ratio Lower Upper
114 100
63 25.3 19.0 28.6
88 17.4 13.6 20.4

Manual Integrations
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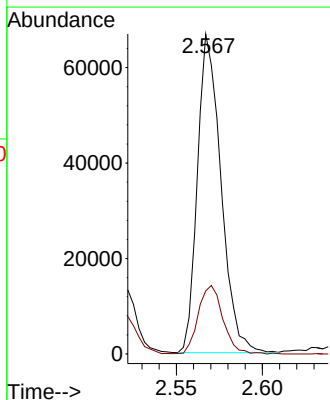
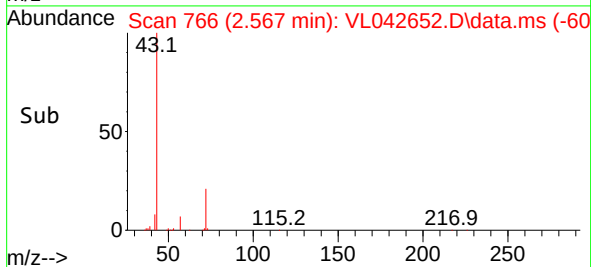
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

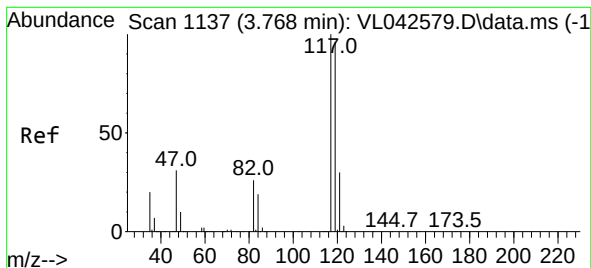


#34
2-Butanone
Concen: 2.943 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34



Tgt Ion: 43 Resp: 63602
Ion Ratio Lower Upper
43 100
72 22.5 17.7 26.5





#35

Carbon Tetrachloride

Concen: 0.126 ppbv m

RT: 3.781 min Scan# 1137

Delta R.T. 0.013 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

SS-1DUP

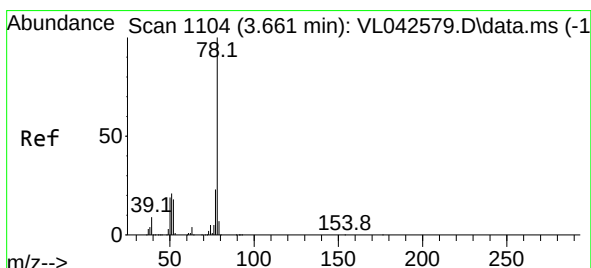
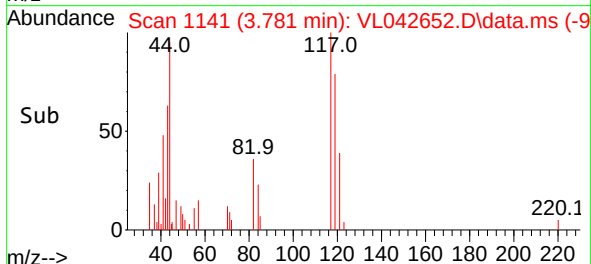
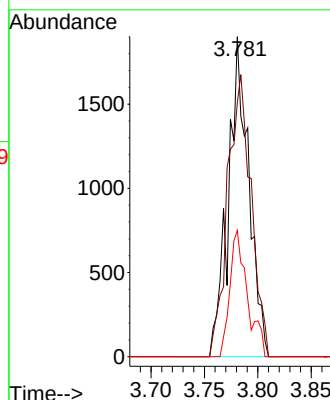
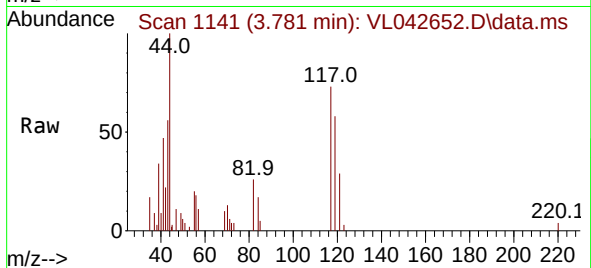
Tgt Ion: 117 Resp: 252

Ion	Ratio	Lower	Upper
117	100		
119	79.4	76.8	115.2
121	39.5	24.3	36.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#36

Benzene

Concen: 0.584 ppbv

RT: 3.674 min Scan# 1108

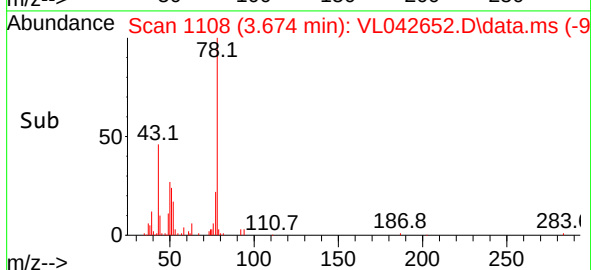
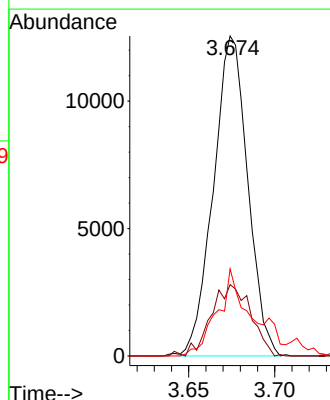
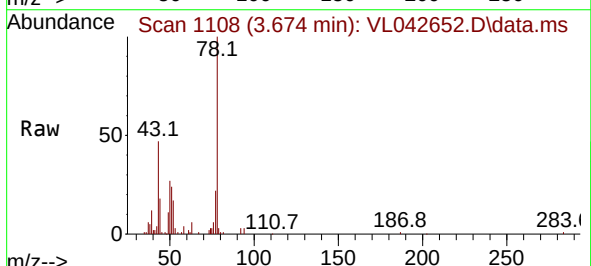
Delta R.T. 0.013 min

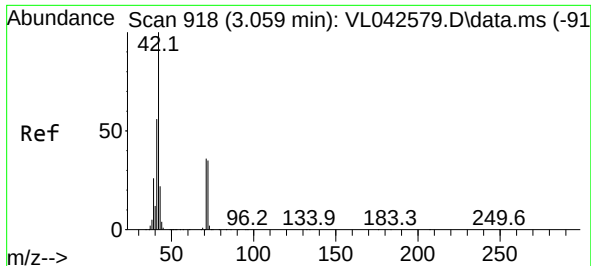
Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Tgt Ion: 78 Resp: 17420

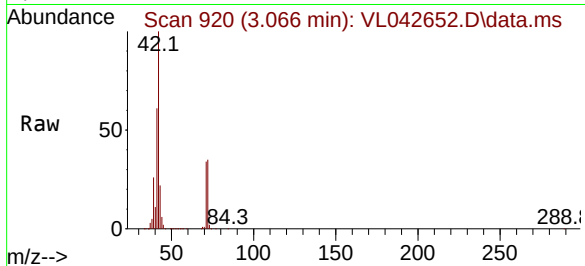
Ion	Ratio	Lower	Upper
78	100		
77	21.9	18.2	27.2
50	27.2	15.2	22.8





#41
Tetrahydrofuran
Concen: 15.454 ppbv
RT: 3.066 min Scan# 918
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

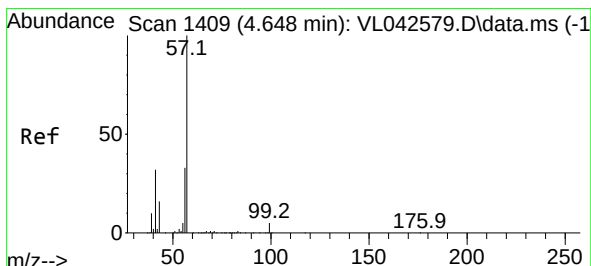
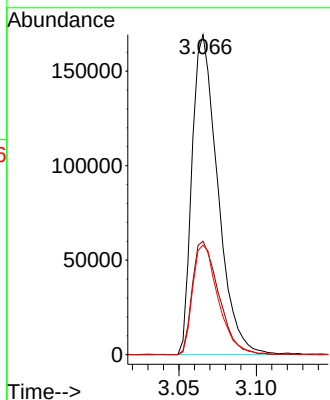
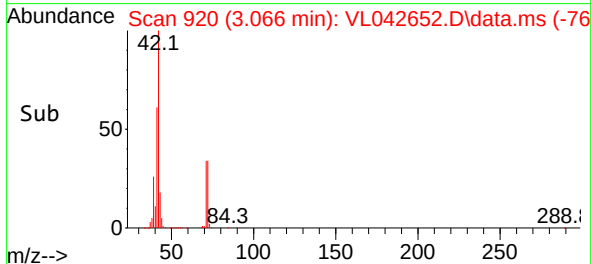
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP



Tgt Ion: 42 Resp: 195479
Ion Ratio Lower Upper
42 100
72 36.5 28.9 43.3
71 34.3 28.5 42.7

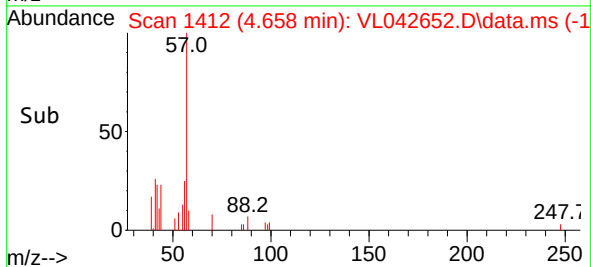
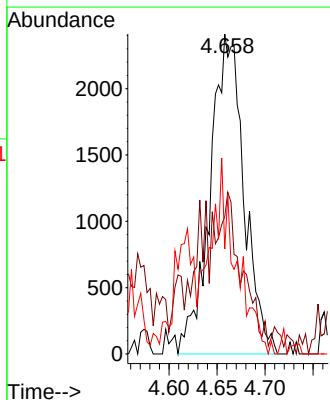
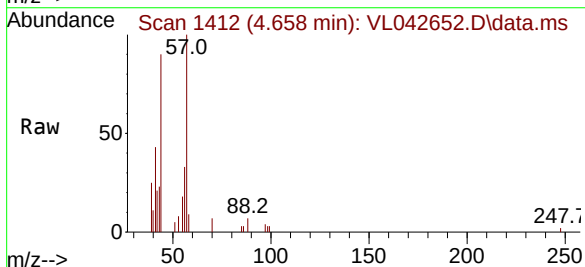
Manual Integrations
APPROVED

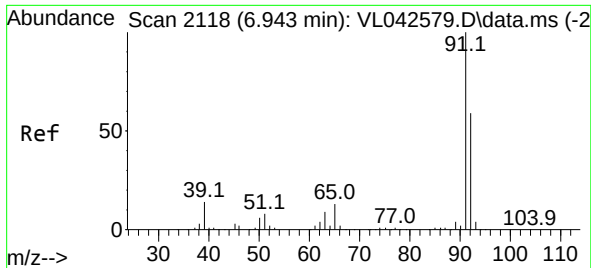
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#44
2,2,4-Trimethylpentane
Concen: 0.116 ppbv m
RT: 4.658 min Scan# 1412
Delta R.T. 0.010 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

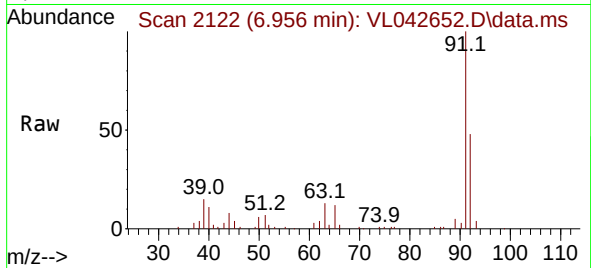
Tgt Ion: 57 Resp: 5903
Ion Ratio Lower Upper
57 100
41 0.0 26.1 39.1#
56 0.0 25.9 38.9#





#53
Toluene
Concen: 0.943 ppbv
RT: 6.956 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

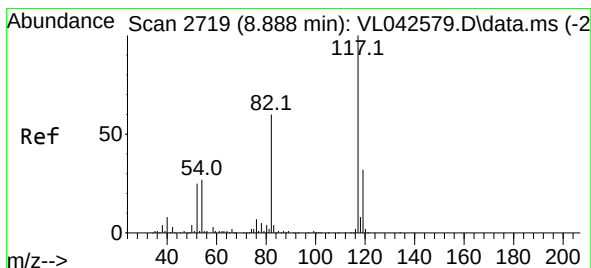
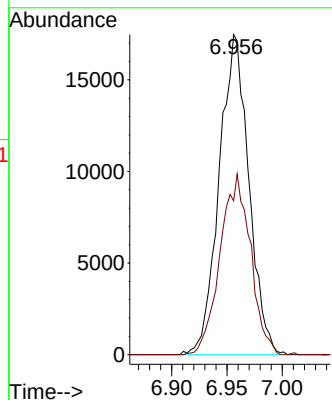
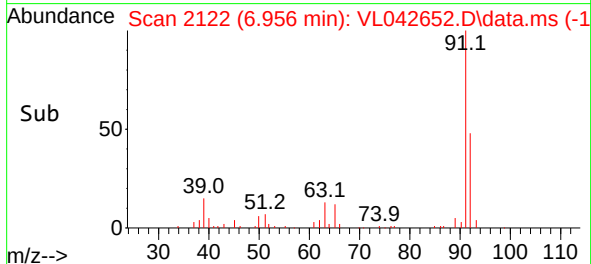
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP



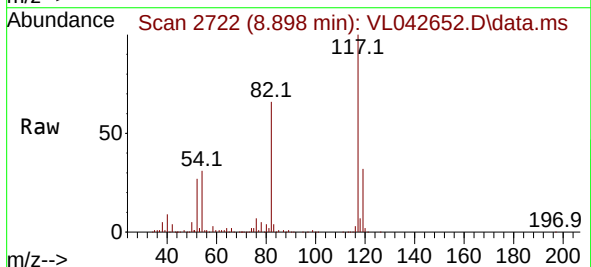
Tgt Ion: 91 Resp: 3253
Ion Ratio Lower Upper
91 100
92 57.8 48.2 72.4

Manual Integrations
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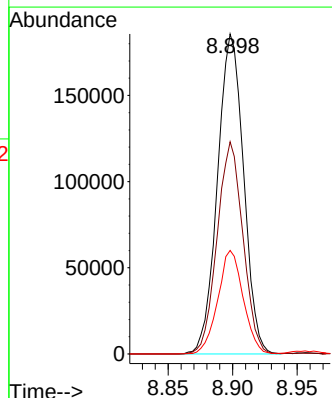
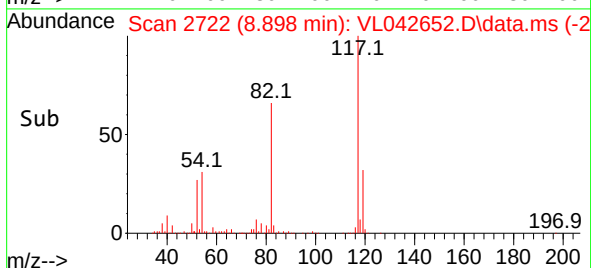
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

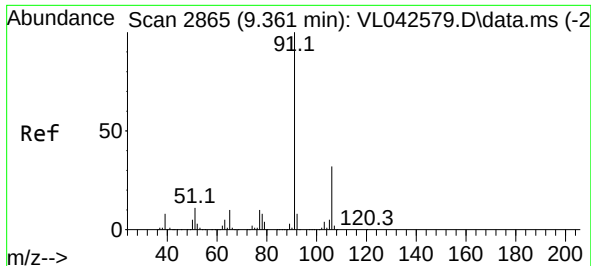


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.010 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34



Tgt Ion:117 Resp: 260992
Ion Ratio Lower Upper
117 100
82 66.1 51.2 76.8
119 31.5 26.3 39.5





#58

Ethyl Benzene

Concen: 0.551 ppbv m

RT: 9.367 min Scan# 21

Delta R.T. 0.007 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

SS-1DUP

Tgt Ion: 91 Resp: 2438

Ion Ratio Lower Upper

91 100

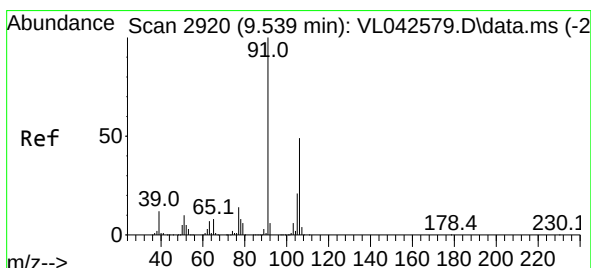
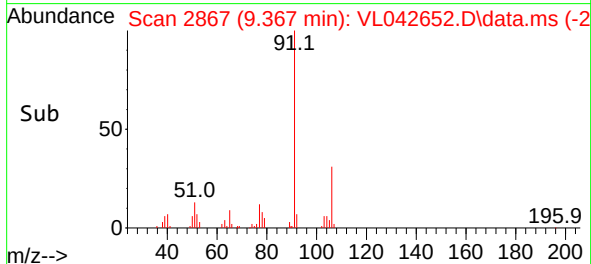
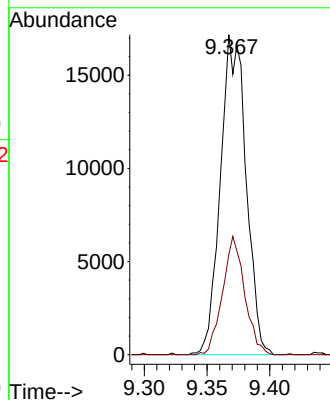
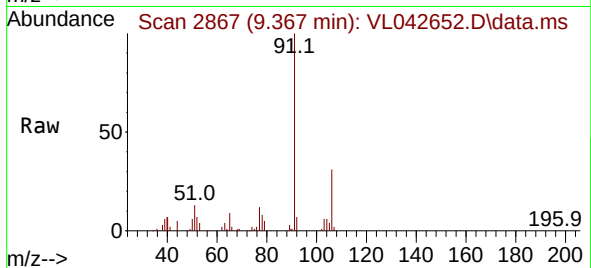
106 31.4 25.9 38.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#59

m/p-Xylene

Concen: 3.054 ppbv

RT: 9.545 min Scan# 2922

Delta R.T. 0.007 min

Lab File: VL042652.D

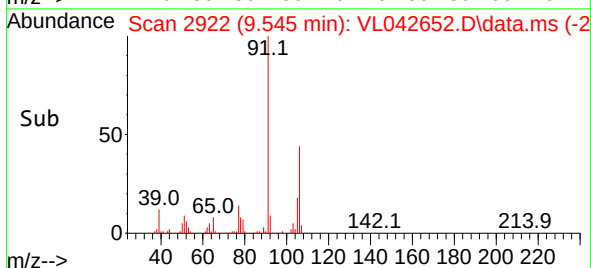
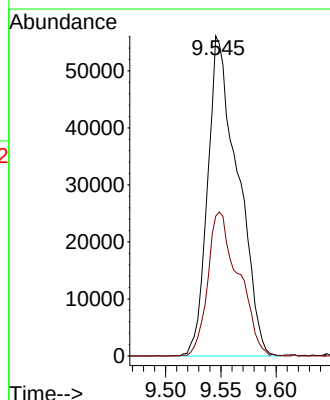
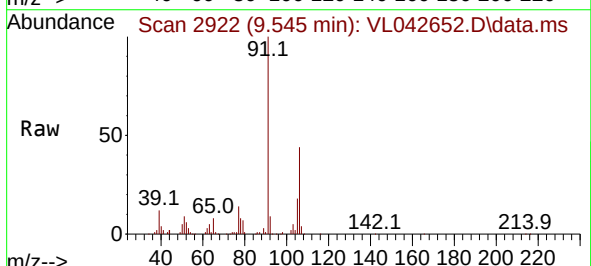
Acq: 19 Jun 2025 12:34

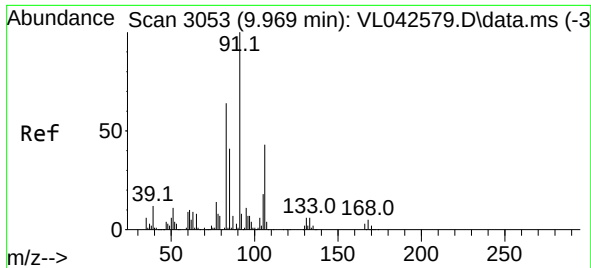
Tgt Ion: 91 Resp: 106408

Ion Ratio Lower Upper

91 100

106 45.9 38.8 58.2





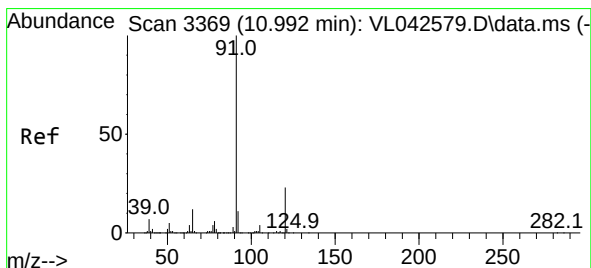
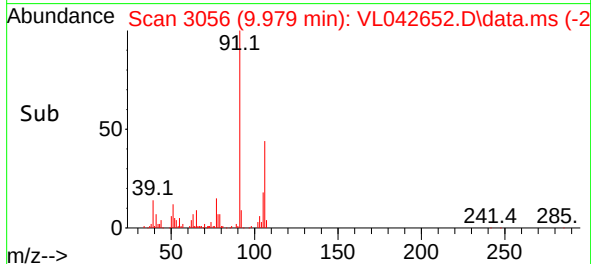
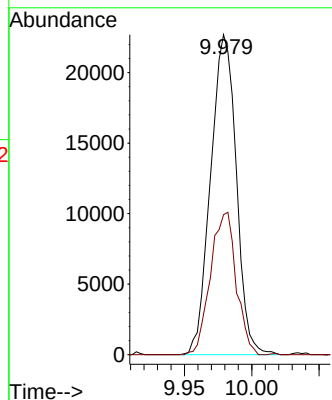
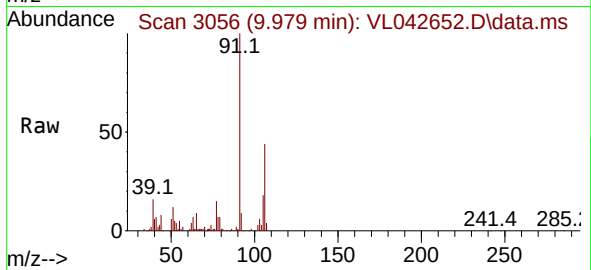
#60
o-Xylene
Concen: 0.865 ppbv
RT: 9.979 min Scan# 3053
Delta R.T. 0.010 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

Tgt Ion: 91 Resp: 3006
Ion Ratio Lower Upper
91 100
106 44.7 22.9 68.5

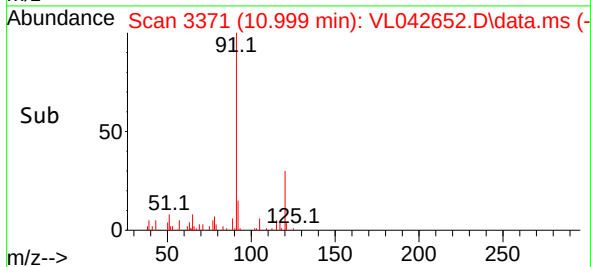
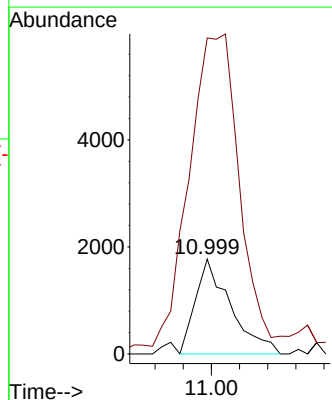
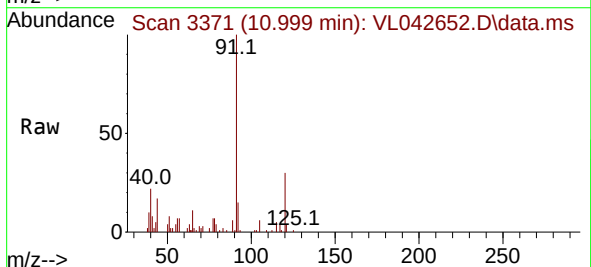
Manual Integrations
APPROVED

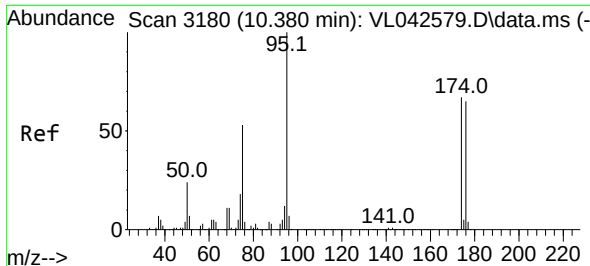
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#64
n-propylbenzene
Concen: 0.112 ppbv
RT: 10.999 min Scan# 3371
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

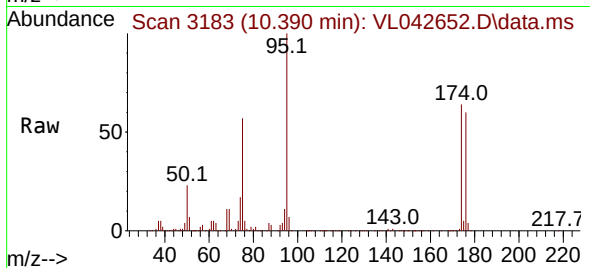
Tgt Ion:120 Resp: 1547
Ion Ratio Lower Upper
120 100
91 511.4 363.0 544.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.383 ppbv
RT: 10.390 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

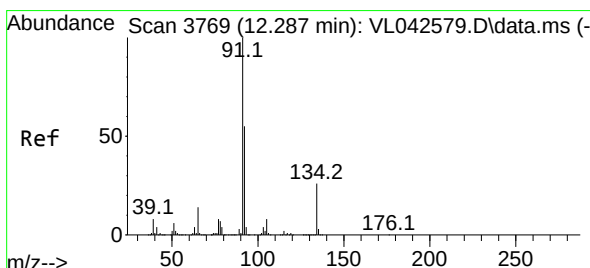
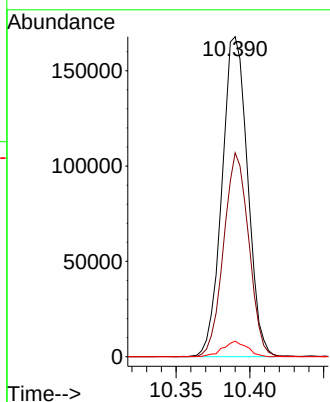
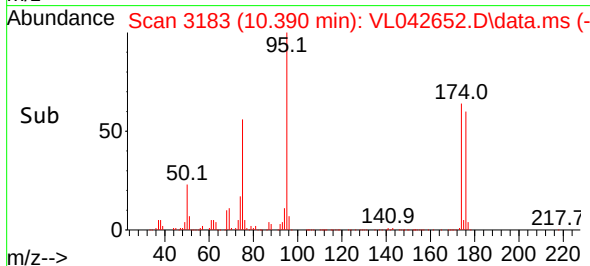
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP



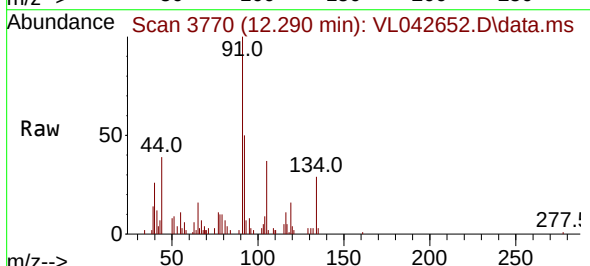
Tgt Ion: 95 Resp: 20314
Ion Ratio Lower Upper
95 100
174 62.3 53.1 79.7
175 4.6 4.2 6.2

Manual Integrations
APPROVED

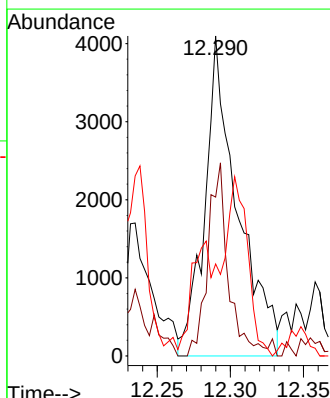
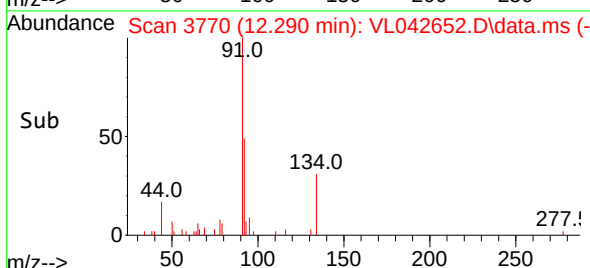
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

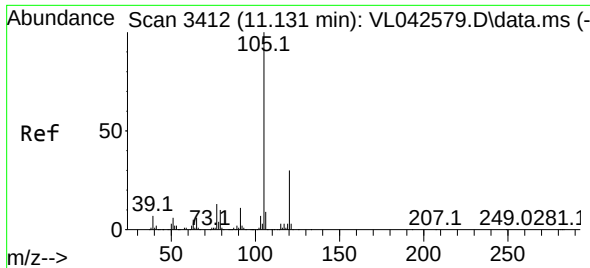


#70
n-Butylbenzene
Concen: 0.118 ppbv m
RT: 12.290 min Scan# 3770
Delta R.T. 0.003 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34



Tgt Ion: 91 Resp: 6364
Ion Ratio Lower Upper
91 100
92 38.4 44.4 66.6#
134 64.7 20.1 30.1#





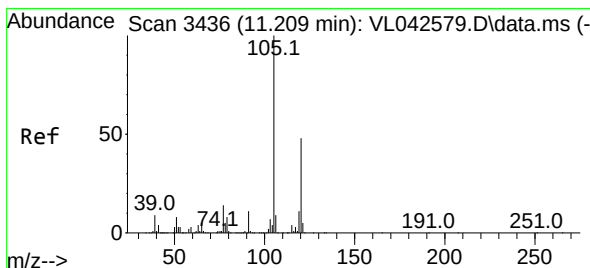
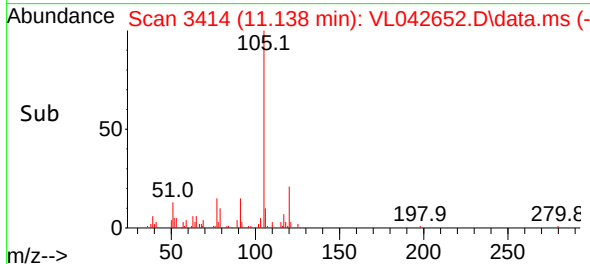
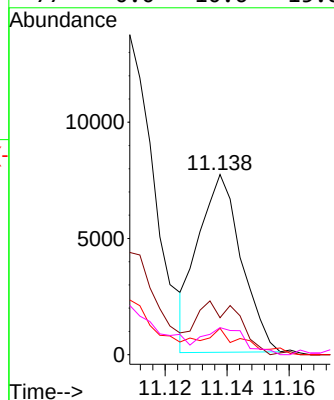
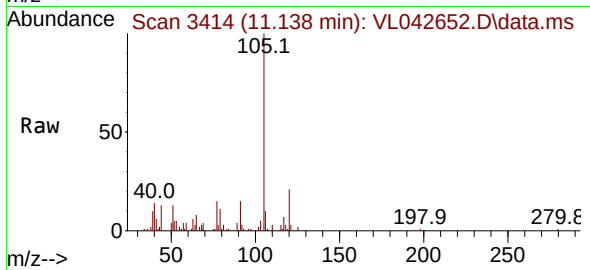
#72
4-Ethyltoluene
Concen: 0.171 ppbv
RT: 11.138 min Scan# 3412
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

Tgt Ion:105	Resp:	740
Ion Ratio	Lower	Upper
105	100	
120	0.0	24.6 36.8
91	0.0	9.6 14.4
77	0.0	10.6 15.8

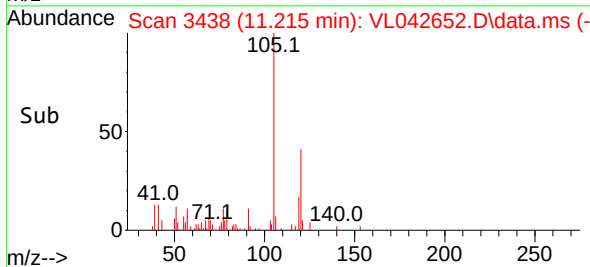
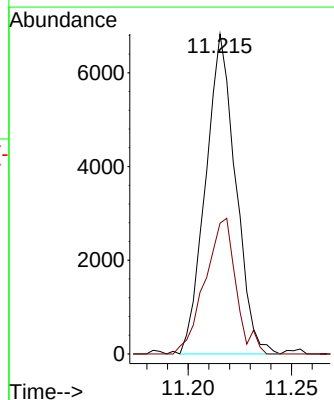
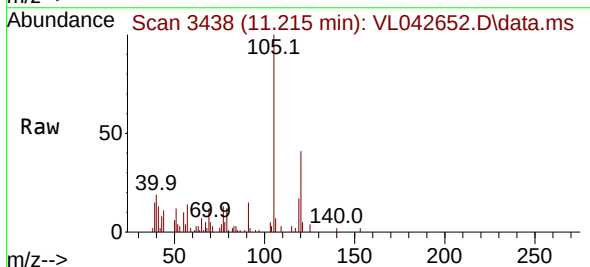
Manual Integrations
APPROVED

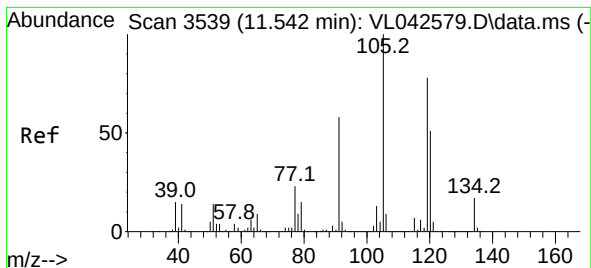
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.193 ppbv
RT: 11.215 min Scan# 3438
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion:105	Resp:	6906
Ion Ratio	Lower	Upper
105	100	
120	40.9	38.8 58.2





#74

1,2,4-Trimethylbenzene

Concen: 0.898 ppbv

RT: 11.549 min Scan# 3573

Delta R.T. 0.007 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

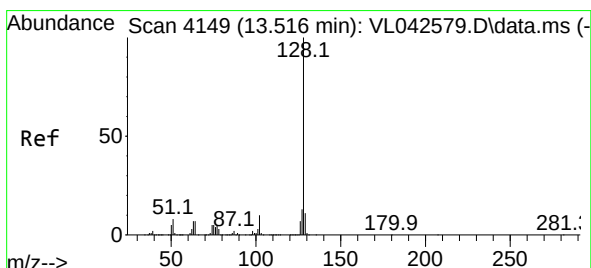
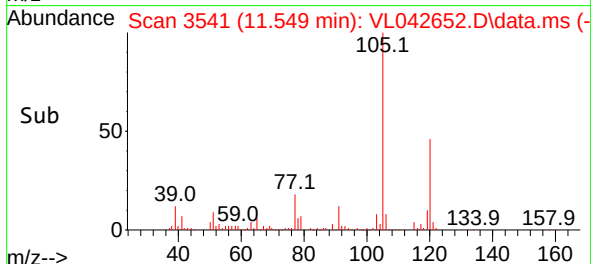
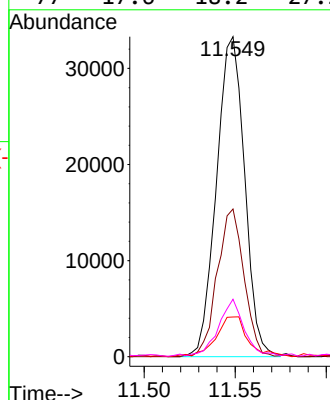
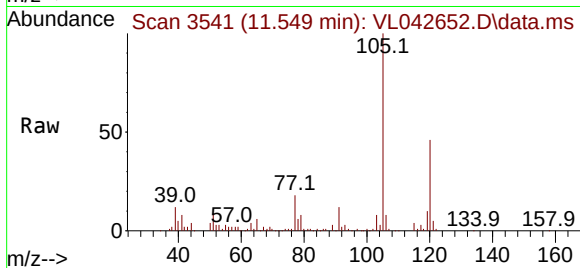
SS-1DUP

Tgt Ion:	105	Resp:	3573
Ion Ratio	Lower	Upper	
105	100		
120	46.2	40.8	61.2
91	11.9	46.8	70.2
77	17.6	18.2	27.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#79

Naphthalene

Concen: 0.507 ppbv

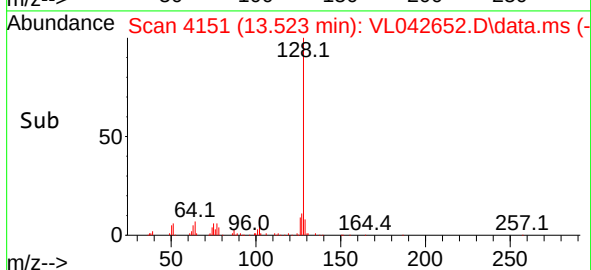
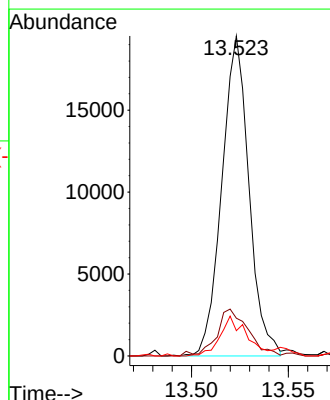
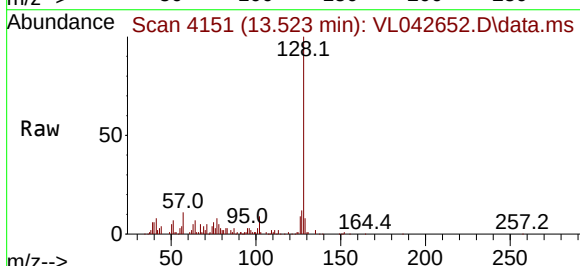
RT: 13.523 min Scan# 4151

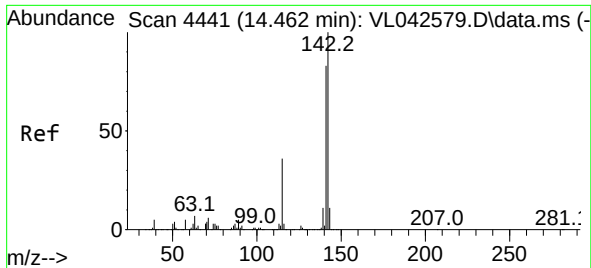
Delta R.T. 0.007 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

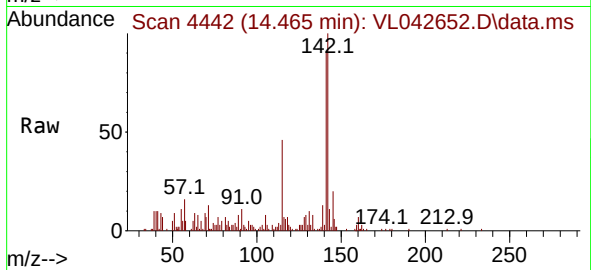
Tgt Ion:	128	Resp:	19001
Ion Ratio	Lower	Upper	
128	100		
127	11.8	10.2	15.4
129	7.9	8.8	13.2





#80
Naphthalene, 2-methyl-
Concen: 0.734 ppbv m
RT: 14.465 min Scan# 44
Delta R.T. 0.003 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

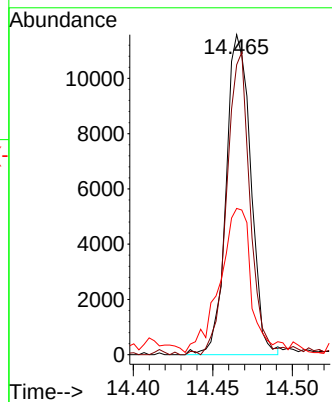
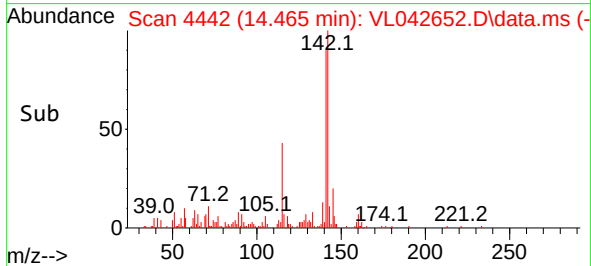
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP



Tgt Ion:142 Resp: 1244
Ion Ratio Lower Upper
142 100
141 62.2 66.2 99.4
115 29.6 28.3 42.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



Manual Integration Report

Sequence:	VL052925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042579.D	Ethanol	SAM	5/30/2025 7:46:58 AM	MMDadoda	5/30/2025 12:25:20 PM	Peak Integrated by Software
VSTDICCC010	VL042579.D	m/p-Xylene	SAM	5/30/2025 7:46:58 AM	MMDadoda	5/30/2025 12:25:20 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	1,4-Dioxane	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	Ethanol	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	m/p-Xylene	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	Methyl Methacrylate	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	1,1,2-Trichloroethane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	1,4-Dioxane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	2,2,4-Trimethylpentane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	cis-1,3-Dichloropropene	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	Heptane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	m/p-Xylene	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL052925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC001	VL042581.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	1,1,2-Trichloroethane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	1,2-Dichloropropane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	1,4-Dioxane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	4-Methyl-2-Pentanone	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	Benzyl Chloride	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	cis-1,3-Dichloropropene	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	Cyclohexane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	Dibromochloromethane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	Ethanol	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	m/p-Xylene	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.1	VL042583.D	1,2-Dibromoethane	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software
VSTDIC0.1	VL042583.D	Naphthalene	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl052925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC0.1	VL042583.D	Tetrachloroethene	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software
VSTDIC0.1	VL042583.D	Trichloroethene	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software
VSTDIC0.03	VL042584.D	1,1,1-Trichloroethane	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDIC0.03	VL042584.D	Carbon Tetrachloride	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDIC0.03	VL042584.D	Tetrachloroethene	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDIC0.03	VL042584.D	Trichloroethene	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDIC015	VL042585.D	Ethanol	SAM	5/30/2025 7:48:19 AM	MMDadoda	5/30/2025 12:25:32 PM	Peak Integrated by Software
VSTDIC015	VL042585.D	m/p-Xylene	SAM	5/30/2025 7:48:19 AM	MMDadoda	5/30/2025 12:25:32 PM	Peak Integrated by Software
VSTDICV010	VL042586.D	Ethanol	SAM	5/30/2025 7:48:25 AM	MMDadoda	5/30/2025 12:25:34 PM	Peak Integrated by Software
VSTDICV010	VL042586.D	m/p-Xylene	SAM	5/30/2025 7:48:25 AM	MMDadoda	5/30/2025 12:25:34 PM	Peak Integrated by Software
VSTDICV010	VL042586.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:48:25 AM	MMDadoda	5/30/2025 12:25:34 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL061925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042647.D	m/p-Xylene	SAM	6/23/2025 7:55:57 AM	MMDadoda	6/23/2025 1:16:41 PM	Peak Integrated by Software
VL0619ABS01	VL042649.D	m/p-Xylene	SAM	6/23/2025 7:56:11 AM	MMDadoda	6/23/2025 1:16:45 PM	Peak Integrated by Software
Q2359-01DL	VL042650.D	Chloromethane	SAM	6/23/2025 7:56:55 AM	MMDadoda	6/23/2025 1:16:48 PM	Peak Integrated by Software
Q2359-01DL	VL042650.D	Heptane	SAM	6/23/2025 7:56:55 AM	MMDadoda	6/23/2025 1:16:48 PM	Peak Integrated by Software
Q2359-01DL	VL042650.D	m/p-Xylene	SAM	6/23/2025 7:56:55 AM	MMDadoda	6/23/2025 1:16:48 PM	Peak Integrated by Software
Q2359-01	VL042651.D	2,2,4-Trimethylpentane	SAM	6/23/2025 7:56:21 AM	MMDadoda	6/23/2025 1:16:50 PM	Peak Integrated by Software
Q2359-01	VL042651.D	Chlorodifluoromethane	SAM	6/23/2025 7:56:21 AM	MMDadoda	6/23/2025 1:16:50 PM	Peak Integrated by Software
Q2359-01	VL042651.D	n-Butylbenzene	SAM	6/23/2025 7:56:21 AM	MMDadoda	6/23/2025 1:16:50 PM	Peak Integrated by Software
Q2359-01	VL042651.D	Vinyl Acetate	SAM	6/23/2025 7:56:21 AM	MMDadoda	6/23/2025 1:16:50 PM	Peak Integrated by Software
Q2359-01	VL042651.D	Vinyl Chloride	SAM	6/23/2025 7:56:21 AM	MMDadoda	6/23/2025 1:16:50 PM	Peak Integrated by Software
Q2359-01DUP	VL042652.D	2,2,4-Trimethylpentane	SAM	6/23/2025 7:57:00 AM	MMDadoda	6/23/2025 1:16:54 PM	Peak Integrated by Software
Q2359-01DUP	VL042652.D	Carbon Tetrachloride	SAM	6/23/2025 7:57:00 AM	MMDadoda	6/23/2025 1:16:54 PM	Peak Integrated by Software
Q2359-01DUP	VL042652.D	Chlorodifluoromethane	SAM	6/23/2025 7:57:00 AM	MMDadoda	6/23/2025 1:16:54 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL061925

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2359-01DUP	VL042652.D	Ethyl Benzene	SAM	6/23/2025 7:57:00 AM	MMDadoda	6/23/2025 1:16:54 PM	Peak Integrated by Software
Q2359-01DUP	VL042652.D	n-Butylbenzene	SAM	6/23/2025 7:57:00 AM	MMDadoda	6/23/2025 1:16:54 PM	Peak Integrated by Software
Q2359-01DUP	VL042652.D	Naphthalene,2-methyl-	SAM	6/23/2025 7:57:00 AM	MMDadoda	6/23/2025 1:16:54 PM	Peak Integrated by Software
Q2359-01DUP	VL042652.D	Vinyl Acetate	SAM	6/23/2025 7:57:00 AM	MMDadoda	6/23/2025 1:16:54 PM	Peak Integrated by Software
Q2359-01DUP	VL042652.D	Vinyl Chloride	SAM	6/23/2025 7:57:00 AM	MMDadoda	6/23/2025 1:16:54 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Maresh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2629				
Initial Calibration Stds	AP2623,AP2625,AP2626				
CCC	AP2623				
Internal Standard/PEM	AP2629				
ICV/I.BLK	AP2627				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042578.D	29 May 2025 08:05	SY/MD	Ok
2	VSTDICCC010	VL042579.D	29 May 2025 11:09	SY/MD	Ok,M
3	VSTDICCC002	VL042580.D	29 May 2025 11:43	SY/MD	Ok,M
4	VSTDICCC001	VL042581.D	29 May 2025 12:15	SY/MD	Ok,M
5	VSTDICCC0.5	VL042582.D	29 May 2025 12:47	SY/MD	Ok,M
6	VSTDICCC0.1	VL042583.D	29 May 2025 13:19	SY/MD	Ok,M
7	VSTDICCC0.03	VL042584.D	29 May 2025 13:51	SY/MD	Ok,M
8	VSTDICCC015	VL042585.D	29 May 2025 14:24	SY/MD	Ok,M
9	VSTDICV010	VL042586.D	29 May 2025 14:56	SY/MD	Ok,M
10	VL0529ABL01	VL042587.D	29 May 2025 15:44	SY/MD	Not Ok
11	VL0529ABL02	VL042588.D	29 May 2025 16:50	SY/MD	Ok
12	Q2124-01	VL042589.D	29 May 2025 17:22	SY/MD	Dilution
13	Q2124-01DL	VL042590.D	29 May 2025 17:55	SY/MD	Ok,M
14	VL0529ABS01	VL042591.D	29 May 2025 18:27	SY/MD	Ok,M
15	Q2124-02	VL042592.D	29 May 2025 19:00	SY/MD	Ok,M
16	Q2124-02DL	VL042593.D	29 May 2025 19:32	SY/MD	Not Ok
17	Q2124-03	VL042594.D	29 May 2025 20:05	SY/MD	Ok,M
18	Q2124-03DL	VL042595.D	29 May 2025 20:37	SY/MD	Not Ok
19	Q2124-01DUP	VL042596.D	29 May 2025 21:10	SY/MD	Not Ok
20	QC052725 CAN 10609	VL042597.D	29 May 2025 21:44	SY/MD	Not Ok
21	QC052725 CAN 10609	VL042598.D	29 May 2025 22:18	SY/MD	Ok

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Maresh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2629			
Initial Calibration Stds		AP2623,AP2625,AP2626			
CCC		AP2623			
Internal Standard/PEM		AP2629			
ICV/I.BLK		AP2627			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	CAN10053	VL042599.D	29 May 2025 22:52	SY/MD	Ok
23	QC05225 CAN 10154	VL042600.D	29 May 2025 23:26	SY/MD	Ok
24	Q2124-01DUP	VL042601.D	29 May 2025 23:58	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL061925

Review By	Semsettin Yesilyurt	Review On	6/23/2025 8:05:26 AM		
Supervise By	Maresh Dadoda	Supervise On	6/23/2025 1:17:37 PM		
SubDirectory	VL061925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2629				
Initial Calibration Stds	AP2623,AP2625,AP2626				
CCC	AP2623				
Internal Standard/PEM	AP2629				
ICV/I.BLK	AP2627				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042646.D	19 Jun 2025 08:10	SY/MD	Ok
2	VSTDCCC010	VL042647.D	19 Jun 2025 08:56	SY/MD	Ok,M
3	VL0619ABL01	VL042648.D	19 Jun 2025 09:42	SY/MD	Ok
4	VL0619ABS01	VL042649.D	19 Jun 2025 10:26	SY/MD	Ok,M
5	Q2359-01DL	VL042650.D	19 Jun 2025 11:09	SY/MD	Ok,M
6	Q2359-01	VL042651.D	19 Jun 2025 11:58	SY/MD	Dilution
7	Q2359-01DUP	VL042652.D	19 Jun 2025 12:34	SY/MD	Ok,M
8	Q2369-02	VL042653.D	19 Jun 2025 13:37	SY/MD	Ok,M
9	Q2368-02	VL042654.D	19 Jun 2025 14:36	SY/MD	Dilution
10	Q2368-01	VL042655.D	19 Jun 2025 15:09	SY/MD	Ok,M
11	Q2368-01DL	VL042656.D	19 Jun 2025 15:43	SY/MD	Not Ok
12	Q2369-01	VL042657.D	19 Jun 2025 16:17	SY/MD	Dilution
13	Q2369-01DL	VL042658.D	19 Jun 2025 16:52	SY/MD	Ok,M
14	VIBLK	VL042659.D	19 Jun 2025 17:26	SY/MD	Ok
15	Q2368-02DL	VL042660.D	19 Jun 2025 18:00	SY/MD	Ok,M
16	Q2368-01DUP	VL042661.D	20 Jun 2025 07:50	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM
Supervise By	Maresh Dadoda	Supervise On	5/30/2025 12:26:19 PM
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL052925AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2629		
Initial Calibration Stds	AP2623,AP2625,AP2626		
CCC	AP2623		
Internal Standard/PEM	AP2629		
ICV/I.BLK	AP2627		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042578.D	29 May 2025 08:05		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042579.D	29 May 2025 11:09		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042580.D	29 May 2025 11:43		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042581.D	29 May 2025 12:15		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042582.D	29 May 2025 12:47		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042583.D	29 May 2025 13:19		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042584.D	29 May 2025 13:51		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042585.D	29 May 2025 14:24		SY/MD	Ok,M
9	VSTDICV010	ICVVL052925	VL042586.D	29 May 2025 14:56	comp#13 fail	SY/MD	Ok,M
10	VL0529ABL01	VL0529ABL01	VL042587.D	29 May 2025 15:44	carryover	SY/MD	Not Ok
11	VL0529ABL02	VL0529ABL02	VL042588.D	29 May 2025 16:50		SY/MD	Ok
12	Q2124-01	SV1	VL042589.D	29 May 2025 17:22	Need 20X	SY/MD	Dilution
13	Q2124-01DL	SV1DL	VL042590.D	29 May 2025 17:55		SY/MD	Ok,M
14	VL0529ABS01	VL0529ABS01	VL042591.D	29 May 2025 18:27		SY/MD	Ok,M
15	Q2124-02	SV2	VL042592.D	29 May 2025 19:00		SY/MD	Ok,M
16	Q2124-02DL	SV2DL	VL042593.D	29 May 2025 19:32	Not Required	SY/MD	Not Ok
17	Q2124-03	SV3	VL042594.D	29 May 2025 20:05		SY/MD	Ok,M
18	Q2124-03DL	SV3DL	VL042595.D	29 May 2025 20:37	Not Required	SY/MD	Not Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2629				
Initial Calibration Stds	AP2623,AP2625,AP2626				
CCC	AP2623				
Internal Standard/PEM	AP2629				
ICV/I.BLK	AP2627				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2124-01DUP	SV1DUP	VL042596.D	29 May 2025 21:10	wrong purge	SY/MD	Not Ok
20	QC052725 CAN 10609	QC052725 CAN 10609	VL042597.D	29 May 2025 21:44	Contaminated	SY/MD	Not Ok
21	QC052725 CAN 10609	QC052725 CAN 10609	VL042598.D	29 May 2025 22:18		SY/MD	Ok
22	CAN10053	CAN10053	VL042599.D	29 May 2025 22:52		SY/MD	Ok
23	QC05225 CAN 10154	QC05225 CAN 10154	VL042600.D	29 May 2025 23:26		SY/MD	Ok
24	Q2124-01DUP	SV1DUP	VL042601.D	29 May 2025 23:58		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL061925

Review By	Semsettin Yesilyurt	Review On	6/23/2025 8:05:26 AM
Supervise By	Maresh Dadoda	Supervise On	6/23/2025 1:17:37 PM
SubDirectory	VL061925	HP Acquire Method	TO15AIR.M HP Processing Method VL052925AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2629
Initial Calibration Stds	AP2623,AP2625,AP2626
CCC	AP2623
Internal Standard/PEM	AP2629
ICV/I.BLK	AP2627
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042646.D	19 Jun 2025 08:10		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042647.D	19 Jun 2025 08:56		SY/MD	Ok,M
3	VL0619ABL01	VL0619ABL01	VL042648.D	19 Jun 2025 09:42		SY/MD	Ok
4	VL0619ABS01	VL0619ABS01	VL042649.D	19 Jun 2025 10:26		SY/MD	Ok,M
5	Q2359-01DL	SS-1DL	VL042650.D	19 Jun 2025 11:09		SY/MD	Ok,M
6	Q2359-01	SS-1	VL042651.D	19 Jun 2025 11:58	Need 10X	SY/MD	Dilution
7	Q2359-01DUP	SS-1DUP	VL042652.D	19 Jun 2025 12:34		SY/MD	Ok,M
8	Q2369-02	IA1	VL042653.D	19 Jun 2025 13:37		SY/MD	Ok,M
9	Q2368-02	IA1	VL042654.D	19 Jun 2025 14:36	Need 40X	SY/MD	Dilution
10	Q2368-01	SV1	VL042655.D	19 Jun 2025 15:09		SY/MD	Ok,M
11	Q2368-01DL	SV1DL	VL042656.D	19 Jun 2025 15:43	Not required	SY/MD	Not Ok
12	Q2369-01	SV1	VL042657.D	19 Jun 2025 16:17	Need 40X	SY/MD	Dilution
13	Q2369-01DL	SV1DL	VL042658.D	19 Jun 2025 16:52		SY/MD	Ok,M
14	VIBLK	VIBLK	VL042659.D	19 Jun 2025 17:26		SY/MD	Ok
15	Q2368-02DL	IA1DL	VL042660.D	19 Jun 2025 18:00		SY/MD	Ok,M
16	Q2368-01DUP	SV1DUP	VL042661.D	20 Jun 2025 07:50		SY/MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q2359

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: VL061925,

Standard ID :

AP2623,AP2625,AP2626,AP2627,AP2629,

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>
2396	TO-15 15 PPBV CAL MIX	AP2623	05/27/2025	06/27/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/20/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1137 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2397	TO-15 -2 PPBV CAL.MIX	AP2625	05/28/2025	06/27/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/20/2025

FROM 26.00000psi of A1117 + 4.00000psi of AP2623 = 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	AP2626	05/28/2025	06/27/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/20/2025

FROM 29.00000psi of A1117 + 1.00000psi of AP2623 = 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	AP2627	05/28/2025	06/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/20/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1136 = Final Quantity: 30.000 psi

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
47	Internal Standard/Surrogate Mix-80 ppbv	AP2629	05/29/2025	06/29/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/20/2025

FROM 2.40000psi of A1135 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
AIR LIQUIDE	365A-49 / AIR, Compressed	90402401186-01	04/01/2026	04/01/2022 / apatel	04/01/2022 / SAM	A1117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TB500009-110 / TO-15 Internal Standard/Surrogate Standard	BC275465	07/16/2025	07/22/2024 / SAM	07/22/2024 / SAM	A1135

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	040424-003A	07/16/2025	07/25/2024 / SAM	07/22/2024 / SAM	A1136

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	040424-003B	07/16/2025	07/25/2024 / SAM	07/22/2024 / SAM	A1137

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard

Durham, NC 27704

Phone: (919) 220-2570

Fax: (919) 220-4540

Certificate of Analysis

Customer:

Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Tel: (908) 789-8900

Cylinder Number: BC275465
Cylinder Size/CGA: 170/180SS
Fill Pressure: 1815 PSIA
Gas Volume: ~170 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025

Ship To : Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Bromochloromethane	1 ppm	1.014 ppm +/- 0.02 ppm	Gravimetric Master Gas
4-Bromofluorobenzene	1 ppm	1.008 ppm +/- 0.02 ppm	
Chlorobenzene-D5	1 ppm	0.993 ppm +/- 0.02 ppm	
1,4-Difluorobenzene	1 ppm	0.979 ppm +/- 0.02 ppm	
Nitrogen	balance	balance	

NOTES: Blend Tolerance: +/- 10 %

Analytical Tolerance: +/- 5 %

Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis

Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.

Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

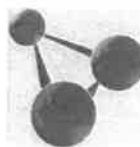
Signature:

Date: 07/16/2024

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS

SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountainside, NJ 07092

Cylinder Number: BC917782
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025
Lot Number: 040424-003A

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	517 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	534 ppb +/- 50 ppb	
Acrolein	500 ppb	545 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	539 ppb +/- 50 ppb	-
Allyl chloride	500 ppb	509 ppb +/- 50 ppb	
Benzene	500 ppb	483 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	489 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	509 ppb +/- 50 ppb	
Bromoform	500 ppb	495 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	504 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	532 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	485 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	506 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	491 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	488 ppb +/- 50 ppb	
Chloroform	500 ppb	492 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	532 ppb +/- 50 ppb	
Cyclohexane	500 ppb	482 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	491 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	510 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	489 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	490 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	508 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	492 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	497 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	493 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	488 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	488 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	490 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	516 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	466 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	505 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	484 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	486 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	555 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	497 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	506 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	485 ppb +/- 50 ppb	
n-Heptane	500 ppb	487 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	489 ppb +/- 50 ppb	
2-Hexanone	500 ppb	490 ppb +/- 50 ppb	
n-Hexane	500 ppb	485 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	511 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	527 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	534 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	505 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	509 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	496 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	493 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	532 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	483 ppb +/- 50 ppb	
Methylene chloride	500 ppb	498 ppb +/- 50 ppb	
Naphthalene	500 ppb	542 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	529 ppb +/- 50 ppb	
Propylene	500 ppb	508 ppb +/- 50 ppb	
Styrene	500 ppb	485 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	483 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	534 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	487 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	535 ppb +/- 50 ppb	
Toluene	500 ppb	491 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	494 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	494 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	494 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	488 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	508 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	495 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	494 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	498 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	489 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	499 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	505 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	507 ppb +/- 50 ppb	
m-Xylene	500 ppb	492 ppb +/- 50 ppb	
o-Xylene	500 ppb	480 ppb +/- 50 ppb	
p-Xylene	500 ppb	486 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	498 ppb +/- 50 ppb	
R-22	500 ppb	590 ppb +/- 50 ppb	
Nitrogen	balance	balance	

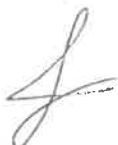
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature: 

Signature:

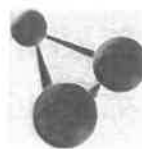
Date: 07/16/2024



*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS

SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountainside, NJ 07092

Cylinder Number: BC169552
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025
Lot Number: 040424-003B

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

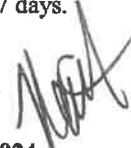
Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	502 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	530 ppb +/- 50 ppb	
Acrolein	500 ppb	540 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	535 ppb +/- 50 ppb	
Allyl chloride	500 ppb	494 ppb +/- 50 ppb	
Benzene	500 ppb	470 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	476 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	495 ppb +/- 50 ppb	
Bromoform	500 ppb	481 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	490 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	527 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	471 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	492 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	478 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	474 ppb +/- 50 ppb	
Chloroform	500 ppb	478 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	527 ppb +/- 50 ppb	
Cyclohexane	500 ppb	469 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	477 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	495 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	475 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	476 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	494 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	478 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	483 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	479 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	475 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	475 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	476 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	501 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	466 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	491 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	470 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	472 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	550 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	483 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	492 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	472 ppb +/- 50 ppb	
n-Heptane	500 ppb	473 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	475 ppb +/- 50 ppb	
2-Hexanone	500 ppb	477 ppb +/- 50 ppb	
n-Hexane	500 ppb	471 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	497 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	522 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	530 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	491 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	494 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	482 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	479 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	527 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	470 ppb +/- 50 ppb	
Methylene chloride	500 ppb	484 ppb +/- 50 ppb	
Naphthalene	500 ppb	537 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	525 ppb +/- 50 ppb	
Propylene	500 ppb	494 ppb +/- 50 ppb	
Styrene	500 ppb	472 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	530 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	470 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	473 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	520 ppb +/- 50 ppb	
Toluene	500 ppb	477 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	480 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	480 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	481 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	474 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	494 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	481 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	480 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	484 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	475 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	485 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	491 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	493 ppb +/- 50 ppb	
m-Xylene	500 ppb	479 ppb +/- 50 ppb	
o-Xylene	500 ppb	466 ppb +/- 50 ppb	
p-Xylene	500 ppb	473 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	497 ppb +/- 50 ppb	
R-22	500 ppb	589 ppb +/- 50 ppb	
Nitrogen	balance	balance	

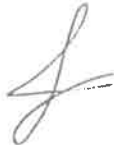
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature: 

Signature:

Date: 07/16/2024



*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

Process Report

Order ID : Q2359

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
06/19/2025	B2506027	Q2359-01	-8.4	10280	6 L	10181		C2504015	VL042491.D Seq :vl050625 TUNE : VL042486.D ICAL : VL042466.D CCAL : VL042487.D MB : VL042488.D



Canister Cleaning

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

Canister Batch : C2504015

Type of Canister : 6 L

Cleaning Date : 04/29/2025

Analyst : SAM

Oven Temperature : 125.0 c

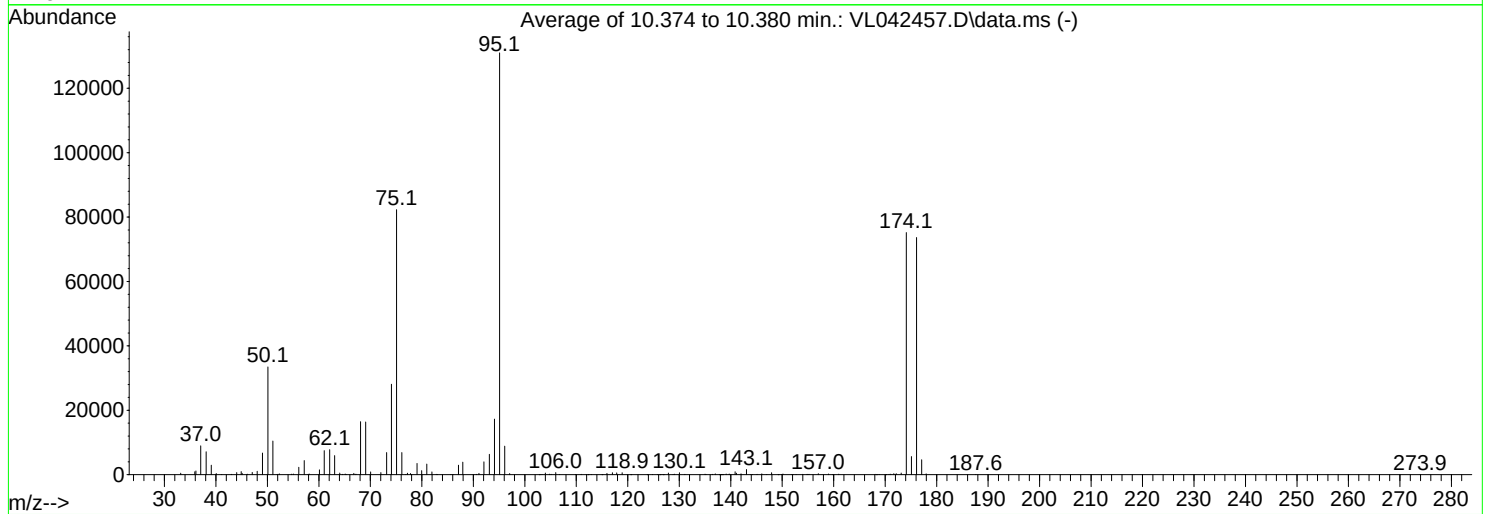
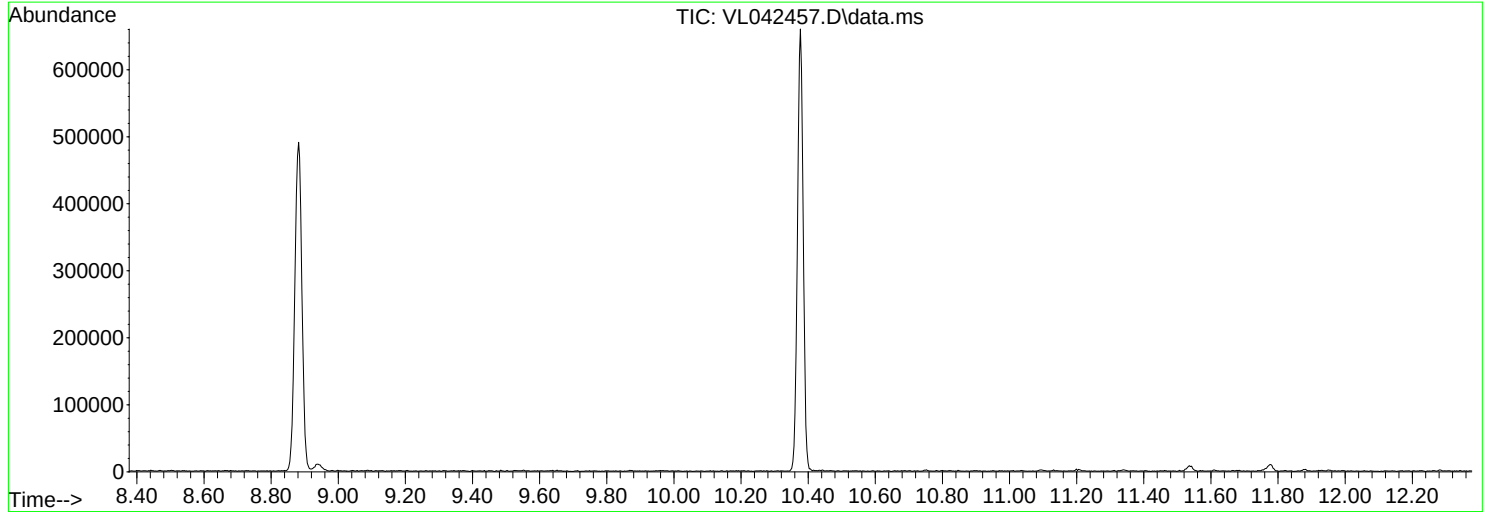
Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10448	-30	04/30/2025	05/06/2025	-30	05/01/2025		10590	VL042491.D
10590	-30	04/30/2025	05/06/2025	-30	05/01/2025	Q2369-02	10590	VL042491.D
10606	-30	04/30/2025	05/06/2025	-30	05/01/2025	Q2368-01	10590	VL042491.D
10410	-30	04/30/2025	05/06/2025	-30	05/01/2025		10590	VL042491.D
10295	-30	04/30/2025	05/06/2025	-30	05/01/2025		10590	VL042491.D
10280	-30	04/30/2025	05/06/2025	-30	05/01/2025	Q2359-01	10590	VL042491.D
10054	-30	04/30/2025	05/06/2025	-30	05/01/2025		10590	VL042491.D
10597	-30	04/30/2025	05/06/2025	-30	05/01/2025		10590	VL042491.D

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042457.D
Acq On : 01 May 2025 08:19
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\VL050125AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri May 02 03:16:31 2025



AutoFind: Scans 3178, 3179, 3180; 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	25.5	33424	PASS
75	95	30	66	62.8	82325	PASS
95	95	100	100	100.0	131013	PASS
96	95	5	9	6.8	8845	PASS
173	174	0.00	2	0.6	483	PASS
174	95	50	120	57.4	75195	PASS
175	174	4	9	7.5	5628	PASS
176	174	93	101	97.9	73643	PASS
177	176	5	9	6.3	4652	PASS

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL050125AIR.M

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

Last Update : Fri May 02 03:16:31 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042466.D 0.1 =VL042462.D 0.5 =VL042461.D 1 =VL042460.D 2 =VL042459.D 10 =VL042458.D 15 =VL042465.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.887	1.650	1.629	1.470	1.639	1.655	9.01
3) Chlorodifluoro...			1.886	1.871	1.820	1.569	1.602	1.750	8.71
4) Chloromethane			0.738	0.696	0.734	0.624	0.666	0.692	6.90
5) T Vinyl Chloride	0.756	0.964	0.708	0.625	0.623	0.567	0.631	0.696	19.18
6) T Bromomethane			0.349	0.359	0.327	0.286	0.324	0.329	8.64
7) Chloroethane			0.250	0.272	0.271	0.231	0.261	0.257	6.55
8) T Dichlorotetra...			1.445	1.371	1.402	1.235	1.368	1.364	5.77
9) T Propene			0.585	0.606	0.631	0.525	0.515	0.572	8.84
10) T Heptane			1.276	1.634	1.593	1.445	1.474	1.484	9.48
11) T Trichlorofluor...			1.660	1.489	1.528	1.376	1.582	1.527	6.96
12) T 1,1,2-Trichlor...			1.318	1.234	1.245	1.099	1.201	1.219	6.52
13) Ethanol			0.138	0.136	0.143	0.080	0.084	0.116	27.19
14) T Bromoethene			0.488	0.443	0.457	0.398	0.466	0.450	7.39
15) T Acetone			2.229	2.094	2.022	1.318	1.465	1.826	22.28
16) T 1,3-Butadiene			0.883	0.874	0.836	0.681	0.751	0.805	10.77
17) tert-Butyl alc...			1.816	1.615	1.620	1.489	1.502	1.608	8.15
18) T 1,1-Dichloroet...			0.650	0.587	0.567	0.495	0.547	0.569	9.98
19) T Isopropyl Alcohol			1.221	1.087	0.976	0.876	0.891	1.010	14.33
20) T Methylene Chlo...			0.753	0.547	0.518	0.449	0.477	0.549	21.88
21) T Allyl Chloride			1.283	1.181	1.164	1.076	1.166	1.174	6.25
22) T trans-1,2-Dich...			0.741	0.742	0.645	0.552	0.644	0.665	11.96
23) T Vinyl Acetate			1.898	1.521	1.810	1.726	1.756	1.742	8.03
24) T 1,1-Dichloroet...			1.432	1.465	1.368	1.196	1.322	1.357	7.79
25) T Ethyl Acetate			3.002	3.044	2.945	2.832	2.792	2.923	3.69
26) T Hexane			1.278	1.290	1.345	1.215	1.239	1.273	3.91
27) T Carbon Disulfide			1.509	1.446	1.499	1.418	1.558	1.486	3.69
28) T Methyl tert-Bu...			0.802	0.853	0.759	0.671	0.740	0.765	8.91
29) T Chloroform			2.551	2.482	2.399	2.198	2.301	2.386	5.89
30) T Cyclohexane			1.135	0.998	1.096	1.045	1.048	1.065	4.92
31) T cis-1,2-Dichlo...			1.551	1.604	1.545	1.342	1.386	1.486	7.71
32) T 1,1,1-Trichlor...	2.980	2.842	2.567	2.501	2.511	2.288	2.433	2.589	9.28

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.802	0.732	0.774	0.659	0.650	0.723	9.32
35) T Carbon Tetrach...	1.166	0.799	0.856	0.935	0.875	0.827	0.902	0.908	13.44
36) T Benzene			0.924	0.974	1.036	0.892	0.892	0.944	6.53
37) T 1,2-Dichloroet...			0.738	0.755	0.769	0.666	0.709	0.727	5.66
38) T Trichloroethene	0.241	0.419	0.389	0.364	0.404	0.347	0.355	0.360	16.31
39) T 1,2-Dichloropr...			0.368	0.405	0.362	0.317	0.315	0.353	10.71

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL050125AIR.M											
40)	T	1,4-Dioxane			0.176	0.185	0.172	0.151	0.144	0.165	10.60
41)	T	Tetrahydrofuran			0.329	0.354	0.387	0.326	0.322	0.344	7.98
42)	T	Bromodichlorom...			0.848	0.921	0.931	0.839	0.904	0.889	4.77
43)		Methyl Methacr...			0.328	0.341	0.362	0.363	0.366	0.352	4.72
44)	T	2,2,4-Trimethy...			1.490	1.590	1.633	1.437	1.498	1.530	5.23
45)	T	t-1,3-Dichloro...			0.438	0.423	0.460	0.480	0.510	0.462	7.46
46)	T	cis-1,3-Dichlo...			0.526	0.539	0.549	0.555	0.577	0.549	3.47
47)	T	1,1,2-Trichlor...			0.372	0.409	0.428	0.357	0.371	0.387	7.74
48)	T	Dibromochlorom...			0.651	0.643	0.673	0.630	0.674	0.654	2.96
49)	T	Bromoform			0.540	0.535	0.573	0.527	0.568	0.549	3.73
50)	T	4-Methyl-2-Pen...			0.852	0.980	0.985	0.870	0.887	0.915	6.92
51)	T	2-Hexanone			0.649	0.754	0.797	0.722	0.736	0.731	7.42
52)	T	Tetrachloroethene	0.509	0.380	0.325	0.339	0.338	0.305	0.318	0.359	19.49
53)	T	Toluene			0.935	0.969	1.025	1.016	1.050	0.999	4.64
54)	T	1,2-Dibromoethane		0.625	0.589	0.599	0.610	0.554	0.577	0.592	4.26
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.618	0.633	0.596	0.542	0.564	0.591	6.38
57)	T	Chlorobenzene			1.101	1.060	1.036	0.904	0.923	1.005	8.64
58)	T	Ethyl Benzene			1.492	1.634	1.752	1.725	1.754	1.671	6.68
59)	T	m/p-Xylene			1.212	1.378	1.506	1.429	1.479	1.401	8.31
60)	T	o-Xylene			1.197	1.393	1.519	1.423	1.481	1.403	8.90
61)	T	Styrene			0.415	0.500	0.538	0.583	0.582	0.523	13.35
62)		Isopropylbenzene			1.781	2.030	2.165	2.033	2.108	2.023	7.26
63)	T	1,1,2,2-Tetrac...	1.140	0.945	0.976	0.985	0.990	0.846	0.887	0.967	9.69
64)		n-propylbenzene			0.400	0.524	0.549	0.482	0.518	0.495	11.75
65)		tert-Butylbenzene			1.519	1.791	2.028	1.817	1.873	1.806	10.23
66)	T	Benzyl Chloride			0.158	0.204	0.195	0.232	0.255	0.209	17.73
67)		sec-Butylbenzene			2.149	2.560	2.905	2.541	2.675	2.566	10.69
68)	S	1-Bromo-4-Fluo...	0.920	0.911	0.902	0.928	0.915	0.951	0.963	0.927	2.39
69)		p-Isopropyltol...			1.805	2.166	2.406	2.150	2.283	2.162	10.39
70)		n-Butylbenzene			1.802	2.218	2.560	2.198	2.396	2.235	12.66
71)		2-Chlorotoluene			1.405	1.569	1.697	1.597	1.667	1.587	7.20
72)	T	4-Ethyltoluene			1.281	1.647	1.828	1.722	1.792	1.654	13.28
73)	T	1,3,5-Trimethy...			1.177	1.467	1.618	1.475	1.535	1.455	11.44
74)	T	1,2,4-Trimethy...			1.568	1.788	2.075	1.646	1.723	1.760	11.07
75)	T	1,3-Dichlorobe...			0.975	1.022	1.056	0.893	0.952	0.980	6.42
76)	T	1,4-Dichlorobe...			0.869	0.945	0.966	0.907	0.949	0.927	4.22
77)	T	1,2-Dichlorobe...			0.977	1.007	1.033	0.864	0.914	0.959	7.23
78)	T	Hexachloro-1,3...			1.028	1.081	1.070	0.772	0.838	0.958	14.93
79)	T	Naphthalene		0.720	1.168	1.657	2.155	1.527	1.661	1.482	33.01
80)	T	Naphthalene,2-...			0.498	0.925	1.573	1.172	1.338	1.101	37.38
81)	T	1,2,4-Trichlor...			0.599	0.798	0.947	0.778	0.828	0.790	15.84

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042458.D
 Acq On : 01 May 2025 09:03
 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 05/02/2025
 Supervised By : Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:39:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	71402	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	201290	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	174168	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 165650 10.258 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	104948	8.882	ppbv	100
3) Chlorodifluoromethane	1.476	51	112008	8.966	ppbv	100
4) Chloromethane	1.531	50	44585	9.028	ppbv	100
5) Vinyl Chloride	1.580	62	40466	8.138	ppbv	100
6) Bromomethane	1.667	94	20392	8.680	ppbv	100
7) Chloroethane	1.703	64	16528	9.002	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	88162	9.051	ppbv	100
9) Propene	1.483	41	37491	9.175	ppbv	100
10) Heptane	4.978	43	103167	9.733	ppbv	100
11) Trichlorofluoromethane	1.874	101	98215	9.320	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.136	101	78482	9.015	ppbv	100
13) Ethanol	1.719	45	5679	6.849	ppbv	100
14) Bromoethene	1.780	108	28440	8.849	ppbv	100
15) Acetone	1.835	43	94092	7.219	ppbv	100
16) 1,3-Butadiene	1.609	39	48641	8.461	ppbv	100
17) tert-Butyl alcohol	2.039	59	106304	9.257	ppbv	100
18) 1,1-Dichloroethene	2.033	96	35320	8.689	ppbv	100
19) Isopropyl Alcohol	1.884	45	62533	8.668	ppbv	100
20) Methylene Chloride	2.059	84	32039	8.176	ppbv	100
21) Allyl Chloride	2.094	41	76859	9.169	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	39427	8.305	ppbv	100
23) Vinyl Acetate	2.460	43	123215	10.146	ppbv	100
24) 1,1-Dichloroethane	2.408	63	85367	8.814	ppbv	100
25) Ethyl Acetate	2.835	43	202215	9.689	ppbv	100
26) Hexane	2.826	57	86764	9.543	ppbv	100
27) Carbon Disulfide	2.146	76	101248	9.542	ppbv #	92
28) Methyl tert-Butyl Ether	2.437	73	47941	8.777	ppbv	100
29) Chloroform	2.848	83	156976	9.213	ppbv	100
30) Cyclohexane	3.855	84	74614	9.815	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	95797	9.031	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	163334	8.836	ppbv	100
34) 2-Butanone	2.557	43	132685	9.113	ppbv	100
35) Carbon Tetrachloride	3.758	117	166490	9.511	ppbv	100
36) Benzene	3.654	78	179532	9.451	ppbv	100
37) 1,2-Dichloroethane	3.217	62	133963	9.150	ppbv	100
38) Trichloroethene	4.544	130	69846	9.642	ppbv	100
39) 1,2-Dichloropropane	4.311	63	63894	8.979	ppbv	100
40) 1,4-Dioxane	4.583	88	30303m	9.161	ppbv	
41) Tetrahydrofuran	3.052	42	65713	9.516	ppbv	100
42) Bromodichloromethane	4.486	83	168957	9.445	ppbv	100
43) Methyl Methacrylate	4.881	69	73117	10.339	ppbv	100
44) 2,2,4-Trimethylpentane	4.635	57	289161	9.420	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	96692	10.385	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042458.D
 Acq On : 01 May 2025 09:03
 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 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:39:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	111768	10.111	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	71805	9.207	ppbv	100
48) Dibromochloromethane	7.386	129	126754	9.628	ppbv	100
49) Bromoform	9.480	173	106108	9.610	ppbv	100
50) 4-Methyl-2-Pentanone	5.748	43	175193	9.518	ppbv	100
51) 2-Hexanone	7.435	43	145272	9.855	ppbv	100
52) Tetrachloroethene	8.224	164	61456	8.500	ppbv	100
53) Toluene	6.930	91	204494	10.171	ppbv	100
54) 1,2-Dibromoethane	7.648	107	111506	9.300	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	94346	9.172	ppbv	99
57) Chlorobenzene	8.920	112	157401	8.994	ppbv	100
58) Ethyl Benzene	9.354	91	300412	10.321	ppbv	100
59) m/p-Xylene	9.529	91	497922m	20.404	ppbv	
60) o-Xylene	9.963	91	247784	10.157	ppbv	100
61) Styrene	9.872	104	101509	11.134	ppbv	100
62) Isopropylbenzene	10.539	105	354055	10.047	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	147295	9.305	ppbv	100
64) n-propylbenzene	10.989	120	84006	9.787	ppbv	100
65) tert-Butylbenzene	11.529	119	316532	10.065	ppbv	100
66) Benzyl Chloride	11.613	91	40331	11.096	ppbv	100
67) sec-Butylbenzene	11.769	105	442600	9.903	ppbv	100
69) p-Isopropyltoluene	11.924	119	374540	9.947	ppbv	100
70) n-Butylbenzene	12.280	91	382883	9.836	ppbv	100
71) 2-Chlorotoluene	10.898	91	278215	10.065	ppbv	100
72) 4-Ethyltoluene	11.124	105	299831	10.409	ppbv	100
73) 1,3,5-Trimethylbenzene	11.202	105	256952	10.143	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	286615	9.351	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	155598	9.118	ppbv	100
76) 1,4-Dichlorobenzene	11.671	146	157966	9.782	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	150432	9.007	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	134402	8.058	ppbv	100
79) Naphthalene	13.513	128	266036	10.352	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	204042	10.641	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	135473	9.844	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042459.D
 Acq On : 01 May 2025 09:37
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/02/2025
 Supervised By : Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:40:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	73220	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	201951	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	174624	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 159777 9.869 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	23859	1.969	ppbv	100
3) Chlorodifluoromethane	1.476	51	26655	2.081	ppbv	95
4) Chloromethane	1.531	50	10751	2.123	ppbv	95
5) Vinyl Chloride	1.580	62	9122	1.789	ppbv	92
6) Bromomethane	1.667	94	4793	1.990	ppbv #	62
7) Chloroethane	1.703	64	3972	2.110	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	20529	2.055	ppbv	100
9) Propene	1.482	41	9234	2.204	ppbv	95
10) Heptane	4.978	43	23329m	2.146	ppbv	
11) Trichlorofluoromethane	1.877	101	22375	2.070	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	18230	2.042	ppbv	97
13) Ethanol	1.722	45	2099	2.468	ppbv	94
14) Bromoethene	1.780	108	6686	2.029	ppbv #	96
15) Acetone	1.835	43	29607	2.215	ppbv	99
16) 1,3-Butadiene	1.609	39	12245	2.077	ppbv	92
17) tert-Butyl alcohol	2.042	59	23722	2.014	ppbv #	93
18) 1,1-Dichloroethene	2.033	96	8303	1.992	ppbv	92
19) Isopropyl Alcohol	1.884	45	14288	1.931	ppbv	99
20) Methylene Chloride	2.062	84	7590	1.889	ppbv	96
21) Allyl Chloride	2.094	41	17050	1.983	ppbv	96
22) trans-1,2-Dichloroethene	2.340	96	9444	1.940	ppbv	97
23) Vinyl Acetate	2.463	43	26502	2.128	ppbv	98
24) 1,1-Dichloroethane	2.408	63	20027	2.016	ppbv	98
25) Ethyl Acetate	2.839	43	43122	2.015	ppbv	97
26) Hexane	2.822	57	19691	2.112	ppbv	95
27) Carbon Disulfide	2.149	76	21945	2.017	ppbv #	43
28) Methyl tert-Butyl Ether	2.441	73	11119	1.985	ppbv	94
29) Chloroform	2.848	83	35127	2.010	ppbv	86
30) Cyclohexane	3.858	84	16056	2.060	ppbv	95
31) cis-1,2-Dichloroethene	2.719	61	22619	2.079	ppbv	95
32) 1,1,1-Trichloroethane	3.369	97	36768	1.940	ppbv	99
34) 2-Butanone	2.557	43	31242	2.139	ppbv	95
35) Carbon Tetrachloride	3.764	117	35326	2.011	ppbv	97
36) Benzene	3.661	78	41848	2.196	ppbv #	88
37) 1,2-Dichloroethane	3.217	62	31049	2.114	ppbv	99
38) Trichloroethene	4.544	130	16311m	2.244	ppbv	
39) 1,2-Dichloropropane	4.311	63	14611	2.047	ppbv	91
40) 1,4-Dioxane	4.593	88	6957m	2.096	ppbv	
41) Tetrahydrofuran	3.059	42	15641m	2.258	ppbv	
42) Bromodichloromethane	4.489	83	37615	2.096	ppbv #	99
43) Methyl Methacrylate	4.884	69	14610m	2.059	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	65967	2.142	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	18560m	1.987	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042459.D
 Acq On : 01 May 2025 09:37
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:40:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	22184	2.000	ppbv	93
47) 1,1,2-Trichloroethane	6.587	97	17307m	2.212	ppbv	
48) Dibromochloromethane	7.386	129	27174	2.057	ppbv	99
49) Bromoform	9.483	173	23126	2.088	ppbv	98
50) 4-Methyl-2-Pentanone	5.758	43	39798	2.155	ppbv	99
51) 2-Hexanone	7.441	43	32196	2.177	ppbv #	97
52) Tetrachloroethene	8.224	164	13670	1.885	ppbv	93
53) Toluene	6.930	91	41392	2.052	ppbv	97
54) 1,2-Dibromoethane	7.652	107	24650	2.049	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.927	131	20822	2.019	ppbv	95
57) Chlorobenzene	8.920	112	36187	2.062	ppbv #	88
58) Ethyl Benzene	9.354	91	61177	2.096	ppbv	91
59) m/p-Xylene	9.551	91	105185m	4.299	ppbv	
60) o-Xylene	9.963	91	53051	2.169	ppbv	99
61) Styrene	9.872	104	18776	2.054	ppbv	97
62) Isopropylbenzene	10.539	105	75626	2.140	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	34562	2.178	ppbv	98
64) n-propylbenzene	10.989	120	19160	2.226	ppbv	94
65) tert-Butylbenzene	11.532	119	70813	2.246	ppbv	97
66) Benzyl Chloride	11.613	91	6794	1.864	ppbv	97
67) sec-Butylbenzene	11.769	105	101458	2.264	ppbv	99
69) p-Isopropyltoluene	11.924	119	84026	2.226	ppbv	98
70) n-Butylbenzene	12.280	91	89400	2.291	ppbv	97
71) 2-Chlorotoluene	10.901	91	59271	2.139	ppbv	97
72) 4-Ethyltoluene	11.124	105	63833	2.210	ppbv	98
73) 1,3,5-Trimethylbenzene	11.205	105	56516	2.225	ppbv	94
74) 1,2,4-Trimethylbenzene	11.536	105	72485	2.359	ppbv	94
75) 1,3-Dichlorobenzene	11.607	146	36885	2.156	ppbv	97
76) 1,4-Dichlorobenzene	11.671	146	33728	2.083	ppbv	94
77) 1,2-Dichlorobenzene	11.947	146	36078	2.154	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	37360	2.234	ppbv	99
79) Naphthalene	13.513	128	75248	2.920	ppbv	96
80) Naphthalene,2-methyl-	14.458	142	54922	2.857	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	33063	2.396	ppbv	95

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042460.D
 Acq On : 01 May 2025 10:08
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/02/2025
 Supervised By : Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:41:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	71499	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	200111	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	170872	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 158600 10.011 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	11796	0.997	ppbv	96
3) Chlorodifluoromethane	1.476	51	13375	1.069	ppbv	96
4) Chloromethane	1.531	50	4975	1.006	ppbv	95
5) Vinyl Chloride	1.576	62	4469	0.898	ppbv	100
6) Bromomethane	1.667	94	2570	1.092	ppbv	86
7) Chloroethane	1.703	64	1943	1.057	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	9804	1.005	ppbv	91
9) Propene	1.482	41	4331	1.058	ppbv	88
10) Heptane	4.975	43	11681m	1.101	ppbv	
11) Trichlorofluoromethane	1.877	101	10649m	1.009	ppbv	
12) 1,1,2-Trichlorotrifluo...	2.140	101	8821	1.012	ppbv	97
13) Ethanol	1.719	45	975	1.174	ppbv #	52
14) Bromoethene	1.780	108	3164	0.983	ppbv #	91
15) Acetone	1.835	43	14974	1.147	ppbv	98
16) 1,3-Butadiene	1.609	39	6248	1.085	ppbv	96
17) tert-Butyl alcohol	2.039	59	11546	1.004	ppbv #	91
18) 1,1-Dichloroethene	2.033	96	4200	1.032	ppbv	86
19) Isopropyl Alcohol	1.884	45	7775	1.076	ppbv	99
20) Methylene Chloride	2.059	84	3909	0.996	ppbv	86
21) Allyl Chloride	2.094	41	8443	1.006	ppbv	94
22) trans-1,2-Dichloroethene	2.337	96	5305	1.116	ppbv	88
23) Vinyl Acetate	2.460	43	10876	0.894	ppbv #	94
24) 1,1-Dichloroethane	2.405	63	10477	1.080	ppbv	97
25) Ethyl Acetate	2.835	43	21761	1.041	ppbv	99
26) Hexane	2.822	57	9223	1.013	ppbv	97
27) Carbon Disulfide	2.149	76	10342	0.973	ppbv #	21
28) Methyl tert-Butyl Ether	2.441	73	6101	1.115	ppbv	93
29) Chloroform	2.848	83	17744	1.040	ppbv	97
30) Cyclohexane	3.852	84	7139	0.938	ppbv	88
31) cis-1,2-Dichloroethene	2.719	61	11472	1.080	ppbv	87
32) 1,1,1-Trichloroethane	3.366	97	17881	0.966	ppbv	98
34) 2-Butanone	2.560	43	14641	1.012	ppbv	94
35) Carbon Tetrachloride	3.755	117	18704	1.075	ppbv #	76
36) Benzene	3.654	78	19493	1.032	ppbv #	94
37) 1,2-Dichloroethane	3.214	62	15116	1.039	ppbv	98
38) Trichloroethene	4.541	130	7278m	1.011	ppbv	
39) 1,2-Dichloropropane	4.302	63	8103m	1.145	ppbv	
40) 1,4-Dioxane	4.593	88	3703m	1.126	ppbv	
41) Tetrahydrofuran	3.062	42	7091m	1.033	ppbv	
42) Bromodichloromethane	4.486	83	18427	1.036	ppbv #	81
43) Methyl Methacrylate	4.874	69	6829m	0.971	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	31820m	1.043	ppbv	
45) t-1,3-Dichloropropene	6.409	75	8461m	0.914	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042460.D
 Acq On : 01 May 2025 10:08
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:41:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	10781m	0.981	ppbv	
47) 1,1,2-Trichloroethane	6.583	97	8183m	1.055	ppbv	
48) Dibromochloromethane	7.386	129	12859m	0.982	ppbv	
49) Bromoform	9.483	173	10709	0.976	ppbv	97
50) 4-Methyl-2-Pentanone	5.768	43	19618m	1.072	ppbv	
51) 2-Hexanone	7.448	43	15091m	1.030	ppbv	
52) Tetrachloroethene	8.221	164	6780	0.943	ppbv	86
53) Toluene	6.930	91	19390	0.970	ppbv	97
54) 1,2-Dibromoethane	7.655	107	11980	1.005	ppbv	91
56) 1,1,1,2-Tetrachloroethane	8.920	131	10811	1.071	ppbv	94
57) Chlorobenzene	8.917	112	18111	1.055	ppbv	90
58) Ethyl Benzene	9.354	91	27914	0.978	ppbv	97
59) m/p-Xylene	9.548	91	47105m	1.968	ppbv	
60) o-Xylene	9.962	91	23806	0.995	ppbv	98
61) Styrene	9.872	104	8537	0.954	ppbv	98
62) Isopropylbenzene	10.539	105	34679	1.003	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.962	83	16837	1.084	ppbv	98
64) n-propylbenzene	10.985	120	8958	1.064	ppbv	86
65) tert-Butylbenzene	11.529	119	30604	0.992	ppbv	95
66) Benzyl Chloride	11.613	91	3486	0.978	ppbv #	96
67) sec-Butylbenzene	11.765	105	43740	0.998	ppbv	98
69) p-Isopropyltoluene	11.927	119	37011	1.002	ppbv	99
70) n-Butylbenzene	12.280	91	37892	0.992	ppbv	97
71) 2-Chlorotoluene	10.898	91	26813	0.989	ppbv	99
72) 4-Ethyltoluene	11.124	105	28149	0.996	ppbv	96
73) 1,3,5-Trimethylbenzene	11.202	105	25073	1.009	ppbv	97
74) 1,2,4-Trimethylbenzene	11.535	105	30550	1.016	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	17456	1.043	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	16151	1.019	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	17207	1.050	ppbv	94
78) Hexachloro-1,3-Butadiene	13.879	225	18472	1.129	ppbv	98
79) Naphthalene	13.513	128	28316	1.123	ppbv #	94
80) Naphthalene,2-methyl-	14.458	142	15804	0.840	ppbv	93
81) 1,2,4-Trichlorobenzene	13.439	180	13644	1.011	ppbv	96

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042461.D
 Acq On : 01 May 2025 10:40
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/02/2025
 Supervised By : Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:42:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	68913	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	193701	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	166625	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 150277 9.728 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	6501	0.570	ppbv	94
3) Chlorodifluoromethane	1.476	51	6500	0.539	ppbv	99
4) Chloromethane	1.535	50	2542	0.533	ppbv	95
5) Vinyl Chloride	1.580	62	2441	0.509	ppbv	92
6) Bromomethane	1.667	94	1202	0.530	ppbv	97
7) Chloroethane	1.703	64	862	0.486	ppbv #	68
8) Dichlorotetrafluoroethane	1.554	85	4979	0.530	ppbv	93
9) Propene	1.486	41	2017	0.511	ppbv	96
10) Heptane	4.982	43	4397m	0.430	ppbv	
11) Trichlorofluoromethane	1.878	101	5720	0.562	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.137	101	4540	0.540	ppbv	94
13) Ethanol	1.722	45	474m	0.592	ppbv	
14) Bromoethene	1.784	108	1680	0.542	ppbv #	87
15) Acetone	1.839	43	7680	0.610	ppbv #	82
16) 1,3-Butadiene	1.609	39	3044	0.549	ppbv	86
17) tert-Butyl alcohol	2.046	59	6256	0.564	ppbv #	91
18) 1,1-Dichloroethene	2.036	96	2240	0.571	ppbv	94
19) Isopropyl Alcohol	1.887	45	4208	0.604	ppbv #	96
20) Methylene Chloride	2.062	84	2594	0.686	ppbv #	80
21) Allyl Chloride	2.098	41	4420	0.546	ppbv #	93
22) trans-1,2-Dichloroethene	2.340	96	2554	0.557	ppbv	95
23) Vinyl Acetate	2.460	43	6541	0.558	ppbv #	95
24) 1,1-Dichloroethane	2.412	63	4933	0.528	ppbv	98
25) Ethyl Acetate	2.842	43	10344	0.514	ppbv #	96
26) Hexane	2.829	57	4403	0.502	ppbv	95
27) Carbon Disulfide	2.153	76	5201	0.508	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	2762	0.524	ppbv #	82
29) Chloroform	2.852	83	8791	0.535	ppbv	92
30) Cyclohexane	3.855	84	3910m	0.533	ppbv	
31) cis-1,2-Dichloroethene	2.726	61	5345m	0.522	ppbv	
32) 1,1,1-Trichloroethane	3.366	97	8846m	0.496	ppbv	
34) 2-Butanone	2.564	43	7766	0.554	ppbv	93
35) Carbon Tetrachloride	3.768	117	8286	0.492	ppbv	86
36) Benzene	3.655	78	8951	0.490	ppbv #	92
37) 1,2-Dichloroethane	3.224	62	7149	0.507	ppbv #	95
38) Trichloroethene	4.548	130	3769m	0.541	ppbv	
39) 1,2-Dichloropropane	4.321	63	3561m	0.520	ppbv	
40) 1,4-Dioxane	4.619	88	1701m	0.534	ppbv	
41) Tetrahydrofuran	3.069	42	3187m	0.480	ppbv	
42) Bromodichloromethane	4.496	83	8212	0.477	ppbv	93
43) Methyl Methacrylate	4.891	69	3179m	0.467	ppbv	
44) 2,2,4-Trimethylpentane	4.648	57	14435m	0.489	ppbv	
45) t-1,3-Dichloropropene	6.415	75	4238m	0.473	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042461.D
 Acq On : 01 May 2025 10:40
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:42:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	5091m	0.479	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	3606m	0.480	ppbv	
48) Dibromochloromethane	7.390	129	6304m	0.498	ppbv	
49) Bromoform	9.484	173	5228	0.492	ppbv	97
50) 4-Methyl-2-Pentanone	5.771	43	8248m	0.466	ppbv	
51) 2-Hexanone	7.454	43	6283m	0.443	ppbv	
52) Tetrachloroethene	8.221	164	3151m	0.453	ppbv	
53) Toluene	6.933	91	9052m	0.468	ppbv	
54) 1,2-Dibromoethane	7.652	107	5705	0.494	ppbv	83
56) 1,1,1,2-Tetrachloroethane	8.924	131	5152	0.524	ppbv #	92
57) Chlorobenzene	8.924	112	9173	0.548	ppbv #	86
58) Ethyl Benzene	9.357	91	12427	0.446	ppbv	90
59) m/p-Xylene	9.552	91	20195m	0.865	ppbv	
60) o-Xylene	9.966	91	9976m	0.427	ppbv	
61) Styrene	9.872	104	3457m	0.396	ppbv	
62) Isopropylbenzene	10.545	105	14837	0.440	ppbv	95
63) 1,1,2,2-Tetrachloroethane	9.963	83	8135	0.537	ppbv	96
64) n-propylbenzene	10.992	120	3329m	0.405	ppbv	
65) tert-Butylbenzene	11.536	119	12655	0.421	ppbv	99
66) Benzyl Chloride	11.613	91	1317m	0.379	ppbv	
67) sec-Butylbenzene	11.769	105	17905	0.419	ppbv	97
69) p-Isopropyltoluene	11.927	119	15036	0.417	ppbv	94
70) n-Butylbenzene	12.283	91	15016	0.403	ppbv	93
71) 2-Chlorotoluene	10.905	91	11702	0.443	ppbv	99
72) 4-Ethyltoluene	11.128	105	10671	0.387	ppbv #	91
73) 1,3,5-Trimethylbenzene	11.206	105	9808	0.405	ppbv	89
74) 1,2,4-Trimethylbenzene	11.539	105	13060	0.445	ppbv #	83
75) 1,3-Dichlorobenzene	11.607	146	8127	0.498	ppbv	96
76) 1,4-Dichlorobenzene	11.675	146	7238	0.469	ppbv	96
77) 1,2-Dichlorobenzene	11.950	146	8141	0.509	ppbv	94
78) Hexachloro-1,3-Butadiene	13.886	225	8565	0.537	ppbv	99
79) Naphthalene	13.517	128	9735m	0.396	ppbv	
80) Naphthalene,2-methyl-	14.458	142	4153	0.226	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	4992	0.379	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042462.D
 Acq On : 01 May 2025 11:12
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:43:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	65449	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	186907	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	157618	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	143644	9.830	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	631	0.138	ppbv #	53
32) 1,1,1-Trichloroethane	3.363	97	1860m	0.110	ppbv	
35) Carbon Tetrachloride	3.758	117	1493	0.092	ppbv #	55
38) Trichloroethene	4.551	130	784m	0.117	ppbv	
52) Tetrachloroethene	8.221	164	710m	0.106	ppbv	
54) 1,2-Dibromoethane	7.665	107	1169m	0.105	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	1490	0.104	ppbv #	75
79) Naphthalene	13.517	128	1135m	0.049	ppbv	

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

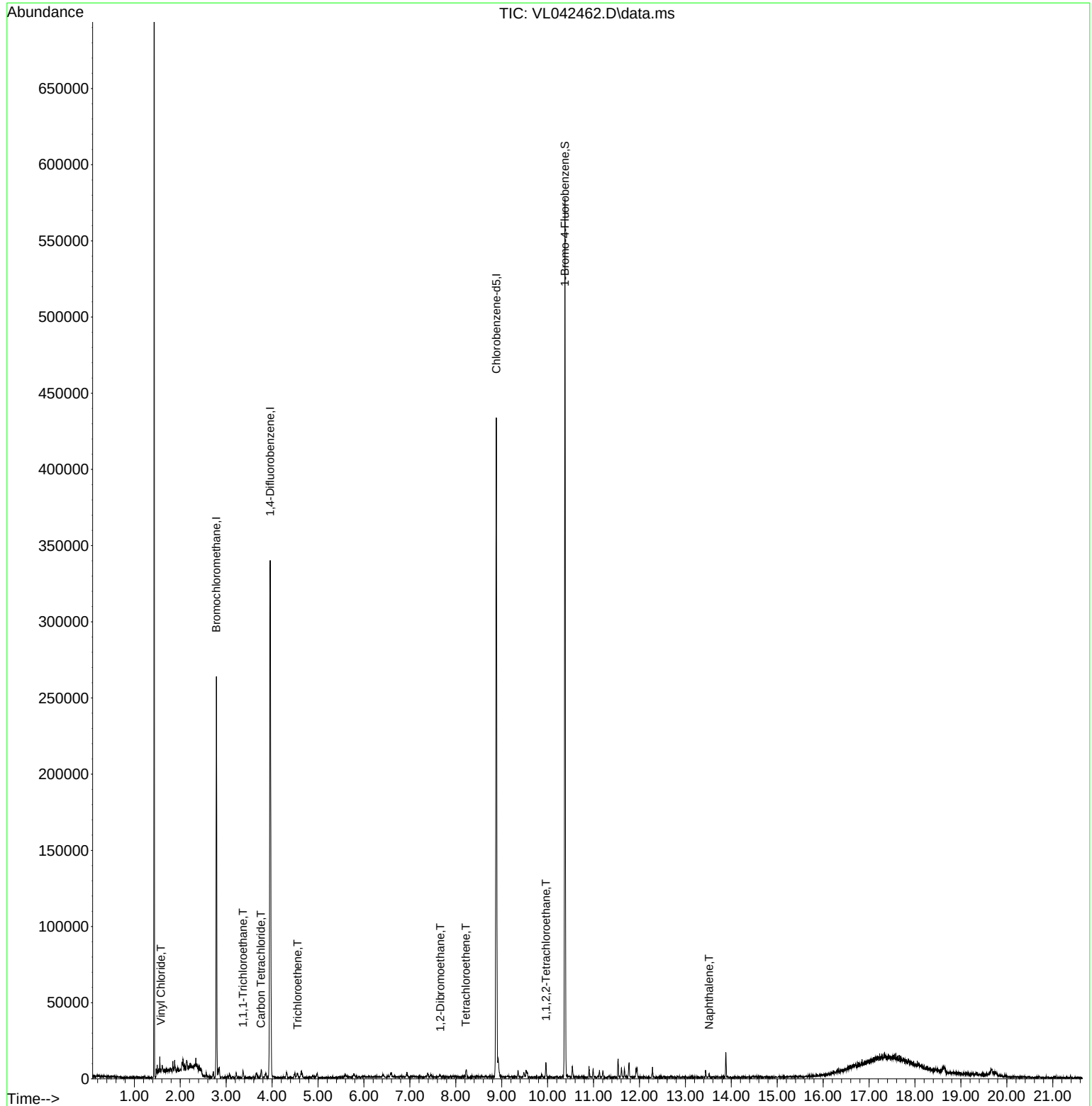
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042462.D
Acq On : 01 May 2025 11:12
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:43:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042465.D
 Acq On : 01 May 2025 12:49
 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 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:45:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	64314	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	178877	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	157673	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 151837 10.387 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	158069	14.852	ppbv	99
3) Chlorodifluoromethane	1.476	51	154556	13.735	ppbv	100
4) Chloromethane	1.535	50	64267	14.447	ppbv	95
5) Vinyl Chloride	1.580	62	60873	13.592	ppbv	98
6) Bromomethane	1.667	94	31246	14.766	ppbv	87
7) Chloroethane	1.703	64	25181	15.227	ppbv	92
8) Dichlorotetrafluoroethane	1.554	85	131995	15.044	ppbv	99
9) Propene	1.486	41	49647	13.489	ppbv	99
10) Heptane	4.982	43	142235	14.898	ppbv	100
11) Trichlorofluoromethane	1.878	101	152655	16.082	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	115855	14.775	ppbv	96
13) Ethanol	1.722	45	8090	10.832	ppbv	98
14) Bromoethene	1.781	108	44928	15.519	ppbv	96
15) Acetone	1.836	43	141306	12.036	ppbv	99
16) 1,3-Butadiene	1.609	39	72455	13.992	ppbv	98
17) tert-Butyl alcohol	2.043	59	144935	14.012	ppbv	99
18) 1,1-Dichloroethene	2.033	96	52813	14.424	ppbv	98
19) Isopropyl Alcohol	1.887	45	86000	13.235	ppbv #	1
20) Methylene Chloride	2.062	84	46063	13.050	ppbv	94
21) Allyl Chloride	2.098	41	112451	14.893	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	62153	14.534	ppbv	100
23) Vinyl Acetate	2.464	43	169418	15.489	ppbv	99
24) 1,1-Dichloroethane	2.409	63	127567	14.622	ppbv	97
25) Ethyl Acetate	2.836	43	269372	14.329	ppbv	100
26) Hexane	2.826	57	119552	14.598	ppbv	97
27) Carbon Disulfide	2.150	76	150258	15.722	ppbv #	92
28) Methyl tert-Butyl Ether	2.441	73	71341	14.500	ppbv	99
29) Chloroform	2.849	83	221976	14.464	ppbv	99
30) Cyclohexane	3.859	84	101146	14.771	ppbv	99
31) cis-1,2-Dichloroethene	2.723	61	133735	13.997	ppbv	93
32) 1,1,1-Trichloroethane	3.370	97	234752	14.099	ppbv	99
34) 2-Butanone	2.557	43	174521	13.488	ppbv	97
35) Carbon Tetrachloride	3.765	117	242144	15.566	ppbv	99
36) Benzene	3.658	78	239352	14.179	ppbv	98
37) 1,2-Dichloroethane	3.221	62	190179	14.618	ppbv	98
38) Trichloroethene	4.551	130	95257	14.798	ppbv	94
39) 1,2-Dichloropropane	4.312	63	84414	13.349	ppbv	93
40) 1,4-Dioxane	4.584	88	38551	13.115	ppbv #	100
41) Tetrahydrofuran	3.056	42	86296	14.063	ppbv	98
42) Bromodichloromethane	4.493	83	242556	15.259	ppbv	99
43) Methyl Methacrylate	4.885	69	98279	15.639	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	401920	14.734	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	136762	16.529	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042465.D
 Acq On : 01 May 2025 12:49
 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 05/02/2025
 Supervised By : Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:45:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

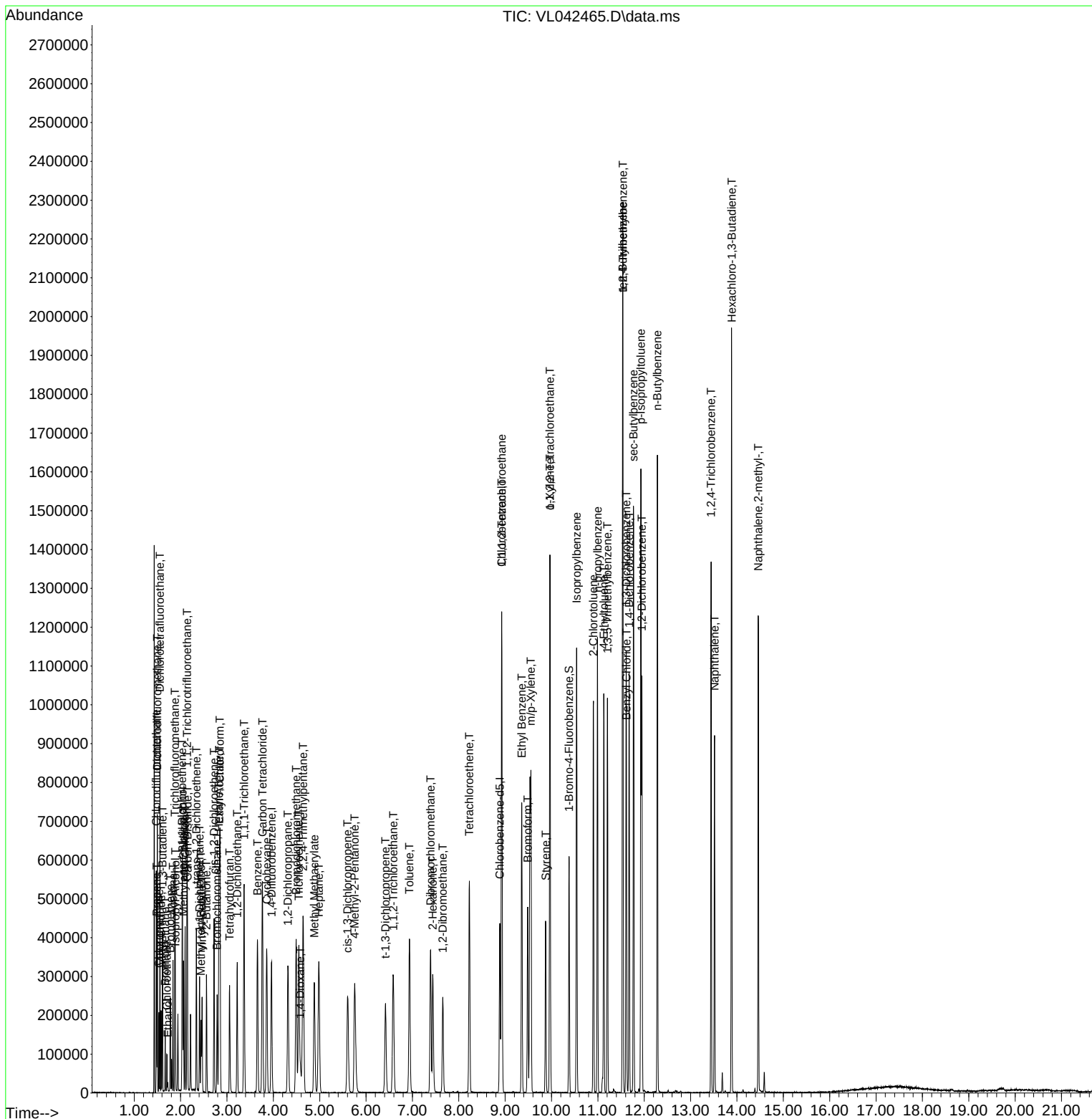
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	154705m	15.749	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	99496	14.356	ppbv	93
48) Dibromochloromethane	7.393	129	180970	15.468	ppbv	98
49) Bromoform	9.487	173	152440	15.535	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	237985	14.550	ppbv	97
51) 2-Hexanone	7.438	43	197423	15.071	ppbv	99
52) Tetrachloroethene	8.228	164	85271	13.272	ppbv	90
53) Toluene	6.937	91	281731	15.768	ppbv	100
54) 1,2-Dibromoethane	7.655	107	154739	14.523	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.927	131	133410	14.326	ppbv	98
57) Chlorobenzene	8.927	112	218370	13.783	ppbv	99
58) Ethyl Benzene	9.358	91	414805	15.743	ppbv	98
59) m/p-Xylene	9.555	91	699743m	31.674	ppbv	
60) o-Xylene	9.966	91	350328	15.863	ppbv	100
61) Styrene	9.876	104	137720	16.686	ppbv	96
62) Isopropylbenzene	10.542	105	498619	15.629	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	209726	14.635	ppbv	99
64) n-propylbenzene	10.992	120	122452	15.759	ppbv	97
65) tert-Butylbenzene	11.536	119	443042	15.562	ppbv	97
66) Benzyl Chloride	11.617	91	60376	18.348	ppbv	97
67) sec-Butylbenzene	11.769	105	632600	15.636	ppbv	100
69) p-Isopropyltoluene	11.928	119	539860	15.837	ppbv	99
70) n-Butylbenzene	12.284	91	566780	16.084	ppbv	99
71) 2-Chlorotoluene	10.905	91	394227	15.755	ppbv	100
72) 4-Ethyltoluene	11.128	105	423746	16.250	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	362951	15.826	ppbv	96
74) 1,2,4-Trimethylbenzene	11.539	105	407416	14.683	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	225215	14.579	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	224505	15.357	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	216147	14.295	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	198112	13.121	ppbv	99
79) Naphthalene	13.517	128	392900	16.888	ppbv	98
80) Naphthalene,2-methyl-	14.459	142	316493	18.232	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	195942	15.728	ppbv	97

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

Manual Integrations

Quant Time: May 02 01:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042466.D
 Acq On : 01 May 2025 14:10
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:46:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	66546	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	186737	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	161050	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	148088	9.918	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	151	0.033	ppbv #	87
32) 1,1,1-Trichloroethane	3.370	97	595m	0.035	ppbv	
35) Carbon Tetrachloride	3.771	117	653m	0.040	ppbv	
38) Trichloroethene	4.551	130	135	0.020	ppbv #	40
52) Tetrachloroethene	8.231	164	285m	0.042	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.973	83	551m	0.038	ppbv	

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

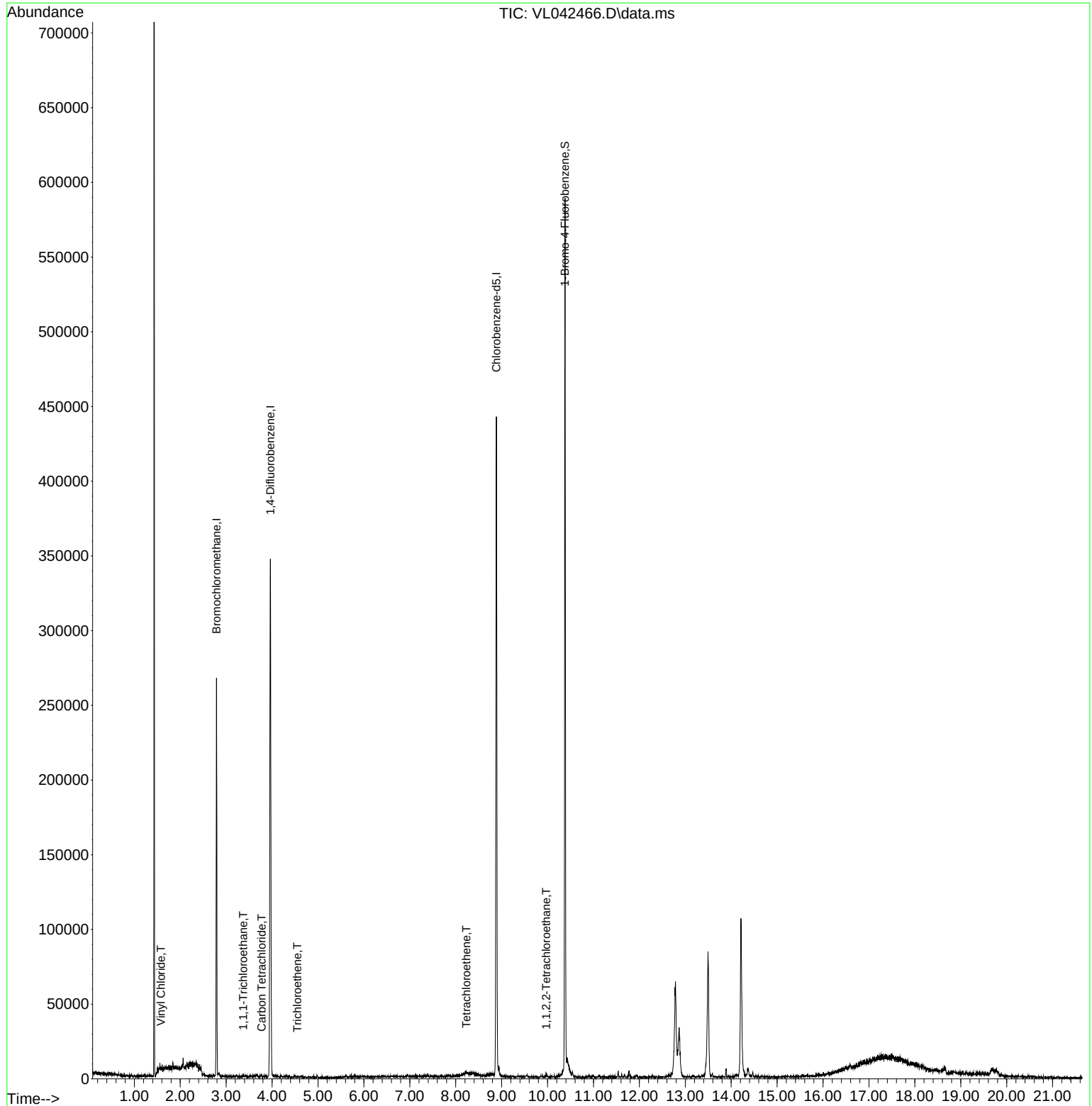
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042466.D
Acq On : 01 May 2025 14:10
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:46:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042467.D
 Acq On : 01 May 2025 15:46
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL050125

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 03:48:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	63539	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	183679	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	156982	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 150522 10.342 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	108782	10.346	ppbv	97
3) Chlorodifluoromethane	1.476	51	110290	9.921	ppbv	98
4) Chloromethane	1.534	50	43950	10.001	ppbv	96
5) Vinyl Chloride	1.580	62	41181	9.307	ppbv	99
6) Bromomethane	1.667	94	21021	10.055	ppbv	91
7) Chloroethane	1.706	64	16630	10.179	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	89345	10.307	ppbv	99
9) Propene	1.486	41	36920	10.153	ppbv	97
10) Heptane	4.985	43	94631	10.033	ppbv	95
11) Trichlorofluoromethane	1.878	101	100713	10.380	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	81143	10.474	ppbv	99
13) Ethanol	1.722	45	5736	7.773	ppbv	99
14) Bromoethene	1.780	108	30094	10.522	ppbv	97
15) Acetone	1.835	43	95460	8.230	ppbv	98
16) 1,3-Butadiene	1.609	39	49566	9.689	ppbv	100
17) tert-Butyl alcohol	2.043	59	102047	9.986	ppbv	100
18) 1,1-Dichloroethene	2.033	96	35784	9.892	ppbv	98
19) Isopropyl Alcohol	1.887	45	60977	9.499	ppbv	99
20) Methylene Chloride	2.062	84	31212	8.951	ppbv	94
21) Allyl Chloride	2.098	41	73365	9.835	ppbv	94
22) trans-1,2-Dichloroethene	2.340	96	42922	10.160	ppbv	96
23) Vinyl Acetate	2.463	43	113131	10.220	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	89117	10.340	ppbv	97
25) Ethyl Acetate	2.839	43	186185	10.025	ppbv	99
26) Hexane	2.826	57	83132	10.275	ppbv	96
27) Carbon Disulfide	2.149	76	100196	10.612	ppbv	96
28) Methyl tert-Butyl Ether	2.441	73	48326	9.942	ppbv	100
29) Chloroform	2.852	83	152381	10.050	ppbv	96
30) Cyclohexane	3.858	84	70581	10.434	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	95793	10.148	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	161465	9.816	ppbv	99
34) 2-Butanone	2.560	43	125883	9.475	ppbv	97
35) Carbon Tetrachloride	3.764	117	166814	9.998	ppbv	97
36) Benzene	3.658	78	171384	9.888	ppbv	98
37) 1,2-Dichloroethane	3.221	62	130063	9.736	ppbv	100
38) Trichloroethene	4.551	130	65940	9.976	ppbv	96
39) 1,2-Dichloropropane	4.315	63	60010	9.248	ppbv	95
40) 1,4-Dioxane	4.583	88	28306m	9.316	ppbv	
41) Tetrahydrofuran	3.059	42	59604	9.440	ppbv	98
42) Bromodichloromethane	4.489	83	163210	9.999	ppbv	95
43) Methyl Methacrylate	4.881	69	67516	10.438	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	277217	9.867	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	89638m	10.563	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042467.D
 Acq On : 01 May 2025 15:46
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050125

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 03:48:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	104665	10.378	ppbv	97
47) 1,1,2-Trichloroethane	6.584	97	67821	9.530	ppbv	95
48) Dibromochloromethane	7.393	129	121381	10.103	ppbv	97
49) Bromoform	9.487	173	102150	10.138	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	159280	9.478	ppbv	99
51) 2-Hexanone	7.438	43	126396	9.407	ppbv #	98
52) Tetrachloroethene	8.228	164	58272	8.832	ppbv	96
53) Toluene	6.940	91	191922	10.461	ppbv	99
54) 1,2-Dibromoethane	7.658	107	105149	9.664	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.927	131	92337	9.959	ppbv	97
57) Chlorobenzene	8.927	112	148759	9.431	ppbv	92
58) Ethyl Benzene	9.357	91	280660	10.698	ppbv	99
59) m/p-Xylene	9.555	91	468984m	21.324	ppbv	
60) o-Xylene	9.966	91	238347	10.824	ppbv	97
61) Styrene	9.872	104	91128	11.090	ppbv	97
62) Isopropylbenzene	10.542	105	337992	10.641	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	140306	9.242	ppbv	100
64) n-propylbenzene	10.992	120	79983	10.303	ppbv	99
65) tert-Butylbenzene	11.536	119	302506	10.672	ppbv	99
66) Benzyl Chloride	11.617	91	34933	10.663	ppbv	97
67) sec-Butylbenzene	11.769	105	425444	10.562	ppbv	99
69) p-Isopropyltoluene	11.927	119	363563	10.712	ppbv	98
70) n-Butylbenzene	12.283	91	371369	10.585	ppbv	99
71) 2-Chlorotoluene	10.905	91	264063	10.599	ppbv	99
72) 4-Ethyltoluene	11.128	105	287375	11.069	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	247128	10.823	ppbv	93
74) 1,2,4-Trimethylbenzene	11.539	105	278306	10.074	ppbv	98
75) 1,3-Dichlorobenzene	11.610	146	150026	9.754	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	151740	10.425	ppbv	97
77) 1,2-Dichlorobenzene	11.950	146	146314	9.719	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	133688	8.893	ppbv	99
79) Naphthalene	13.516	128	251318	10.806	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	198604	11.489	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	129406	10.433	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042467.D
 Acq On : 01 May 2025 15:46
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL050125

Quant Time: May 02 03:48:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 02 03:16:31 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	89	0.00
2 T	Dichlorodifluoromethane	1.655	1.712	-3.4	104	0.00
3	Chlorodifluoromethane	1.750	1.736	0.8	98	0.00
4	Chloromethane	0.692	0.692	0.0	99	0.00
5 T	Vinyl Chloride	0.696	0.648	6.9	102	0.00
6 T	Bromomethane	0.329	0.331	-0.6	103	0.00
7	Chloroethane	0.257	0.262	-1.9	101	0.00
8 T	Dichlorotetrafluoroethane	1.364	1.406	-3.1	101	0.00
9 T	Propene	0.572	0.581	-1.6	98	0.00
10 T	Heptane	1.484	1.489	-0.3	92	0.00
11 T	Trichlorofluoromethane	1.527	1.585	-3.8	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.219	1.277	-4.8	103	0.00
13	Ethanol	0.116	0.090	22.4	101	0.00
14 T	Bromoethene	0.450	0.474	-5.3	106	0.00
15 T	Acetone	1.826	1.502	17.7	101	0.00
16 T	1,3-Butadiene	0.805	0.780	3.1	102	0.00
17	tert-Butyl alcohol	1.608	1.606	0.1	96	0.00
18 T	1,1-Dichloroethene	0.569	0.563	1.1	101	0.00
19 T	Isopropyl Alcohol	1.010	0.960	5.0	98	0.00
20 T	Methylene Chloride	0.549	0.491	10.6	97	0.00
21 T	Allyl Chloride	1.174	1.155	1.6	95	0.00
22 T	trans-1,2-Dichloroethene	0.665	0.676	-1.7	109	0.00
23 T	Vinyl Acetate	1.742	1.780	-2.2	92	0.00
24 T	1,1-Dichloroethane	1.357	1.403	-3.4	104	0.00
25 T	Ethyl Acetate	2.923	2.930	-0.2	92	0.00
26 T	Hexane	1.273	1.308	-2.7	96	0.00
27 T	Carbon Disulfide	1.486	1.577	-6.1	99	0.00
28 T	Methyl tert-Butyl Ether	0.765	0.761	0.5	101	0.00
29 T	Chloroform	2.386	2.398	-0.5	97	0.00
30 T	Cyclohexane	1.065	1.111	-4.3	95	0.00
31 T	cis-1,2-Dichloroethene	1.486	1.508	-1.5	100	0.00
32 T	1,1,1-Trichloroethane	2.589	2.541	1.9	99	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.723	0.685	5.3	95	0.00
35 T	Carbon Tetrachloride	0.908	0.908	0.0	100	0.00
36 T	Benzene	0.944	0.933	1.2	95	0.00
37 T	1,2-Dichloroethane	0.727	0.708	2.6	97	0.00
38 T	Trichloroethene	0.360	0.359	0.3	94	0.00
39 T	1,2-Dichloropropane	0.353	0.327	7.4	94	0.00
40 T	1,4-Dioxane	0.165	0.154	6.7	93	0.00
41 T	Tetrahydrofuran	0.344	0.325	5.5	91	0.00
42 T	Bromodichloromethane	0.889	0.889	0.0	97	0.00
43	Methyl Methacrylate	0.352	0.368	-4.5	92	0.00
44 T	2,2,4-Trimethylpentane	1.530	1.509	1.4	96	0.00
45 T	t-1,3-Dichloropropene	0.462	0.488	-5.6	93	0.00
46 T	cis-1,3-Dichloropropene	0.549	0.570	-3.8	94	0.00
47 T	1,1,2-Trichloroethane	0.387	0.369	4.7	94	0.00
48 T	Dibromochloromethane	0.654	0.661	-1.1	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042467.D
 Acq On : 01 May 2025 15:46
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050125

Quant Time: May 02 03:48:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 02 03:16:31 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	0.556	-1.3	96	0.00
50 T	4-Methyl-2-Pentanone	0.915	0.867	5.2	91	0.00
51 T	2-Hexanone	0.731	0.688	5.9	87	0.00
52 T	Tetrachloroethene	0.359	0.317	11.7	95	0.00
53 T	Toluene	0.999	1.045	-4.6	94	0.00
54 T	1,2-Dibromoethane	0.592	0.572	3.4	94	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.591	0.588	0.5	98	0.00
57 T	Chlorobenzene	1.005	0.948	5.7	95	0.00
58 T	Ethyl Benzene	1.671	1.788	-7.0	93	0.00
59 T	m/p-Xylene	1.401	1.494	-6.6	94	0.03
60 T	o-Xylene	1.403	1.518	-8.2	96	0.00
61 T	Styrene	0.523	0.580	-10.9	90	0.00
62	Isopropylbenzene	2.023	2.153	-6.4	95	0.00
63 T	1,1,2,2-Tetrachloroethane	0.967	0.894	7.5	95	0.00
64	n-propylbenzene	0.495	0.510	-3.0	95	0.00
65	tert-Butylbenzene	1.806	1.927	-6.7	96	0.00
66 T	Benzyl Chloride	0.209	0.223	-6.7	87	0.00
67	sec-Butylbenzene	2.566	2.710	-5.6	96	0.00
68 S	1-Bromo-4-Fluorobenzene	0.927	0.959	-3.5	91	0.00
69	p-Isopropyltoluene	2.162	2.316	-7.1	97	0.00
70	n-Butylbenzene	2.235	2.366	-5.9	97	0.00
71	2-Chlorotoluene	1.587	1.682	-6.0	95	0.00
72 T	4-Ethyltoluene	1.654	1.831	-10.7	96	0.00
73 T	1,3,5-Trimethylbenzene	1.455	1.574	-8.2	96	0.00
74 T	1,2,4-Trimethylbenzene	1.760	1.773	-0.7	97	0.00
75 T	1,3-Dichlorobenzene	0.980	0.956	2.4	96	0.00
76 T	1,4-Dichlorobenzene	0.927	0.967	-4.3	96	0.00
77 T	1,2-Dichlorobenzene	0.959	0.932	2.8	97	0.00
78 T	Hexachloro-1,3-Butadiene	0.958	0.852	11.1	99	0.00
79 T	Naphthalene	1.482	1.601	-8.0	94	0.00
80 T	Naphthalene,2-methyl-	1.101	1.265	-14.9	97	0.00
81 T	1,2,4-Trichlorobenzene	0.790	0.824	-4.3	96	0.00

(#) = Out of Range

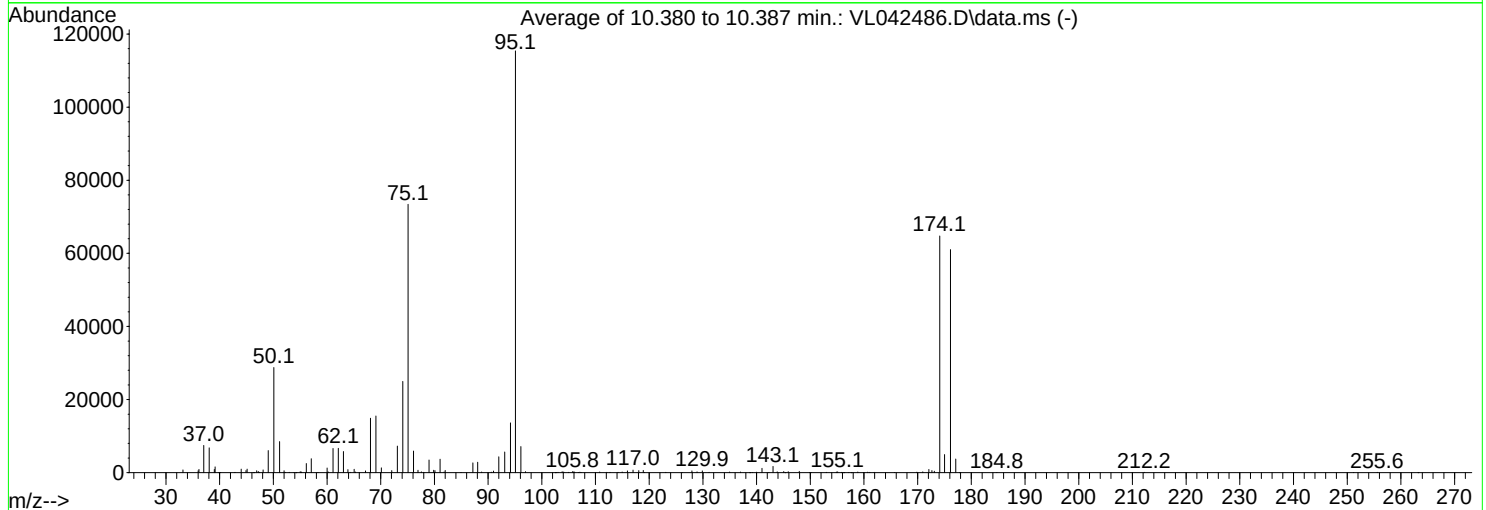
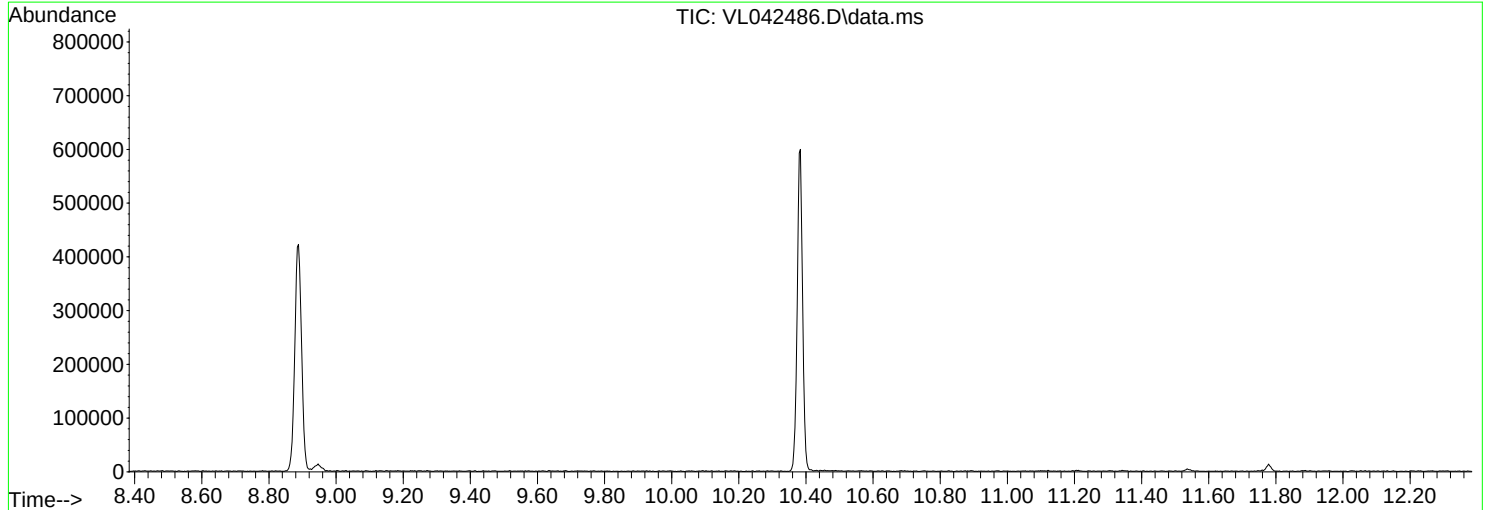
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042486.D
Acq On : 06 May 2025 08:16
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\VL050125AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri May 02 03:16:31 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	24.9	28768	PASS
75	95	30	66	63.6	73411	PASS
95	95	100	100	100.0	115408	PASS
96	95	5	9	6.2	7151	PASS
173	174	0.00	2	0.6	392	PASS
174	95	50	120	56.1	64757	PASS
175	174	4	9	7.6	4952	PASS
176	174	93	101	94.3	61040	PASS
177	176	5	9	6.1	3717	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
 Data File : VL042487.D
 Acq On : 06 May 2025 09:00
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/07/2025
 Supervised By : Mahesh Dadoda 05/09/2025

Quant Time: May 07 01:35:37 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	69320	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	188157	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	161366	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.381 95 165339 11.051 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 110.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	131525	11.466	ppbv	96
3) Chlorodifluoromethane	1.477	51	119859	9.883	ppbv	98
4) Chloromethane	1.535	50	51848	10.814	ppbv	91
5) Vinyl Chloride	1.580	62	47536	9.847	ppbv	95
6) Bromomethane	1.667	94	25689	11.263	ppbv	99
7) Chloroethane	1.706	64	18985	10.651	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	105839	11.192	ppbv	97
9) Propene	1.486	41	34471	8.689	ppbv	96
10) Heptane	4.982	43	103210	10.030	ppbv	96
11) Trichlorofluoromethane	1.878	101	123855	11.700	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.140	101	93934	11.114	ppbv	98
13) Ethanol	1.722	45	6351	7.889	ppbv	98
14) Bromoethene	1.784	108	36335	11.645	ppbv	92
15) Acetone	1.836	43	111680	8.825	ppbv	99
16) 1,3-Butadiene	1.609	39	55608	9.963	ppbv	95
17) tert-Butyl alcohol	2.043	59	118491	10.628	ppbv	97
18) 1,1-Dichloroethene	2.036	96	41887	10.614	ppbv	98
19) Isopropyl Alcohol	1.888	45	69030	9.856	ppbv	100
20) Methylene Chloride	2.062	84	37393	9.829	ppbv	97
21) Allyl Chloride	2.098	41	84167	10.342	ppbv	97
22) trans-1,2-Dichloroethene	2.341	96	47256	10.253	ppbv	95
23) Vinyl Acetate	2.464	43	118463	9.809	ppbv	97
24) 1,1-Dichloroethane	2.409	63	100156	10.651	ppbv	99
25) Ethyl Acetate	2.839	43	201213	9.931	ppbv	99
26) Hexane	2.826	57	88211	9.993	ppbv	97
27) Carbon Disulfide	2.150	76	120690	11.716	ppbv	93
28) Methyl tert-Butyl Ether	2.441	73	51653	9.740	ppbv	98
29) Chloroform	2.852	83	172606	10.435	ppbv	93
30) Cyclohexane	3.859	84	74929	10.153	ppbv	98
31) cis-1,2-Dichloroethene	2.723	61	97864	9.503	ppbv	93
32) 1,1,1-Trichloroethane	3.370	97	182668	10.179	ppbv	99
34) 2-Butanone	2.561	43	131262	9.645	ppbv	97
35) Carbon Tetrachloride	3.765	117	190178	11.127	ppbv	100
36) Benzene	3.661	78	181690	10.233	ppbv	99
37) 1,2-Dichloroethane	3.221	62	146010	10.669	ppbv	98
38) Trichloroethene	4.555	130	71976	10.630	ppbv	90
39) 1,2-Dichloropropane	4.322	63	63612	9.570	ppbv #	87
40) 1,4-Dioxane	4.590	88	29247	9.396	ppbv #	100
41) Tetrahydrofuran	3.059	42	64241	9.932	ppbv	98
42) Bromodichloromethane	4.496	83	185825	11.113	ppbv	91
43) Methyl Methacrylate	4.891	69	72618	10.960	ppbv	96
44) 2,2,4-Trimethylpentane	4.645	57	311522	10.824	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	93178	10.719	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
 Data File : VL042487.D
 Acq On : 06 May 2025 09:00
 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 05/07/2025
 Supervised By :Mahesh Dadoda 05/09/2025

Quant Time: May 07 01:35:37 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	108203	10.473	ppbv	95
47) 1,1,2-Trichloroethane	6.587	97	75237	10.320	ppbv	93
48) Dibromochloromethane	7.393	129	134135	10.899	ppbv	99
49) Bromoform	9.490	173	119371	11.565	ppbv	98
50) 4-Methyl-2-Pentanone	5.759	43	177017	10.283	ppbv	96
51) 2-Hexanone	7.442	43	141871	10.308	ppbv	99
52) Tetrachloroethene	8.228	164	63220	9.354	ppbv	86
53) Toluene	6.940	91	205094	10.913	ppbv	99
54) 1,2-Dibromoethane	7.659	107	117565	10.548	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.934	131	104985	11.016	ppbv	98
57) Chlorobenzene	8.927	112	169084	10.428	ppbv	92
58) Ethyl Benzene	9.361	91	308243	11.431	ppbv	100
59) m/p-Xylene	9.555	91	540767m	23.920	ppbv	
60) o-Xylene	9.969	91	271925	12.013	ppbv	99
61) Styrene	9.876	104	99907	11.828	ppbv	97
62) Isopropylbenzene	10.546	105	384743	11.784	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	167724	10.748	ppbv	99
64) n-propylbenzene	10.992	120	91898	11.517	ppbv	95
65) tert-Butylbenzene	11.536	119	349935	12.010	ppbv	98
66) Benzyl Chloride	11.620	91	43100	12.798	ppbv	99
67) sec-Butylbenzene	11.772	105	496533	11.992	ppbv	99
69) p-Isopropyltoluene	11.931	119	416243	11.931	ppbv	99
70) n-Butylbenzene	12.287	91	437958	12.144	ppbv	100
71) 2-Chlorotoluene	10.905	91	303775	11.862	ppbv	100
72) 4-Ethyltoluene	11.131	105	331569	12.424	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	287473	12.248	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	324889	11.441	ppbv	94
75) 1,3-Dichlorobenzene	11.610	146	175086	11.074	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	178127	11.906	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	170747	11.034	ppbv	100
78) Hexachloro-1,3-Butadiene	13.886	225	152349	9.859	ppbv	99
79) Naphthalene	13.517	128	292585	12.239	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	225180	12.673	ppbv	99
81) 1,2,4-Trichlorobenzene	13.446	180	142121	11.147	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
 Data File : VL042487.D
 Acq On : 06 May 2025 09:00
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: May 07 01:35:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 02 03:16:31 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	97	0.00
2 T	Dichlorodifluoromethane	1.655	1.897	-14.6	125	0.00
3	Chlorodifluoromethane	1.750	1.729	1.2	107	0.00
4	Chloromethane	0.692	0.748	-8.1	116	0.00
5 T	Vinyl Chloride	0.696	0.686	1.4	117	0.00
6 T	Bromomethane	0.329	0.371	-12.8	126	0.00
7	Chloroethane	0.257	0.274	-6.6	115	0.00
8 T	Dichlorotetrafluoroethane	1.364	1.527	-12.0	120	0.00
9 T	Propene	0.572	0.497	13.1	92	0.00
10 T	Heptane	1.484	1.489	-0.3	100	0.00
11 T	Trichlorofluoromethane	1.527	1.787	-17.0	126	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.219	1.355	-11.2	120	0.00
13	Ethanol	0.116	0.092	20.7	112	0.00
14 T	Bromoethene	0.450	0.524	-16.4	128	0.00
15 T	Acetone	1.826	1.611	11.8	119	0.00
16 T	1,3-Butadiene	0.805	0.802	0.4	114	0.00
17	tert-Butyl alcohol	1.608	1.709	-6.3	111	0.00
18 T	1,1-Dichloroethene	0.569	0.604	-6.2	119	0.00
19 T	Isopropyl Alcohol	1.010	0.996	1.4	110	0.00
20 T	Methylene Chloride	0.549	0.539	1.8	117	0.00
21 T	Allyl Chloride	1.174	1.214	-3.4	110	0.00
22 T	trans-1,2-Dichloroethene	0.665	0.682	-2.6	120	0.00
23 T	Vinyl Acetate	1.742	1.709	1.9	96	0.00
24 T	1,1-Dichloroethane	1.357	1.445	-6.5	117	0.00
25 T	Ethyl Acetate	2.923	2.903	0.7	100	0.00
26 T	Hexane	1.273	1.273	0.0	102	0.00
27 T	Carbon Disulfide	1.486	1.741	-17.2	119	0.00
28 T	Methyl tert-Butyl Ether	0.765	0.745	2.6	108	0.00
29 T	Chloroform	2.386	2.490	-4.4	110	0.00
30 T	Cyclohexane	1.065	1.081	-1.5	100	0.00
31 T	cis-1,2-Dichloroethene	1.486	1.412	5.0	102	0.00
32 T	1,1,1-Trichloroethane	2.589	2.635	-1.8	112	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34 T	2-Butanone	0.723	0.698	3.5	99	0.00
35 T	Carbon Tetrachloride	0.908	1.011	-11.3	114	0.00
36 T	Benzene	0.944	0.966	-2.3	101	0.00
37 T	1,2-Dichloroethane	0.727	0.776	-6.7	109	0.00
38 T	Trichloroethene	0.360	0.383	-6.4	103	0.01
39 T	1,2-Dichloropropane	0.353	0.338	4.2	100	0.01
40 T	1,4-Dioxane	0.165	0.155	6.1	97	0.00
41 T	Tetrahydrofuran	0.344	0.341	0.9	98	0.00
42 T	Bromodichloromethane	0.889	0.988	-11.1	110	0.01
43	Methyl Methacrylate	0.352	0.386	-9.7	99	0.01
44 T	2,2,4-Trimethylpentane	1.530	1.656	-8.2	108	0.01
45 T	t-1,3-Dichloropropene	0.462	0.495	-7.1	96	0.01
46 T	cis-1,3-Dichloropropene	0.549	0.575	-4.7	97	0.00
47 T	1,1,2-Trichloroethane	0.387	0.400	-3.4	105	0.00
48 T	Dibromochloromethane	0.654	0.713	-9.0	106	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
 Data File : VL042487.D
 Acq On : 06 May 2025 09:00
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: May 07 01:35:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 02 03:16:31 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	0.634	-15.5	112	0.01
50 T	4-Methyl-2-Pentanone	0.915	0.941	-2.8	101	0.01
51 T	2-Hexanone	0.731	0.754	-3.1	98	0.00
52 T	Tetrachloroethene	0.359	0.336	6.4	103	0.00
53 T	Toluene	0.999	1.090	-9.1	100	0.01
54 T	1,2-Dibromoethane	0.592	0.625	-5.6	105	0.01
55 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	0.591	0.651	-10.2	111	0.01
57 T	Chlorobenzene	1.005	1.048	-4.3	107	0.00
58 T	Ethyl Benzene	1.671	1.910	-14.3	103	0.00
59 T	m/p-Xylene	1.401	1.676	-19.6	109	0.03
60 T	o-Xylene	1.403	1.685	-20.1	110	0.00
61 T	Styrene	0.523	0.619	-18.4	98	0.00
62	Isopropylbenzene	2.023	2.384	-17.8	109	0.00
63 T	1,1,2,2-Tetrachloroethane	0.967	1.039	-7.4	114	0.00
64	n-propylbenzene	0.495	0.570	-15.2	109	0.00
65	tert-Butylbenzene	1.806	2.169	-20.1	111	0.00
66 T	Benzyl Chloride	0.209	0.267	-27.8	107	0.00
67	sec-Butylbenzene	2.566	3.077	-19.9	112	0.00
68 S	1-Bromo-4-Fluorobenzene	0.927	1.025	-10.6	100	0.00
69	p-Isopropyltoluene	2.162	2.579	-19.3	111	0.00
70	n-Butylbenzene	2.235	2.714	-21.4	114	0.00
71	2-Chlorotoluene	1.587	1.883	-18.7	109	0.00
72 T	4-Ethyltoluene	1.654	2.055	-24.2	111	0.00
73 T	1,3,5-Trimethylbenzene	1.455	1.781	-22.4	112	0.00
74 T	1,2,4-Trimethylbenzene	1.760	2.013	-14.4	113	0.00
75 T	1,3-Dichlorobenzene	0.980	1.085	-10.7	113	0.00
76 T	1,4-Dichlorobenzene	0.927	1.104	-19.1	113	0.00
77 T	1,2-Dichlorobenzene	0.959	1.058	-10.3	114	0.00
78 T	Hexachloro-1,3-Butadiene	0.958	0.944	1.5	113	0.00
79 T	Naphthalene	1.482	1.813	-22.3	110	0.00
80 T	Naphthalene,2-methyl-	1.101	1.395	-26.7	110	0.00
81 T	1,2,4-Trichlorobenzene	0.790	0.881	-11.5	105	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
 Data File : VL042488.D
 Acq On : 06 May 2025 09:49
 Operator : SY/MD
 Sample : VL0506ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0506ABL01

Quant Time: May 07 01:36:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 02 03:16:31 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	71766	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	194806	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	158449	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	146316	9.960	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%

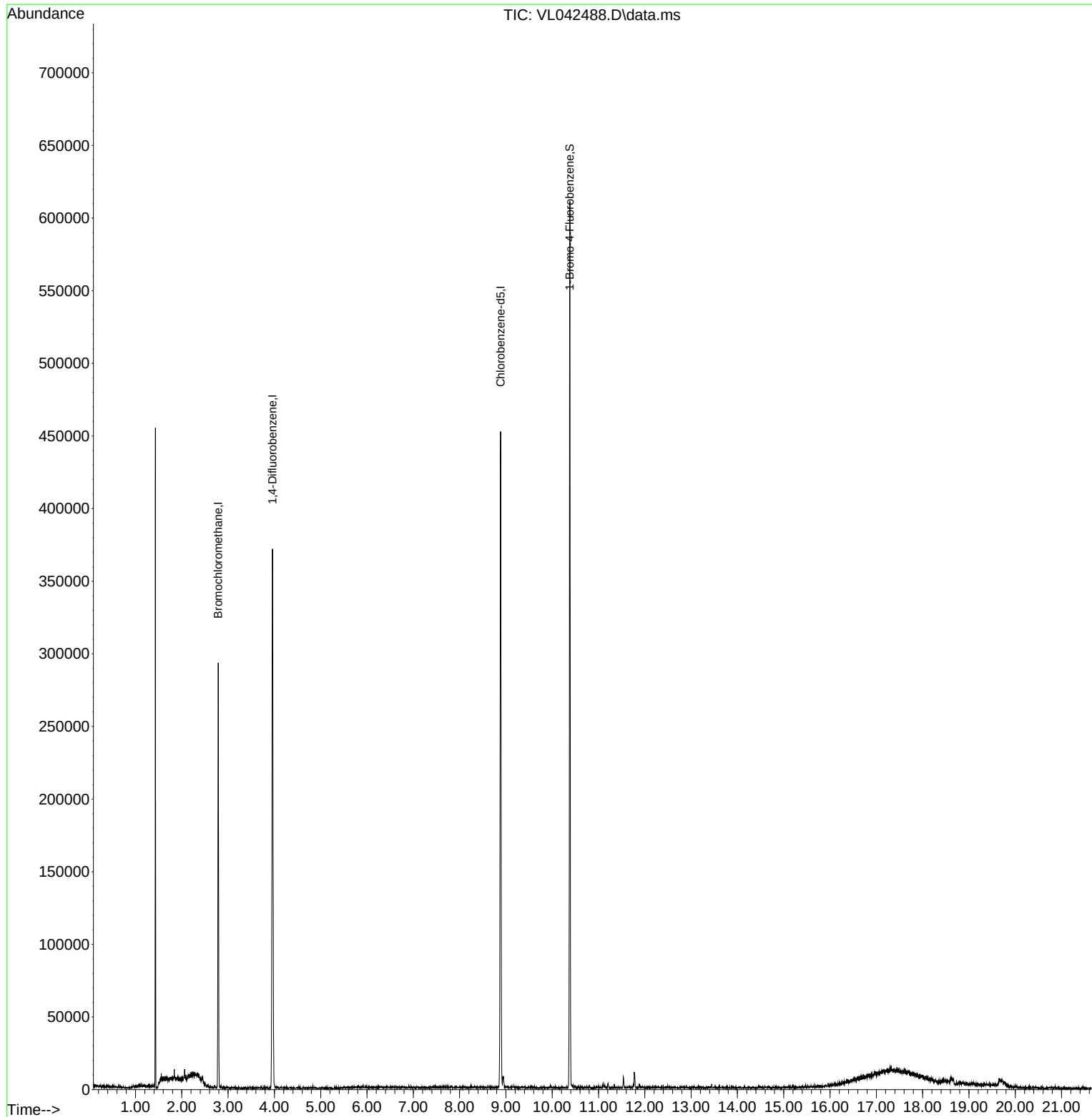
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042488.D
Acq On : 06 May 2025 09:49
Operator : SY/MD
Sample : VL0506ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABL01

Quant Time: May 07 01:36:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
 Data File : VL042489.D
 Acq On : 06 May 2025 10:44
 Operator : SY/MD
 Sample : VL0506ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0506ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2025
 Supervised By :Mahesh Dadoda 05/09/2025

Quant Time: May 07 01:36:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	68512	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	189766	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	162176	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 162347 10.797 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 108.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	128425	11.327	ppbv	99
3) Chlorodifluoromethane	1.476	51	120834	10.080	ppbv	98
4) Chloromethane	1.531	50	51363	10.839	ppbv	94
5) Vinyl Chloride	1.580	62	50552	10.596	ppbv	95
6) Bromomethane	1.667	94	24844	11.021	ppbv #	81
7) Chloroethane	1.706	64	19253	10.929	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	108256	11.583	ppbv	99
9) Propene	1.483	41	36687	9.357	ppbv	100
10) Heptane	4.985	43	108748	10.693	ppbv	99
11) Trichlorofluoromethane	1.878	101	118964	11.371	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	92491	11.072	ppbv	97
13) Ethanol	1.722	45	5717	7.185	ppbv	96
14) Bromoethene	1.781	108	35036	11.361	ppbv	99
15) Acetone	1.836	43	110911	8.868	ppbv	98
16) 1,3-Butadiene	1.609	39	57769	10.473	ppbv	100
17) tert-Butyl alcohol	2.043	59	121629	11.038	ppbv	98
18) 1,1-Dichloroethene	2.033	96	41573	10.658	ppbv	91
19) Isopropyl Alcohol	1.887	45	70143	10.133	ppbv	100
20) Methylene Chloride	2.062	84	38025	10.113	ppbv	97
21) Allyl Chloride	2.095	41	87030	10.820	ppbv	98
22) trans-1,2-Dichloroethene	2.341	96	46194	10.140	ppbv	92
23) Vinyl Acetate	2.463	43	122507	10.263	ppbv	99
24) 1,1-Dichloroethane	2.408	63	99878	10.747	ppbv	98
25) Ethyl Acetate	2.839	43	207809	10.377	ppbv	99
26) Hexane	2.826	57	94005	10.775	ppbv	95
27) Carbon Disulfide	2.150	76	118732	11.662	ppbv #	89
28) Methyl tert-Butyl Ether	2.441	73	52295	9.977	ppbv	97
29) Chloroform	2.849	83	178140	10.896	ppbv	98
30) Cyclohexane	3.858	84	78419	10.751	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	102999	10.119	ppbv	97
32) 1,1,1-Trichloroethane	3.370	97	185042	10.433	ppbv	99
34) 2-Butanone	2.561	43	135534	9.874	ppbv	95
35) Carbon Tetrachloride	3.765	117	192452	11.164	ppbv	96
36) Benzene	3.658	78	188082	10.503	ppbv	96
37) 1,2-Dichloroethane	3.221	62	150741	10.922	ppbv	99
38) Trichloroethene	4.554	130	75153	11.005	ppbv	97
39) 1,2-Dichloropropane	4.315	63	67616	10.086	ppbv	92
40) 1,4-Dioxane	4.583	88	30720	9.786	ppbv #	100
41) Tetrahydrofuran	3.056	42	66397	10.179	ppbv	98
42) Bromodichloromethane	4.496	83	188247	11.163	ppbv	96
43) Methyl Methacrylate	4.888	69	73710	11.030	ppbv	95
44) 2,2,4-Trimethylpentane	4.642	57	317017	10.921	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	95245	10.864	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
 Data File : VL042489.D
 Acq On : 06 May 2025 10:44
 Operator : SY/MD
 Sample : VL0506ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0506ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/07/2025
 Supervised By : Mahesh Dadoda 05/09/2025

Quant Time: May 07 01:36:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

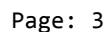
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	112024	10.751	ppbv	96
47) 1,1,2-Trichloroethane	6.590	97	80000	10.880	ppbv	99
48) Dibromochloromethane	7.390	129	137019	11.039	ppbv	99
49) Bromoform	9.487	173	115649	11.110	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	179961	10.365	ppbv	97
51) 2-Hexanone	7.441	43	143801	10.359	ppbv #	99
52) Tetrachloroethene	8.228	164	61852	9.074	ppbv	94
53) Toluene	6.940	91	211514	11.159	ppbv	99
54) 1,2-Dibromoethane	7.655	107	119785	10.656	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.927	131	107810	11.256	ppbv	99
57) Chlorobenzene	8.927	112	170186	10.444	ppbv	98
58) Ethyl Benzene	9.361	91	316187	11.667	ppbv	100
59) m/p-Xylene	9.555	91	546871m	24.069	ppbv	
60) o-Xylene	9.966	91	275574	12.114	ppbv	98
61) Styrene	9.875	104	100944	11.891	ppbv	95
62) Isopropylbenzene	10.542	105	386743	11.786	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	168155	10.722	ppbv	99
64) n-propylbenzene	10.992	120	95485	11.906	ppbv	98
65) tert-Butylbenzene	11.536	119	347665	11.872	ppbv	97
66) Benzyl Chloride	11.617	91	44409	13.121	ppbv	96
67) sec-Butylbenzene	11.772	105	500648	12.031	ppbv	99
69) p-Isopropyltoluene	11.931	119	418184	11.927	ppbv	99
70) n-Butylbenzene	12.283	91	439757	12.133	ppbv	99
71) 2-Chlorotoluene	10.905	91	304635	11.836	ppbv	99
72) 4-Ethyltoluene	11.128	105	332254	12.388	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	285001	12.082	ppbv	94
74) 1,2,4-Trimethylbenzene	11.539	105	326996	11.457	ppbv	95
75) 1,3-Dichlorobenzene	11.610	146	176191	11.089	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	173576	11.543	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	171125	11.003	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	153031	9.854	ppbv	99
79) Naphthalene	13.517	128	289175	12.036	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	236741	13.257	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	142190	11.096	ppbv	98

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

Manual Integrations APPROVED

Quant Time: May 07 01:36:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
 Data File : VL042491.D
 Acq On : 06 May 2025 11:47
 Operator : SY/MD
 Sample : QC042925 CAN 10590
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC042925 CAN 10590

Quant Time: May 07 01:38:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 02 03:16:31 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	66497	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	175336	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	146419	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	132588	9.767	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%

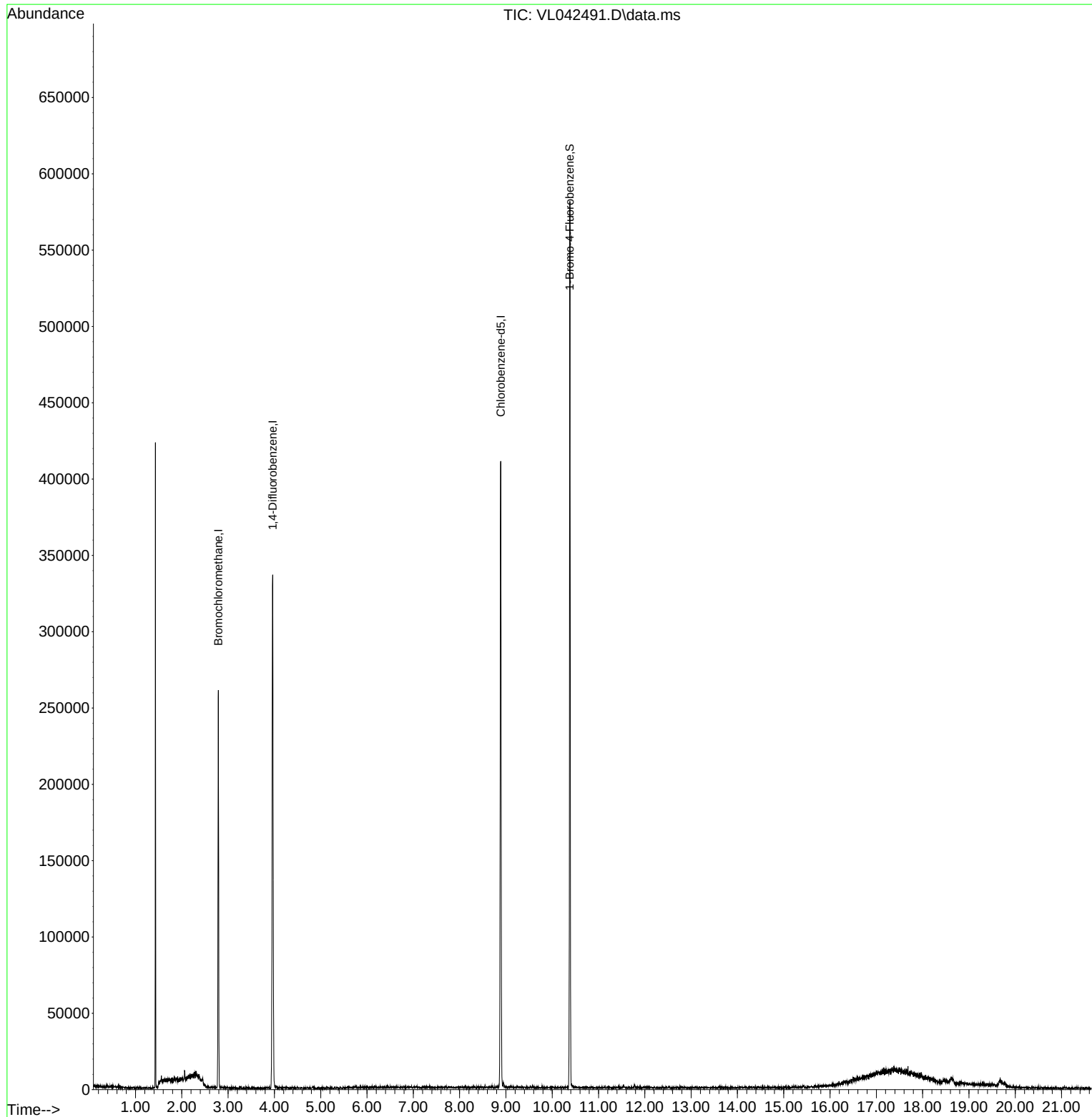
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042491.D
Acq On : 06 May 2025 11:47
Operator : SY/MD
Sample : QC042925 CAN 10590
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC042925 CAN 10590

Quant Time: May 07 01:38:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL050125

Review By	Semsettin Yesilyurt	Review On	5/2/2025 7:59:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:55:39 PM		
SubDirectory	VL050125	HP Acquire Method	TO15AIR.M	HP Processing Method	VL050125AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2603			
Initial Calibration Stds		AP2606,AP2607,AP2608			
CCC		AP2606			
Internal Standard/PEM		AP2603			
ICV/I.BLK		AP2609			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042457.D	01 May 2025 08:19	SY/MD	Ok
2	VSTDICCC010	VL042458.D	01 May 2025 09:03	SY/MD	Ok,M
3	VSTDICCC002	VL042459.D	01 May 2025 09:37	SY/MD	Ok,M
4	VSTDICCC001	VL042460.D	01 May 2025 10:08	SY/MD	Ok,M
5	VSTDICCC0.5	VL042461.D	01 May 2025 10:40	SY/MD	Ok,M
6	VSTDICCC0.1	VL042462.D	01 May 2025 11:12	SY/MD	Ok,M
7	VSTDICCC0.03	VL042463.D	01 May 2025 11:44	SY/MD	Not Ok
8	VSTDICCC0.03	VL042464.D	01 May 2025 12:15	SY/MD	Not Ok
9	VSTDICCC015	VL042465.D	01 May 2025 12:49	SY/MD	Ok,M
10	VSTDICCC0.03	VL042466.D	01 May 2025 14:10	SY/MD	Ok,M
11	VSTDICV010	VL042467.D	01 May 2025 15:46	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL050625

Review By	Semsettin Yesilyurt	Review On	5/9/2025 2:37:46 PM
Supervise By	Maresh Dadoda	Supervise On	5/9/2025 2:51:31 PM
SubDirectory	VL050625	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL050125AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2603		
Initial Calibration Stds	AP2606,AP2607,AP2608		
CCC	AP2606		
Internal Standard/PEM	AP2603		
ICV/I.BLK	AP2609		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042486.D	06 May 2025 08:16	SY/MD	Ok
2	VSTDCCC010	VL042487.D	06 May 2025 09:00	SY/MD	Ok,M
3	VL0506ABL01	VL042488.D	06 May 2025 09:49	SY/MD	Ok
4	VL0506ABS01	VL042489.D	06 May 2025 10:44	SY/MD	Ok,M
5	QC043025 CAN 10605	VL042490.D	06 May 2025 11:15	SY/MD	Ok
6	QC042925 CAN 10590	VL042491.D	06 May 2025 11:47	SY/MD	Ok
7	QC042225 CAN 10669	VL042492.D	06 May 2025 12:19	SY/MD	Ok
8	QC042325 CAN 10683	VL042493.D	06 May 2025 12:51	SY/MD	Ok
9	QC0429325 CAN 10458	VL042494.D	06 May 2025 13:23	SY/MD	Ok
10	MDL1 0.45	VL042495.D	06 May 2025 14:26	SY/MD	Ok,M
11	MDL2 0.45	VL042496.D	06 May 2025 14:57	SY/MD	Ok,M
12	MDL3 0.45	VL042497.D	06 May 2025 15:29	SY/MD	Not Ok
13	MDL1 0.03	VL042498.D	06 May 2025 16:01	SY/MD	Ok,M
14	MDL2 0.03	VL042499.D	06 May 2025 16:32	SY/MD	Not Ok
15	MDL3 0.03	VL042500.D	06 May 2025 17:04	SY/MD	Ok,M
16	MDL1 0.40	VL042501.D	06 May 2025 17:36	SY/MD	Ok,M
17	MDL2 0.40	VL042502.D	06 May 2025 18:07	SY/MD	Ok,M
18	MDL3 0.40	VL042503.D	06 May 2025 18:39	SY/MD	Ok,M
19	MDL1 0.1	VL042504.D	06 May 2025 19:10	SY/MD	Ok,M
20	MDL2 0.1	VL042505.D	06 May 2025 19:42	SY/MD	Ok,M
21	MDL3 0.1	VL042506.D	06 May 2025 20:13	SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL050625

Review By	Semsettin Yesilyurt	Review On	5/9/2025 2:37:46 PM		
Supervise By	Mahesh Dadoda	Supervise On	5/9/2025 2:51:31 PM		
SubDirectory	VL050625	HP Acquire Method	TO15AIR.M	HP Processing Method	VL050125AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2603			
Initial Calibration Stds		AP2606,AP2607,AP2608			
CCC		AP2606			
Internal Standard/PEM		AP2603			
ICV/I.BLK		AP2609			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	VSTDCCC010	VL042507.D	06 May 2025 20:45	SY/MD	Ok,M

M : Manual Integration

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042579.D
 Acq On : 29 May 2025 11:09
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: May 30 01:16:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	102792	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	307854	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	285844	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	212758	9.929	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	116625	9.232	ppbv	100
3) Chlorodifluoromethane	1.476	51	151637	8.715	ppbv	100
4) Chloromethane	1.534	50	47416	9.478	ppbv	100
5) Vinyl Chloride	1.580	62	44895	8.809	ppbv	100
6) Bromomethane	1.667	94	22207	8.953	ppbv	100
7) Chloroethane	1.706	64	17953	9.066	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	97419	9.255	ppbv	100
9) Propene	1.483	41	66767	9.529	ppbv	100
10) Heptane	4.981	43	182619	9.236	ppbv	100
11) Trichlorofluoromethane	1.877	101	110055	9.363	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	86117	9.330	ppbv	100
13) Ethanol	1.722	45	5404	6.909	ppbv	95
14) Bromoethene	1.784	108	32588	9.386	ppbv	100
15) Acetone	1.835	43	95441	7.708	ppbv	100
16) 1,3-Butadiene	1.609	39	50485	8.607	ppbv	100
17) tert-Butyl alcohol	2.043	59	127162	9.858	ppbv	100
18) 1,1-Dichloroethene	2.036	96	38765	9.026	ppbv	100
19) Isopropyl Alcohol	1.887	45	67731	9.151	ppbv	100
20) Methylene Chloride	2.062	84	33544	8.209	ppbv	100
21) Allyl Chloride	2.098	41	81153	9.289	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	43936	9.165	ppbv	100
23) Vinyl Acetate	2.467	43	149858	8.954	ppbv	100
24) 1,1-Dichloroethane	2.412	63	92836	9.442	ppbv	100
25) Ethyl Acetate	2.839	43	313915	9.264	ppbv	100
26) Hexane	2.829	57	138771	9.013	ppbv	100
27) Carbon Disulfide	2.153	76	109904	9.298	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	56510	9.045	ppbv	100
29) Chloroform	2.852	83	180449	9.013	ppbv	100
30) Cyclohexane	3.858	84	117833	9.232	ppbv	100
31) cis-1,2-Dichloroethene	2.722	61	130618	9.274	ppbv	100
32) 1,1,1-Trichloroethane	3.370	97	184372	9.177	ppbv	100
34) 2-Butanone	2.560	43	201796	9.192	ppbv	100
35) Carbon Tetrachloride	3.768	117	185629	9.132	ppbv	100
36) Benzene	3.661	78	277132	9.142	ppbv	100
37) 1,2-Dichloroethane	3.221	62	137914	9.153	ppbv	100
38) Trichloroethene	4.551	130	115772	8.916	ppbv	100
39) 1,2-Dichloropropane	4.318	63	101185	9.029	ppbv	100
40) 1,4-Dioxane	4.590	88	46671	9.797	ppbv #	100
41) Tetrahydrofuran	3.059	42	119530	9.301	ppbv	100
42) Bromodichloromethane	4.496	83	202026	9.441	ppbv	100
43) Methyl Methacrylate	4.884	69	112746	9.595	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	468572	9.043	ppbv	100
45) t-1,3-Dichloropropene	6.422	75	130611	9.700	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042579.D
 Acq On : 29 May 2025 11:09
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: May 30 01:16:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

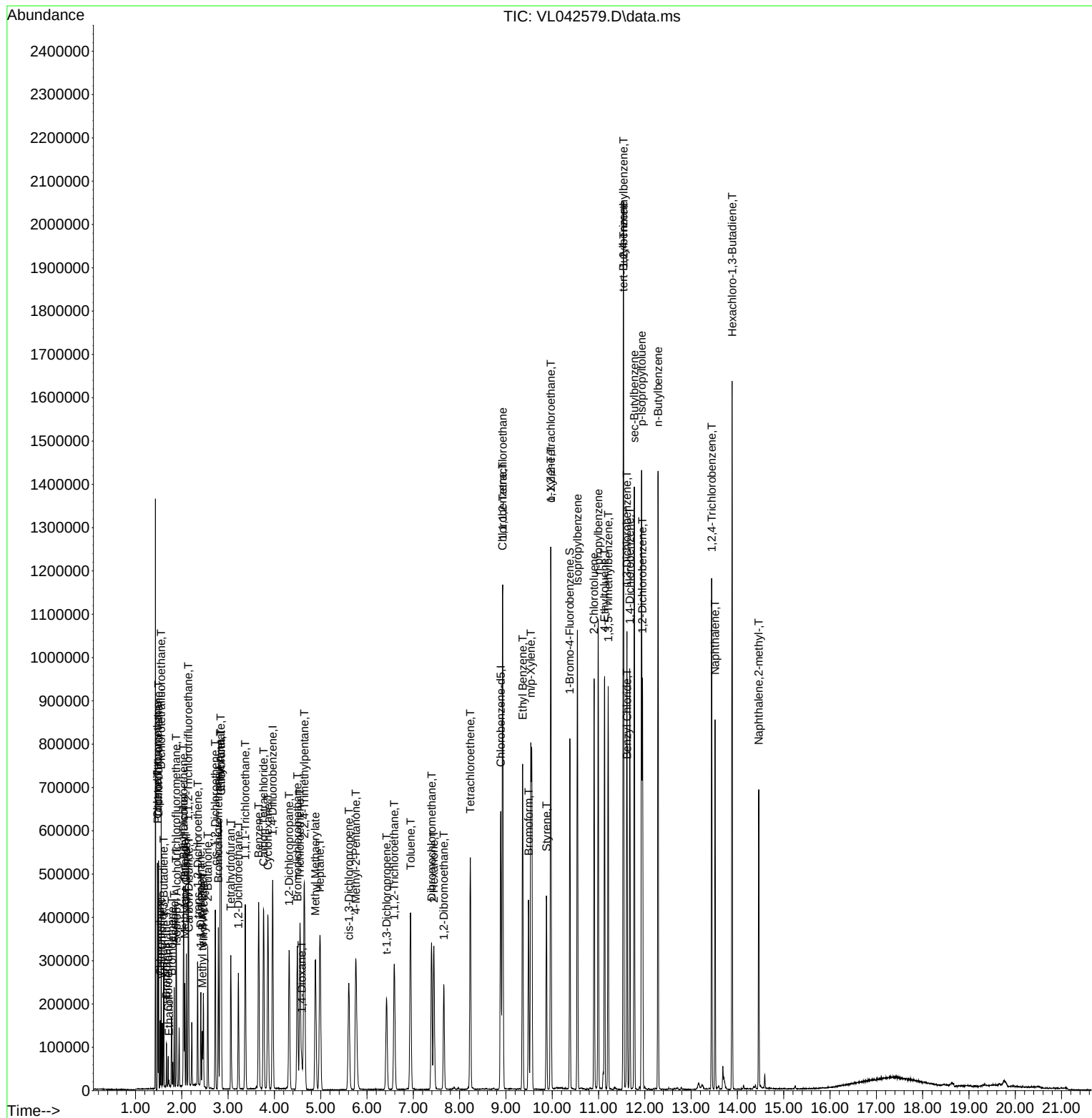
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	162155	9.614	ppbv	100
47) 1,1,2-Trichloroethane	6.587	97	105576	9.097	ppbv	100
48) Dibromochloromethane	7.396	129	175572	9.450	ppbv	100
49) Bromoform	9.490	173	156317	9.751	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	294836	9.643	ppbv	100
51) 2-Hexanone	7.445	43	239826	9.930	ppbv	100
52) Tetrachloroethene	8.231	164	102403	9.038	ppbv	100
53) Toluene	6.943	91	324605	9.264	ppbv	100
54) 1,2-Dibromoethane	7.658	107	158813	9.231	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	133368	9.279	ppbv	100
57) Chlorobenzene	8.927	112	248085	8.938	ppbv	100
58) Ethyl Benzene	9.361	91	442268	9.121	ppbv	100
59) m/p-Xylene	9.539	91	335232	8.784	ppbv #	29
60) o-Xylene	9.969	91	339403	8.919	ppbv	100
61) Styrene	9.875	104	168674	9.374	ppbv	100
62) Isopropylbenzene	10.545	105	506586	9.010	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	206564	8.536	ppbv	100
64) n-propylbenzene	10.992	120	134675	8.936	ppbv	99
65) tert-Butylbenzene	11.536	119	450639	8.833	ppbv	100
66) Benzyl Chloride	11.620	91	68801	10.457	ppbv	100
67) sec-Butylbenzene	11.772	105	627565	8.749	ppbv	100
69) p-Isopropyltoluene	11.931	119	533961	8.889	ppbv	100
70) n-Butylbenzene	12.287	91	526566	8.881	ppbv	100
71) 2-Chlorotoluene	10.904	91	383881	8.952	ppbv	100
72) 4-Ethyltoluene	11.131	105	423227	8.920	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	352978	8.989	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	381512	8.755	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	239782	8.762	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	242731	8.894	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	228222	8.593	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	173447	7.893	ppbv	100
79) Naphthalene	13.516	128	395465	9.666	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	204746	11.045	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	210120	9.163	ppbv	100

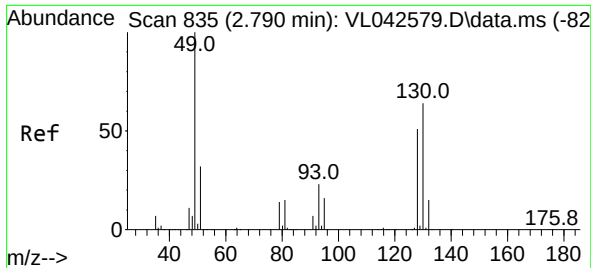
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042579.D
 Acq On : 29 May 2025 11:09
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: May 30 01:16:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

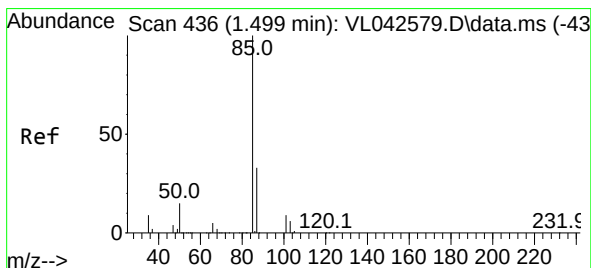
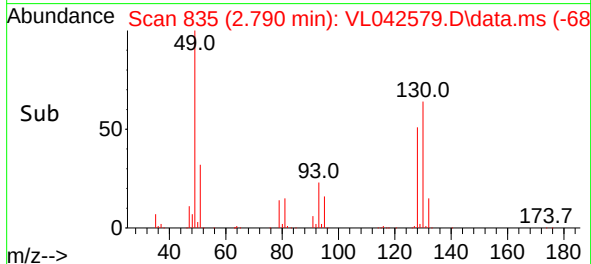
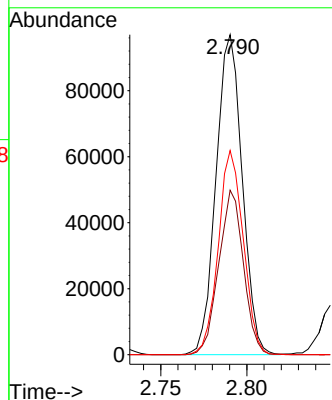
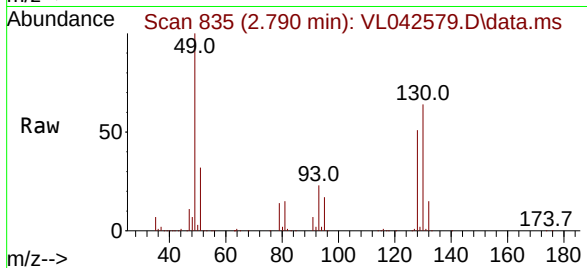




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

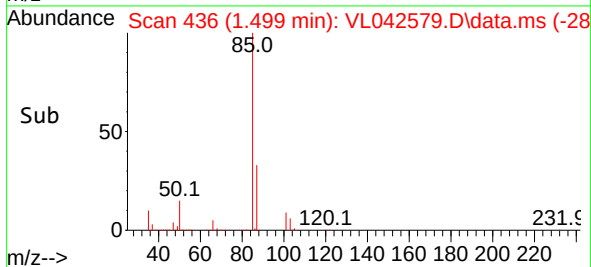
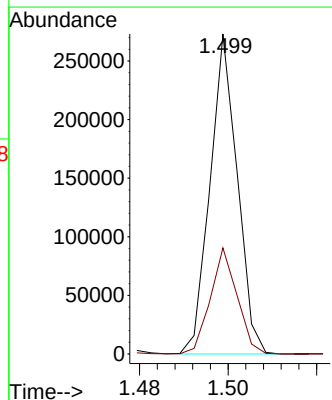
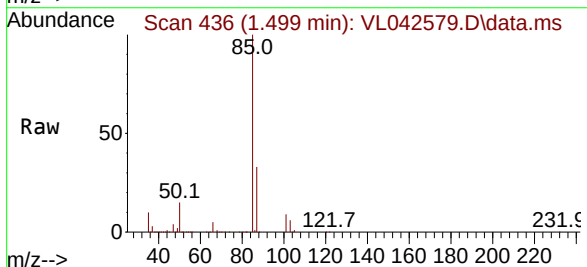
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

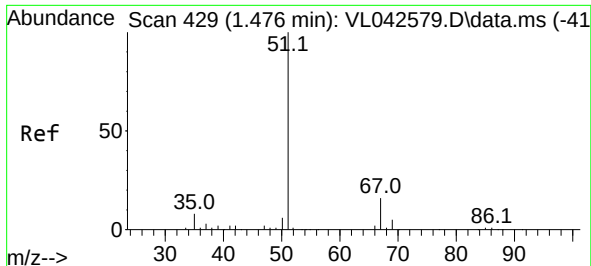
Tgt Ion: 49 Resp: 102792
Ion Ratio Lower Upper
49 100
128 48.4 24.2 72.6
130 60.8 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 9.232 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion: 85 Resp: 116625
Ion Ratio Lower Upper
85 100
87 33.2 26.6 39.8





#3

Chlorodifluoromethane

Concen: 8.715 ppbv

RT: 1.476 min Scan# 429

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_1

ClientSampleId :

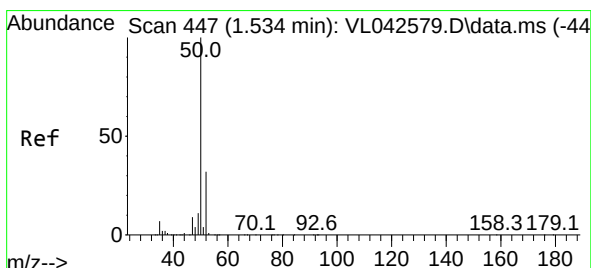
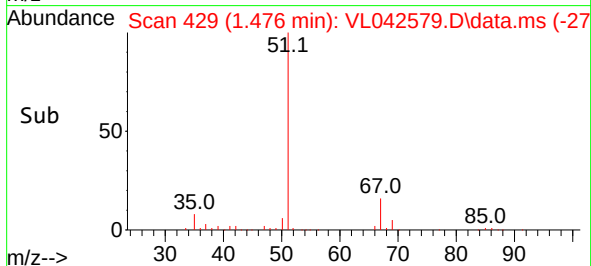
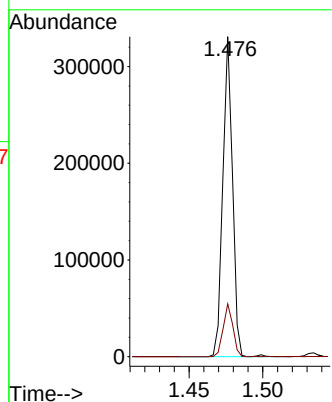
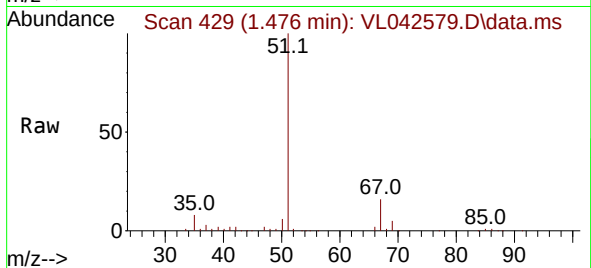
VSTDICCC010

Tgt Ion: 51 Resp: 151637

Ion Ratio Lower Upper

51 100

67 16.8 13.4 20.2



#4

Chloromethane

Concen: 9.478 ppbv

RT: 1.534 min Scan# 447

Delta R.T. 0.000 min

Lab File: VL042579.D

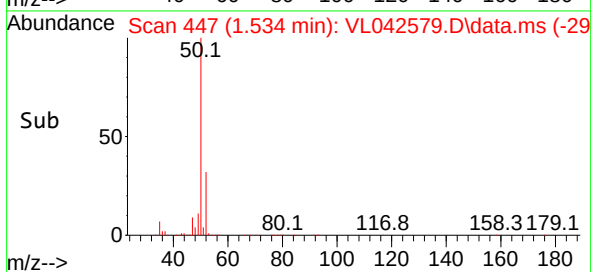
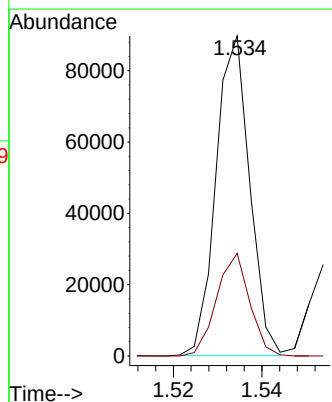
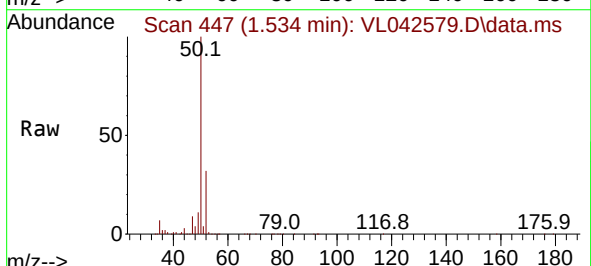
Acq: 29 May 2025 11:09

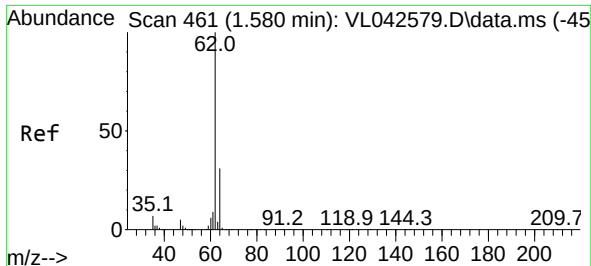
Tgt Ion: 50 Resp: 47416

Ion Ratio Lower Upper

50 100

52 32.2 25.8 38.6

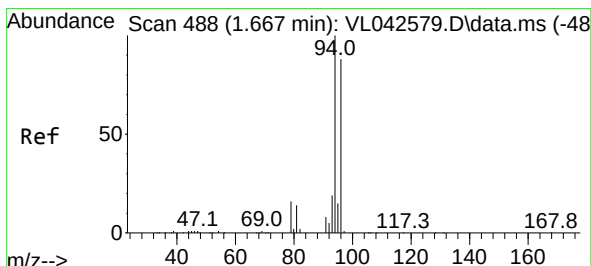
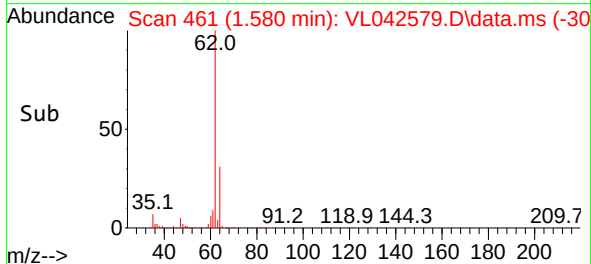
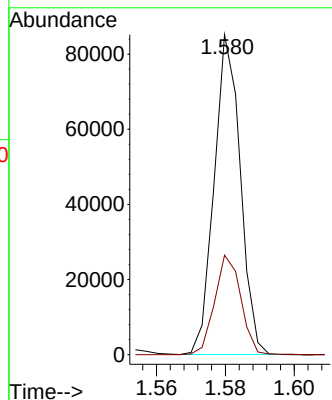
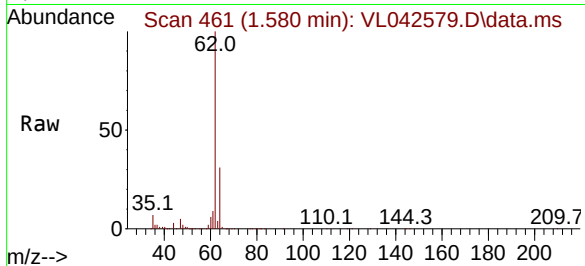




#5
 Vinyl Chloride
 Concen: 8.809 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

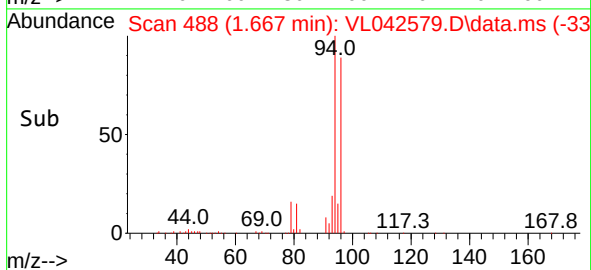
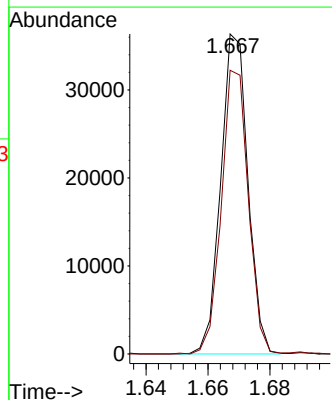
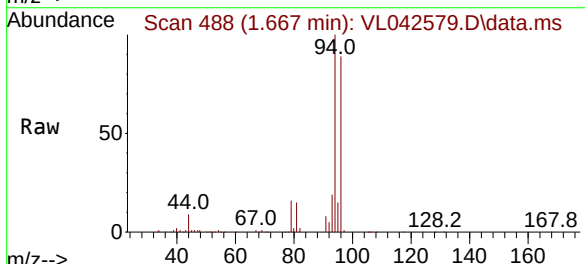
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

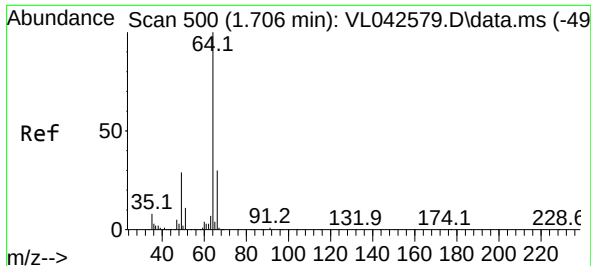
Tgt Ion: 62 Resp: 44895
 Ion Ratio Lower Upper
 62 100
 64 31.1 24.9 37.3



#6
 Bromomethane
 Concen: 8.953 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

Tgt Ion: 94 Resp: 22207
 Ion Ratio Lower Upper
 94 100
 96 88.4 70.7 106.1

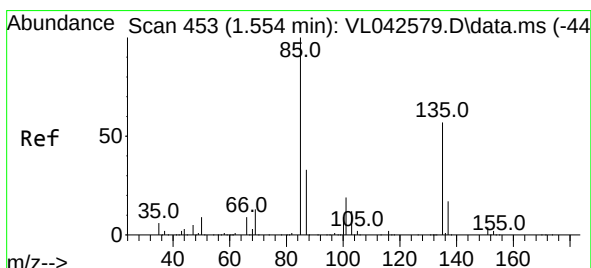
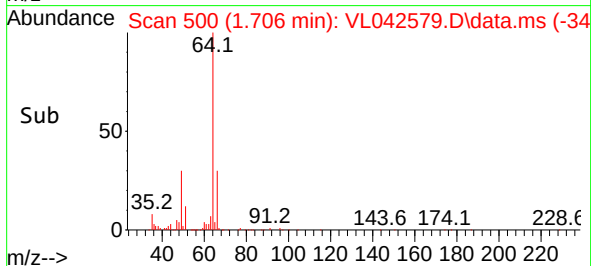
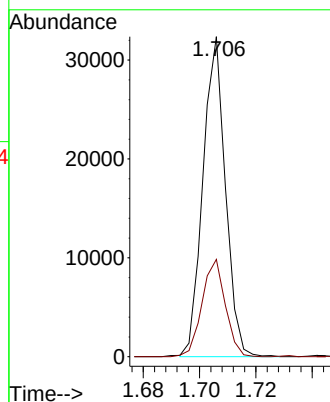
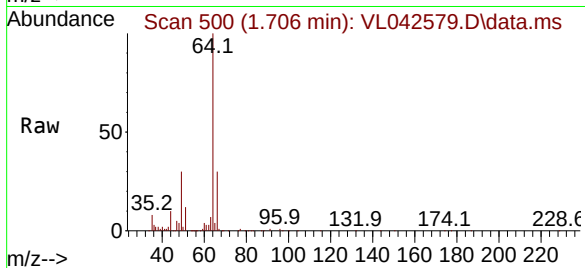




#7
Chloroethane
Concen: 9.066 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

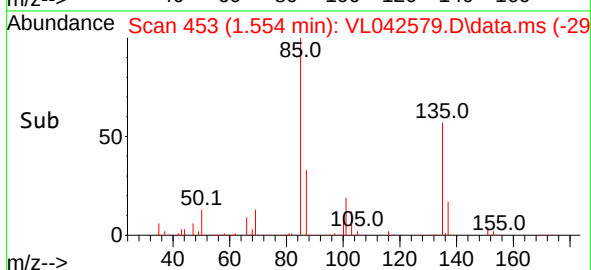
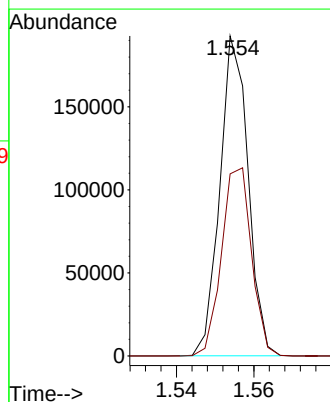
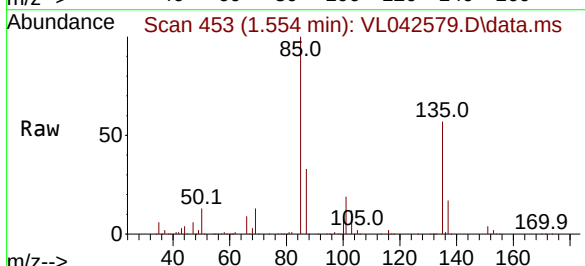
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

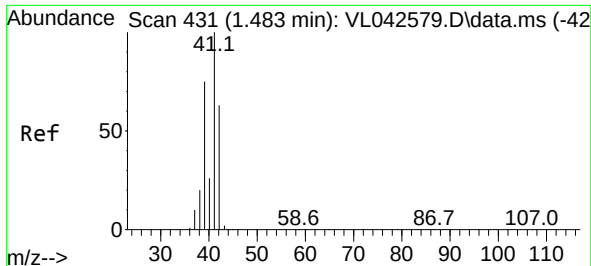
Tgt Ion: 64 Resp: 17953
Ion Ratio Lower Upper
64 100
66 30.4 24.3 36.5



#8
Dichlorotetrafluoroethane
Concen: 9.255 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion: 85 Resp: 97419
Ion Ratio Lower Upper
85 100
135 62.8 50.2 75.4





#9

Propene

Concen: 9.529 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

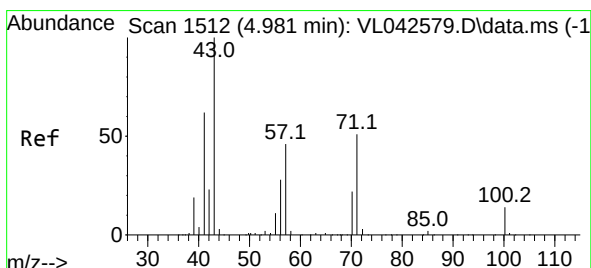
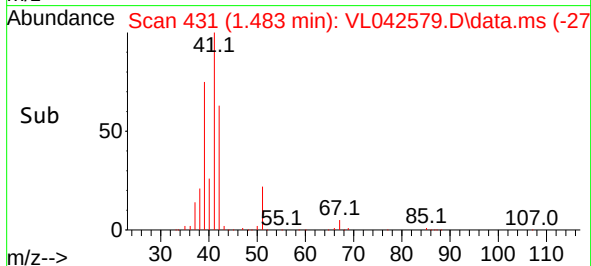
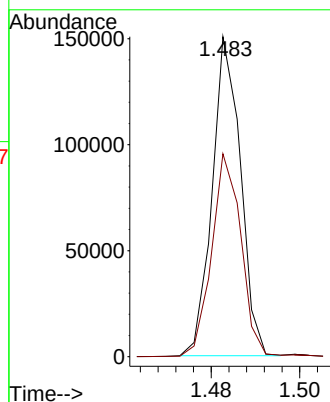
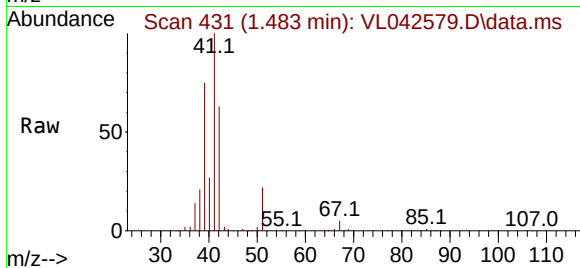
VSTDICCC010

Tgt Ion: 41 Resp: 66767

Ion Ratio Lower Upper

41 100

42 66.9 53.3 79.9



#10

Heptane

Concen: 9.236 ppbv

RT: 4.981 min Scan# 1512

Delta R.T. 0.000 min

Lab File: VL042579.D

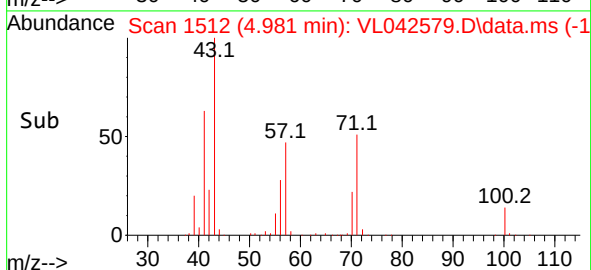
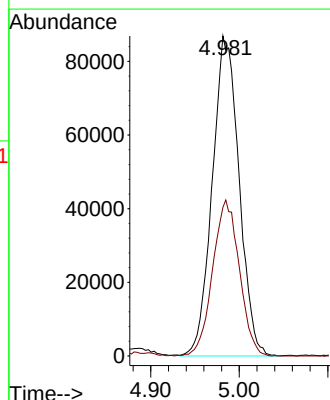
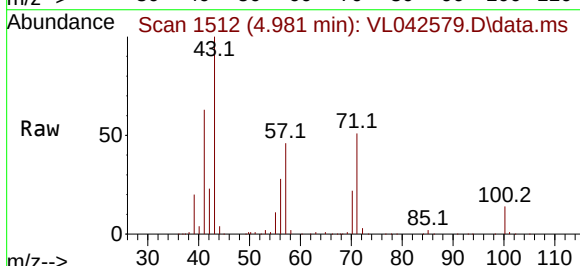
Acq: 29 May 2025 11:09

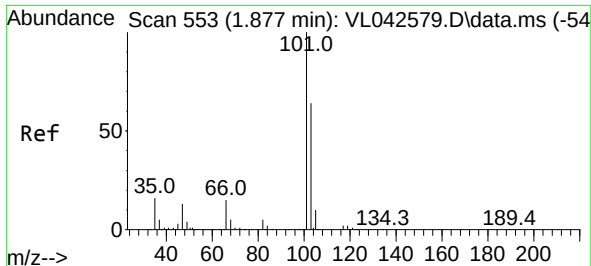
Tgt Ion: 43 Resp: 182619

Ion Ratio Lower Upper

43 100

57 48.6 38.9 58.3

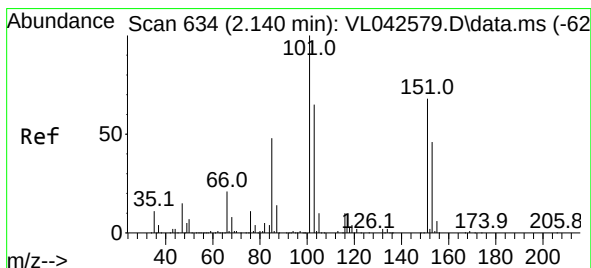
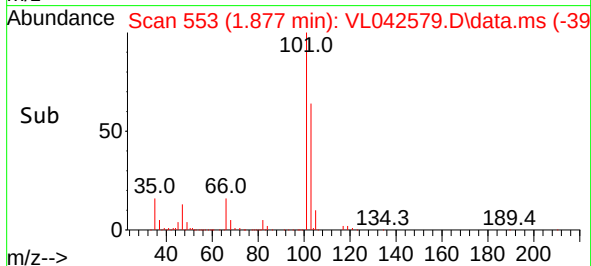
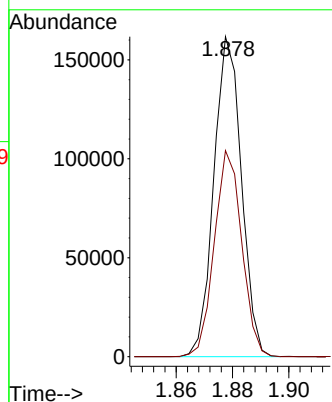
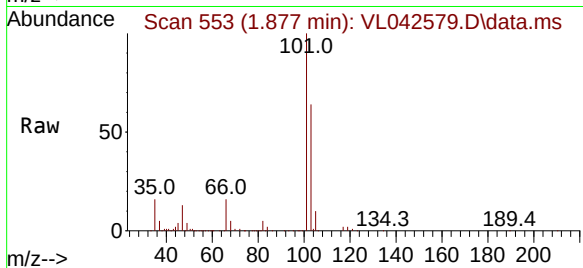




#11
 Trichlorofluoromethane
 Concen: 9.363 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

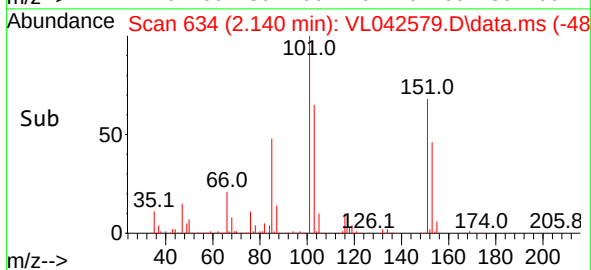
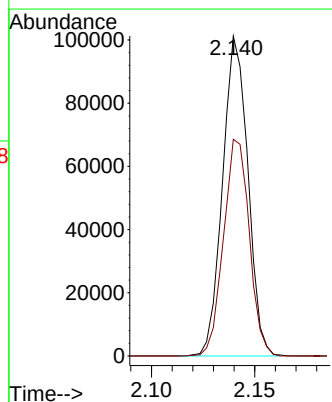
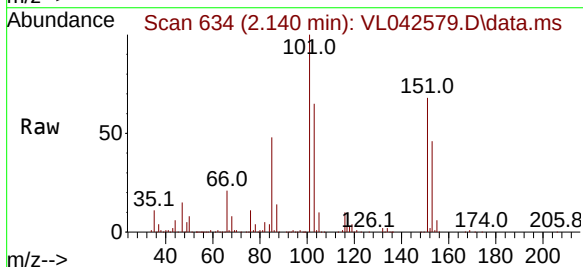
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

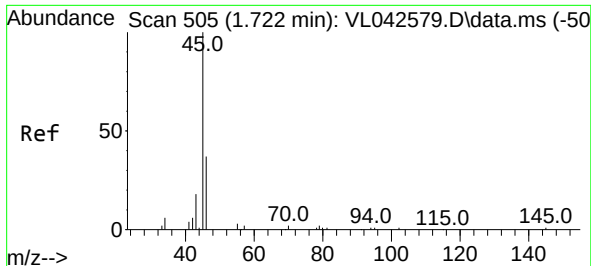
Tgt Ion:101 Resp: 110055
 Ion Ratio Lower Upper
 101 100
 103 64.4 51.5 77.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.330 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

Tgt Ion:101 Resp: 86117
 Ion Ratio Lower Upper
 101 100
 151 69.1 55.3 82.9

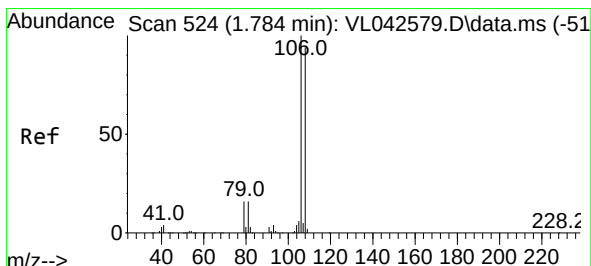
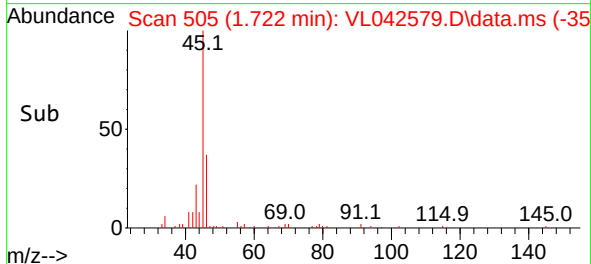
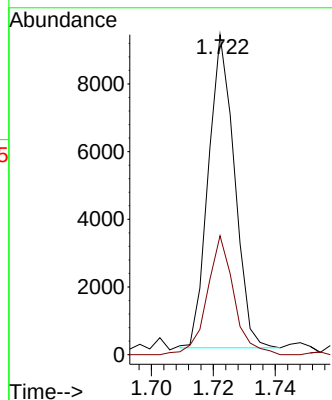
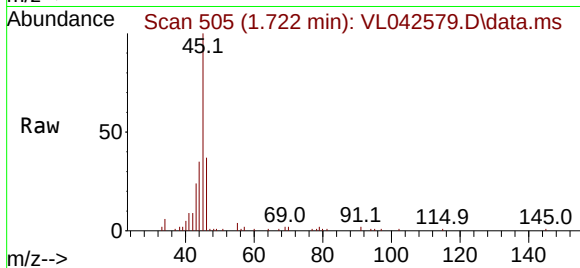




#13
Ethanol
Concen: 6.909 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

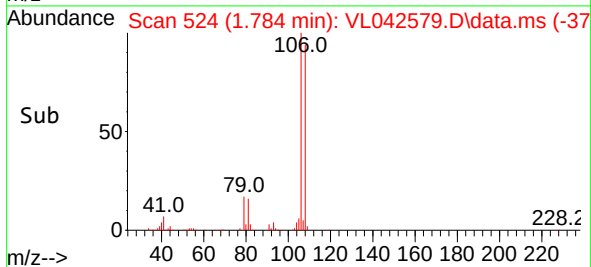
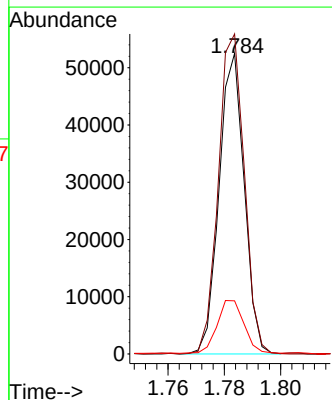
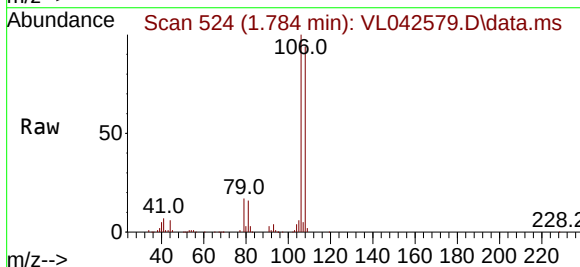
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

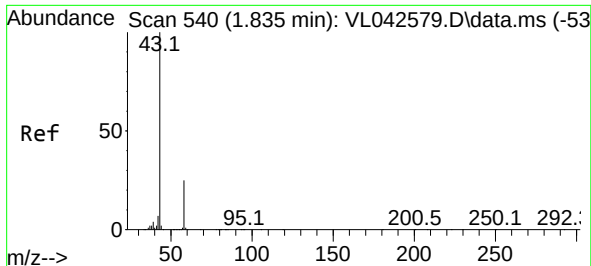
Tgt Ion: 45 Resp: 5404
Ion Ratio Lower Upper
45 100
46 39.2 14.5 58.1



#14
Bromoethene
Concen: 9.386 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion:108 Resp: 32588
Ion Ratio Lower Upper
108 100
106 109.9 87.9 131.9
79 19.5 15.6 23.4

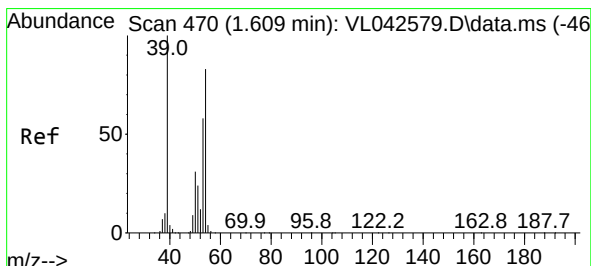
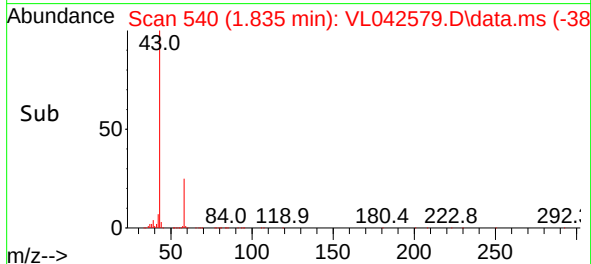
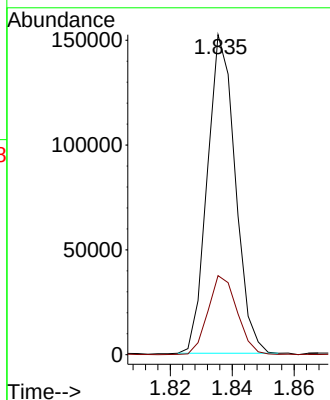
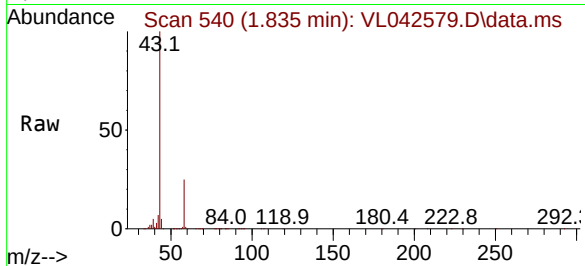




#15
Acetone
Concen: 7.708 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

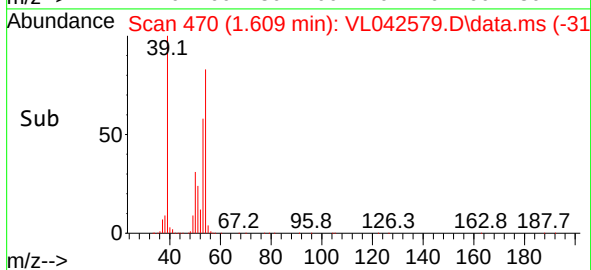
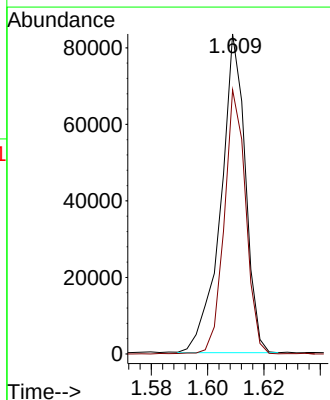
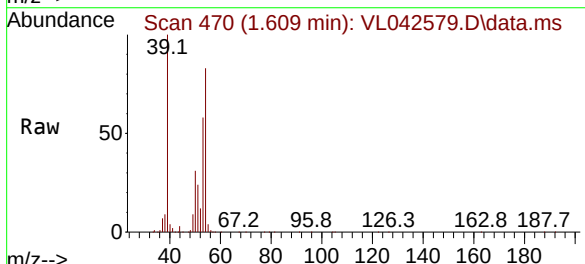
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

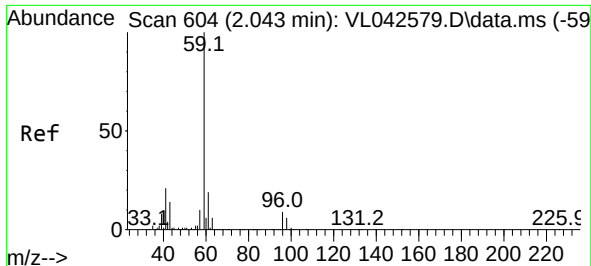
Tgt Ion: 43 Resp: 95441
Ion Ratio Lower Upper
43 100
58 26.2 21.0 31.4



#16
1,3-Butadiene
Concen: 8.607 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion: 39 Resp: 50485
Ion Ratio Lower Upper
39 100
54 72.4 57.9 86.9





#17

tert-Butyl alcohol

Concen: 9.858 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_1

ClientSampleId :

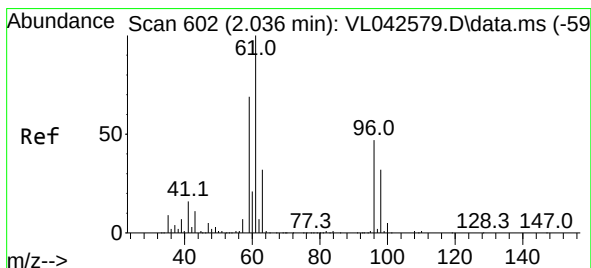
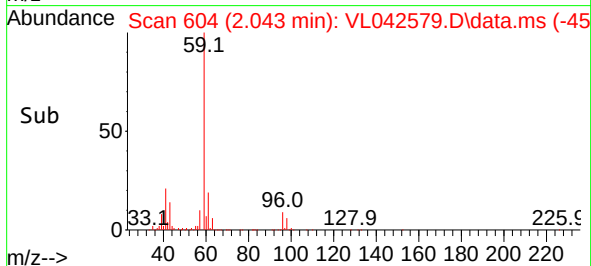
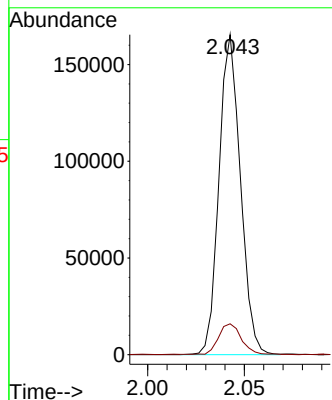
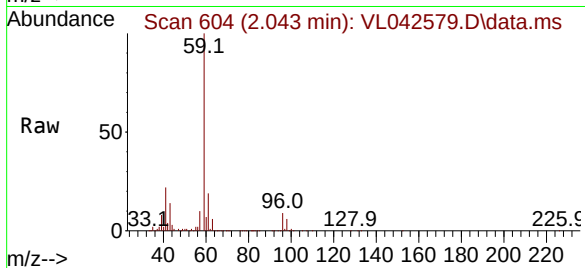
VSTDICCC010

Tgt Ion: 59 Resp: 127162

Ion Ratio Lower Upper

59 100

57 10.7 8.6 12.8



#18

1,1-Dichloroethene

Concen: 9.026 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

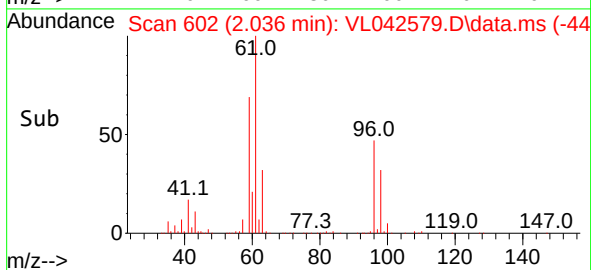
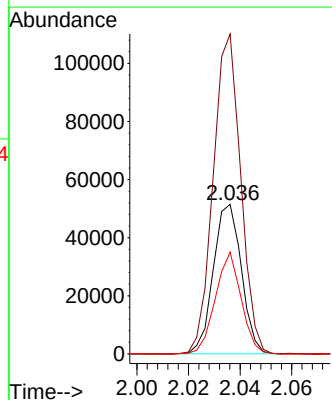
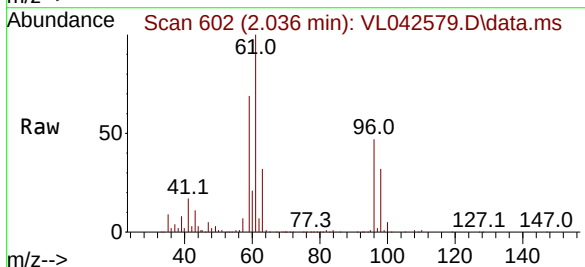
Tgt Ion: 96 Resp: 38765

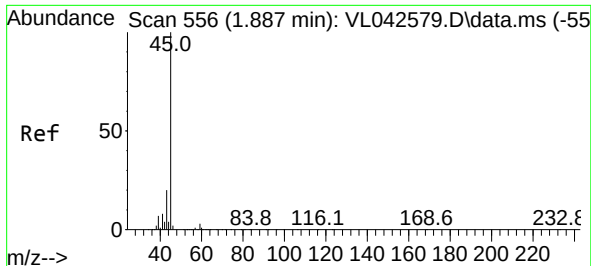
Ion Ratio Lower Upper

96 100

61 214.2 171.1 256.7

98 68.1 54.4 81.6





#19

Isopropyl Alcohol

Concen: 9.151 ppbv

RT: 1.887 min Scan# 51

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

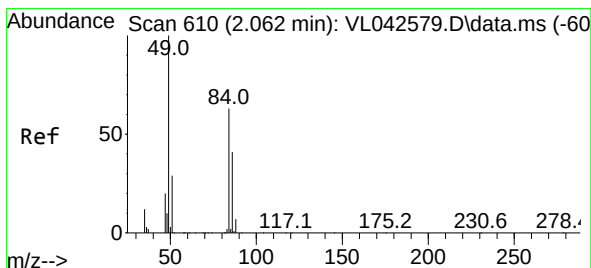
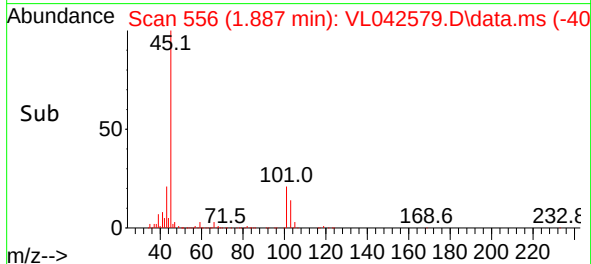
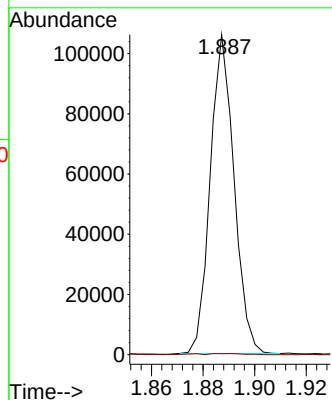
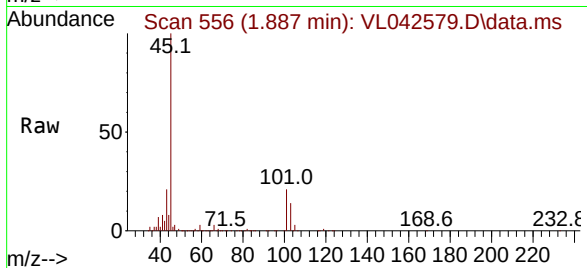
VSTDICCC010

Tgt Ion: 45 Resp: 67731

Ion Ratio Lower Upper

45 100

58 36.8 29.4 44.2



#20

Methylene Chloride

Concen: 8.209 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Tgt Ion: 84 Resp: 33544

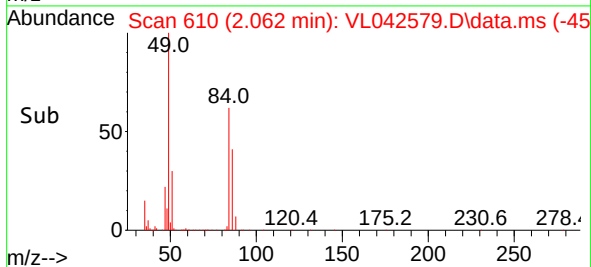
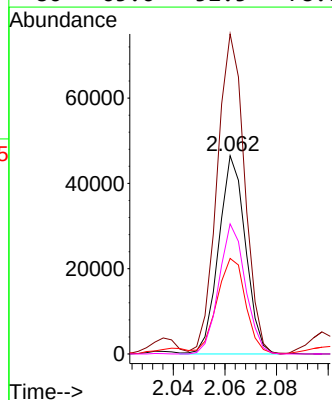
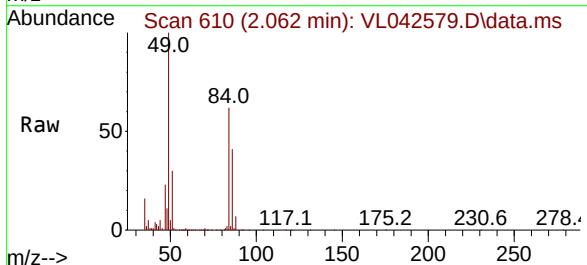
Ion Ratio Lower Upper

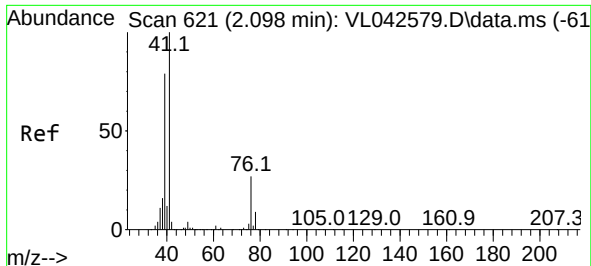
84 100

49 161.0 128.8 193.2

51 48.2 38.6 57.8

86 65.6 52.5 78.7

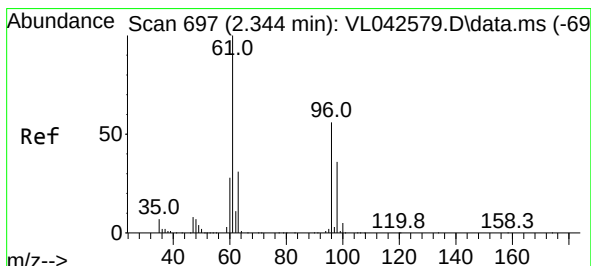
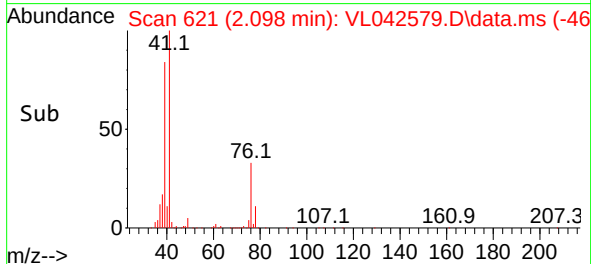
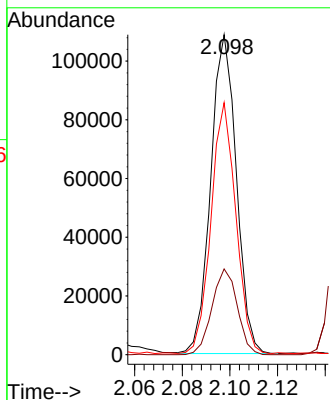
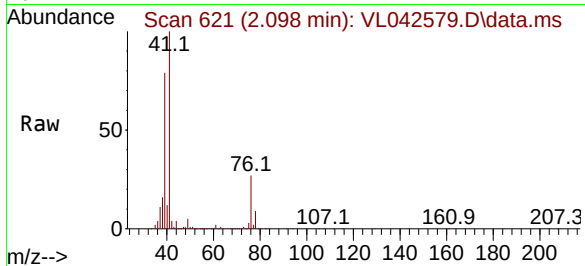




#21
 Allyl Chloride
 Concen: 9.289 ppbv
 RT: 2.098 min Scan# 611
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

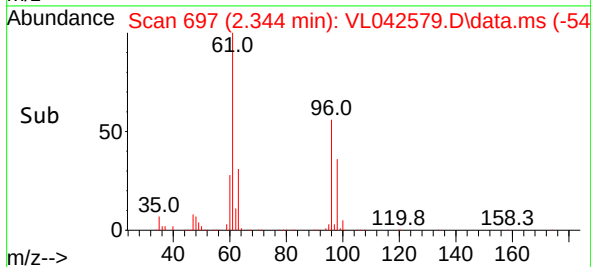
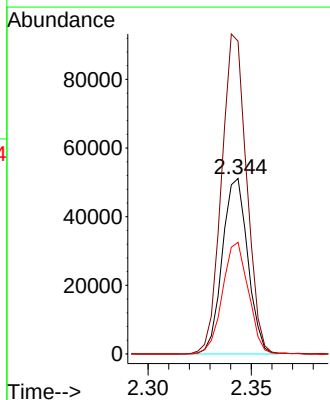
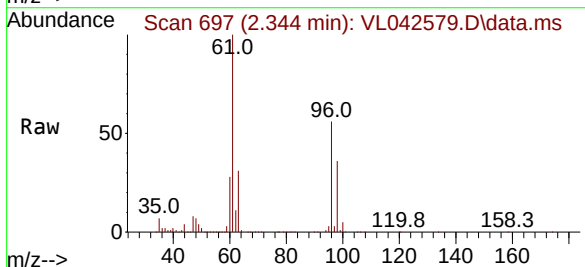
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

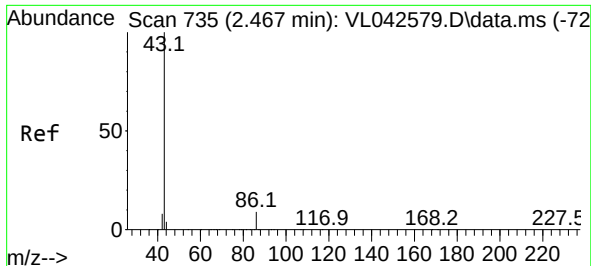
Tgt Ion: 41 Resp: 81153
 Ion Ratio Lower Upper
 41 100
 76 26.5 21.2 31.8
 39 76.1 60.9 91.3



#22
 trans-1,2-Dichloroethene
 Concen: 9.165 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

Tgt Ion: 96 Resp: 43936
 Ion Ratio Lower Upper
 96 100
 61 178.3 142.6 214.0
 98 63.7 51.0 76.4

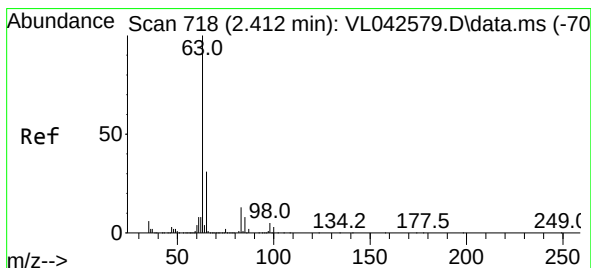
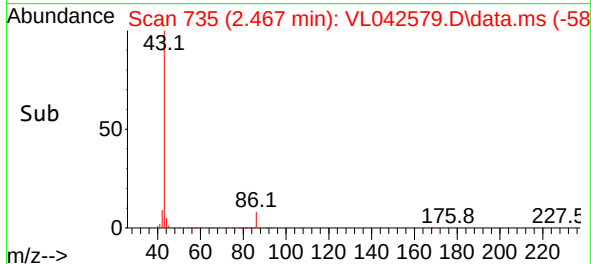
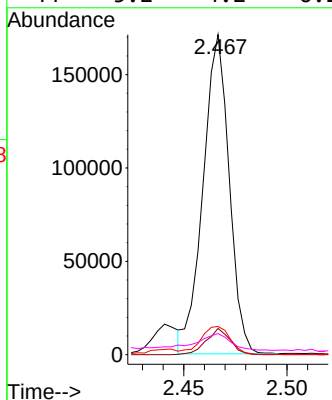
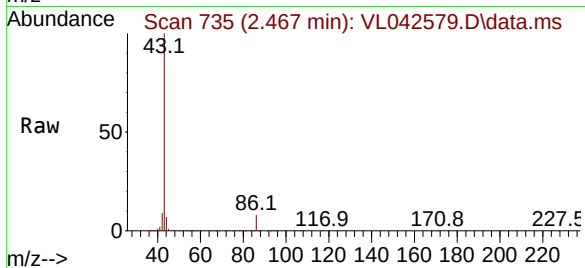




#23
 Vinyl Acetate
 Concen: 8.954 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

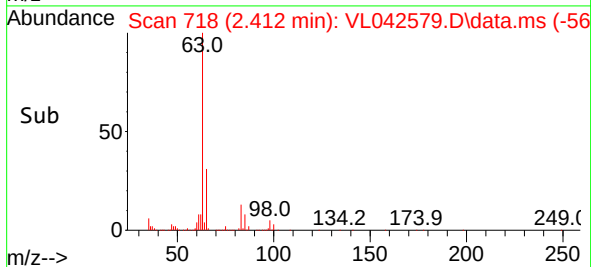
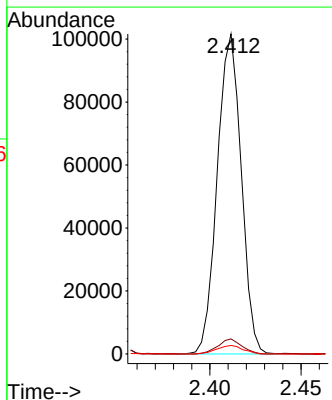
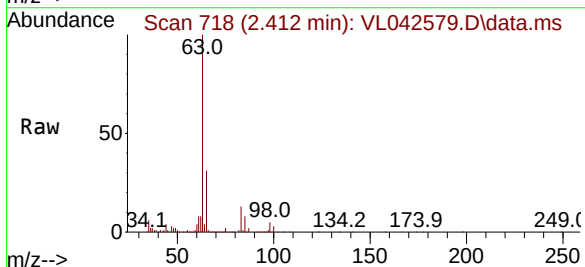
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

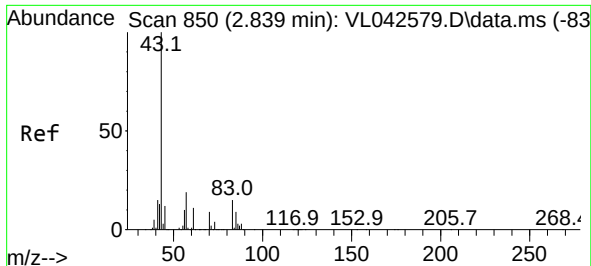
Tgt Ion:	43	Resp:	149858
Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8
42	8.7	7.0	10.4
44	5.2	4.2	6.2



#24
 1,1-Dichloroethane
 Concen: 9.442 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

Tgt Ion:	63	Resp:	92836
Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.4	7.1
100	2.7	1.4	4.0

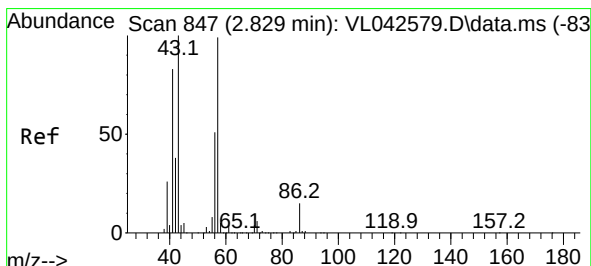
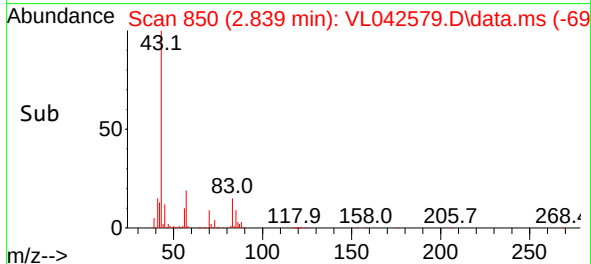
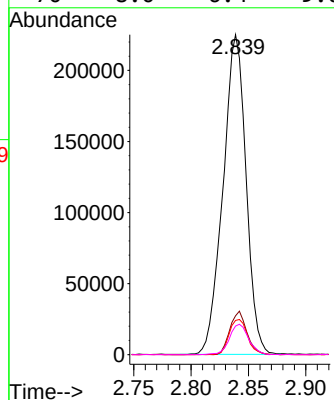
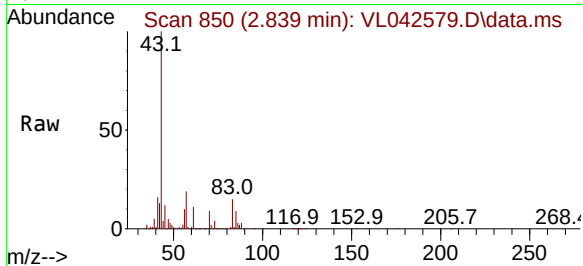




#25
Ethyl Acetate
Concen: 9.264 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

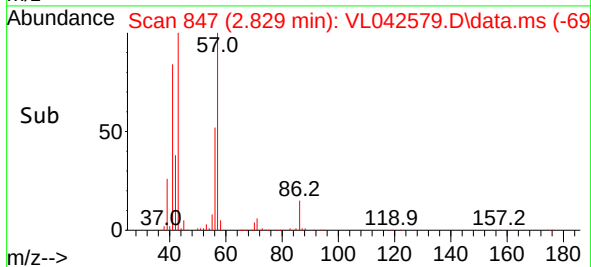
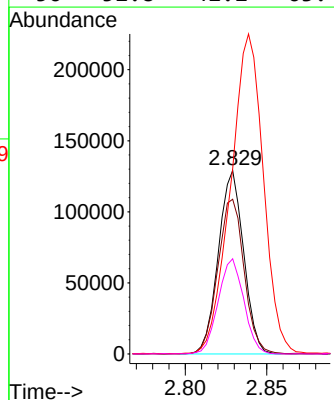
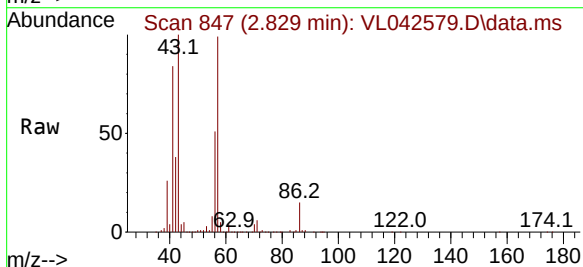
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

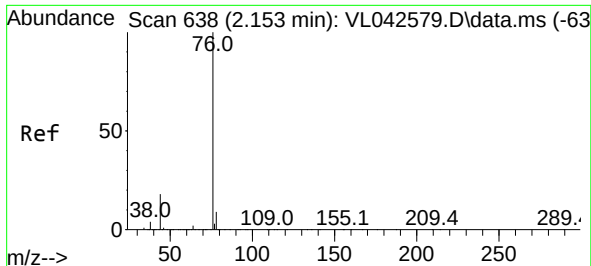
Tgt Ion:	43	Resp:	313915
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.2
61	8.9	7.1	10.7
70	8.0	6.4	9.6



#26
Hexane
Concen: 9.013 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion:	57	Resp:	138771
Ion	Ratio	Lower	Upper
57	100		
41	88.3	70.6	106.0
43	226.4	181.1	271.7
56	52.8	42.2	63.4

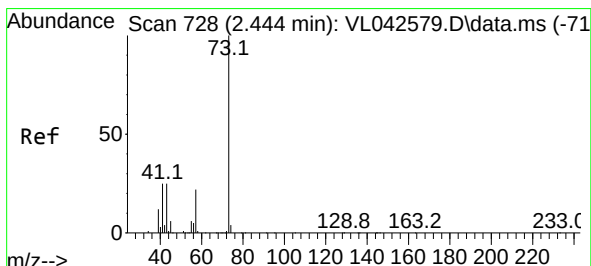
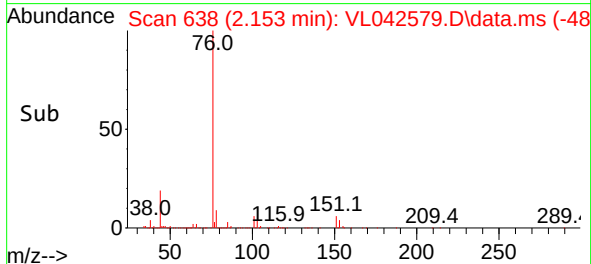
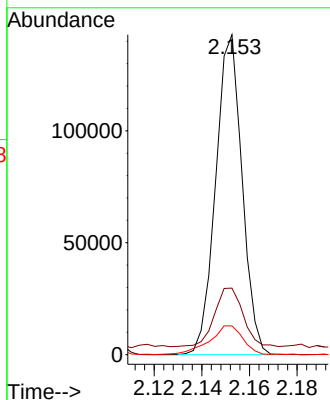
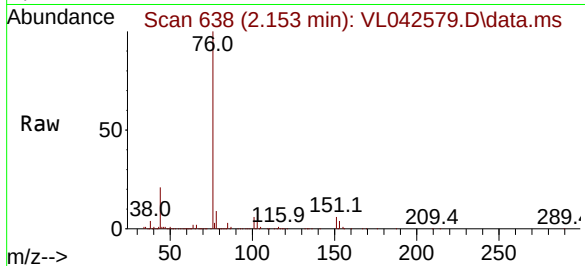




#27
Carbon Disulfide
Concen: 9.298 ppbv
RT: 2.153 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

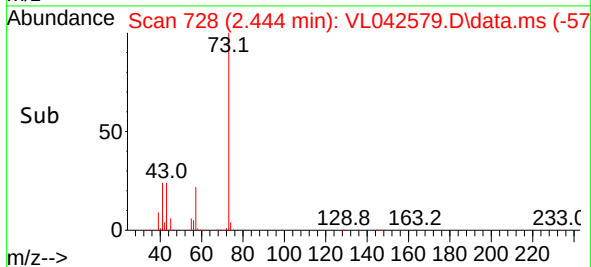
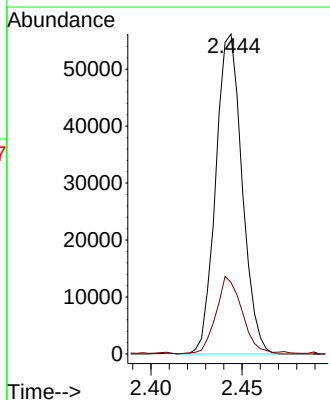
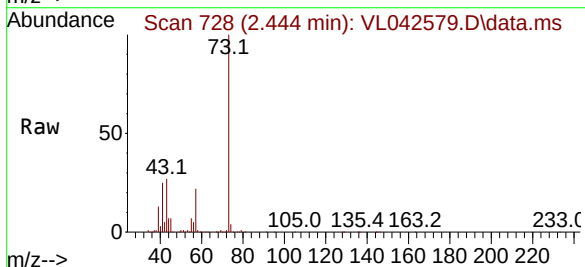
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

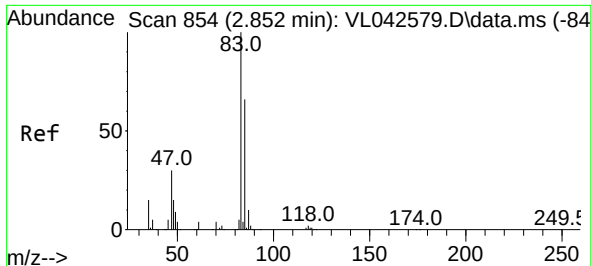
Tgt Ion: 76 Resp: 109904
Ion Ratio Lower Upper
76 100
44 26.6 21.3 31.9
78 11.7 9.4 14.0



#28
Methyl tert-Butyl Ether
Concen: 9.045 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion: 73 Resp: 56510
Ion Ratio Lower Upper
73 100
57 24.9 19.9 29.9





#29

Chloroform

Concen: 9.013 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

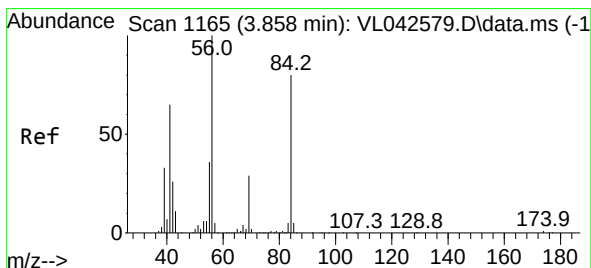
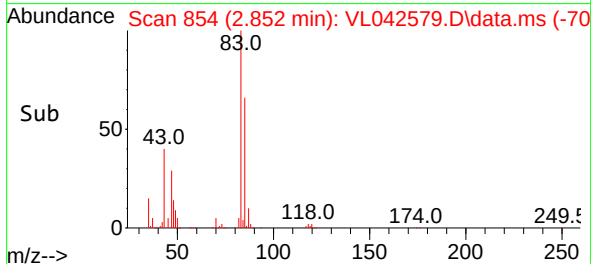
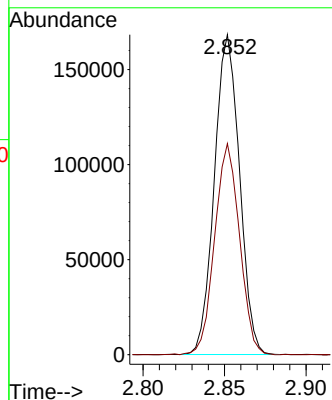
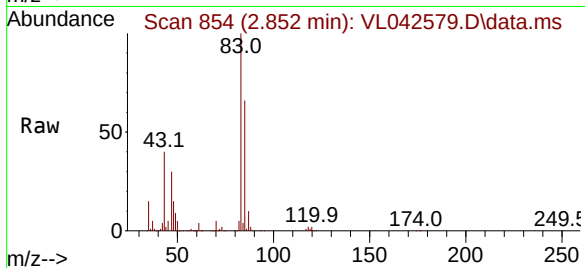
VSTDICCC010

Tgt Ion: 83 Resp: 180449

Ion Ratio Lower Upper

83 100

85 66.0 52.8 79.2



#30

Cyclohexane

Concen: 9.232 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

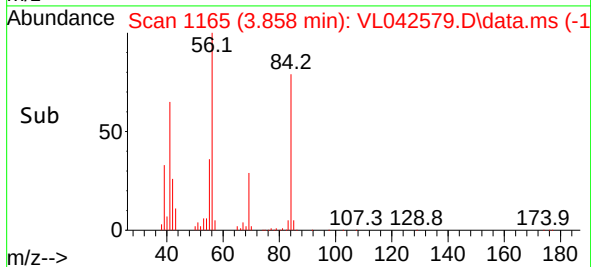
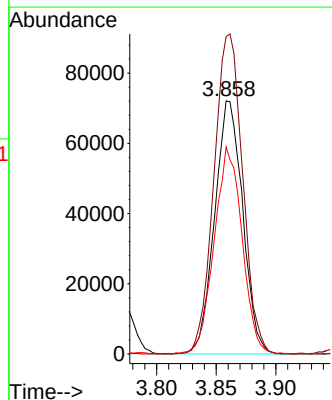
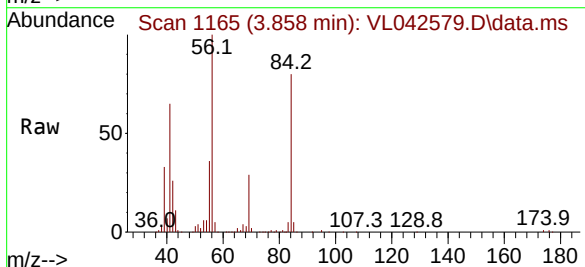
Tgt Ion: 84 Resp: 117833

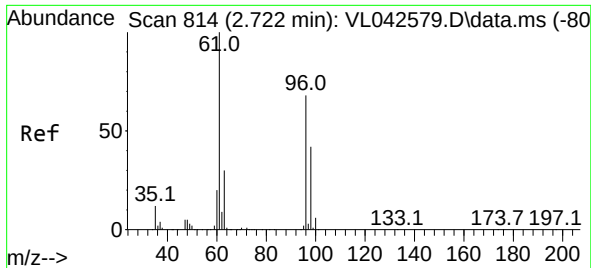
Ion Ratio Lower Upper

84 100

56 129.7 103.7 155.5

41 81.2 65.1 97.7

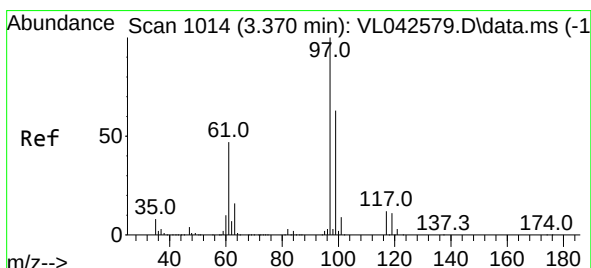
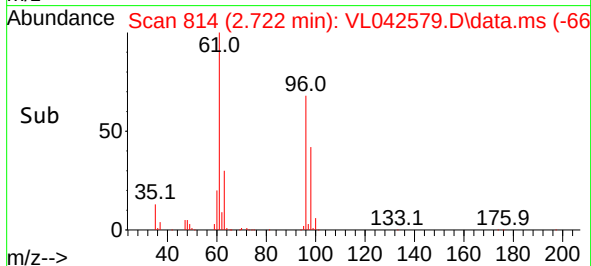
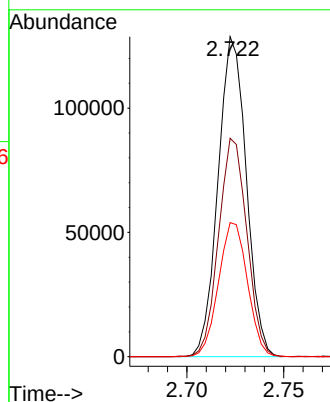
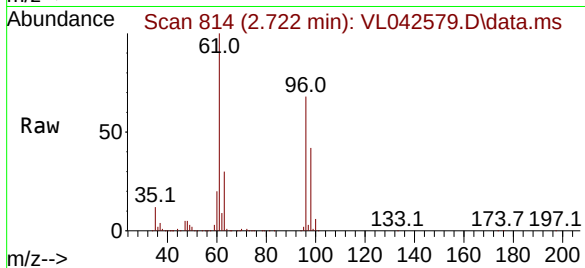




#31
 cis-1,2-Dichloroethene
 Concen: 9.274 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

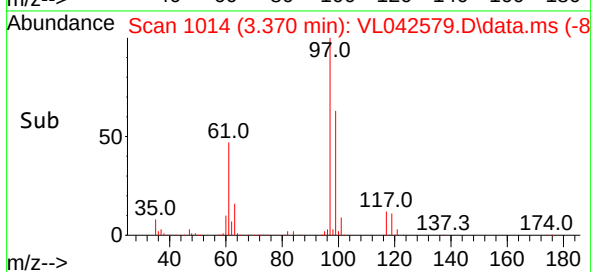
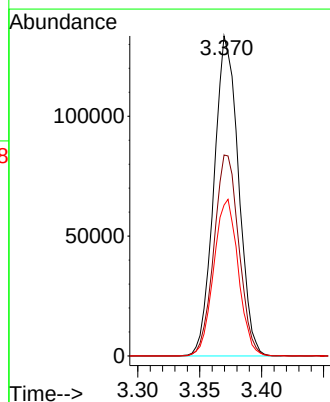
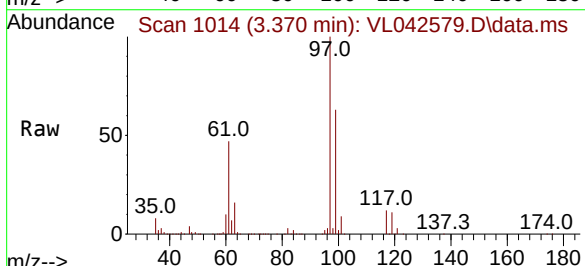
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

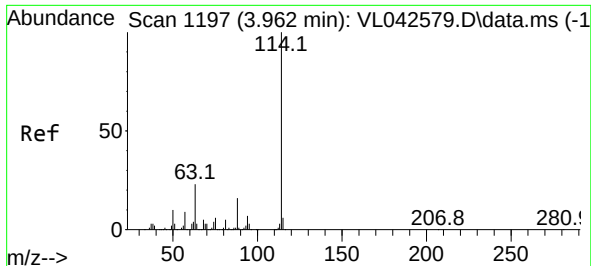
Tgt Ion: 61 Resp: 130618
 Ion Ratio Lower Upper
 61 100
 96 68.1 54.5 81.7
 98 41.8 33.4 50.2



#32
 1,1,1-Trichloroethane
 Concen: 9.177 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

Tgt Ion: 97 Resp: 184372
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.0 76.6
 61 49.2 39.4 59.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

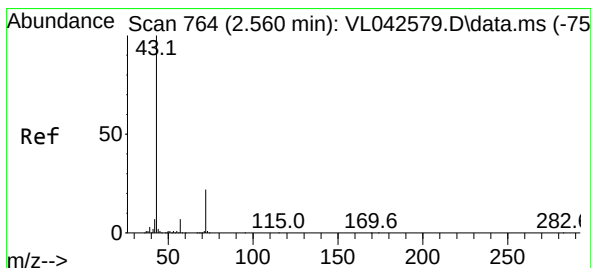
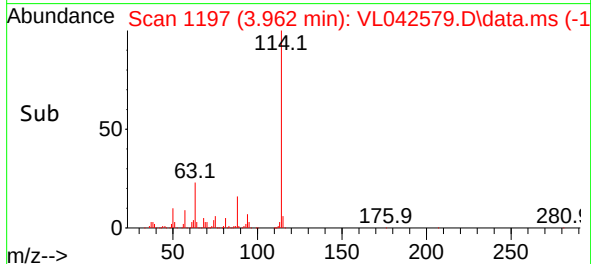
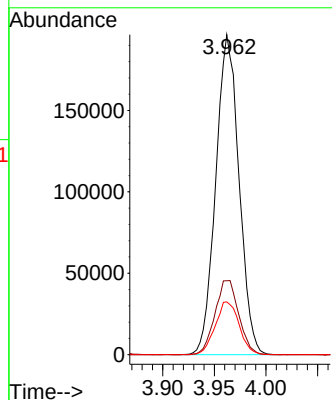
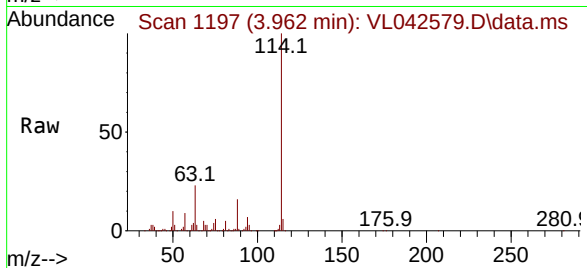
Tgt Ion:114 Resp: 307854

Ion Ratio Lower Upper

114 100

63 23.8 19.0 28.6

88 17.0 13.6 20.4



#34

2-Butanone

Concen: 9.192 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.000 min

Lab File: VL042579.D

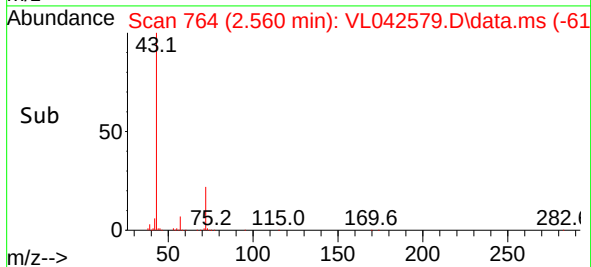
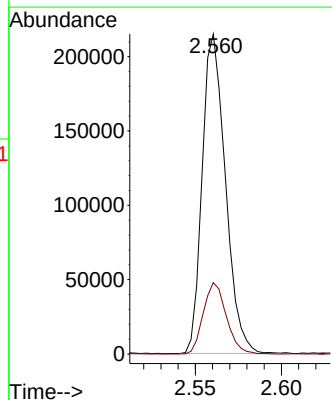
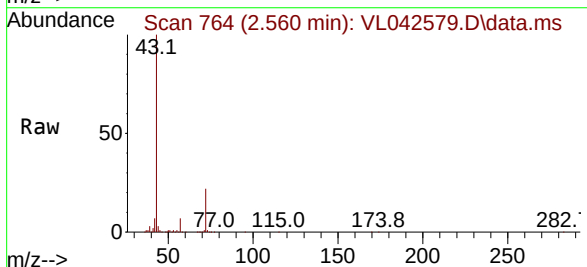
Acq: 29 May 2025 11:09

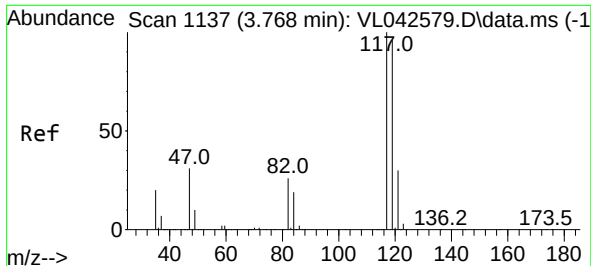
Tgt Ion: 43 Resp: 201796

Ion Ratio Lower Upper

43 100

72 22.1 17.7 26.5

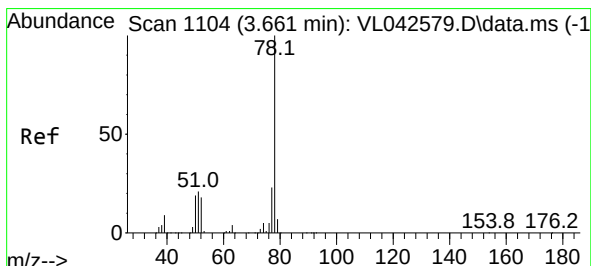
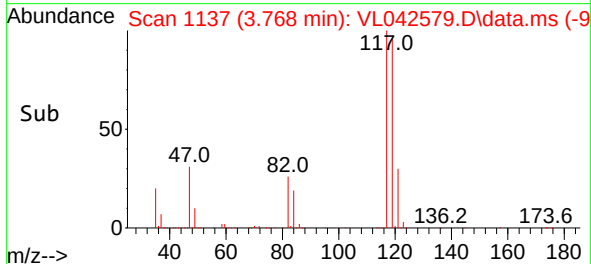
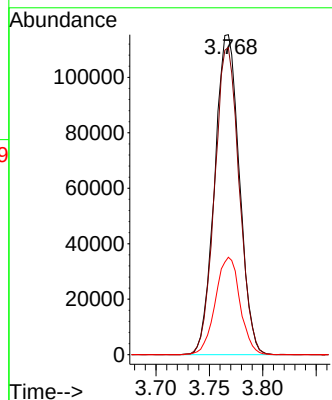
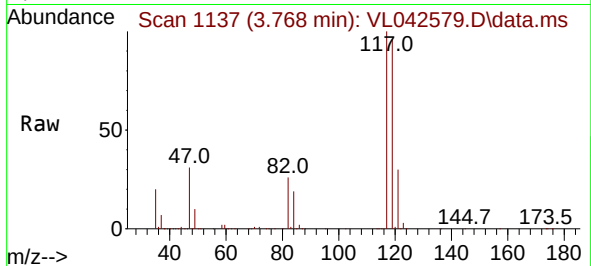




#35
Carbon Tetrachloride
Concen: 9.132 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

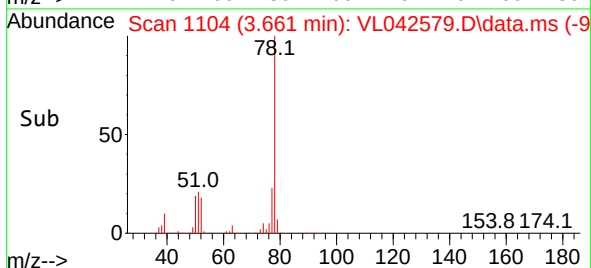
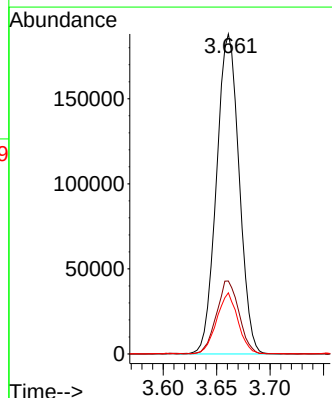
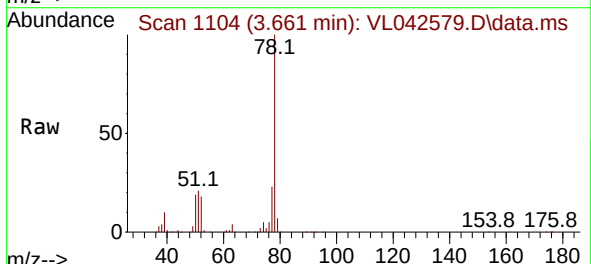
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

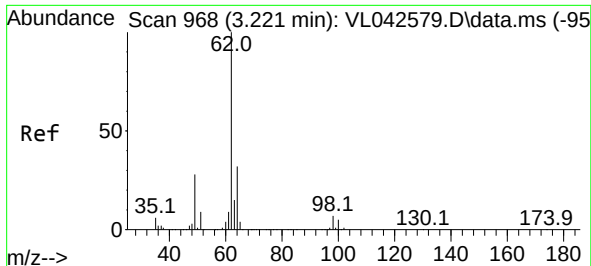
Tgt Ion:117 Resp: 185629
Ion Ratio Lower Upper
117 100
119 96.0 76.8 115.2
121 30.4 24.3 36.5



#36
Benzene
Concen: 9.142 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion: 78 Resp: 277132
Ion Ratio Lower Upper
78 100
77 22.7 18.2 27.2
50 19.0 15.2 22.8





#37

1,2-Dichloroethane

Concen: 9.153 ppbv

RT: 3.221 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_1

ClientSampleId :

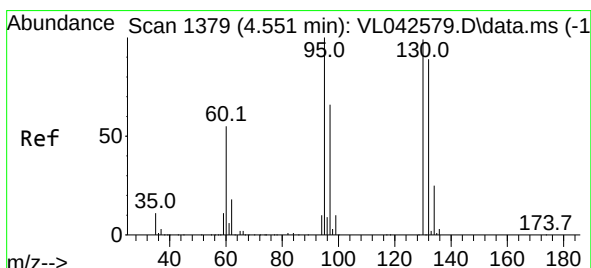
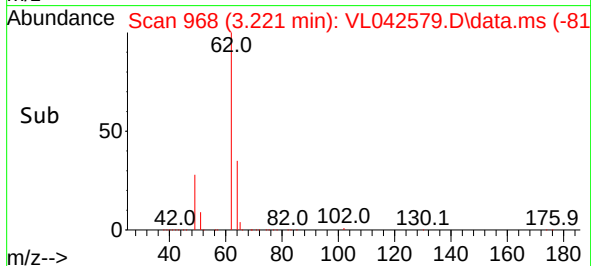
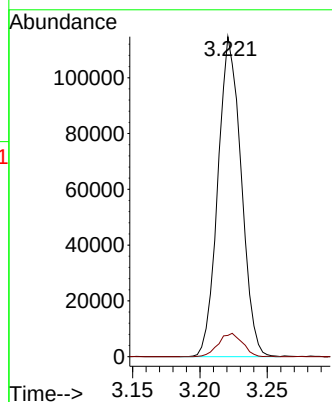
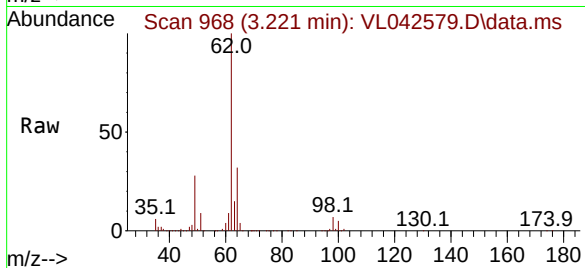
VSTDICCC010

Tgt Ion: 62 Resp: 137914

Ion Ratio Lower Upper

62 100

98 7.6 6.1 9.1



#38

Trichloroethene

Concen: 8.916 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Tgt Ion:130 Resp: 115772

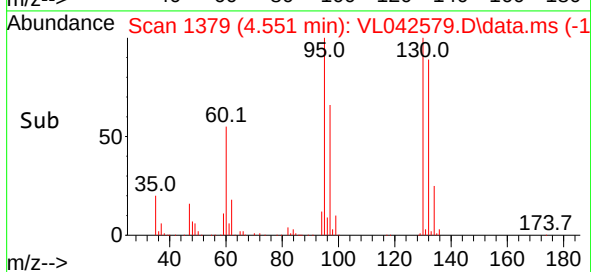
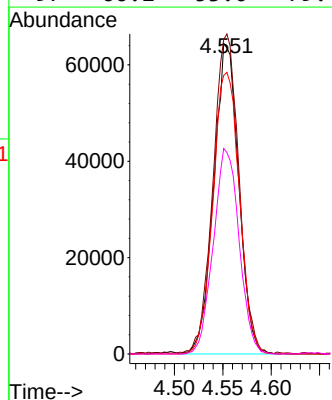
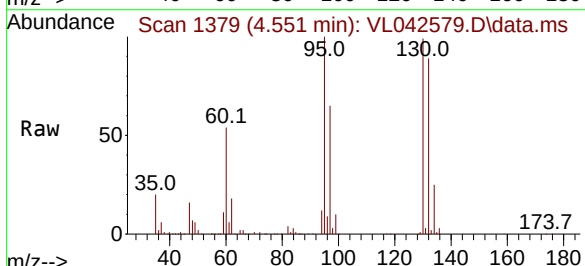
Ion Ratio Lower Upper

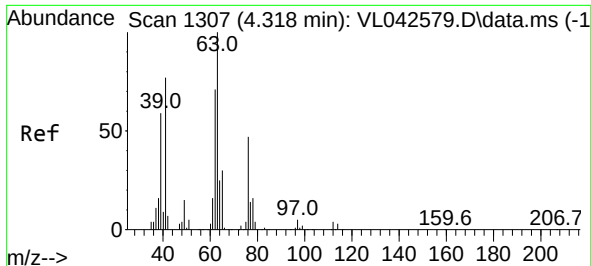
130 100

95 100.8 80.6 121.0

132 89.7 71.8 107.6

97 66.2 53.0 79.4





#39

1,2-Dichloropropane

Concen: 9.029 ppbv

RT: 4.318 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

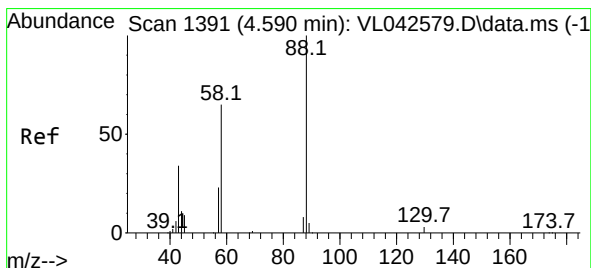
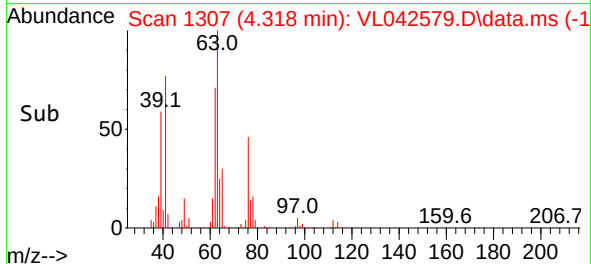
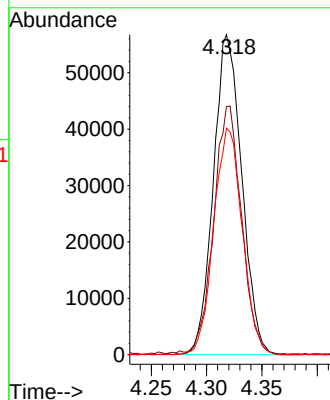
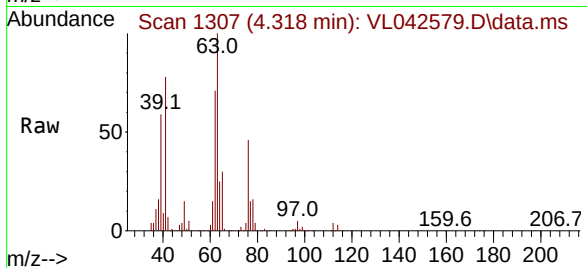
Tgt Ion: 63 Resp: 101185

Ion Ratio Lower Upper

63 100

41 77.2 61.8 92.6

62 70.8 56.6 85.0



#40

1,4-Dioxane

Concen: 9.797 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Tgt Ion: 88 Resp: 46671

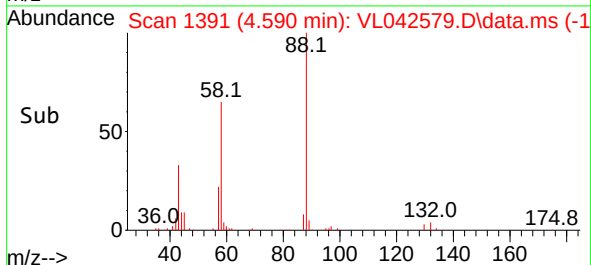
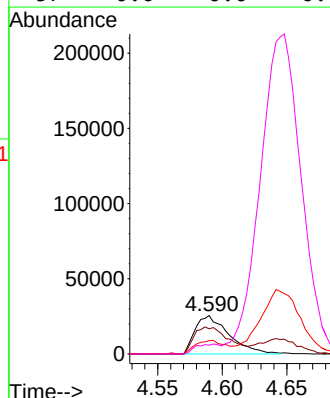
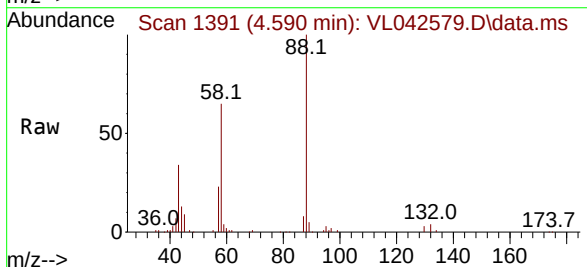
Ion Ratio Lower Upper

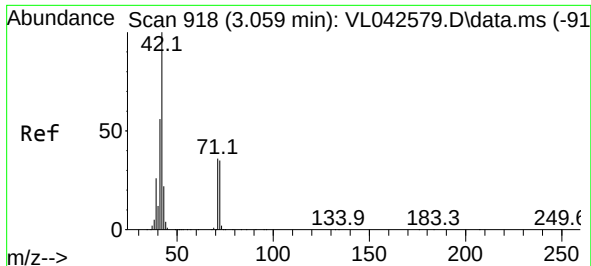
88 100

58 69.8 55.8 83.8

43 31.0 24.8 37.2

57 0.0 0.0 0.0

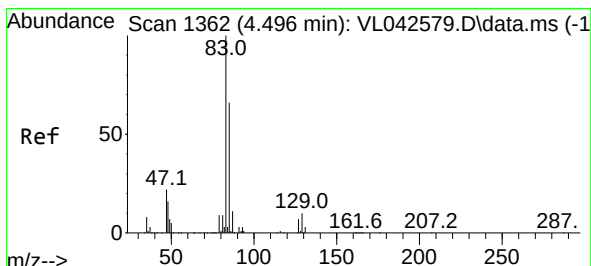
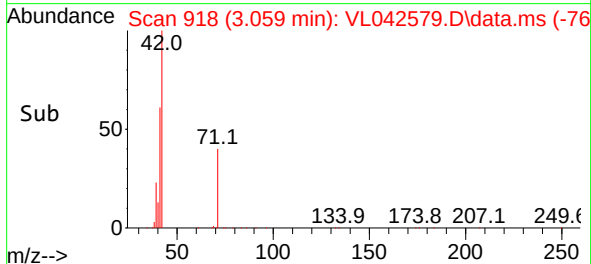
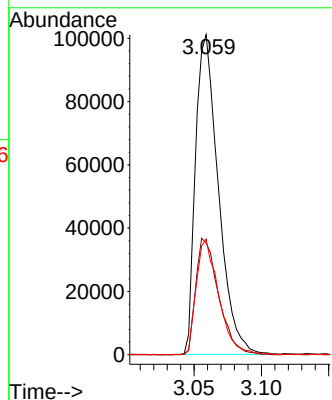
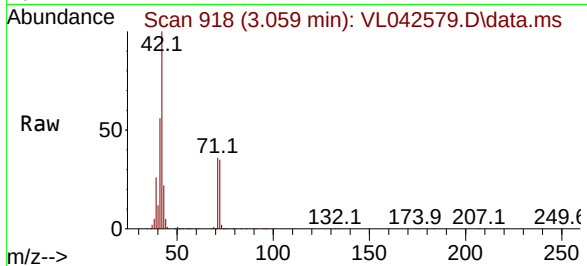




#41
Tetrahydrofuran
Concen: 9.301 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

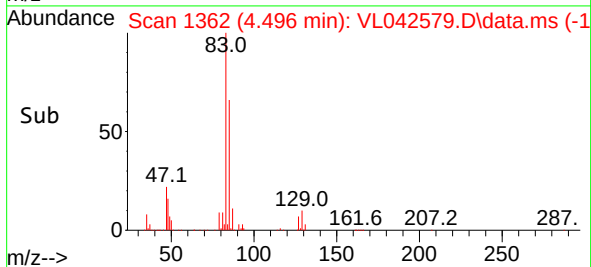
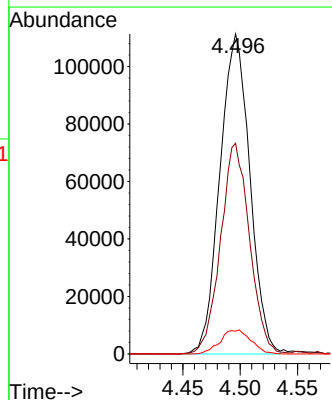
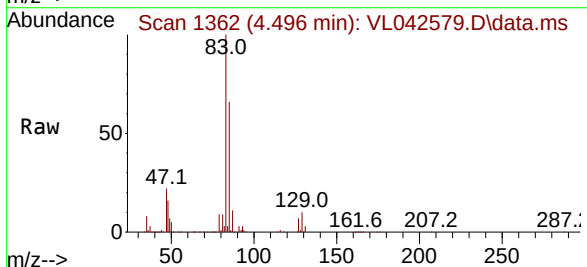
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

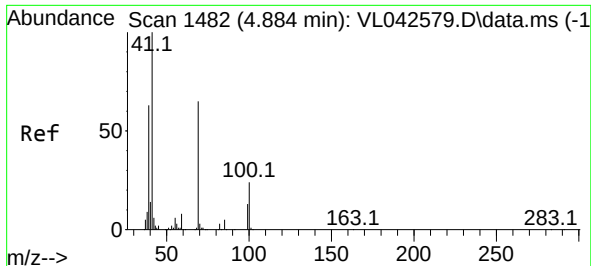
Tgt Ion: 42 Resp: 119530
Ion Ratio Lower Upper
42 100
72 36.2 28.9 43.3
71 35.5 28.5 42.7



#42
Bromodichloromethane
Concen: 9.441 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion: 83 Resp: 202026
Ion Ratio Lower Upper
83 100
85 65.9 52.7 79.1
127 7.2 5.8 8.6

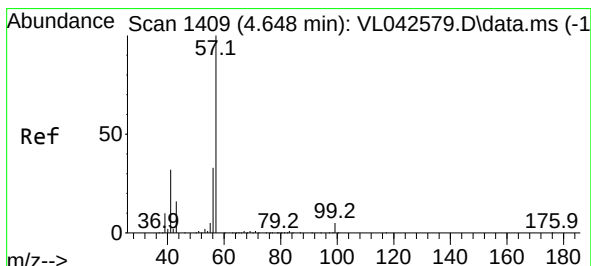
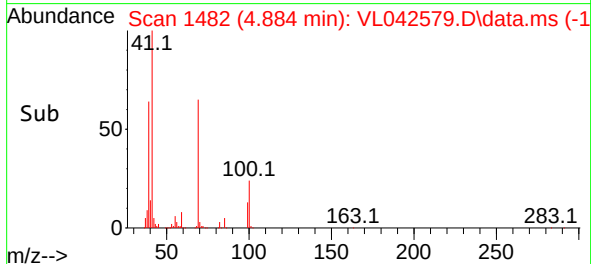
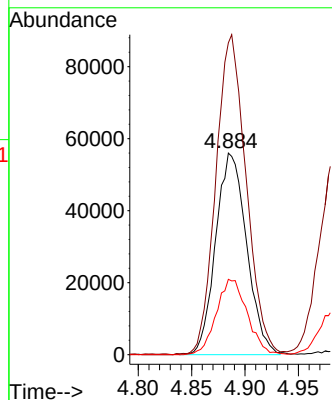
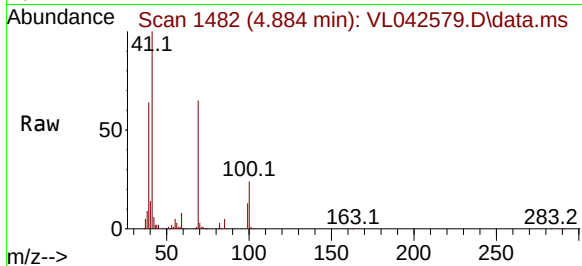




#43
Methyl Methacrylate
Concen: 9.595 ppbv
RT: 4.884 min Scan# 1482
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

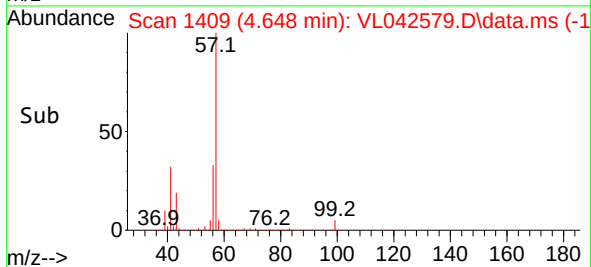
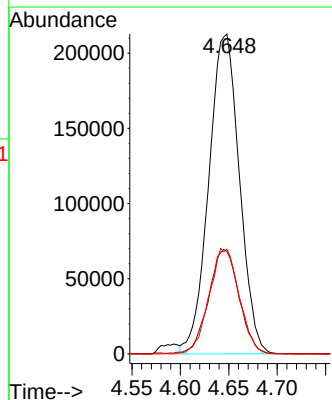
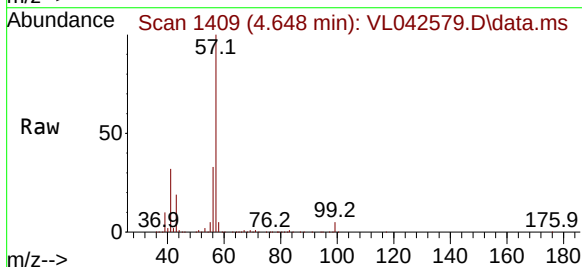
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

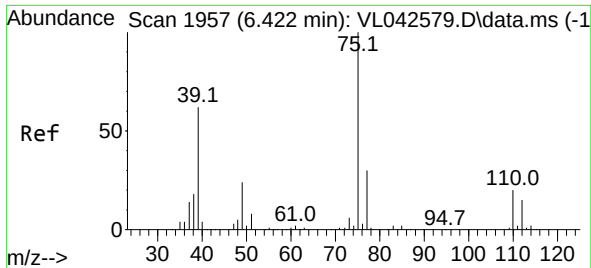
Tgt Ion: 69 Resp: 112746
Ion Ratio Lower Upper
69 100
41 155.4 124.6 187.0
100 37.3 29.9 44.9



#44
2,2,4-Trimethylpentane
Concen: 9.043 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion: 57 Resp: 468572
Ion Ratio Lower Upper
57 100
41 32.6 26.1 39.1
56 32.4 25.9 38.9

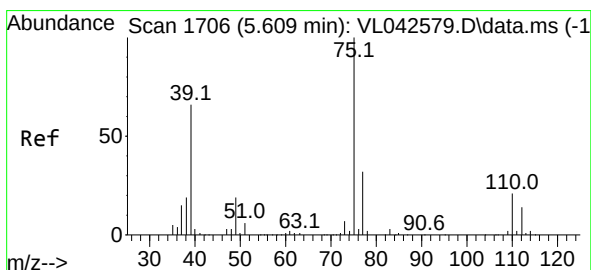
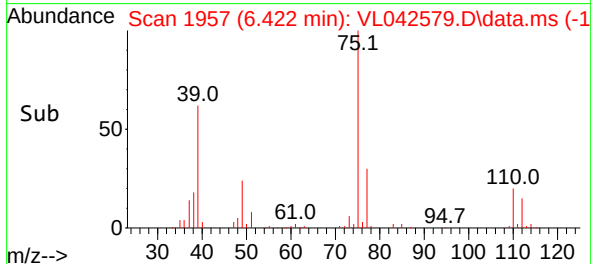
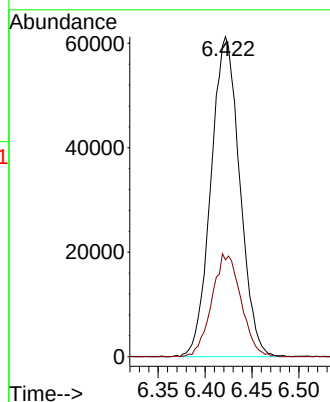
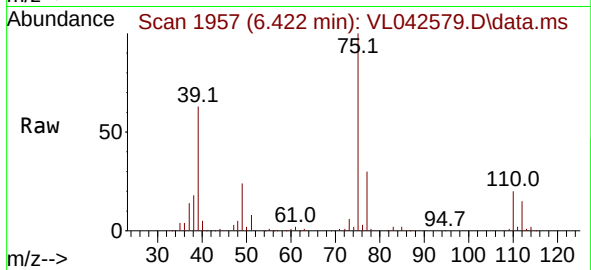




#45
 t-1,3-Dichloropropene
 Concen: 9.700 ppbv
 RT: 6.422 min Scan# 1957
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

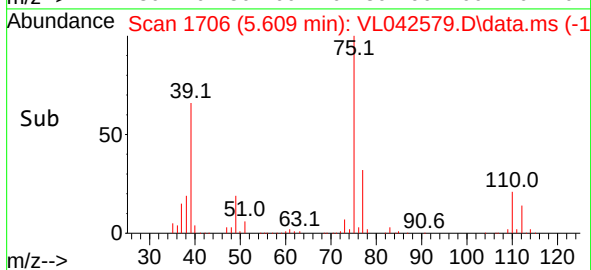
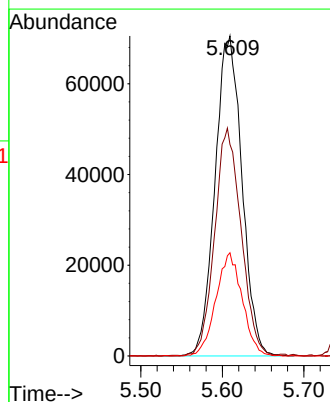
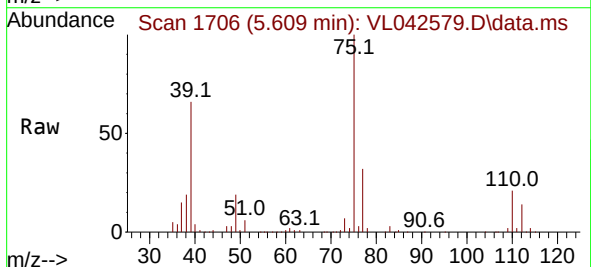
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

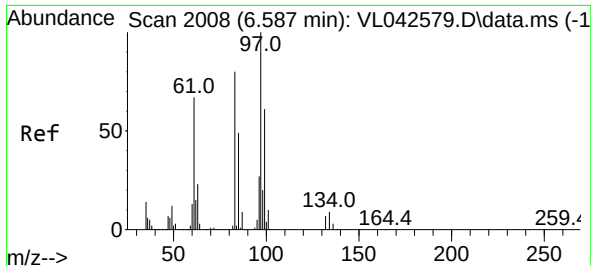
Tgt Ion: 75 Resp: 130611
 Ion Ratio Lower Upper
 75 100
 77 30.2 24.2 36.2



#46
 cis-1,3-Dichloropropene
 Concen: 9.614 ppbv
 RT: 5.609 min Scan# 1706
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

Tgt Ion: 75 Resp: 162155
 Ion Ratio Lower Upper
 75 100
 39 65.9 52.7 79.1
 77 32.3 25.8 38.8

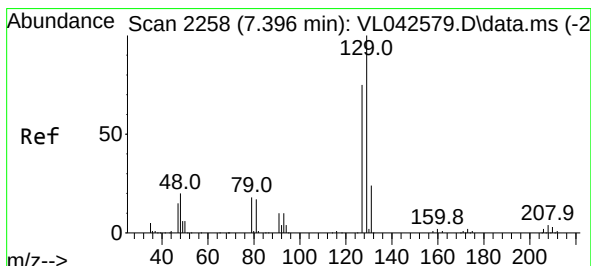
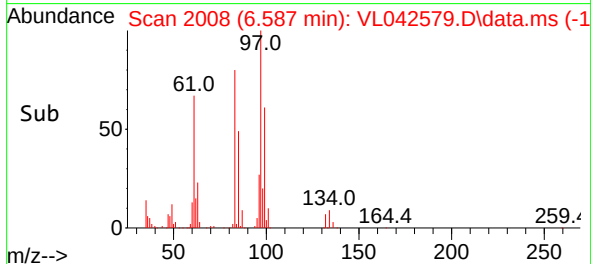
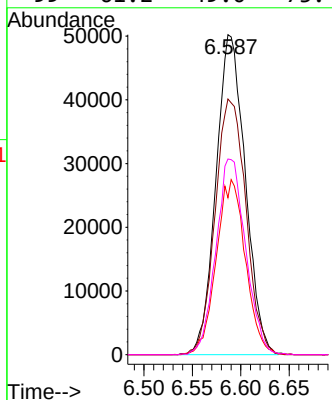
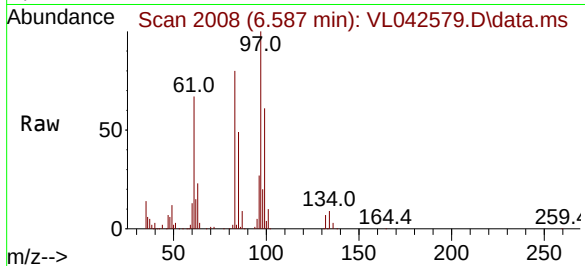




#47
 1,1,2-Trichloroethane
 Concen: 9.097 ppbv
 RT: 6.587 min Scan# 2008
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

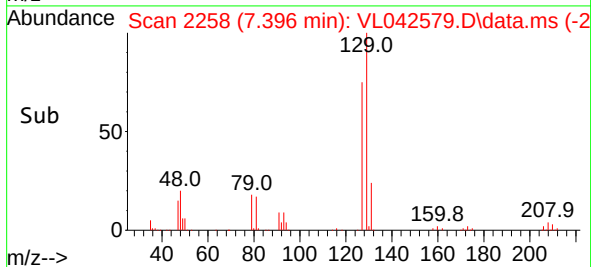
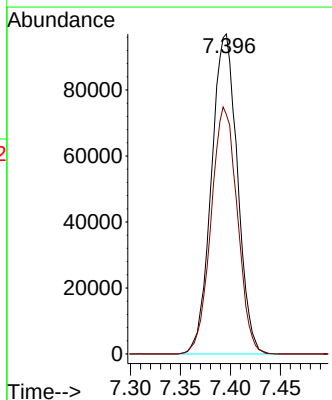
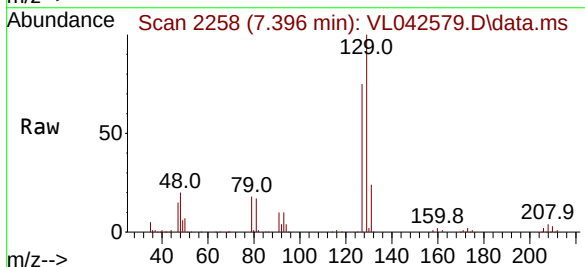
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

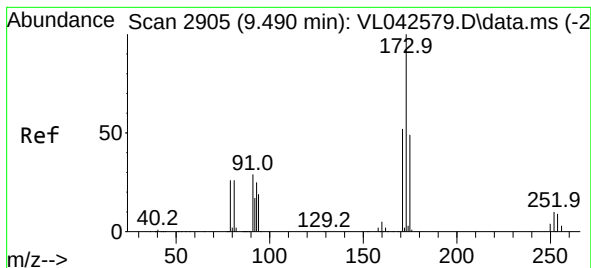
Tgt Ion:	97	Resp:	105576
Ion	Ratio	Lower	Upper
97	100		
83	79.9	63.9	95.9
85	49.0	39.2	58.8
99	61.2	49.0	73.4



#48
 Dibromochloromethane
 Concen: 9.450 ppbv
 RT: 7.396 min Scan# 2258
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

Tgt Ion:	129	Resp:	175572
Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.0	116.9





#49

Bromoform

Concen: 9.751 ppbv

RT: 9.490 min Scan# 2905

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

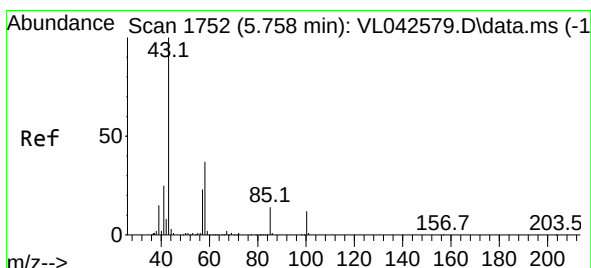
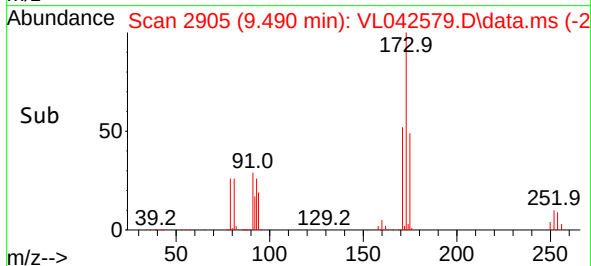
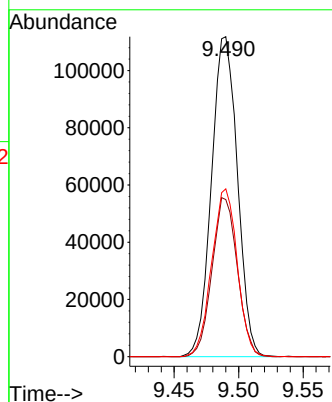
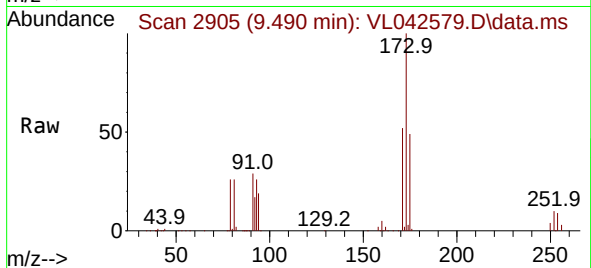
Tgt Ion:173 Resp: 156317

Ion Ratio Lower Upper

173 100

175 48.4 38.7 58.1

171 51.5 41.2 61.8



#50

4-Methyl-2-Pentanone

Concen: 9.643 ppbv

RT: 5.758 min Scan# 1752

Delta R.T. 0.000 min

Lab File: VL042579.D

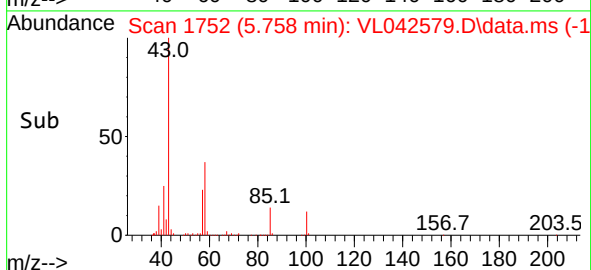
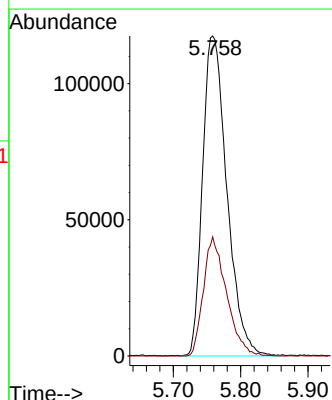
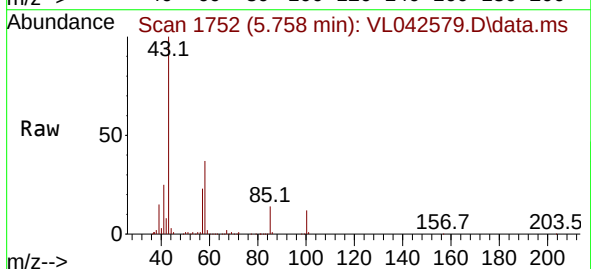
Acq: 29 May 2025 11:09

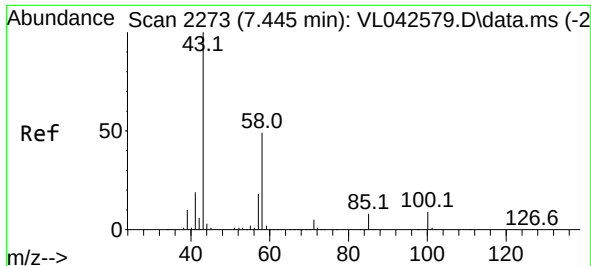
Tgt Ion: 43 Resp: 294836

Ion Ratio Lower Upper

43 100

58 35.4 28.3 42.5

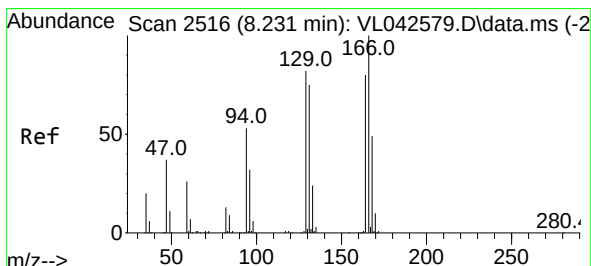
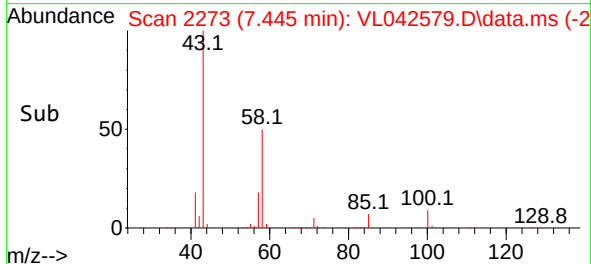
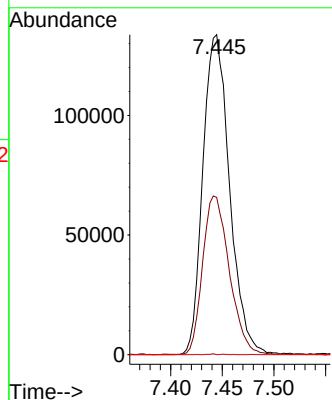
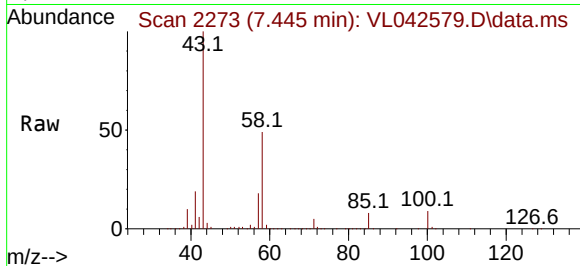




#51
2-Hexanone
Concen: 9.930 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

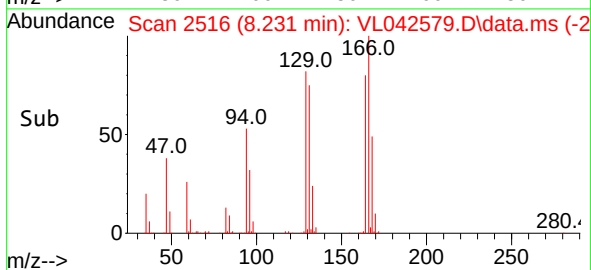
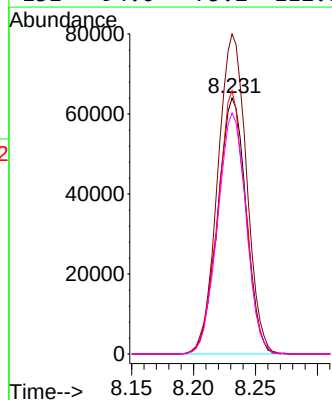
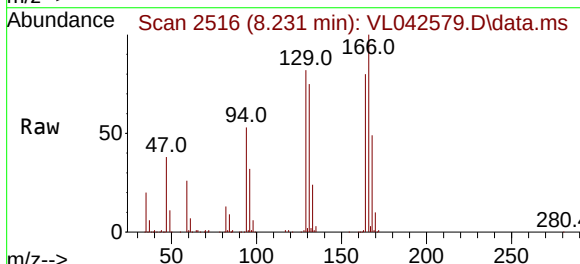
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

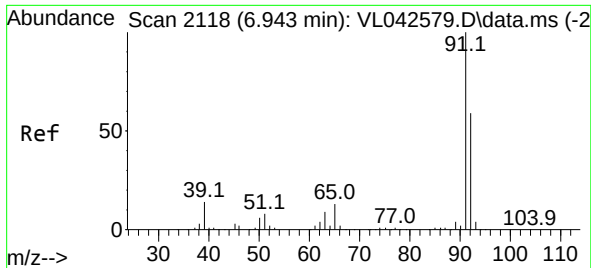
Tgt Ion: 43 Resp: 239826
Ion Ratio Lower Upper
43 100
58 49.9 39.9 59.9
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 9.038 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion:164 Resp: 102403
Ion Ratio Lower Upper
164 100
166 125.0 100.0 150.0
129 102.8 82.2 123.4
131 94.0 75.2 112.8

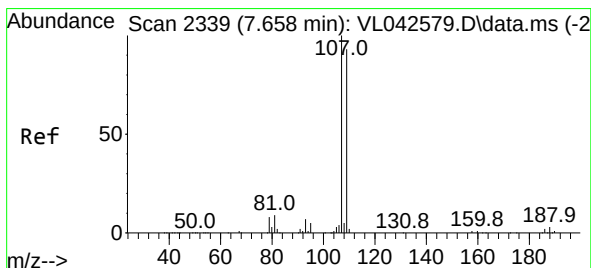
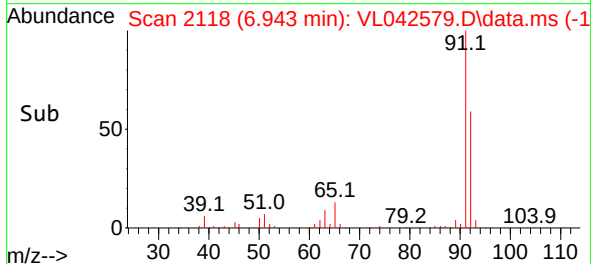
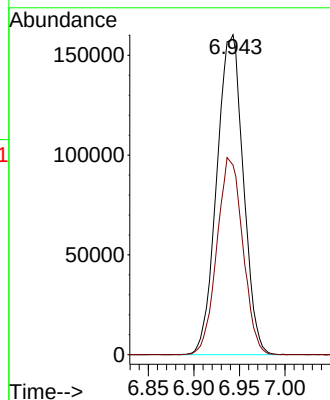
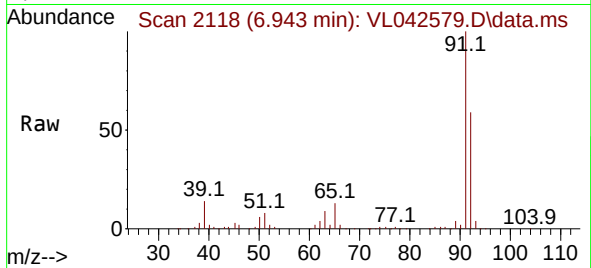




#53
Toluene
Concen: 9.264 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

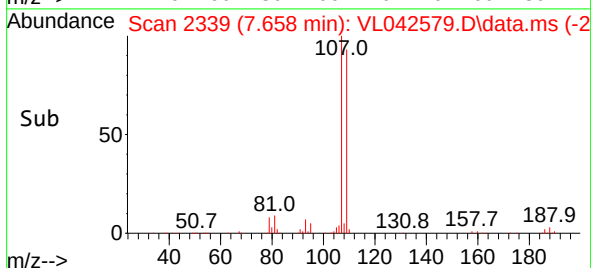
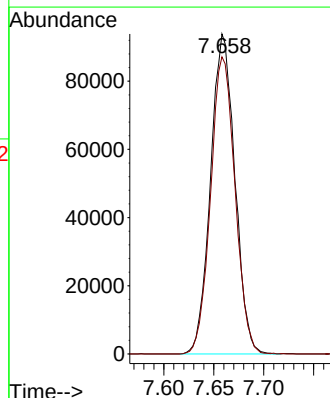
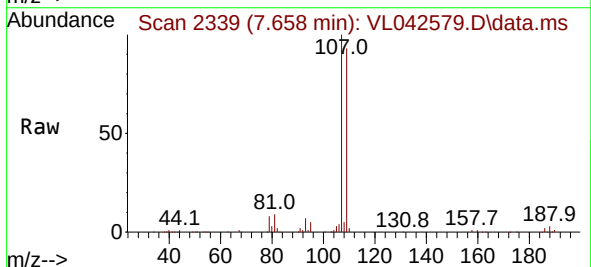
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

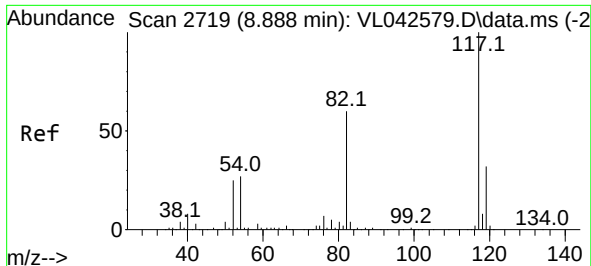
Tgt Ion: 91 Resp: 324605
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4



#54
1,2-Dibromoethane
Concen: 9.231 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion: 107 Resp: 158813
Ion Ratio Lower Upper
107 100
109 92.9 74.3 111.5

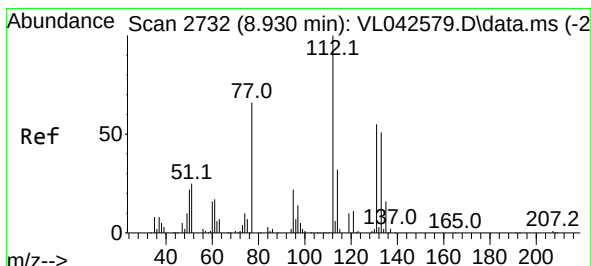
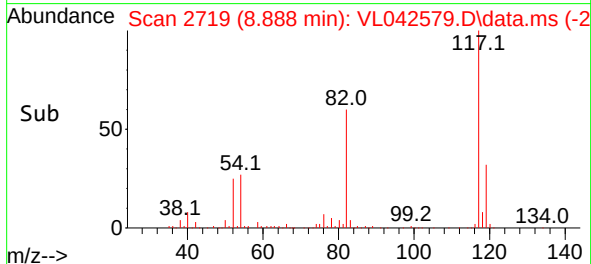
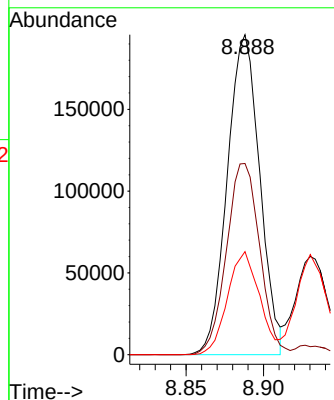
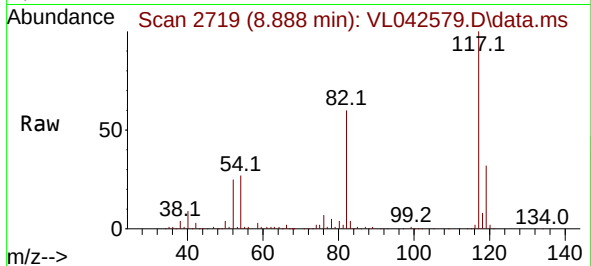




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

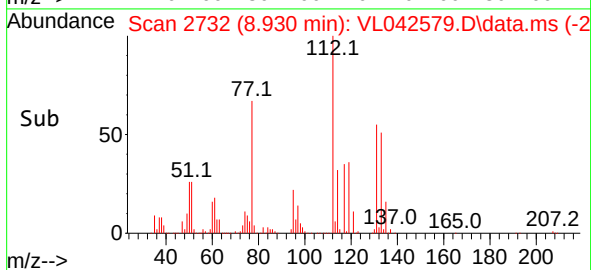
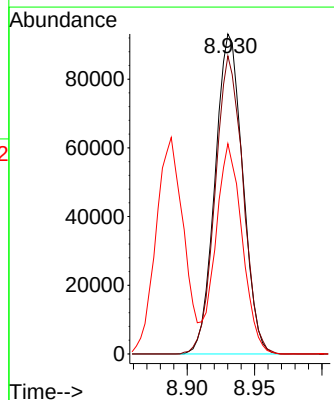
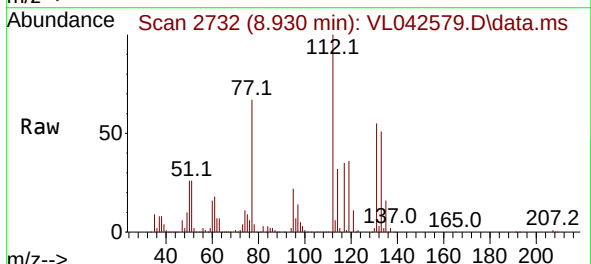
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

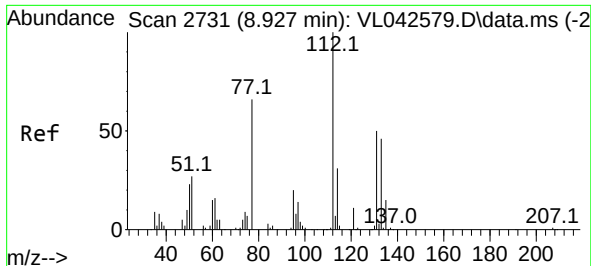
Tgt Ion:117 Resp: 285844
Ion Ratio Lower Upper
117 100
82 64.0 51.2 76.8
119 32.9 26.3 39.5



#56
1,1,1,2-Tetrachloroethane
Concen: 9.279 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion:131 Resp: 133368
Ion Ratio Lower Upper
131 100
133 93.8 75.0 112.6
119 63.5 50.8 76.2

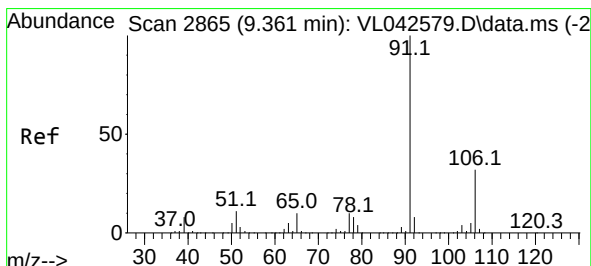
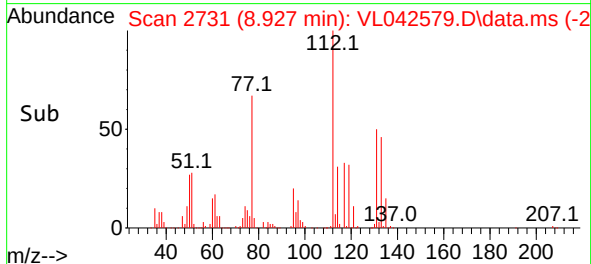
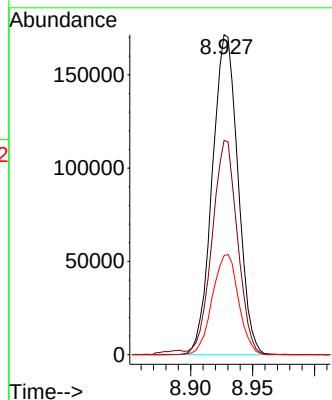
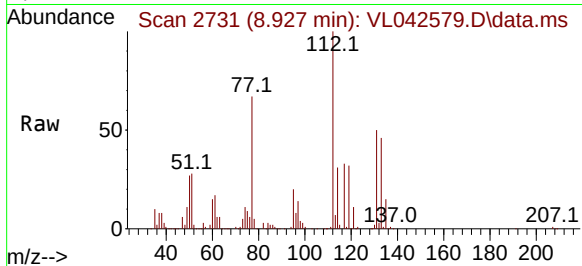




#57
Chlorobenzene
Concen: 8.938 ppbv
RT: 8.927 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

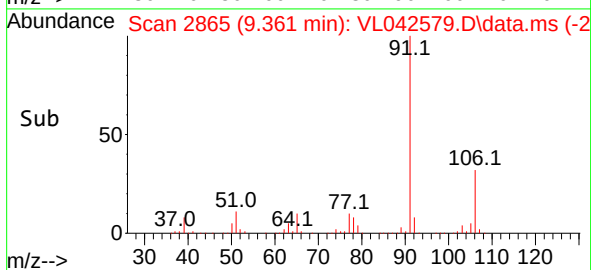
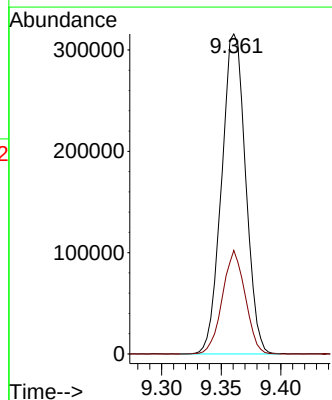
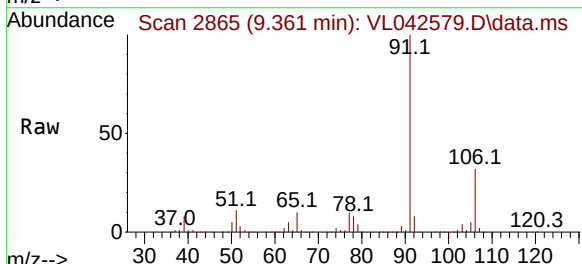
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

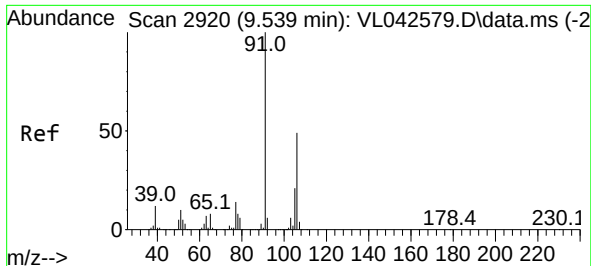
Tgt Ion:112 Resp: 248085
Ion Ratio Lower Upper
112 100
77 66.9 53.5 80.3
114 30.9 27.8 34.0



#58
Ethyl Benzene
Concen: 9.121 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion: 91 Resp: 442268
Ion Ratio Lower Upper
91 100
106 32.4 25.9 38.9





#59

m/p-Xylene

Concen: 8.784 ppbv

RT: 9.539 min Scan# 2920

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_1

ClientSampleId :

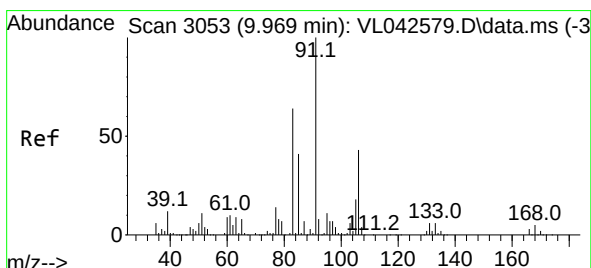
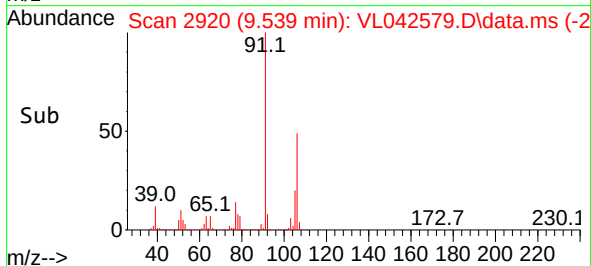
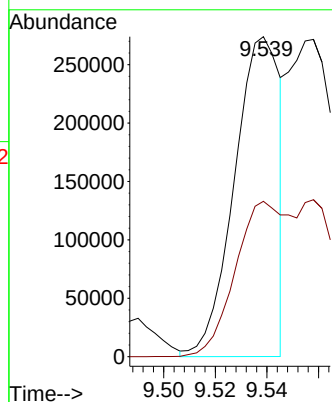
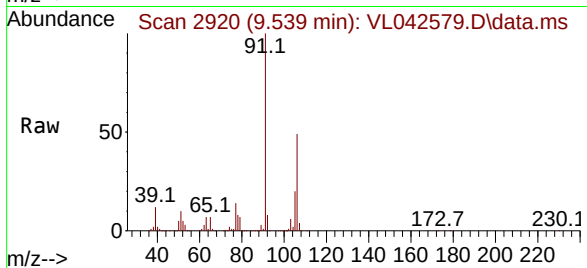
VSTDICCC010

Tgt Ion: 91 Resp: 335232

Ion Ratio Lower Upper

91 100

106 0.0 38.8 58.2#



#60

o-Xylene

Concen: 8.919 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. 0.000 min

Lab File: VL042579.D

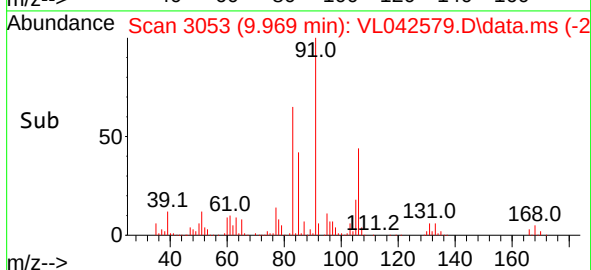
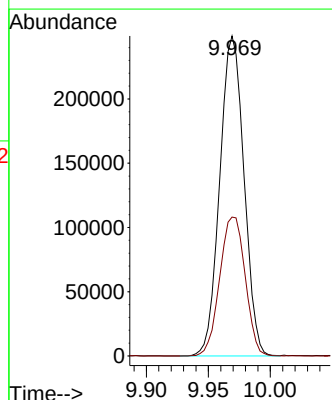
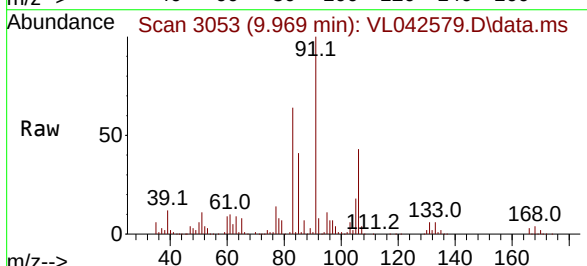
Acq: 29 May 2025 11:09

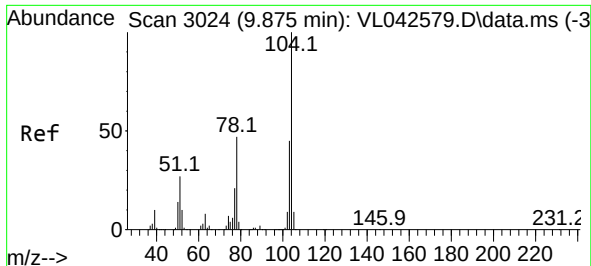
Tgt Ion: 91 Resp: 339403

Ion Ratio Lower Upper

91 100

106 45.7 22.9 68.5

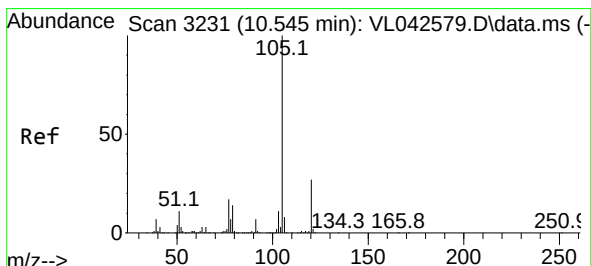
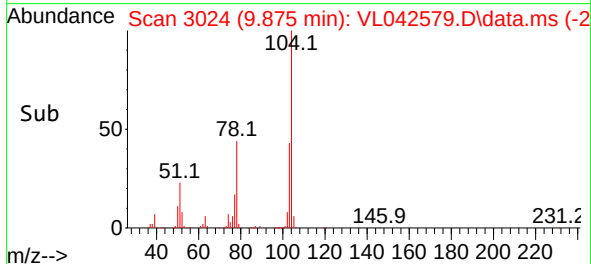
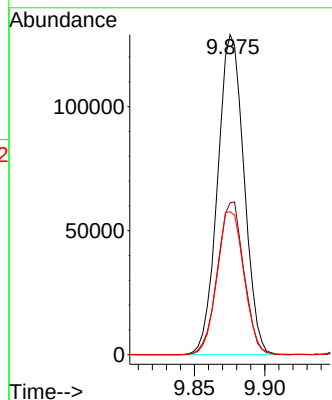
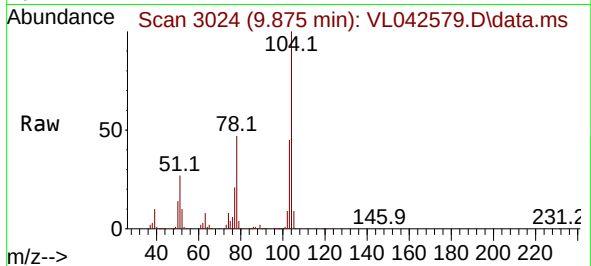




#61
Styrene
Concen: 9.374 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

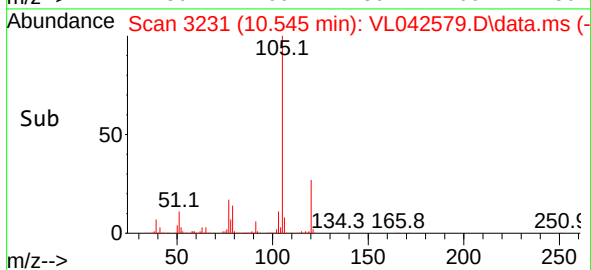
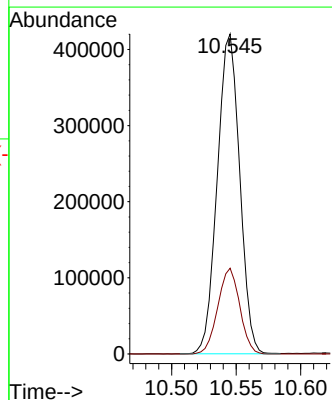
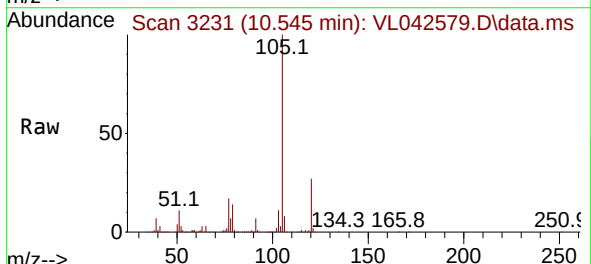
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

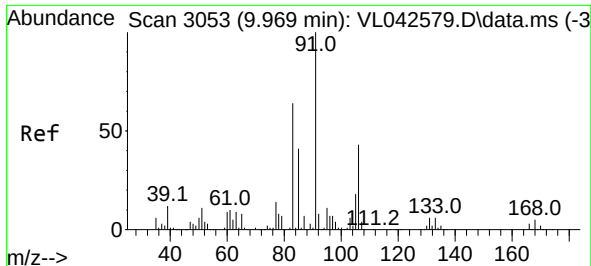
Tgt Ion:104 Resp: 168674
Ion Ratio Lower Upper
104 100
78 47.8 38.2 57.4
103 45.9 36.7 55.1



#62
Isopropylbenzene
Concen: 9.010 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion:105 Resp: 506586
Ion Ratio Lower Upper
105 100
120 26.1 20.9 31.3





#63

1,1,2,2-Tetrachloroethane

Concen: 8.536 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

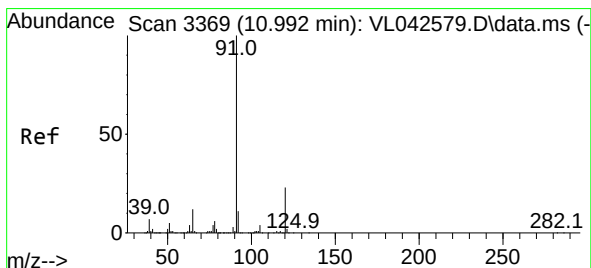
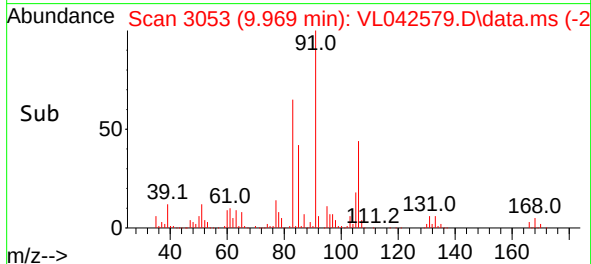
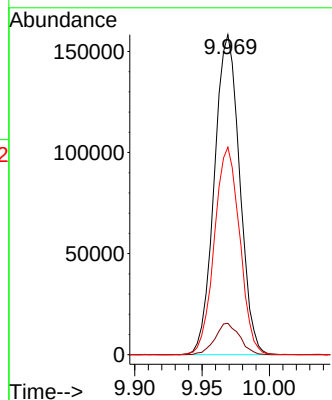
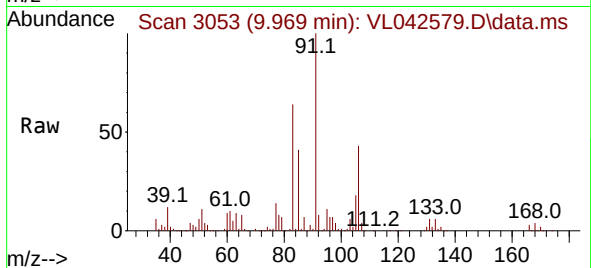
Tgt Ion: 83 Resp: 206564

Ion Ratio Lower Upper

83 100

131 9.6 4.8 14.4

85 64.9 32.5 97.4



#64

n-propylbenzene

Concen: 8.936 ppbv

RT: 10.992 min Scan# 3369

Delta R.T. 0.000 min

Lab File: VL042579.D

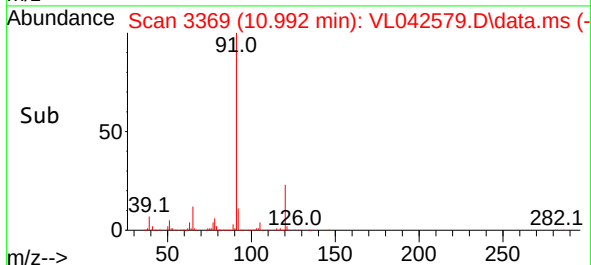
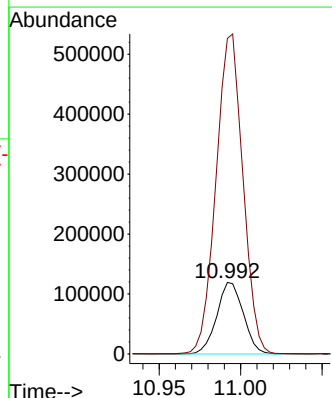
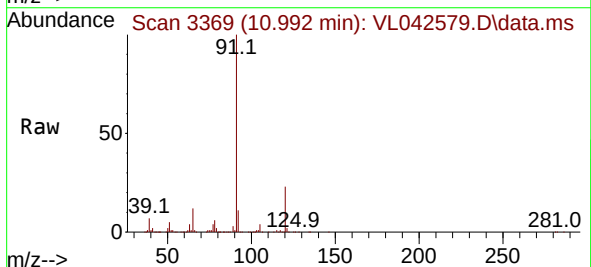
Acq: 29 May 2025 11:09

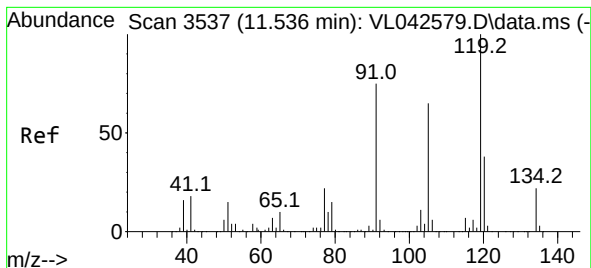
Tgt Ion: 120 Resp: 134675

Ion Ratio Lower Upper

120 100

91 455.6 363.0 544.6

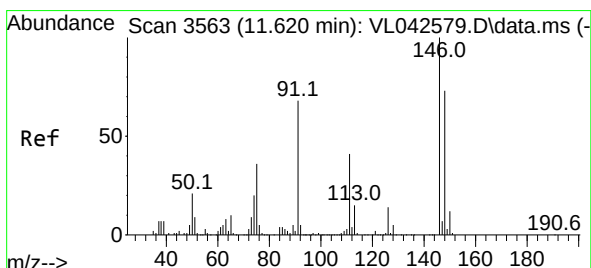
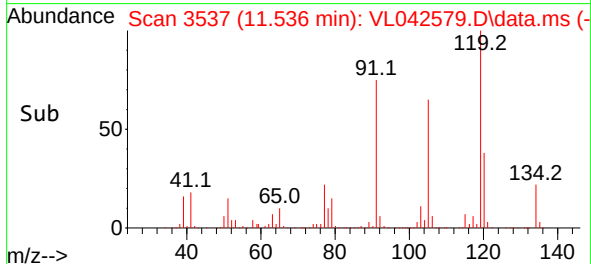
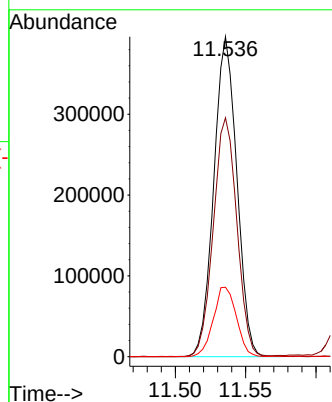
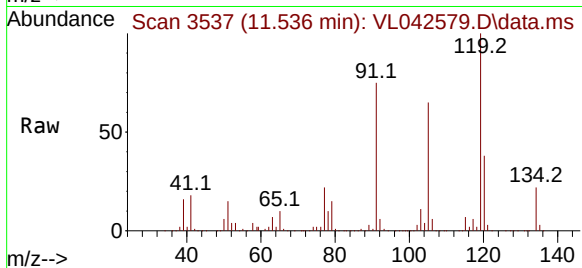




#65
tert-Butylbenzene
Concen: 8.833 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

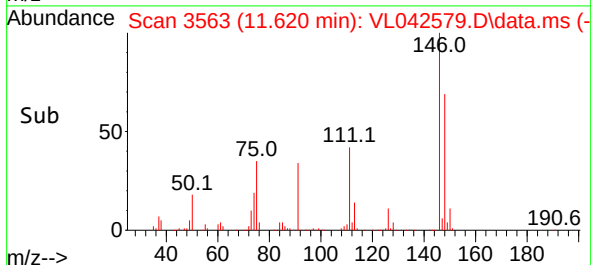
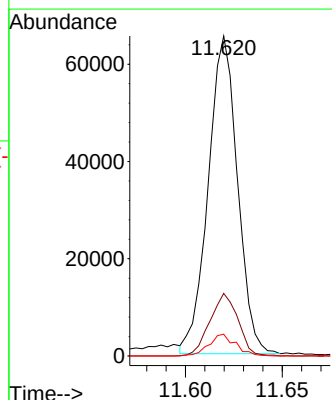
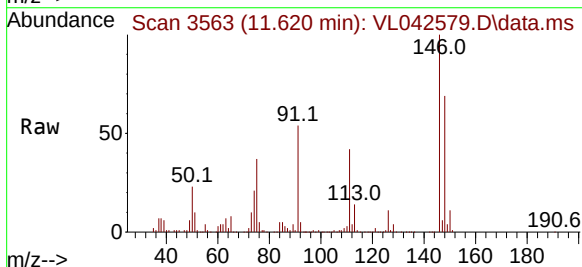
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

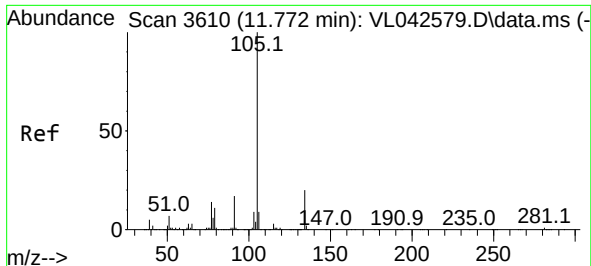
Tgt Ion:119 Resp: 450639
Ion Ratio Lower Upper
119 100
91 76.4 61.1 91.7
134 21.8 17.4 26.2



#66
Benzyl Chloride
Concen: 10.457 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion: 91 Resp: 68801
Ion Ratio Lower Upper
91 100
126 18.9 15.1 22.7
128 6.2 5.0 7.6

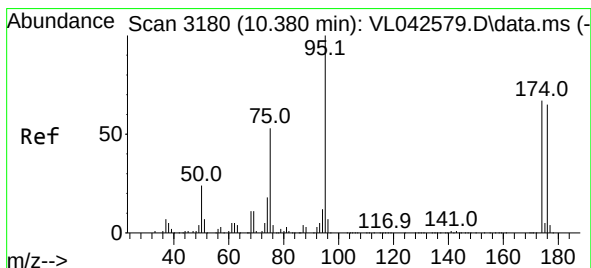
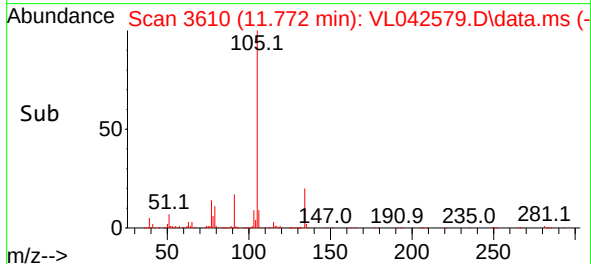
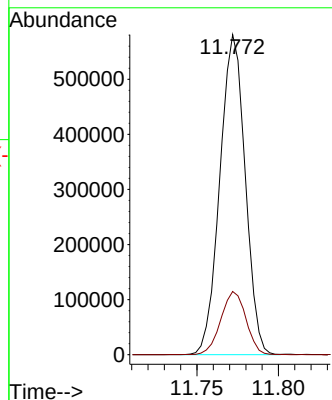
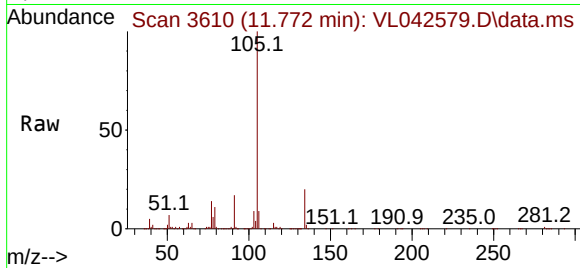




#67
 sec-Butylbenzene
 Concen: 8.749 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

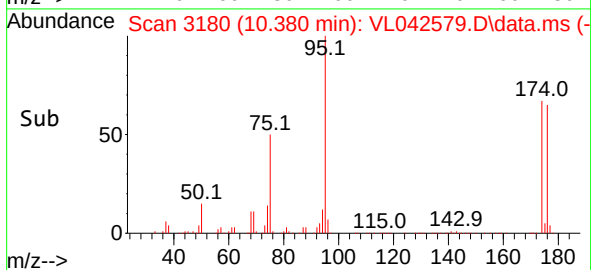
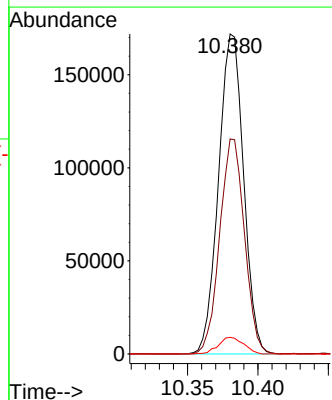
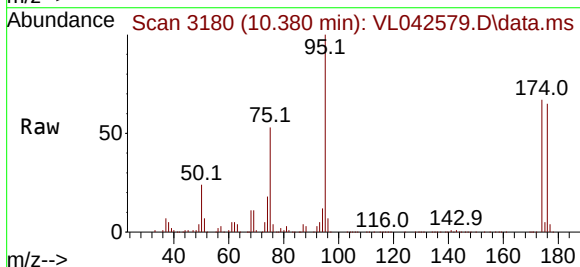
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

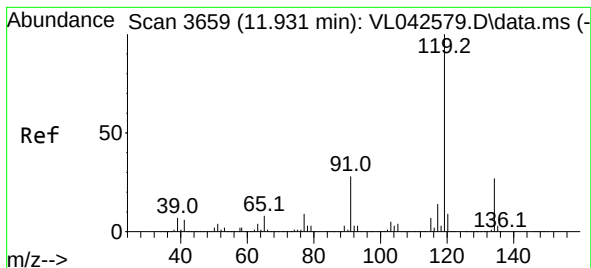
Tgt Ion:105 Resp: 627565
 Ion Ratio Lower Upper
 105 100
 134 19.7 15.8 23.6



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.929 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

Tgt Ion: 95 Resp: 212758
 Ion Ratio Lower Upper
 95 100
 174 66.4 53.1 79.7
 175 5.2 4.2 6.2





#69

p-Isopropyltoluene

Concen: 8.889 ppbv

RT: 11.931 min Scan# 3659

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

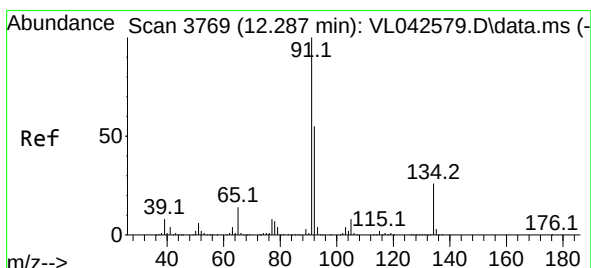
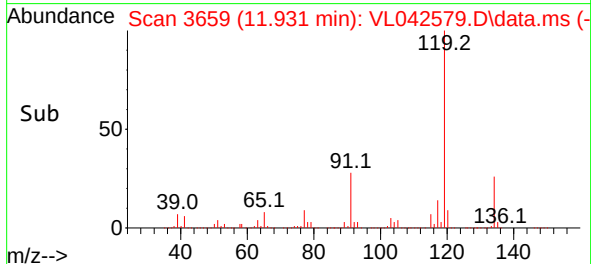
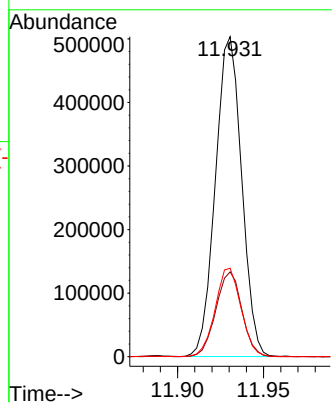
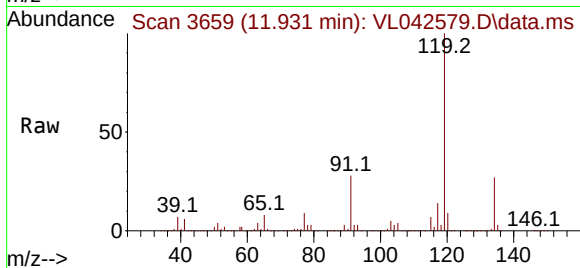
Tgt Ion:119 Resp: 533961

Ion Ratio Lower Upper

119 100

134 26.4 21.1 31.7

91 27.5 21.9 32.9



#70

n-Butylbenzene

Concen: 8.881 ppbv

RT: 12.287 min Scan# 3769

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

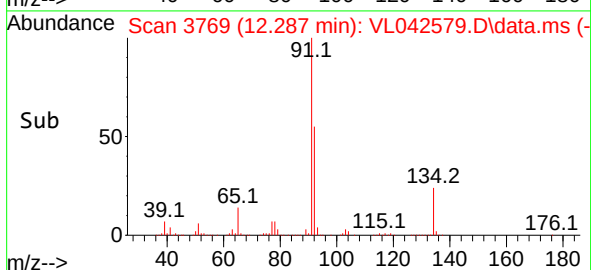
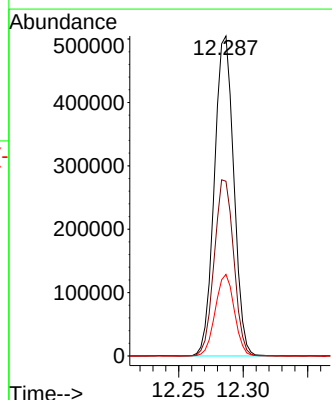
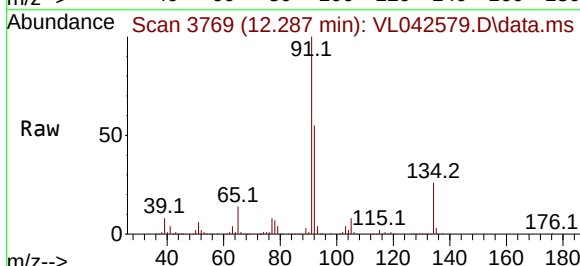
Tgt Ion: 91 Resp: 526566

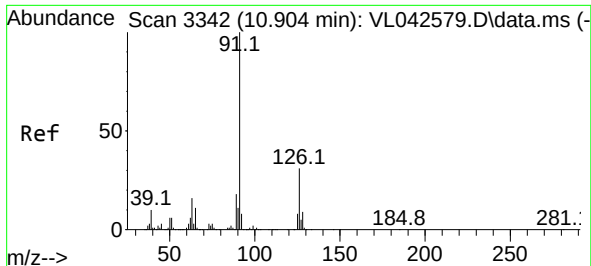
Ion Ratio Lower Upper

91 100

92 55.5 44.4 66.6

134 25.1 20.1 30.1

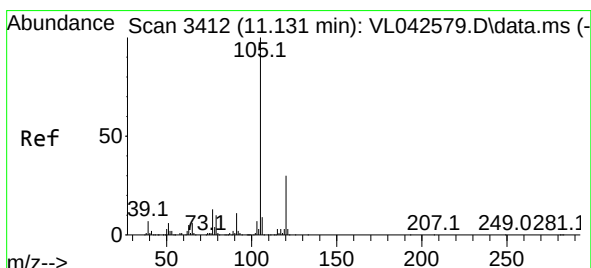
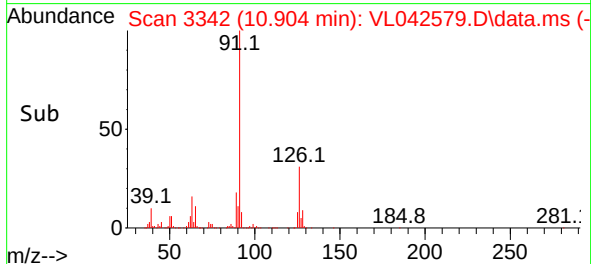
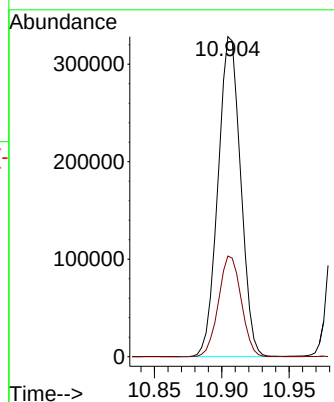
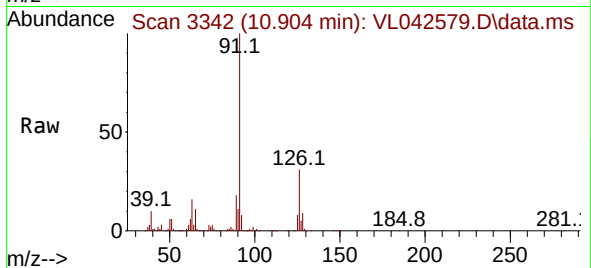




#71
2-Chlorotoluene
Concen: 8.952 ppbv
RT: 10.904 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

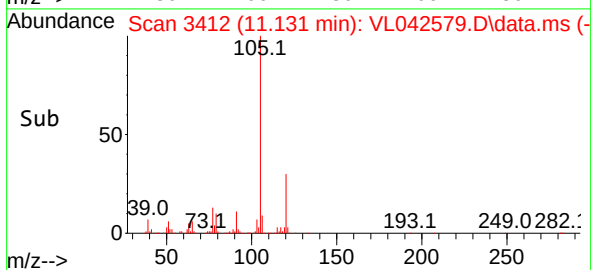
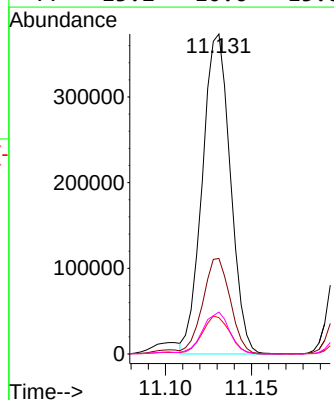
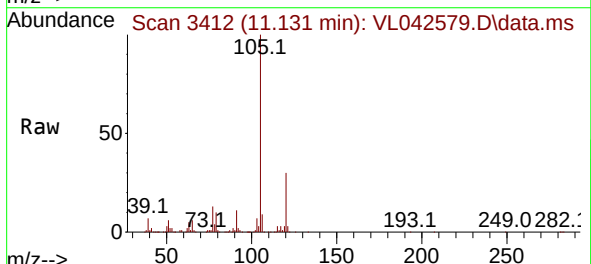
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

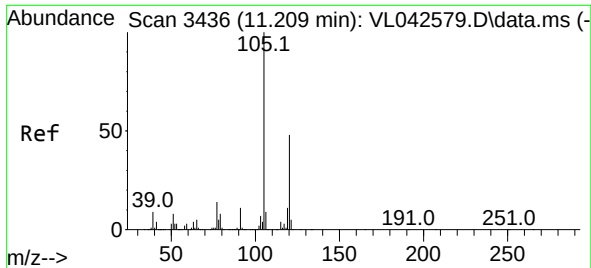
Tgt Ion: 91 Resp: 383881
Ion Ratio Lower Upper
91 100
126 31.5 12.6 50.4



#72
4-Ethyltoluene
Concen: 8.920 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion: 105 Resp: 423227
Ion Ratio Lower Upper
105 100
120 30.7 24.6 36.8
91 12.0 9.6 14.4
77 13.2 10.6 15.8

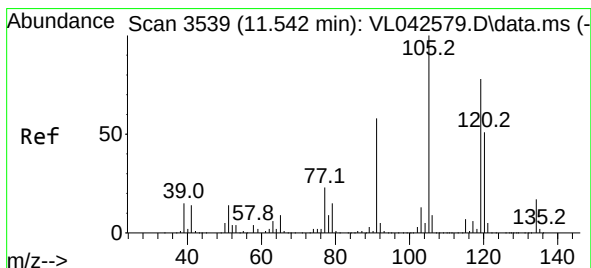
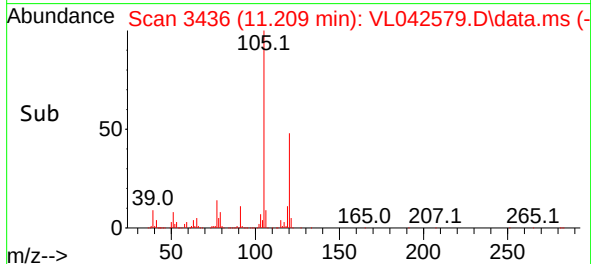
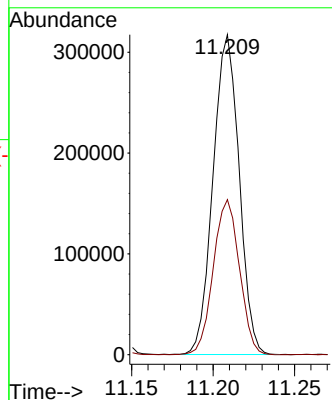
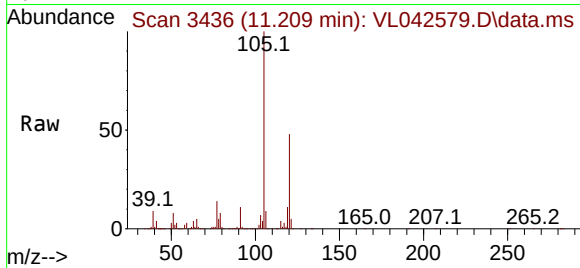




#73
 1,3,5-Trimethylbenzene
 Concen: 8.989 ppbv
 RT: 11.209 min Scan# 3436
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

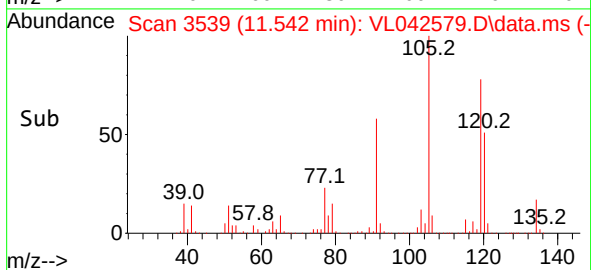
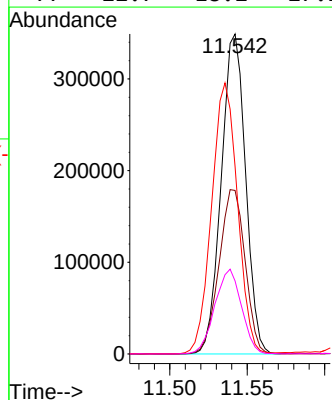
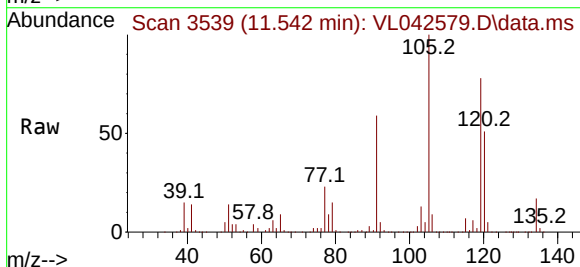
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

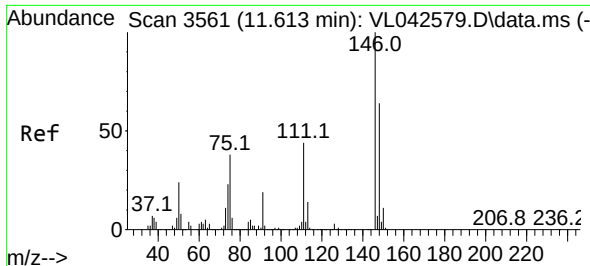
Tgt Ion:105 Resp: 352978
 Ion Ratio Lower Upper
 105 100
 120 48.5 38.8 58.2



#74
 1,2,4-Trimethylbenzene
 Concen: 8.755 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

Tgt Ion:105 Resp: 381512
 Ion Ratio Lower Upper
 105 100
 120 51.0 40.8 61.2
 91 58.5 46.8 70.2
 77 22.7 18.2 27.2

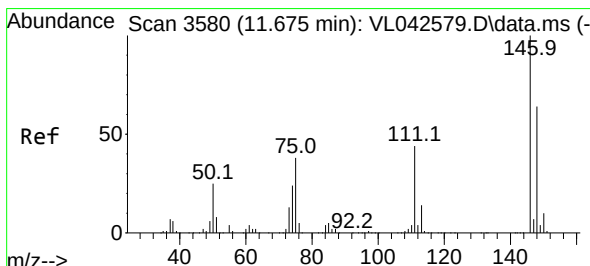
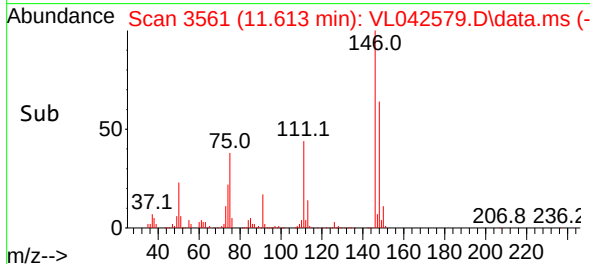
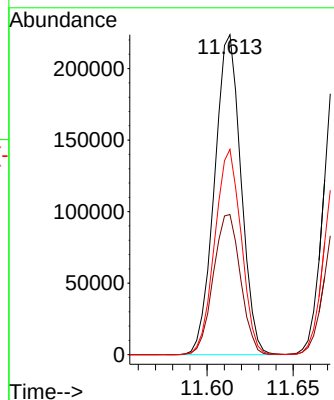
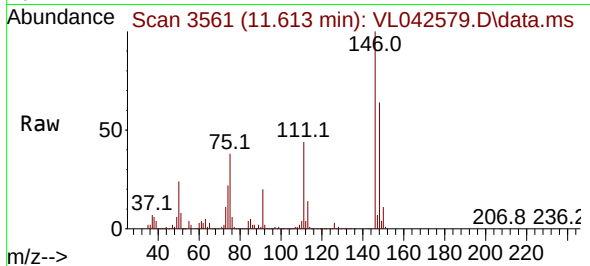




#75
1,3-Dichlorobenzene
Concen: 8.762 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

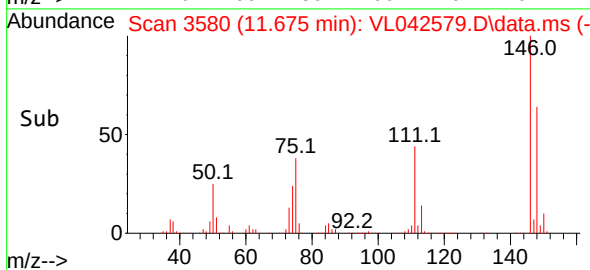
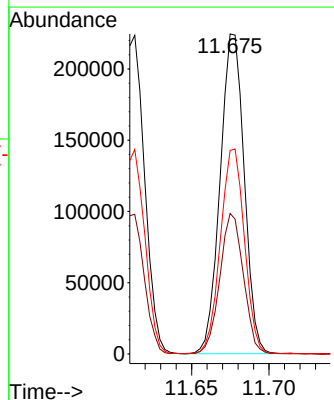
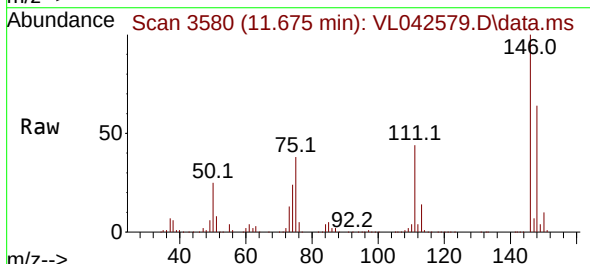
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

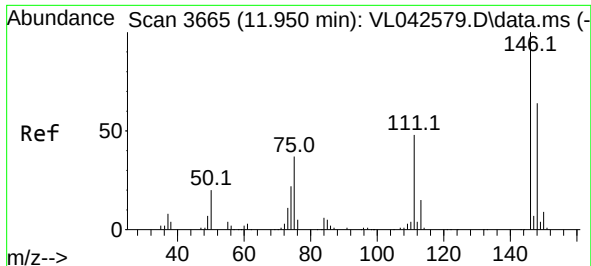
Tgt Ion:146 Resp: 239782
Ion Ratio Lower Upper
146 100
111 44.9 22.4 67.3
148 64.1 32.0 96.2



#76
1,4-Dichlorobenzene
Concen: 8.894 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion:146 Resp: 242731
Ion Ratio Lower Upper
146 100
111 43.2 21.6 64.8
148 64.4 32.1 96.5

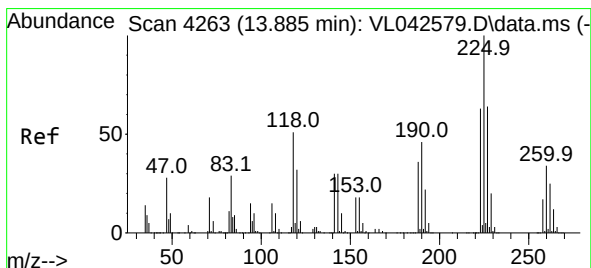
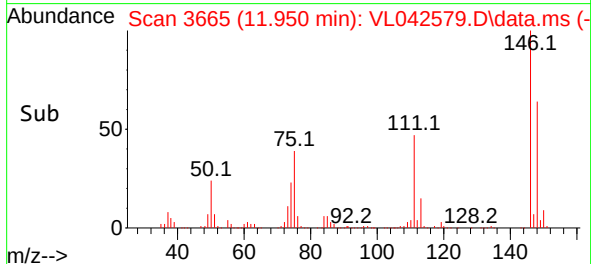
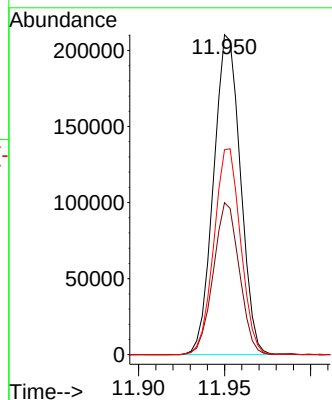
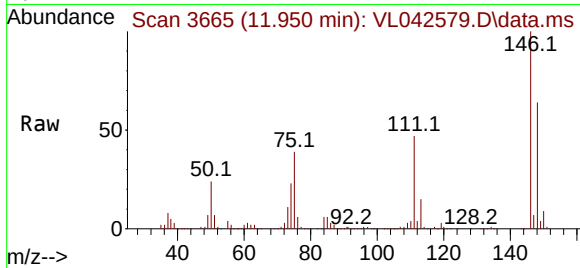




#77
1,2-Dichlorobenzene
Concen: 8.593 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

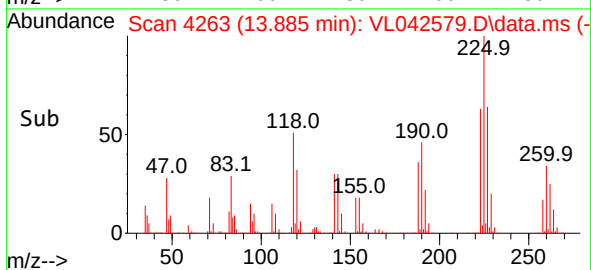
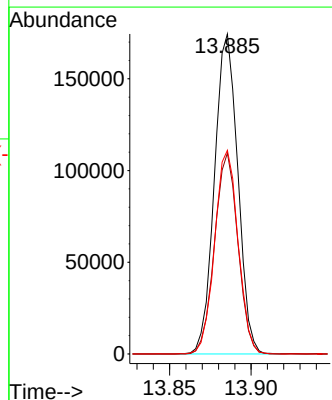
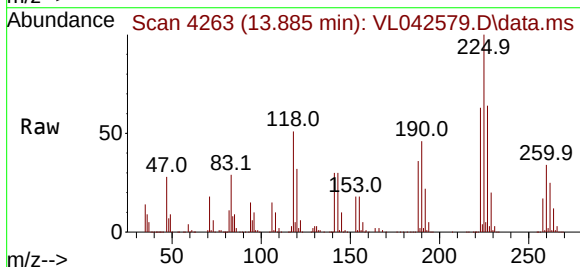
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

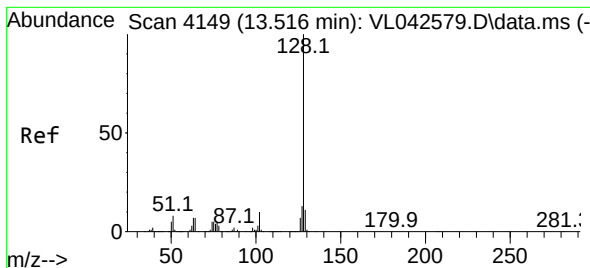
Tgt Ion:146 Resp: 228222
Ion Ratio Lower Upper
146 100
111 46.1 23.1 69.3
148 64.2 32.1 96.3



#78
Hexachloro-1,3-Butadiene
Concen: 7.893 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042579.D
Acq: 29 May 2025 11:09

Tgt Ion:225 Resp: 173447
Ion Ratio Lower Upper
225 100
223 62.8 50.2 75.4
227 63.9 51.1 76.7





#79

Naphthalene

Concen: 9.666 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

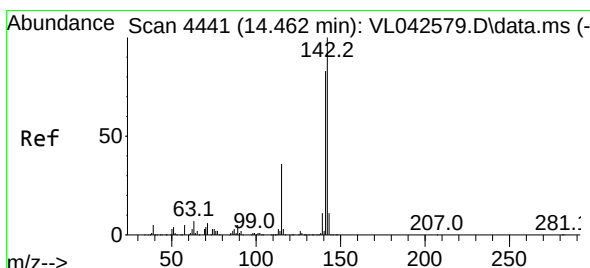
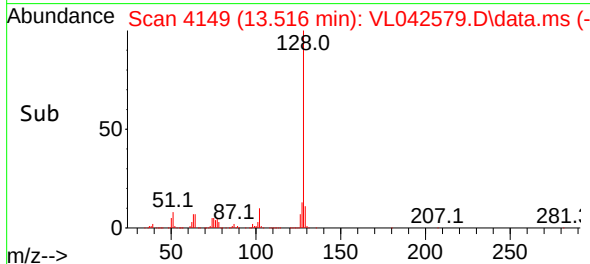
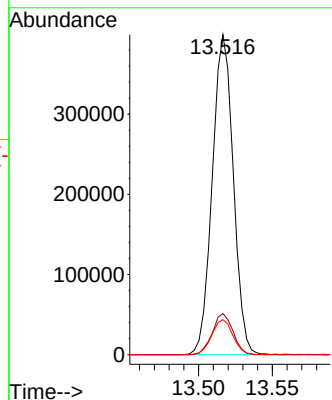
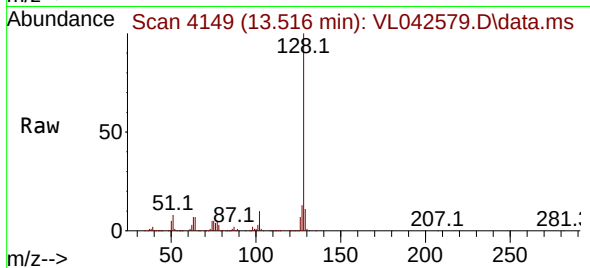
Tgt Ion:128 Resp: 395465

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

129 11.0 8.8 13.2



#80

Naphthalene,2-methyl-

Concen: 11.045 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.000 min

Lab File: VL042579.D

Acq: 29 May 2025 11:09

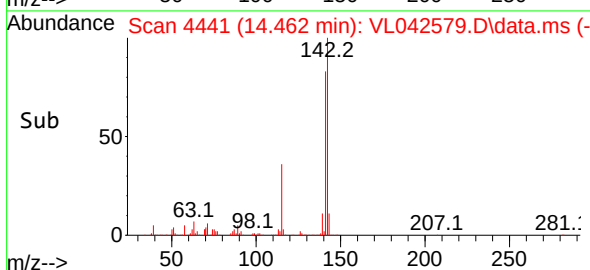
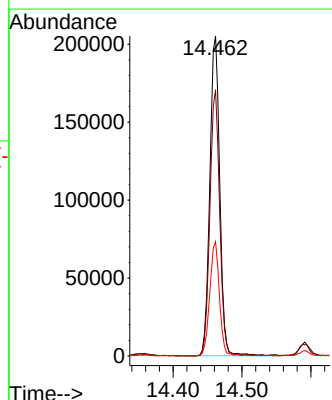
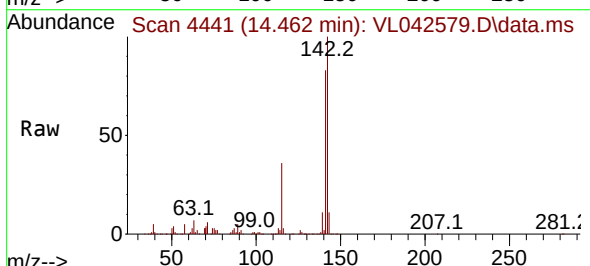
Tgt Ion:142 Resp: 204746

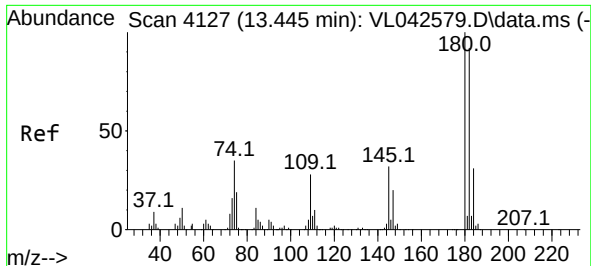
Ion Ratio Lower Upper

142 100

141 82.6 66.2 99.4

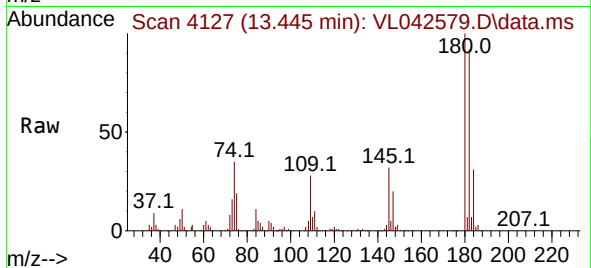
115 35.3 28.3 42.5



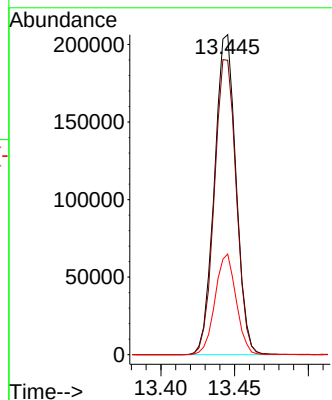
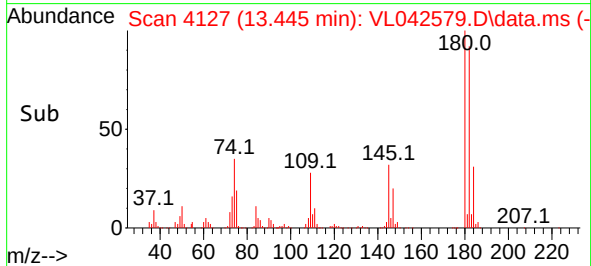


#81
 1,2,4-Trichlorobenzene
 Concen: 9.163 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042579.D
 Acq: 29 May 2025 11:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:180 Resp: 210120
 Ion Ratio Lower Upper
 180 100
 182 93.7 75.0 112.4
 184 30.7 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042580.D
 Acq On : 29 May 2025 11:43
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: May 30 01:17:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	104930	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	310090	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	284199	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	210508	9.881	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	27278	2.115	ppbv	99
3) Chlorodifluoromethane	1.476	51	38320	2.157	ppbv	98
4) Chloromethane	1.534	50	10641	2.084	ppbv	98
5) Vinyl Chloride	1.580	62	9819	1.887	ppbv	98
6) Bromomethane	1.670	94	4819	1.903	ppbv	83
7) Chloroethane	1.706	64	4162	2.059	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	22568	2.100	ppbv	98
9) Propene	1.483	41	15155	2.119	ppbv	96
10) Heptane	4.988	43	41577	2.060	ppbv	97
11) Trichlorofluoromethane	1.878	101	25215	2.101	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.143	101	19963	2.119	ppbv	99
13) Ethanol	1.722	45	1892	2.370	ppbv	84
14) Bromoethene	1.784	108	7607	2.146	ppbv #	94
15) Acetone	1.839	43	27254	2.156	ppbv	100
16) 1,3-Butadiene	1.609	39	12523	2.092	ppbv	95
17) tert-Butyl alcohol	2.046	59	26842	2.039	ppbv	96
18) 1,1-Dichloroethene	2.036	96	9179	2.094	ppbv	95
19) Isopropyl Alcohol	1.887	45	15567	2.060	ppbv #	43
20) Methylene Chloride	2.062	84	8763	2.101	ppbv	95
21) Allyl Chloride	2.098	41	18178	2.038	ppbv	91
22) trans-1,2-Dichloroethene	2.344	96	9775	1.998	ppbv	97
23) Vinyl Acetate	2.467	43	35373	2.070	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	21077	2.100	ppbv	98
25) Ethyl Acetate	2.842	43	71613	2.070	ppbv	99
26) Hexane	2.829	57	32018	2.037	ppbv	97
27) Carbon Disulfide	2.153	76	25143	2.084	ppbv #	62
28) Methyl tert-Butyl Ether	2.444	73	13034	2.044	ppbv #	90
29) Chloroform	2.852	83	42693	2.089	ppbv	93
30) Cyclohexane	3.858	84	27030	2.075	ppbv	96
31) cis-1,2-Dichloroethene	2.726	61	30737	2.138	ppbv	93
32) 1,1,1-Trichloroethane	3.373	97	42588	2.077	ppbv	99
34) 2-Butanone	2.564	43	46279	2.093	ppbv	100
35) Carbon Tetrachloride	3.768	117	41545	2.029	ppbv	95
36) Benzene	3.661	78	63709	2.086	ppbv	96
37) 1,2-Dichloroethane	3.221	62	31831	2.097	ppbv	97
38) Trichloroethene	4.554	130	27139	2.075	ppbv	95
39) 1,2-Dichloropropane	4.321	63	23145	2.050	ppbv	98
40) 1,4-Dioxane	4.596	88	3930	0.819	ppbv #	1
41) Tetrahydrofuran	3.062	42	26391	2.039	ppbv	96
42) Bromodichloromethane	4.496	83	44705	2.074	ppbv	90
43) Methyl Methacrylate	4.888	69	13583	1.148	ppbv #	10
44) 2,2,4-Trimethylpentane	4.648	57	109446	2.097	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	17372	1.281	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042580.D
 Acq On : 29 May 2025 11:43
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

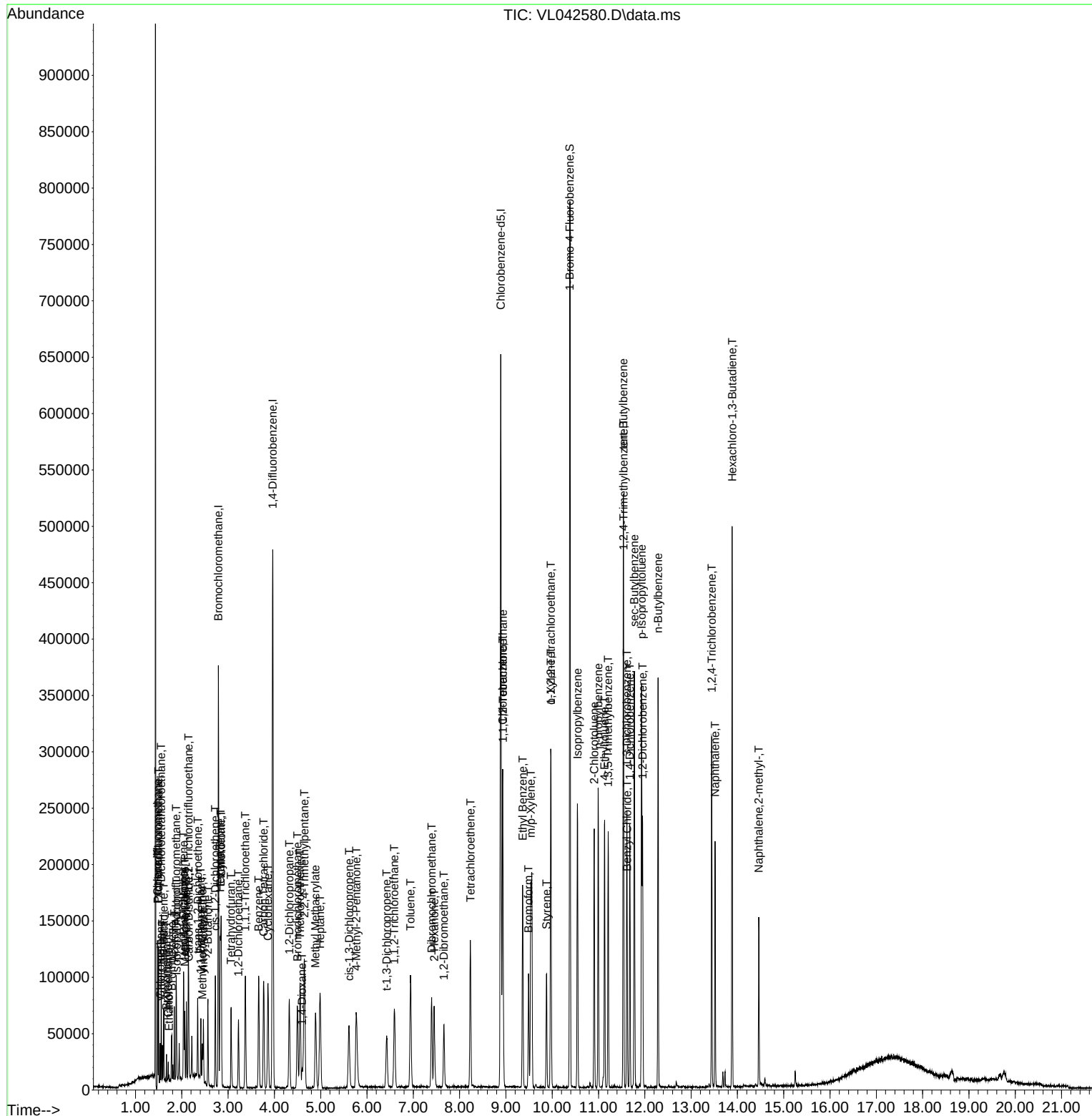
Quant Time: May 30 01:17:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

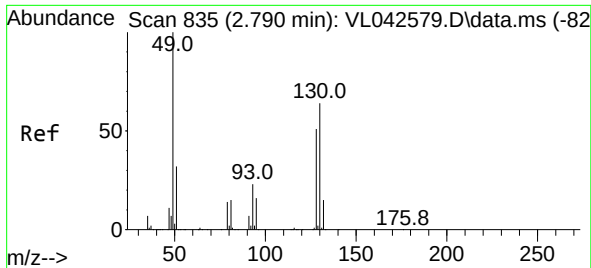
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	34445	2.027	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	24455	2.092	ppbv	94
48) Dibromochloromethane	7.396	129	39361	2.103	ppbv	99
49) Bromoform	9.487	173	34270	2.122	ppbv	98
50) 4-Methyl-2-Pentanone	5.771	43	62167	2.018	ppbv	99
51) 2-Hexanone	7.451	43	51074	2.100	ppbv #	97
52) Tetrachloroethene	8.234	164	24205	2.121	ppbv	95
53) Toluene	6.940	91	74240	2.104	ppbv	99
54) 1,2-Dibromoethane	7.661	107	35750	2.063	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.933	131	30026	2.101	ppbv	97
57) Chlorobenzene	8.930	112	57617	2.088	ppbv	95
58) Ethyl Benzene	9.361	91	104171	2.161	ppbv	96
59) m/p-Xylene	9.539	91	87626	2.309	ppbv #	29
60) o-Xylene	9.969	91	81886	2.164	ppbv	97
61) Styrene	9.879	104	38542	2.154	ppbv	99
62) Isopropylbenzene	10.545	105	120576	2.157	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	48590	2.020	ppbv	99
64) n-propylbenzene	10.995	120	32406	2.163	ppbv	100
65) tert-Butylbenzene	11.536	119	110380	2.176	ppbv	99
66) Benzyl Chloride	11.620	91	14327	2.190	ppbv	98
67) sec-Butylbenzene	11.772	105	153401	2.151	ppbv	99
69) p-Isopropyltoluene	11.931	119	130647	2.188	ppbv	99
70) n-Butylbenzene	12.287	91	130662	2.216	ppbv	100
71) 2-Chlorotoluene	10.908	91	90725	2.128	ppbv	99
72) 4-Ethyltoluene	11.128	105	103640	2.197	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	83829	2.147	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	94716	2.186	ppbv	98
75) 1,3-Dichlorobenzene	11.610	146	59138	2.174	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	58920	2.171	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	58400	2.212	ppbv	96
78) Hexachloro-1,3-Butadiene	13.885	225	49999	2.288	ppbv	98
79) Naphthalene	13.517	128	101451	2.494	ppbv	98
80) Naphthalene,2-methyl-	14.462	142	44376	2.408	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	53653	2.353	ppbv	97

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

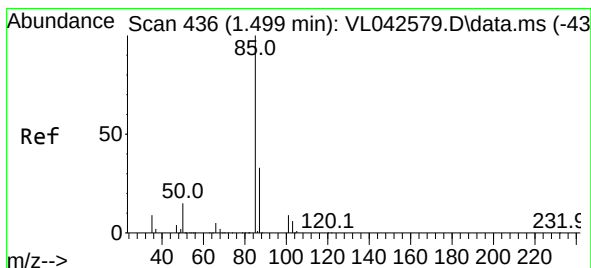
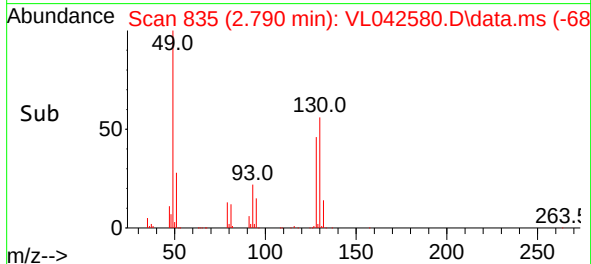
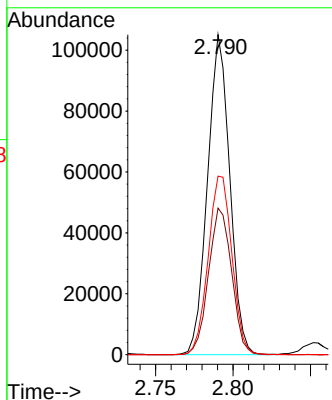
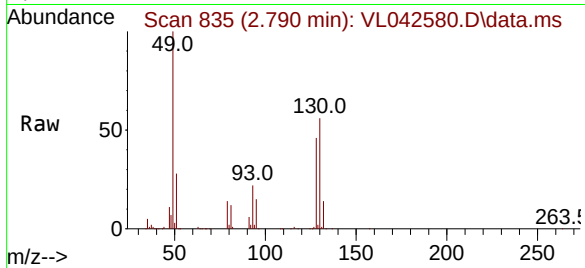




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

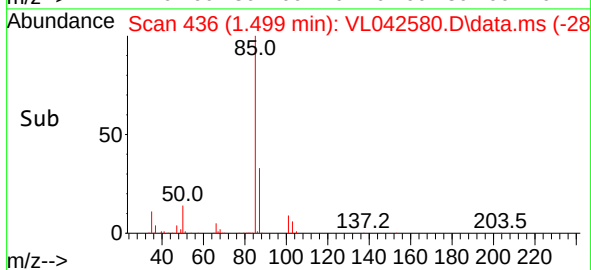
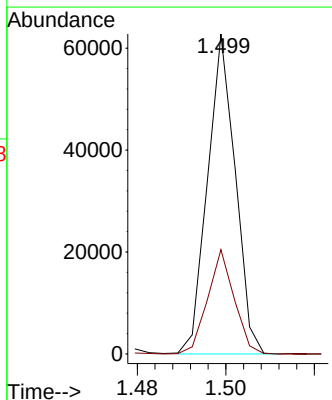
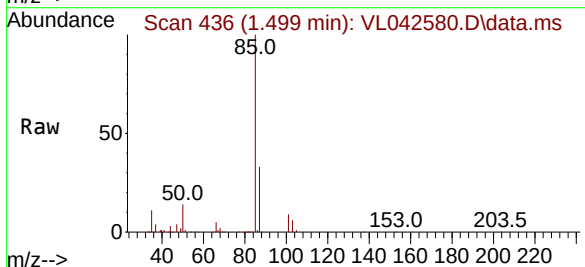
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

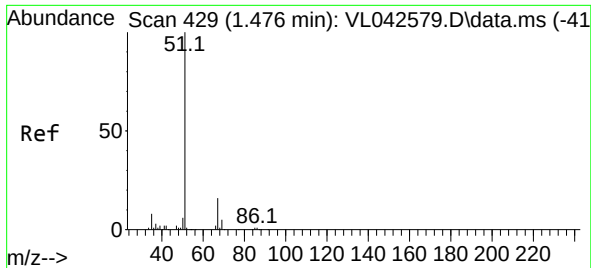
Tgt Ion: 49 Resp: 104930
Ion Ratio Lower Upper
49 100
128 47.6 24.2 72.6
130 59.6 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 2.115 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 85 Resp: 27278
Ion Ratio Lower Upper
85 100
87 32.6 26.6 39.8

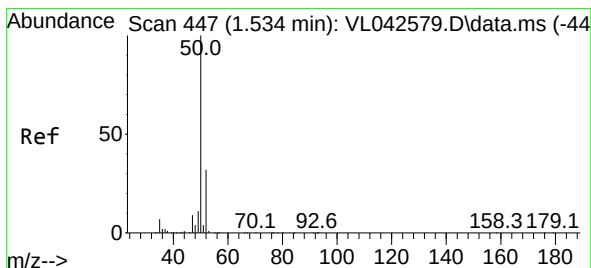
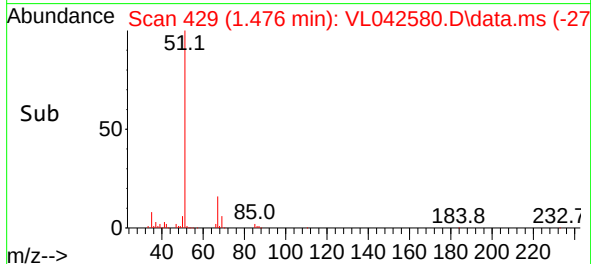
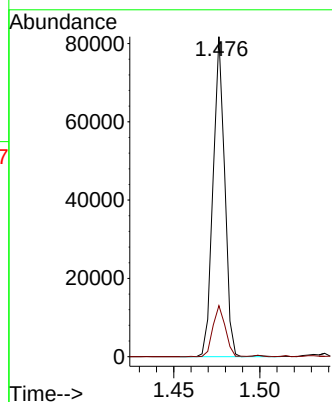
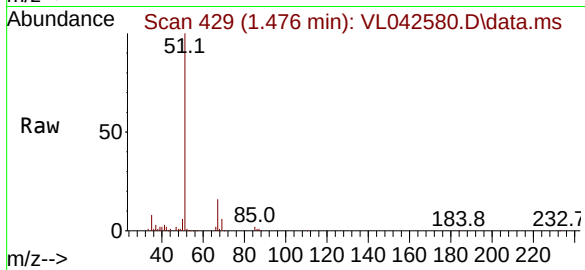




#3
Chlorodifluoromethane
Concen: 2.157 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

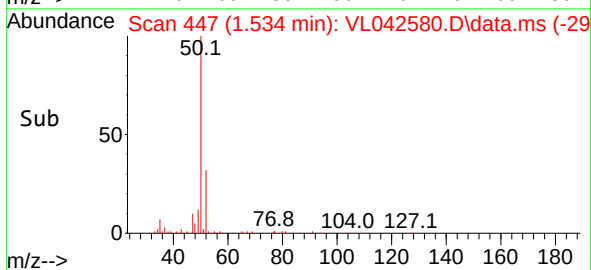
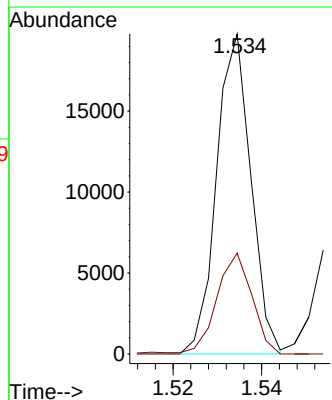
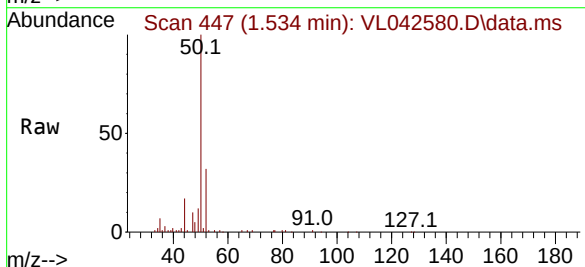
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

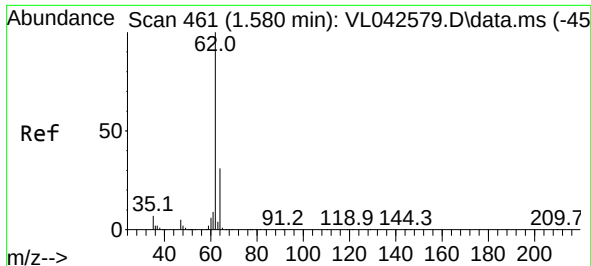
Tgt Ion: 51 Resp: 38320
Ion Ratio Lower Upper
51 100
67 17.5 13.4 20.2



#4
Chloromethane
Concen: 2.084 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 50 Resp: 10641
Ion Ratio Lower Upper
50 100
52 31.1 25.8 38.6

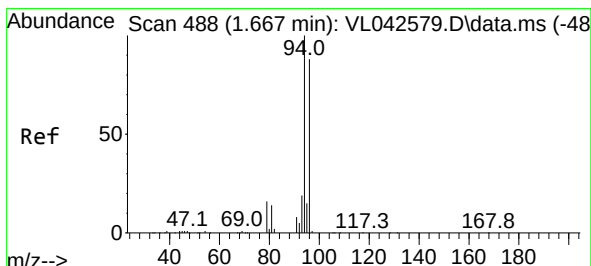
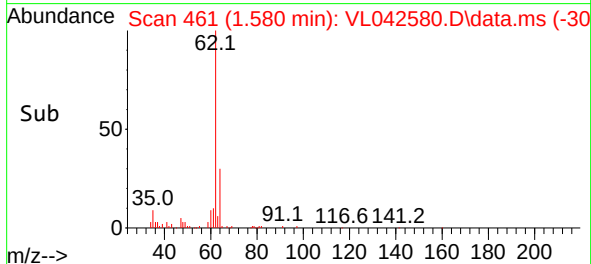
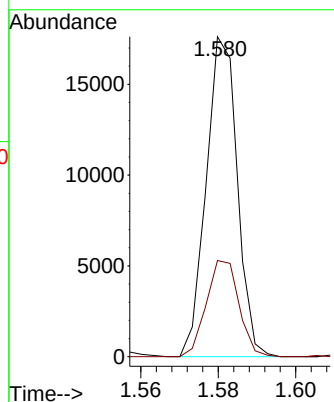
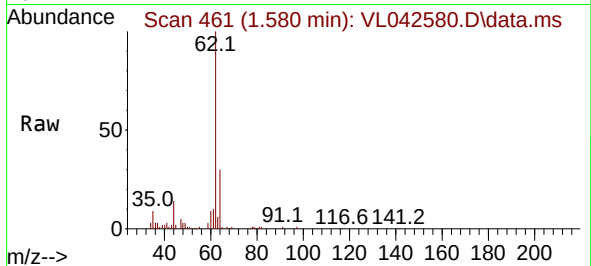




#5
 Vinyl Chloride
 Concen: 1.887 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

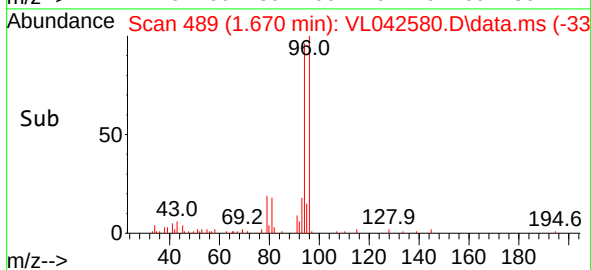
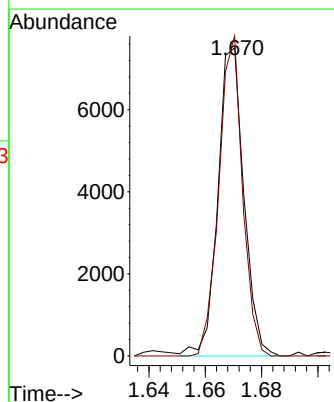
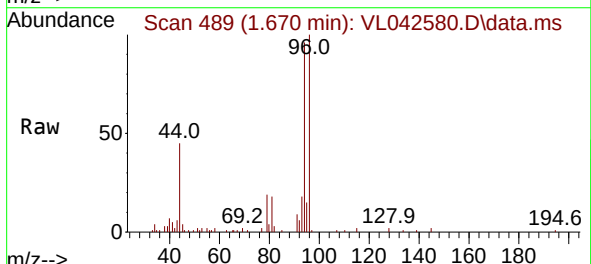
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

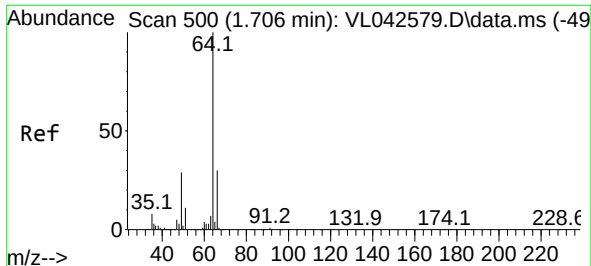
Tgt Ion: 62 Resp: 9819
 Ion Ratio Lower Upper
 62 100
 64 30.0 24.9 37.3



#6
 Bromomethane
 Concen: 1.903 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

Tgt Ion: 94 Resp: 4819
 Ion Ratio Lower Upper
 94 100
 96 103.8 70.7 106.1

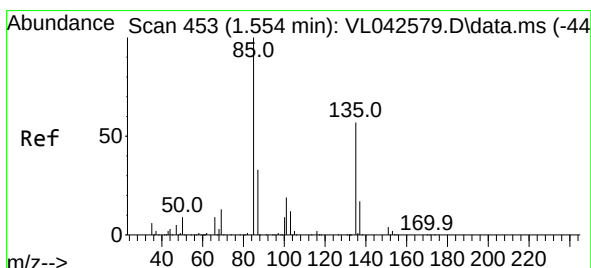
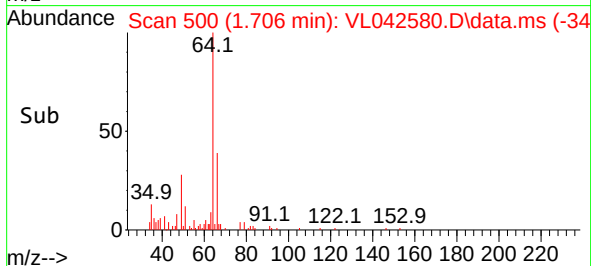
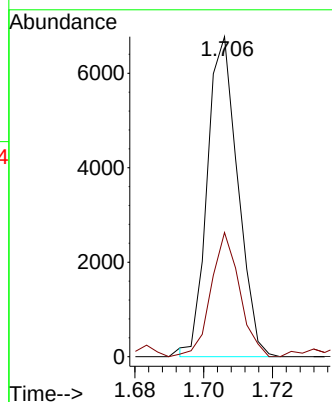
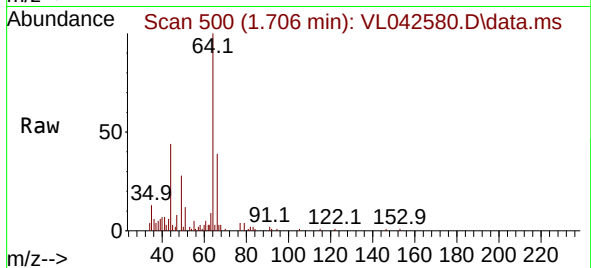




#7
Chloroethane
Concen: 2.059 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

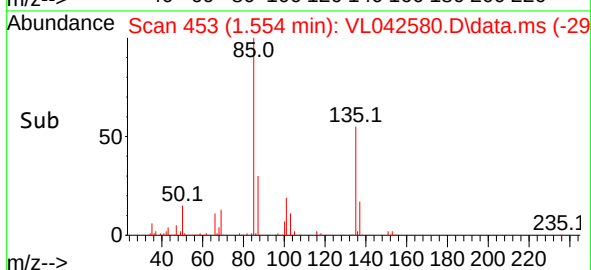
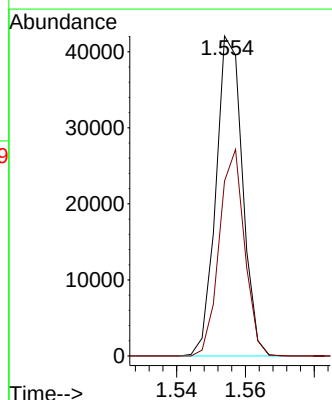
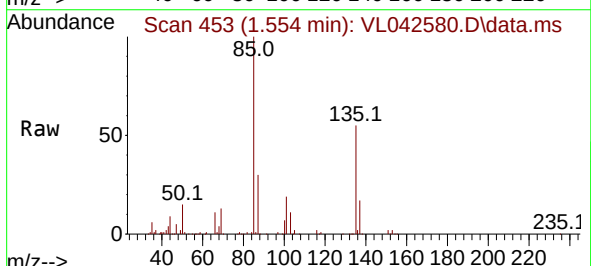
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

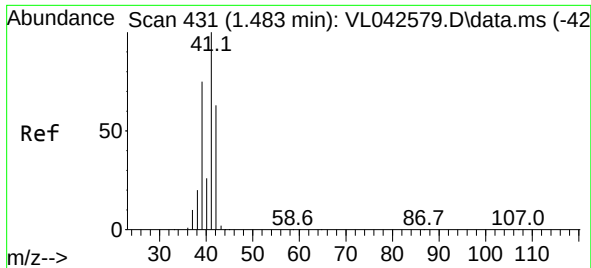
Tgt Ion: 64 Resp: 4162
Ion Ratio Lower Upper
64 100
66 38.8 24.3 36.5#



#8
Dichlorotetrafluoroethane
Concen: 2.100 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 85 Resp: 22568
Ion Ratio Lower Upper
85 100
135 61.5 50.2 75.4





#9

Propene

Concen: 2.119 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

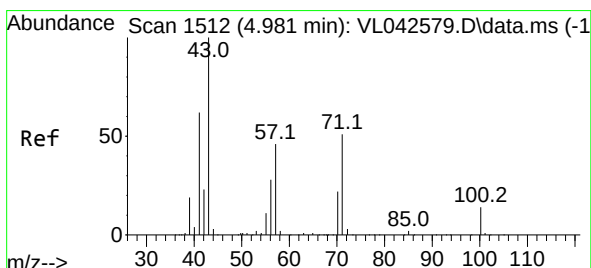
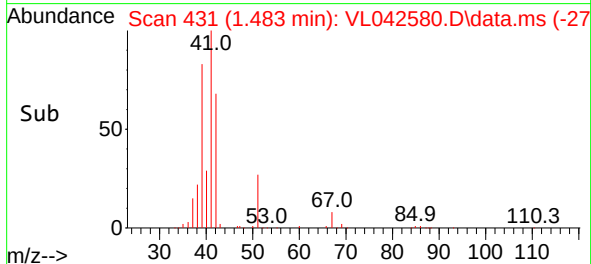
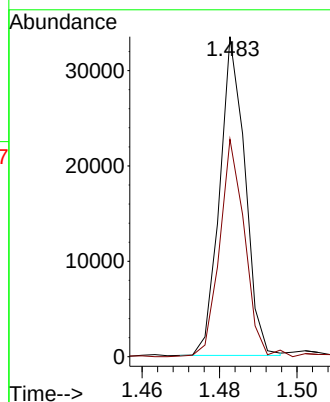
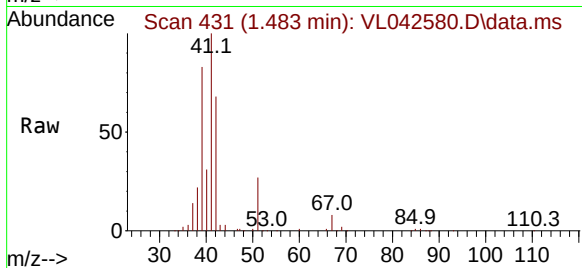
VSTDICC002

Tgt Ion: 41 Resp: 15155

Ion Ratio Lower Upper

41 100

42 69.5 53.3 79.9



#10

Heptane

Concen: 2.060 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.007 min

Lab File: VL042580.D

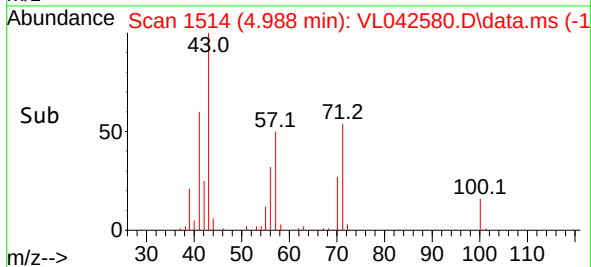
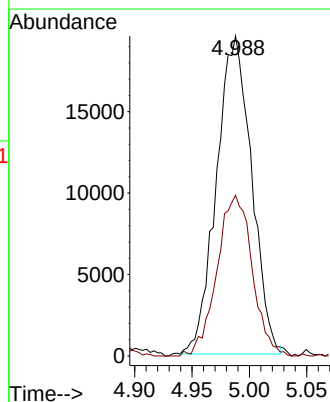
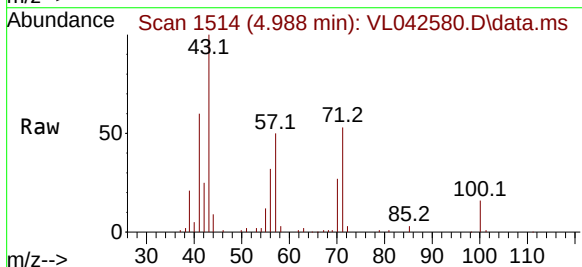
Acq: 29 May 2025 11:43

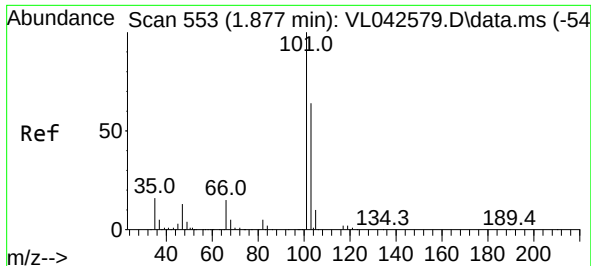
Tgt Ion: 43 Resp: 41577

Ion Ratio Lower Upper

43 100

57 50.7 38.9 58.3

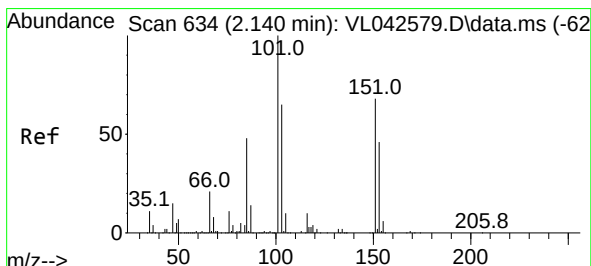
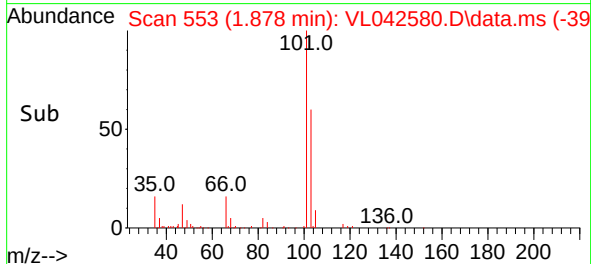
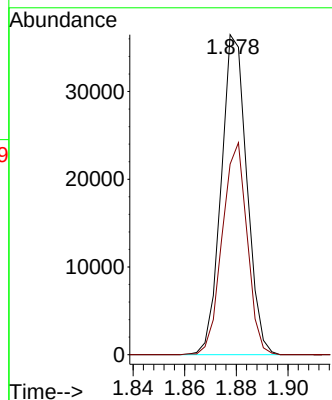
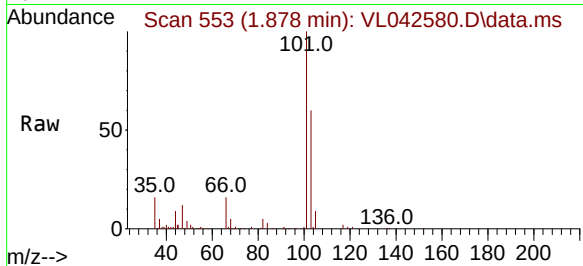




#11
 Trichlorofluoromethane
 Concen: 2.101 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

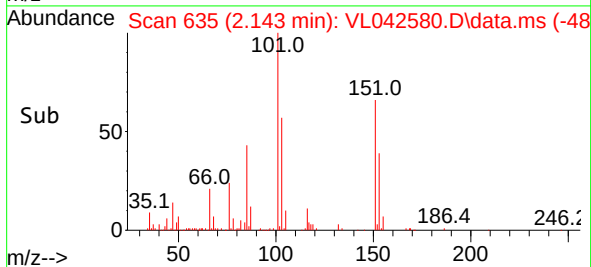
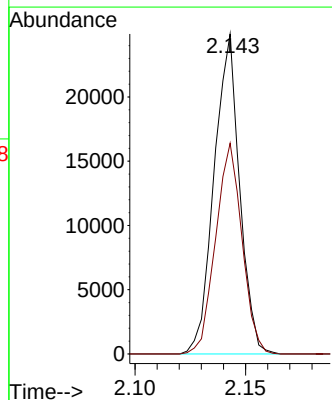
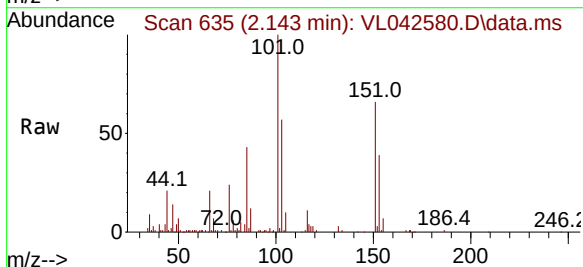
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

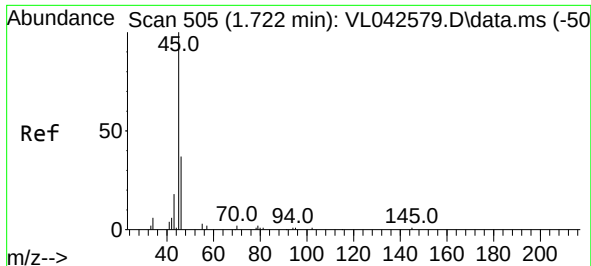
Tgt Ion:101 Resp: 25215
 Ion Ratio Lower Upper
 101 100
 103 59.5 51.5 77.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.119 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.003 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

Tgt Ion:101 Resp: 19963
 Ion Ratio Lower Upper
 101 100
 151 68.0 55.3 82.9

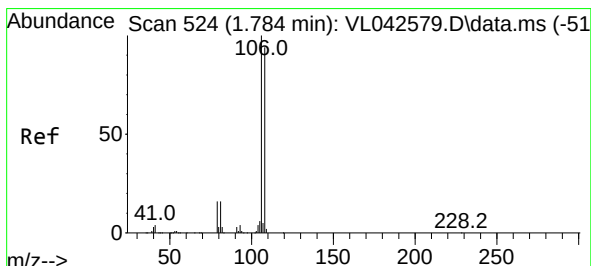
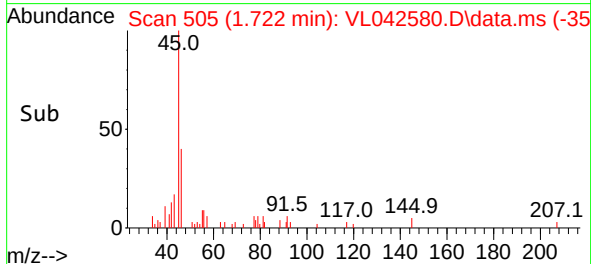
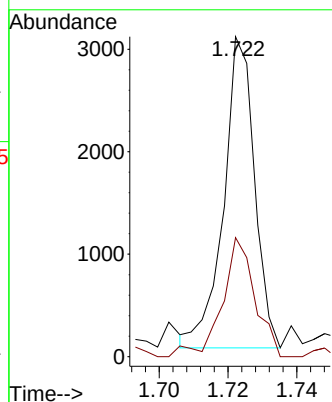
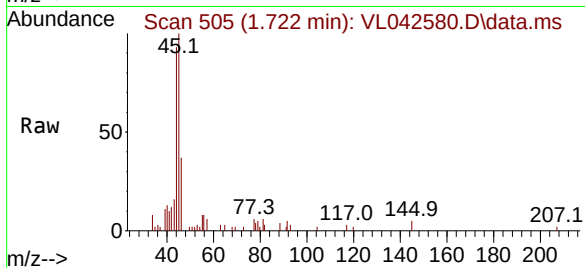




#13
Ethanol
Concen: 2.370 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

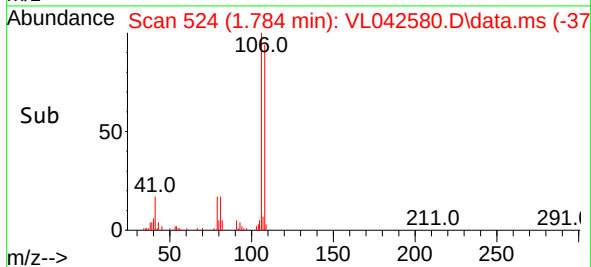
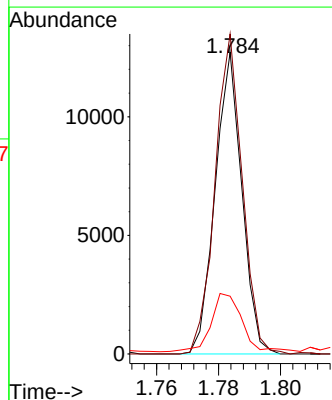
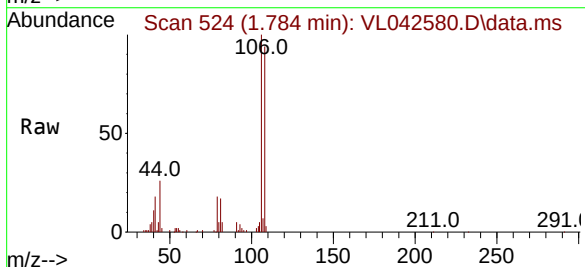
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

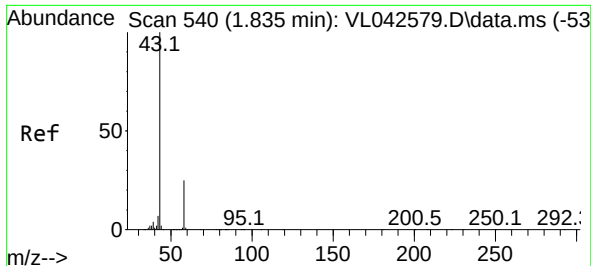
Tgt Ion: 45 Resp: 1892
Ion Ratio Lower Upper
45 100
46 45.6 14.5 58.1



#14
Bromoethene
Concen: 2.146 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 108 Resp: 7607
Ion Ratio Lower Upper
108 100
106 108.4 87.9 131.9
79 34.7 15.6 23.4

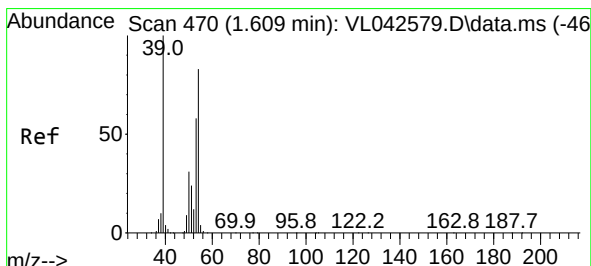
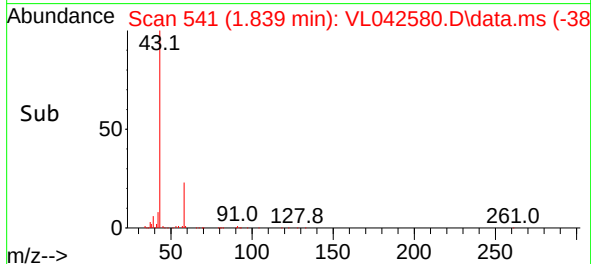
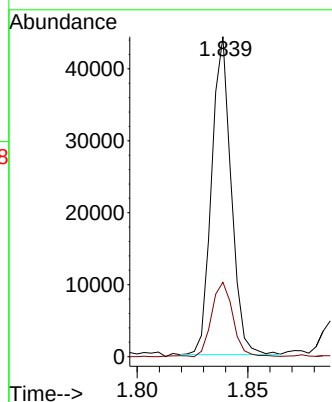
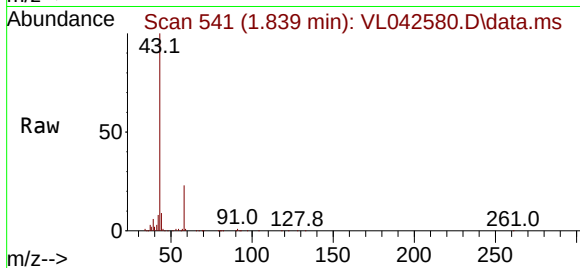




#15
Acetone
Concen: 2.156 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

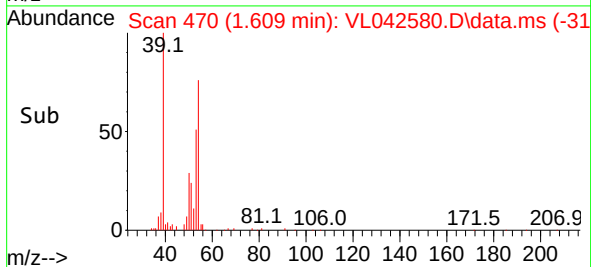
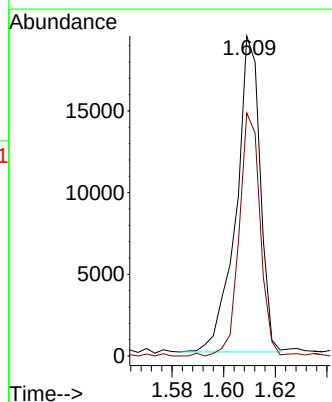
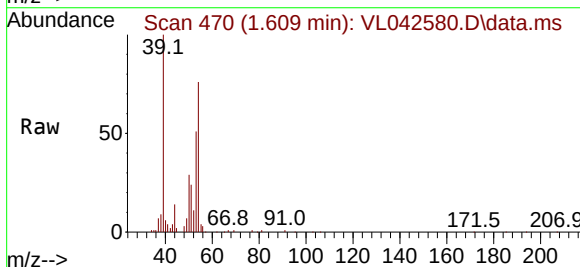
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

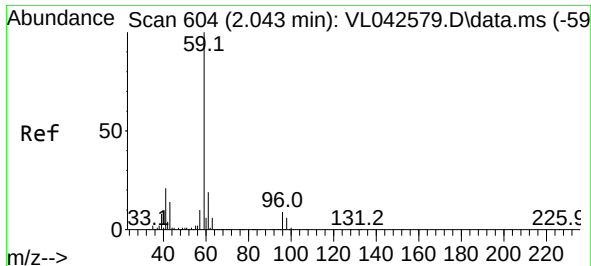
Tgt Ion: 43 Resp: 27254
Ion Ratio Lower Upper
43 100
58 26.2 21.0 31.4



#16
1,3-Butadiene
Concen: 2.092 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 39 Resp: 12523
Ion Ratio Lower Upper
39 100
54 68.6 57.9 86.9





#17

tert-Butyl alcohol

Concen: 2.039 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_1

ClientSampleId :

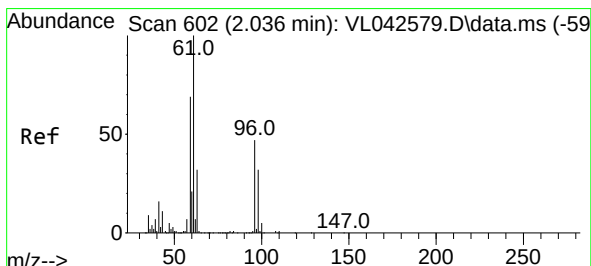
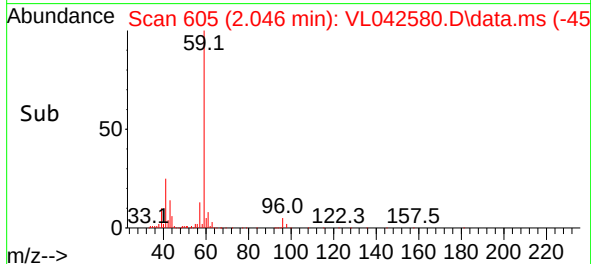
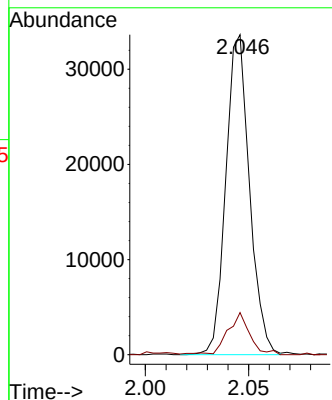
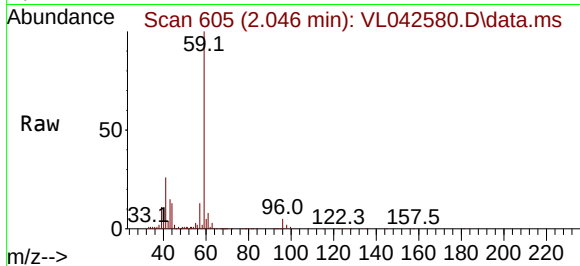
VSTDIC002

Tgt Ion: 59 Resp: 26842

Ion Ratio Lower Upper

59 100

57 12.4 8.6 12.8



#18

1,1-Dichloroethene

Concen: 2.094 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

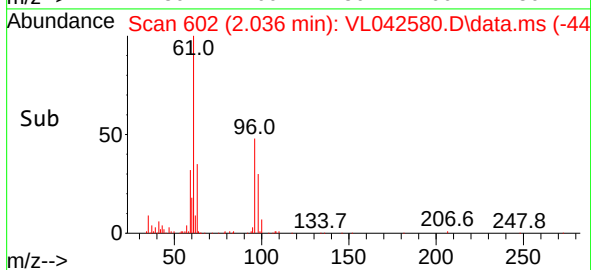
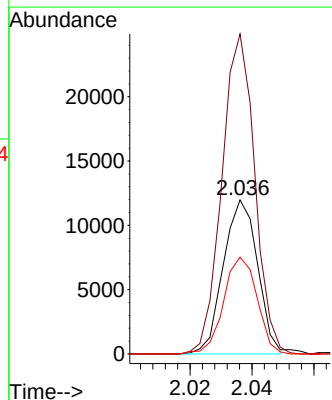
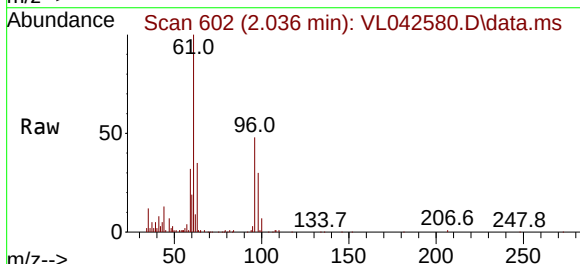
Tgt Ion: 96 Resp: 9179

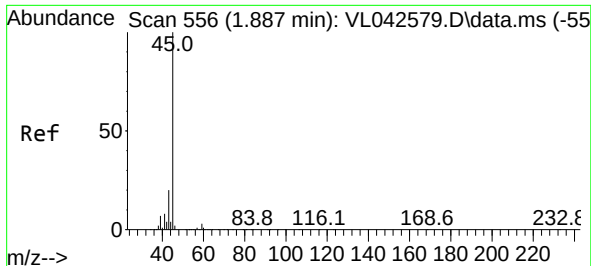
Ion Ratio Lower Upper

96 100

61 207.6 171.1 256.7

98 62.8 54.4 81.6

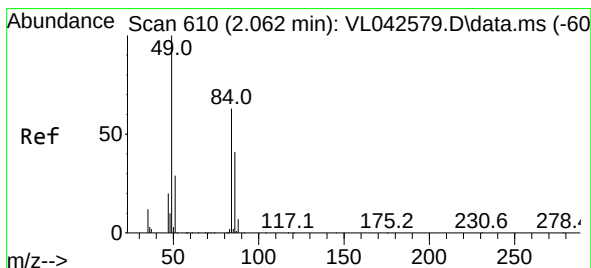
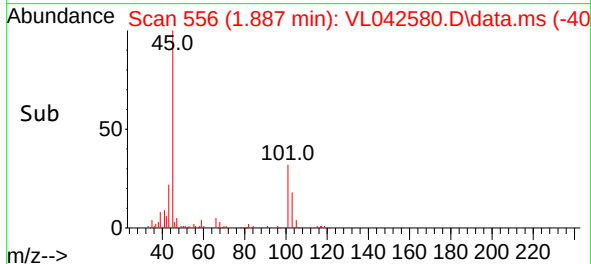
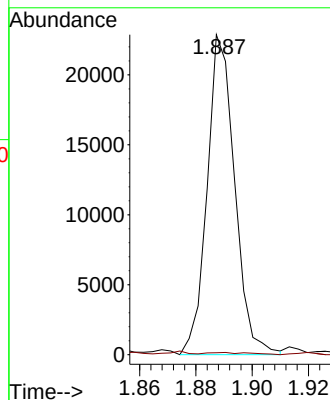
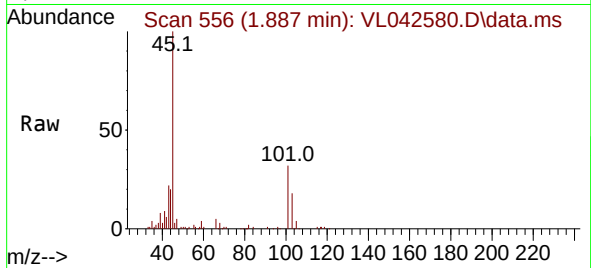




#19
Isopropyl Alcohol
Concen: 2.060 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

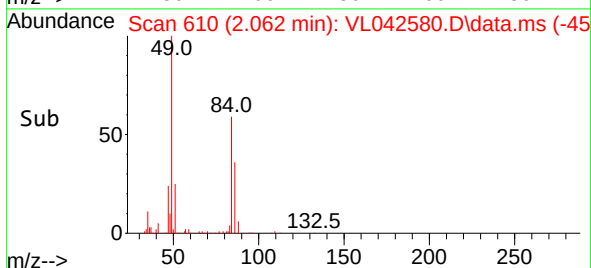
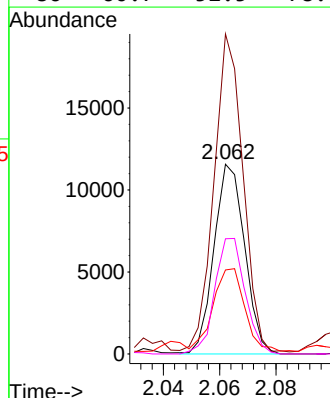
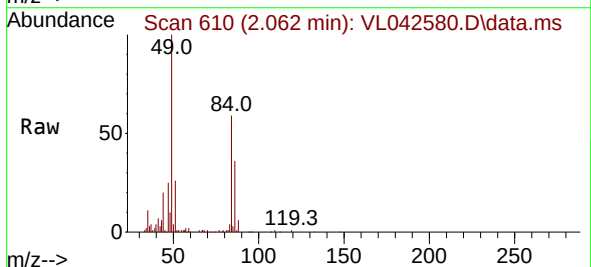
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

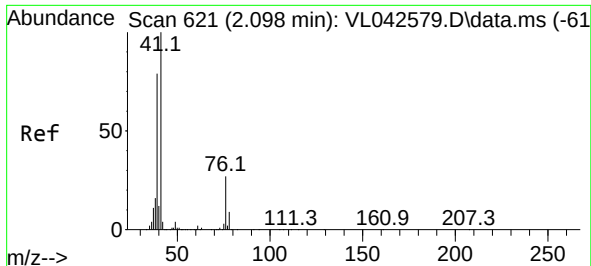
Tgt Ion: 45 Resp: 15567
Ion Ratio Lower Upper
45 100
58 2.7 29.4 44.2#



#20
Methylene Chloride
Concen: 2.101 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 84 Resp: 8763
Ion Ratio Lower Upper
84 100
49 166.9 128.8 193.2
51 42.8 38.6 57.8
86 60.7 52.5 78.7

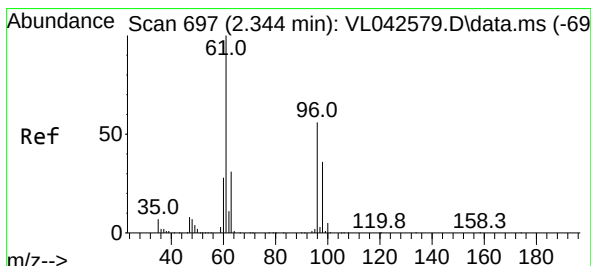
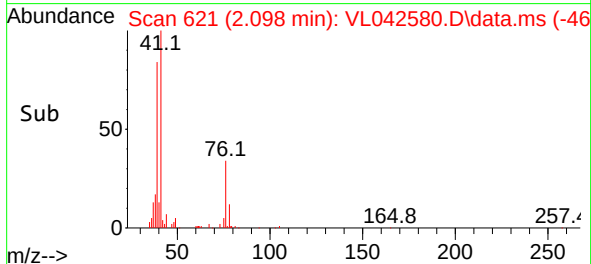
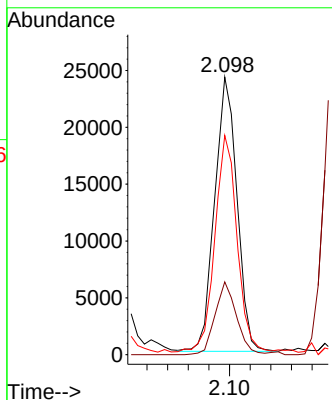
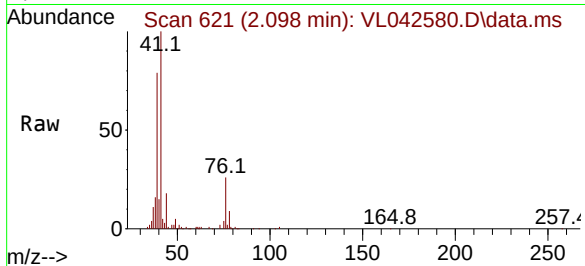




#21
 Allyl Chloride
 Concen: 2.038 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

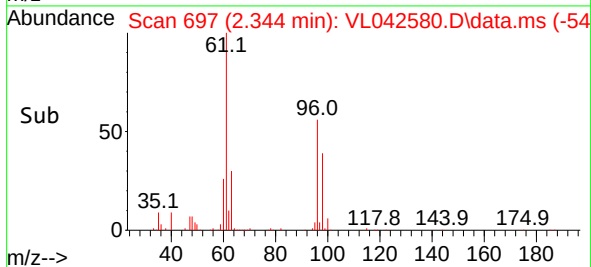
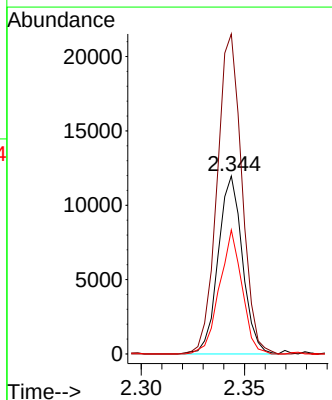
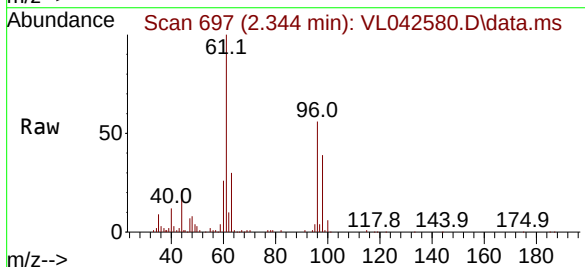
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

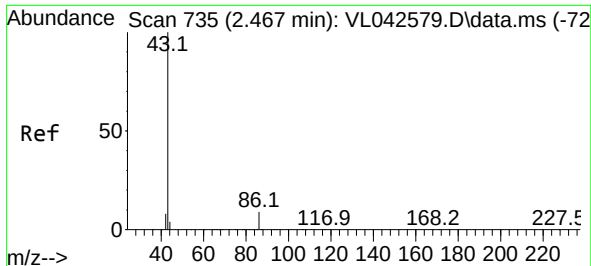
Tgt Ion: 41 Resp: 18178
 Ion Ratio Lower Upper
 41 100
 76 25.3 21.2 31.8
 39 85.4 60.9 91.3



#22
 trans-1,2-Dichloroethene
 Concen: 1.998 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

Tgt Ion: 96 Resp: 9775
 Ion Ratio Lower Upper
 96 100
 61 179.9 142.6 214.0
 98 69.7 51.0 76.4

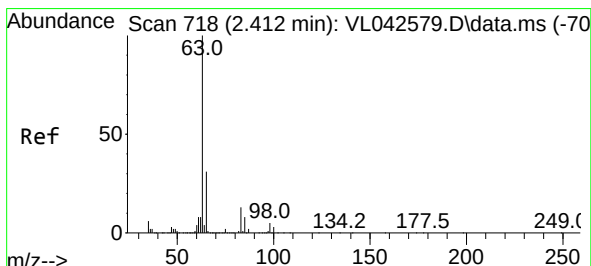
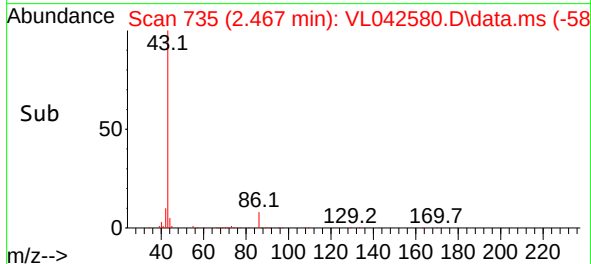
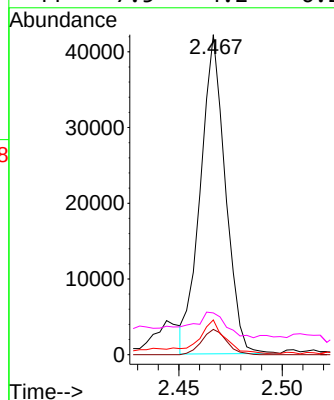
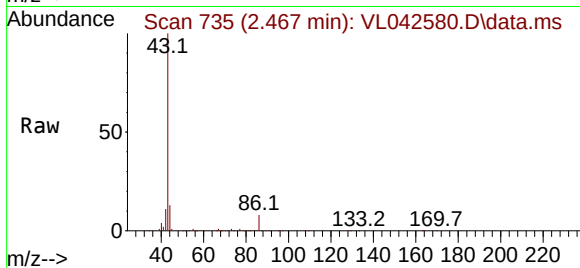




#23
 Vinyl Acetate
 Concen: 2.070 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

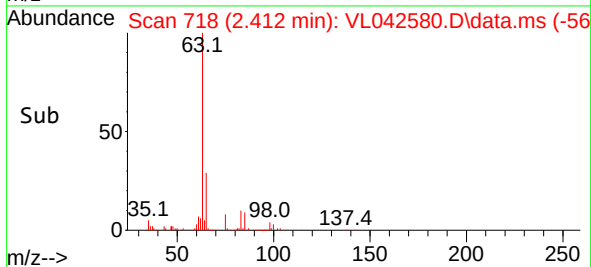
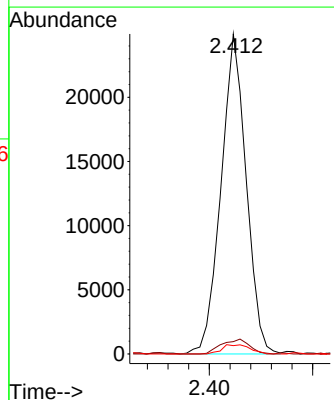
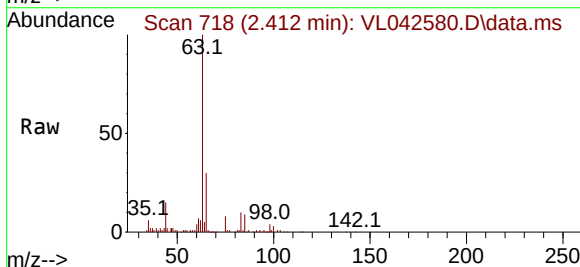
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

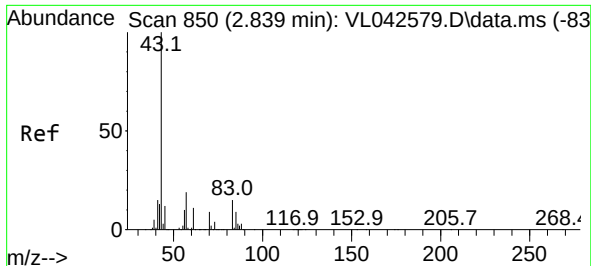
Tgt Ion:	43	Resp:	35373
Ion	Ratio	Lower	Upper
43	100		
86	7.9	6.6	9.8
42	10.5	7.0	10.4#
44	7.5	4.2	6.2#



#24
 1,1-Dichloroethane
 Concen: 2.100 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

Tgt Ion:	63	Resp:	21077
Ion	Ratio	Lower	Upper
63	100		
98	3.9	2.4	7.1
100	2.6	1.4	4.0

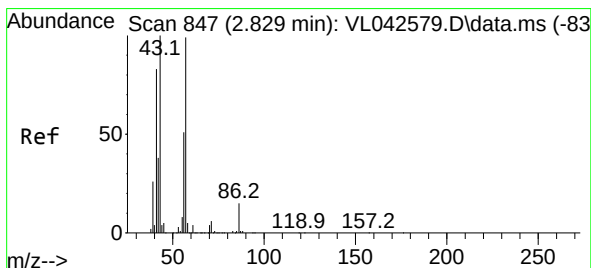
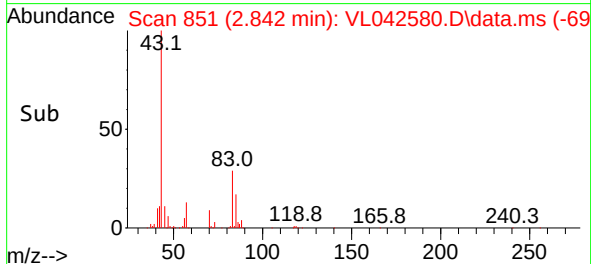
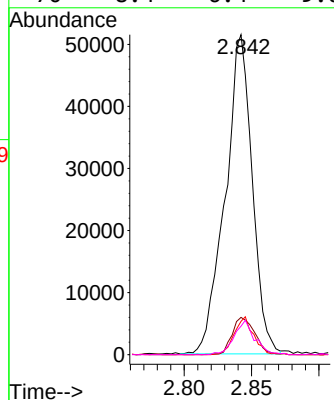
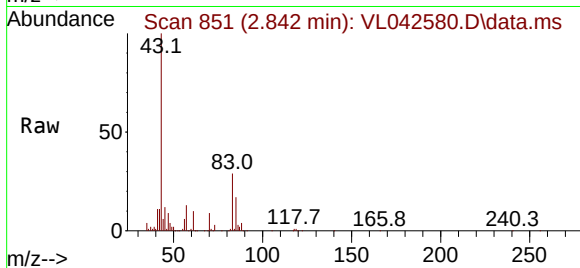




#25
Ethyl Acetate
Concen: 2.070 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

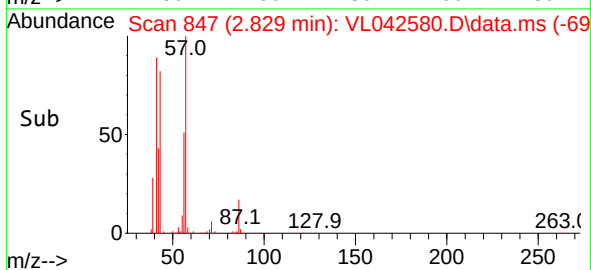
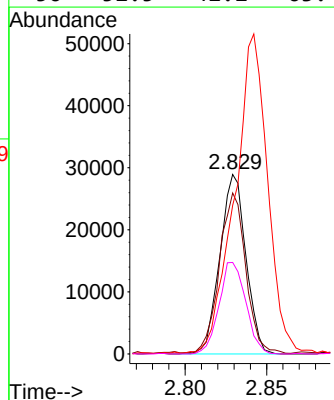
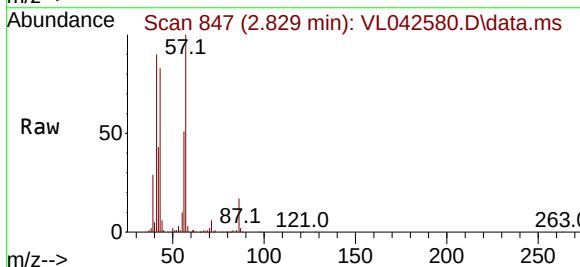
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

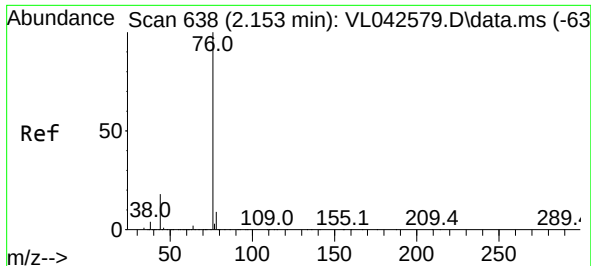
Tgt Ion: 43	Resp: 71613
Ion Ratio	Lower Upper
43 100	
45 9.9	8.2 12.2
61 8.6	7.1 10.7
70 8.4	6.4 9.6



#26
Hexane
Concen: 2.037 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 57	Resp: 32018
Ion Ratio	Lower Upper
57 100	
41 95.0	70.6 106.0
43 228.7	181.1 271.7
56 52.5	42.2 63.4

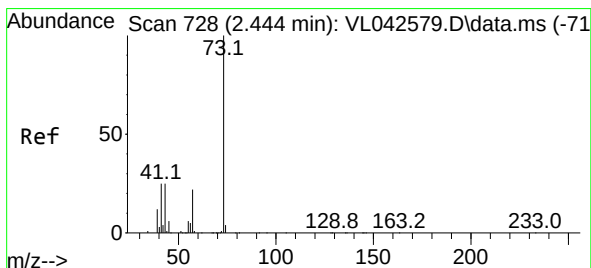
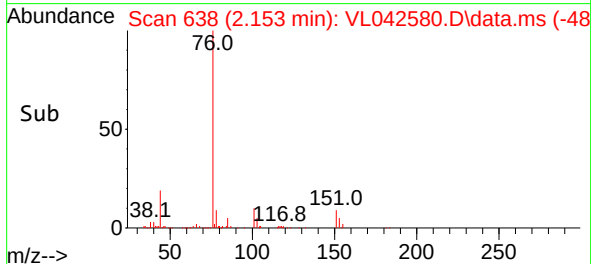
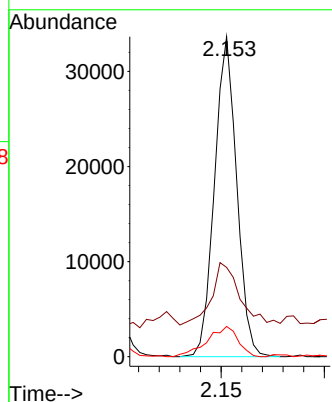
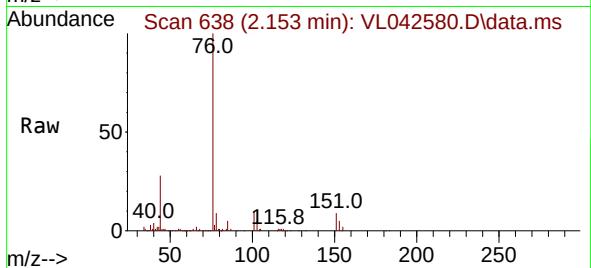




#27
Carbon Disulfide
Concen: 2.084 ppbv
RT: 2.153 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

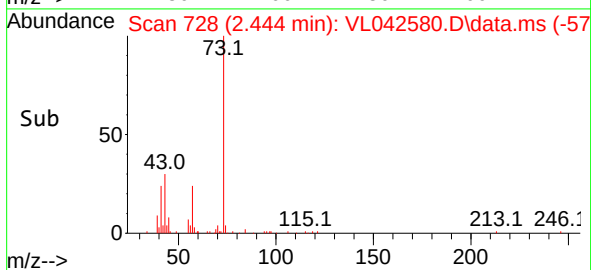
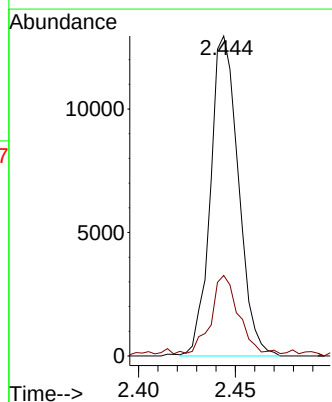
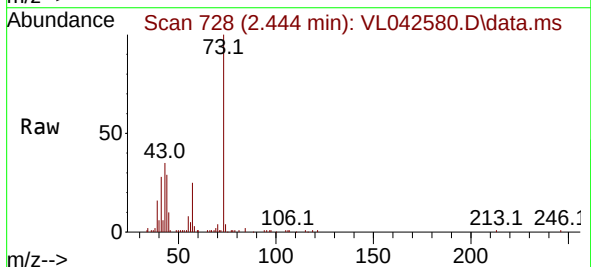
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

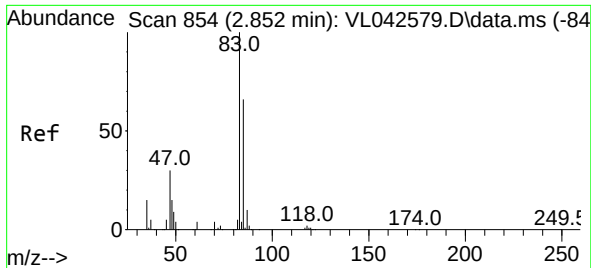
Tgt Ion: 76 Resp: 25143
Ion Ratio Lower Upper
76 100
44 53.4 21.3 31.9#
78 13.6 9.4 14.0



#28
Methyl tert-Butyl Ether
Concen: 2.044 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 73 Resp: 13034
Ion Ratio Lower Upper
73 100
57 30.2 19.9 29.9#

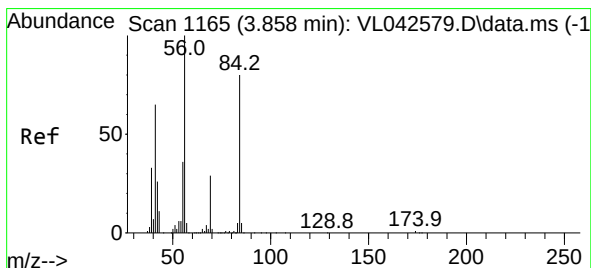
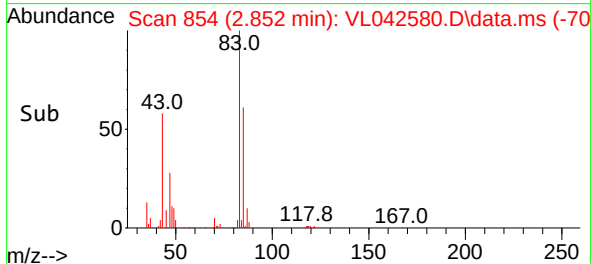
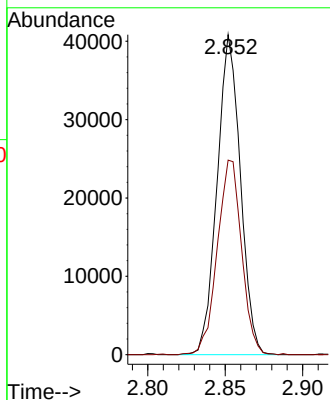
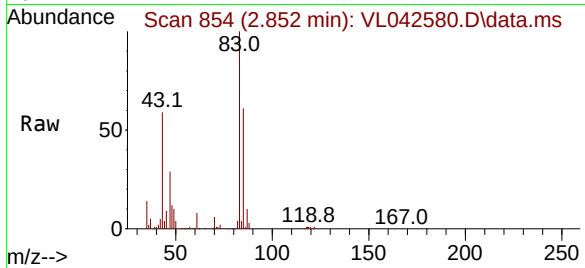




#29
Chloroform
Concen: 2.089 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

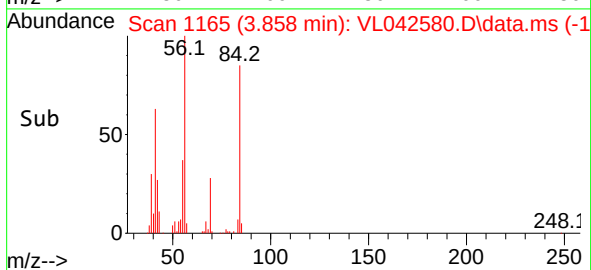
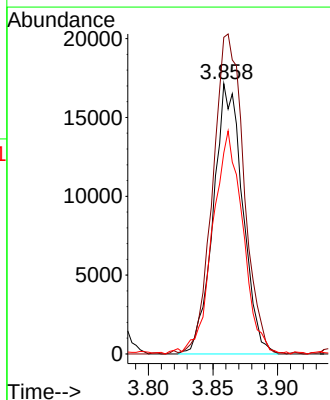
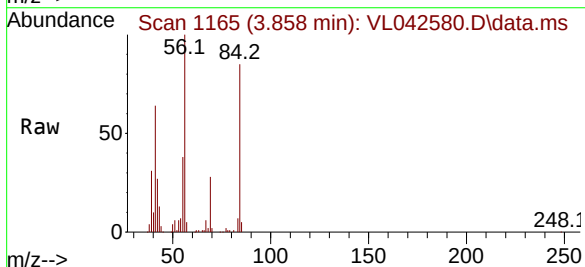
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

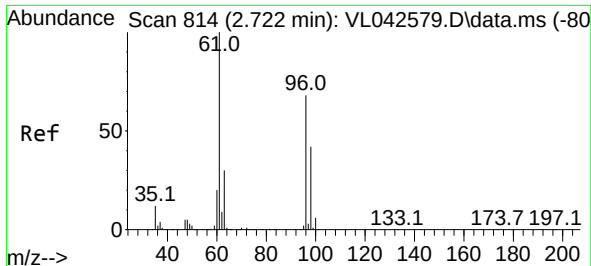
Tgt Ion: 83 Resp: 42693
Ion Ratio Lower Upper
83 100
85 60.8 52.8 79.2



#30
Cyclohexane
Concen: 2.075 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 84 Resp: 27030
Ion Ratio Lower Upper
84 100
56 126.0 103.7 155.5
41 85.5 65.1 97.7

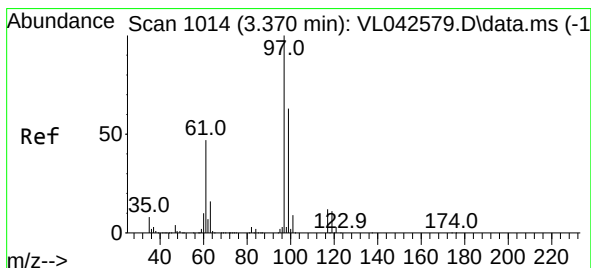
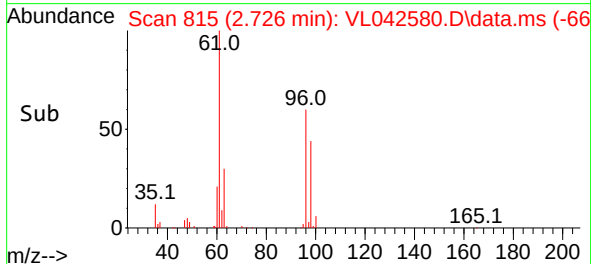
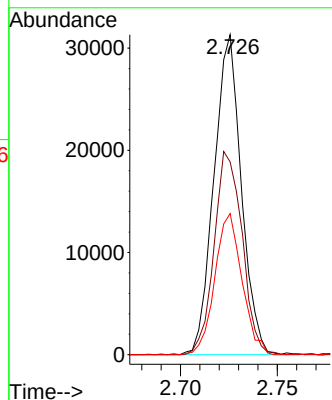
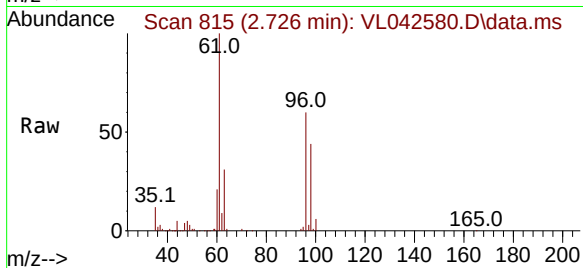




#31
 cis-1,2-Dichloroethene
 Concen: 2.138 ppbv
 RT: 2.726 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

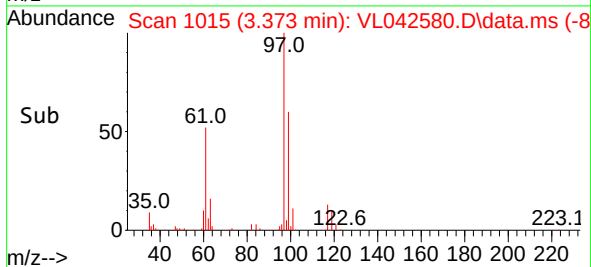
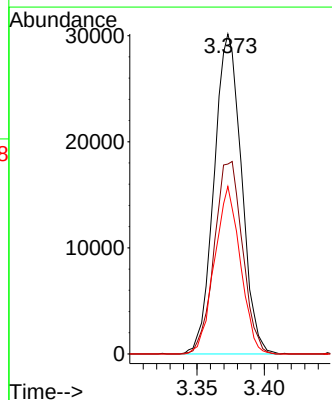
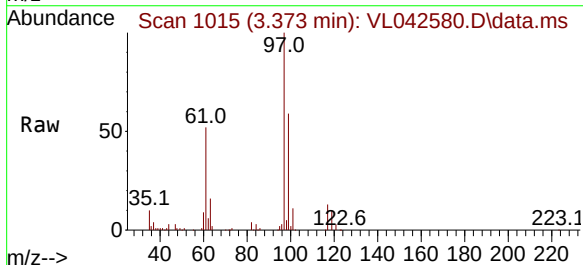
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

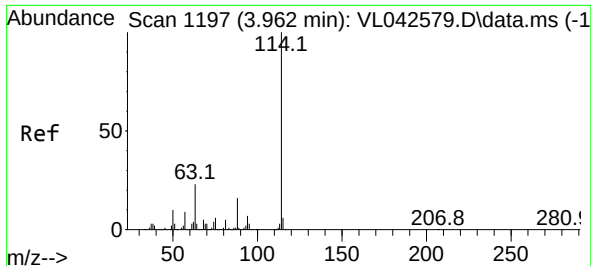
Tgt Ion: 61 Resp: 30737
 Ion Ratio Lower Upper
 61 100
 96 60.3 54.5 81.7
 98 44.1 33.4 50.2



#32
 1,1,1-Trichloroethane
 Concen: 2.077 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.003 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

Tgt Ion: 97 Resp: 42588
 Ion Ratio Lower Upper
 97 100
 99 62.2 51.0 76.6
 61 49.5 39.4 59.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.003 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

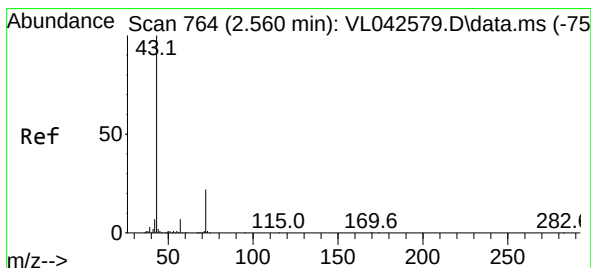
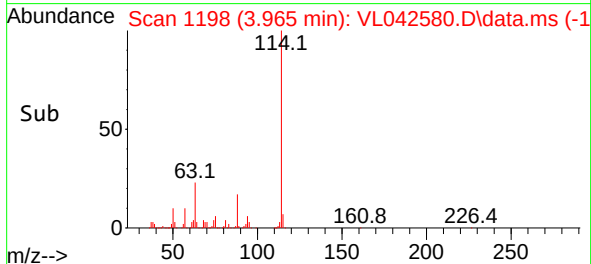
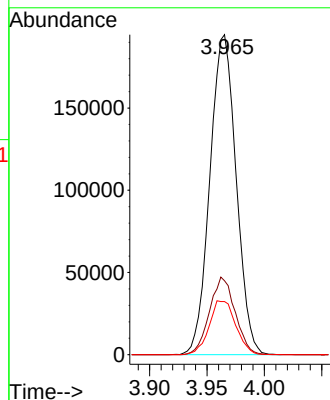
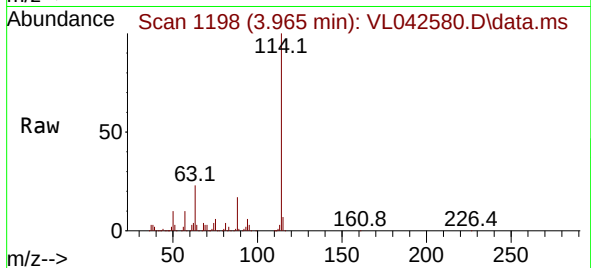
Tgt Ion:114 Resp: 310090

Ion Ratio Lower Upper

114 100

63 23.7 19.0 28.6

88 17.1 13.6 20.4



#34

2-Butanone

Concen: 2.093 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.003 min

Lab File: VL042580.D

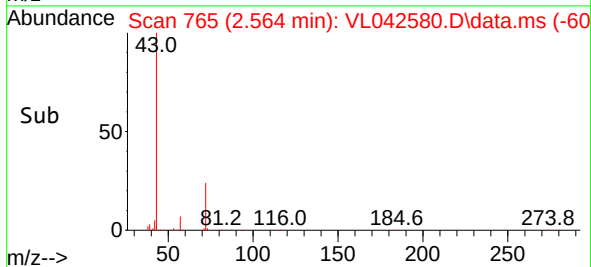
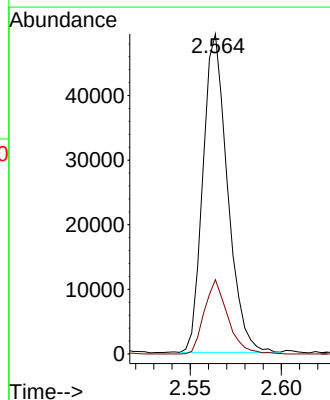
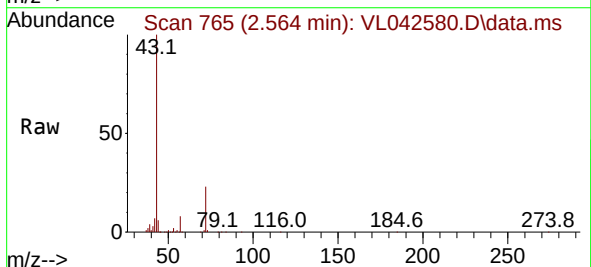
Acq: 29 May 2025 11:43

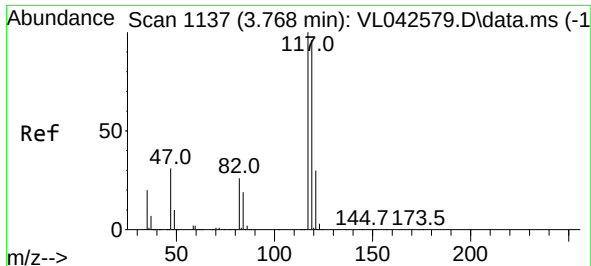
Tgt Ion: 43 Resp: 46279

Ion Ratio Lower Upper

43 100

72 22.3 17.7 26.5

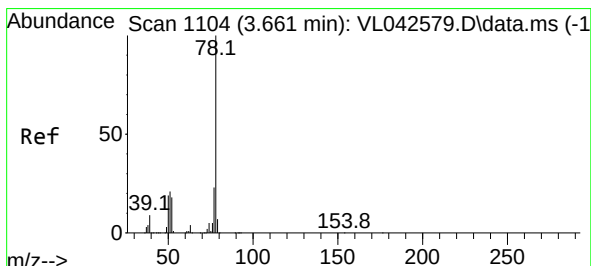
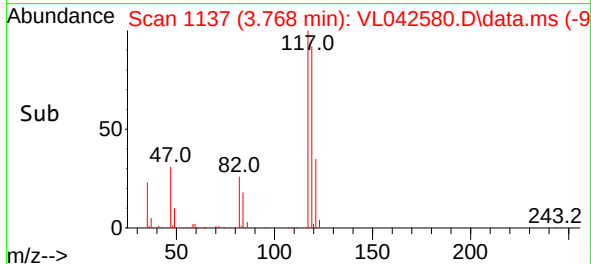
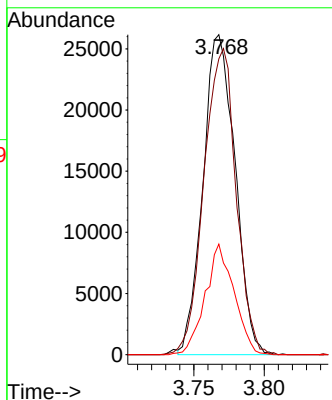
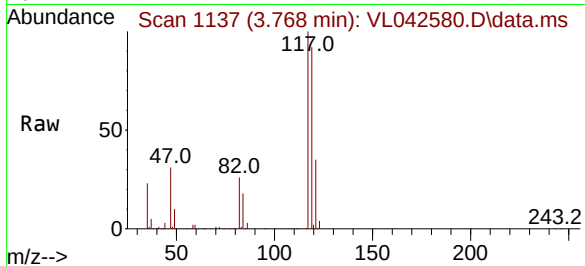




#35
Carbon Tetrachloride
Concen: 2.029 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

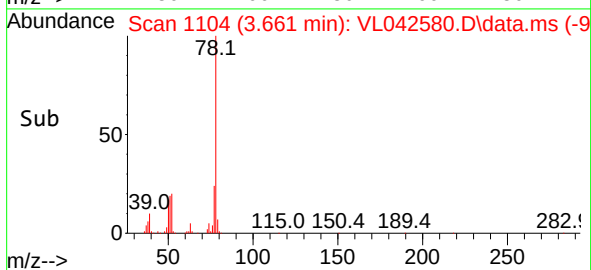
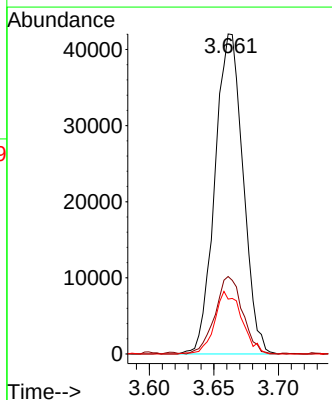
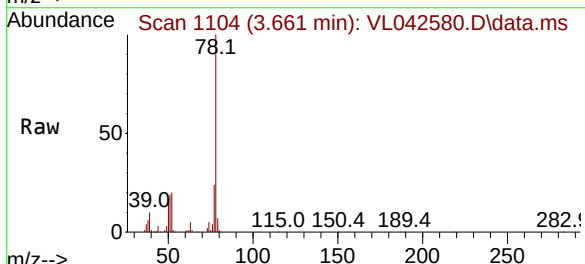
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

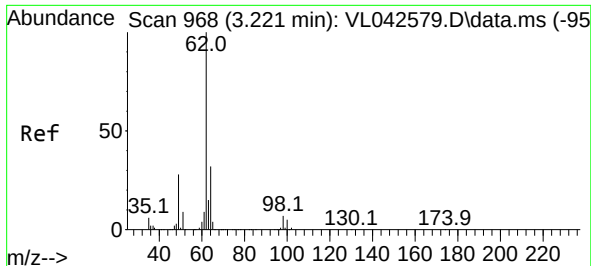
Tgt Ion:117 Resp: 41545
Ion Ratio Lower Upper
117 100
119 92.4 76.8 115.2
121 34.6 24.3 36.5



#36
Benzene
Concen: 2.086 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 78 Resp: 63709
Ion Ratio Lower Upper
78 100
77 24.2 18.2 27.2
50 17.2 15.2 22.8





#37

1,2-Dichloroethane

Concen: 2.097 ppbv

RT: 3.221 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

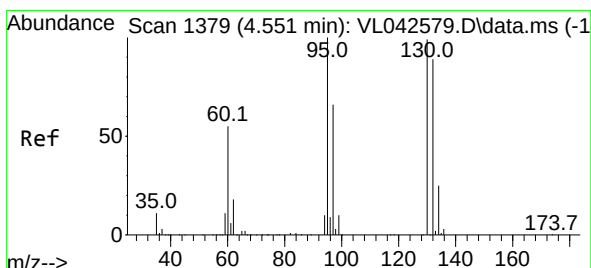
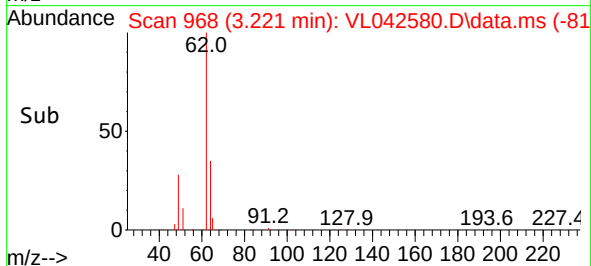
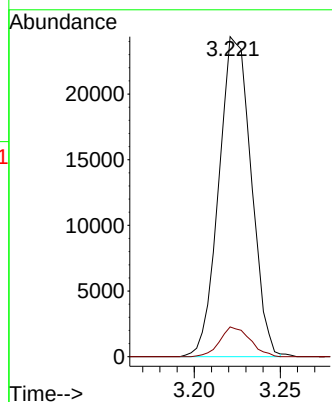
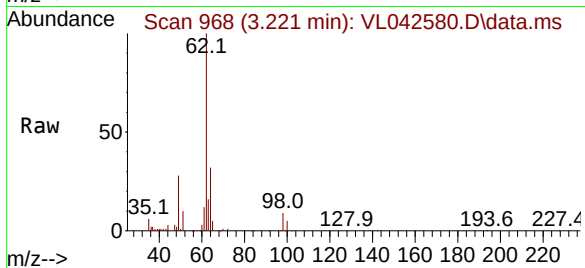
VSTDICC002

Tgt Ion: 62 Resp: 31831

Ion Ratio Lower Upper

62 100

98 8.7 6.1 9.1



#38

Trichloroethene

Concen: 2.075 ppbv

RT: 4.554 min Scan# 1380

Delta R.T. 0.003 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Tgt Ion:130 Resp: 27139

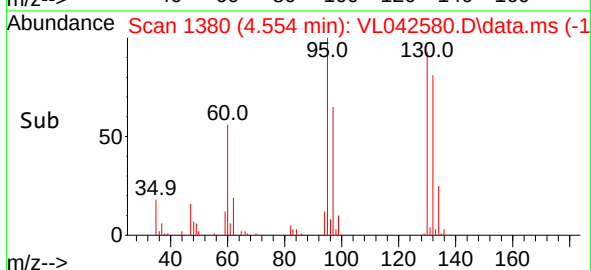
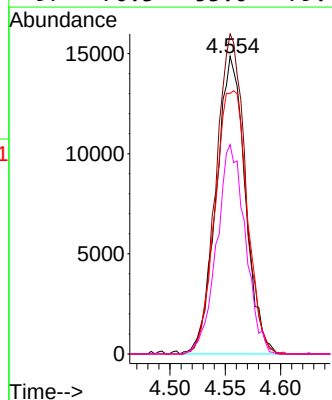
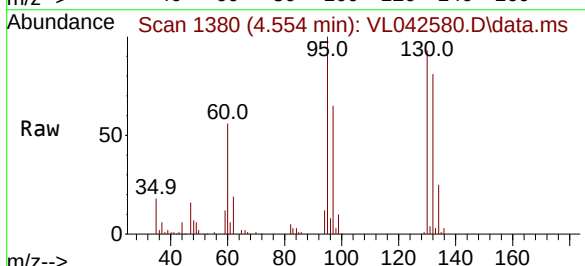
Ion Ratio Lower Upper

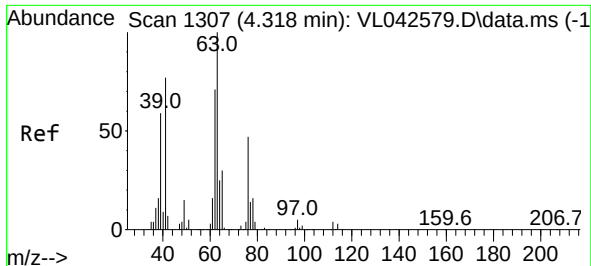
130 100

95 107.5 80.6 121.0

132 87.5 71.8 107.6

97 70.3 53.0 79.4





#39

1,2-Dichloropropane

Concen: 2.050 ppbv

RT: 4.321 min Scan# 1

Delta R.T. 0.003 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

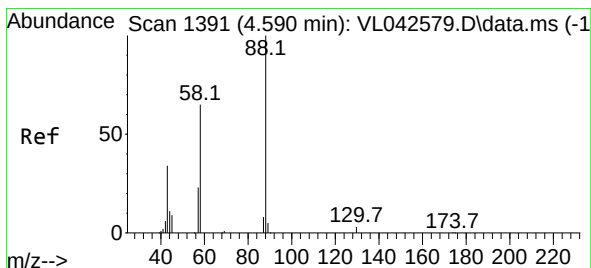
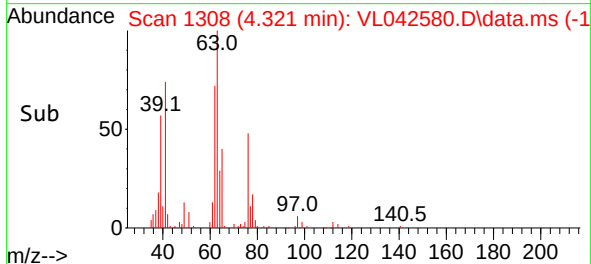
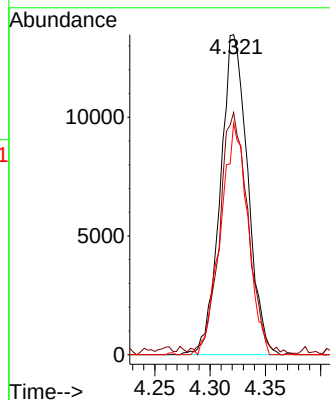
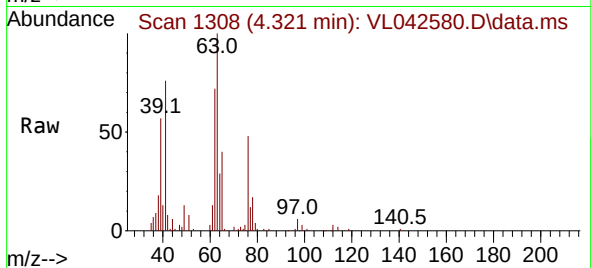
Tgt Ion: 63 Resp: 23145

Ion Ratio Lower Upper

63 100

41 74.8 61.8 92.6

62 72.4 56.6 85.0



#40

1,4-Dioxane

Concen: 0.819 ppbv

RT: 4.596 min Scan# 1393

Delta R.T. 0.007 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Tgt Ion: 88 Resp: 3930

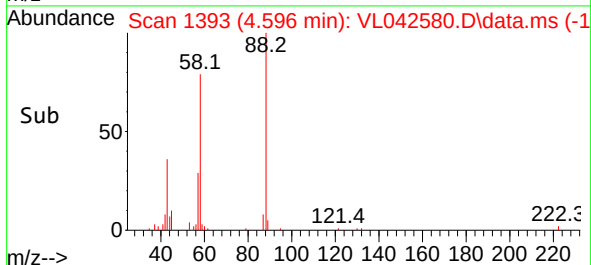
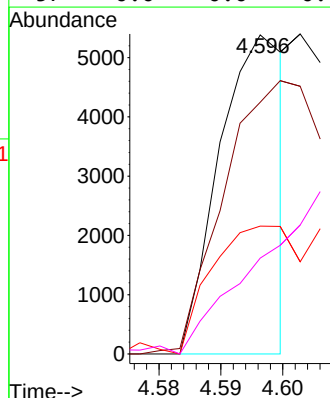
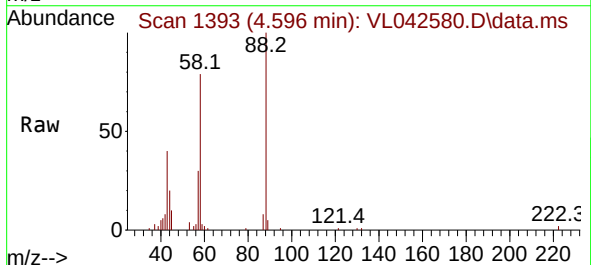
Ion Ratio Lower Upper

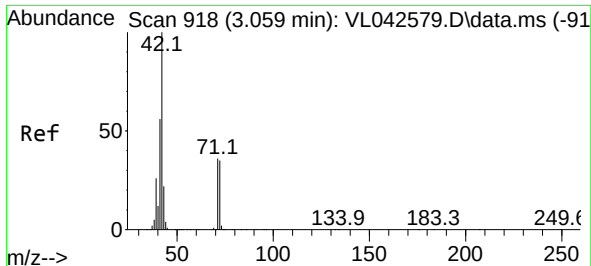
88 100

58 348.0 55.8 83.8#

43 0.0 24.8 37.2#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 2.039 ppbv

RT: 3.062 min Scan# 918

Delta R.T. 0.003 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC002

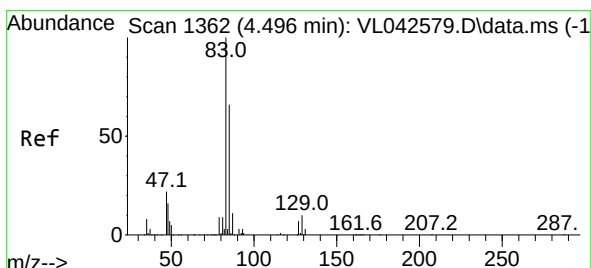
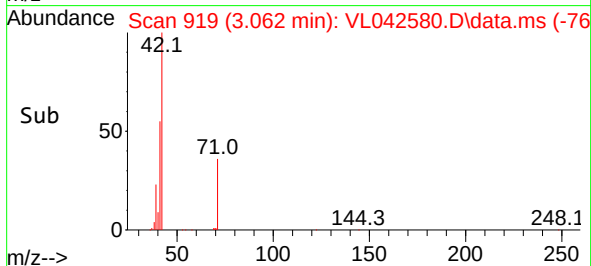
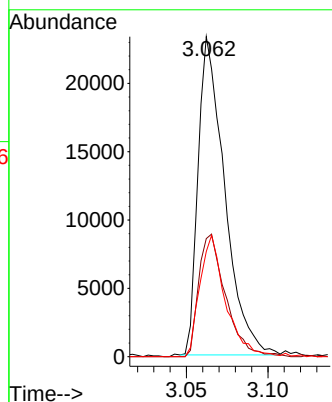
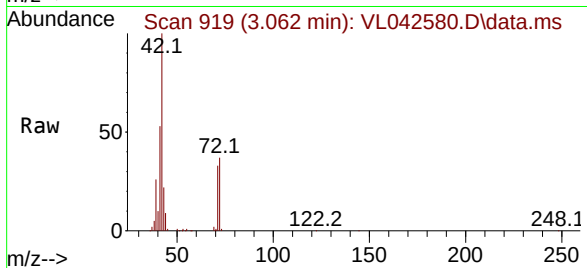
Tgt Ion: 42 Resp: 26391

Ion Ratio Lower Upper

42 100

72 39.2 28.9 43.3

71 37.1 28.5 42.7



#42

Bromodichloromethane

Concen: 2.074 ppbv

RT: 4.496 min Scan# 1362

Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

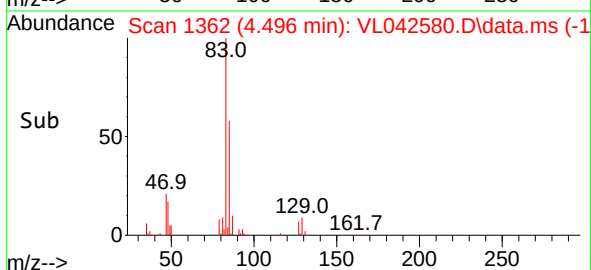
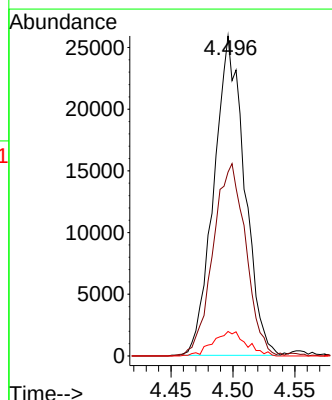
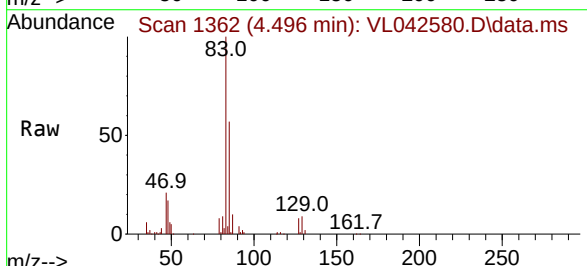
Tgt Ion: 83 Resp: 44705

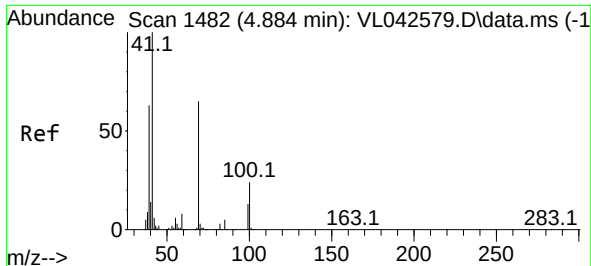
Ion Ratio Lower Upper

83 100

85 57.1 52.7 79.1

127 7.7 5.8 8.6





#43

Methyl Methacrylate

Concen: 1.148 ppbv

RT: 4.888 min Scan# 1483

Delta R.T. 0.003 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

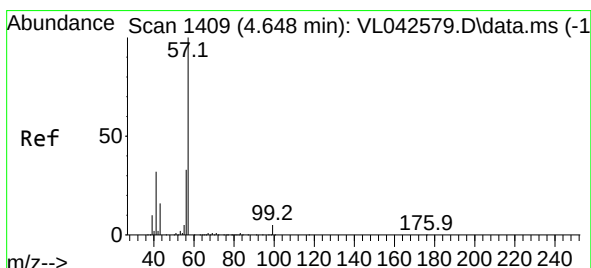
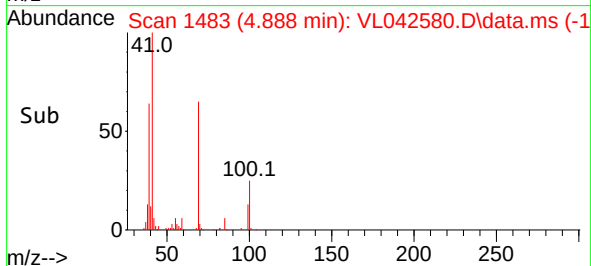
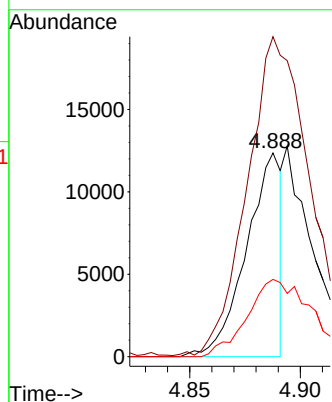
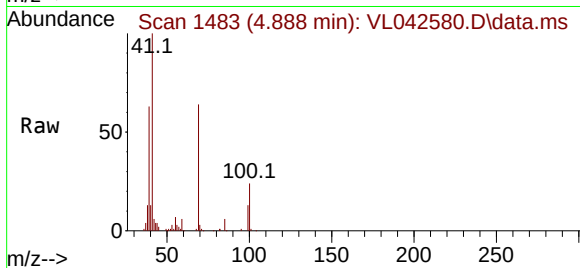
Tgt Ion: 69 Resp: 13583

Ion Ratio Lower Upper

69 100

41 283.6 124.6 187.0#

100 69.7 29.9 44.9#



#44

2,2,4-Trimethylpentane

Concen: 2.097 ppbv

RT: 4.648 min Scan# 1409

Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

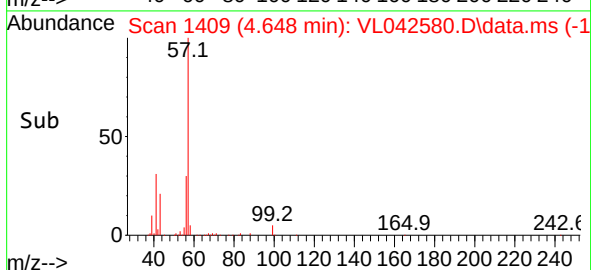
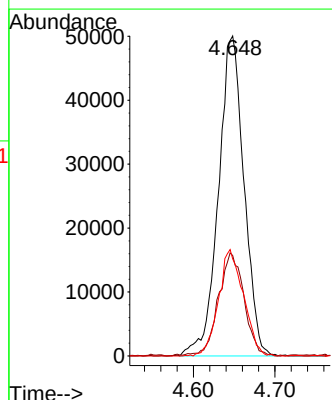
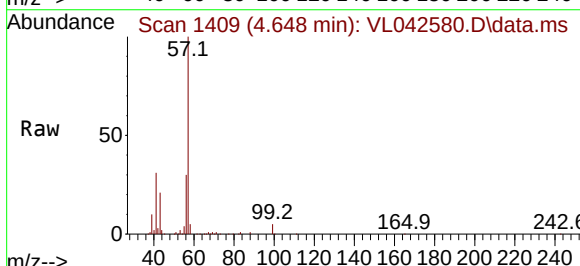
Tgt Ion: 57 Resp: 109446

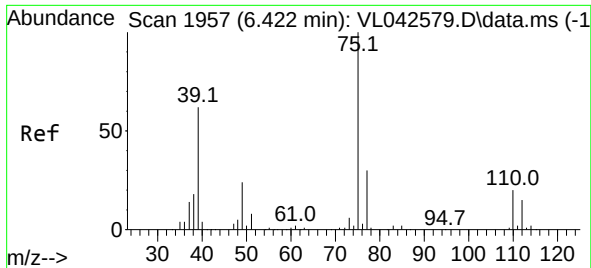
Ion Ratio Lower Upper

57 100

41 32.7 26.1 39.1

56 32.4 25.9 38.9

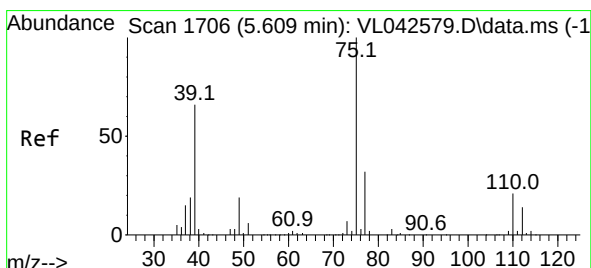
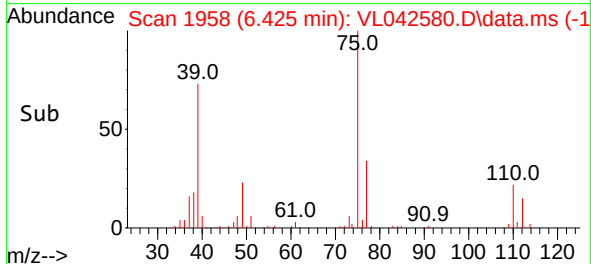
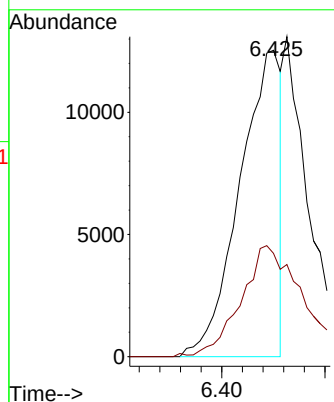
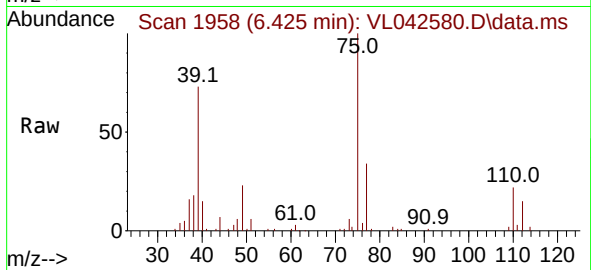




#45
 t-1,3-Dichloropropene
 Concen: 1.281 ppbv
 RT: 6.425 min Scan# 1957
 Delta R.T. 0.003 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

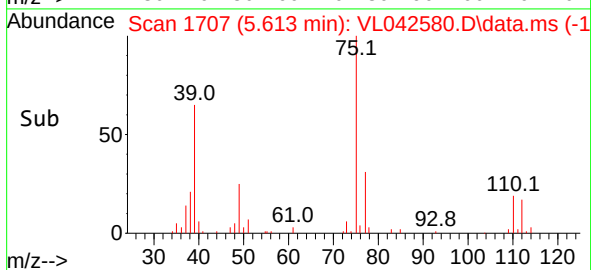
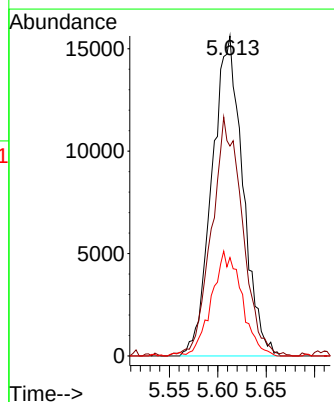
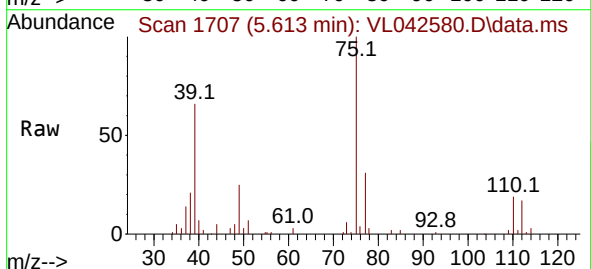
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

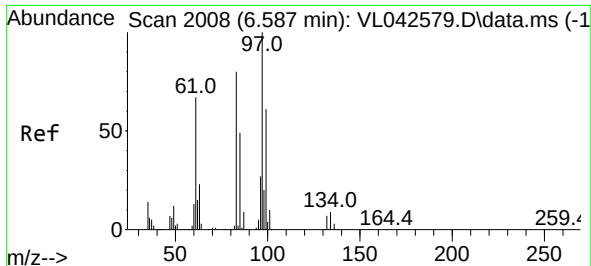
Tgt Ion: 75 Resp: 17372
 Ion Ratio Lower Upper
 75 100
 77 33.7 24.2 36.2



#46
 cis-1,3-Dichloropropene
 Concen: 2.027 ppbv
 RT: 5.613 min Scan# 1707
 Delta R.T. 0.003 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

Tgt Ion: 75 Resp: 34445
 Ion Ratio Lower Upper
 75 100
 39 64.9 52.7 79.1
 77 30.7 25.8 38.8

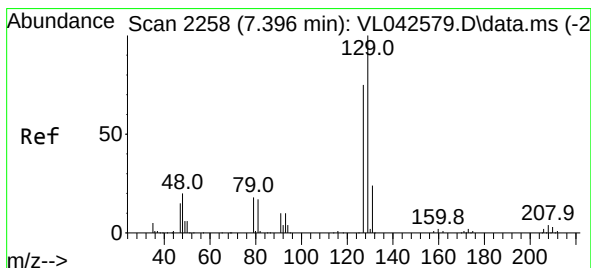
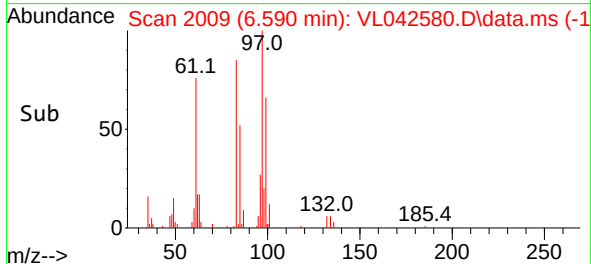
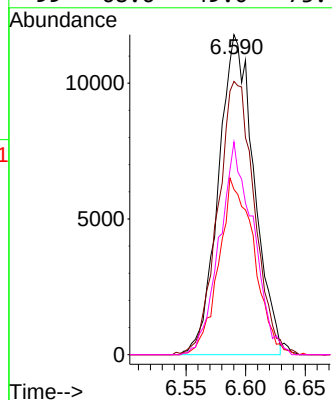
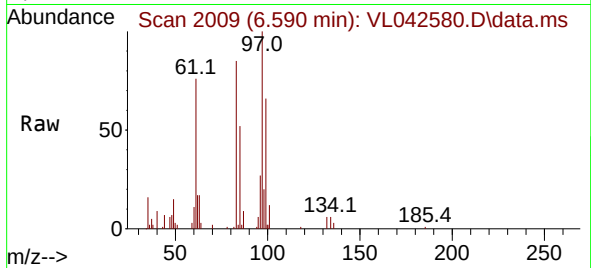




#47
1,1,2-Trichloroethane
Concen: 2.092 ppbv
RT: 6.590 min Scan# 2009
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

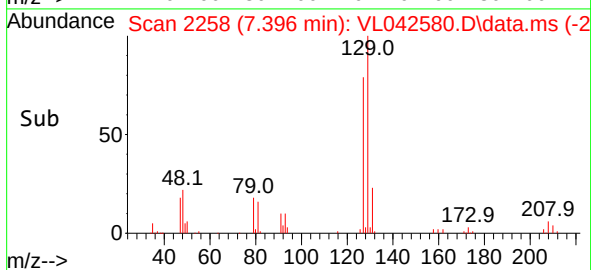
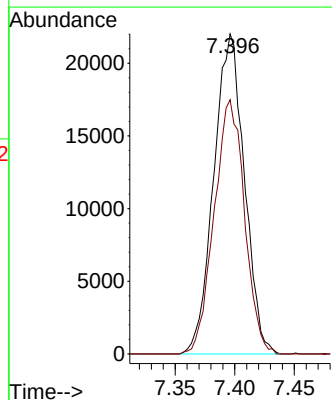
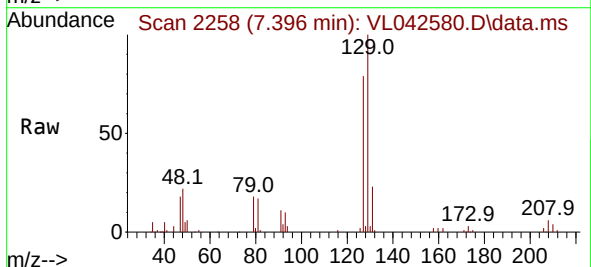
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

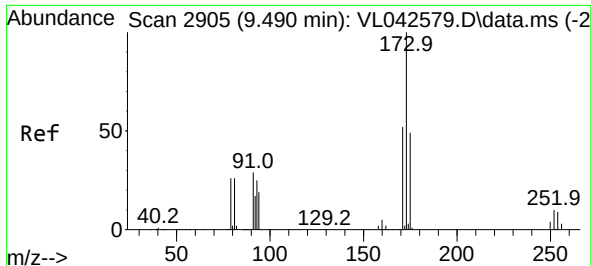
Tgt Ion: 97	Resp: 24455
Ion Ratio	Lower Upper
97 100	
83 84.9	63.9 95.9
85 51.7	39.2 58.8
99 68.6	49.0 73.4



#48
Dibromochloromethane
Concen: 2.103 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 129	Resp: 39361
Ion Ratio	Lower Upper
129 100	
127 78.5	39.0 116.9

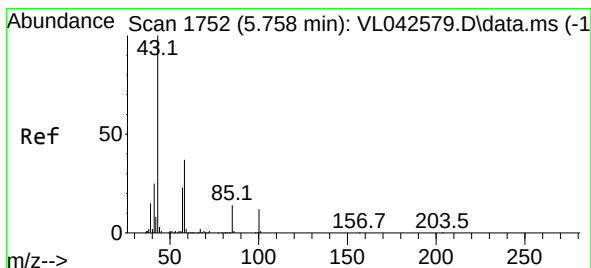
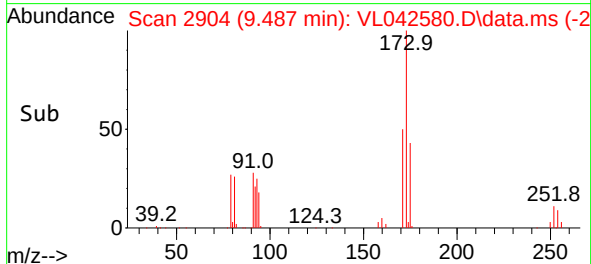
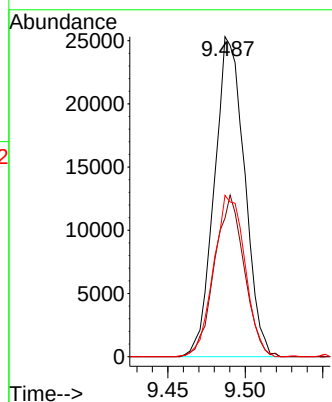
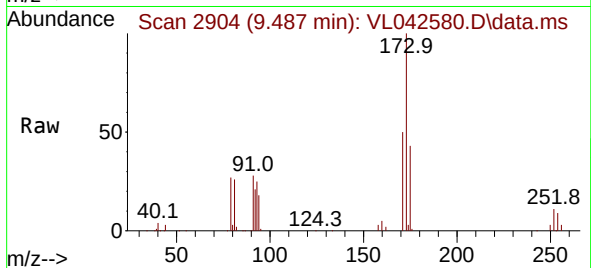




#49
Bromoform
Concen: 2.122 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. -0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

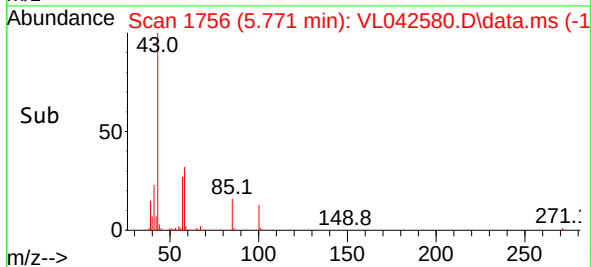
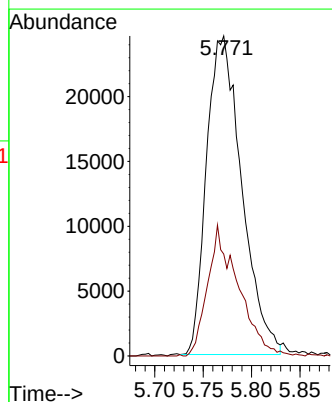
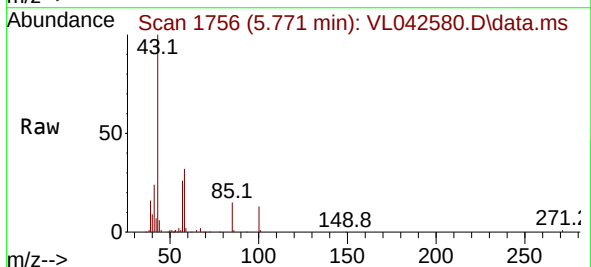
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

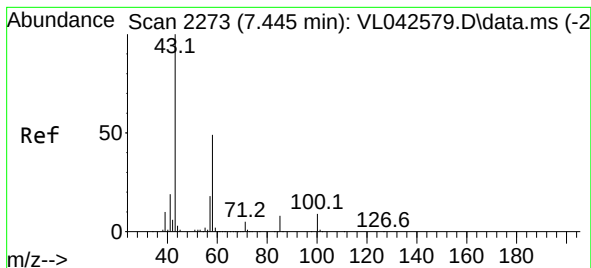
Tgt Ion:173 Resp: 34270
Ion Ratio Lower Upper
173 100
175 49.6 38.7 58.1
171 52.5 41.2 61.8



#50
4-Methyl-2-Pentanone
Concen: 2.018 ppbv
RT: 5.771 min Scan# 1756
Delta R.T. 0.013 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 43 Resp: 62167
Ion Ratio Lower Upper
43 100
58 36.2 28.3 42.5





#51

2-Hexanone

Concen: 2.100 ppbv

RT: 7.451 min Scan# 21

Delta R.T. 0.007 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

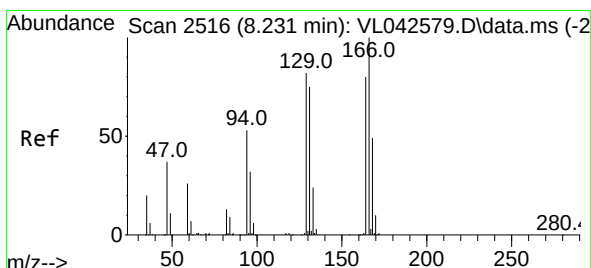
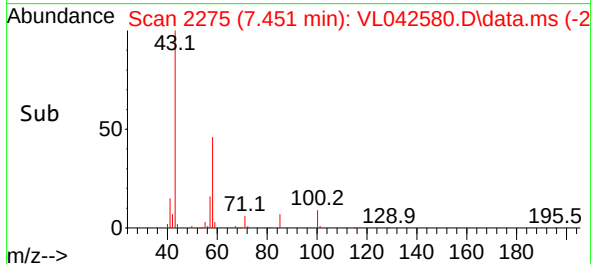
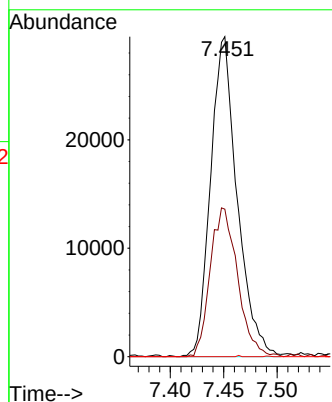
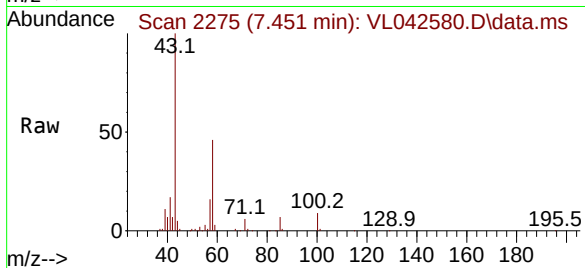
Tgt Ion: 43 Resp: 51074

Ion Ratio Lower Upper

43 100

58 47.9 39.9 59.9

98 0.0 0.1 0.1#



#52

Tetrachloroethene

Concen: 2.121 ppbv

RT: 8.234 min Scan# 2517

Delta R.T. 0.003 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Tgt Ion: 164 Resp: 24205

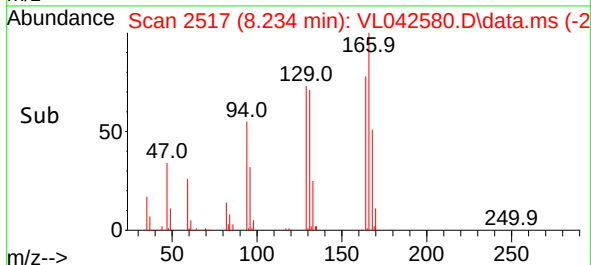
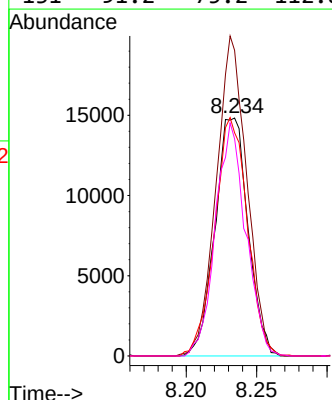
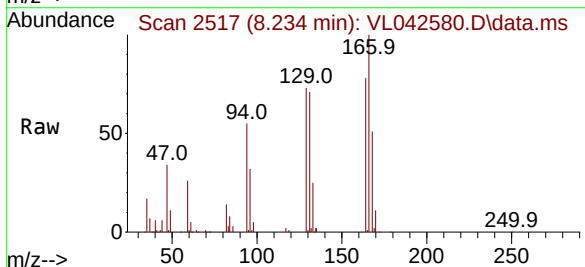
Ion Ratio Lower Upper

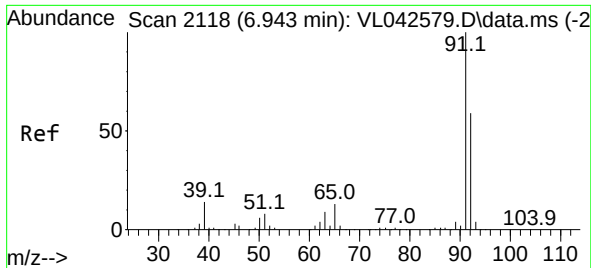
164 100

166 127.9 100.0 150.0

129 93.8 82.2 123.4

131 91.2 75.2 112.8

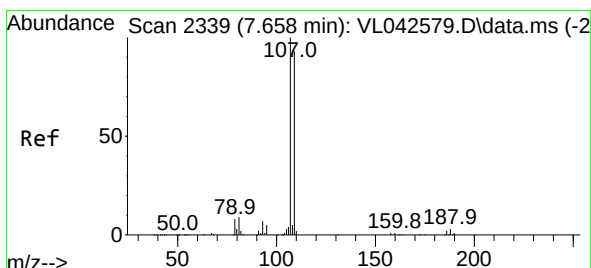
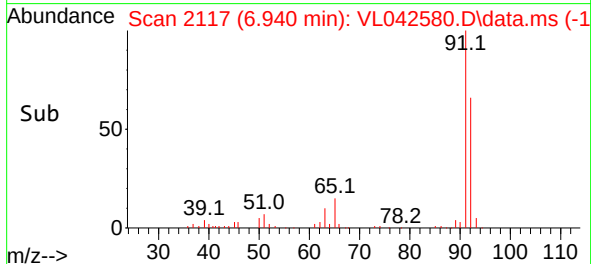
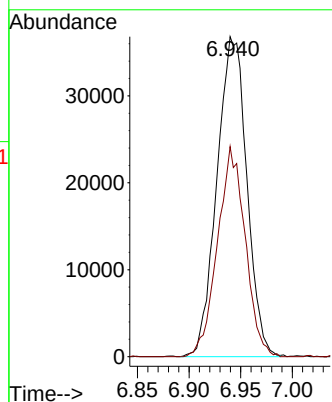
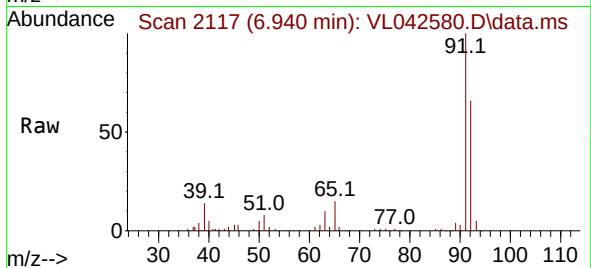




#53
Toluene
Concen: 2.104 ppbv
RT: 6.940 min Scan# 2118
Delta R.T. -0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

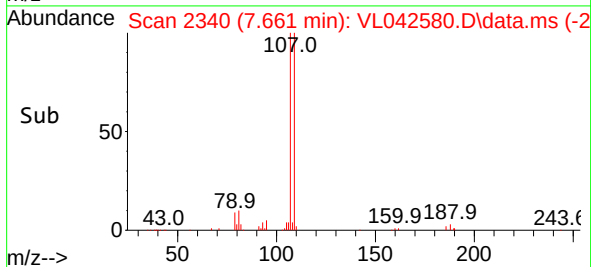
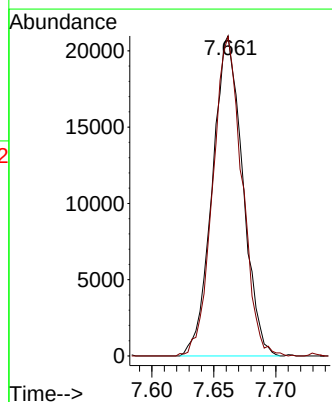
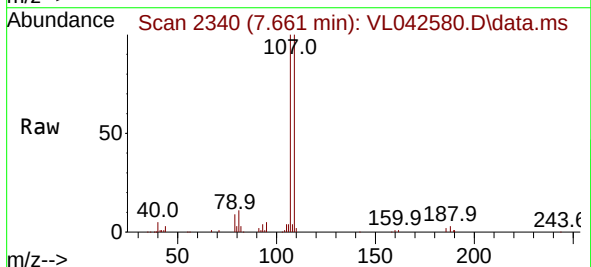
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

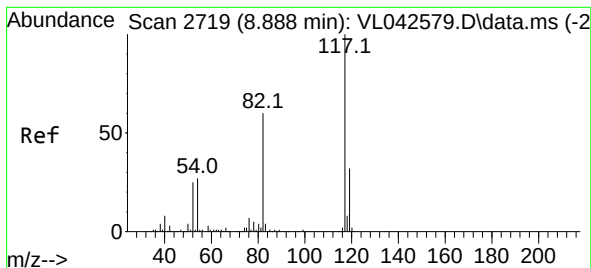
Tgt Ion: 91 Resp: 74240
Ion Ratio Lower Upper
91 100
92 60.9 48.2 72.4



#54
1,2-Dibromoethane
Concen: 2.063 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 107 Resp: 35750
Ion Ratio Lower Upper
107 100
109 99.0 74.3 111.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2719

Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

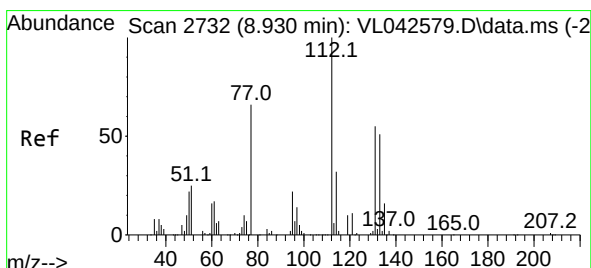
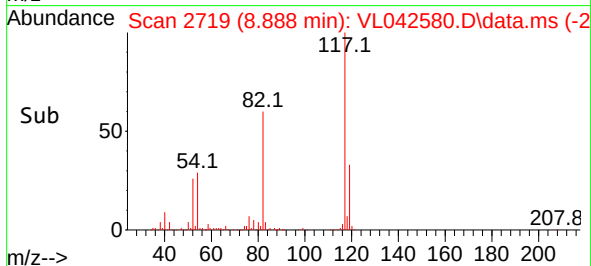
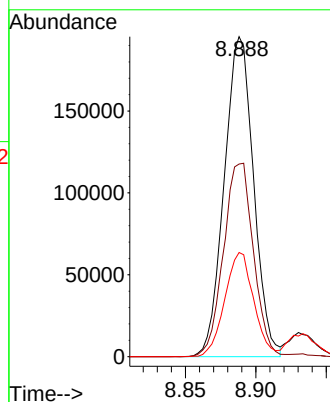
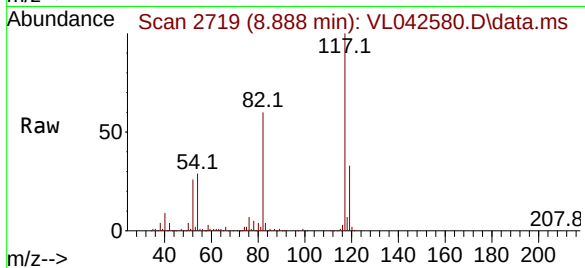
Tgt Ion:117 Resp: 284199

Ion Ratio Lower Upper

117 100

82 62.3 51.2 76.8

119 32.8 26.3 39.5



#56

1,1,1,2-Tetrachloroethane

Concen: 2.101 ppbv

RT: 8.933 min Scan# 2733

Delta R.T. 0.003 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

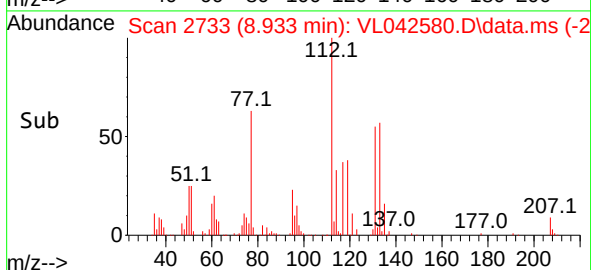
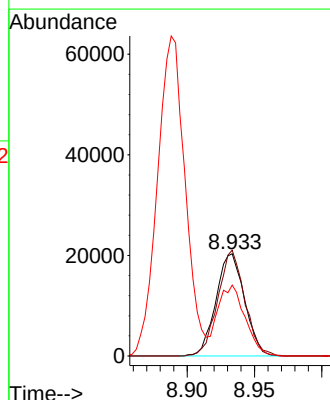
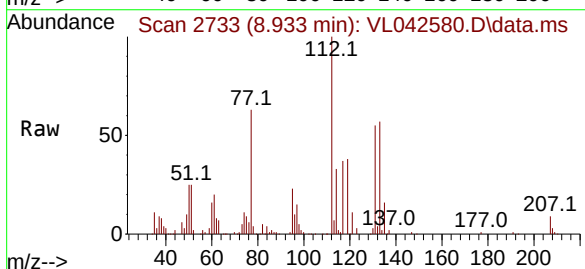
Tgt Ion:131 Resp: 30026

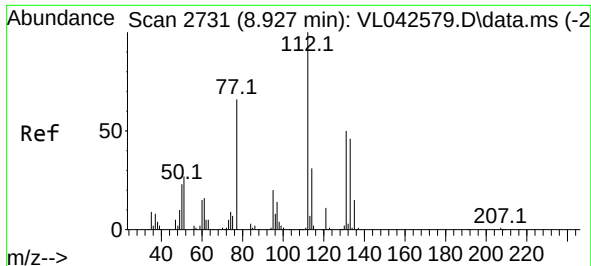
Ion Ratio Lower Upper

131 100

133 97.4 75.0 112.6

119 64.5 50.8 76.2

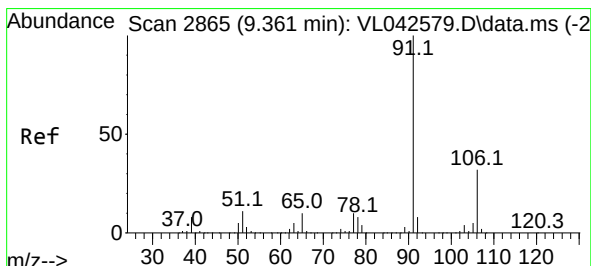
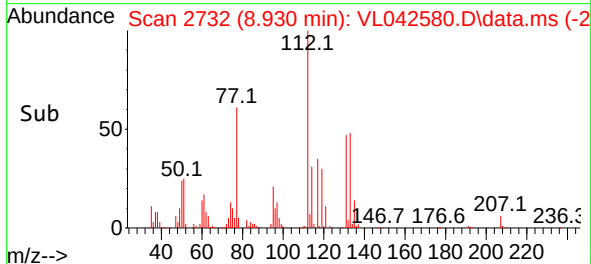
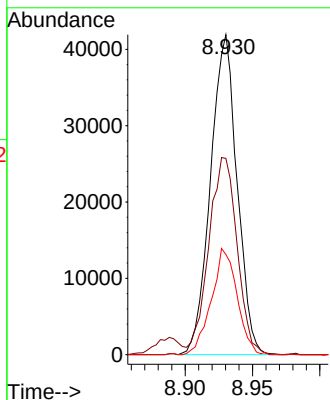
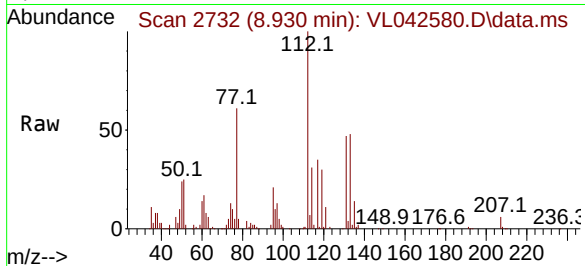




#57
Chlorobenzene
Concen: 2.088 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

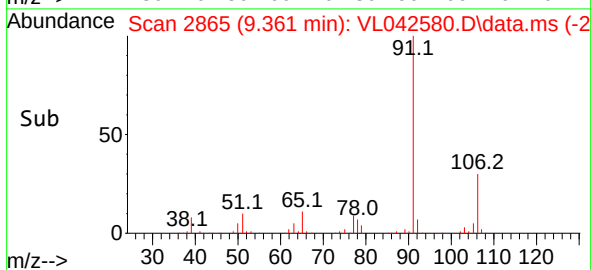
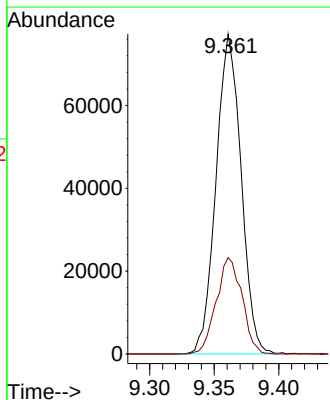
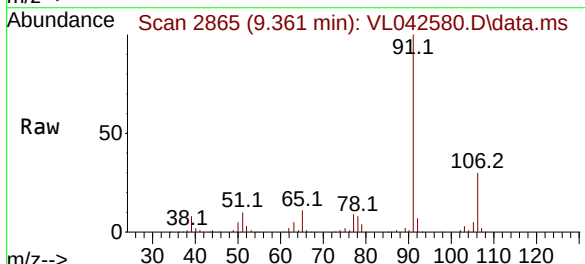
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

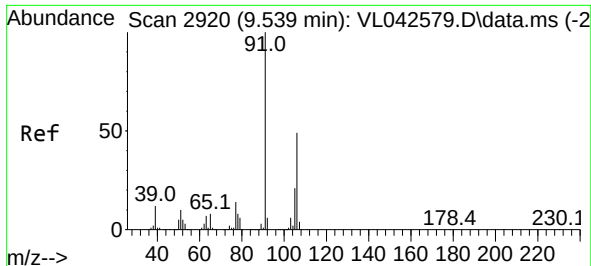
Tgt Ion:112	Resp:	57617
Ion Ratio	Lower	Upper
112	100	
77	61.2	53.5 80.3
114	31.3	27.8 34.0



#58
Ethyl Benzene
Concen: 2.161 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 91	Resp:	104171
Ion Ratio	Lower	Upper
91	100	
106	30.1	25.9 38.9





#59

m/p-Xylene

Concen: 2.309 ppbv

RT: 9.539 min Scan# 2920

Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_1

ClientSampleId :

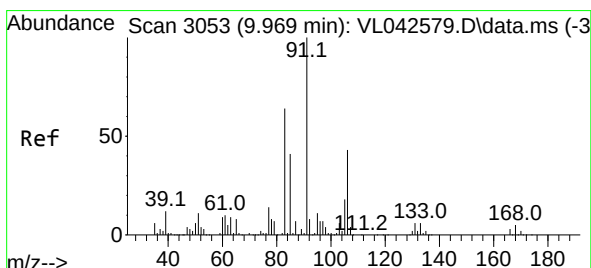
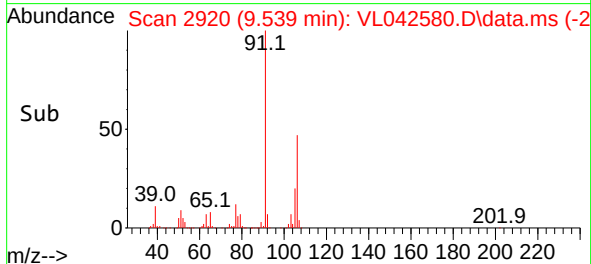
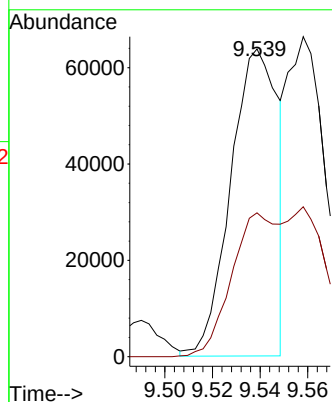
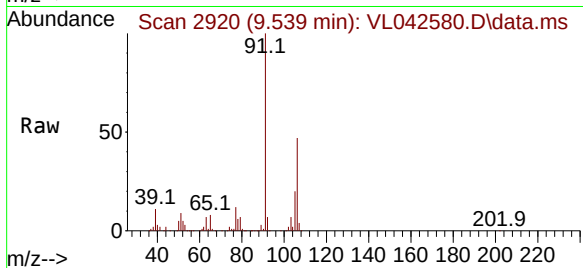
VSTDIC002

Tgt Ion: 91 Resp: 87626

Ion Ratio Lower Upper

91 100

106 0.0 38.8 58.2#



#60

o-Xylene

Concen: 2.164 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. 0.000 min

Lab File: VL042580.D

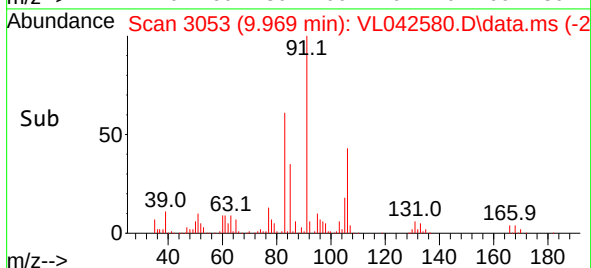
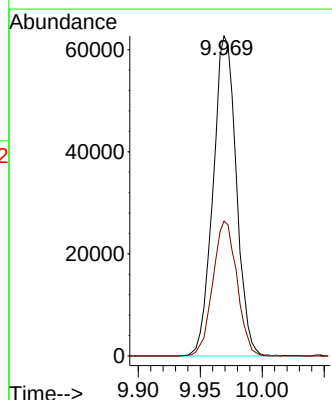
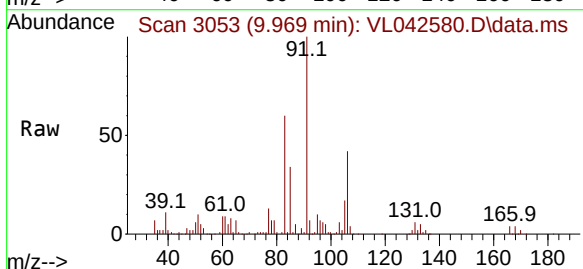
Acq: 29 May 2025 11:43

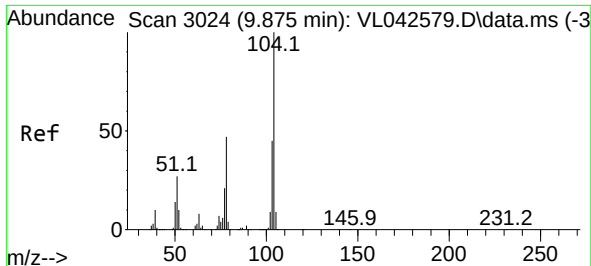
Tgt Ion: 91 Resp: 81886

Ion Ratio Lower Upper

91 100

106 43.6 22.9 68.5

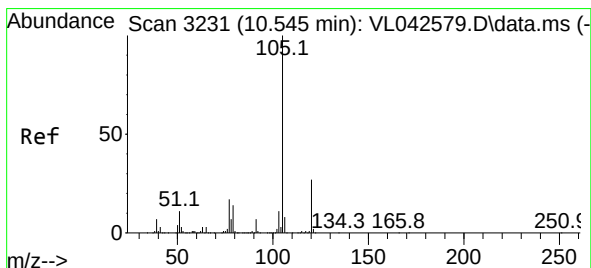
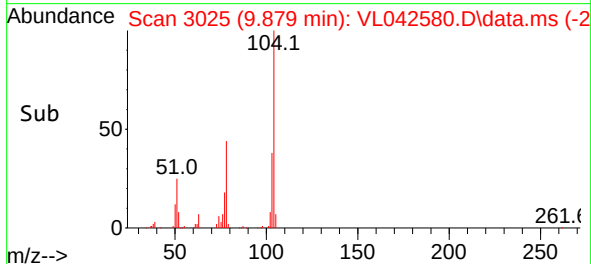
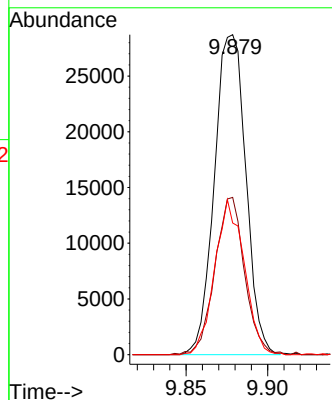
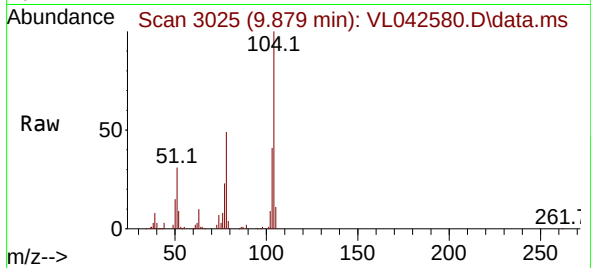




#61
Styrene
Concen: 2.154 ppbv
RT: 9.879 min Scan# 3024
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

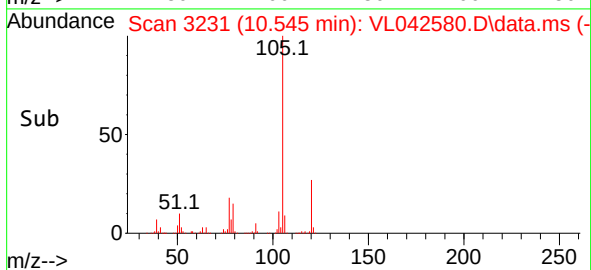
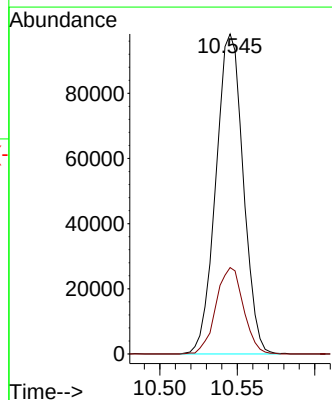
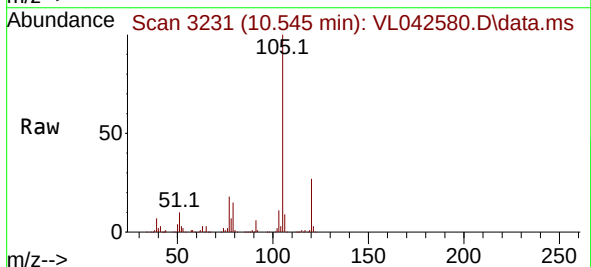
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

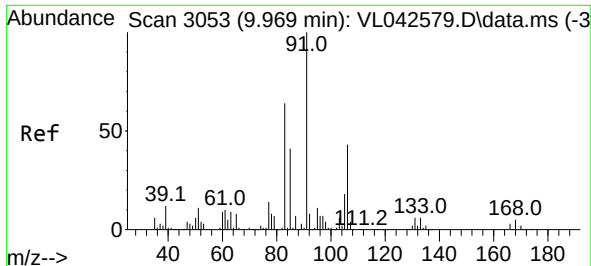
Tgt Ion:104 Resp: 38542
Ion Ratio Lower Upper
104 100
78 46.5 38.2 57.4
103 45.3 36.7 55.1



#62
Isopropylbenzene
Concen: 2.157 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion:105 Resp: 120576
Ion Ratio Lower Upper
105 100
120 27.1 20.9 31.3

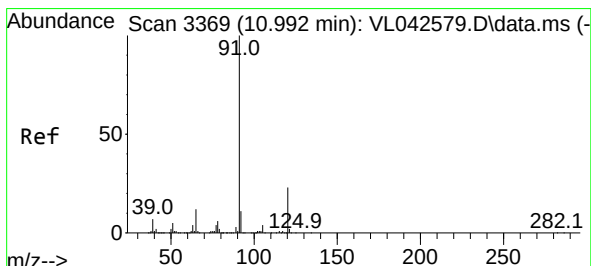
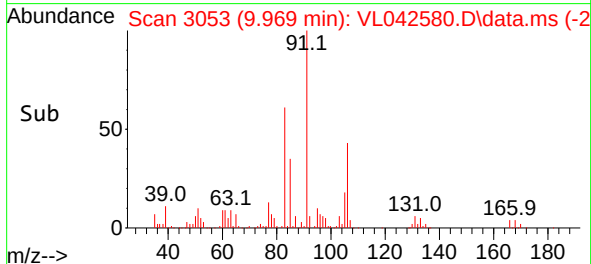
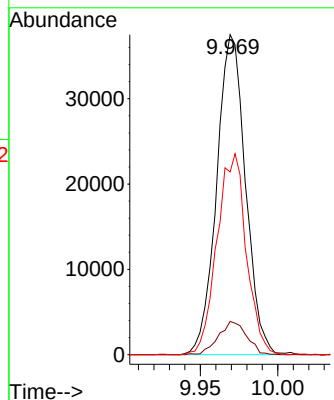
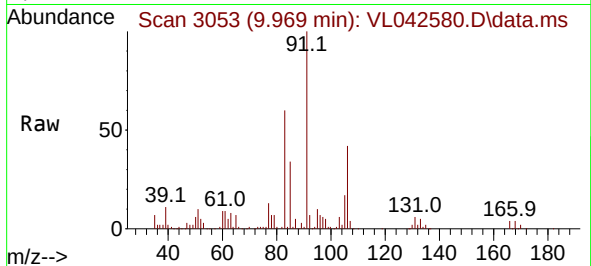




#63
 1,1,2,2-Tetrachloroethane
 Concen: 2.020 ppbv
 RT: 9.969 min Scan# 3053
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

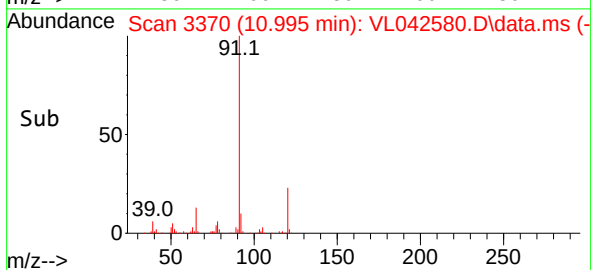
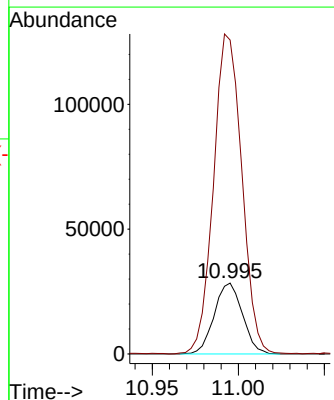
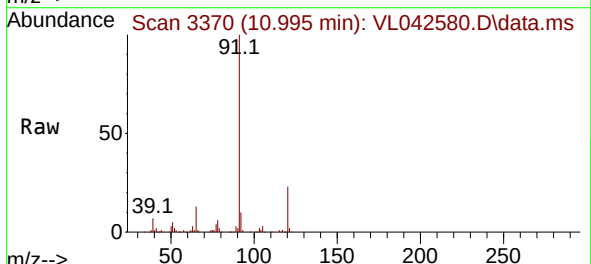
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

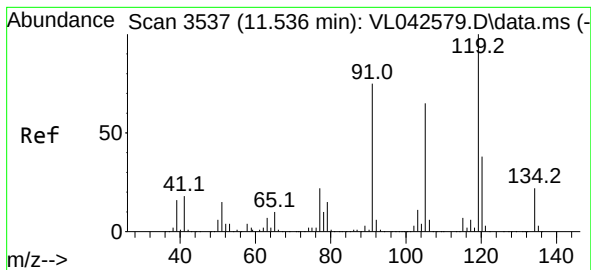
Tgt Ion: 83 Resp: 48590
 Ion Ratio Lower Upper
 83 100
 131 10.2 4.8 14.4
 85 63.8 32.5 97.4



#64
 n-propylbenzene
 Concen: 2.163 ppbv
 RT: 10.995 min Scan# 3370
 Delta R.T. 0.003 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

Tgt Ion: 120 Resp: 32406
 Ion Ratio Lower Upper
 120 100
 91 453.9 363.0 544.6

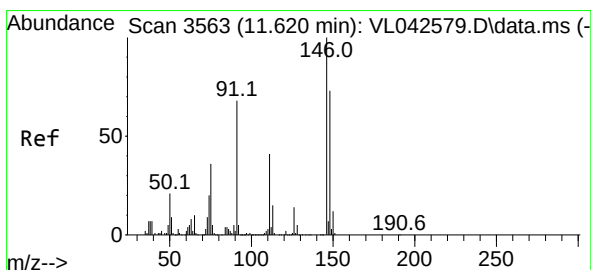
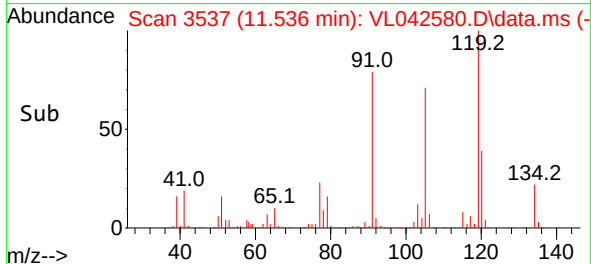
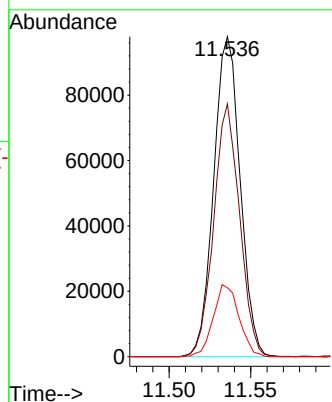
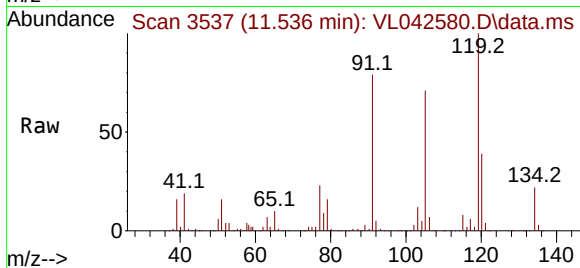




#65
tert-Butylbenzene
Concen: 2.176 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

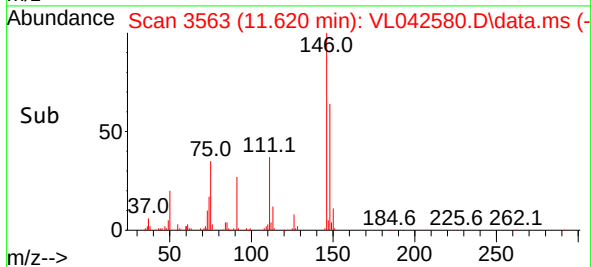
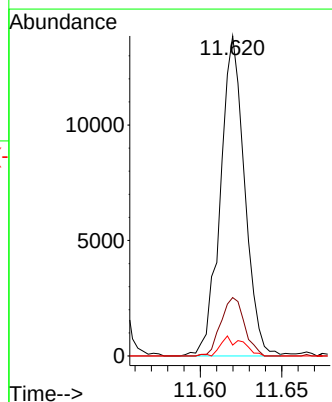
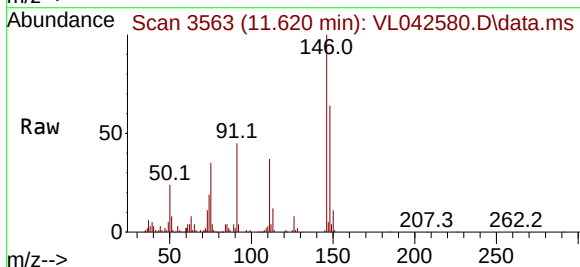
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

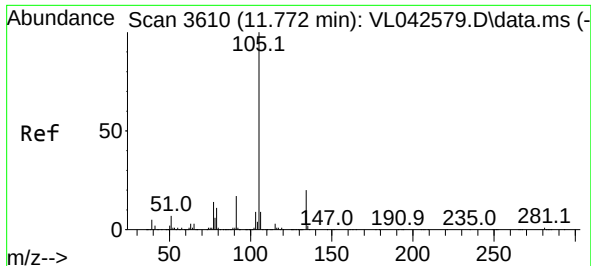
Tgt Ion:119 Resp: 110380
Ion Ratio Lower Upper
119 100
91 77.2 61.1 91.7
134 21.9 17.4 26.2



#66
Benzyl Chloride
Concen: 2.190 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 91 Resp: 14327
Ion Ratio Lower Upper
91 100
126 17.8 15.1 22.7
128 5.7 5.0 7.6

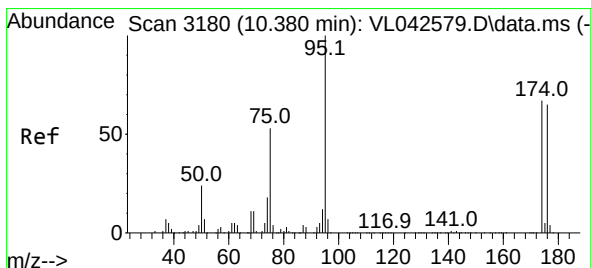
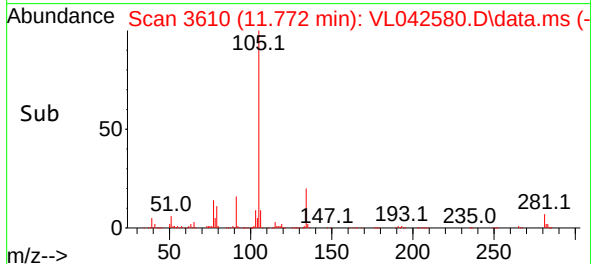
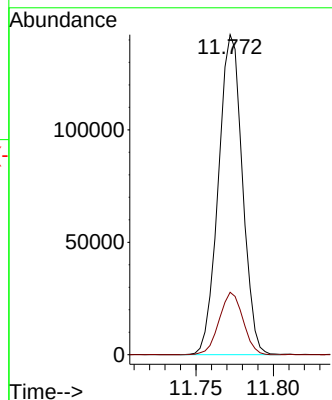
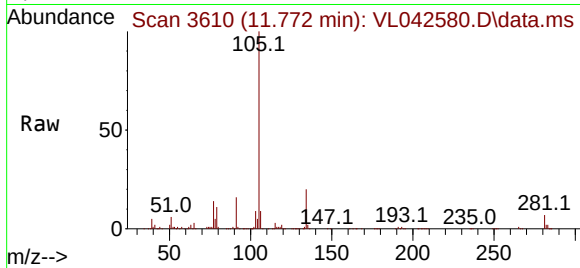




#67
 sec-Butylbenzene
 Concen: 2.151 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

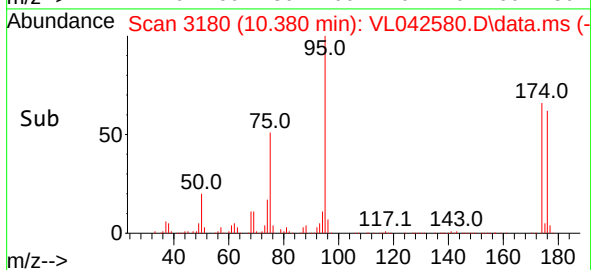
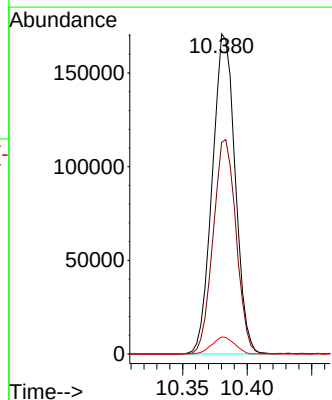
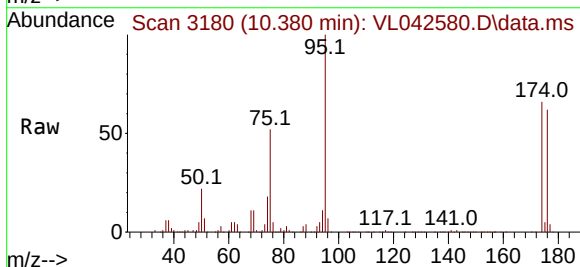
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

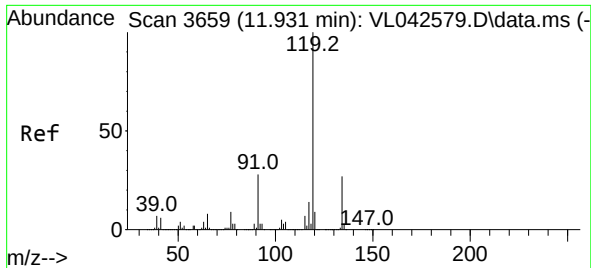
Tgt Ion:105 Resp: 153401
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.8 23.6



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.881 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.000 min
 Lab File: VL042580.D
 Acq: 29 May 2025 11:43

Tgt Ion: 95 Resp: 210508
 Ion Ratio Lower Upper
 95 100
 174 67.4 53.1 79.7
 175 5.3 4.2 6.2

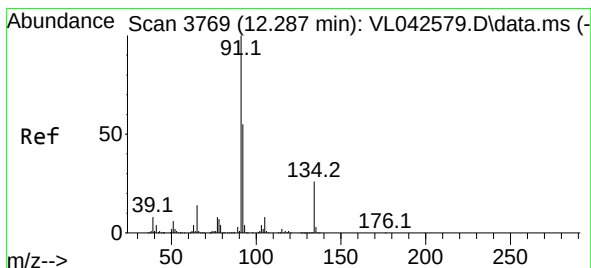
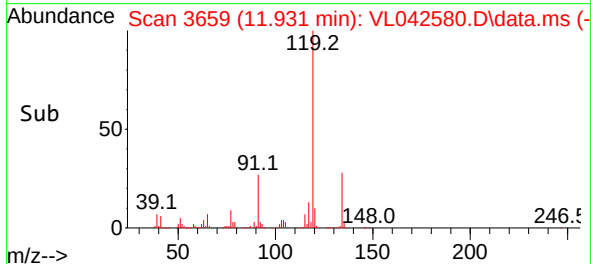
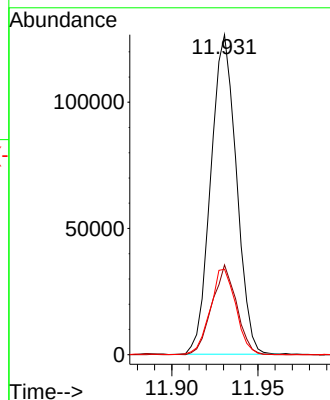
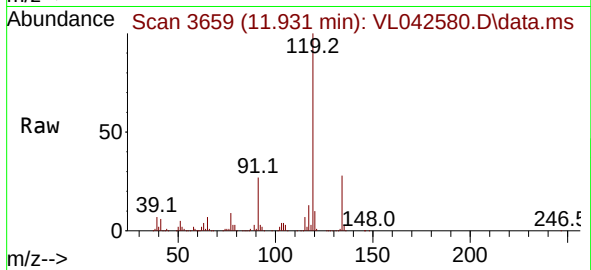




#69
p-Isopropyltoluene
Concen: 2.188 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

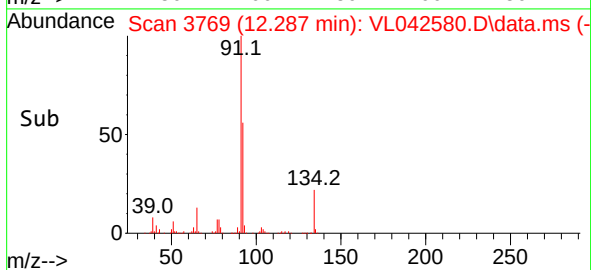
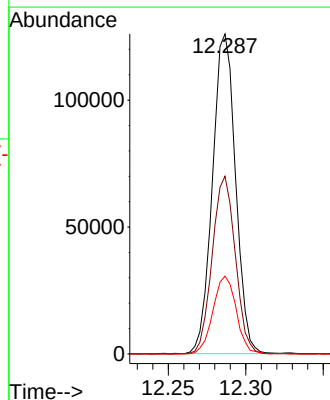
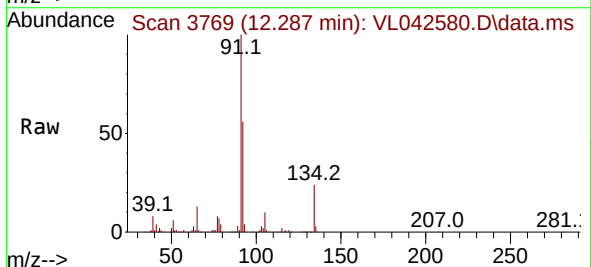
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

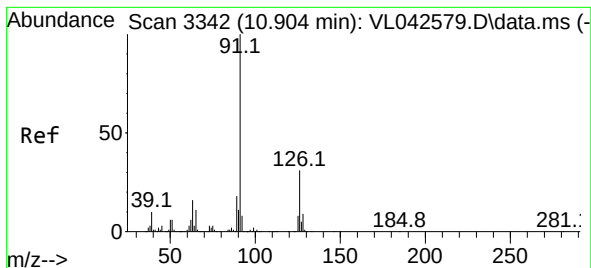
Tgt Ion:119 Resp: 130647
Ion Ratio Lower Upper
119 100
134 27.0 21.1 31.7
91 27.2 21.9 32.9



#70
n-Butylbenzene
Concen: 2.216 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 91 Resp: 130662
Ion Ratio Lower Upper
91 100
92 55.6 44.4 66.6
134 24.6 20.1 30.1

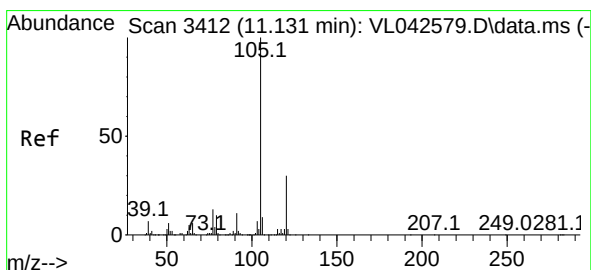
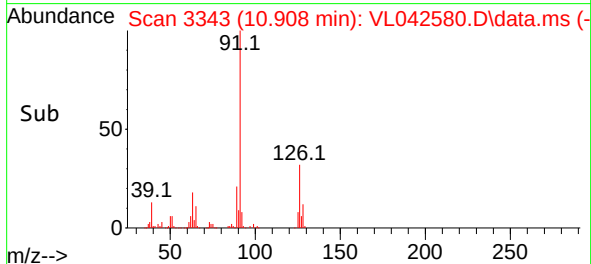
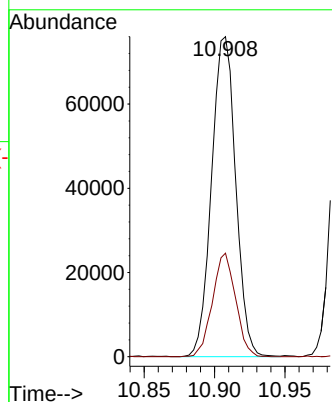
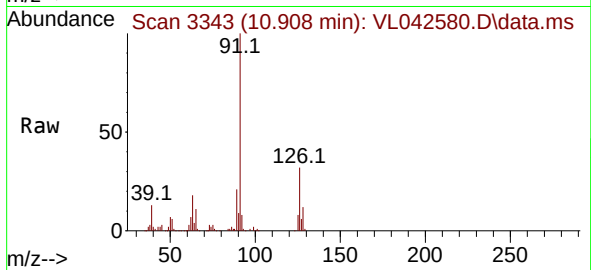




#71
2-Chlorotoluene
Concen: 2.128 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

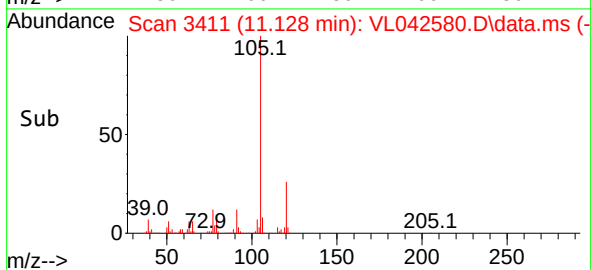
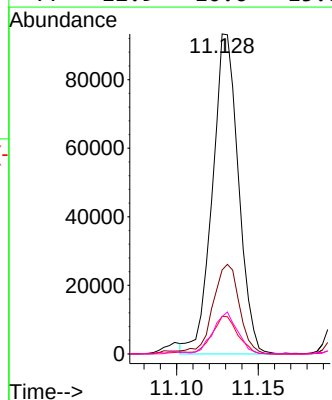
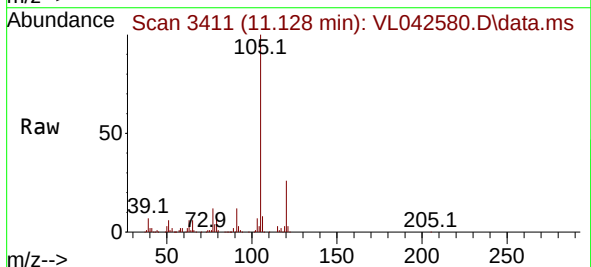
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

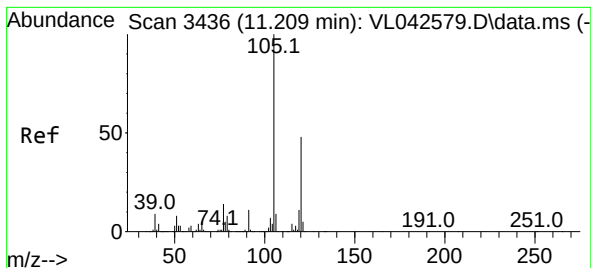
Tgt Ion: 91 Resp: 90725
Ion Ratio Lower Upper
91 100
126 30.9 12.6 50.4



#72
4-Ethyltoluene
Concen: 2.197 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion: 105 Resp: 103640
Ion Ratio Lower Upper
105 100
120 29.2 24.6 36.8
91 12.3 9.6 14.4
77 12.9 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 2.147 ppbv

RT: 11.209 min Scan# 3436

Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_1

ClientSampleId :

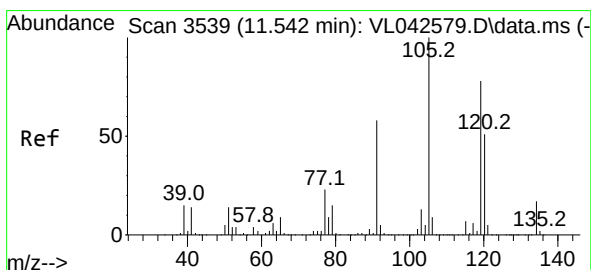
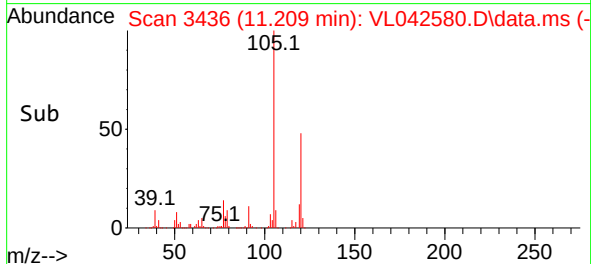
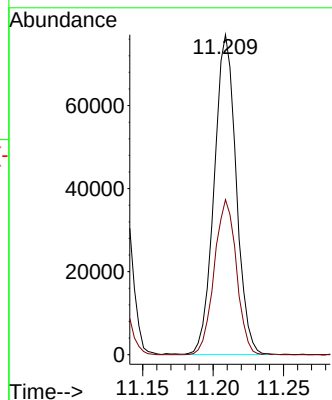
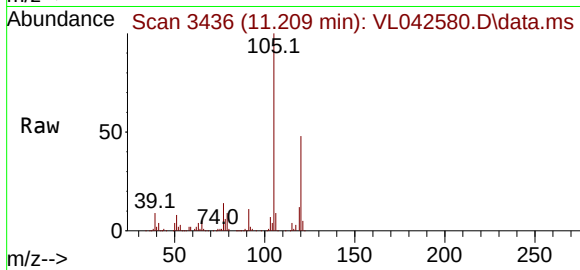
VSTDIC002

Tgt Ion:105 Resp: 83829

Ion Ratio Lower Upper

105 100

120 48.5 38.8 58.2



#74

1,2,4-Trimethylbenzene

Concen: 2.186 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Tgt Ion:105 Resp: 94716

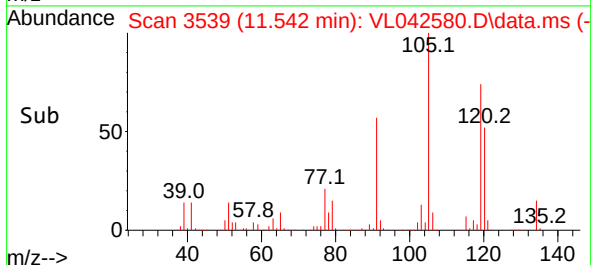
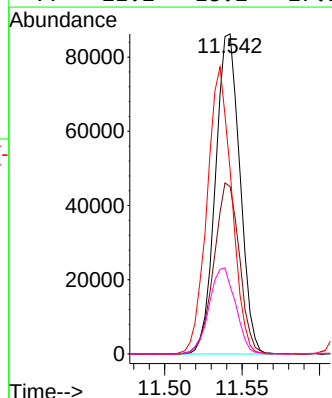
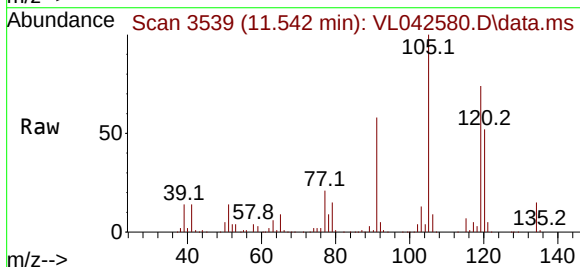
Ion Ratio Lower Upper

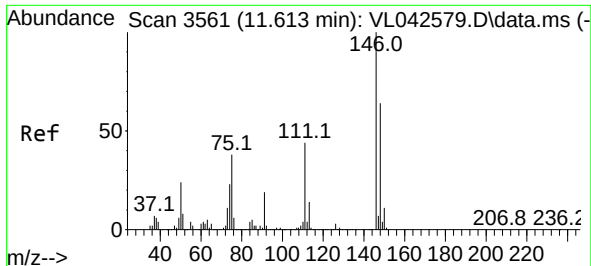
105 100

120 52.3 40.8 61.2

91 57.4 46.8 70.2

77 21.2 18.2 27.2

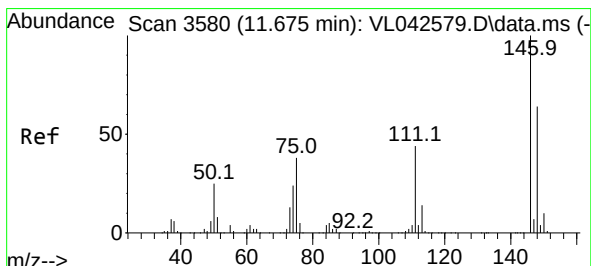
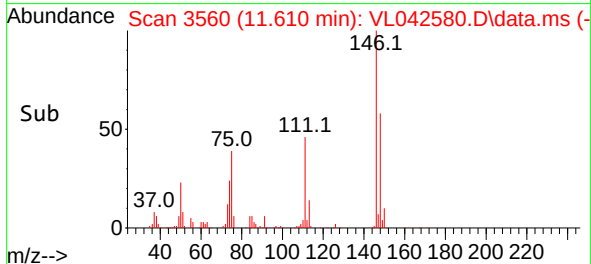
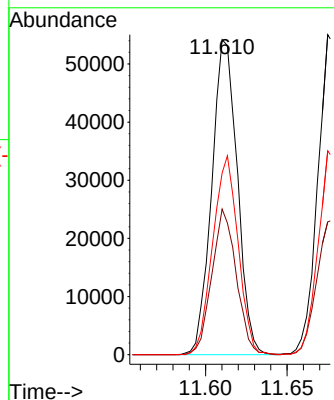
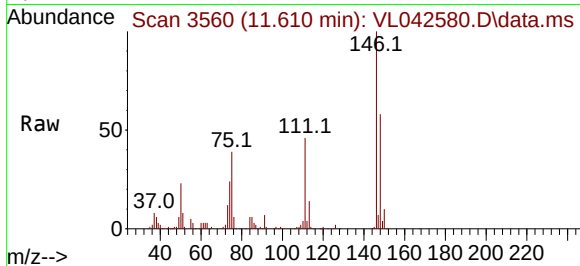




#75
1,3-Dichlorobenzene
Concen: 2.174 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.003 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

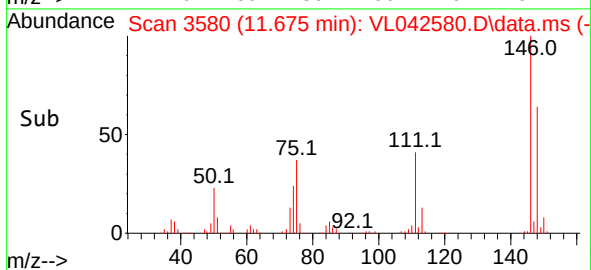
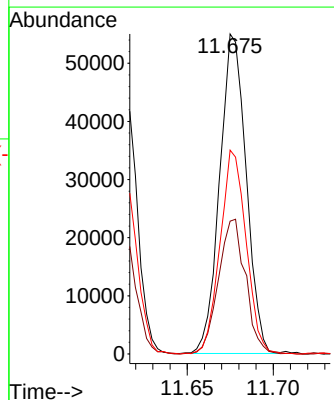
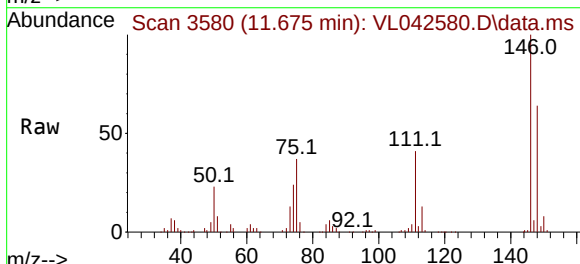
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

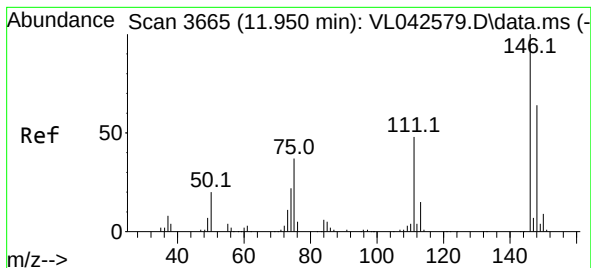
Tgt Ion:146 Resp: 59138
Ion Ratio Lower Upper
146 100
111 44.3 22.4 67.3
148 62.4 32.0 96.2



#76
1,4-Dichlorobenzene
Concen: 2.171 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.000 min
Lab File: VL042580.D
Acq: 29 May 2025 11:43

Tgt Ion:146 Resp: 58920
Ion Ratio Lower Upper
146 100
111 43.2 21.6 64.8
148 63.0 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 2.212 ppbv

RT: 11.953 min Scan# 3666

Delta R.T. 0.003 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

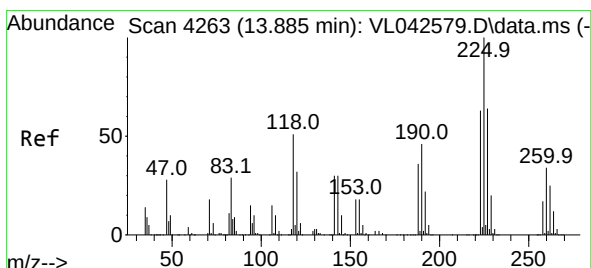
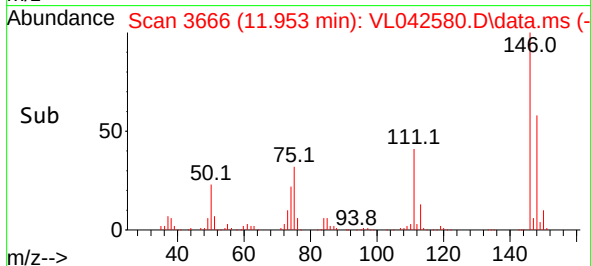
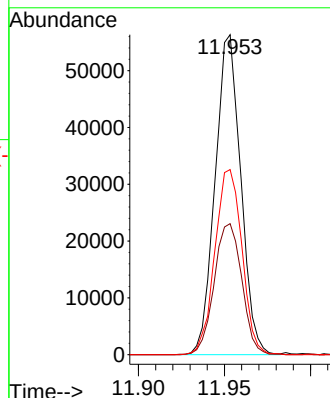
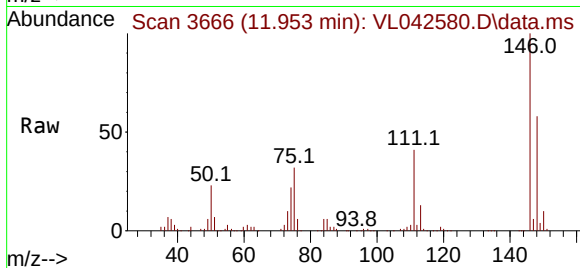
Tgt Ion:146 Resp: 58400

Ion Ratio Lower Upper

146 100

111 44.1 23.1 69.3

148 61.2 32.1 96.3



#78

Hexachloro-1,3-Butadiene

Concen: 2.288 ppbv

RT: 13.885 min Scan# 4263

Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

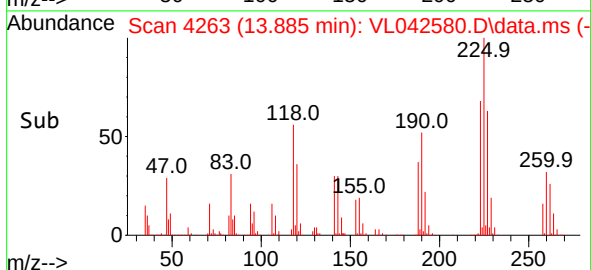
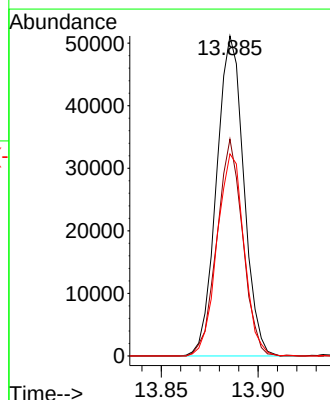
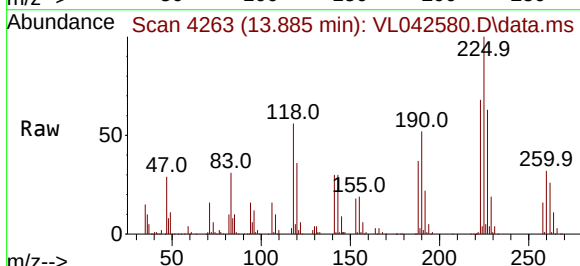
Tgt Ion:225 Resp: 49999

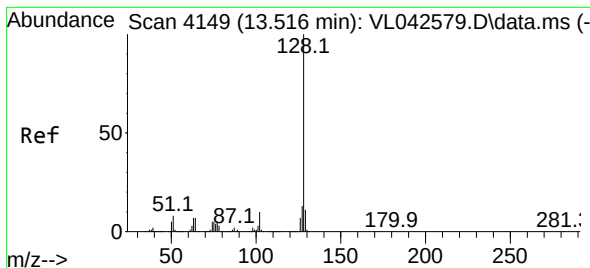
Ion Ratio Lower Upper

225 100

223 64.1 50.2 75.4

227 62.5 51.1 76.7





#79

Naphthalene

Concen: 2.494 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

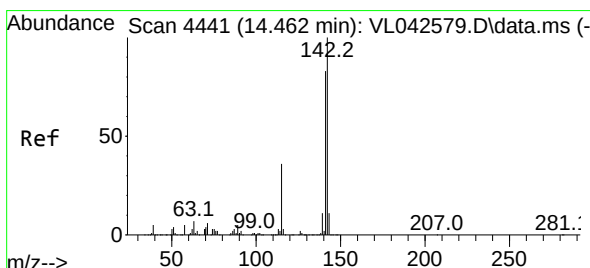
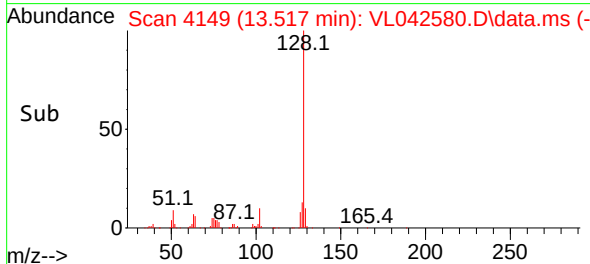
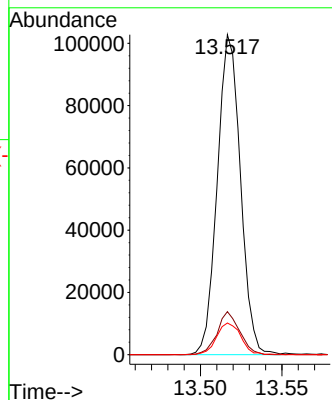
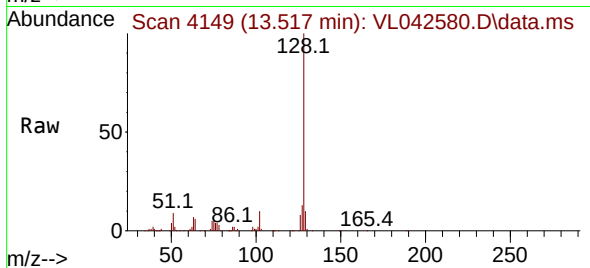
Tgt Ion:128 Resp: 101451

Ion Ratio Lower Upper

128 100

127 13.5 10.2 15.4

129 9.9 8.8 13.2



#80

Naphthalene,2-methyl-

Concen: 2.408 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.000 min

Lab File: VL042580.D

Acq: 29 May 2025 11:43

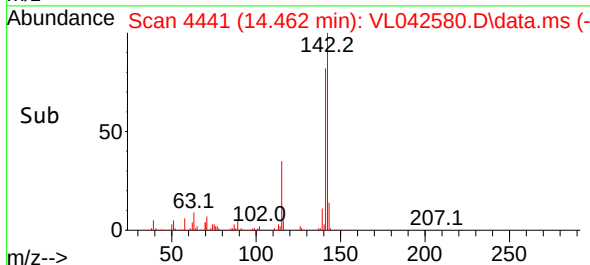
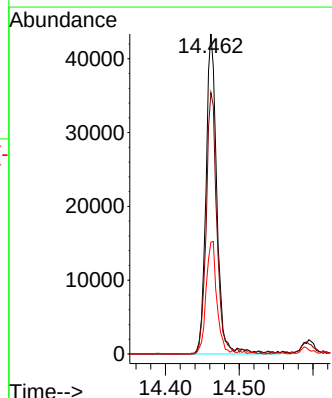
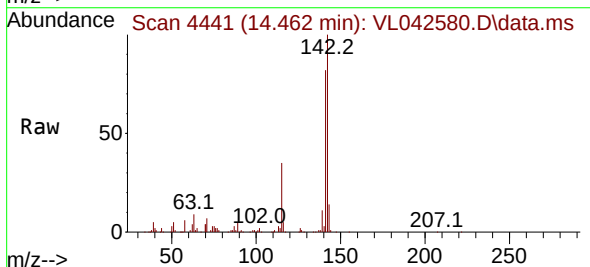
Tgt Ion:142 Resp: 44376

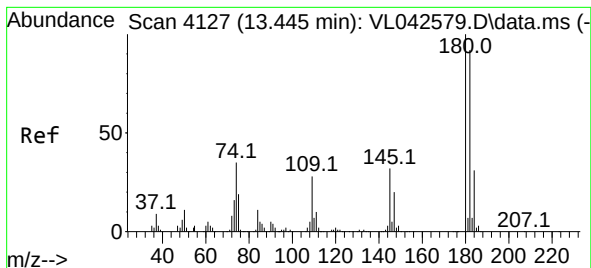
Ion Ratio Lower Upper

142 100

141 82.1 66.2 99.4

115 35.0 28.3 42.5





#81

1,2,4-Trichlorobenzene

Concen: 2.353 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042580.D

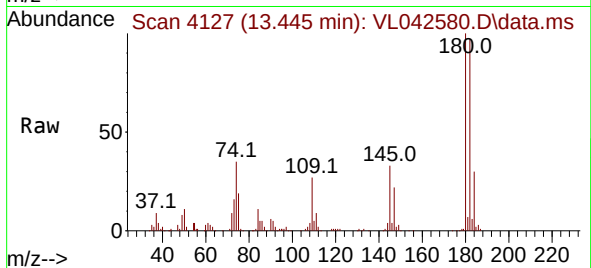
Acq: 29 May 2025 11:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002



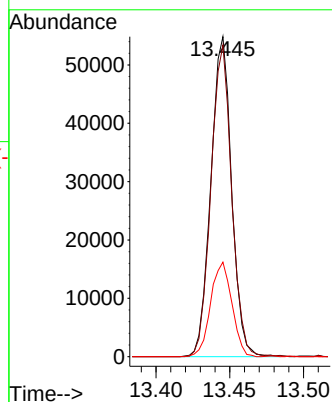
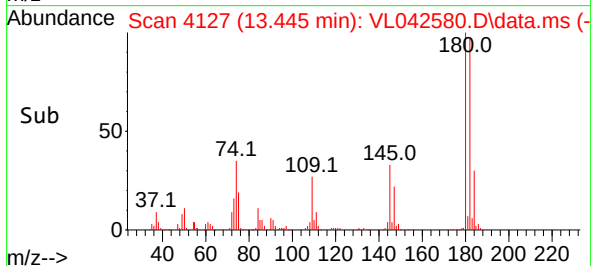
Tgt Ion:180 Resp: 53653

Ion Ratio Lower Upper

180 100

182 97.3 75.0 112.4

184 30.4 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042581.D
 Acq On : 29 May 2025 12:15
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Quant Time: May 30 01:18:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	101864	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	307159	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	279402	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	209886	10.021	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	13779	1.101	ppbv	95
3) Chlorodifluoromethane	1.476	51	18960	1.100	ppbv	99
4) Chloromethane	1.531	50	5387	1.087	ppbv	89
5) Vinyl Chloride	1.580	62	4964	0.983	ppbv	99
6) Bromomethane	1.667	94	2560	1.041	ppbv	99
7) Chloroethane	1.703	64	2164	1.103	ppbv #	84
8) Dichlorotetrafluoroethane	1.554	85	11182	1.072	ppbv	98
9) Propene	1.483	41	7413	1.068	ppbv	97
10) Heptane	4.975	43	9844	0.502	ppbv #	28
11) Trichlorofluoromethane	1.878	101	12319	1.058	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.136	101	9979	1.091	ppbv	98
13) Ethanol	1.722	45	968	1.249	ppbv #	61
14) Bromoethene	1.780	108	3524	1.024	ppbv #	97
15) Acetone	1.835	43	15114	1.232	ppbv	98
16) 1,3-Butadiene	1.609	39	6483	1.115	ppbv	92
17) tert-Butyl alcohol	2.043	59	13587	1.063	ppbv #	83
18) 1,1-Dichloroethene	2.036	96	4598	1.080	ppbv	85
19) Isopropyl Alcohol	1.887	45	7964	1.086	ppbv #	38
20) Methylene Chloride	2.062	84	4654	1.149	ppbv	98
21) Allyl Chloride	2.094	41	9378	1.083	ppbv #	83
22) trans-1,2-Dichloroethene	2.340	96	5269	1.109	ppbv	98
23) Vinyl Acetate	2.463	43	16945	1.022	ppbv #	96
24) 1,1-Dichloroethane	2.408	63	10651	1.093	ppbv #	98
25) Ethyl Acetate	2.839	43	36518	1.088	ppbv	99
26) Hexane	2.826	57	16686	1.094	ppbv	99
27) Carbon Disulfide	2.149	76	12910	1.102	ppbv #	22
28) Methyl tert-Butyl Ether	2.441	73	7064	1.141	ppbv	93
29) Chloroform	2.849	83	21594	1.088	ppbv	100
30) Cyclohexane	3.858	84	13889	1.098	ppbv	96
31) cis-1,2-Dichloroethene	2.722	61	14880	1.066	ppbv	89
32) 1,1,1-Trichloroethane	3.370	97	20811	1.045	ppbv	97
34) 2-Butanone	2.560	43	23148	1.057	ppbv	99
35) Carbon Tetrachloride	3.765	117	21013	1.036	ppbv	89
36) Benzene	3.658	78	32310	1.068	ppbv	99
37) 1,2-Dichloroethane	3.218	62	15623	1.039	ppbv	97
38) Trichloroethene	4.551	130	13969	1.078	ppbv	98
39) 1,2-Dichloropropane	4.321	63	11488	1.027	ppbv	87
40) 1,4-Dioxane	4.593	88	1578	0.332	ppbv #	24
41) Tetrahydrofuran	3.062	42	13711	1.069	ppbv	99
42) Bromodichloromethane	4.490	83	22628	1.060	ppbv #	96
43) Methyl Methacrylate	4.884	69	11810	1.007	ppbv	97
44) 2,2,4-Trimethylpentane	4.645	57	30389	0.588	ppbv #	49
45) t-1,3-Dichloropropene	6.422	75	6581	0.490	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042581.D
 Acq On : 29 May 2025 12:15
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

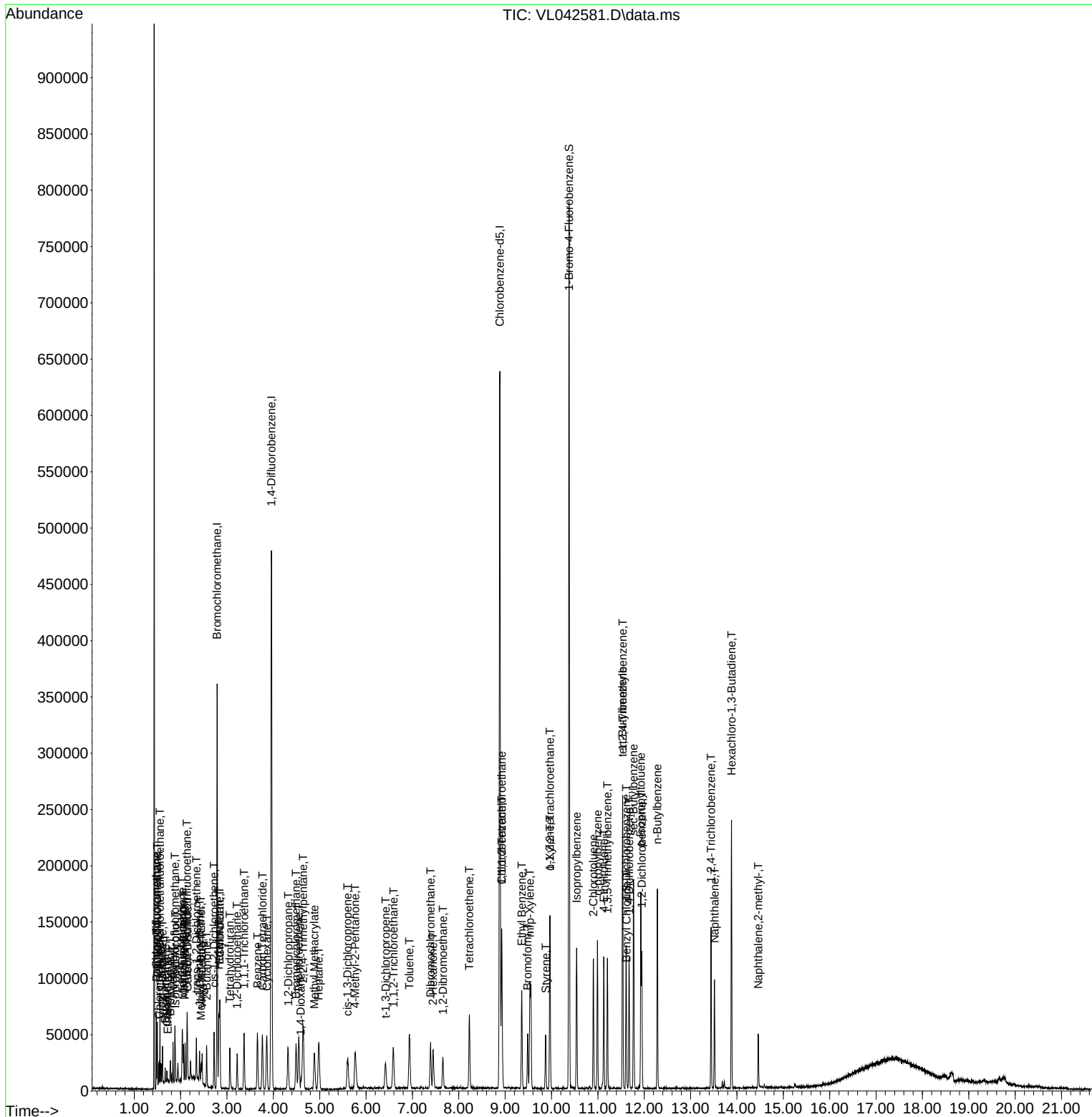
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

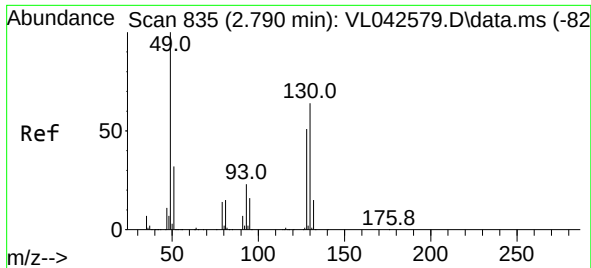
Quant Time: May 30 01:18:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	10330	0.614	ppbv	96
47) 1,1,2-Trichloroethane	6.593	97	4735	0.409	ppbv	94
48) Dibromochloromethane	7.393	129	19719	1.064	ppbv	99
49) Bromoform	9.484	173	15937	0.996	ppbv	96
50) 4-Methyl-2-Pentanone	5.765	43	31646	1.037	ppbv	99
51) 2-Hexanone	7.445	43	25135	1.043	ppbv #	96
52) Tetrachloroethene	8.228	164	11770	1.041	ppbv	97
53) Toluene	6.936	91	36540	1.045	ppbv	97
54) 1,2-Dibromoethane	7.658	107	18114	1.055	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.927	131	14971	1.066	ppbv	95
57) Chlorobenzene	8.927	112	28714	1.058	ppbv	100
58) Ethyl Benzene	9.357	91	49899	1.053	ppbv	96
59) m/p-Xylene	9.535	91	43372	1.163	ppbv #	29
60) o-Xylene	9.966	91	39398	1.059	ppbv	99
61) Styrene	9.875	104	18371	1.045	ppbv	100
62) Isopropylbenzene	10.542	105	59492	1.083	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	24057	1.017	ppbv	99
64) n-propylbenzene	10.992	120	15107	1.026	ppbv	90
65) tert-Butylbenzene	11.532	119	53720	1.077	ppbv	99
66) Benzyl Chloride	11.617	91	6617	1.029	ppbv	98
67) sec-Butylbenzene	11.769	105	76631	1.093	ppbv	100
69) p-Isopropyltoluene	11.927	119	62849	1.070	ppbv	100
70) n-Butylbenzene	12.283	91	63350	1.093	ppbv	99
71) 2-Chlorotoluene	10.901	91	45250	1.080	ppbv	99
72) 4-Ethyltoluene	11.128	105	50214	1.083	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	41412	1.079	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	46810	1.099	ppbv #	90
75) 1,3-Dichlorobenzene	11.610	146	28889	1.080	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	29060	1.089	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	28176	1.085	ppbv	97
78) Hexachloro-1,3-Butadiene	13.882	225	24950	1.162	ppbv	98
79) Naphthalene	13.517	128	45649	1.141	ppbv #	94
80) Naphthalene,2-methyl-	14.458	142	15700	0.866	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	24843	1.108	ppbv	97

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

Quant Time: May 30 01:18:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

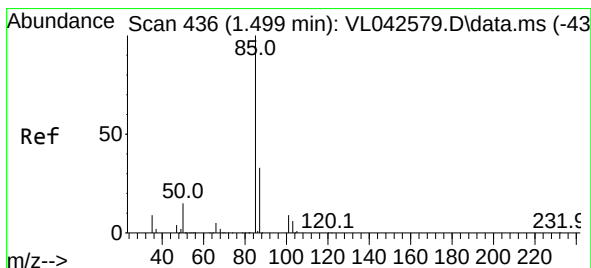
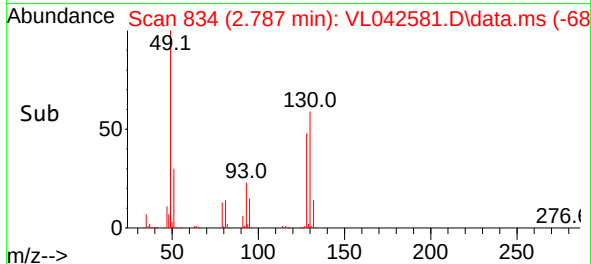
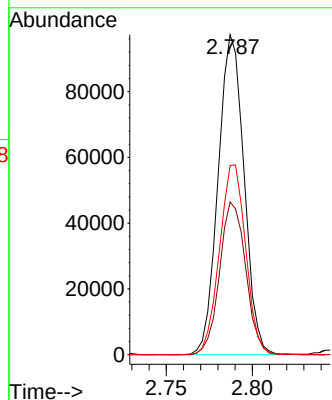
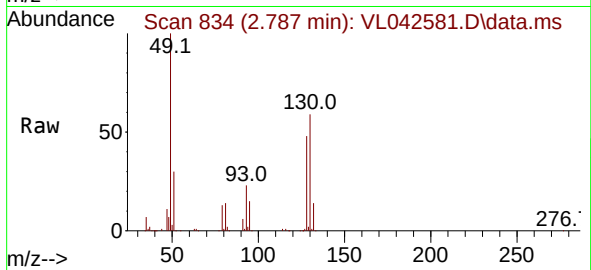




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 835
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

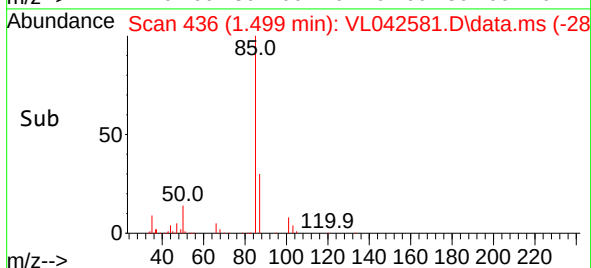
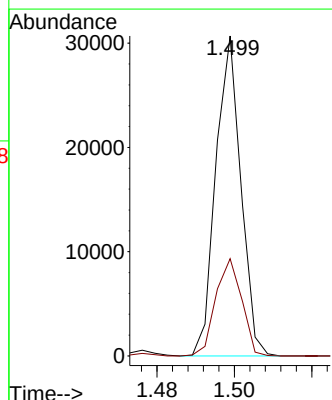
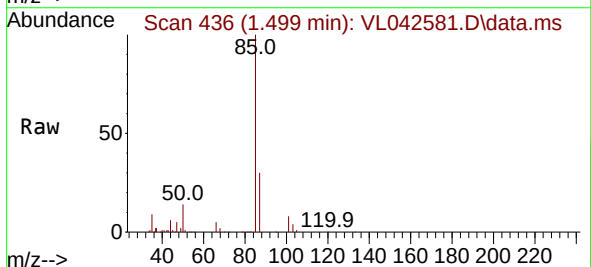
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

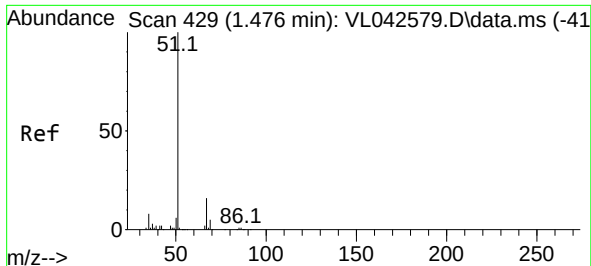
Tgt Ion: 49 Resp: 101864
Ion Ratio Lower Upper
49 100
128 48.1 24.2 72.6
130 60.1 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 1.101 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion: 85 Resp: 13779
Ion Ratio Lower Upper
85 100
87 30.4 26.6 39.8

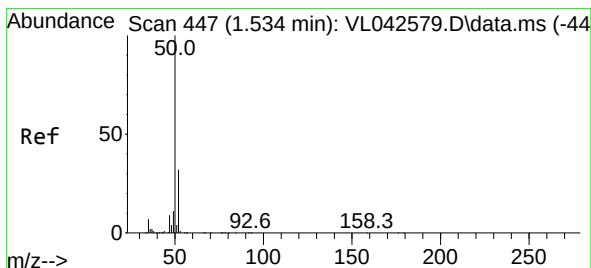
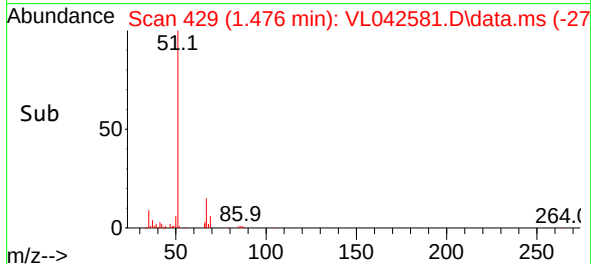
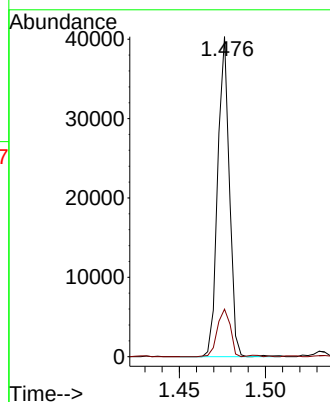
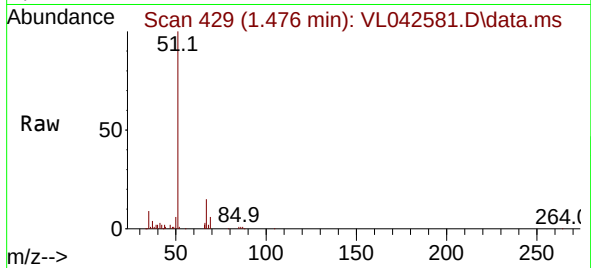




#3
Chlorodifluoromethane
Concen: 1.100 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

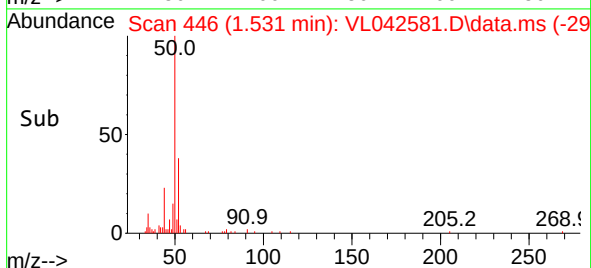
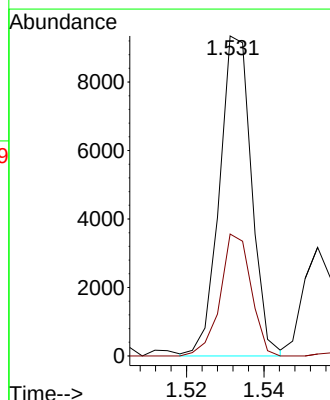
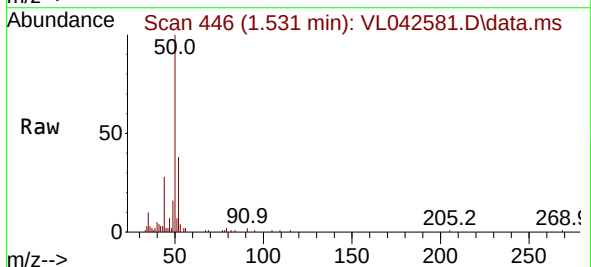
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

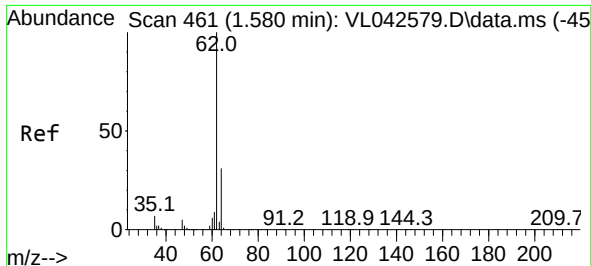
Tgt Ion: 51 Resp: 18960
Ion Ratio Lower Upper
51 100
67 17.0 13.4 20.2



#4
Chloromethane
Concen: 1.087 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion: 50 Resp: 5387
Ion Ratio Lower Upper
50 100
52 38.4 25.8 38.6

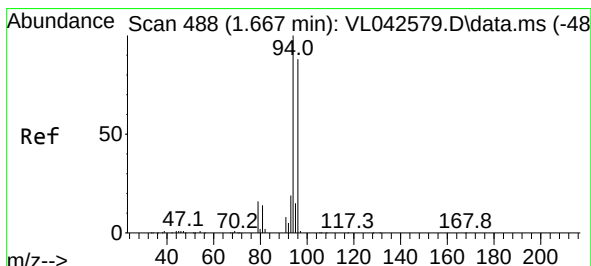
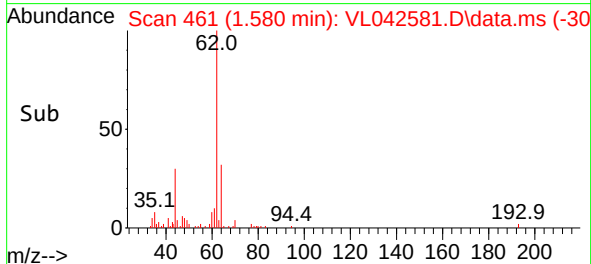
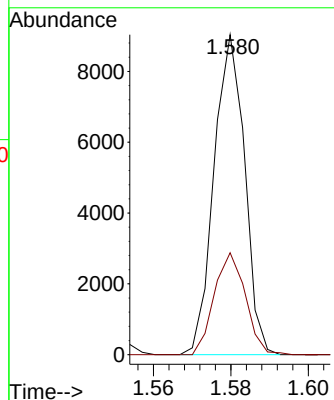
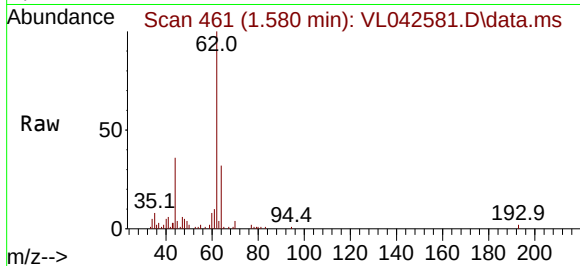




#5
 Vinyl Chloride
 Concen: 0.983 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

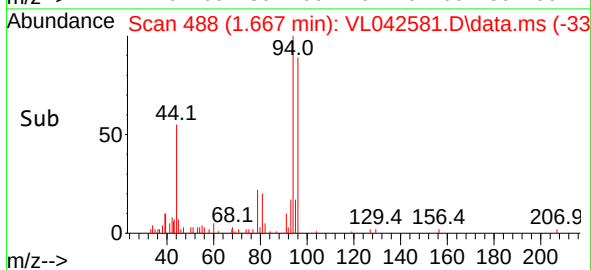
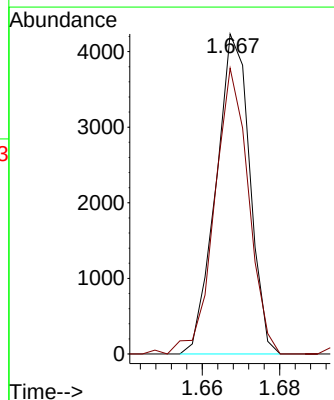
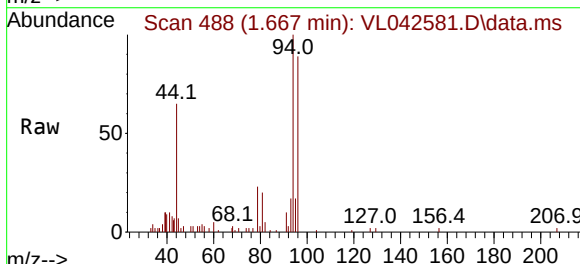
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

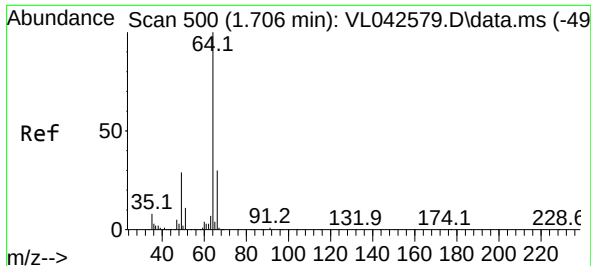
Tgt Ion: 62 Resp: 4964
 Ion Ratio Lower Upper
 62 100
 64 31.8 24.9 37.3



#6
 Bromomethane
 Concen: 1.041 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

Tgt Ion: 94 Resp: 2560
 Ion Ratio Lower Upper
 94 100
 96 89.3 70.7 106.1

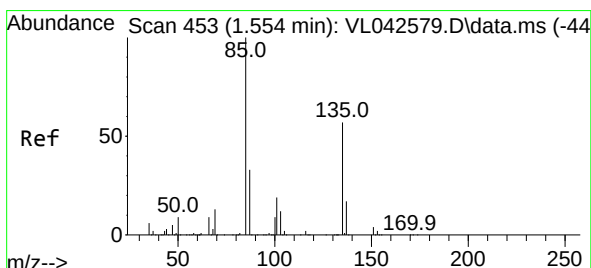
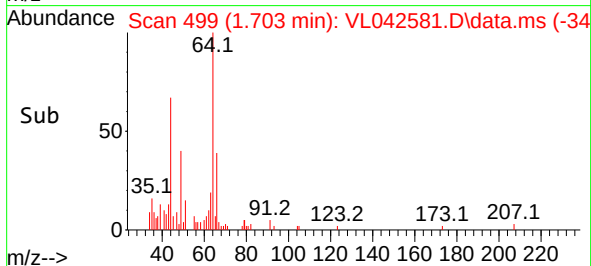
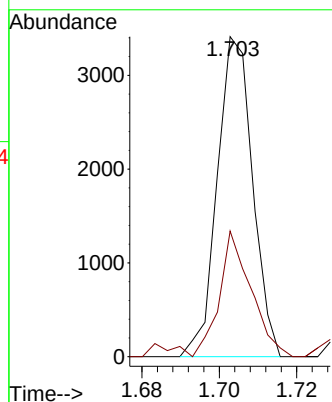
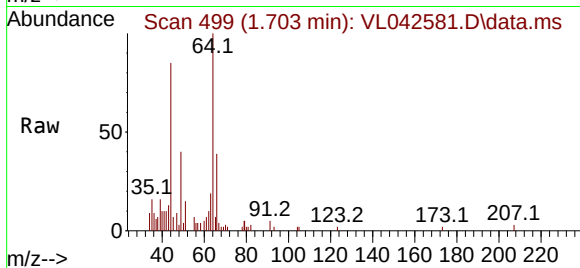




#7
Chloroethane
Concen: 1.103 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

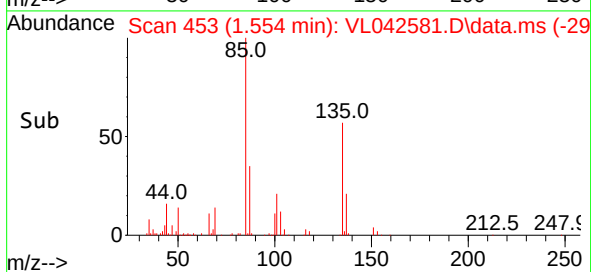
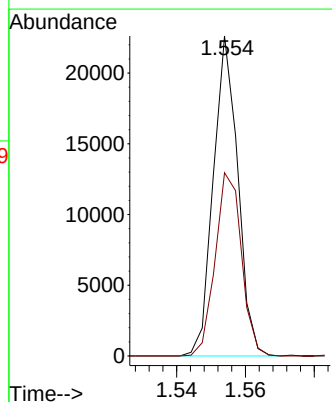
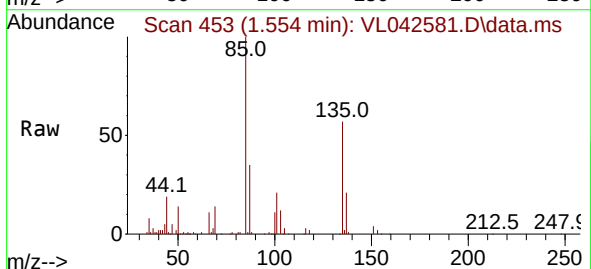
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

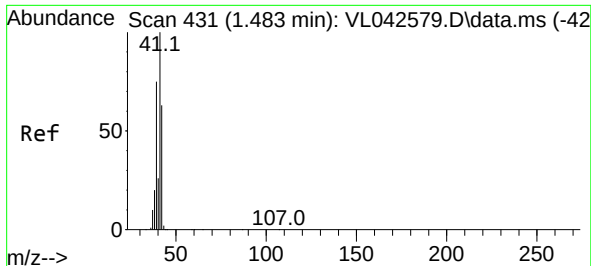
Tgt Ion: 64 Resp: 2164
Ion Ratio Lower Upper
64 100
66 39.3 24.3 36.5#



#8
Dichlorotetrafluoroethane
Concen: 1.072 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion: 85 Resp: 11182
Ion Ratio Lower Upper
85 100
135 61.5 50.2 75.4





#9

Propene

Concen: 1.068 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_1

ClientSampleId :

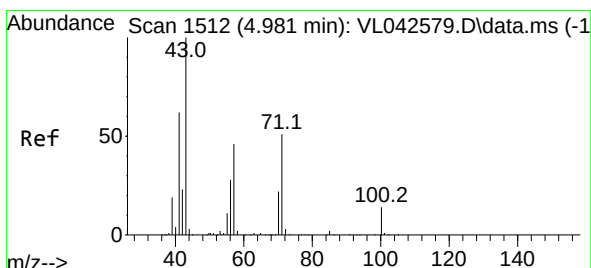
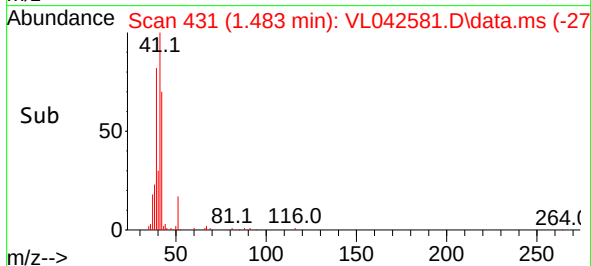
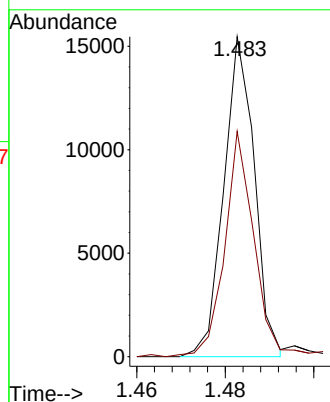
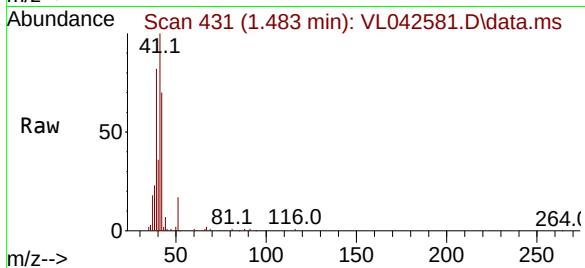
VSTDIC001

Tgt Ion: 41 Resp: 7413

Ion Ratio Lower Upper

41 100

42 69.1 53.3 79.9



#10

Heptane

Concen: 0.502 ppbv

RT: 4.975 min Scan# 1510

Delta R.T. -0.006 min

Lab File: VL042581.D

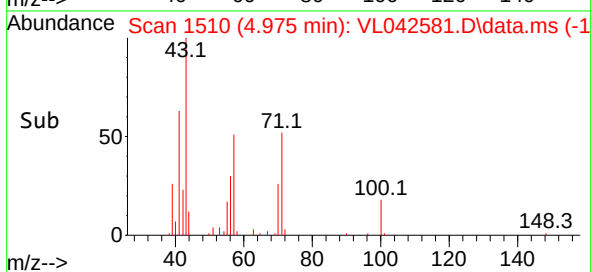
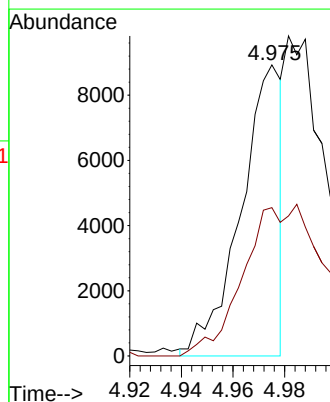
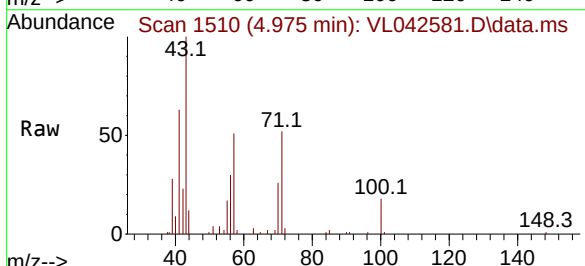
Acq: 29 May 2025 12:15

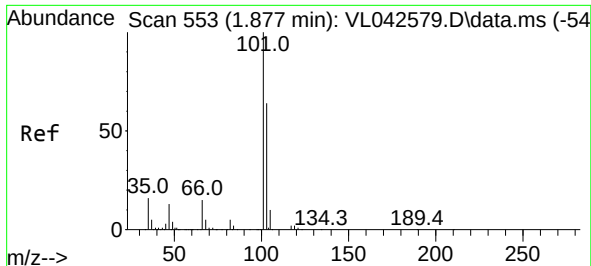
Tgt Ion: 43 Resp: 9844

Ion Ratio Lower Upper

43 100

57 0.0 38.9 58.3#

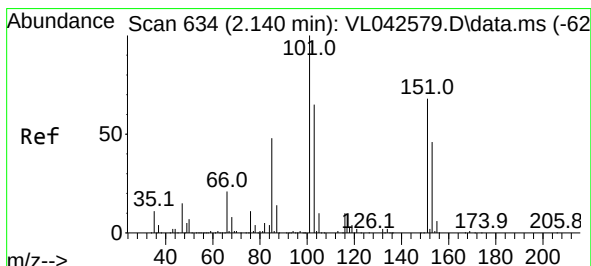
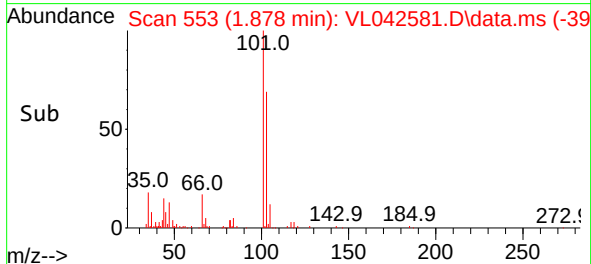
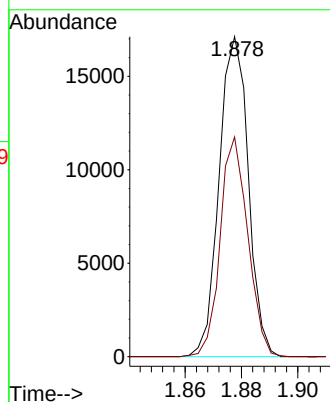
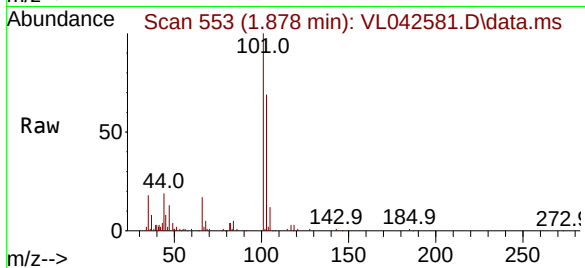




#11
 Trichlorofluoromethane
 Concen: 1.058 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

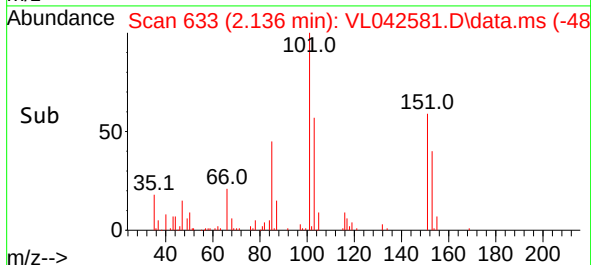
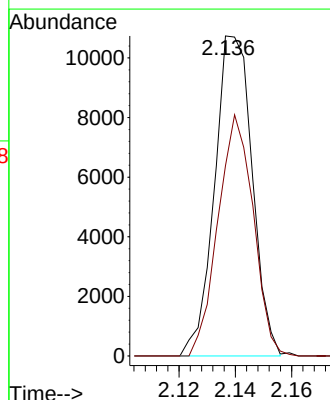
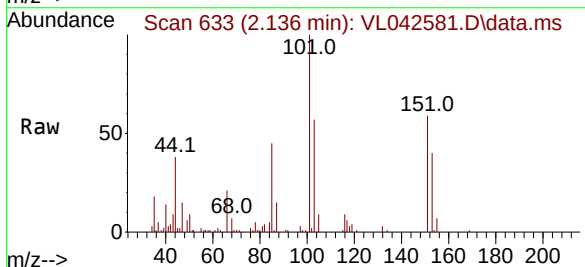
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

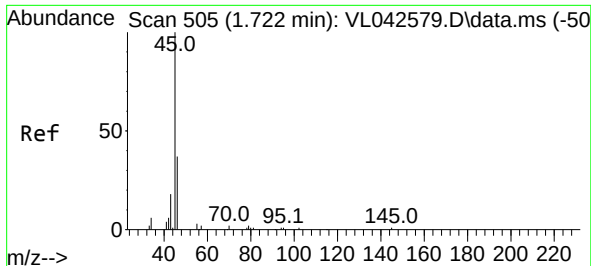
Tgt Ion:101 Resp: 12319
 Ion Ratio Lower Upper
 101 100
 103 68.6 51.5 77.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.091 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

Tgt Ion:101 Resp: 9979
 Ion Ratio Lower Upper
 101 100
 151 70.6 55.3 82.9

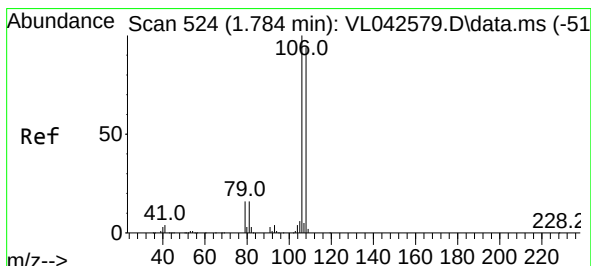
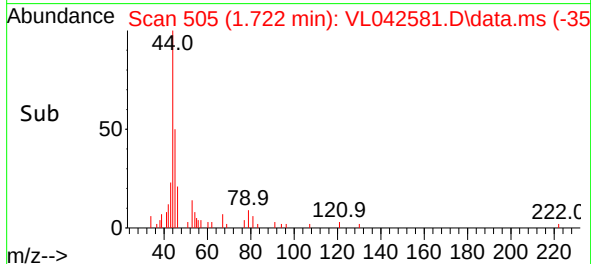
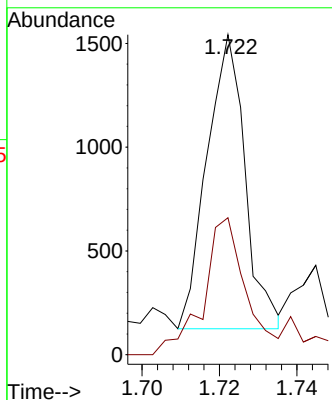
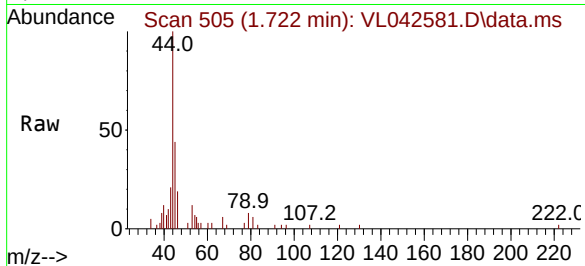




#13
Ethanol
Concen: 1.249 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

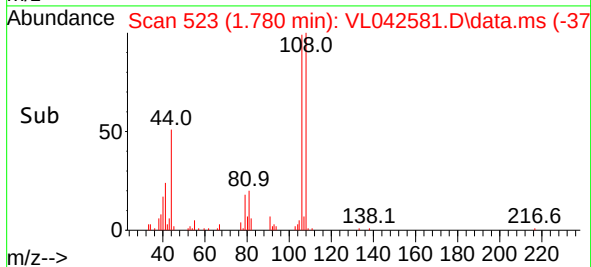
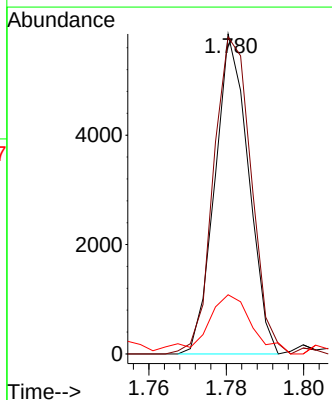
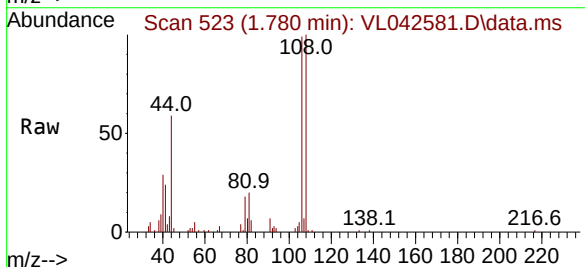
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

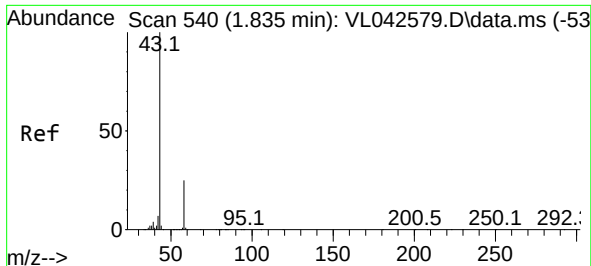
Tgt Ion: 45 Resp: 968
Ion Ratio Lower Upper
45 100
46 59.5 14.5 58.1#



#14
Bromoethene
Concen: 1.024 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion: 108 Resp: 3524
Ion Ratio Lower Upper
108 100
106 111.5 87.9 131.9
79 25.3 15.6 23.4#

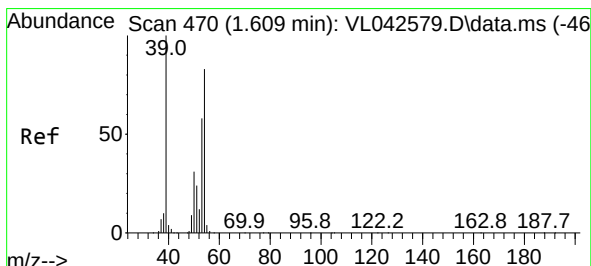
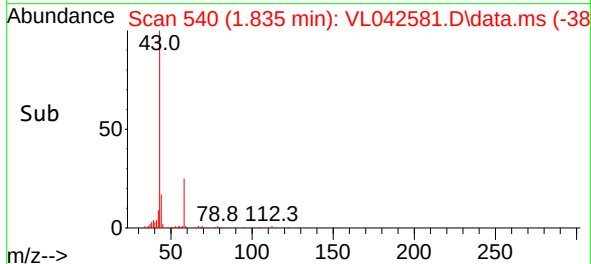
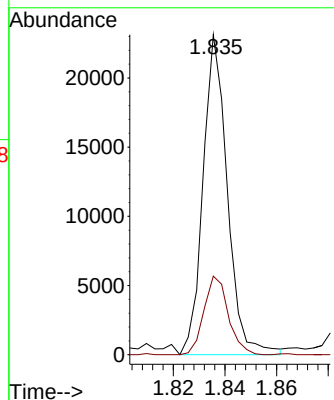
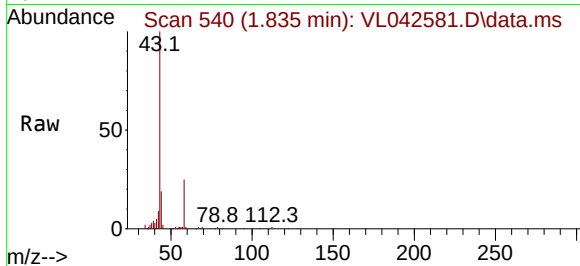




#15
Acetone
Concen: 1.232 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

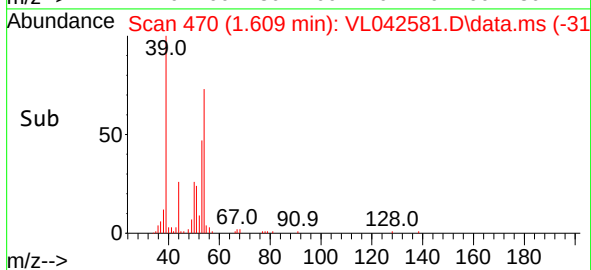
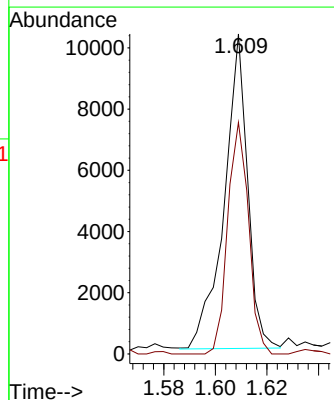
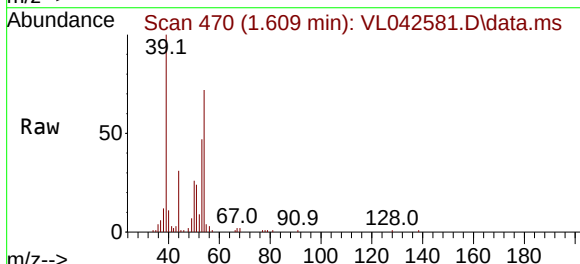
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

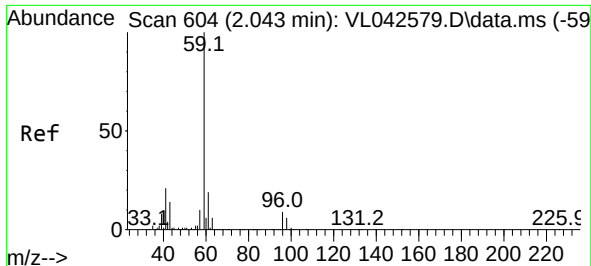
Tgt Ion: 43 Resp: 15114
Ion Ratio Lower Upper
43 100
58 24.9 21.0 31.4



#16
1,3-Butadiene
Concen: 1.115 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion: 39 Resp: 6483
Ion Ratio Lower Upper
39 100
54 65.4 57.9 86.9





#17

tert-Butyl alcohol

Concen: 1.063 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_1

ClientSampleId :

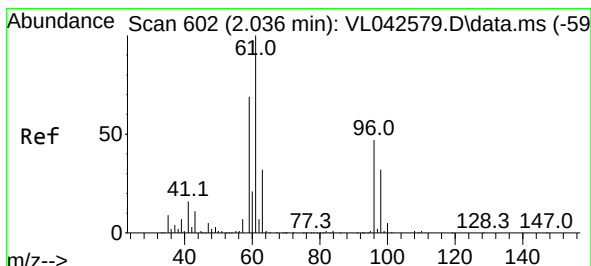
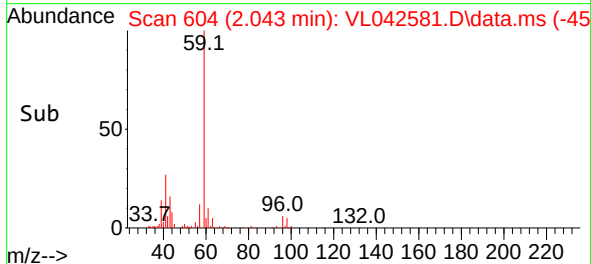
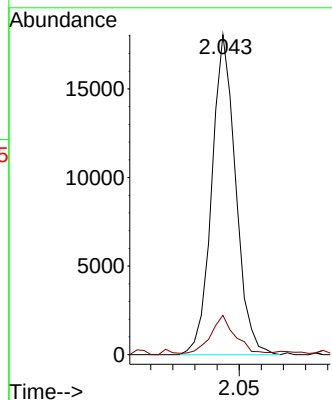
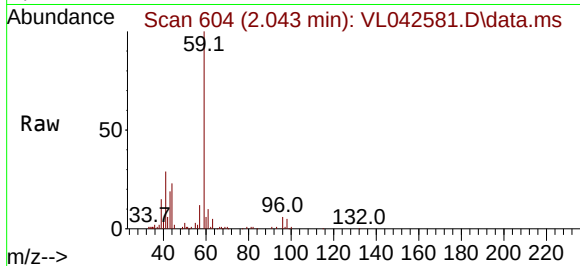
VSTDIC001

Tgt Ion: 59 Resp: 13587

Ion Ratio Lower Upper

59 100

57 17.1 8.6 12.8#



#18

1,1-Dichloroethene

Concen: 1.080 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

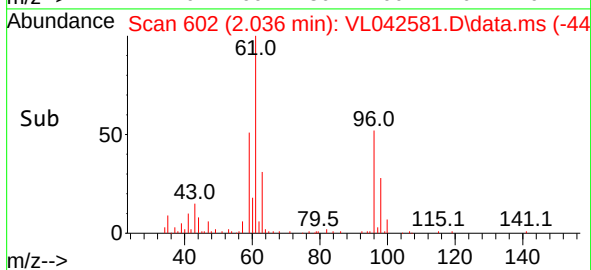
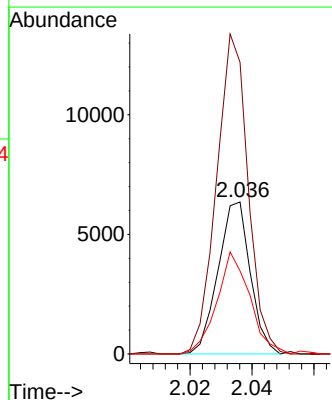
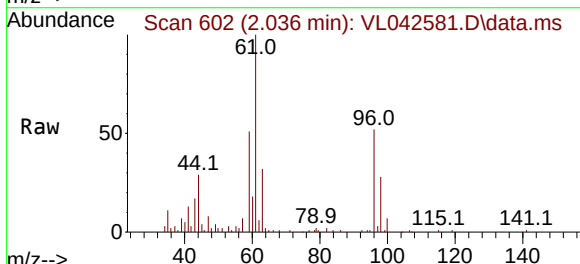
Tgt Ion: 96 Resp: 4598

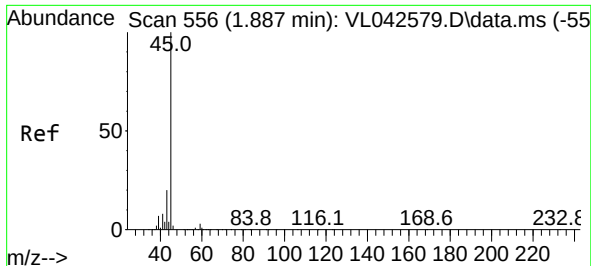
Ion Ratio Lower Upper

96 100

61 191.9 171.1 256.7

98 54.6 54.4 81.6

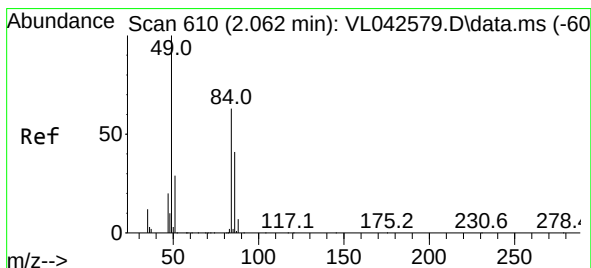
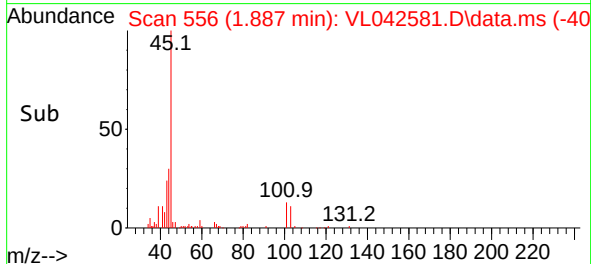
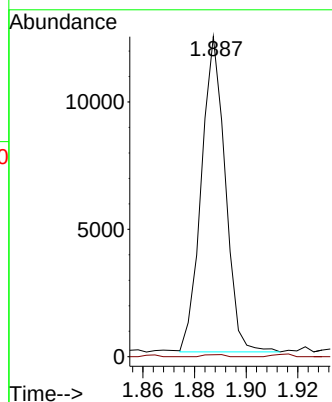
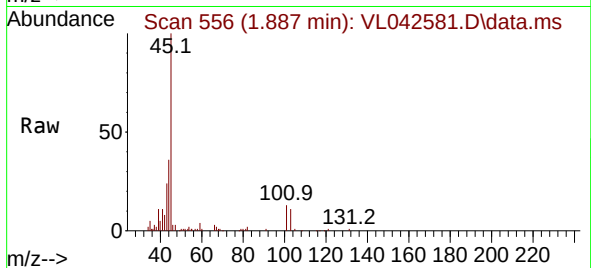




#19
Isopropyl Alcohol
Concen: 1.086 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

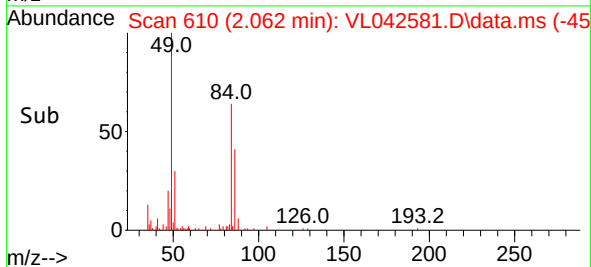
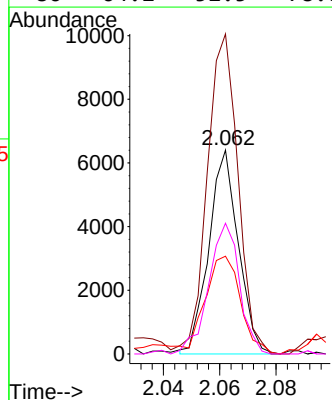
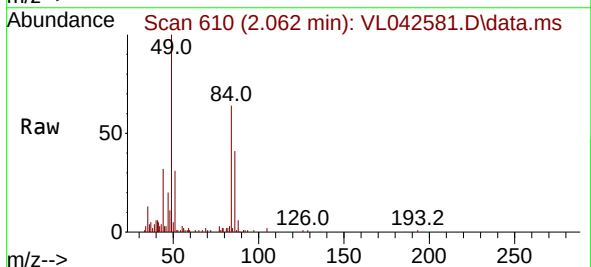
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

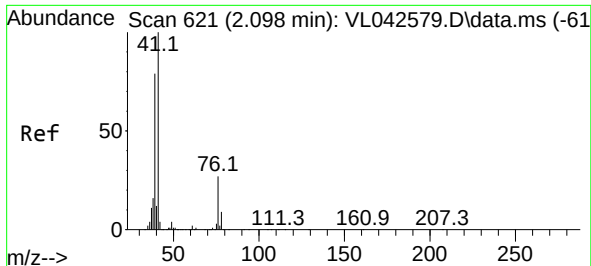
Tgt Ion: 45 Resp: 7964
Ion Ratio Lower Upper
45 100
58 0.0 29.4 44.2#



#20
Methylene Chloride
Concen: 1.149 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion: 84 Resp: 4654
Ion Ratio Lower Upper
84 100
49 157.0 128.8 193.2
51 48.0 38.6 57.8
86 64.2 52.5 78.7





#21

Allyl Chloride

Concen: 1.083 ppbv

RT: 2.094 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

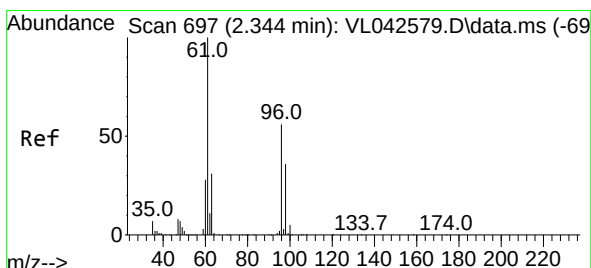
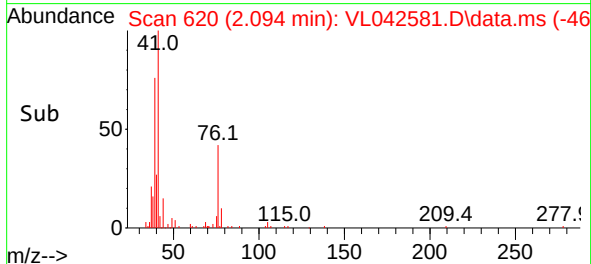
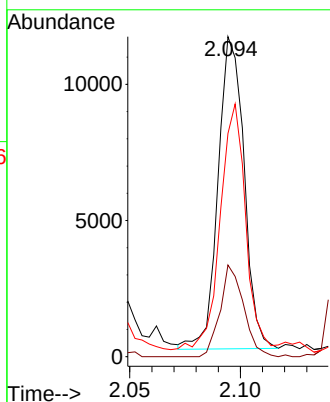
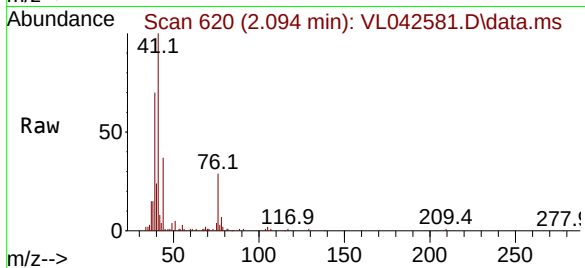
Tgt Ion: 41 Resp: 9378

Ion Ratio Lower Upper

41 100

76 26.6 21.2 31.8

39 95.2 60.9 91.3#



#22

trans-1,2-Dichloroethene

Concen: 1.109 ppbv

RT: 2.340 min Scan# 696

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

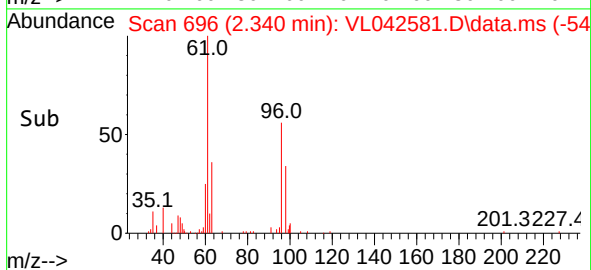
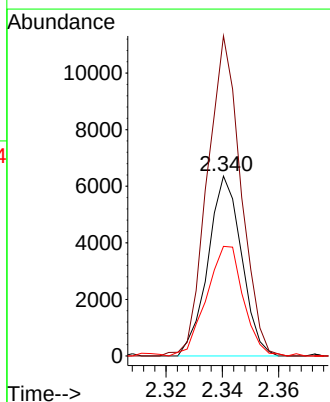
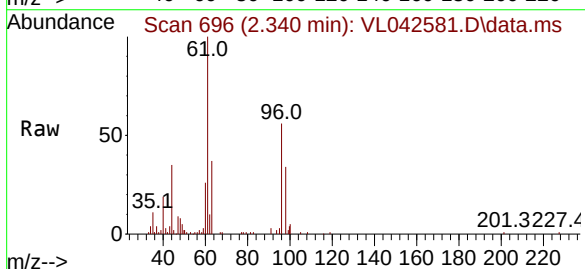
Tgt Ion: 96 Resp: 5269

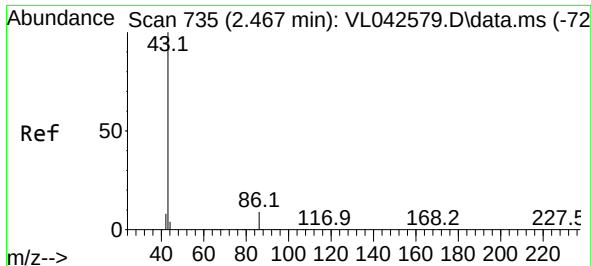
Ion Ratio Lower Upper

96 100

61 176.7 142.6 214.0

98 59.7 51.0 76.4

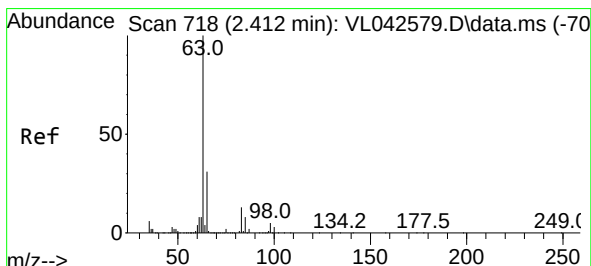
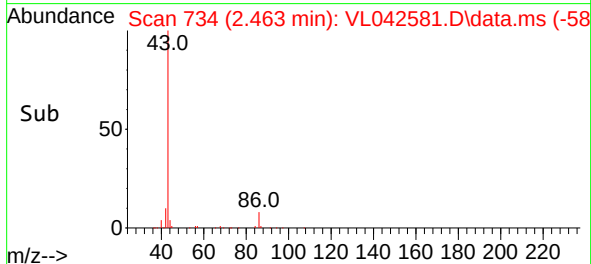
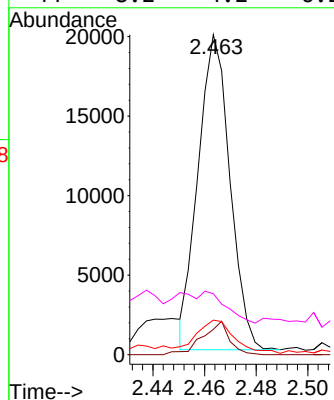
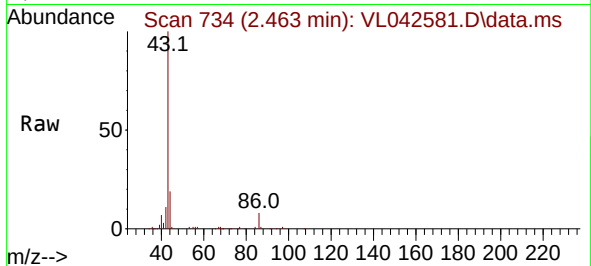




#23
 Vinyl Acetate
 Concen: 1.022 ppbv
 RT: 2.463 min Scan# 717
 Delta R.T. -0.003 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

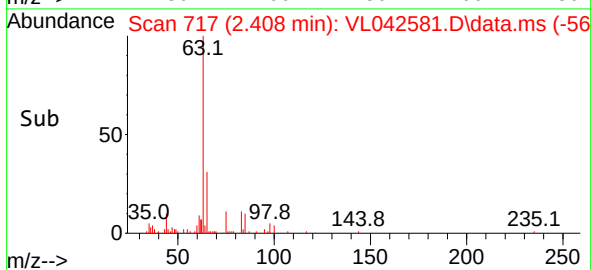
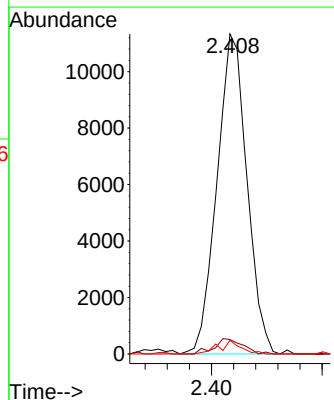
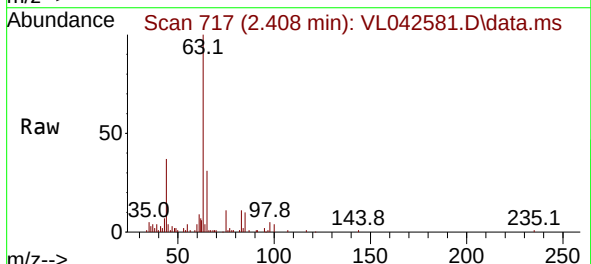
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

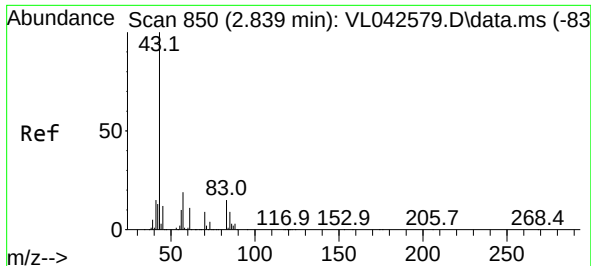
Tgt Ion:	43	Resp:	16945
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.6	9.8
42	10.6	7.0	10.4#
44	8.2	4.2	6.2#



#24
 1,1-Dichloroethane
 Concen: 1.093 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. -0.003 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

Tgt Ion:	63	Resp:	10651
Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.4	7.1
100	4.2	1.4	4.0#





#25

Ethyl Acetate

Concen: 1.088 ppbv

RT: 2.839 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 36518

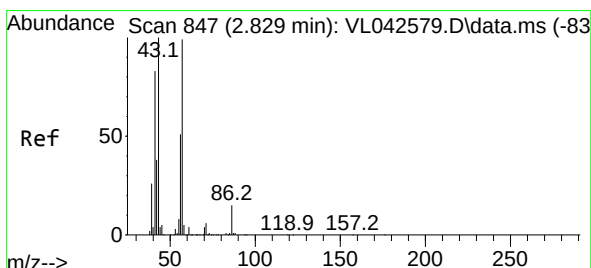
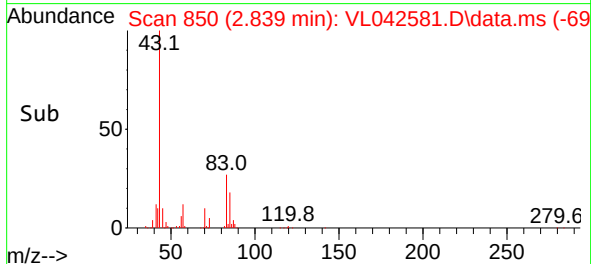
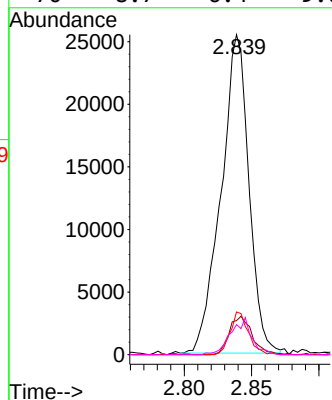
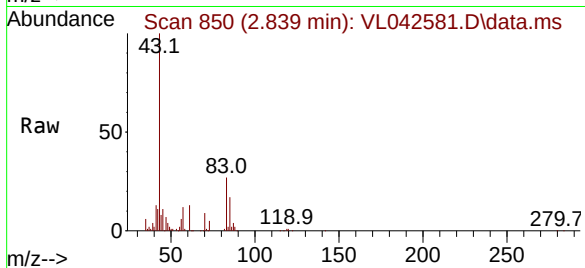
Ion Ratio Lower Upper

43 100

45 10.0 8.2 12.2

61 8.8 7.1 10.7

70 8.7 6.4 9.6



#26

Hexane

Concen: 1.094 ppbv

RT: 2.826 min Scan# 846

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Tgt Ion: 57 Resp: 16686

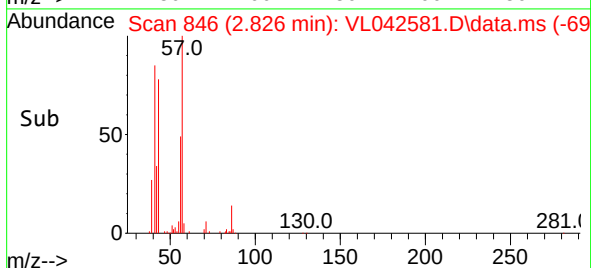
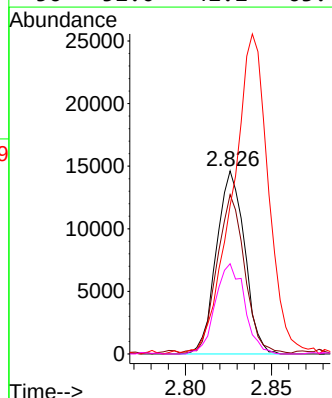
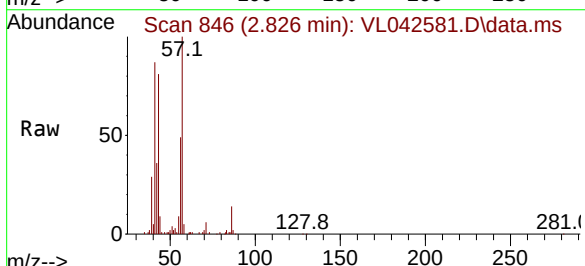
Ion Ratio Lower Upper

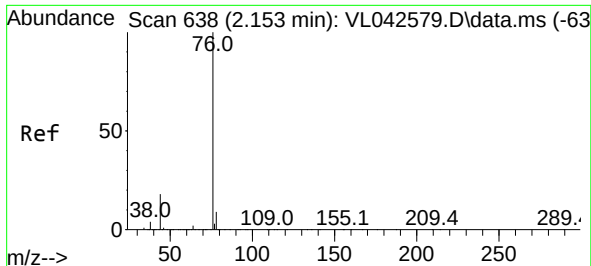
57 100

41 86.1 70.6 106.0

43 227.5 181.1 271.7

56 52.0 42.2 63.4

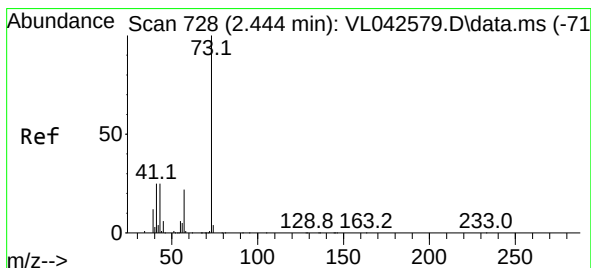
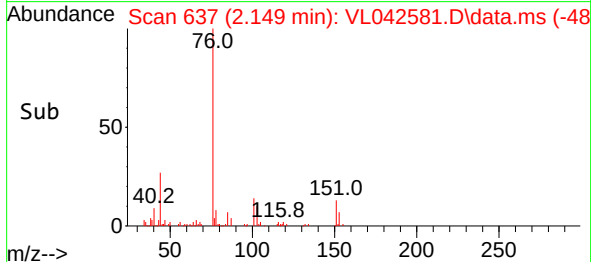
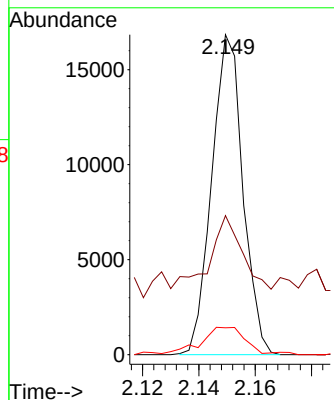
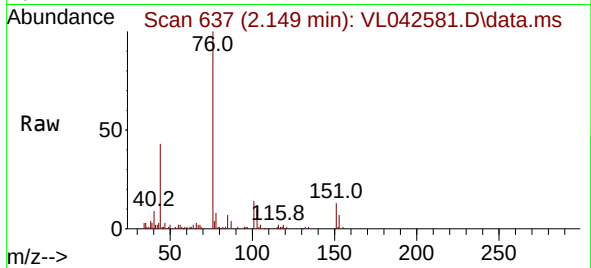




#27
Carbon Disulfide
Concen: 1.102 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

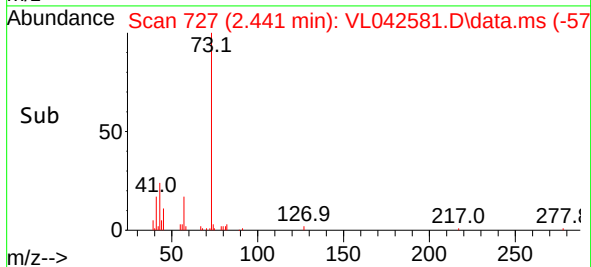
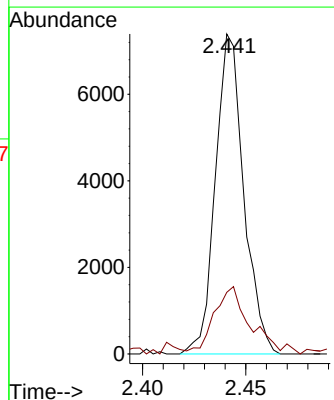
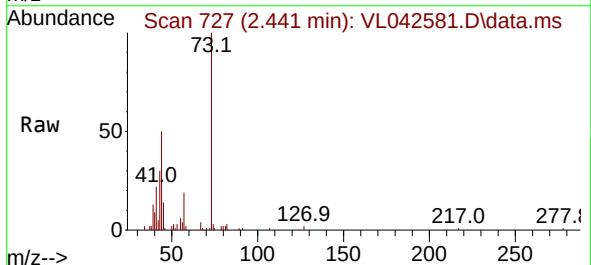
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

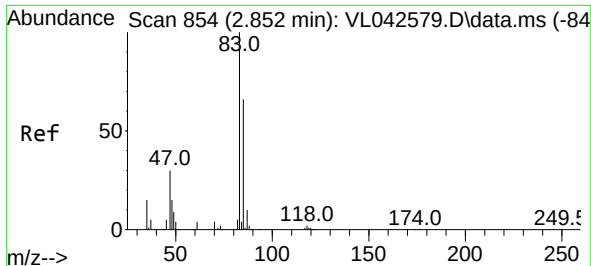
Tgt Ion: 76 Resp: 12910
Ion Ratio Lower Upper
76 100
44 83.5 21.3 31.9#
78 12.9 9.4 14.0



#28
Methyl tert-Butyl Ether
Concen: 1.141 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion: 73 Resp: 7064
Ion Ratio Lower Upper
73 100
57 28.6 19.9 29.9





#29

Chloroform

Concen: 1.088 ppbv

RT: 2.849 min Scan# 853

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

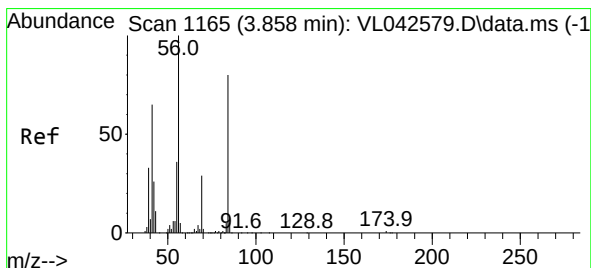
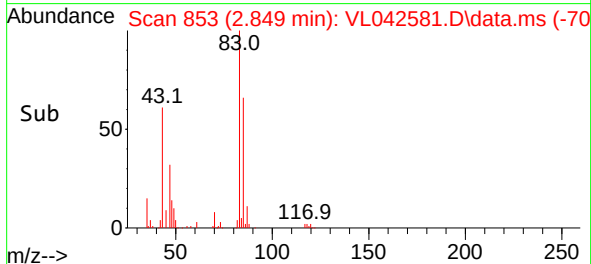
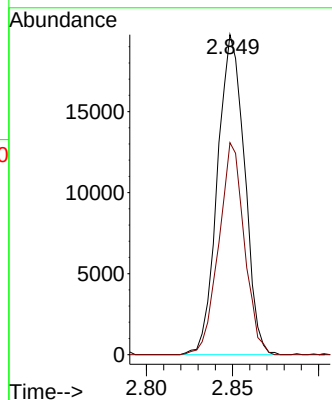
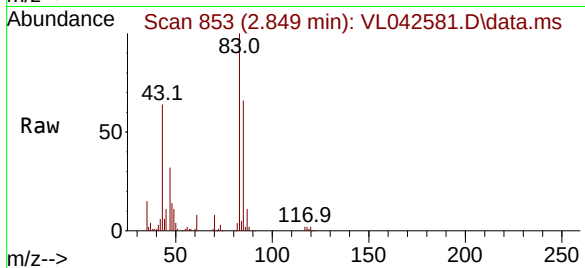
VSTDIC001

Tgt Ion: 83 Resp: 21594

Ion Ratio Lower Upper

83 100

85 66.2 52.8 79.2



#30

Cyclohexane

Concen: 1.098 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.000 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

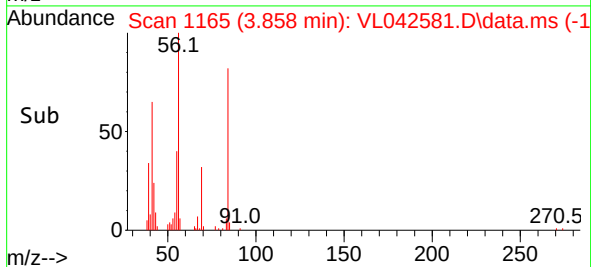
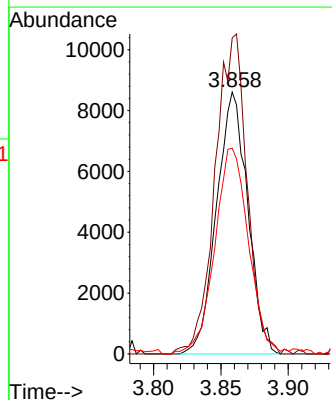
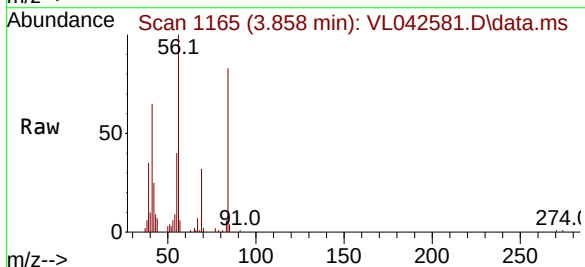
Tgt Ion: 84 Resp: 13889

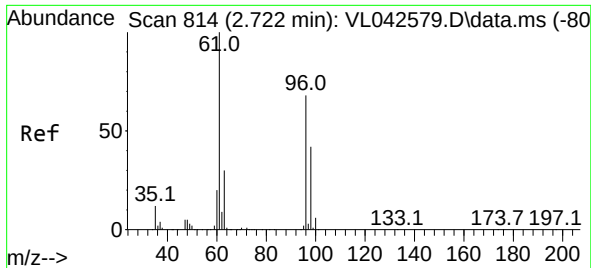
Ion Ratio Lower Upper

84 100

56 124.8 103.7 155.5

41 85.8 65.1 97.7

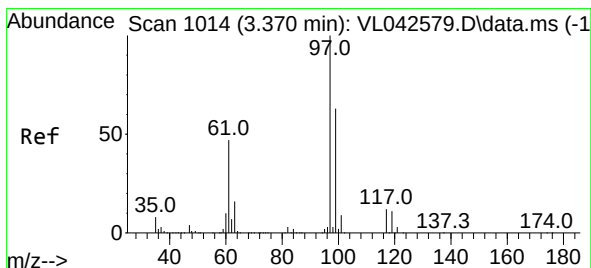
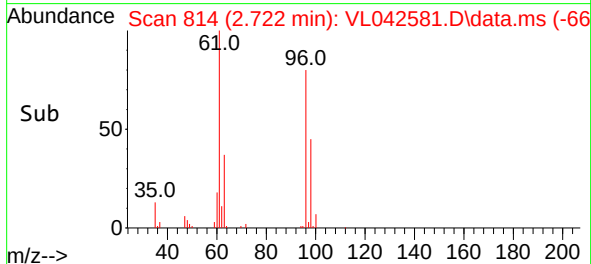
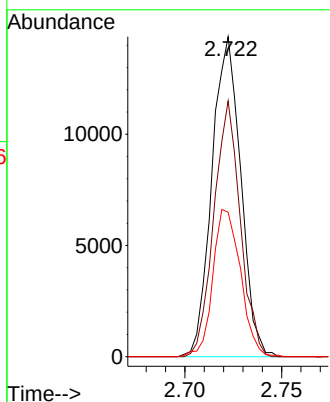
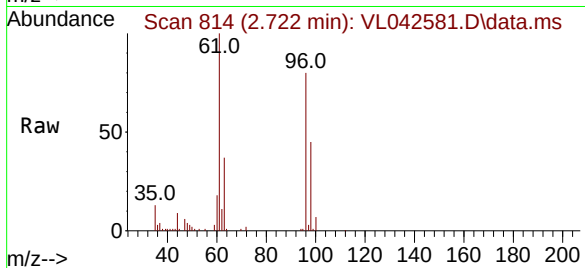




#31
 cis-1,2-Dichloroethene
 Concen: 1.066 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

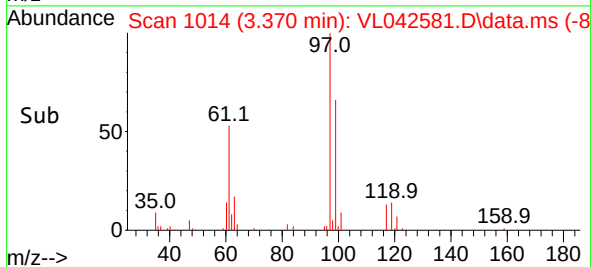
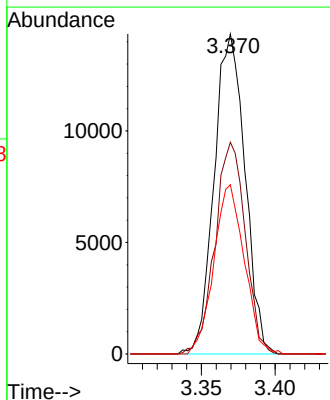
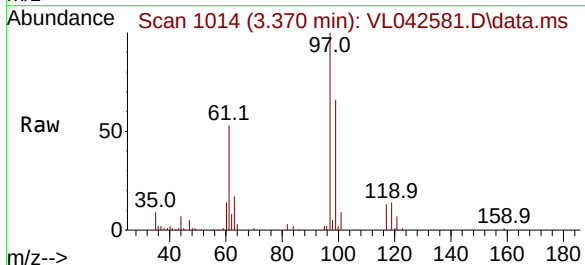
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

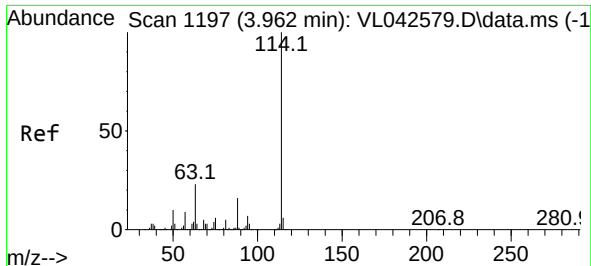
Tgt Ion: 61 Resp: 14880
 Ion Ratio Lower Upper
 61 100
 96 79.9 54.5 81.7
 98 45.2 33.4 50.2



#32
 1,1,1-Trichloroethane
 Concen: 1.045 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.000 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

Tgt Ion: 97 Resp: 20811
 Ion Ratio Lower Upper
 97 100
 99 65.2 51.0 76.6
 61 52.3 39.4 59.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

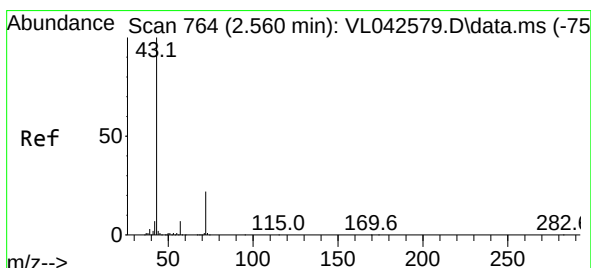
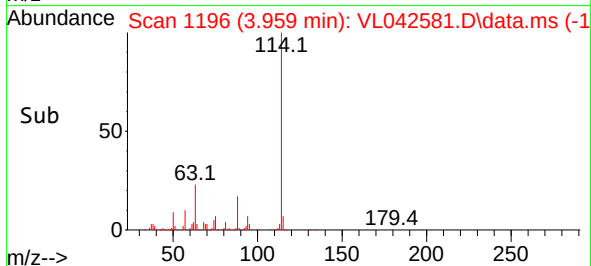
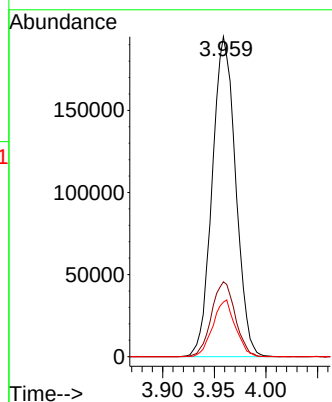
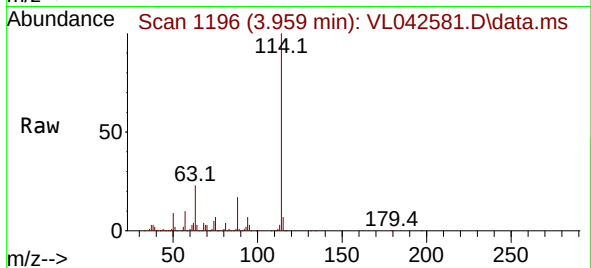
Tgt Ion:114 Resp: 307159

Ion Ratio Lower Upper

114 100

63 23.8 19.0 28.6

88 17.1 13.6 20.4



#34

2-Butanone

Concen: 1.057 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.000 min

Lab File: VL042581.D

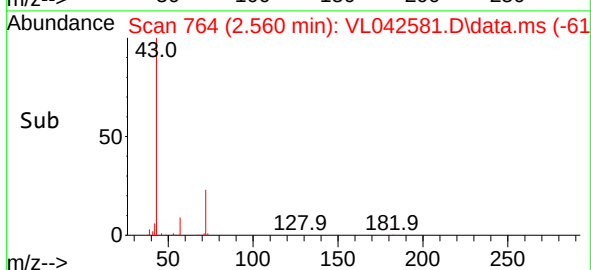
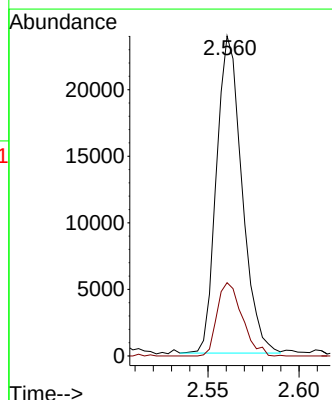
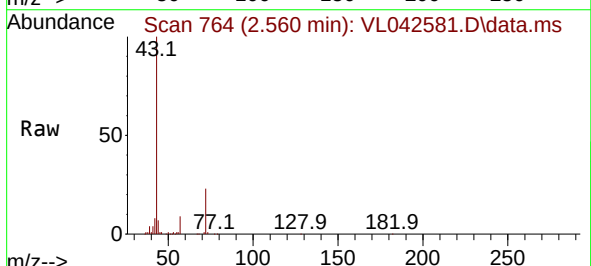
Acq: 29 May 2025 12:15

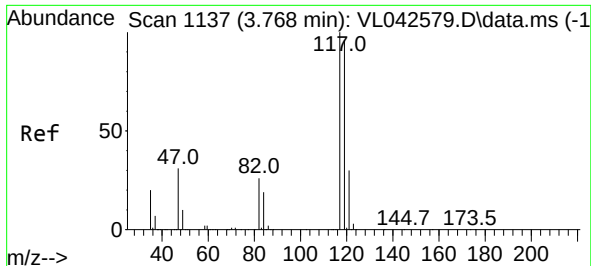
Tgt Ion: 43 Resp: 23148

Ion Ratio Lower Upper

43 100

72 22.7 17.7 26.5

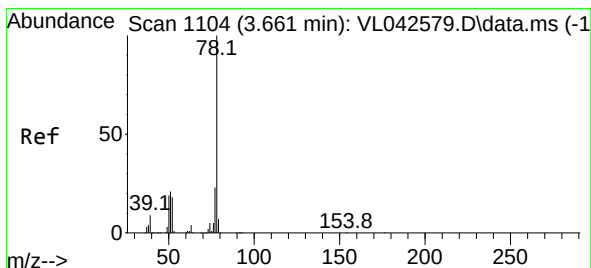
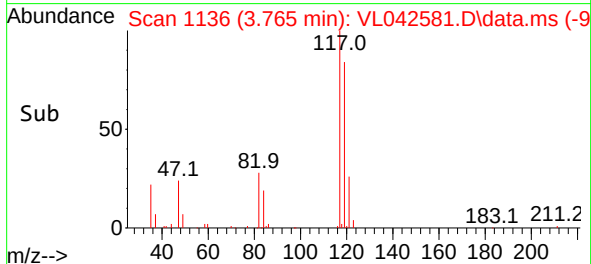
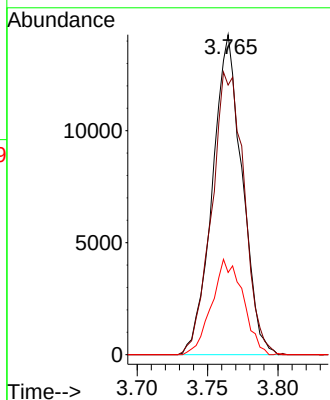
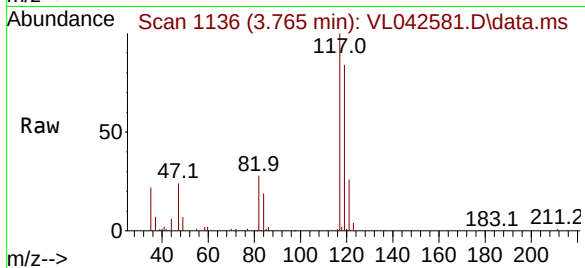




#35
Carbon Tetrachloride
Concen: 1.036 ppbv
RT: 3.765 min Scan# 1136
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

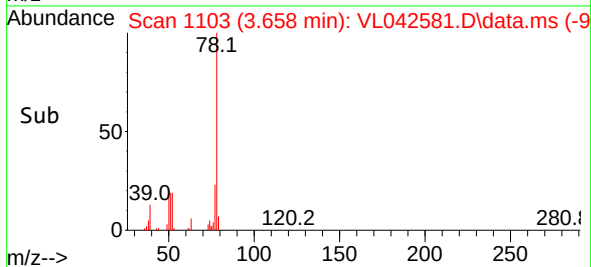
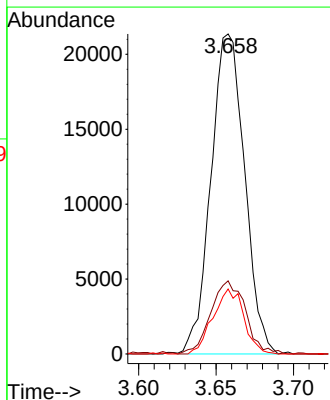
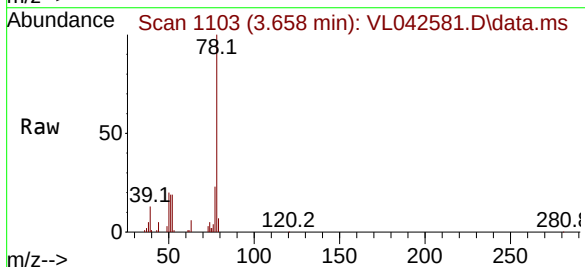
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

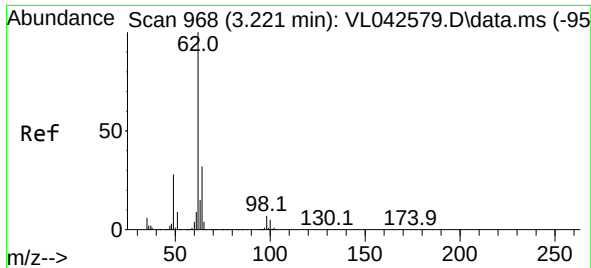
Tgt Ion:117 Resp: 21013
Ion Ratio Lower Upper
117 100
119 84.3 76.8 115.2
121 25.7 24.3 36.5



#36
Benzene
Concen: 1.068 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion: 78 Resp: 32310
Ion Ratio Lower Upper
78 100
77 22.9 18.2 27.2
50 20.3 15.2 22.8





#37

1,2-Dichloroethane

Concen: 1.039 ppbv

RT: 3.218 min Scan# 9

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_1

ClientSampleId :

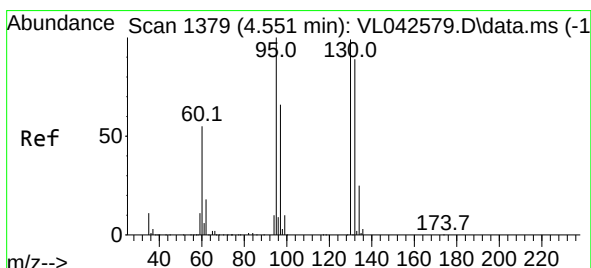
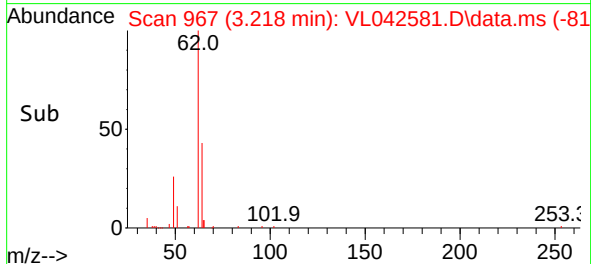
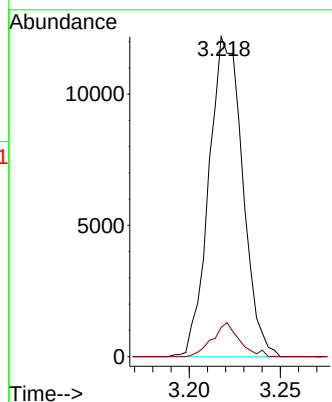
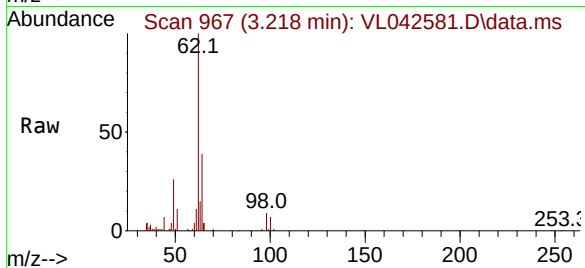
VSTDIC001

Tgt Ion: 62 Resp: 15623

Ion Ratio Lower Upper

62 100

98 8.6 6.1 9.1



#38

Trichloroethene

Concen: 1.078 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.000 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Tgt Ion:130 Resp: 13969

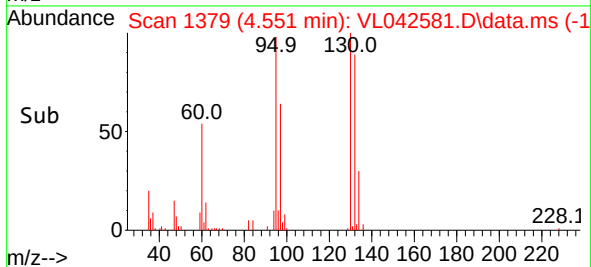
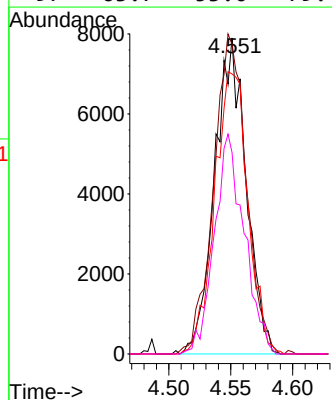
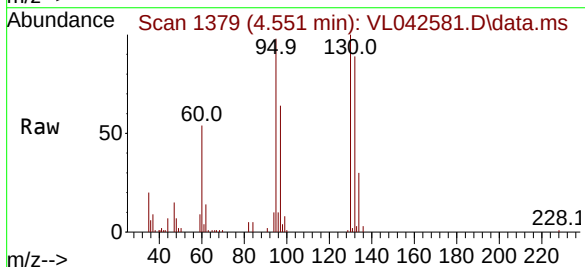
Ion Ratio Lower Upper

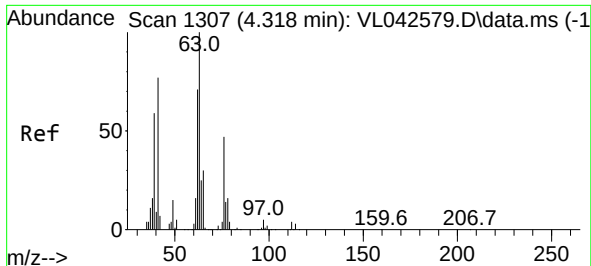
130 100

95 97.9 80.6 121.0

132 88.6 71.8 107.6

97 63.7 53.0 79.4





#39

1,2-Dichloropropane

Concen: 1.027 ppbv

RT: 4.321 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

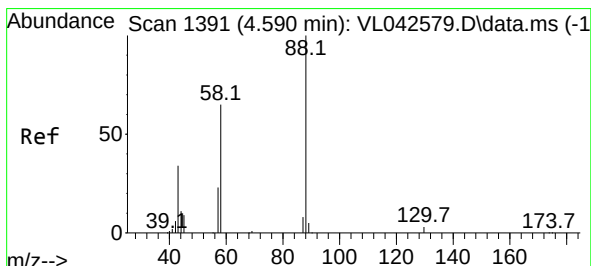
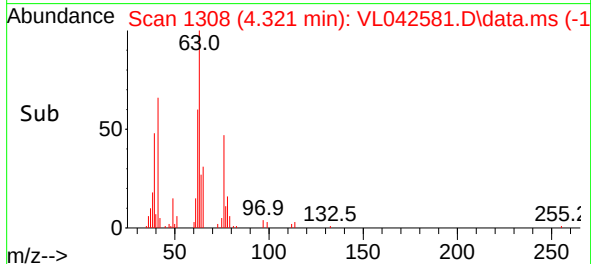
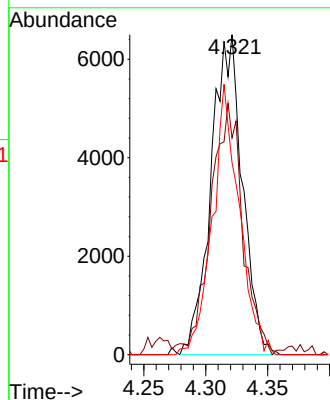
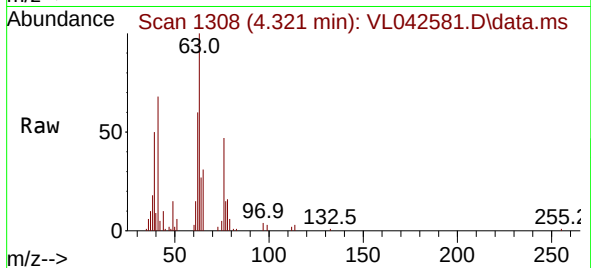
Tgt Ion: 63 Resp: 11488

Ion Ratio Lower Upper

63 100

41 66.4 61.8 92.6

62 60.0 56.6 85.0



#40

1,4-Dioxane

Concen: 0.332 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Tgt Ion: 88 Resp: 1578

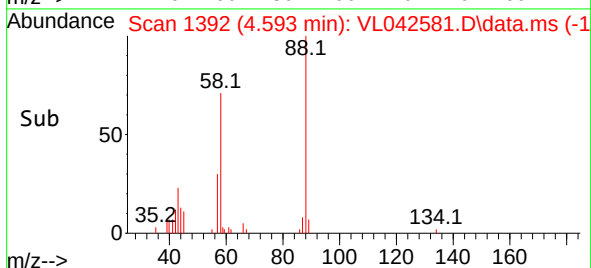
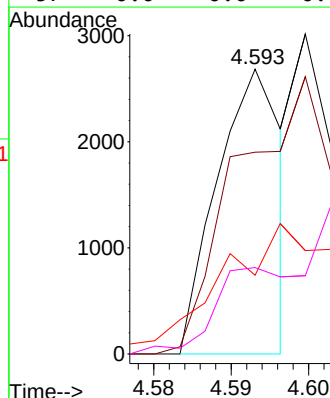
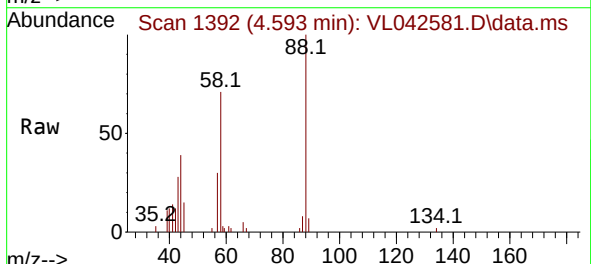
Ion Ratio Lower Upper

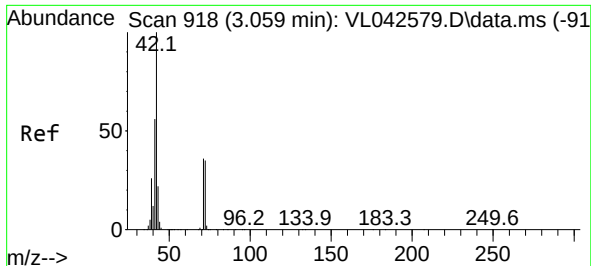
88 100

58 0.0 55.8 83.8#

43 0.0 24.8 37.2#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 1.069 ppbv

RT: 3.062 min Scan# 918

Delta R.T. 0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

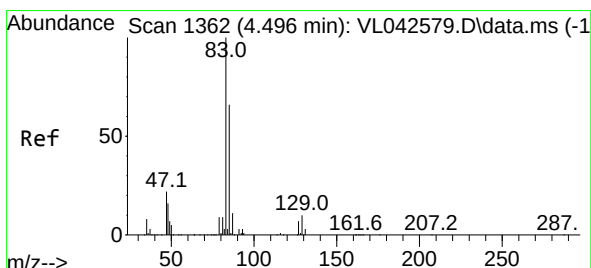
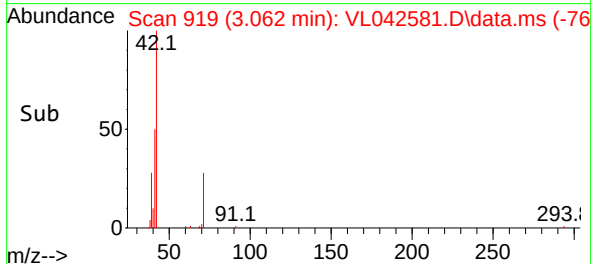
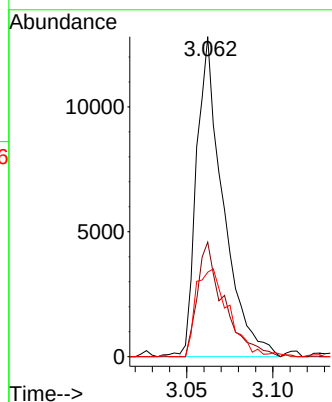
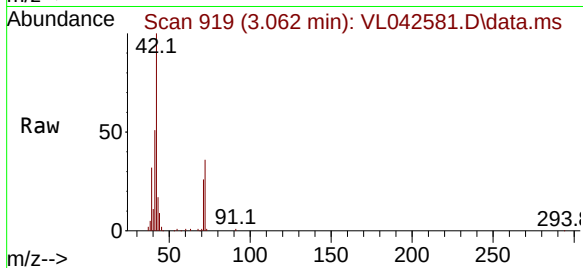
Tgt Ion: 42 Resp: 13711

Ion Ratio Lower Upper

42 100

72 36.1 28.9 43.3

71 34.6 28.5 42.7



#42

Bromodichloromethane

Concen: 1.060 ppbv

RT: 4.490 min Scan# 1360

Delta R.T. -0.006 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

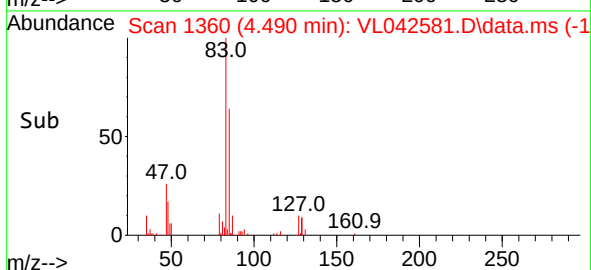
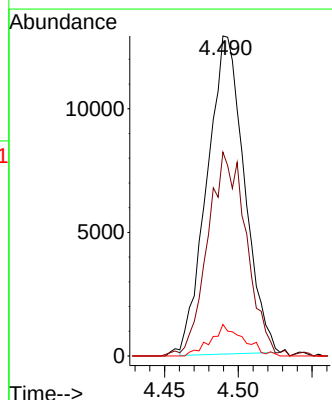
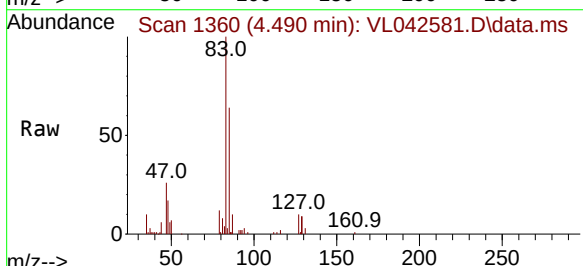
Tgt Ion: 83 Resp: 22628

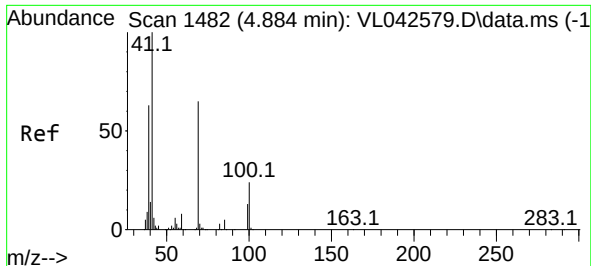
Ion Ratio Lower Upper

83 100

85 63.4 52.7 79.1

127 10.0 5.8 8.6





#43

Methyl Methacrylate

Concen: 1.007 ppbv

RT: 4.884 min Scan# 1482

Delta R.T. 0.000 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

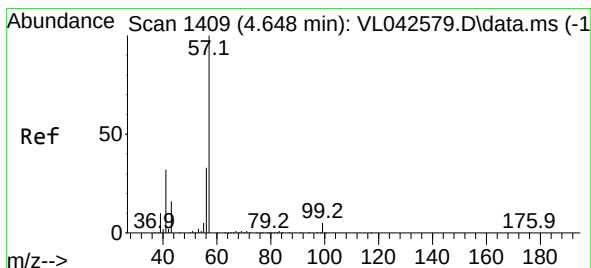
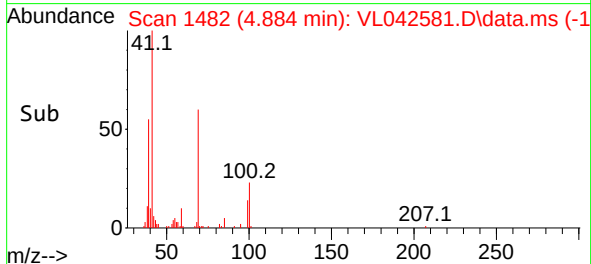
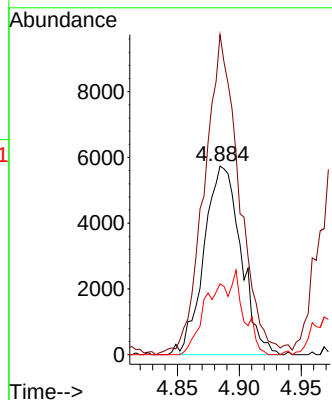
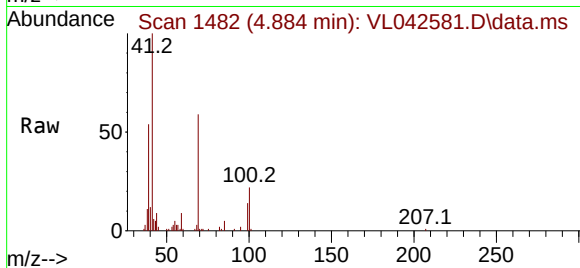
Tgt Ion: 69 Resp: 11810

Ion Ratio Lower Upper

69 100

41 158.9 124.6 187.0

100 41.9 29.9 44.9



#44

2,2,4-Trimethylpentane

Concen: 0.588 ppbv

RT: 4.645 min Scan# 1408

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

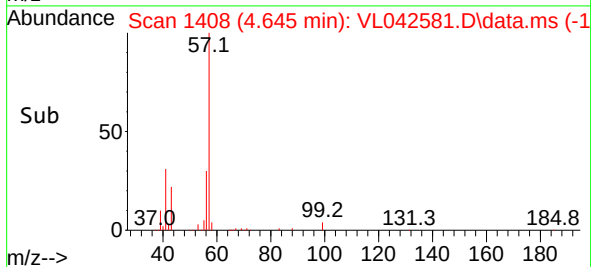
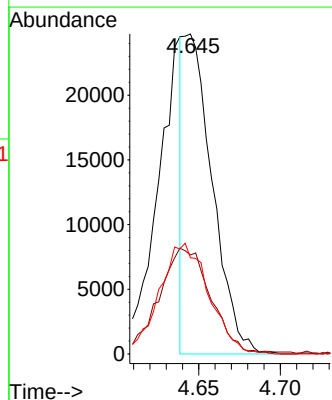
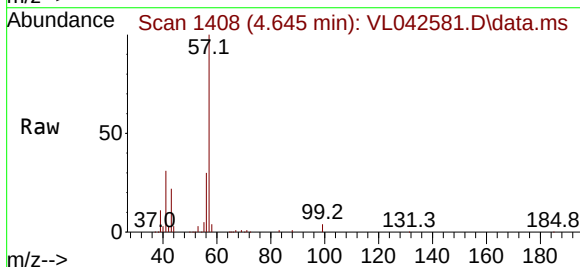
Tgt Ion: 57 Resp: 30389

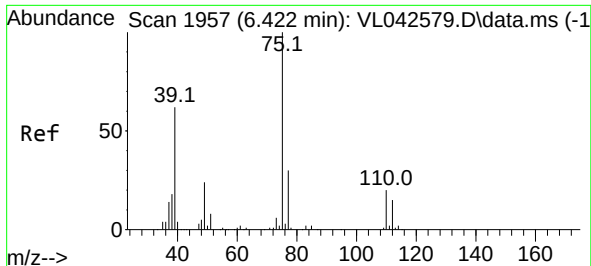
Ion Ratio Lower Upper

57 100

41 62.0 26.1 39.1#

56 60.0 25.9 38.9#

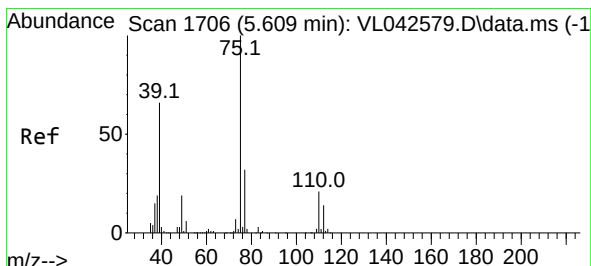
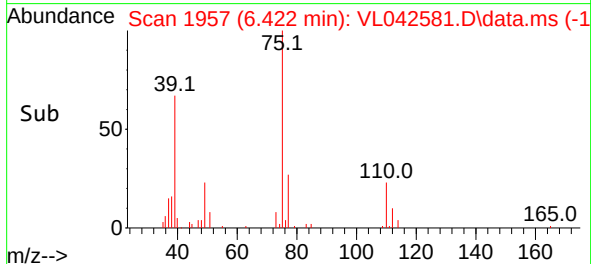
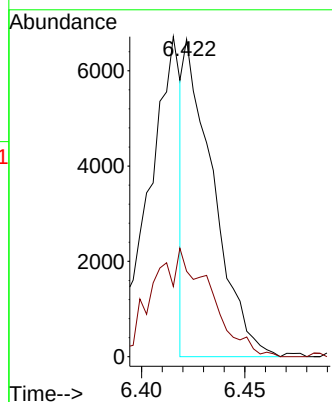
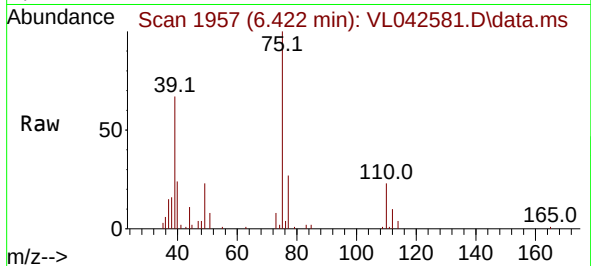




#45
 t-1,3-Dichloropropene
 Concen: 0.490 ppbv
 RT: 6.422 min Scan# 1957
 Delta R.T. 0.000 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

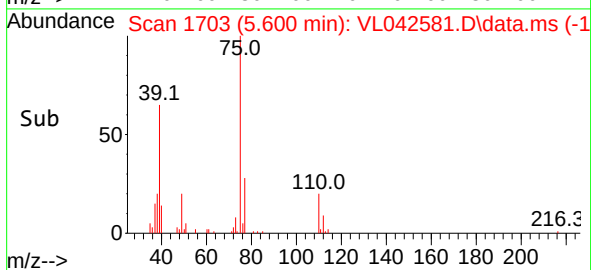
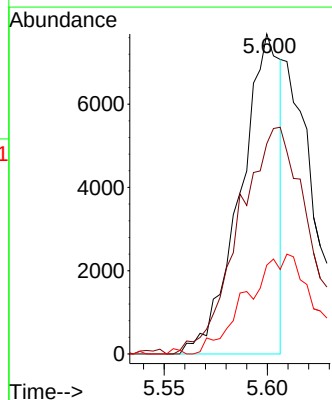
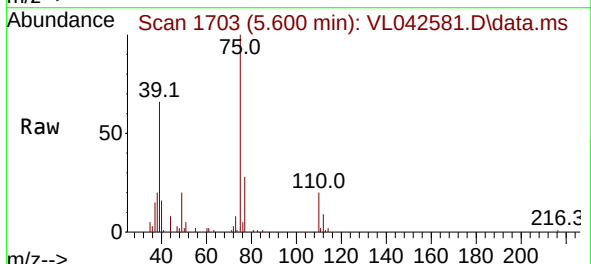
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

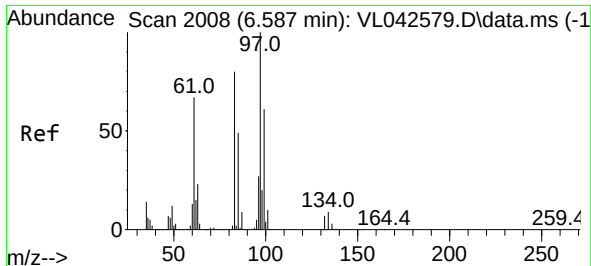
Tgt Ion: 75 Resp: 6581
 Ion Ratio Lower Upper
 75 100
 77 26.9 24.2 36.2



#46
 cis-1,3-Dichloropropene
 Concen: 0.614 ppbv
 RT: 5.600 min Scan# 1703
 Delta R.T. -0.010 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

Tgt Ion: 75 Resp: 10330
 Ion Ratio Lower Upper
 75 100
 39 64.6 52.7 79.1
 77 26.6 25.8 38.8

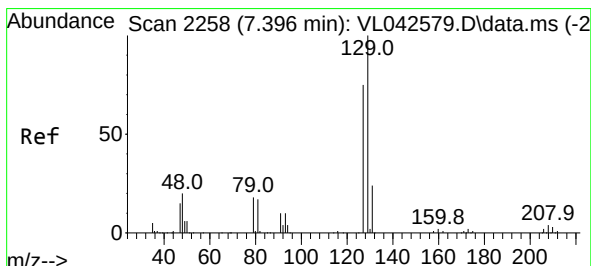
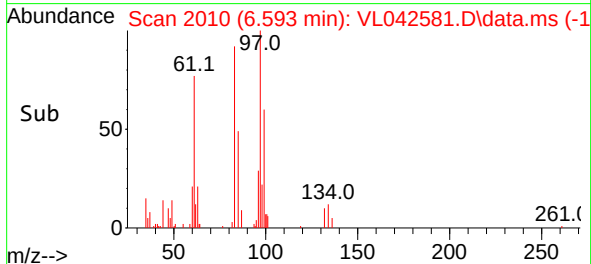
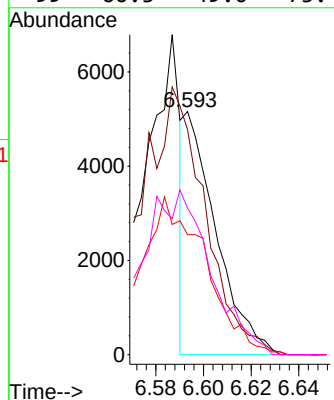
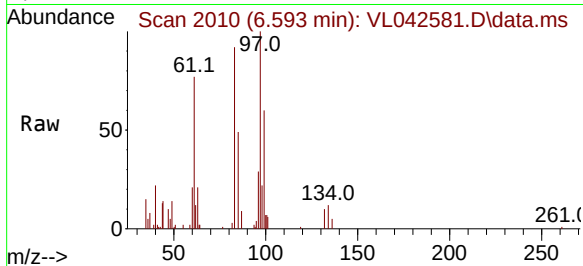




#47
 1,1,2-Trichloroethane
 Concen: 0.409 ppbv
 RT: 6.593 min Scan# 2008
 Delta R.T. 0.007 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

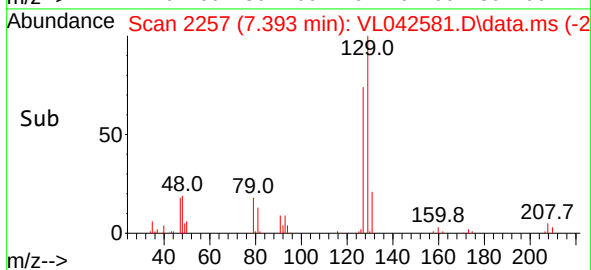
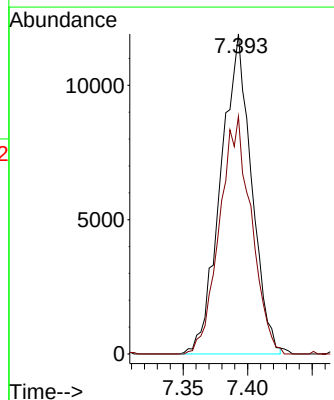
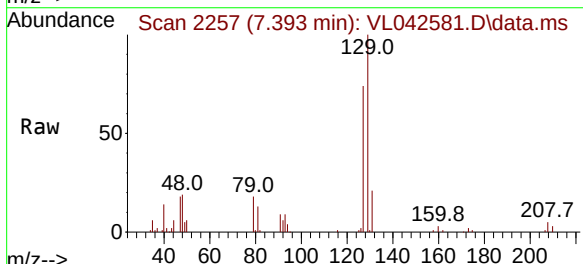
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

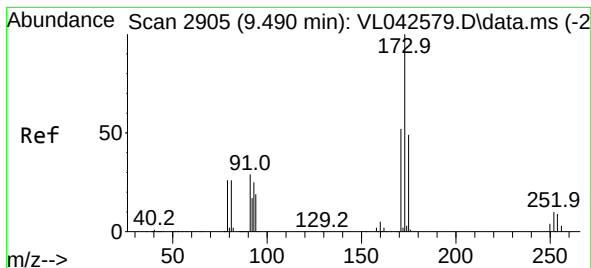
Tgt Ion: 97	Resp: 4735
Ion Ratio	Lower Upper
97 100	
83 91.3	63.9 95.9
85 48.2	39.2 58.8
99 60.3	49.0 73.4



#48
 Dibromochloromethane
 Concen: 1.064 ppbv
 RT: 7.393 min Scan# 2257
 Delta R.T. -0.003 min
 Lab File: VL042581.D
 Acq: 29 May 2025 12:15

Tgt Ion:129	Resp:	19719	
Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.0	116.9





#49

Bromoform

Concen: 0.996 ppbv

RT: 9.484 min Scan# 2903

Delta R.T. -0.006 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

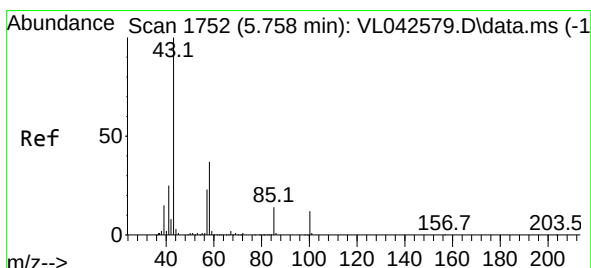
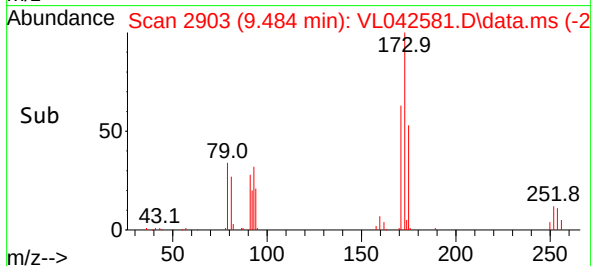
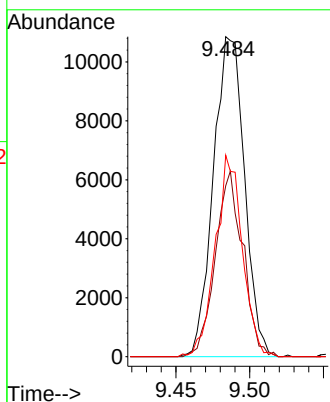
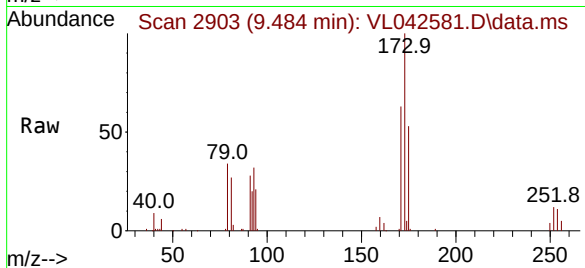
Tgt Ion:173 Resp: 15937

Ion Ratio Lower Upper

173 100

175 51.3 38.7 58.1

171 54.6 41.2 61.8



#50

4-Methyl-2-Pentanone

Concen: 1.037 ppbv

RT: 5.765 min Scan# 1754

Delta R.T. 0.007 min

Lab File: VL042581.D

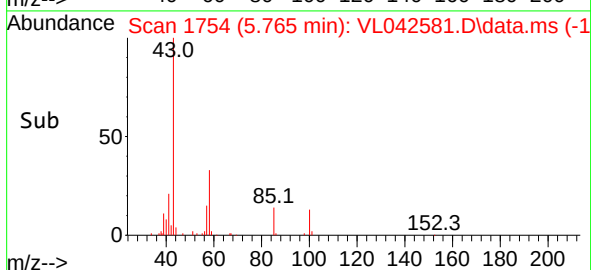
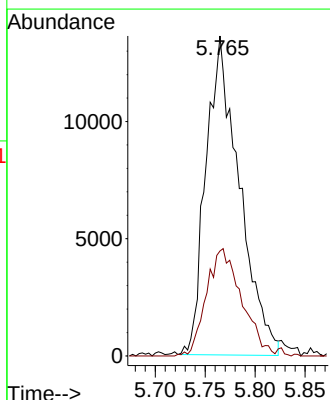
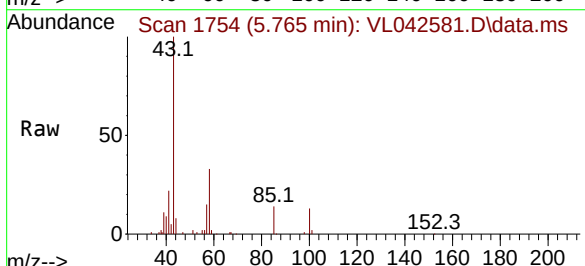
Acq: 29 May 2025 12:15

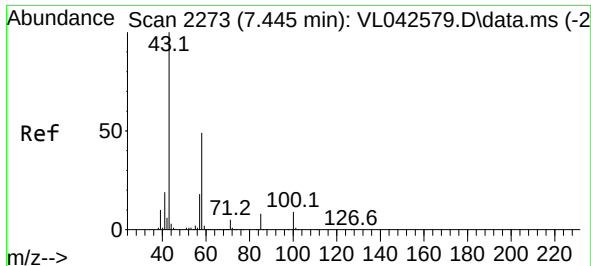
Tgt Ion: 43 Resp: 31646

Ion Ratio Lower Upper

43 100

58 36.0 28.3 42.5

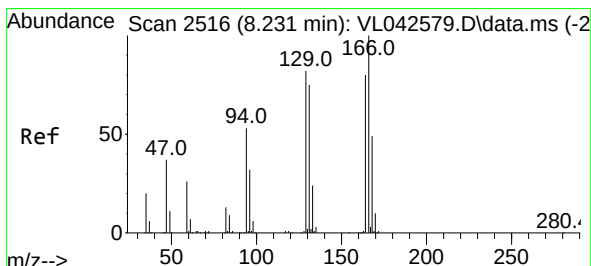
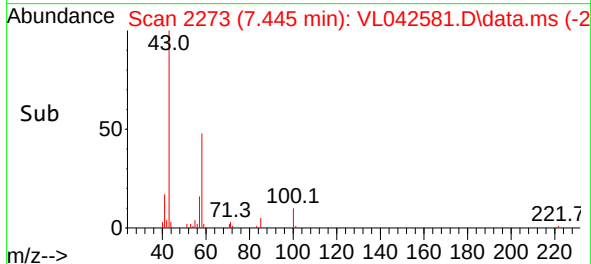
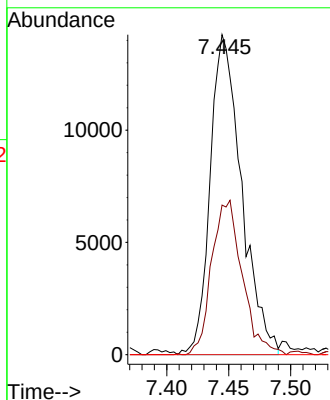
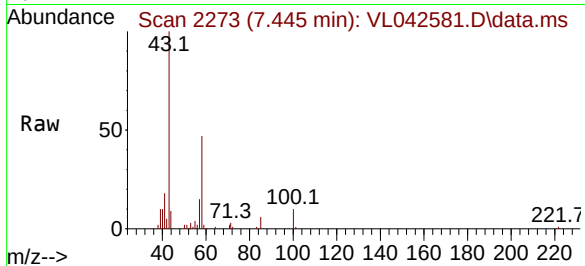




#51
2-Hexanone
Concen: 1.043 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

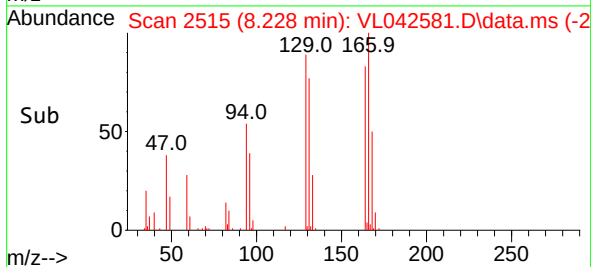
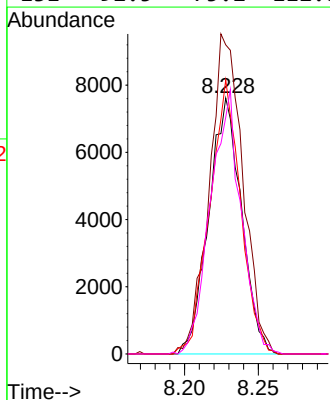
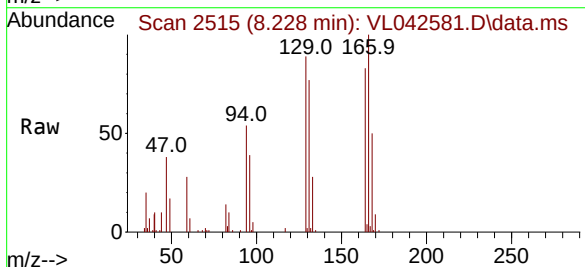
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

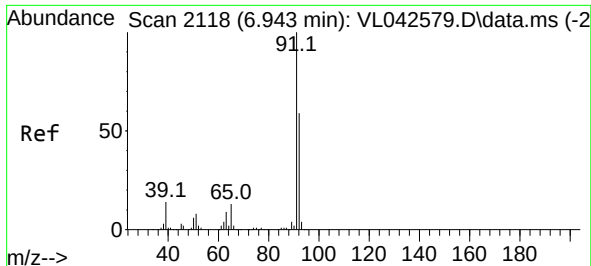
Tgt Ion: 43 Resp: 25135
Ion Ratio Lower Upper
43 100
58 47.5 39.9 59.9
98 0.1 0.1 0.1#



#52
Tetrachloroethene
Concen: 1.041 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion: 164 Resp: 11770
Ion Ratio Lower Upper
164 100
166 120.8 100.0 150.0
129 107.2 82.2 123.4
131 92.5 75.2 112.8





#53

Toluene

Concen: 1.045 ppbv

RT: 6.936 min Scan# 2116

Delta R.T. -0.006 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

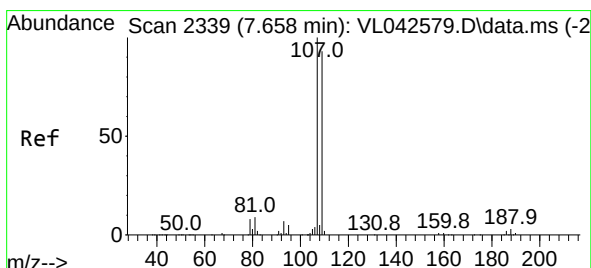
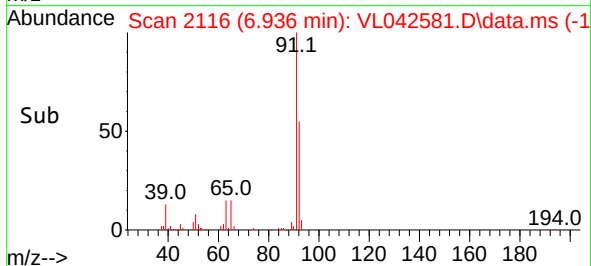
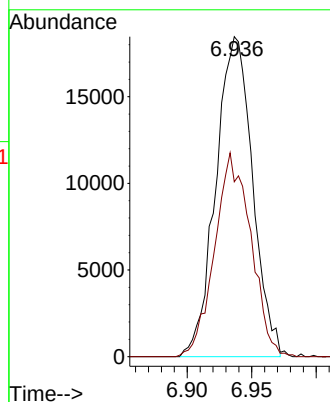
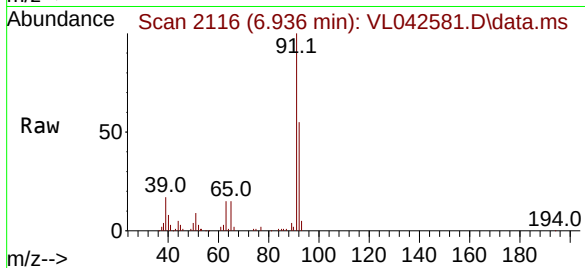
VSTDIC001

Tgt Ion: 91 Resp: 36540

Ion Ratio Lower Upper

91 100

92 62.6 48.2 72.4



#54

1,2-Dibromoethane

Concen: 1.055 ppbv

RT: 7.658 min Scan# 2339

Delta R.T. 0.000 min

Lab File: VL042581.D

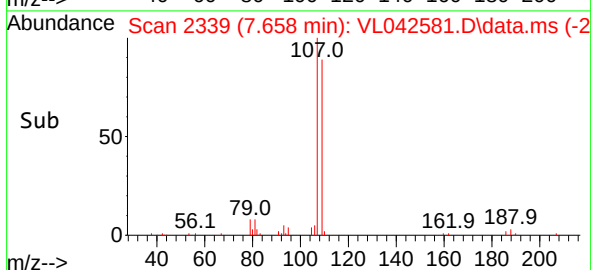
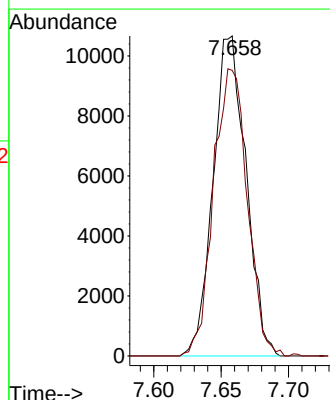
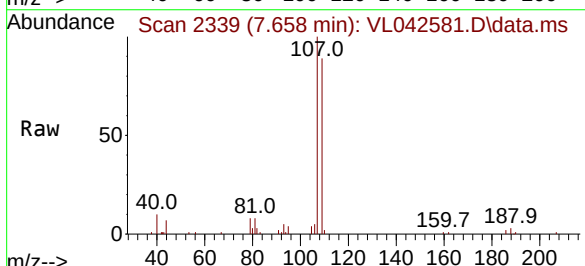
Acq: 29 May 2025 12:15

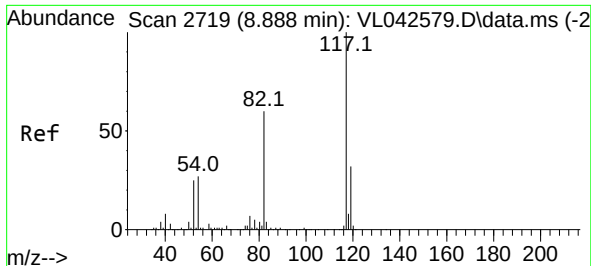
Tgt Ion: 107 Resp: 18114

Ion Ratio Lower Upper

107 100

109 89.3 74.3 111.5

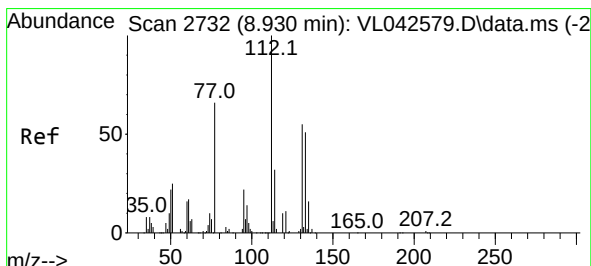
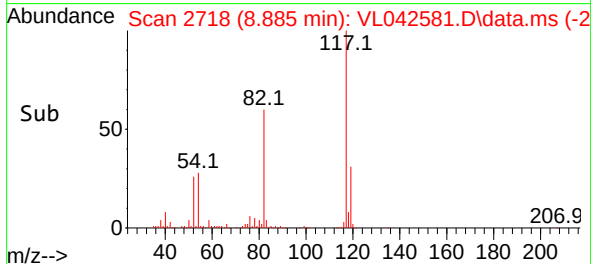
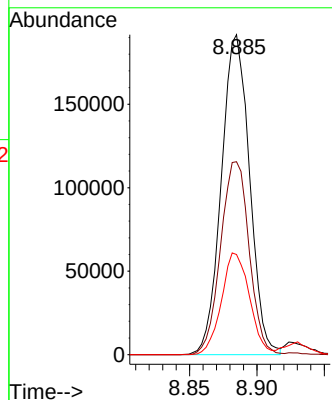
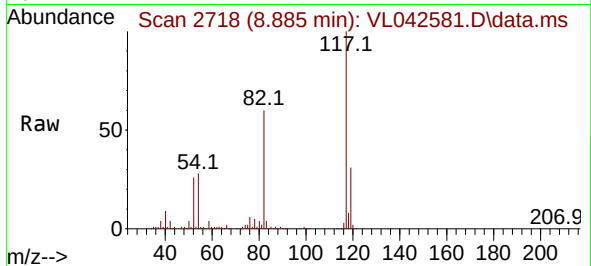




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

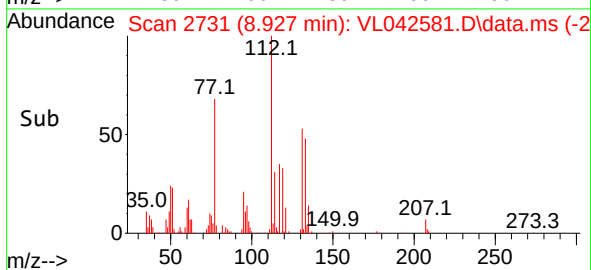
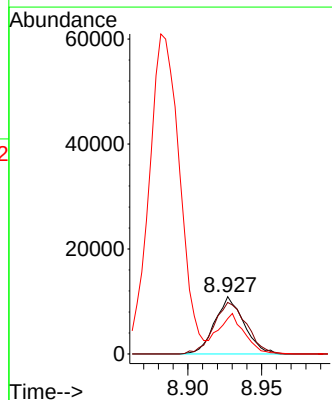
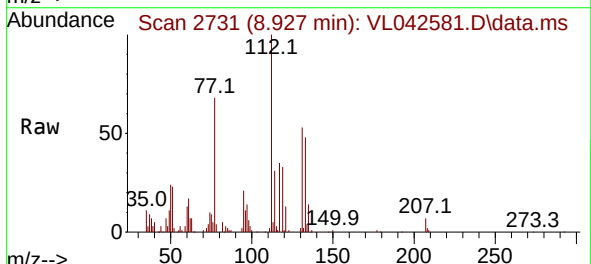
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

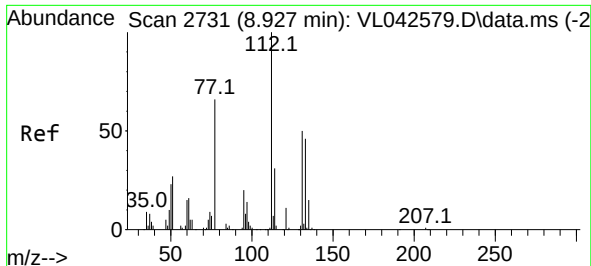
Tgt Ion:117 Resp: 279402
Ion Ratio Lower Upper
117 100
82 61.5 51.2 76.8
119 31.7 26.3 39.5



#56
1,1,1,2-Tetrachloroethane
Concen: 1.066 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion:131 Resp: 14971
Ion Ratio Lower Upper
131 100
133 101.1 75.0 112.6
119 62.0 50.8 76.2





#57

Chlorobenzene

Concen: 1.058 ppbv

RT: 8.927 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

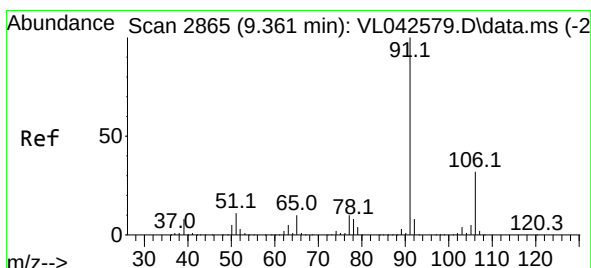
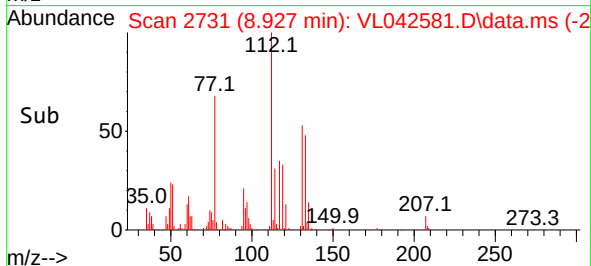
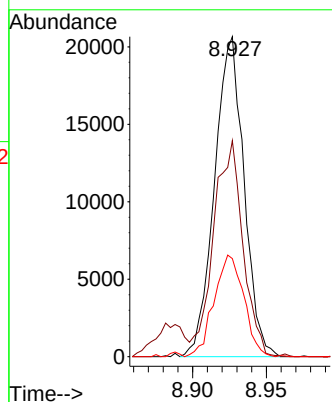
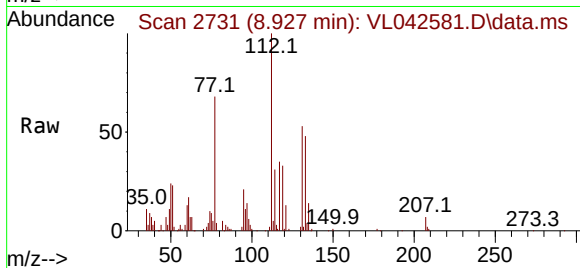
Tgt Ion:112 Resp: 28714

Ion Ratio Lower Upper

112 100

77 67.1 53.5 80.3

114 30.4 27.8 34.0



#58

Ethyl Benzene

Concen: 1.053 ppbv

RT: 9.357 min Scan# 2864

Delta R.T. -0.003 min

Lab File: VL042581.D

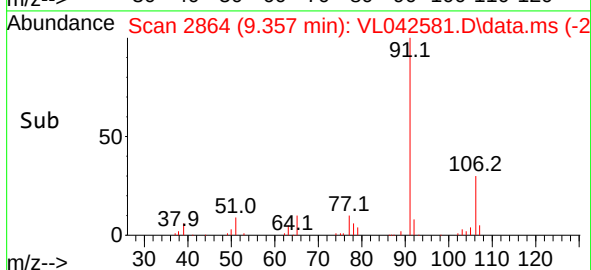
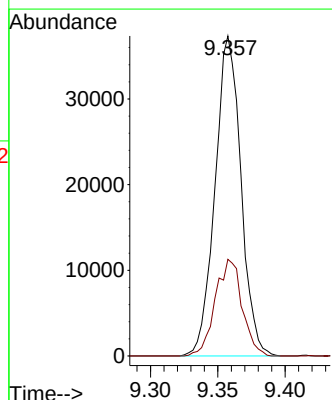
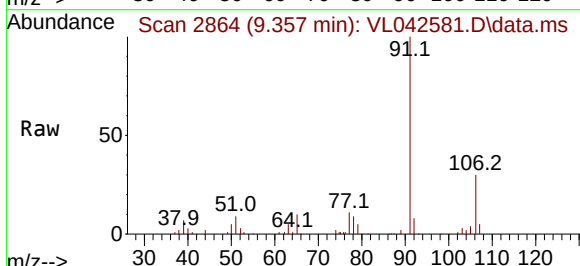
Acq: 29 May 2025 12:15

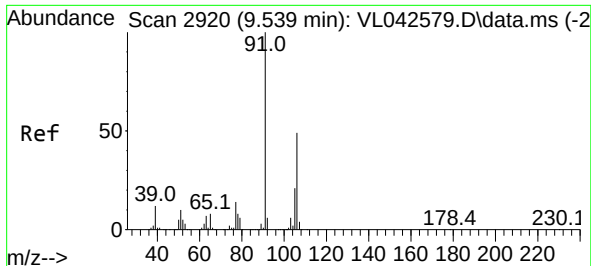
Tgt Ion: 91 Resp: 49899

Ion Ratio Lower Upper

91 100

106 30.2 25.9 38.9





#59

m/p-Xylene

Concen: 1.163 ppbv

RT: 9.535 min Scan# 29

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_1

ClientSampleId :

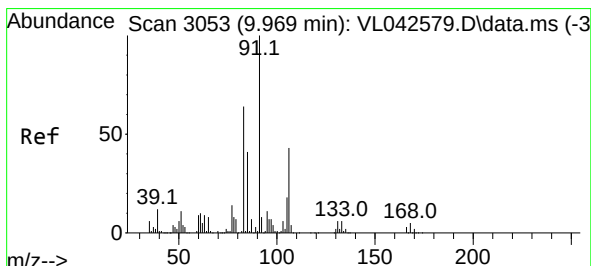
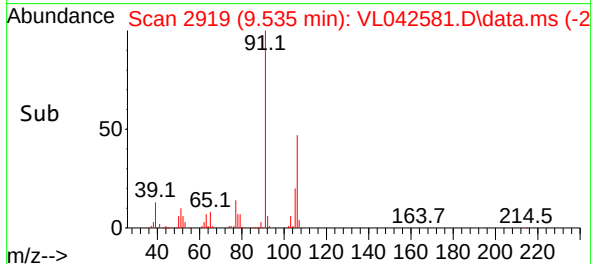
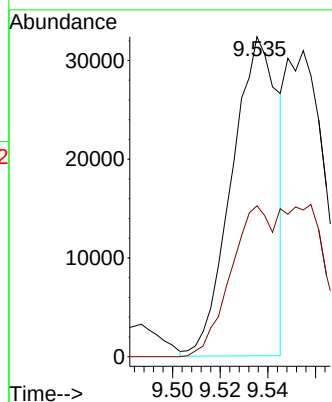
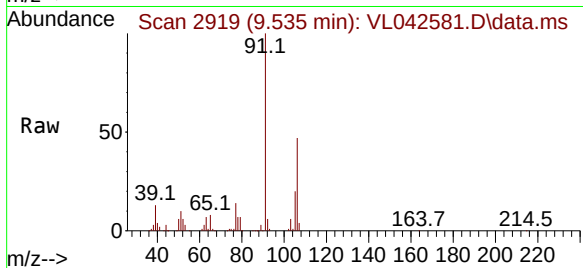
VSTDIC001

Tgt Ion: 91 Resp: 43372

Ion Ratio Lower Upper

91 100

106 0.0 38.8 58.2#



#60

o-Xylene

Concen: 1.059 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.003 min

Lab File: VL042581.D

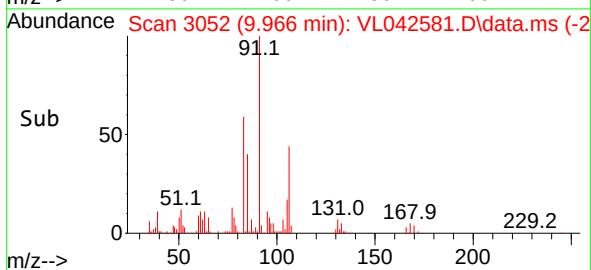
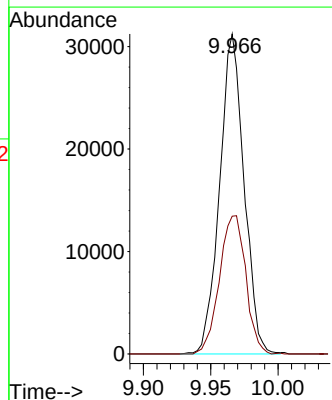
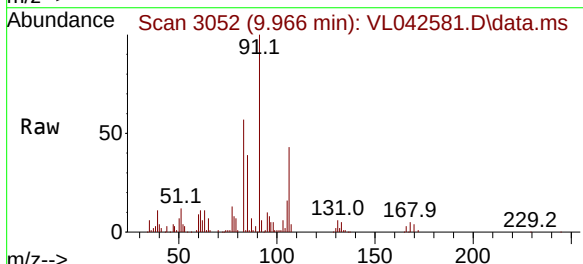
Acq: 29 May 2025 12:15

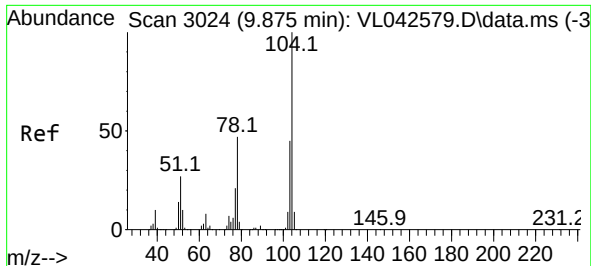
Tgt Ion: 91 Resp: 39398

Ion Ratio Lower Upper

91 100

106 46.6 22.9 68.5

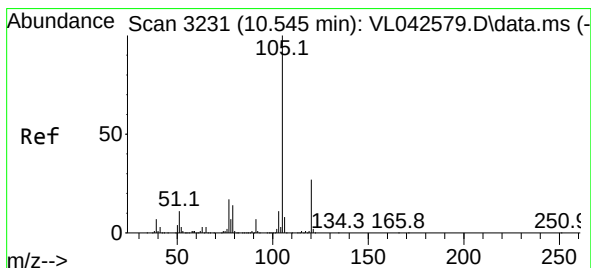
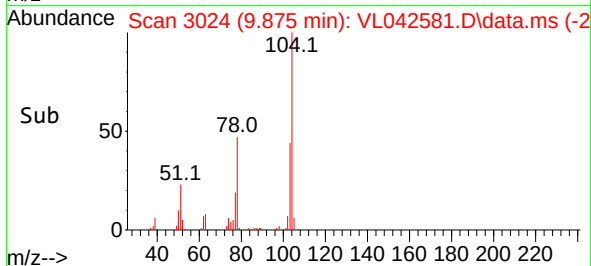
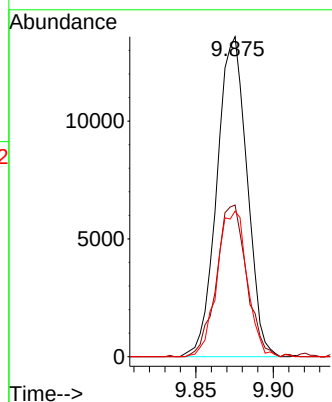
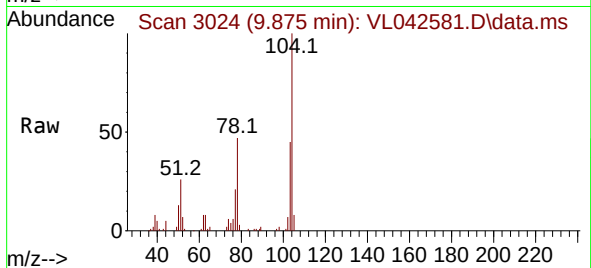




#61
Styrene
Concen: 1.045 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

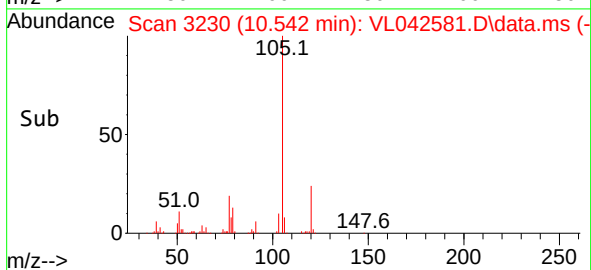
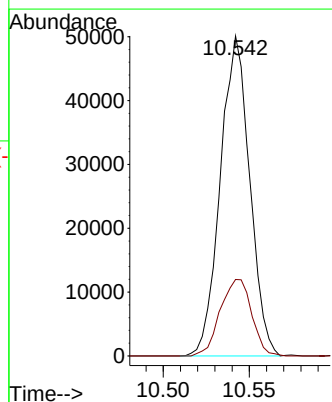
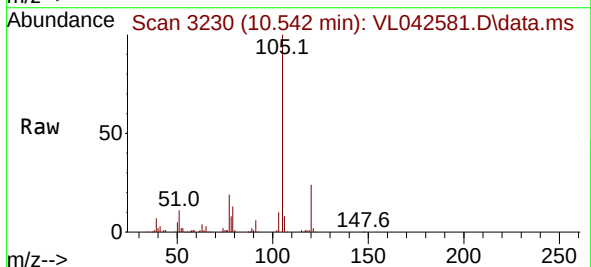
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

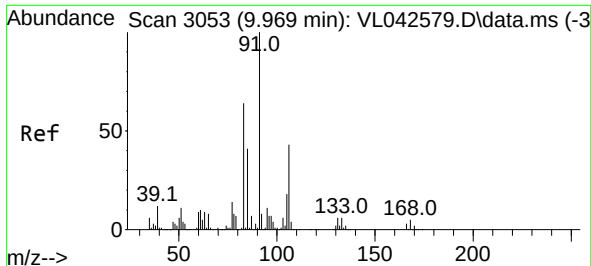
Tgt Ion:104 Resp: 18371
Ion Ratio Lower Upper
104 100
78 47.6 38.2 57.4
103 45.5 36.7 55.1



#62
Isopropylbenzene
Concen: 1.083 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion:105 Resp: 59492
Ion Ratio Lower Upper
105 100
120 25.5 20.9 31.3

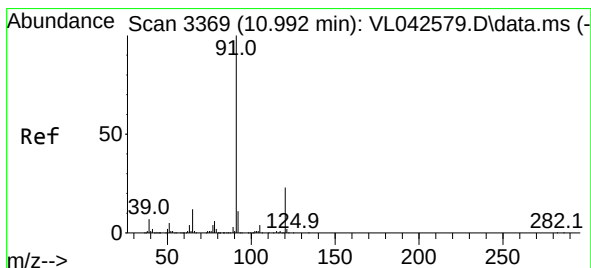
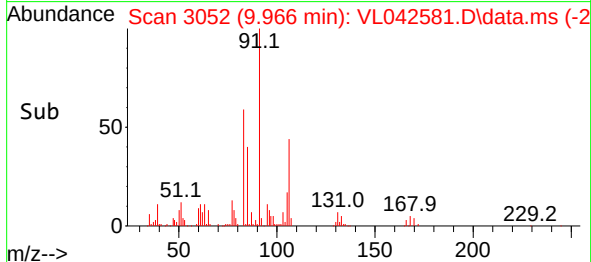
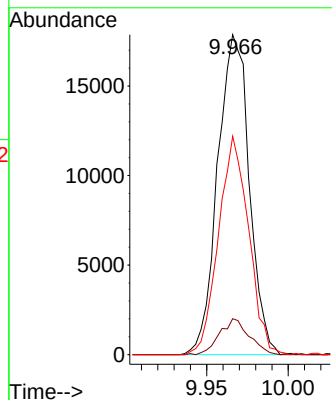
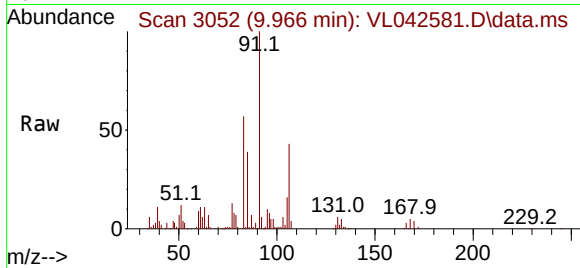




#63
1,1,2,2-Tetrachloroethane
Concen: 1.017 ppbv
RT: 9.966 min Scan# 3053
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

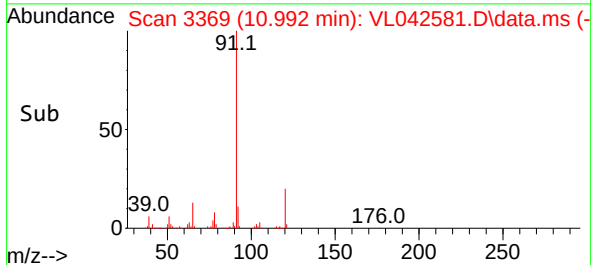
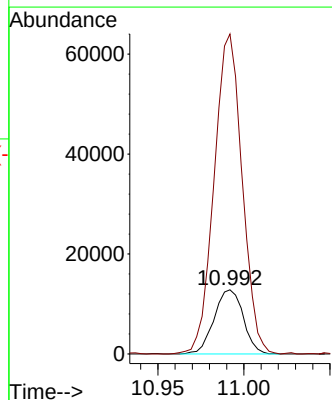
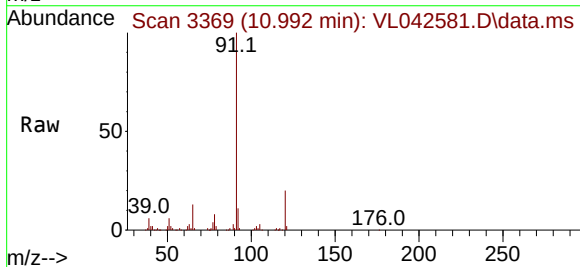
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

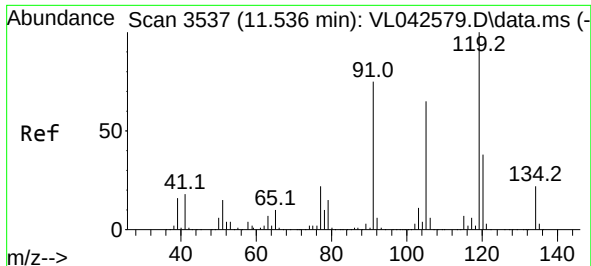
Tgt Ion: 83 Resp: 24057
Ion Ratio Lower Upper
83 100
131 10.5 4.8 14.4
85 65.3 32.5 97.4



#64
n-propylbenzene
Concen: 1.026 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion: 120 Resp: 15107
Ion Ratio Lower Upper
120 100
91 480.9 363.0 544.6

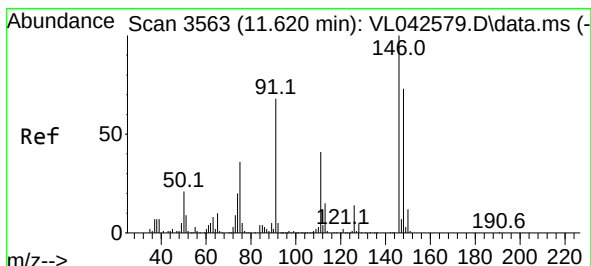
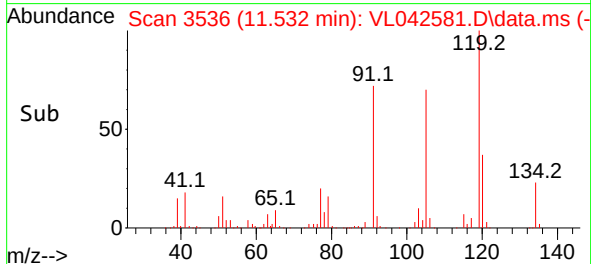
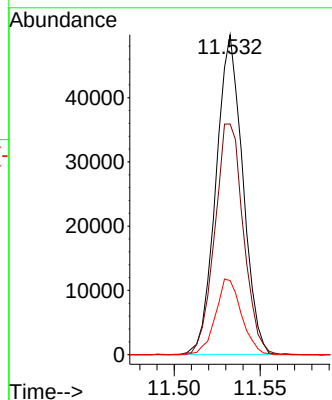
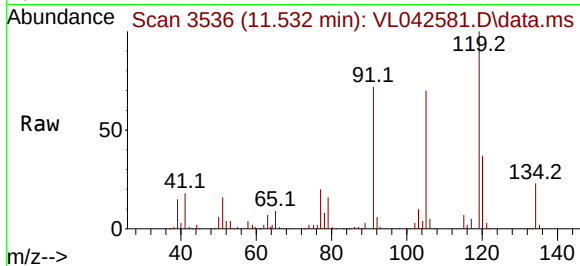




#65
tert-Butylbenzene
Concen: 1.077 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

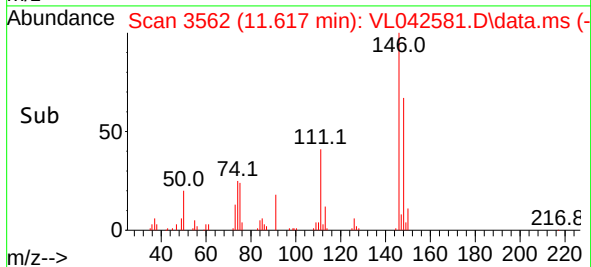
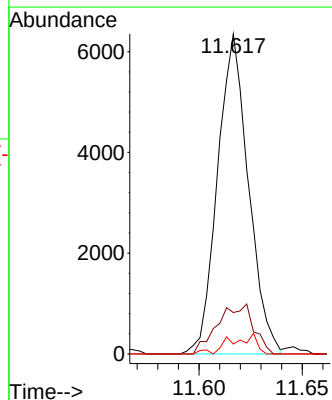
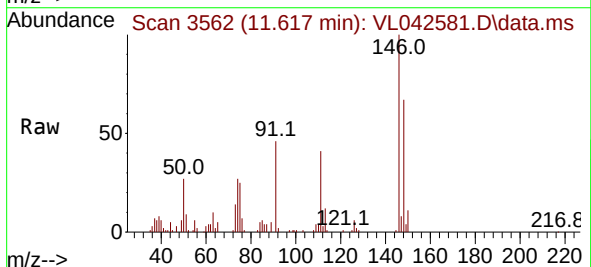
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

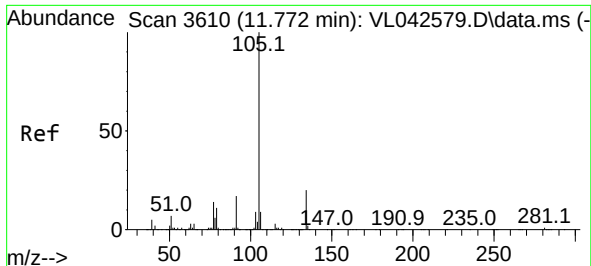
Tgt Ion:119 Resp: 53720
Ion Ratio Lower Upper
119 100
91 77.4 61.1 91.7
134 23.0 17.4 26.2



#66
Benzyl Chloride
Concen: 1.029 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion: 91 Resp: 6617
Ion Ratio Lower Upper
91 100
126 18.1 15.1 22.7
128 5.3 5.0 7.6





#67

sec-Butylbenzene

Concen: 1.093 ppbv

RT: 11.769 min Scan# 3609

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_1

ClientSampleId :

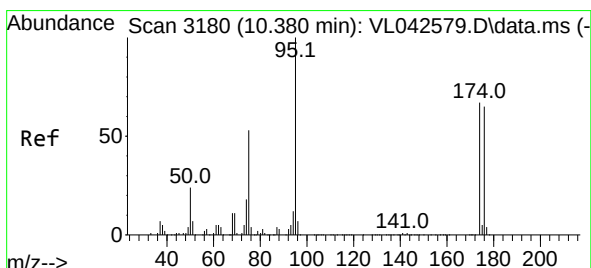
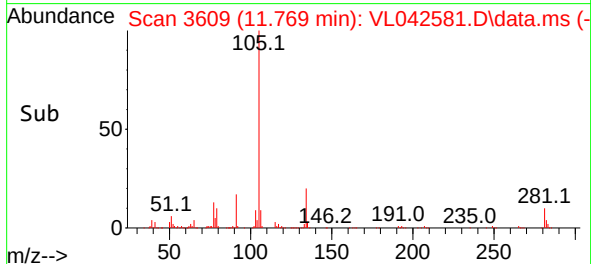
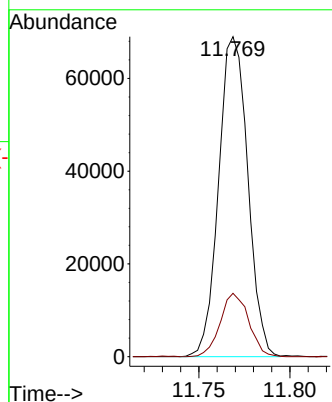
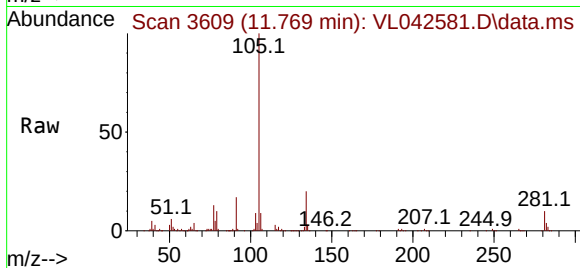
VSTDIC001

Tgt Ion:105 Resp: 76631

Ion Ratio Lower Upper

105 100

134 19.5 15.8 23.6



#68

1-Bromo-4-Fluorobenzene

Concen: 10.021 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

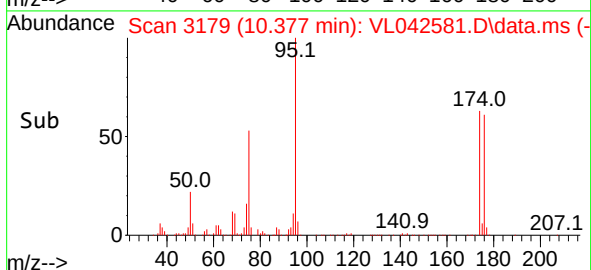
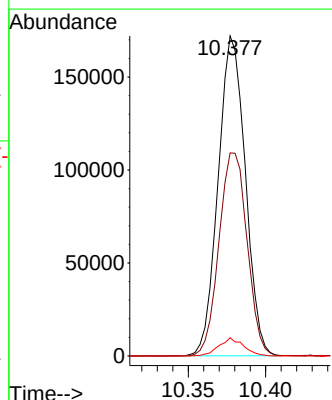
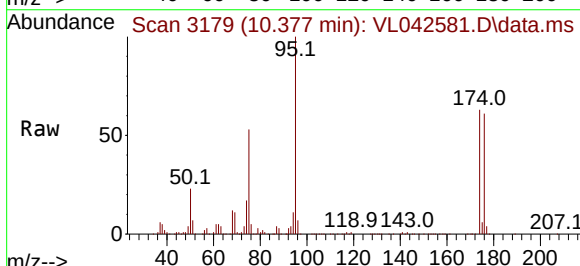
Tgt Ion: 95 Resp: 209886

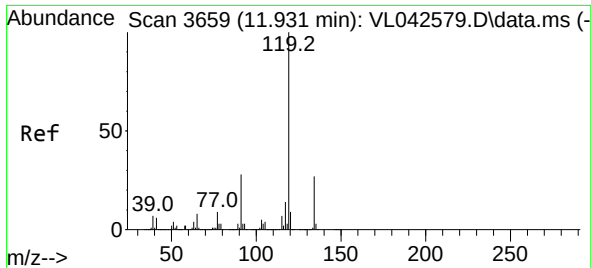
Ion Ratio Lower Upper

95 100

174 66.0 53.1 79.7

175 5.1 4.2 6.2

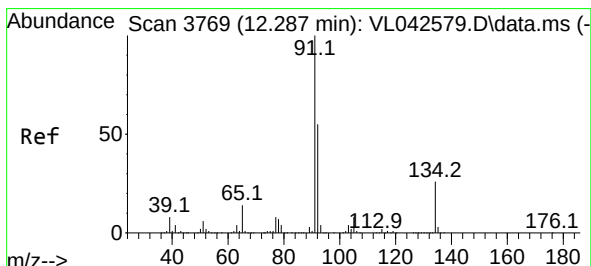
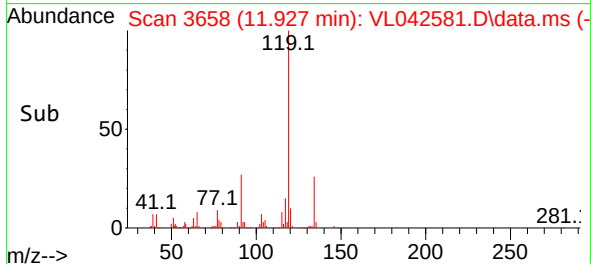
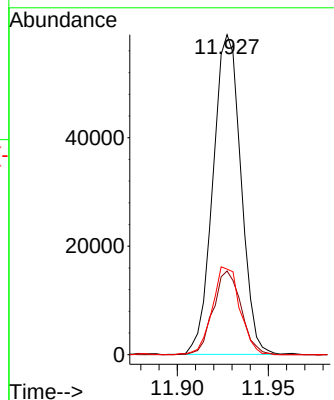
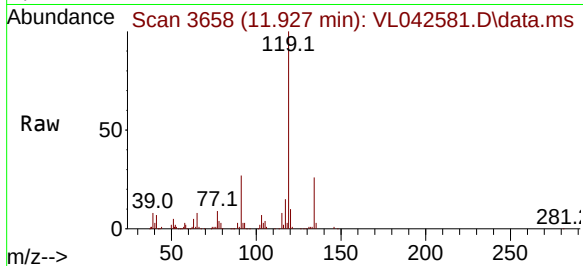




#69
p-Isopropyltoluene
Concen: 1.070 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

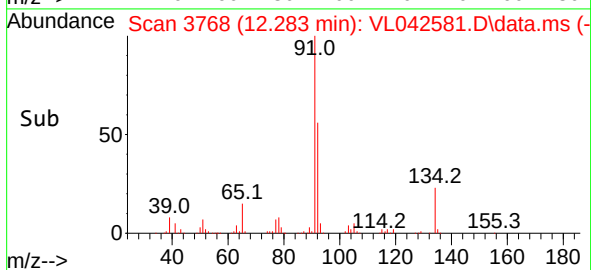
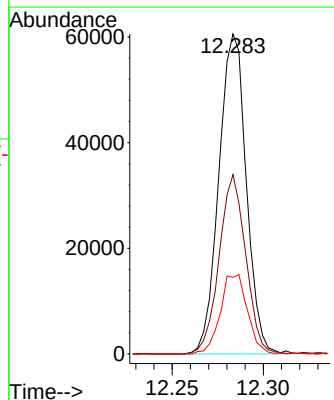
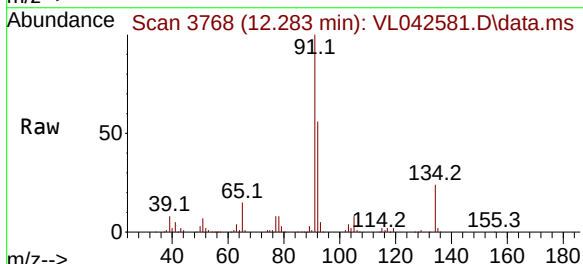
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

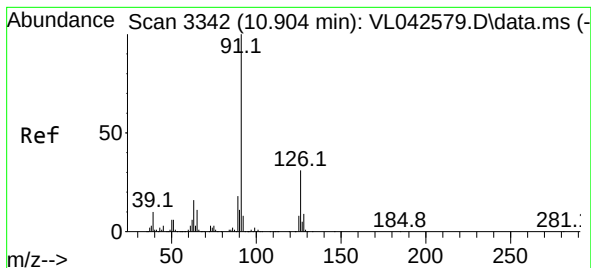
Tgt Ion:119 Resp: 62849
Ion Ratio Lower Upper
119 100
134 26.2 21.1 31.7
91 27.4 21.9 32.9



#70
n-Butylbenzene
Concen: 1.093 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion: 91 Resp: 63350
Ion Ratio Lower Upper
91 100
92 54.6 44.4 66.6
134 24.8 20.1 30.1

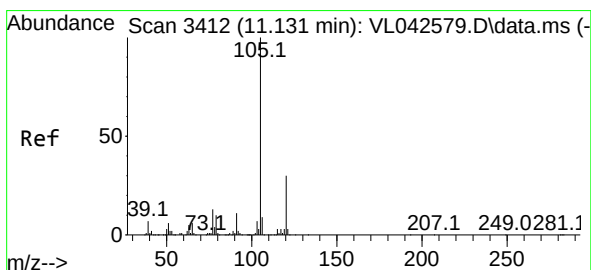
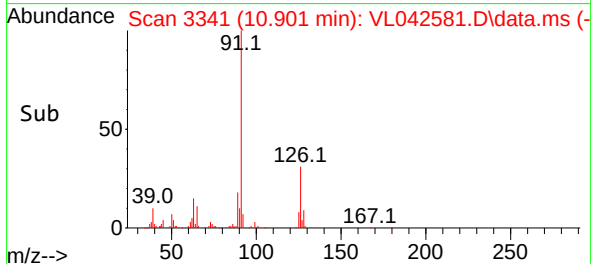
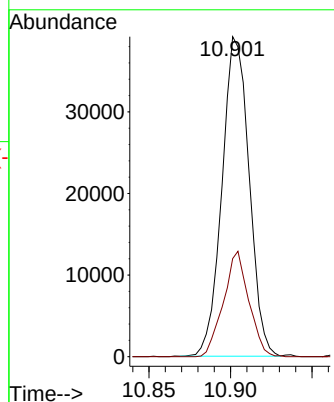
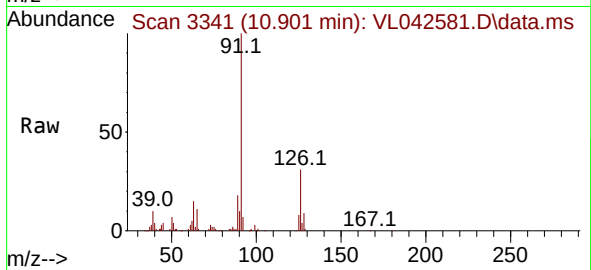




#71
2-Chlorotoluene
Concen: 1.080 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

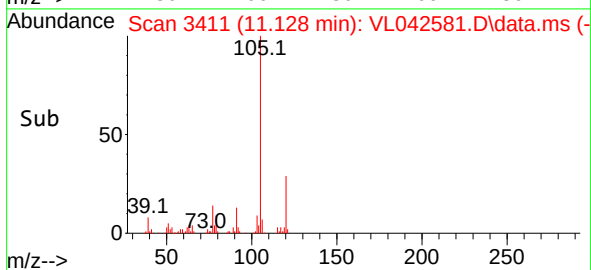
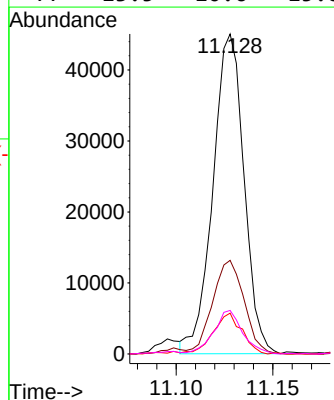
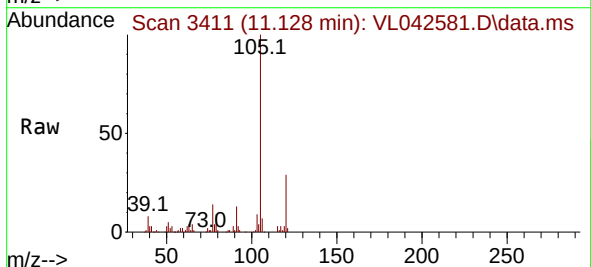
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

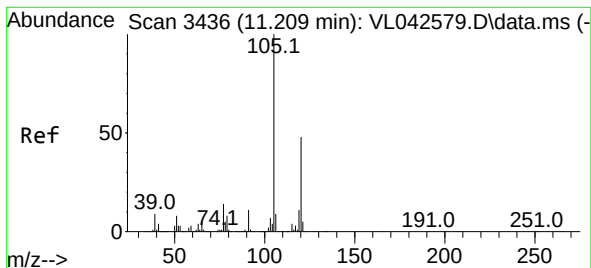
Tgt Ion: 91 Resp: 45250
Ion Ratio Lower Upper
91 100
126 30.9 12.6 50.4



#72
4-Ethyltoluene
Concen: 1.083 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion: 105 Resp: 50214
Ion Ratio Lower Upper
105 100
120 31.0 24.6 36.8
91 12.6 9.6 14.4
77 13.5 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 1.079 ppbv

RT: 11.206 min Scan# 34

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

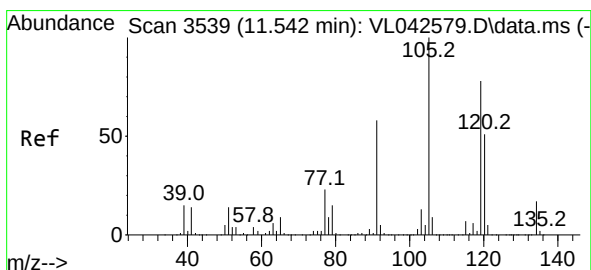
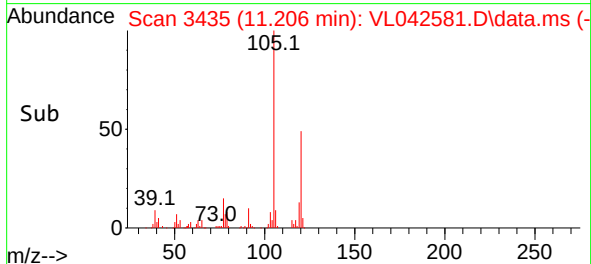
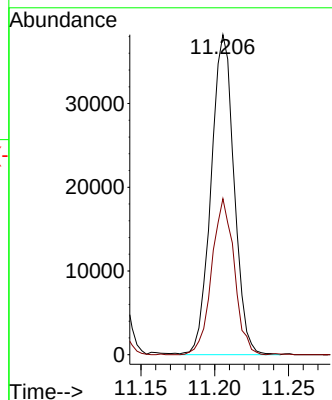
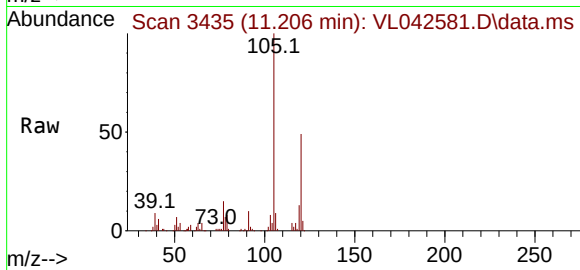
VSTDIC001

Tgt Ion:105 Resp: 41412

Ion Ratio Lower Upper

105 100

120 48.7 38.8 58.2



#74

1,2,4-Trimethylbenzene

Concen: 1.099 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.006 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Tgt Ion:105 Resp: 46810

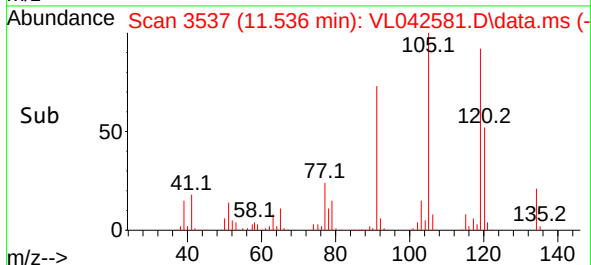
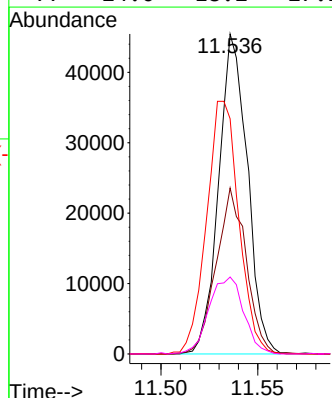
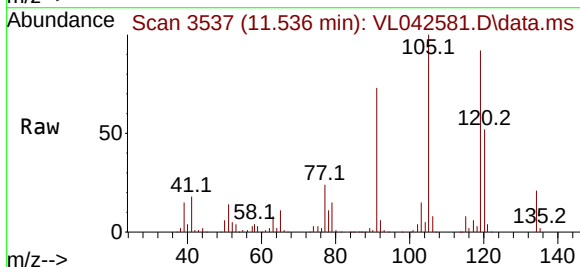
Ion Ratio Lower Upper

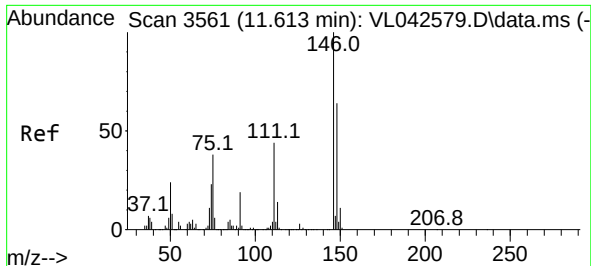
105 100

120 51.5 40.8 61.2

91 73.3 46.8 70.2#

77 24.0 18.2 27.2

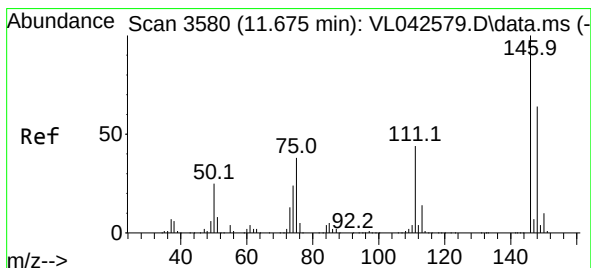
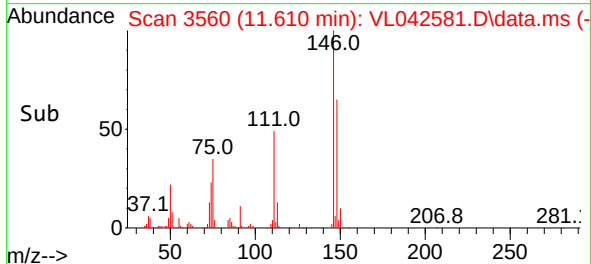
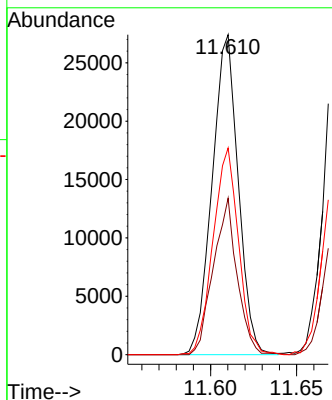
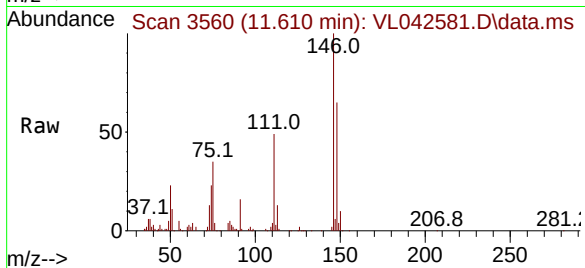




#75
1,3-Dichlorobenzene
Concen: 1.080 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

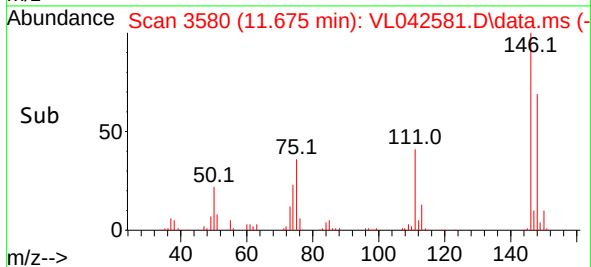
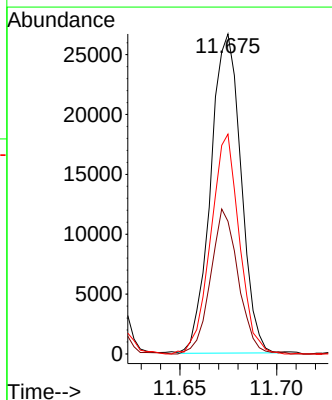
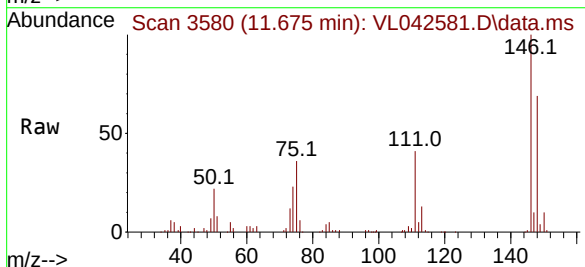
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

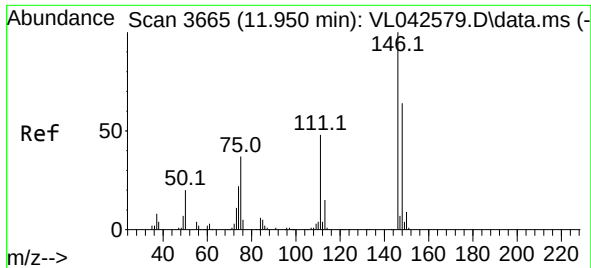
Tgt Ion:146 Resp: 28889
Ion Ratio Lower Upper
146 100
111 44.7 22.4 67.3
148 63.1 32.0 96.2



#76
1,4-Dichlorobenzene
Concen: 1.089 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion:146 Resp: 29060
Ion Ratio Lower Upper
146 100
111 41.4 21.6 64.8
148 64.9 32.1 96.5

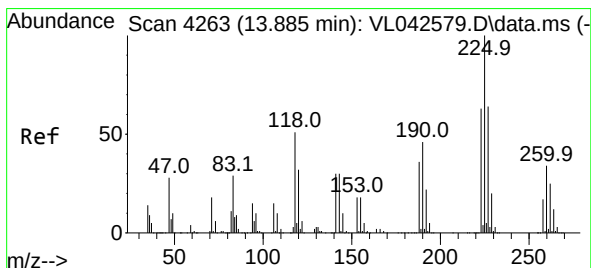
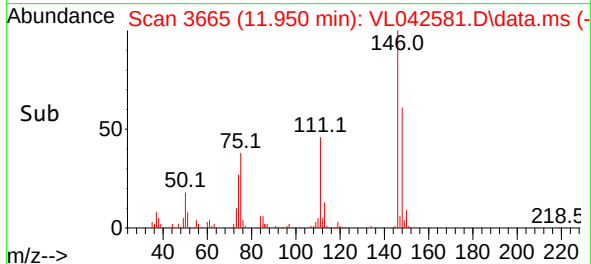
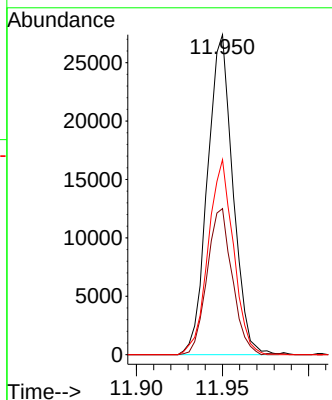
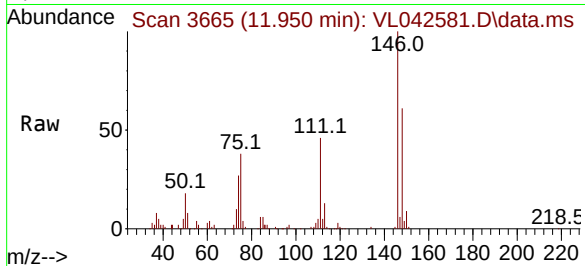




#77
1,2-Dichlorobenzene
Concen: 1.085 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.000 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

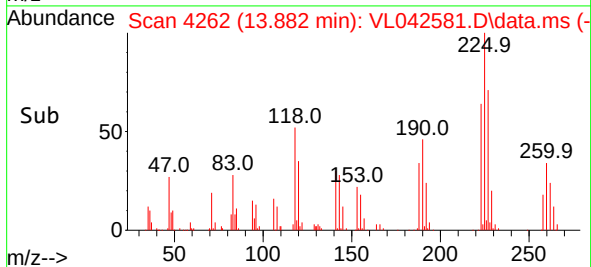
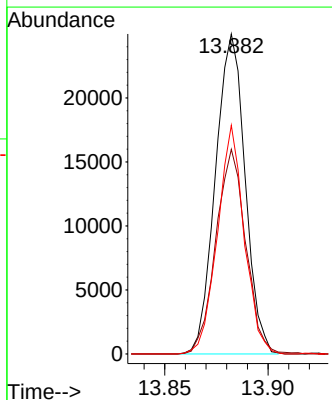
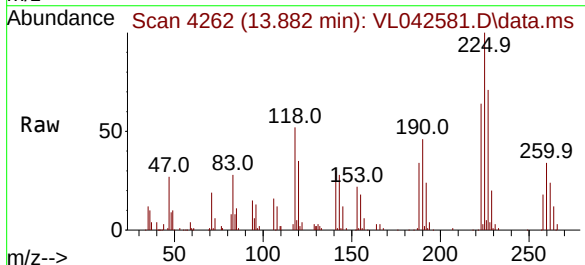
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

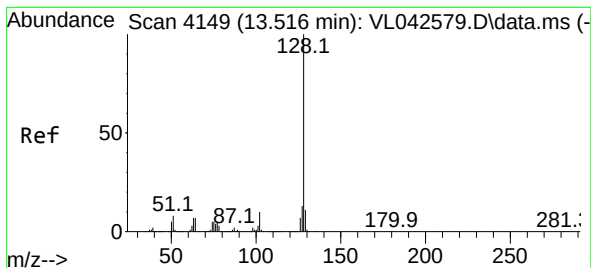
Tgt Ion:146 Resp: 28176
Ion Ratio Lower Upper
146 100
111 45.4 23.1 69.3
148 60.6 32.1 96.3



#78
Hexachloro-1,3-Butadiene
Concen: 1.162 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.003 min
Lab File: VL042581.D
Acq: 29 May 2025 12:15

Tgt Ion:225 Resp: 24950
Ion Ratio Lower Upper
225 100
223 64.6 50.2 75.4
227 64.6 51.1 76.7





#79

Naphthalene

Concen: 1.141 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

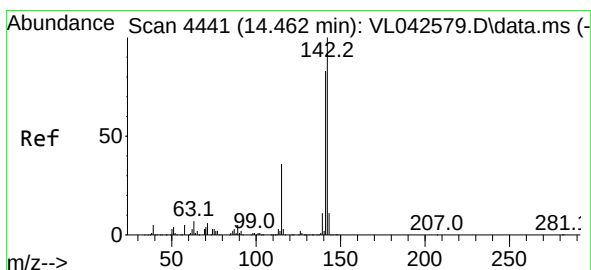
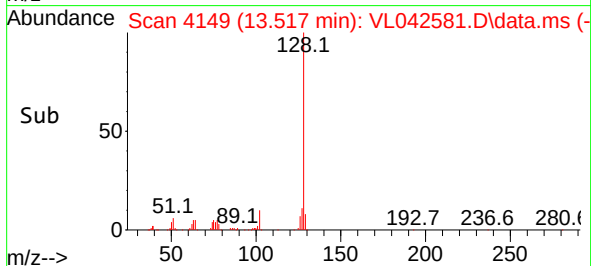
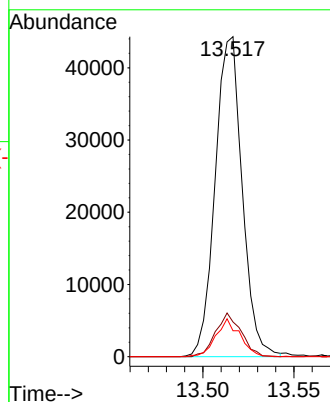
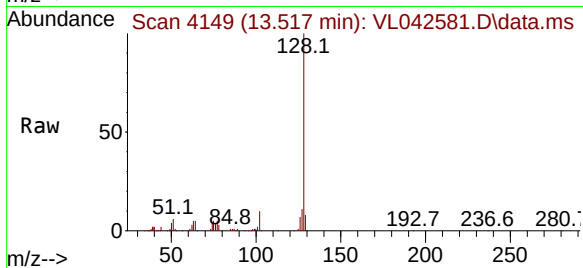
Tgt Ion:128 Resp: 45649

Ion Ratio Lower Upper

128 100

127 10.9 10.2 15.4

129 8.1 8.8 13.2#



#80

Naphthalene,2-methyl-

Concen: 0.866 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.003 min

Lab File: VL042581.D

Acq: 29 May 2025 12:15

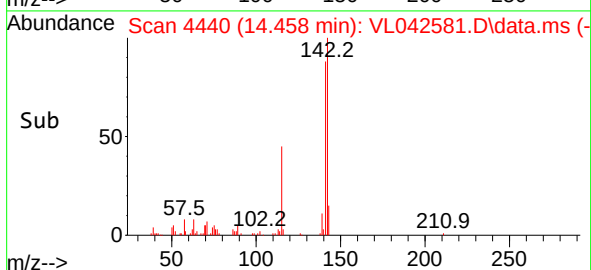
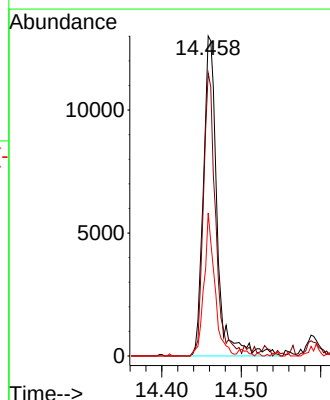
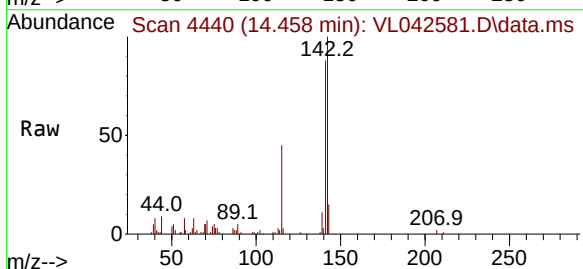
Tgt Ion:142 Resp: 15700

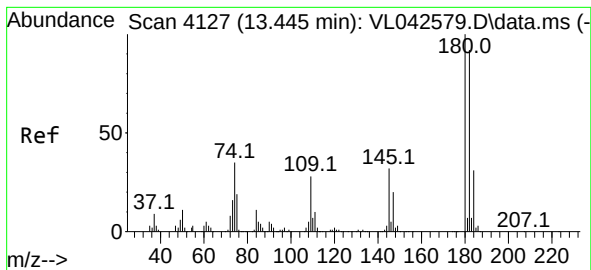
Ion Ratio Lower Upper

142 100

141 78.1 66.2 99.4

115 36.5 28.3 42.5





#81

1,2,4-Trichlorobenzene

Concen: 1.108 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042581.D

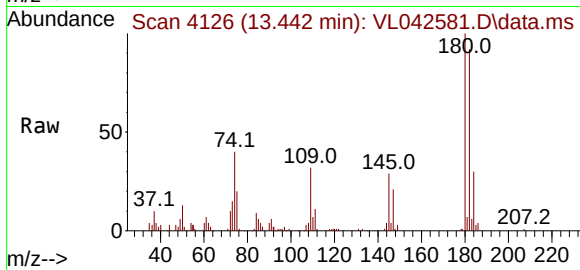
Acq: 29 May 2025 12:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001



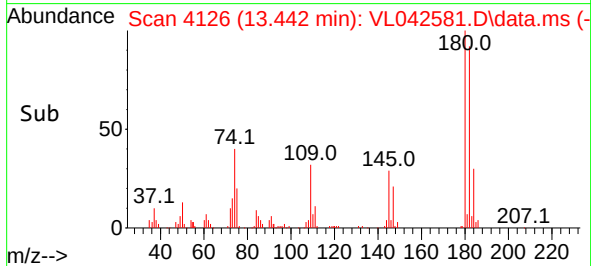
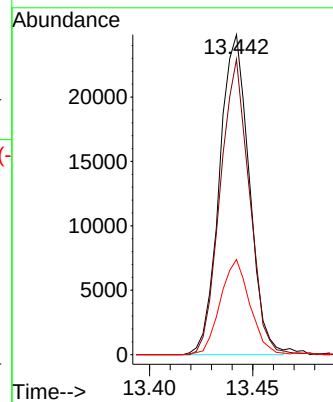
Tgt Ion:180 Resp: 24843

Ion Ratio Lower Upper

180 100

182 90.6 75.0 112.4

184 30.0 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042582.D
 Acq On : 29 May 2025 12:47
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: May 30 01:19:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	102909	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	304613	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	276104	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	208325	10.065	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	6470	0.512	ppbv	98
3) Chlorodifluoromethane	1.476	51	9678	0.556	ppbv	96
4) Chloromethane	1.531	50	2584	0.516	ppbv	97
5) Vinyl Chloride	1.580	62	2721	0.533	ppbv	96
6) Bromomethane	1.667	94	1594	0.642	ppbv #	74
7) Chloroethane	1.706	64	1099	0.554	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	5655	0.537	ppbv	97
9) Propene	1.483	41	3653	0.521	ppbv	87
10) Heptane	4.988	43	10697	0.540	ppbv	98
11) Trichlorofluoromethane	1.878	101	6138	0.522	ppbv	91
12) 1,1,2-Trichlorotrifluo...	2.140	101	4647	0.503	ppbv	89
13) Ethanol	1.722	45	695	0.888	ppbv	96
14) Bromoethene	1.781	108	1849	0.532	ppbv #	84
15) Acetone	1.836	43	7225	0.583	ppbv	95
16) 1,3-Butadiene	1.609	39	3340	0.569	ppbv	89
17) tert-Butyl alcohol	2.046	59	6877	0.533	ppbv #	92
18) 1,1-Dichloroethene	2.036	96	2319	0.539	ppbv #	73
19) Isopropyl Alcohol	1.887	45	4245	0.573	ppbv #	44
20) Methylene Chloride	2.062	84	2435	0.595	ppbv	93
21) Allyl Chloride	2.098	41	4754	0.544	ppbv	96
22) trans-1,2-Dichloroethene	2.341	96	2553	0.532	ppbv	93
23) Vinyl Acetate	2.464	43	9005	0.537	ppbv #	86
24) 1,1-Dichloroethane	2.409	63	5127	0.521	ppbv #	89
25) Ethyl Acetate	2.842	43	17990	0.530	ppbv	98
26) Hexane	2.826	57	8694	0.564	ppbv	96
27) Carbon Disulfide	2.153	76	6043	0.511	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	3416	0.546	ppbv #	81
29) Chloroform	2.849	83	10798	0.539	ppbv	98
30) Cyclohexane	3.862	84	3216	0.252	ppbv #	1
31) cis-1,2-Dichloroethene	2.722	61	7302	0.518	ppbv	97
32) 1,1,1-Trichloroethane	3.367	97	10309	0.513	ppbv	98
34) 2-Butanone	2.564	43	11569	0.533	ppbv	99
35) Carbon Tetrachloride	3.761	117	10126	0.503	ppbv	92
36) Benzene	3.661	78	16000	0.533	ppbv	95
37) 1,2-Dichloroethane	3.224	62	7883	0.529	ppbv	98
38) Trichloroethene	4.554	130	7126	0.555	ppbv	92
39) 1,2-Dichloropropane	4.318	63	4173	0.376	ppbv	97
40) 1,4-Dioxane	4.609	88	1661	0.352	ppbv #	1
41) Tetrahydrofuran	3.066	42	6775	0.533	ppbv	96
42) Bromodichloromethane	4.490	83	10688	0.505	ppbv	94
43) Methyl Methacrylate	4.888	69	6056	0.521	ppbv	96
44) 2,2,4-Trimethylpentane	4.645	57	27584	0.538	ppbv	96
45) t-1,3-Dichloropropene	6.422	75	6598	0.495	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042582.D
 Acq On : 29 May 2025 12:47
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: May 30 01:19:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

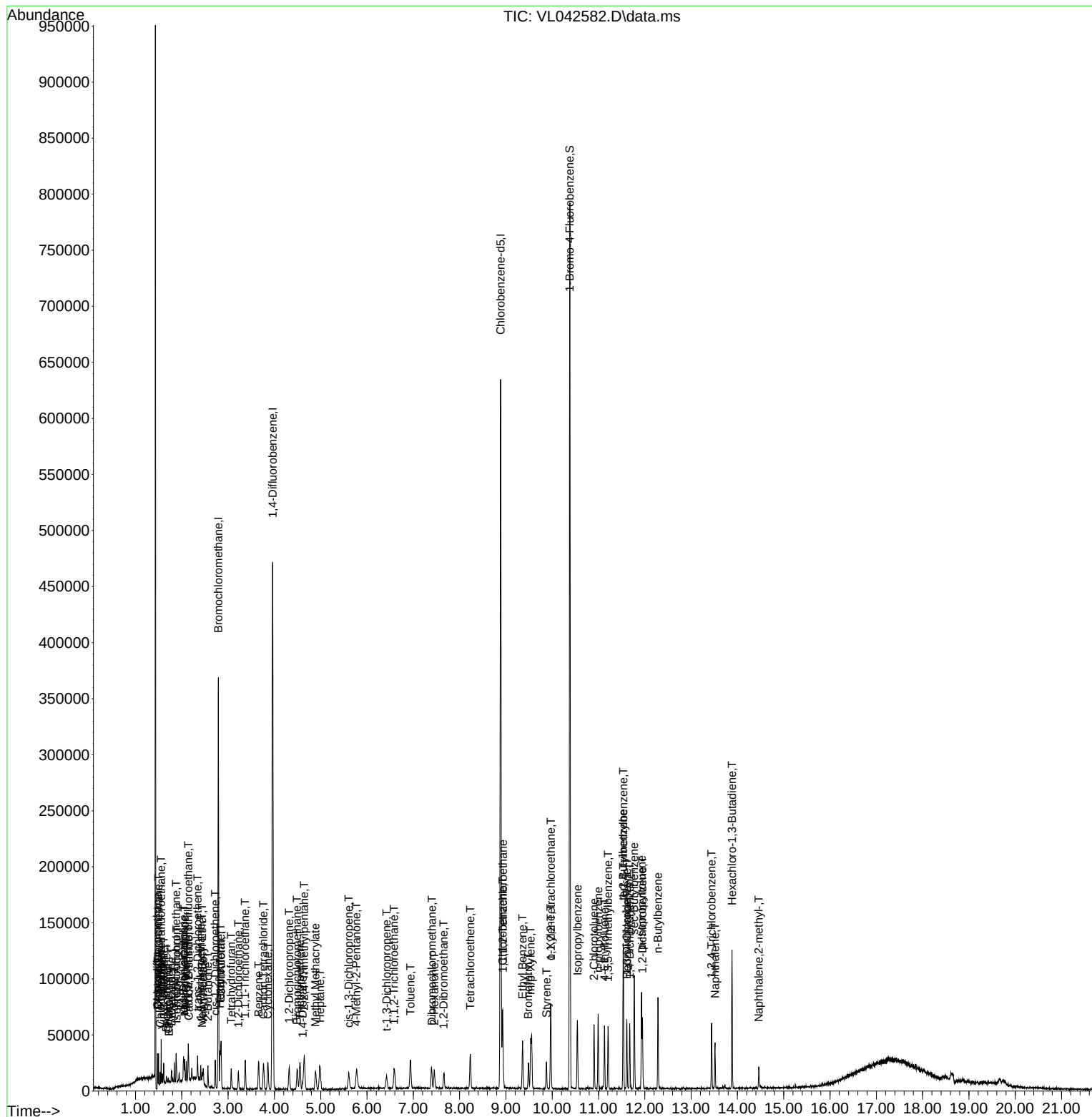
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	6845	0.410	ppbv	98
47) 1,1,2-Trichloroethane	6.584	97	3090	0.269	ppbv #	87
48) Dibromochloromethane	7.399	129	5119	0.278	ppbv #	10
49) Bromoform	9.484	173	7974	0.503	ppbv	98
50) 4-Methyl-2-Pentanone	5.771	43	8451	0.279	ppbv #	31
51) 2-Hexanone	7.451	43	11458	0.479	ppbv #	98
52) Tetrachloroethene	8.231	164	5950	0.531	ppbv	87
53) Toluene	6.940	91	18429	0.532	ppbv	100
54) 1,2-Dibromoethane	7.655	107	8810	0.518	ppbv	82
56) 1,1,1,2-Tetrachloroethane	8.934	131	7178	0.517	ppbv	89
57) Chlorobenzene	8.930	112	14920	0.557	ppbv	89
58) Ethyl Benzene	9.358	91	24442	0.522	ppbv	88
59) m/p-Xylene	9.536	91	14666	0.398	ppbv #	29
60) o-Xylene	9.966	91	19745	0.537	ppbv	99
61) Styrene	9.875	104	8639	0.497	ppbv	99
62) Isopropylbenzene	10.545	105	28442	0.524	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	12137	0.519	ppbv	97
64) n-propylbenzene	10.995	120	7993	0.549	ppbv	97
65) tert-Butylbenzene	11.533	119	26856	0.545	ppbv	99
66) Benzyl Chloride	11.614	91	1398	0.220	ppbv #	64
67) sec-Butylbenzene	11.769	105	37899	0.547	ppbv	98
69) p-Isopropyltoluene	11.931	119	30931	0.533	ppbv	99
70) n-Butylbenzene	12.284	91	29130	0.509	ppbv	98
71) 2-Chlorotoluene	10.905	91	22135	0.534	ppbv	100
72) 4-Ethyltoluene	11.128	105	23521	0.513	ppbv	97
73) 1,3,5-Trimethylbenzene	11.206	105	19891	0.524	ppbv	86
74) 1,2,4-Trimethylbenzene	11.536	105	22635	0.538	ppbv #	83
75) 1,3-Dichlorobenzene	11.610	146	14232	0.538	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	13773	0.522	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	14062	0.548	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	12036	0.567	ppbv	97
79) Naphthalene	13.517	128	18853	0.477	ppbv	96
80) Naphthalene,2-methyl-	14.462	142	6126	0.342	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	9879	0.446	ppbv	99

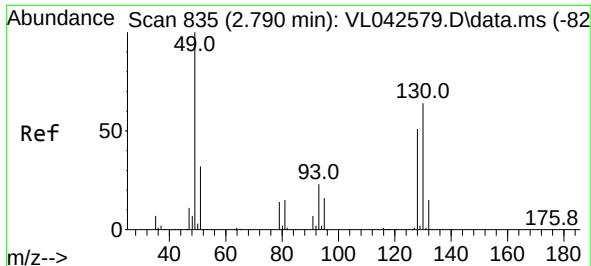
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042582.D
 Acq On : 29 May 2025 12:47
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: May 30 01:19:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

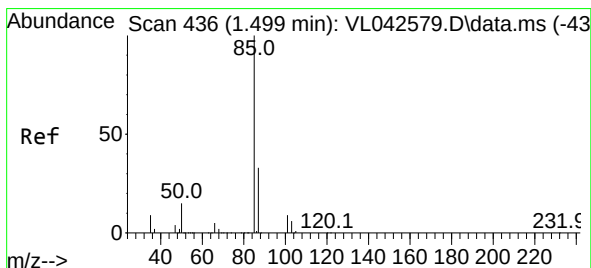
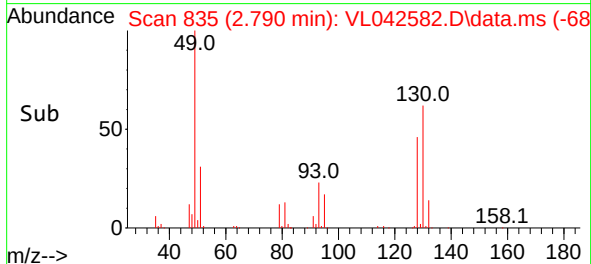
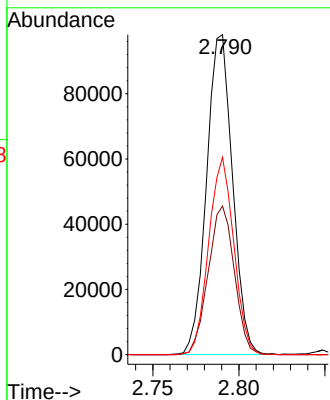
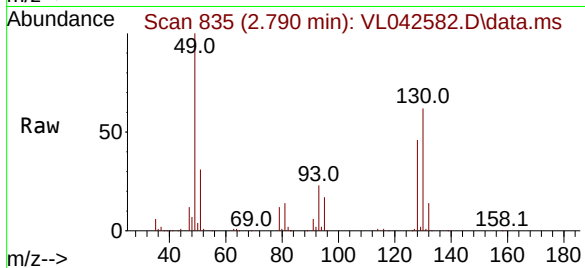




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

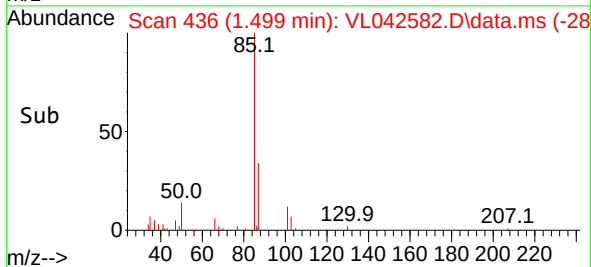
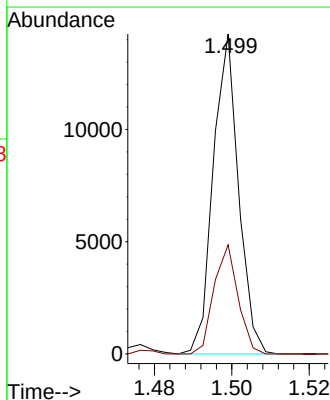
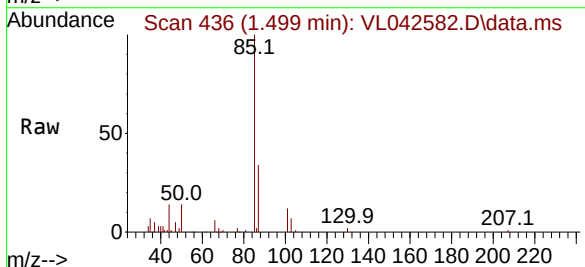
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

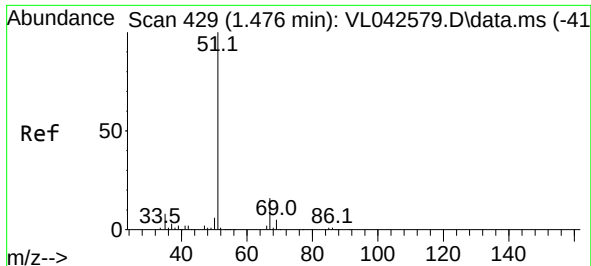
Tgt Ion: 49 Resp: 102909
Ion Ratio Lower Upper
49 100
128 46.9 24.2 72.6
130 59.7 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 0.512 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 85 Resp: 6470
Ion Ratio Lower Upper
85 100
87 34.1 26.6 39.8

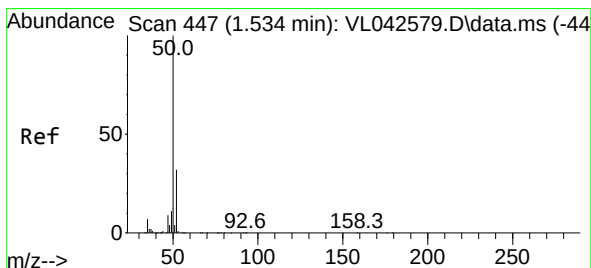
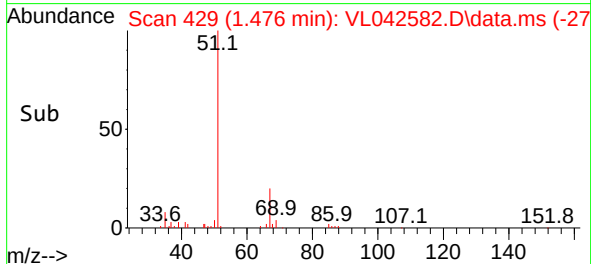
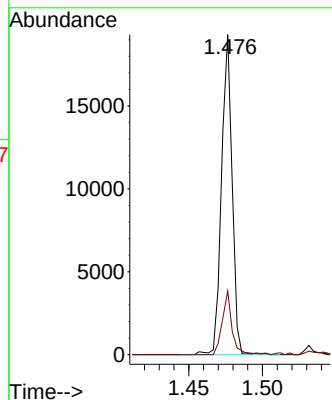
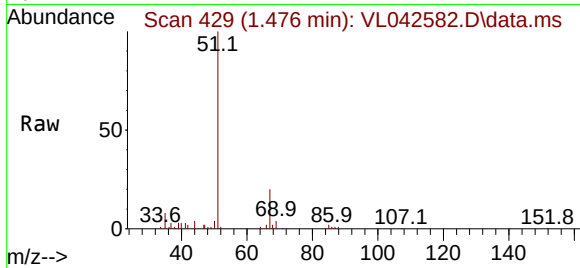




#3
Chlorodifluoromethane
Concen: 0.556 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

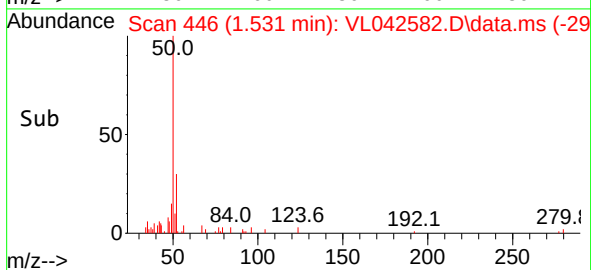
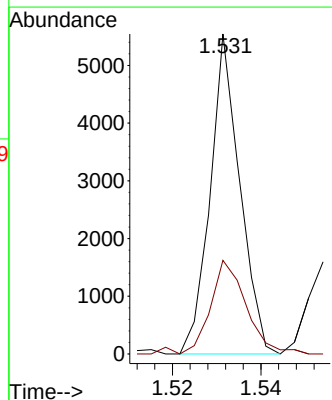
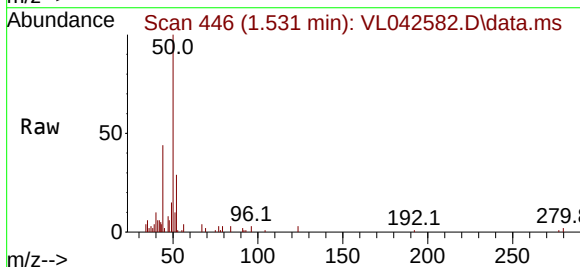
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

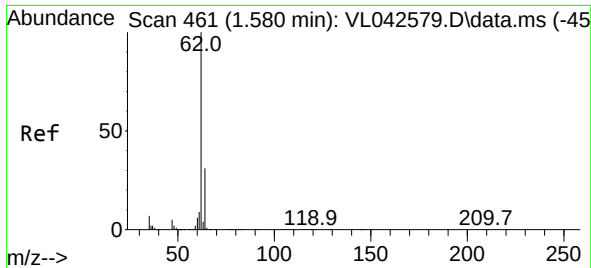
Tgt Ion: 51 Resp: 9678
Ion Ratio Lower Upper
51 100
67 18.4 13.4 20.2



#4
Chloromethane
Concen: 0.516 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 50 Resp: 2584
Ion Ratio Lower Upper
50 100
52 30.5 25.8 38.6

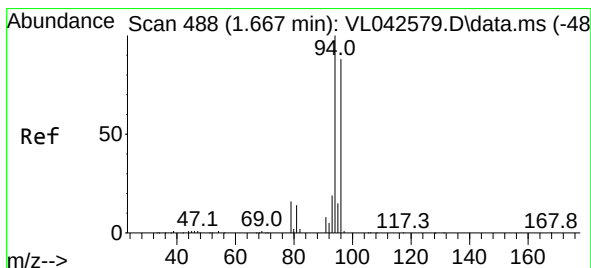
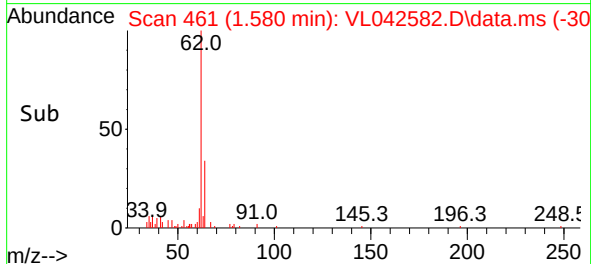
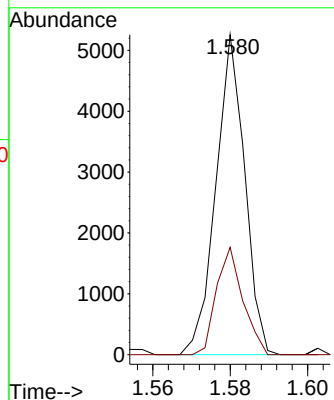
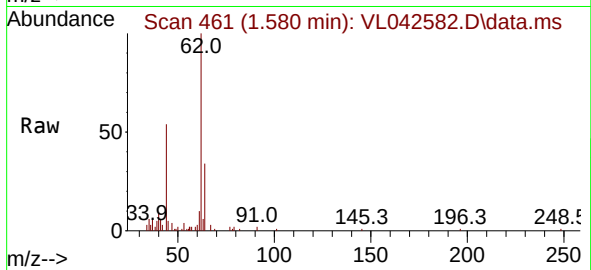




#5
 Vinyl Chloride
 Concen: 0.533 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

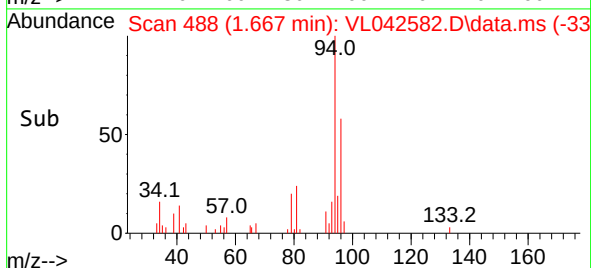
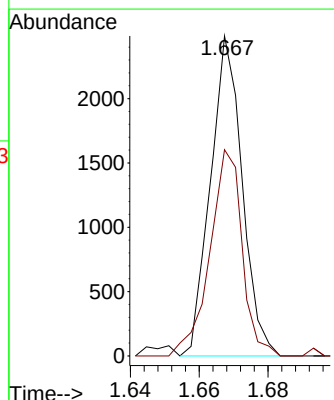
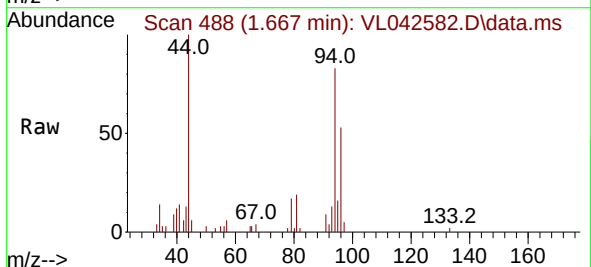
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

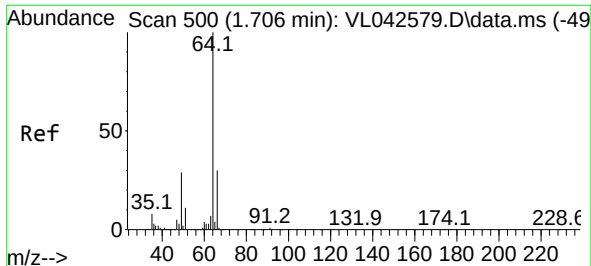
Tgt Ion: 62 Resp: 2721
 Ion Ratio Lower Upper
 62 100
 64 33.5 24.9 37.3



#6
 Bromomethane
 Concen: 0.642 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

Tgt Ion: 94 Resp: 1594
 Ion Ratio Lower Upper
 94 100
 96 64.5 70.7 106.1#

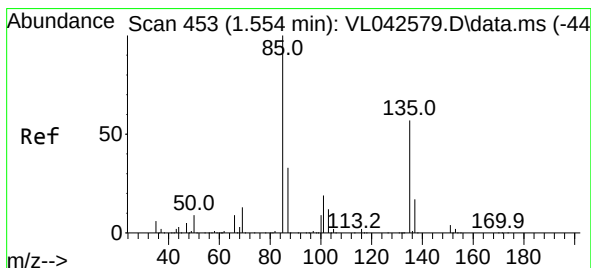
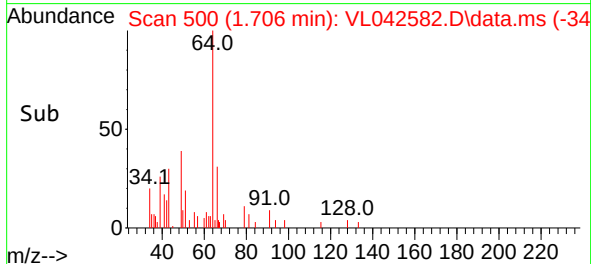
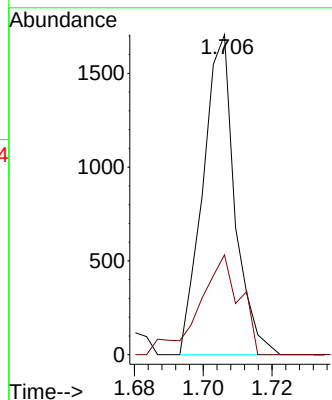
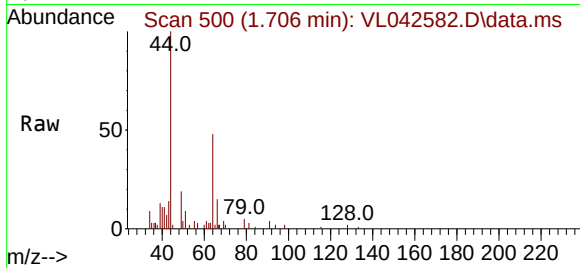




#7
Chloroethane
Concen: 0.554 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

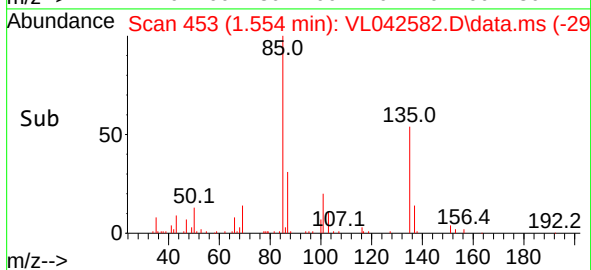
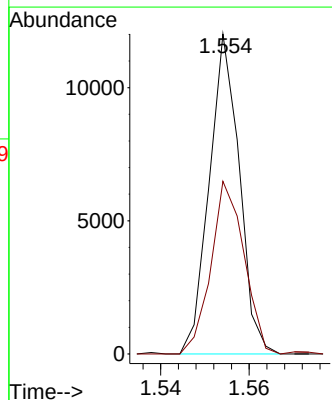
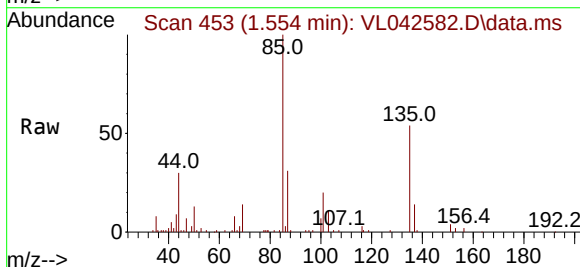
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

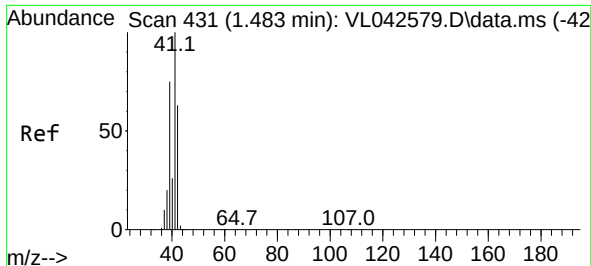
Tgt Ion: 64 Resp: 1099
Ion Ratio Lower Upper
64 100
66 35.6 24.3 36.5



#8
Dichlorotetrafluoroethane
Concen: 0.537 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 85 Resp: 5655
Ion Ratio Lower Upper
85 100
135 60.7 50.2 75.4





#9

Propene

Concen: 0.521 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_1

ClientSampleId :

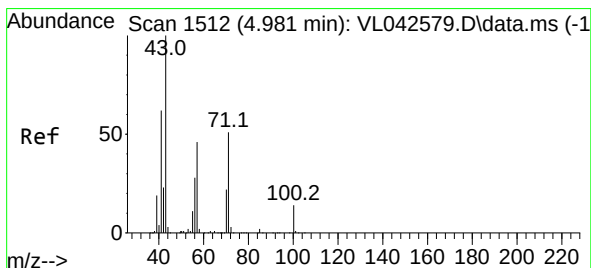
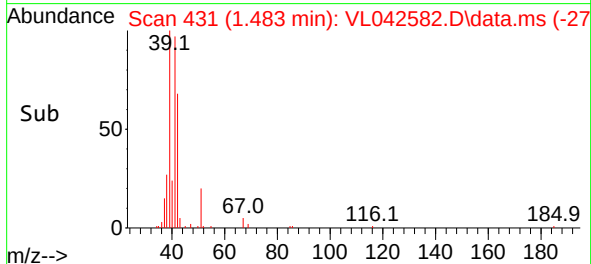
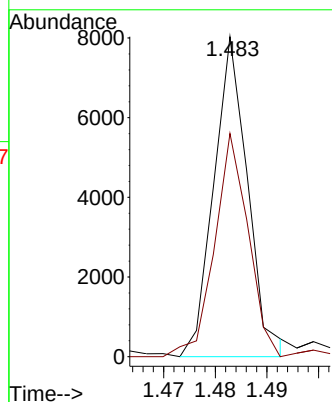
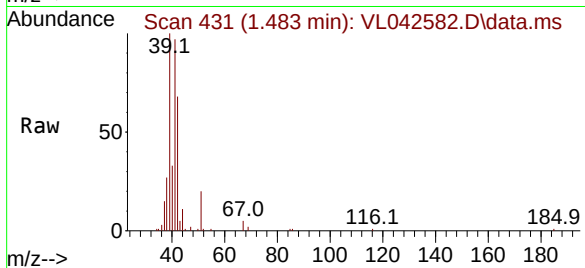
VSTDIC0.5

Tgt Ion: 41 Resp: 3653

Ion Ratio Lower Upper

41 100

42 77.1 53.3 79.9



#10

Heptane

Concen: 0.540 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.007 min

Lab File: VL042582.D

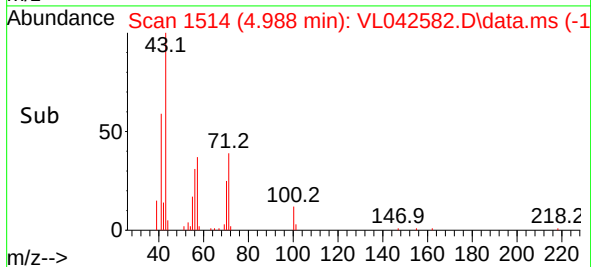
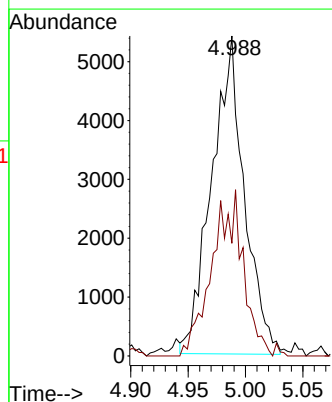
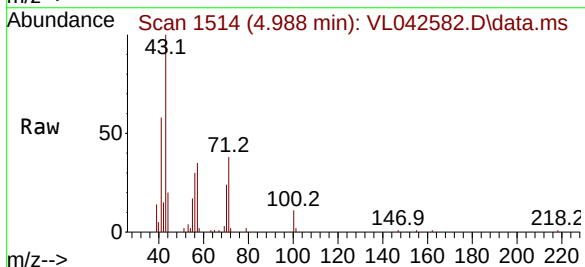
Acq: 29 May 2025 12:47

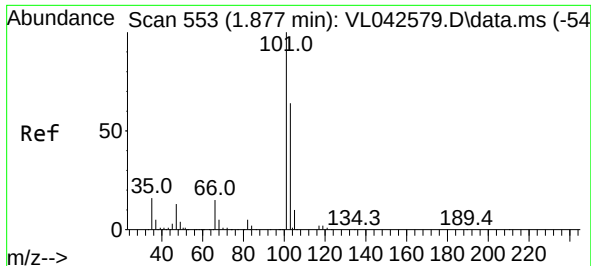
Tgt Ion: 43 Resp: 10697

Ion Ratio Lower Upper

43 100

57 49.9 38.9 58.3

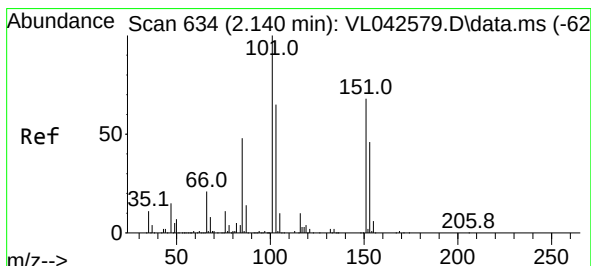
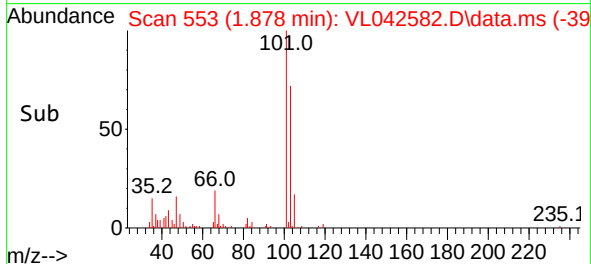
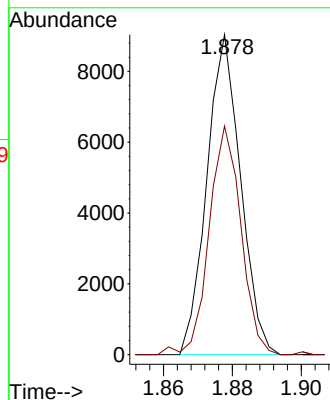
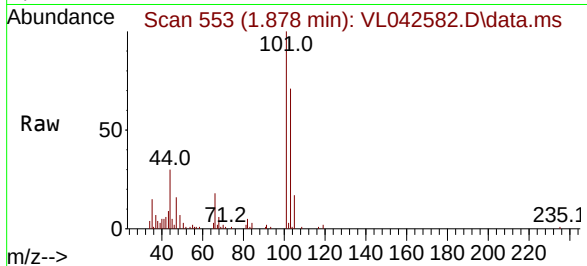




#11
 Trichlorofluoromethane
 Concen: 0.522 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

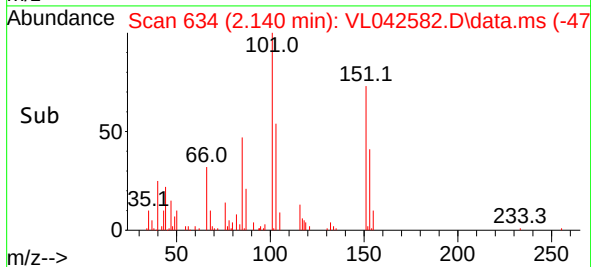
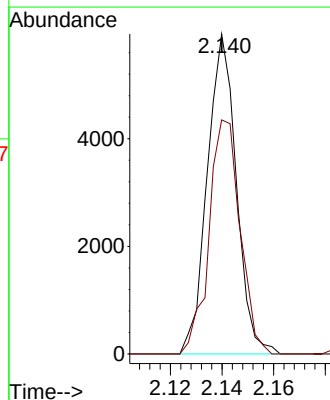
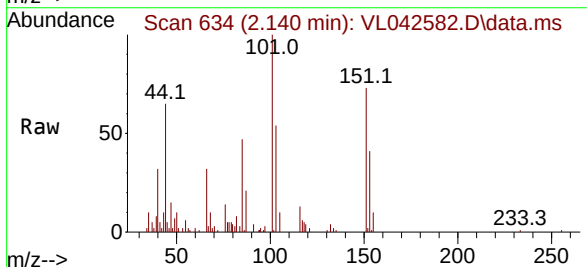
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

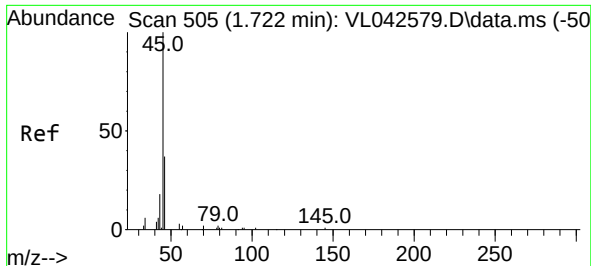
Tgt Ion:101 Resp: 6138
 Ion Ratio Lower Upper
 101 100
 103 71.5 51.5 77.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.503 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.000 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

Tgt Ion:101 Resp: 4647
 Ion Ratio Lower Upper
 101 100
 151 78.2 55.3 82.9

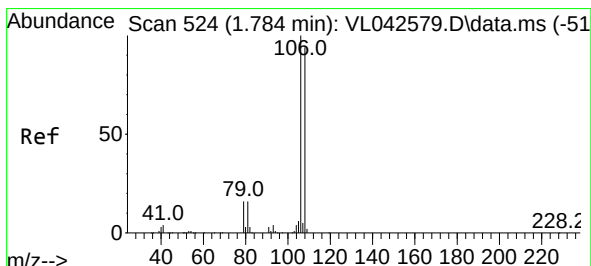
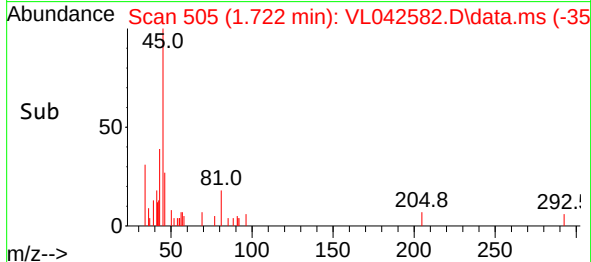
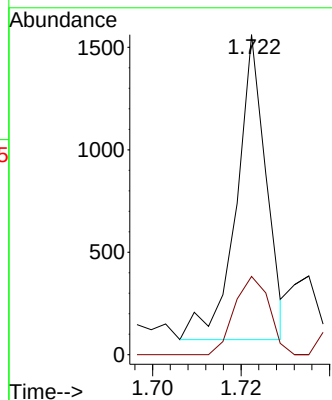
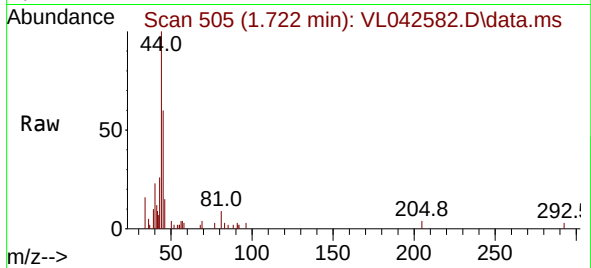




#13
Ethanol
Concen: 0.888 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

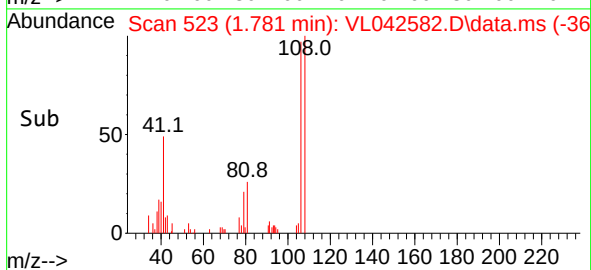
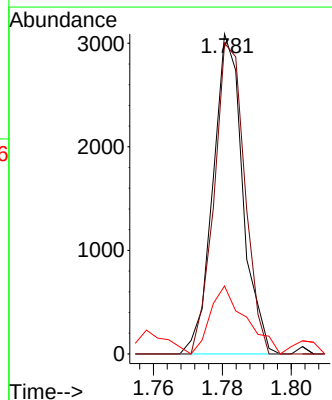
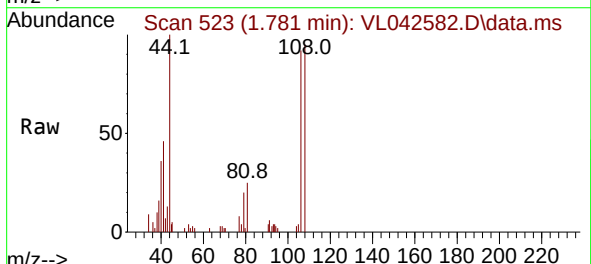
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

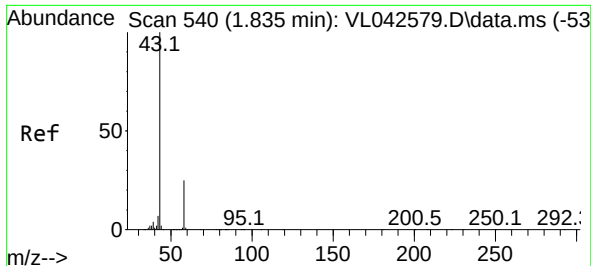
Tgt Ion: 45 Resp: 695
Ion Ratio Lower Upper
45 100
46 38.4 14.5 58.1



#14
Bromoethene
Concen: 0.532 ppbv
RT: 1.781 min Scan# 523
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion:108 Resp: 1849
Ion Ratio Lower Upper
108 100
106 99.9 87.9 131.9
79 44.5 15.6 23.4#

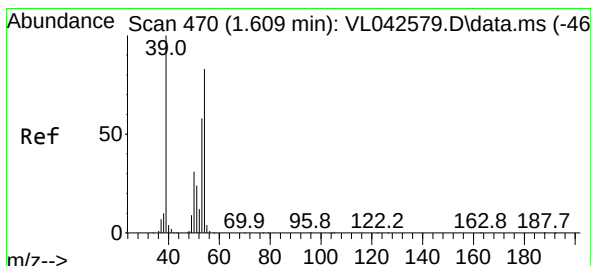
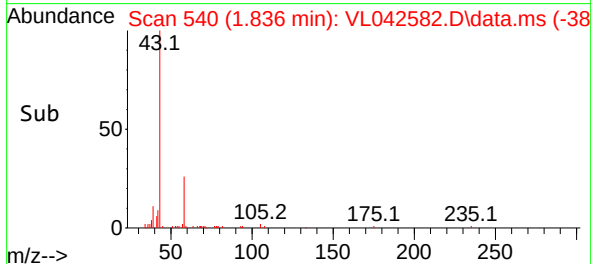
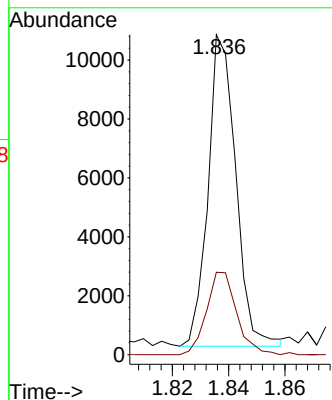
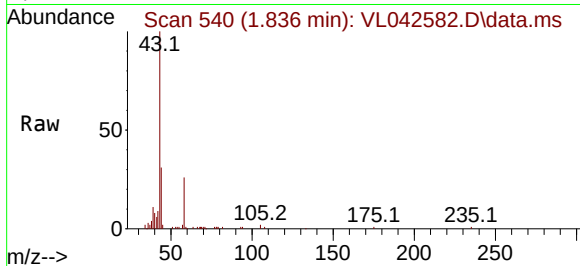




#15
Acetone
Concen: 0.583 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

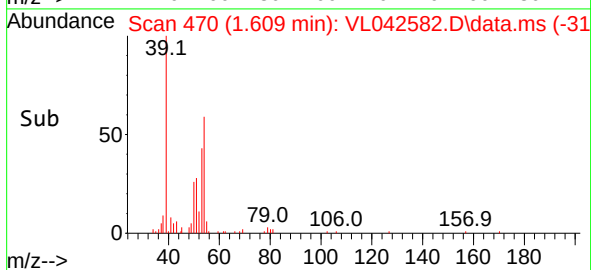
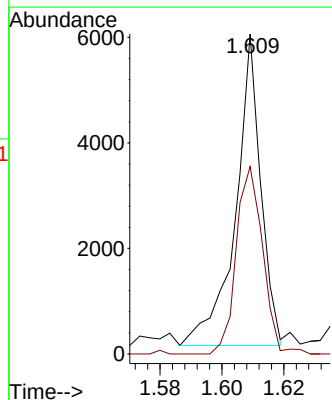
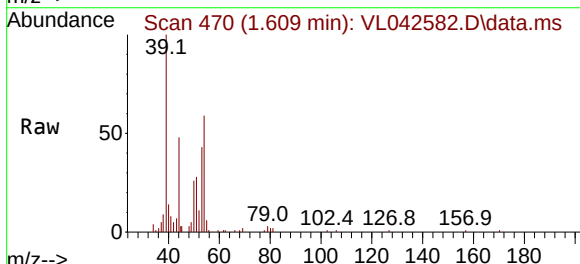
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

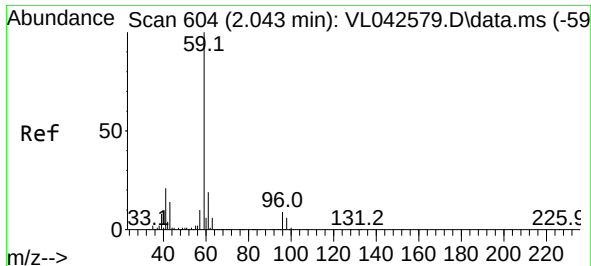
Tgt Ion: 43 Resp: 7225
Ion Ratio Lower Upper
43 100
58 29.0 21.0 31.4



#16
1,3-Butadiene
Concen: 0.569 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 39 Resp: 3340
Ion Ratio Lower Upper
39 100
54 63.2 57.9 86.9





#17

tert-Butyl alcohol

Concen: 0.533 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_1

ClientSampleId :

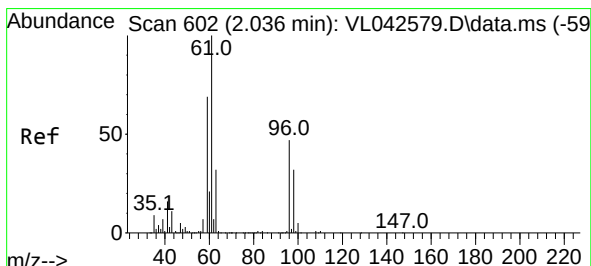
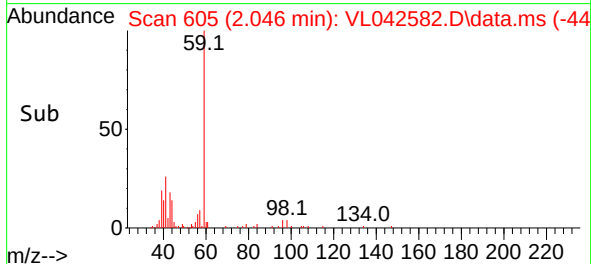
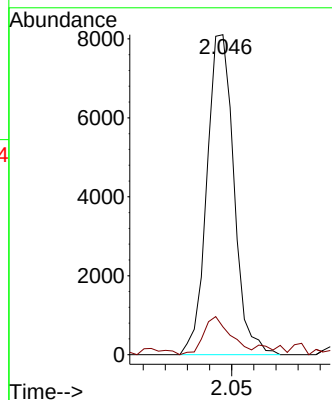
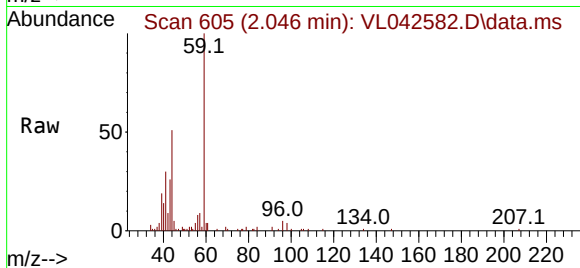
VSTDIC0.5

Tgt Ion: 59 Resp: 6877

Ion Ratio Lower Upper

59 100

57 13.6 8.6 12.8#



#18

1,1-Dichloroethene

Concen: 0.539 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

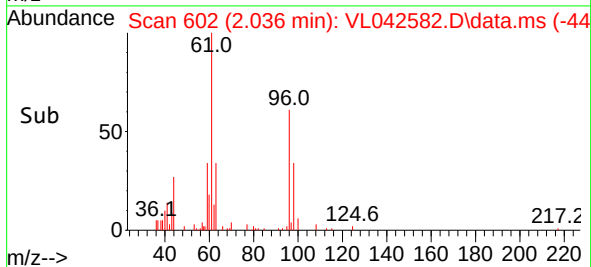
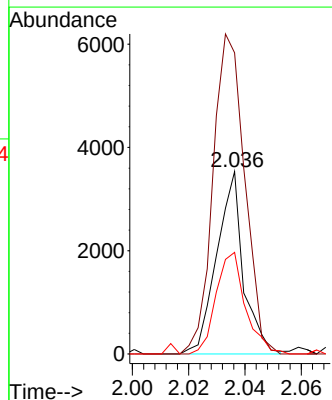
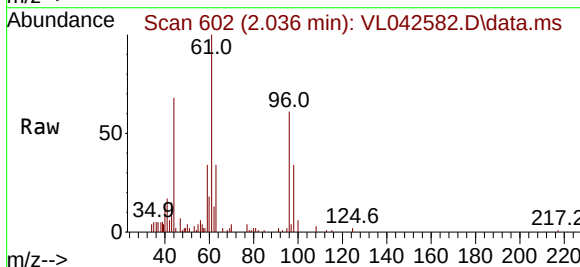
Tgt Ion: 96 Resp: 2319

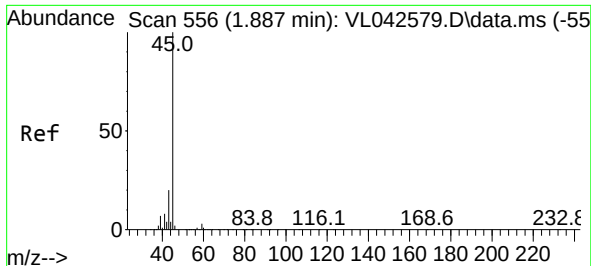
Ion Ratio Lower Upper

96 100

61 165.1 171.1 256.7#

98 55.7 54.4 81.6

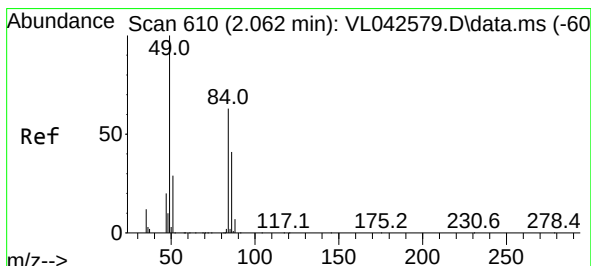
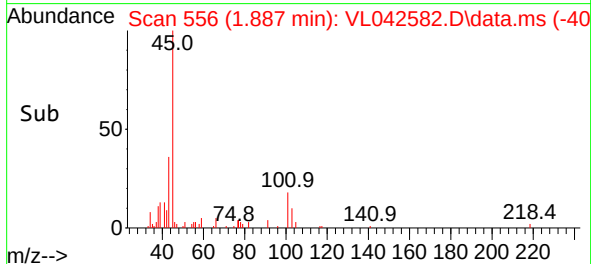
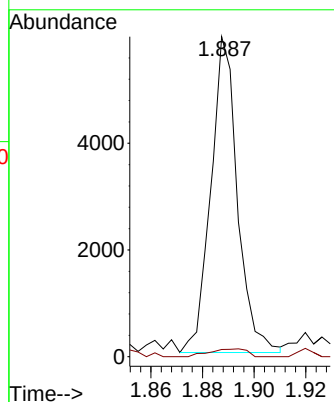
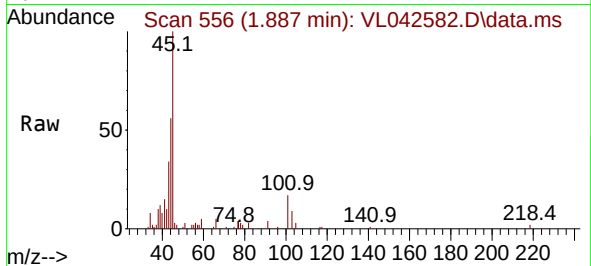




#19
Isopropyl Alcohol
Concen: 0.573 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

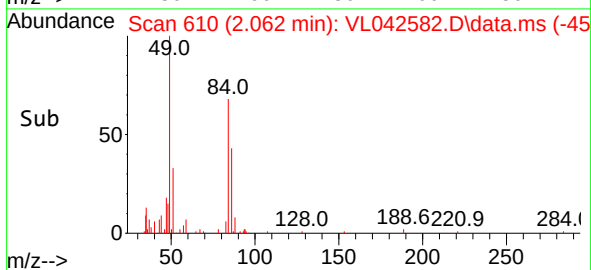
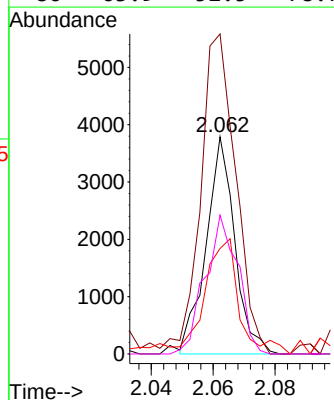
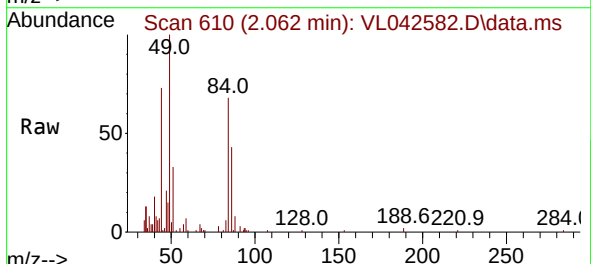
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

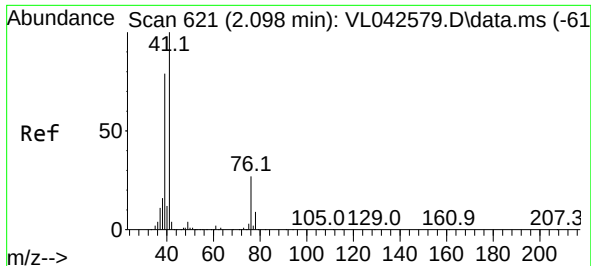
Tgt Ion: 45 Resp: 4245
Ion Ratio Lower Upper
45 100
58 3.4 29.4 44.2#



#20
Methylene Chloride
Concen: 0.595 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 84 Resp: 2435
Ion Ratio Lower Upper
84 100
49 147.4 128.8 193.2
51 45.2 38.6 57.8
86 63.9 52.5 78.7

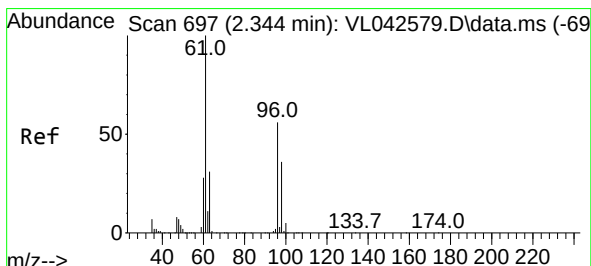
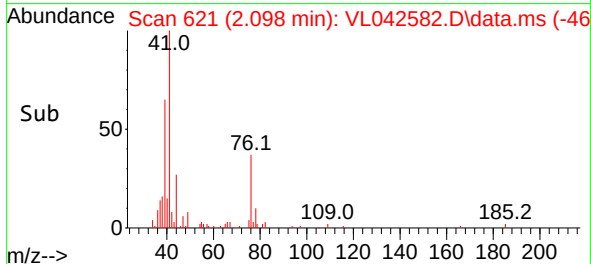
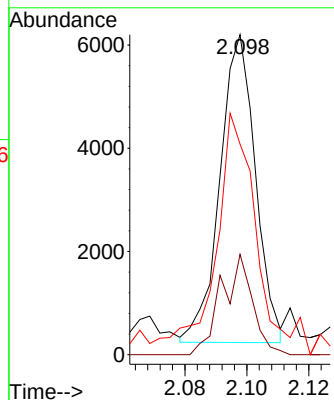
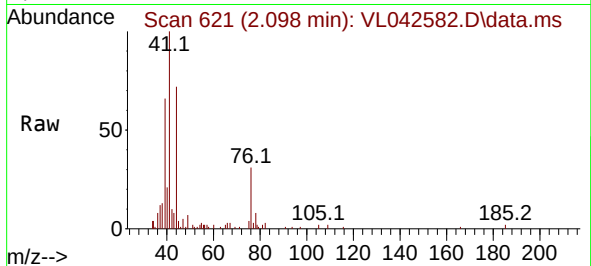




#21
 Allyl Chloride
 Concen: 0.544 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

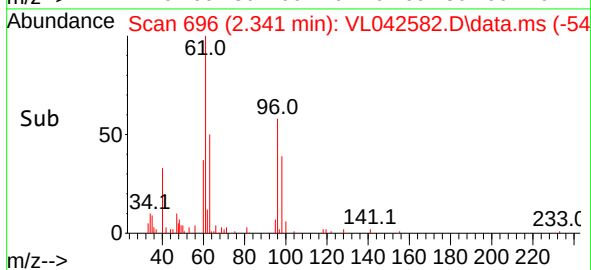
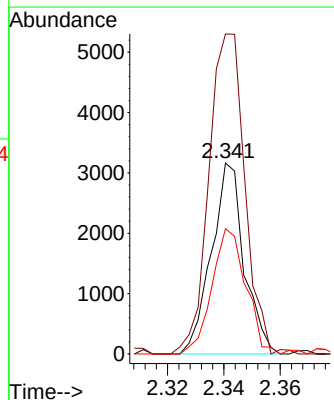
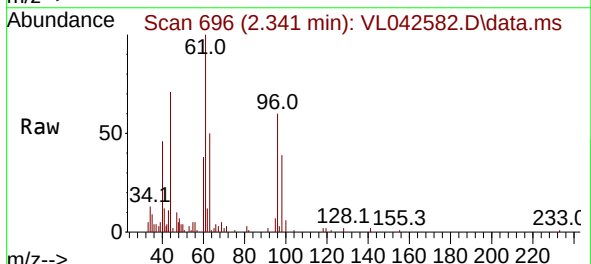
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

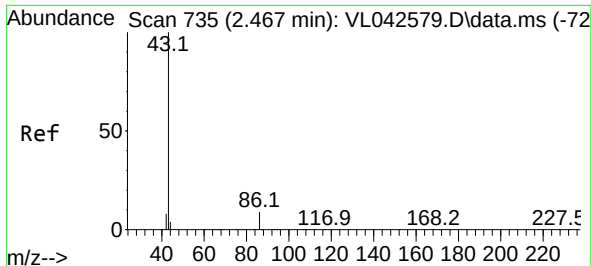
Tgt Ion: 41 Resp: 4754
 Ion Ratio Lower Upper
 41 100
 76 28.5 21.2 31.8
 39 79.5 60.9 91.3



#22
 trans-1,2-Dichloroethene
 Concen: 0.532 ppbv
 RT: 2.341 min Scan# 696
 Delta R.T. -0.003 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

Tgt Ion: 96 Resp: 2553
 Ion Ratio Lower Upper
 96 100
 61 165.3 142.6 214.0
 98 65.6 51.0 76.4

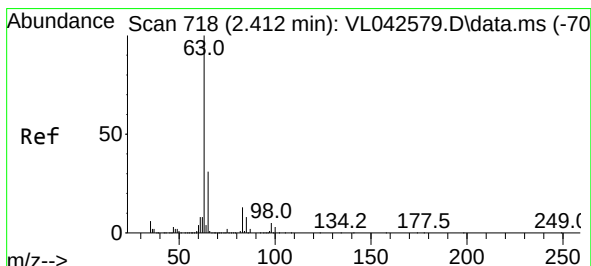
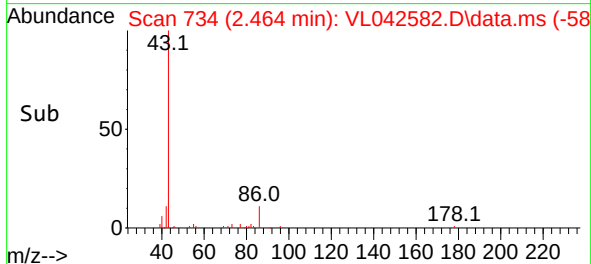
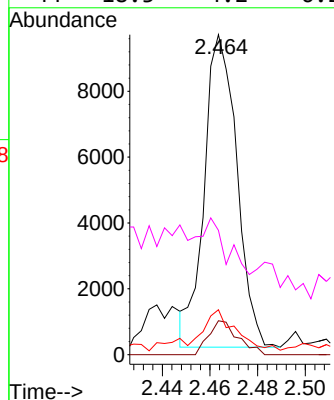
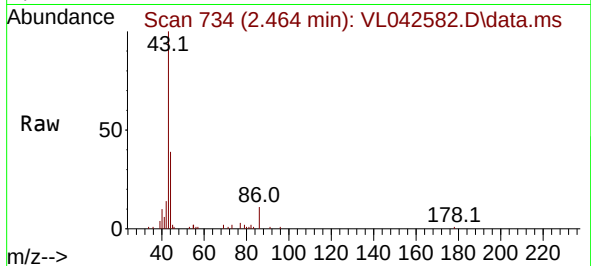




#23
 Vinyl Acetate
 Concen: 0.537 ppbv
 RT: 2.464 min Scan# 717
 Delta R.T. -0.003 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

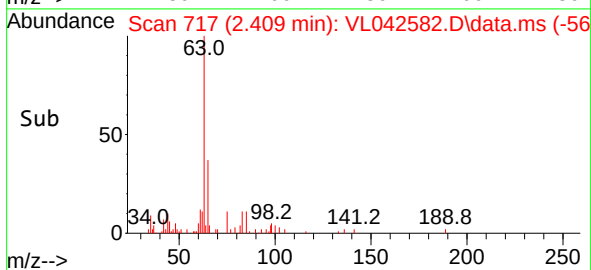
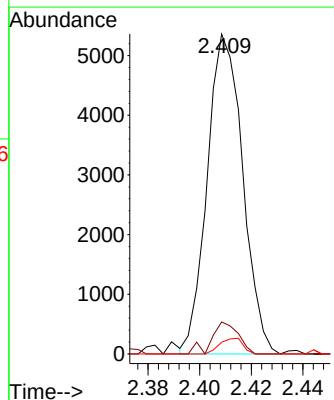
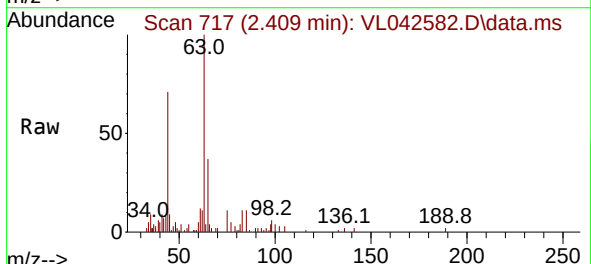
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

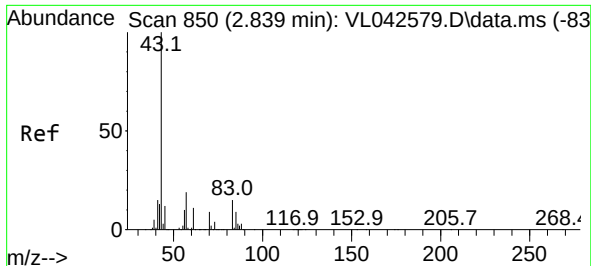
Tgt Ion:	43	Resp:	9005
Ion	Ratio	Lower	Upper
43	100		
86	10.9	6.6	9.8#
42	10.6	7.0	10.4#
44	18.3	4.2	6.2#



#24
 1,1-Dichloroethane
 Concen: 0.521 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. -0.003 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

Tgt Ion:	63	Resp:	5127
Ion	Ratio	Lower	Upper
63	100		
98	10.0	2.4	7.1#
100	3.7	1.4	4.0

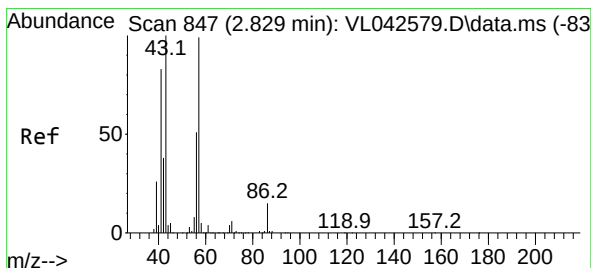
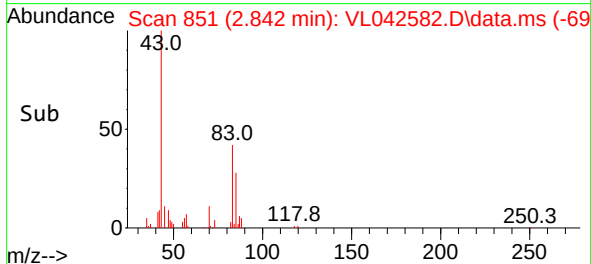
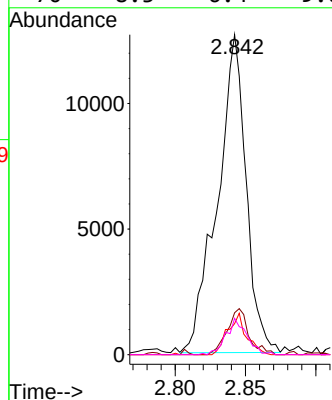
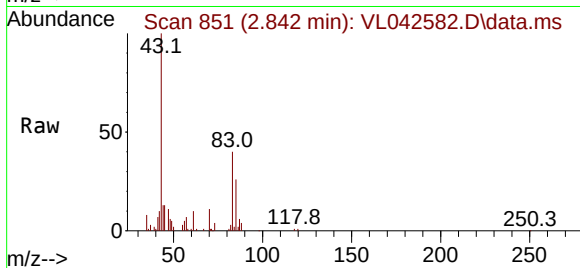




#25
Ethyl Acetate
Concen: 0.530 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

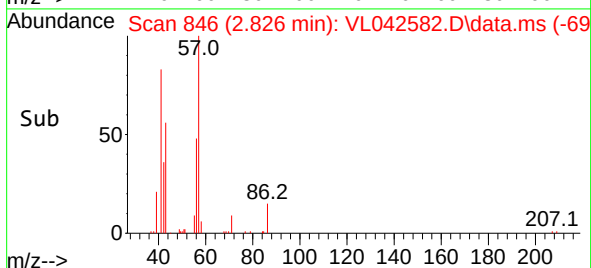
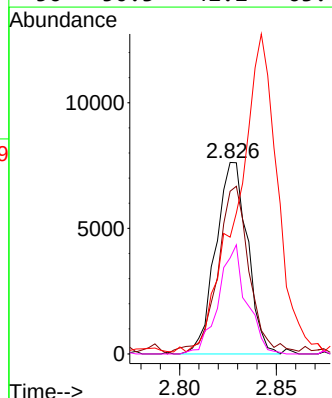
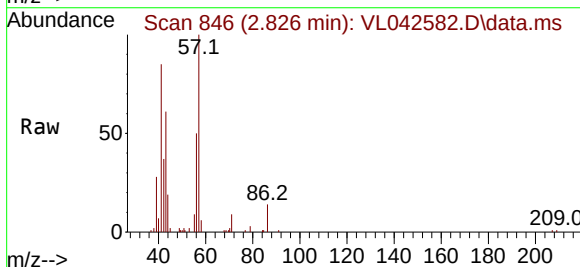
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

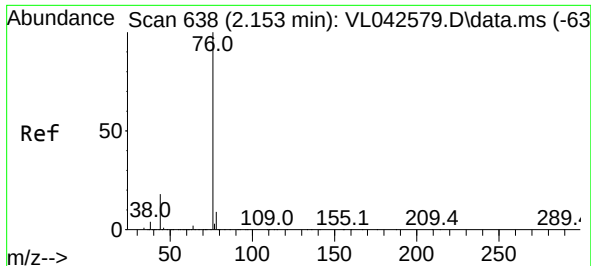
Tgt Ion: 43	Resp: 17990
Ion Ratio	Lower Upper
43 100	
45 11.4	8.2 12.2
61 8.5	7.1 10.7
70 8.3	6.4 9.6



#26
Hexane
Concen: 0.564 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 57	Resp: 8694
Ion Ratio	Lower Upper
57 100	
41 89.3	70.6 106.0
43 218.8	181.1 271.7
56 50.3	42.2 63.4

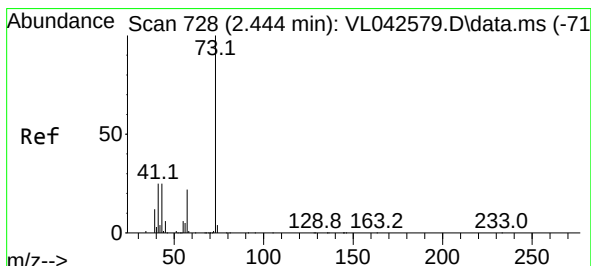
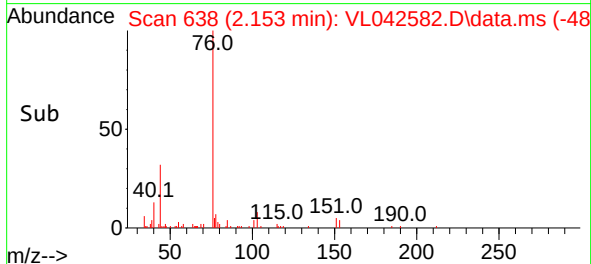
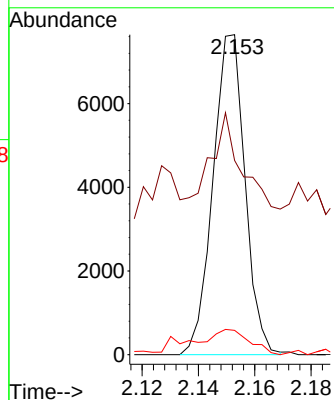
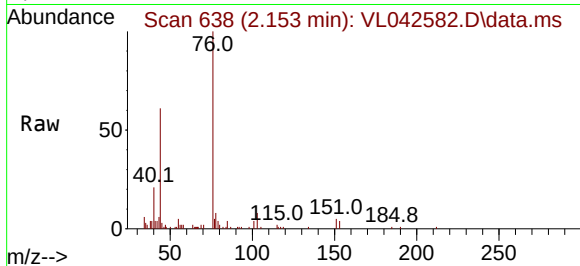




#27
Carbon Disulfide
Concen: 0.511 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

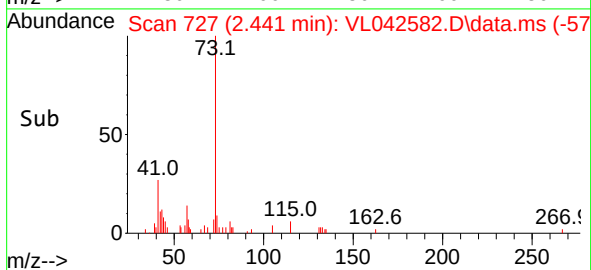
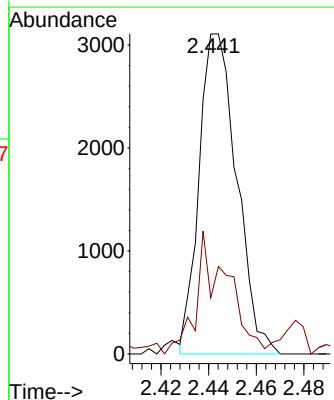
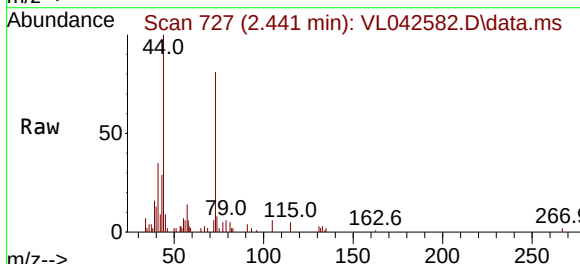
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

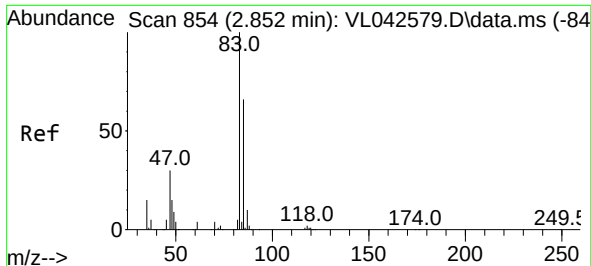
Tgt Ion: 76 Resp: 6043
Ion Ratio Lower Upper
76 100
44 169.1 21.3 31.9#
78 15.4 9.4 14.0#



#28
Methyl tert-Butyl Ether
Concen: 0.546 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 73 Resp: 3416
Ion Ratio Lower Upper
73 100
57 34.3 19.9 29.9#





#29

Chloroform

Concen: 0.539 ppbv

RT: 2.849 min Scan# 853

Delta R.T. -0.003 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

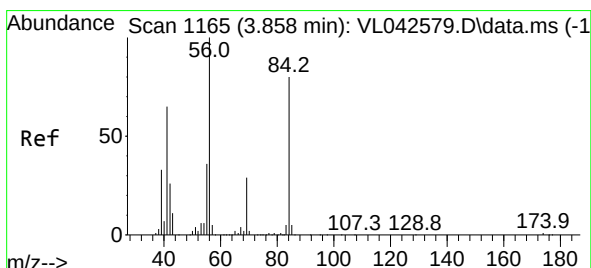
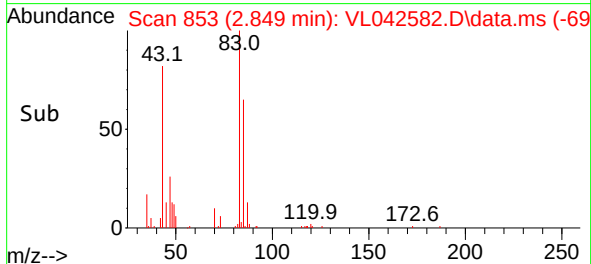
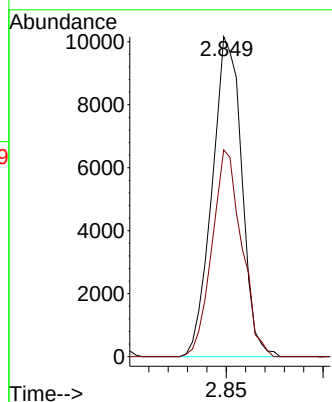
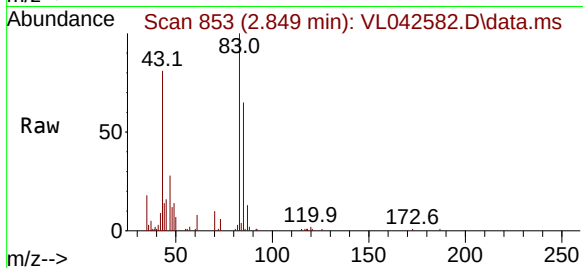
VSTDIC0.5

Tgt Ion: 83 Resp: 10798

Ion Ratio Lower Upper

83 100

85 64.6 52.8 79.2



#30

Cyclohexane

Concen: 0.252 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.003 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

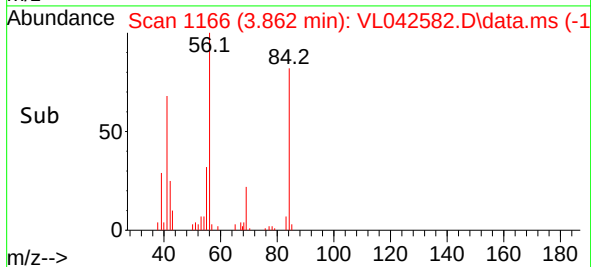
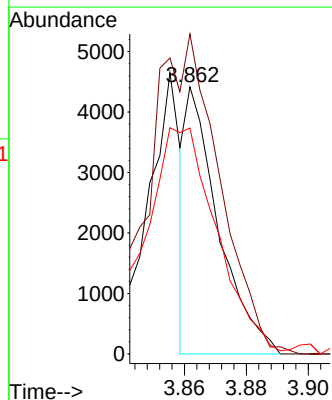
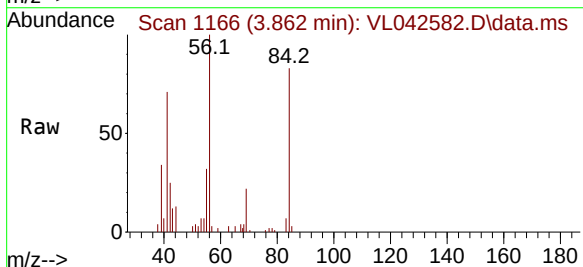
Tgt Ion: 84 Resp: 3216

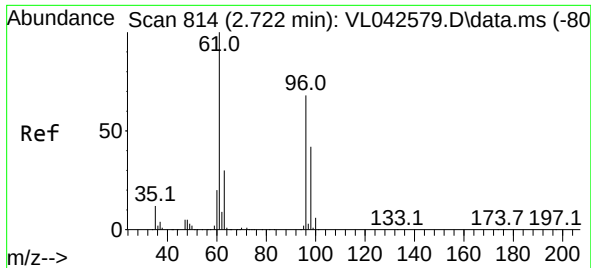
Ion Ratio Lower Upper

84 100

56 263.4 103.7 155.5#

41 0.0 65.1 97.7#

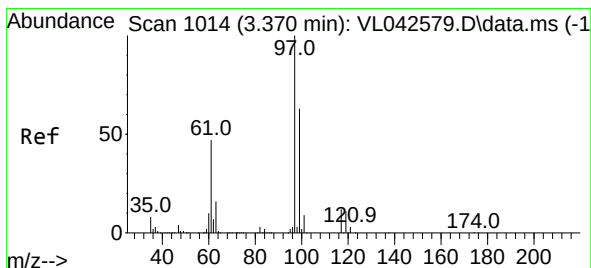
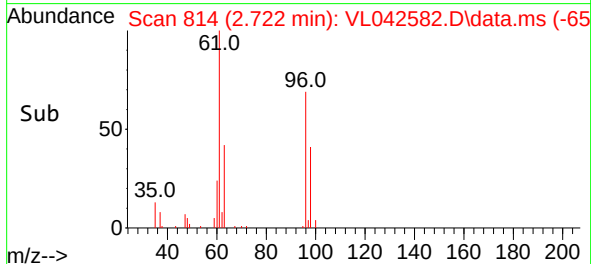
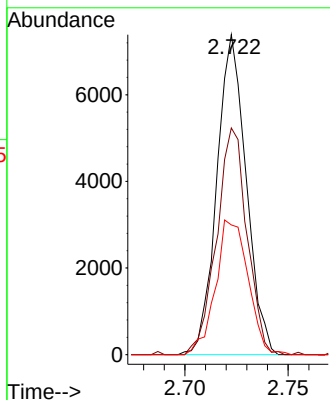
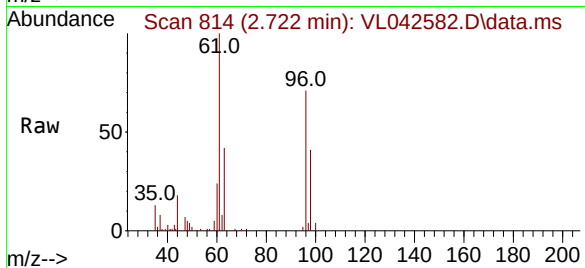




#31
 cis-1,2-Dichloroethene
 Concen: 0.518 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

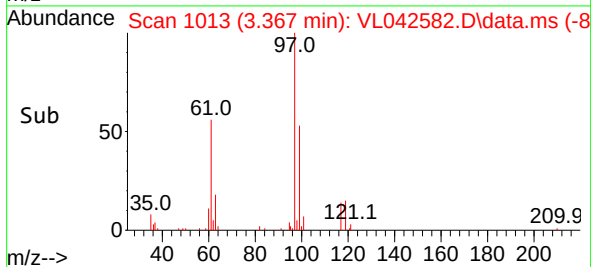
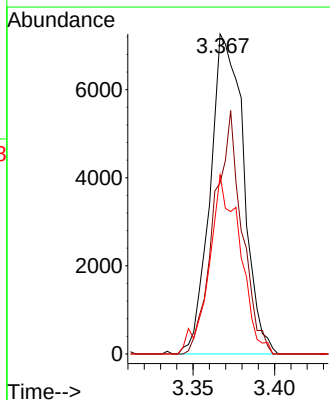
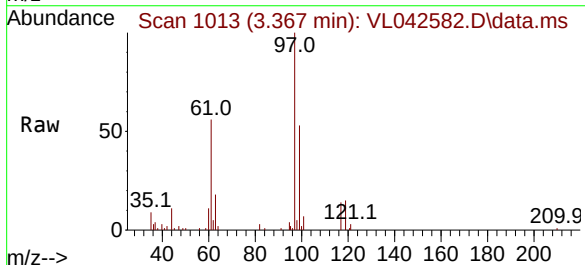
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

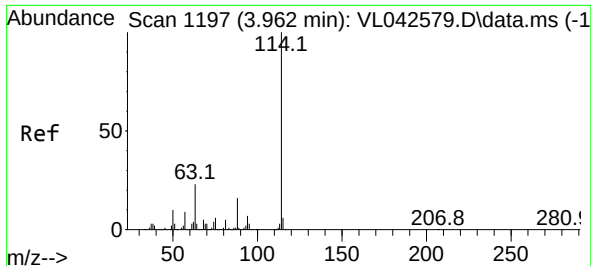
Tgt Ion: 61 Resp: 7302
 Ion Ratio Lower Upper
 61 100
 96 70.9 54.5 81.7
 98 40.5 33.4 50.2



#32
 1,1,1-Trichloroethane
 Concen: 0.513 ppbv
 RT: 3.367 min Scan# 1013
 Delta R.T. -0.003 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

Tgt Ion: 97 Resp: 10309
 Ion Ratio Lower Upper
 97 100
 99 63.9 51.0 76.6
 61 52.1 39.4 59.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.000 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

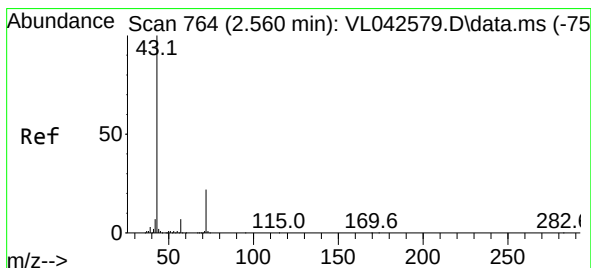
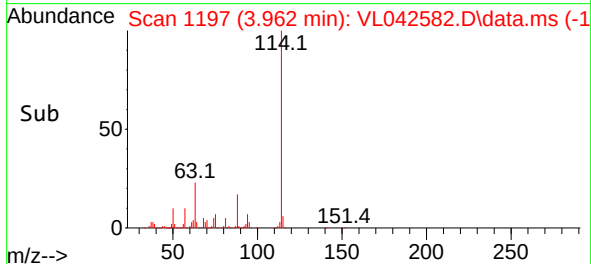
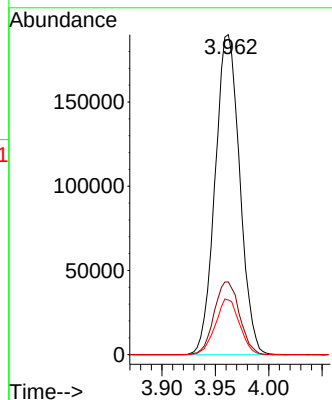
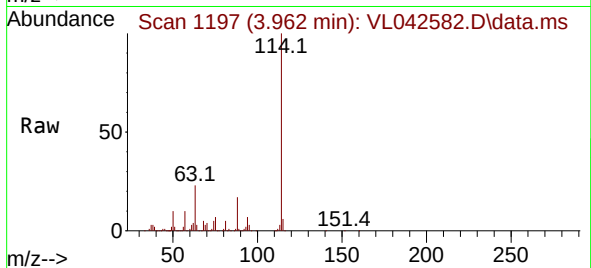
Tgt Ion:114 Resp: 304613

Ion Ratio Lower Upper

114 100

63 23.4 19.0 28.6

88 17.1 13.6 20.4



#34

2-Butanone

Concen: 0.533 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.003 min

Lab File: VL042582.D

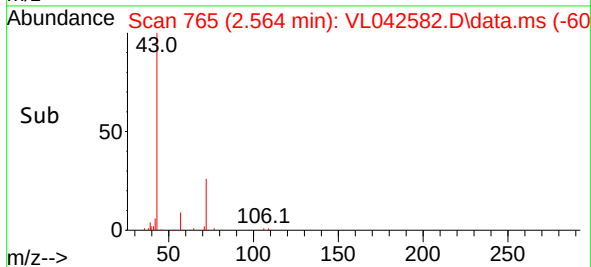
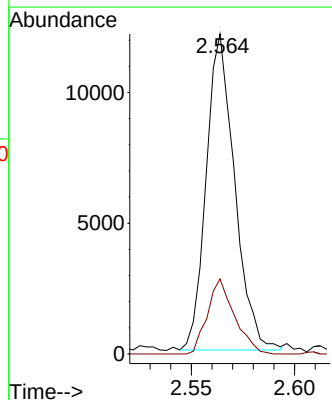
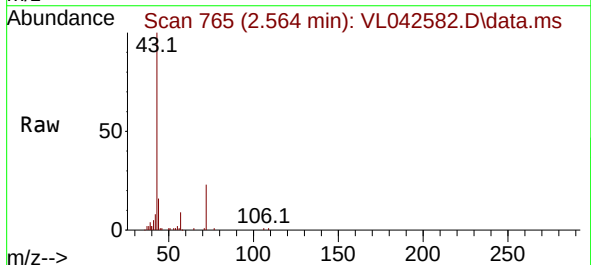
Acq: 29 May 2025 12:47

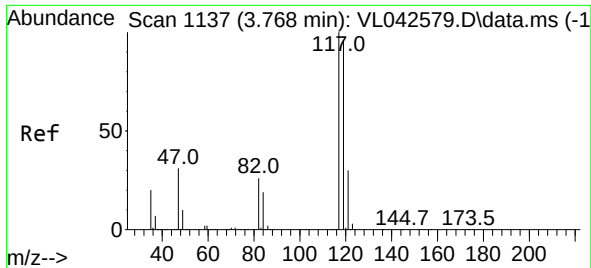
Tgt Ion: 43 Resp: 11569

Ion Ratio Lower Upper

43 100

72 22.5 17.7 26.5

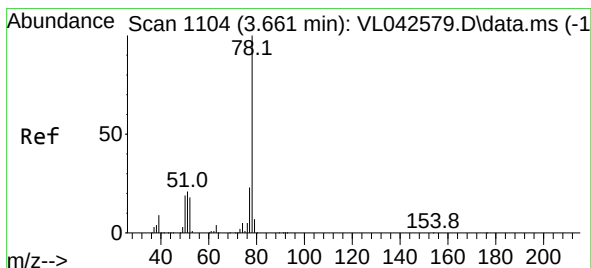
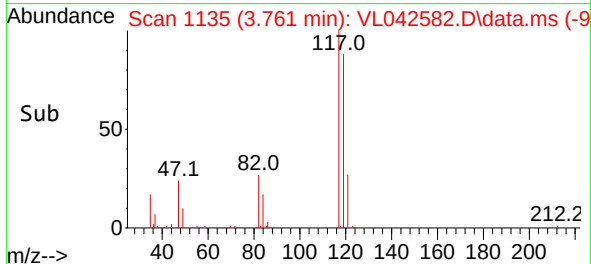
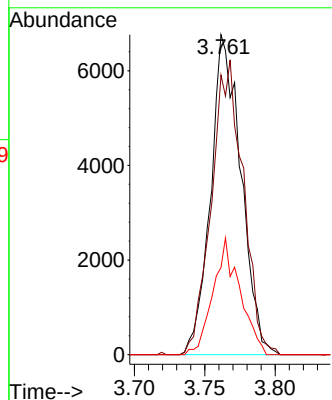
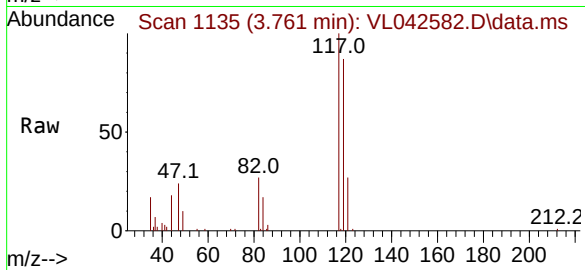




#35
Carbon Tetrachloride
Concen: 0.503 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.006 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

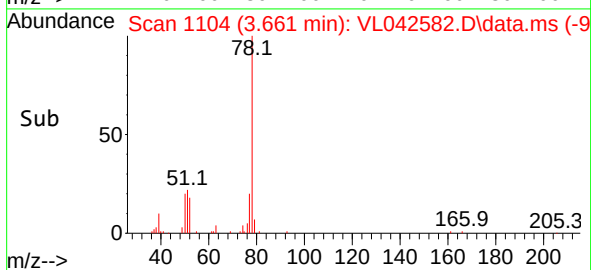
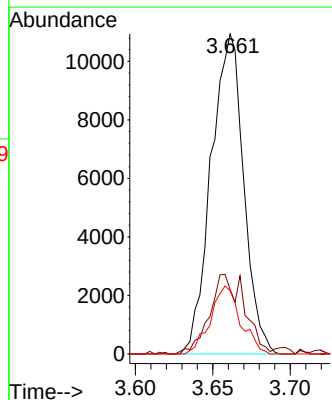
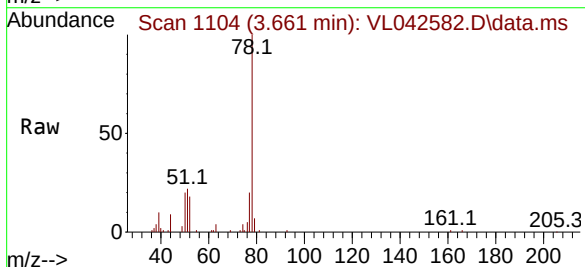
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

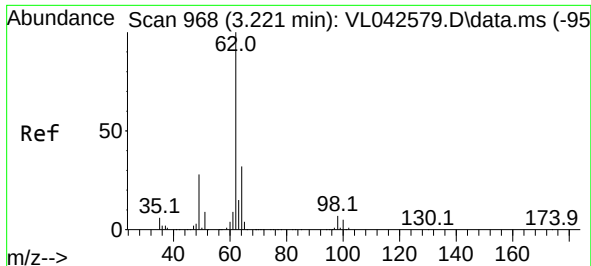
Tgt Ion:117 Resp: 10126
Ion Ratio Lower Upper
117 100
119 87.4 76.8 115.2
121 27.2 24.3 36.5



#36
Benzene
Concen: 0.533 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 78 Resp: 16000
Ion Ratio Lower Upper
78 100
77 19.4 18.2 27.2
50 19.8 15.2 22.8

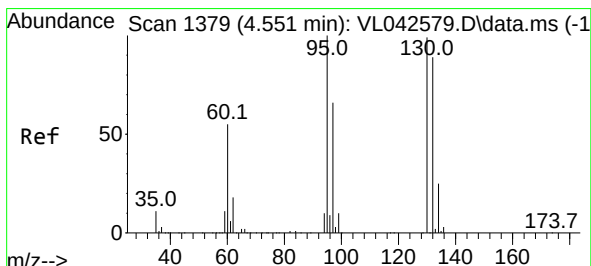
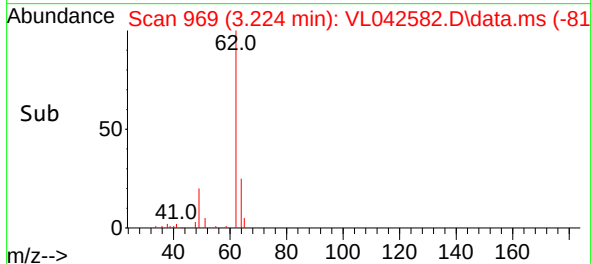
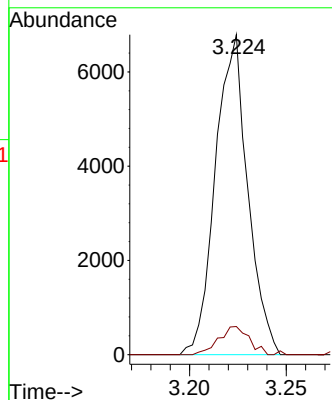
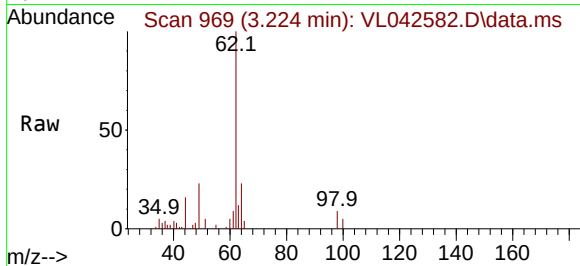




#37
1,2-Dichloroethane
Concen: 0.529 ppbv
RT: 3.224 min Scan# 90
Delta R.T. 0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

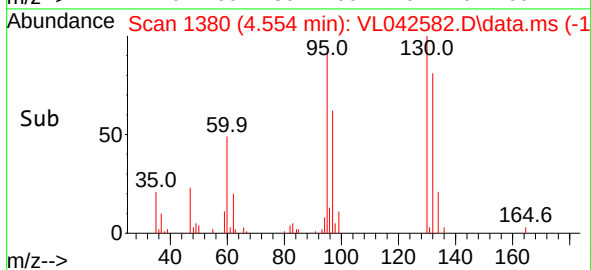
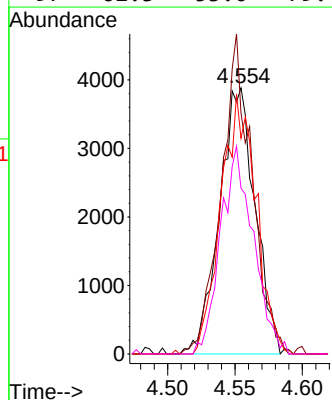
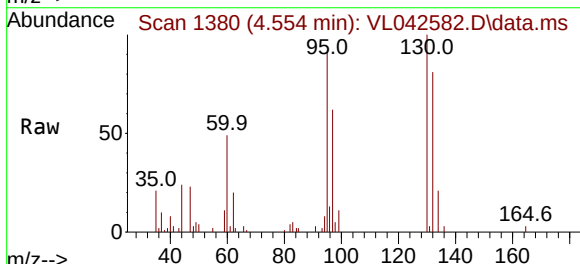
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

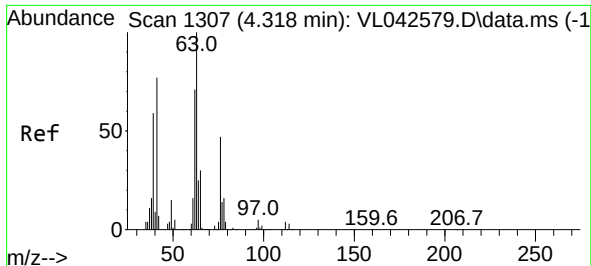
Tgt Ion: 62 Resp: 7883
Ion Ratio Lower Upper
62 100
98 8.4 6.1 9.1



#38
Trichloroethene
Concen: 0.555 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. 0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 130 Resp: 7126
Ion Ratio Lower Upper
130 100
95 90.6 80.6 121.0
132 81.1 71.8 107.6
97 62.3 53.0 79.4





#39

1,2-Dichloropropane

Concen: 0.376 ppbv

RT: 4.318 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

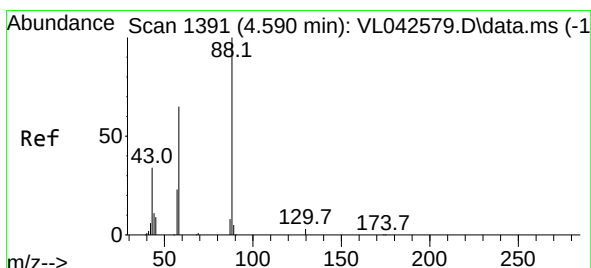
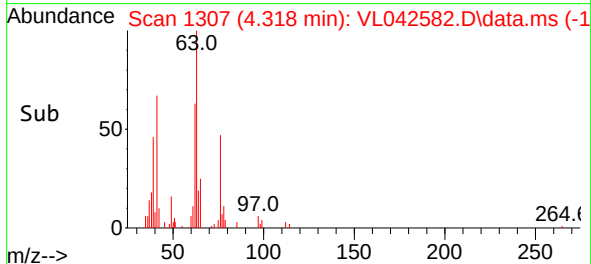
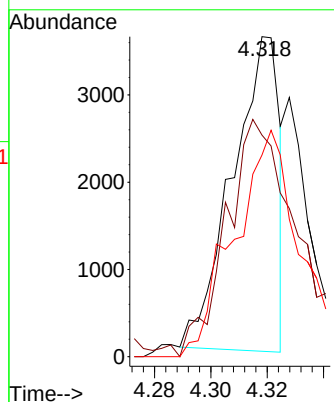
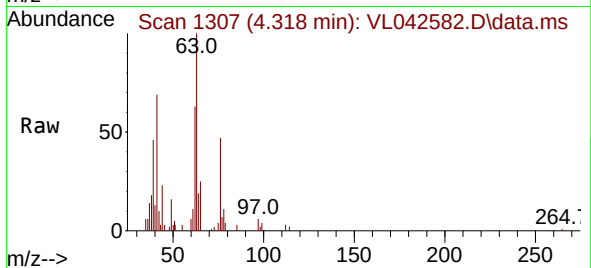
Tgt Ion: 63 Resp: 4173

Ion Ratio Lower Upper

63 100

41 74.8 61.8 92.6

62 68.1 56.6 85.0



#40

1,4-Dioxane

Concen: 0.352 ppbv

RT: 4.609 min Scan# 1397

Delta R.T. 0.020 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Tgt Ion: 88 Resp: 1661

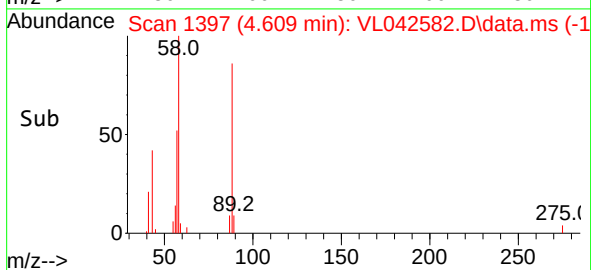
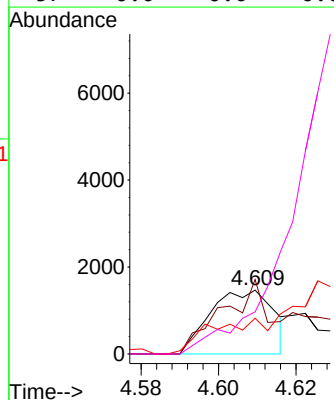
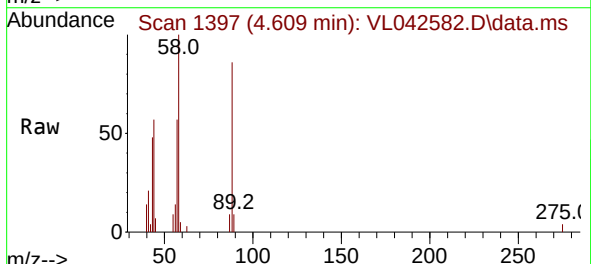
Ion Ratio Lower Upper

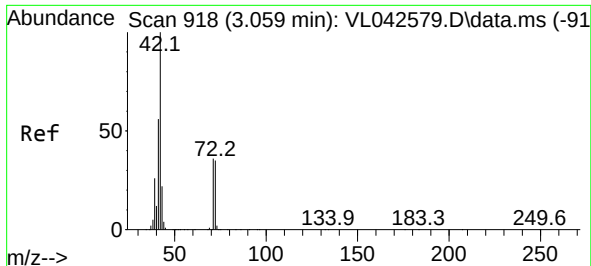
88 100

58 206.7 55.8 83.8#

43 24.3 24.8 37.2#

57 0.0 0.0 0.0

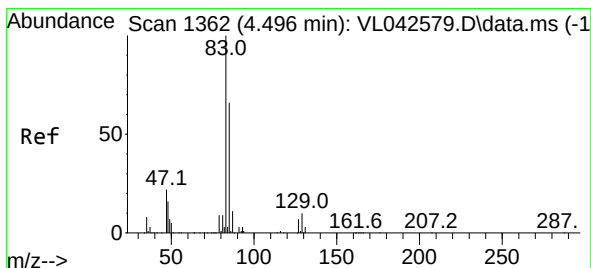
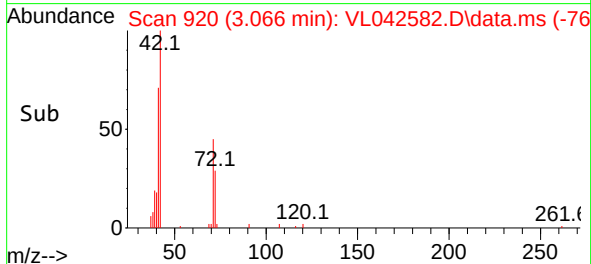
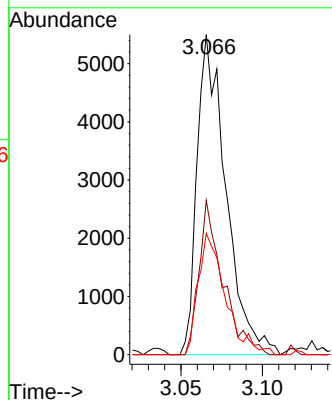
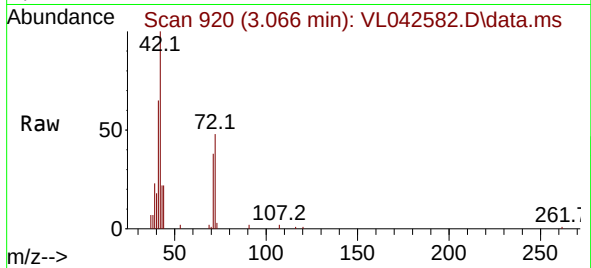




#41
Tetrahydrofuran
Concen: 0.533 ppbv
RT: 3.066 min Scan# 918
Delta R.T. 0.007 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

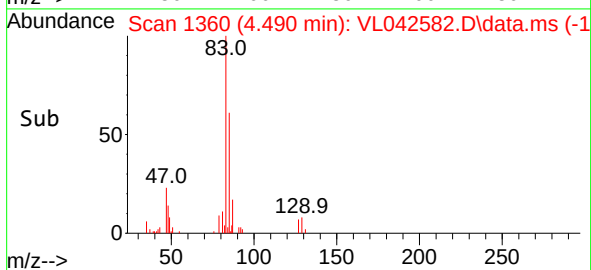
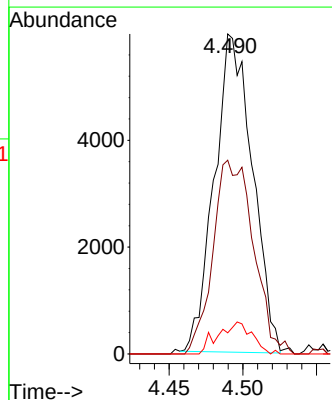
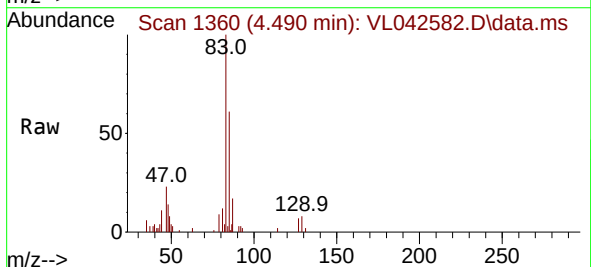
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

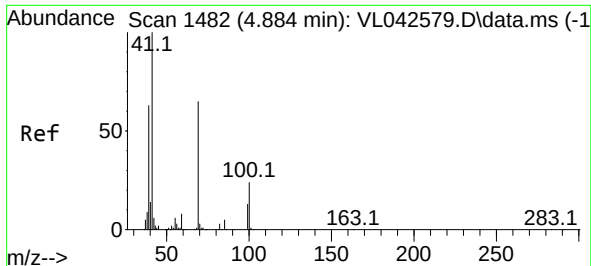
Tgt Ion: 42 Resp: 6775
Ion Ratio Lower Upper
42 100
72 40.4 28.9 43.3
71 36.2 28.5 42.7



#42
Bromodichloromethane
Concen: 0.505 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. -0.006 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 83 Resp: 10688
Ion Ratio Lower Upper
83 100
85 61.1 52.7 79.1
127 6.6 5.8 8.6

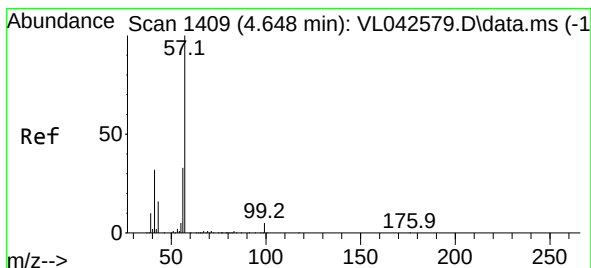
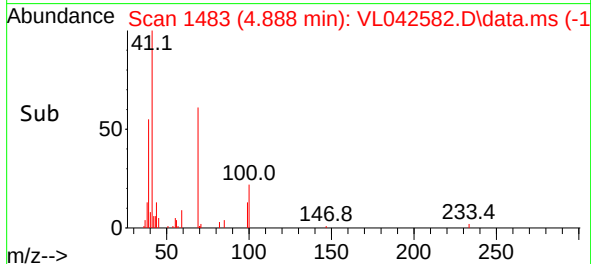
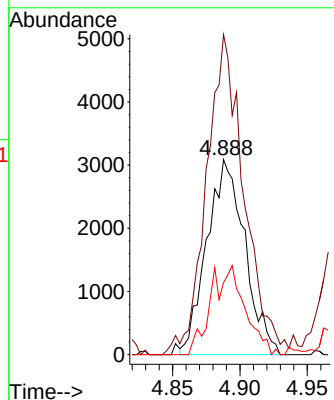
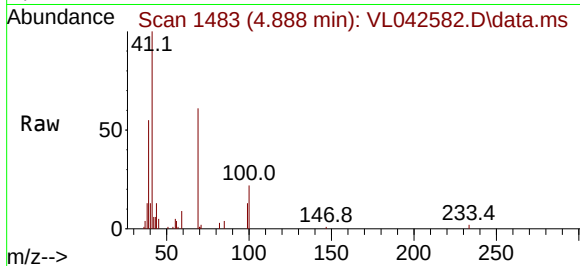




#43
Methyl Methacrylate
Concen: 0.521 ppbv
RT: 4.888 min Scan# 1483
Delta R.T. 0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

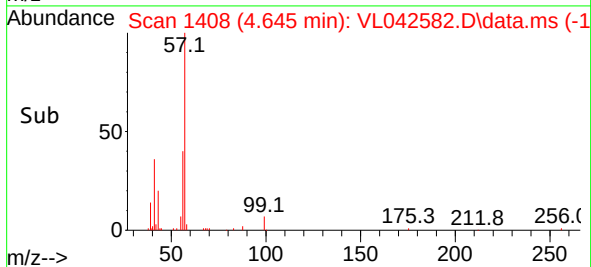
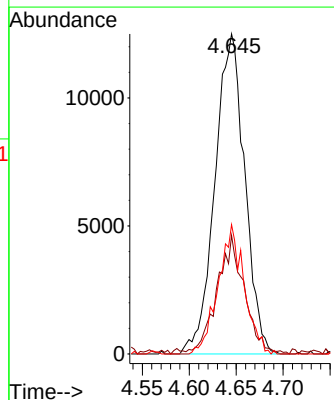
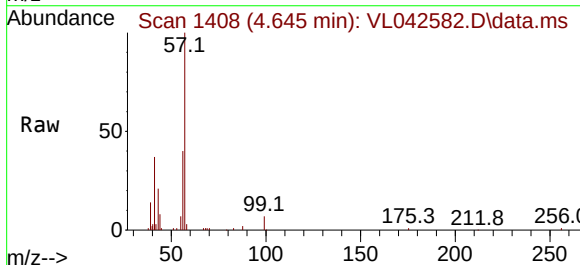
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

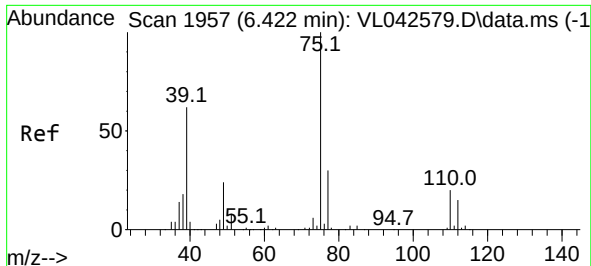
Tgt Ion: 69 Resp: 6056
Ion Ratio Lower Upper
69 100
41 160.5 124.6 187.0
100 42.4 29.9 44.9



#44
2,2,4-Trimethylpentane
Concen: 0.538 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 57 Resp: 27584
Ion Ratio Lower Upper
57 100
41 34.8 26.1 39.1
56 35.2 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 0.495 ppbv

RT: 6.422 min Scan# 1957

Delta R.T. 0.000 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_1

ClientSampleId :

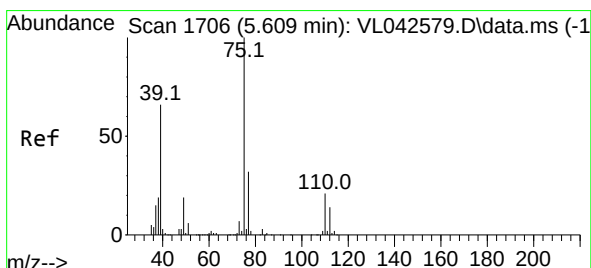
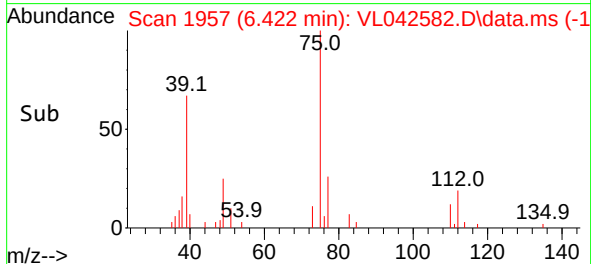
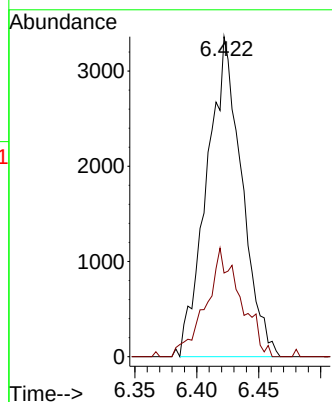
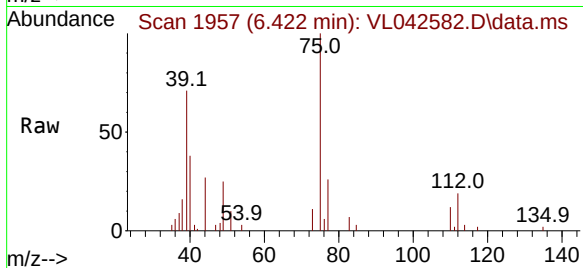
VSTDIC0.5

Tgt Ion: 75 Resp: 6598

Ion Ratio Lower Upper

75 100

77 26.1 24.2 36.2



#46

cis-1,3-Dichloropropene

Concen: 0.410 ppbv

RT: 5.603 min Scan# 1704

Delta R.T. -0.006 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

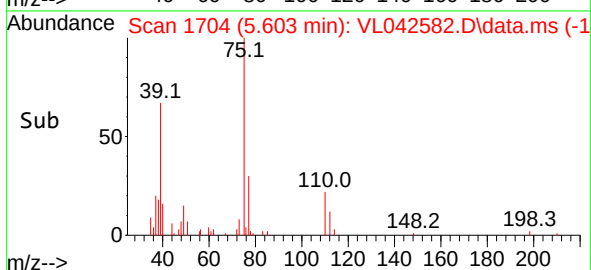
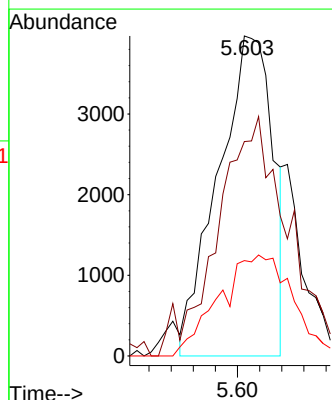
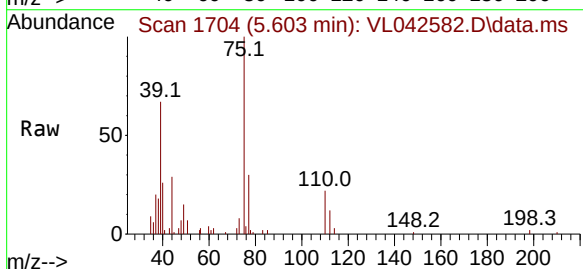
Tgt Ion: 75 Resp: 6845

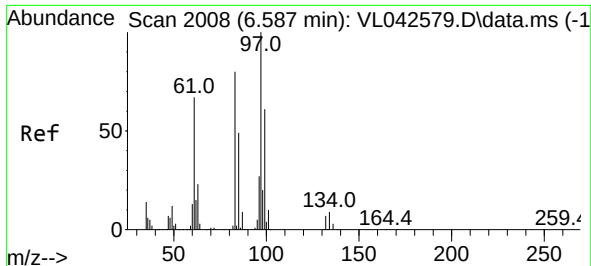
Ion Ratio Lower Upper

75 100

39 66.4 52.7 79.1

77 28.9 25.8 38.8

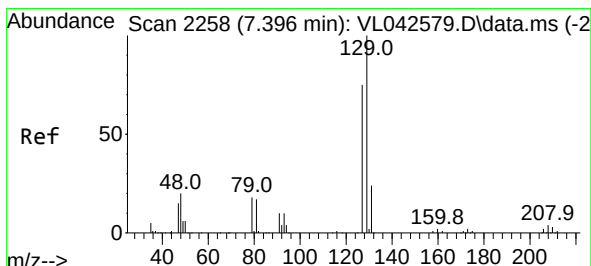
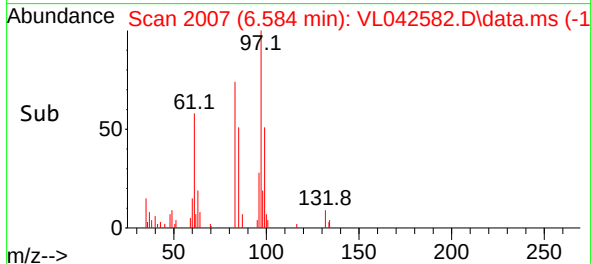
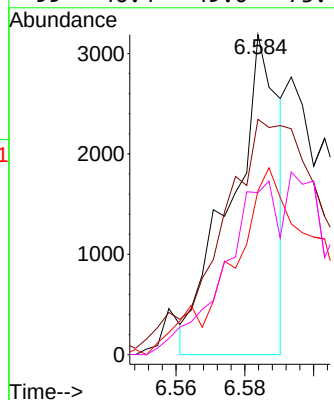
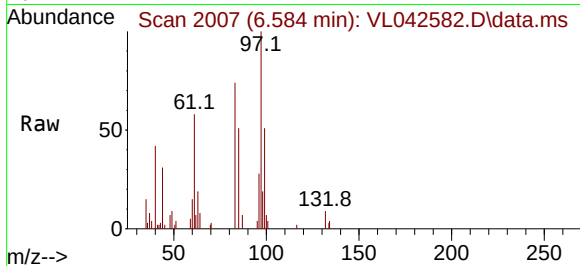




#47
1,1,2-Trichloroethane
Concen: 0.269 ppbv
RT: 6.584 min Scan# 2008
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

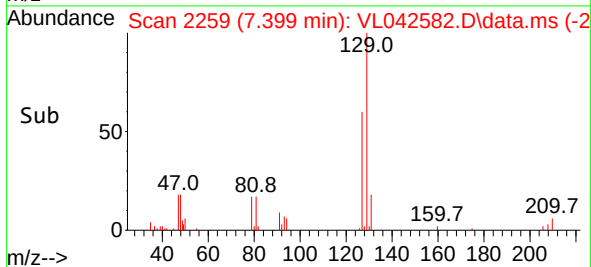
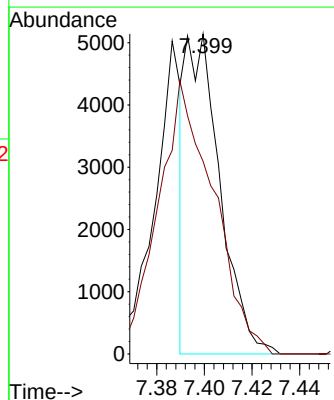
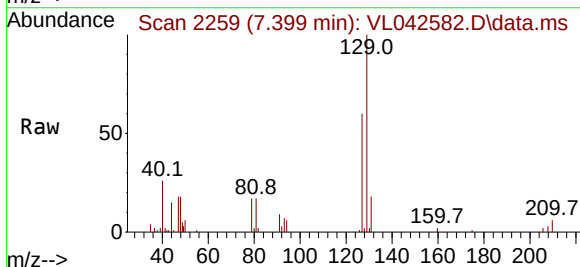
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

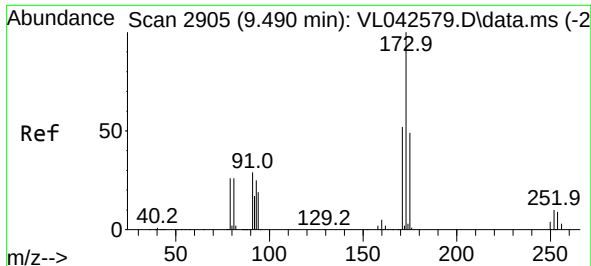
Tgt Ion: 97	Resp: 3090
Ion Ratio	Lower Upper
97 100	
83 69.0	63.9 95.9
85 45.0	39.2 58.8
99 46.4	49.0 73.4#



#48
Dibromochloromethane
Concen: 0.278 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion:129	Resp:	5119	
Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.0	116.9#





#49

Bromoform

Concen: 0.503 ppbv

RT: 9.484 min Scan# 2905

Delta R.T. -0.006 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

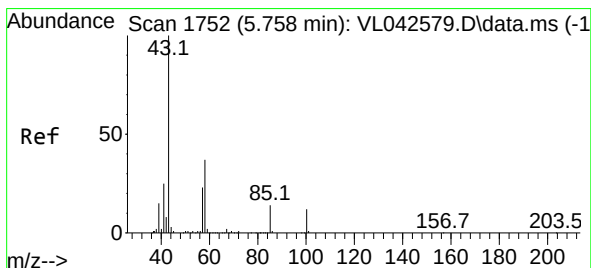
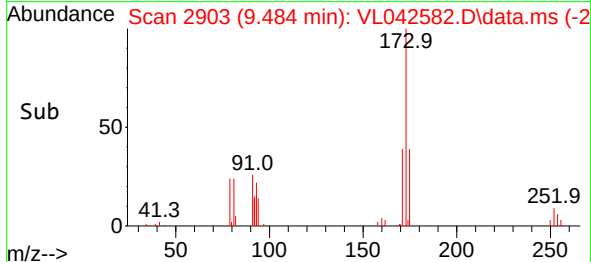
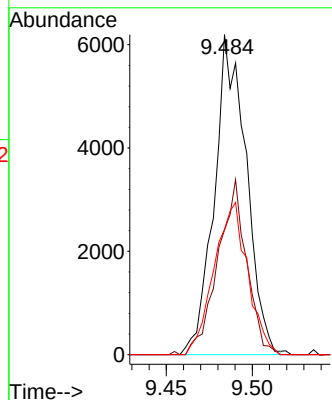
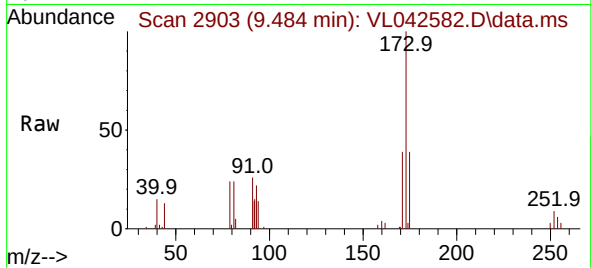
Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.5

Tgt Ion:173	Resp:	7974
Ion	Ratio	Lower Upper
173	100	
175	49.4	38.7 58.1
171	50.2	41.2 61.8



#50

4-Methyl-2-Pentanone

Concen: 0.279 ppbv

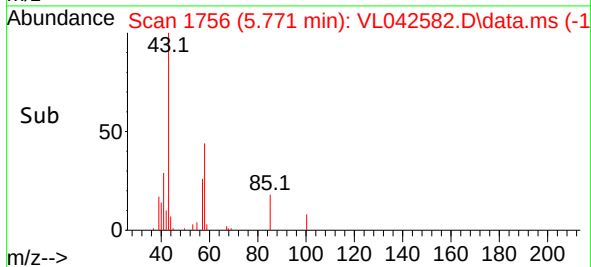
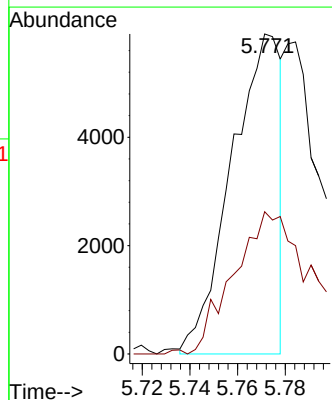
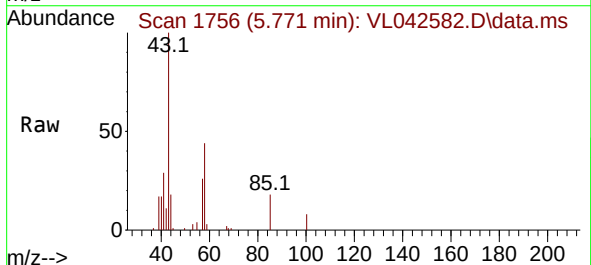
RT: 5.771 min Scan# 1756

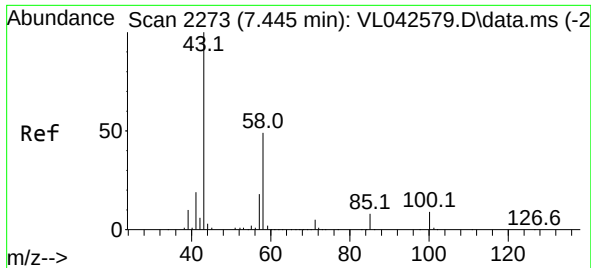
Delta R.T. 0.013 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Tgt Ion: 43	Resp:	8451
Ion	Ratio	Lower Upper
43	100	
58	75.5	28.3 42.5#

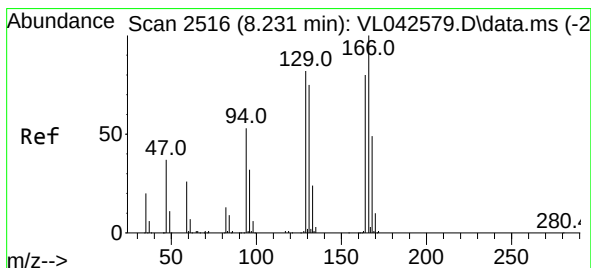
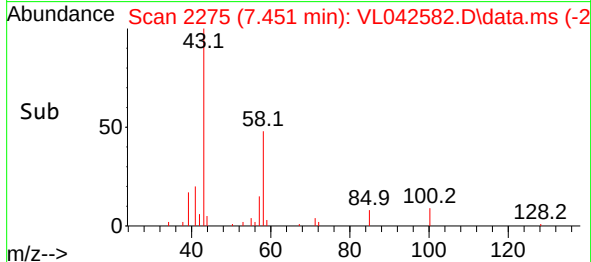
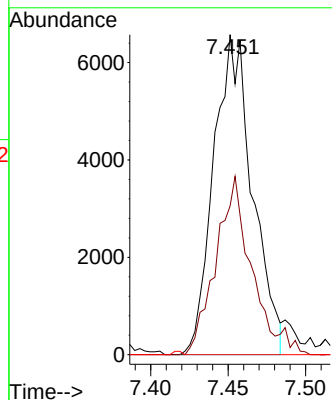
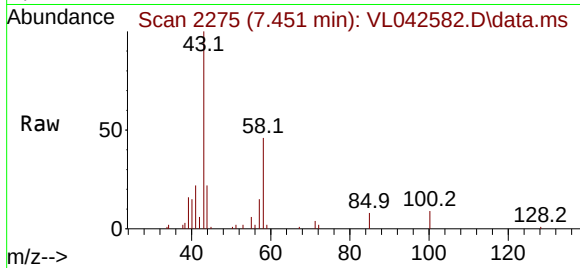




#51
2-Hexanone
Concen: 0.479 ppbv
RT: 7.451 min Scan# 211
Delta R.T. 0.007 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

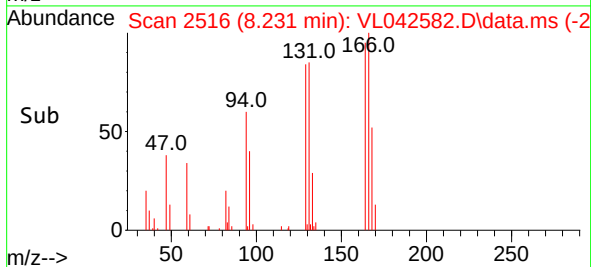
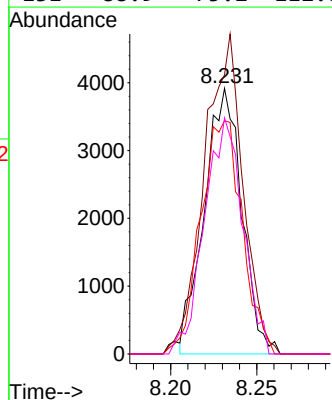
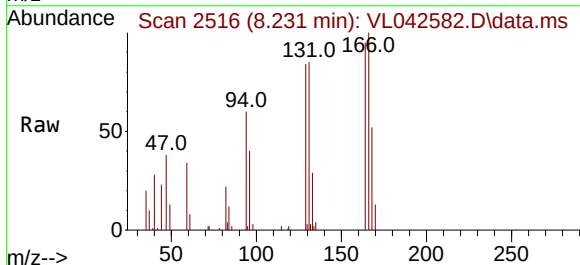
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

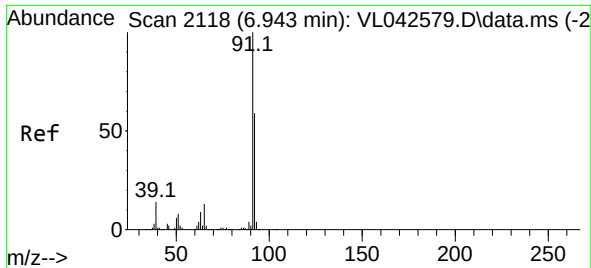
Tgt Ion: 43 Resp: 11458
Ion Ratio Lower Upper
43 100
58 51.5 39.9 59.9
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.531 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion:164 Resp: 5950
Ion Ratio Lower Upper
164 100
166 105.1 100.0 150.0
129 87.8 82.2 123.4
131 88.9 75.2 112.8

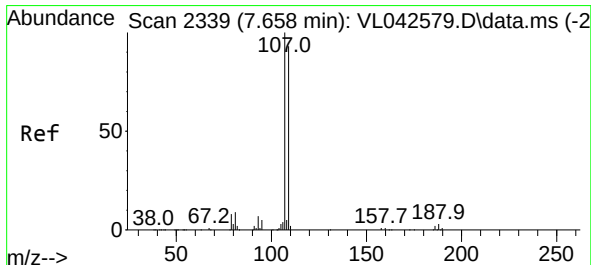
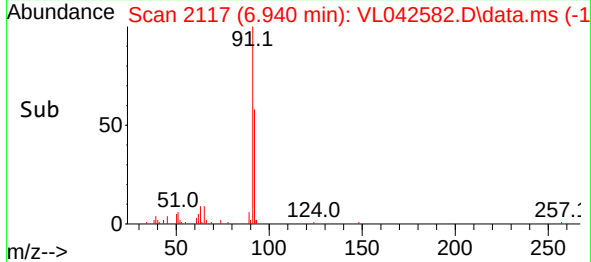
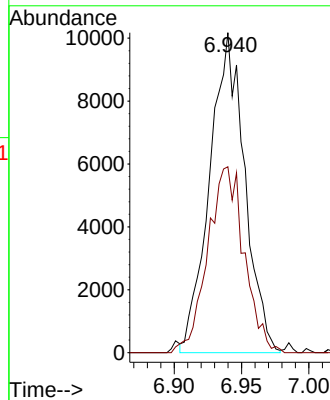
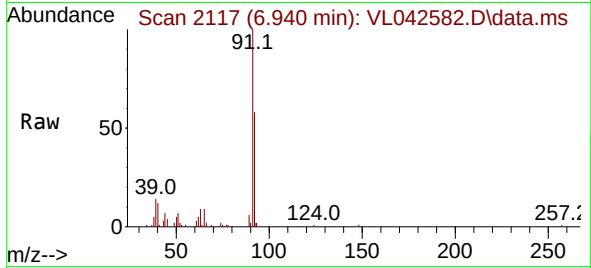




#53
Toluene
Concen: 0.532 ppbv
RT: 6.940 min Scan# 2118
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

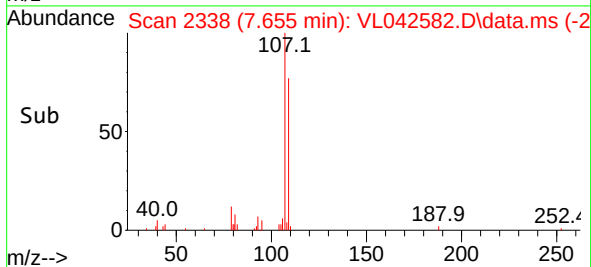
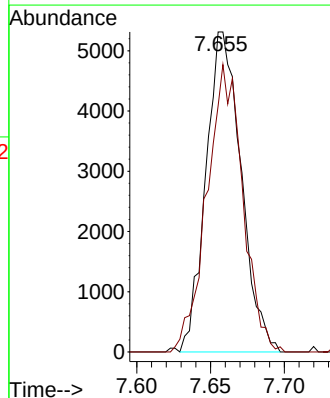
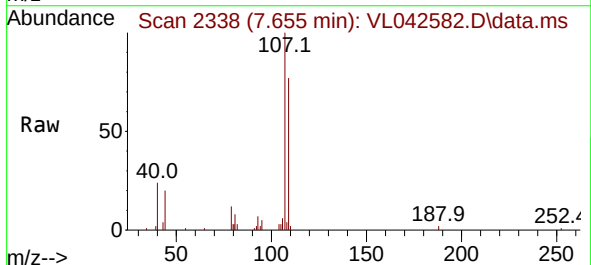
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

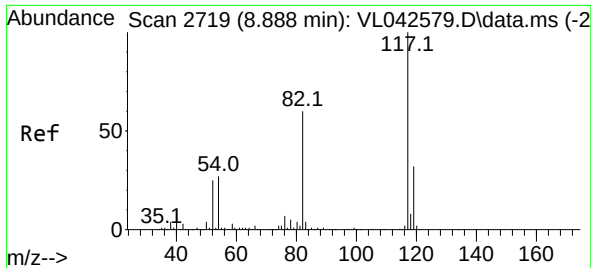
Tgt Ion: 91 Resp: 18429
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.4



#54
1,2-Dibromoethane
Concen: 0.518 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 107 Resp: 8810
Ion Ratio Lower Upper
107 100
109 75.3 74.3 111.5

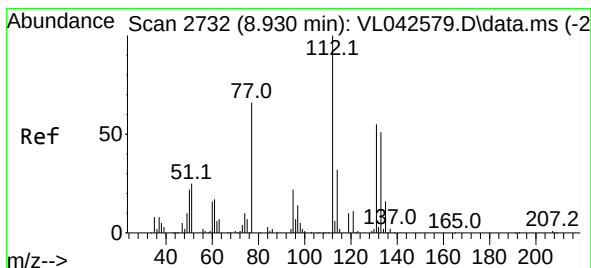
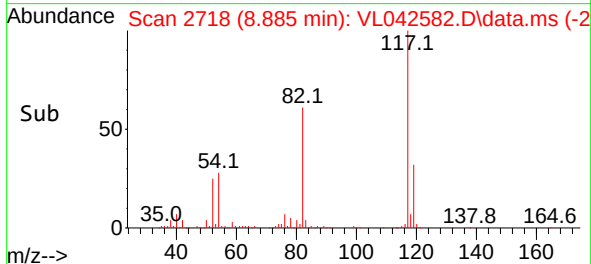
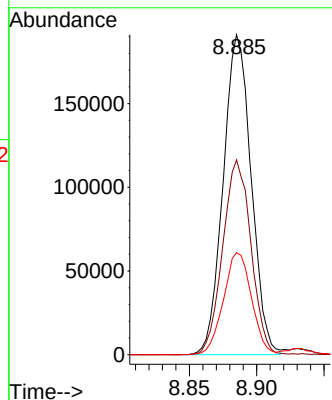
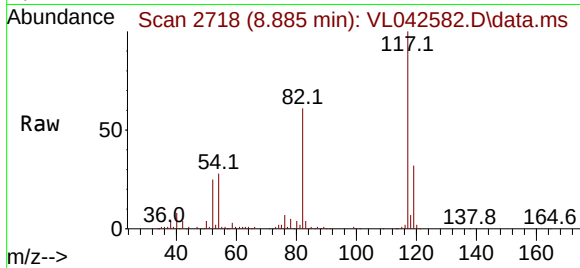




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

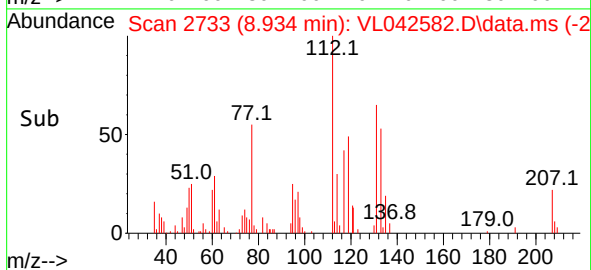
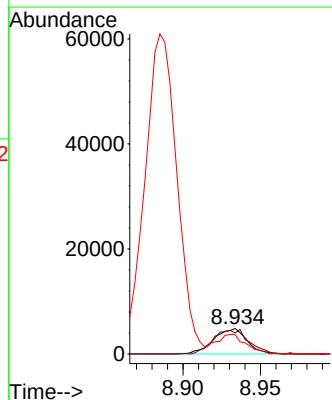
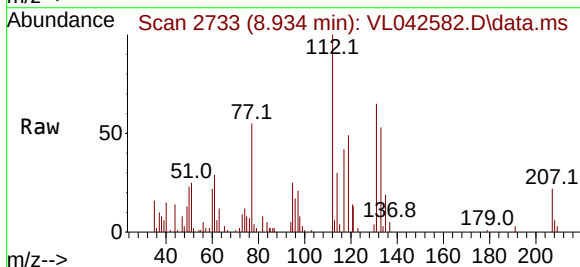
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

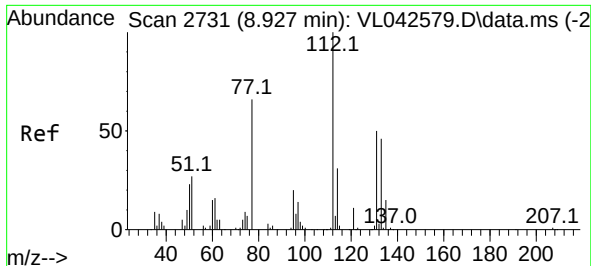
Tgt Ion:117 Resp: 276104
Ion Ratio Lower Upper
117 100
82 61.6 51.2 76.8
119 32.5 26.3 39.5



#56
1,1,1,2-Tetrachloroethane
Concen: 0.517 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion:131 Resp: 7178
Ion Ratio Lower Upper
131 100
133 102.6 75.0 112.6
119 52.0 50.8 76.2

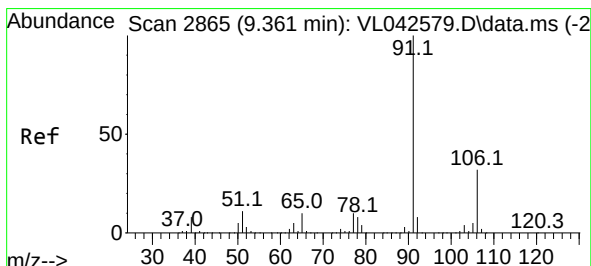
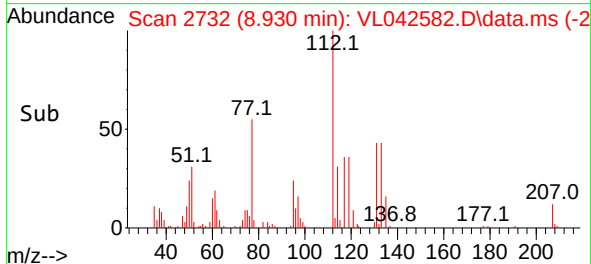
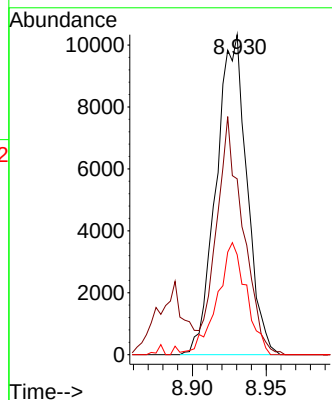
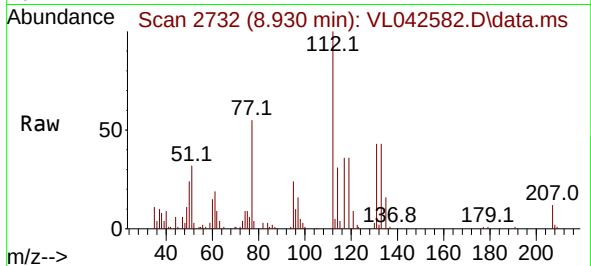




#57
Chlorobenzene
Concen: 0.557 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

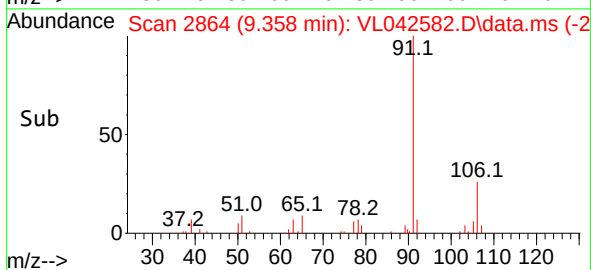
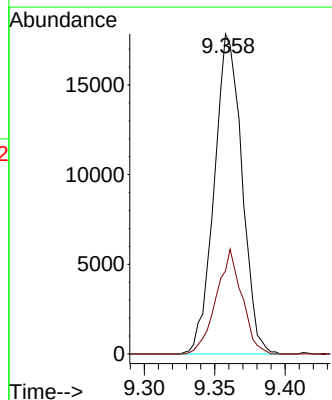
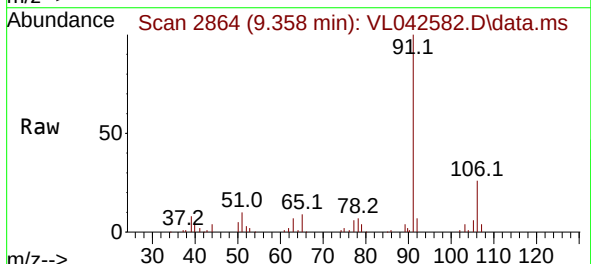
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

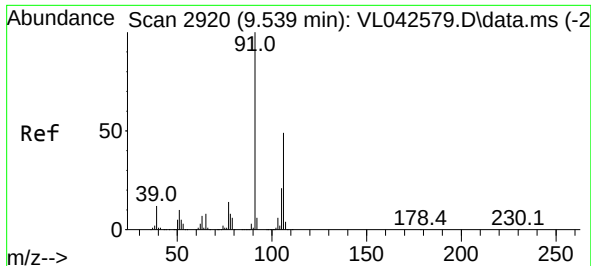
Tgt Ion:112 Resp: 14920
Ion Ratio Lower Upper
112 100
77 54.0 53.5 80.3
114 31.2 27.8 34.0



#58
Ethyl Benzene
Concen: 0.522 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 91 Resp: 24442
Ion Ratio Lower Upper
91 100
106 25.9 25.9 38.9





#59

m/p-Xylene

Concen: 0.398 ppbv

RT: 9.536 min Scan# 2919

Delta R.T. -0.003 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

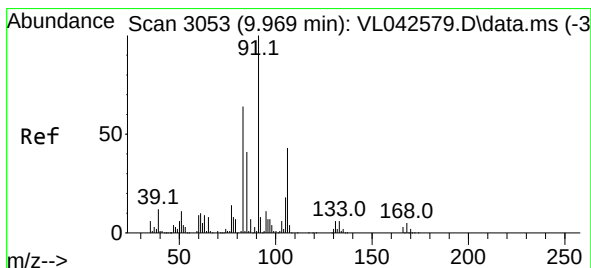
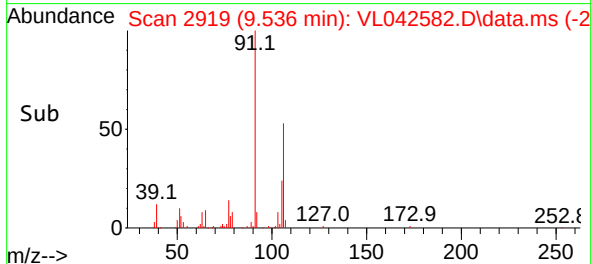
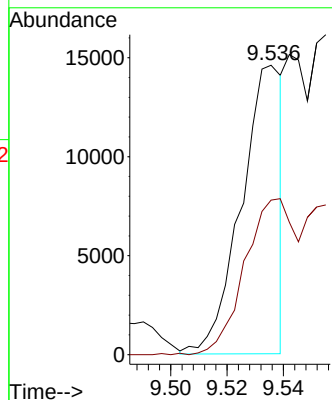
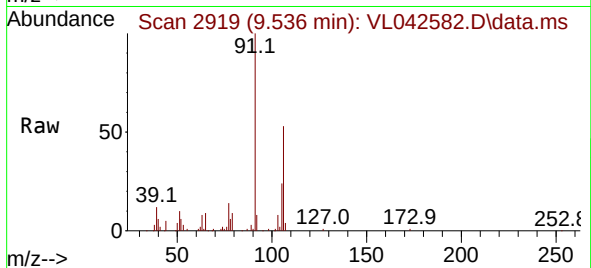
VSTDIC0.5

Tgt Ion: 91 Resp: 14666

Ion Ratio Lower Upper

91 100

106 0.0 38.8 58.2#



#60

o-Xylene

Concen: 0.537 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.003 min

Lab File: VL042582.D

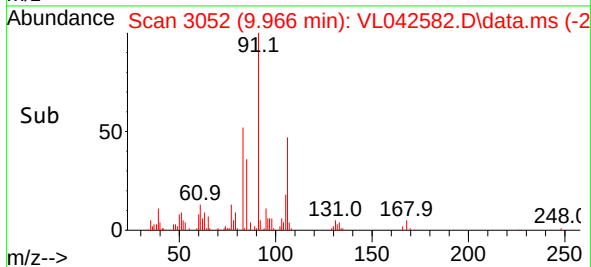
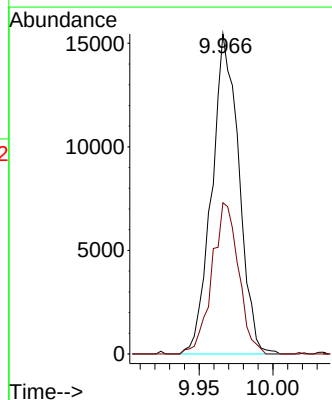
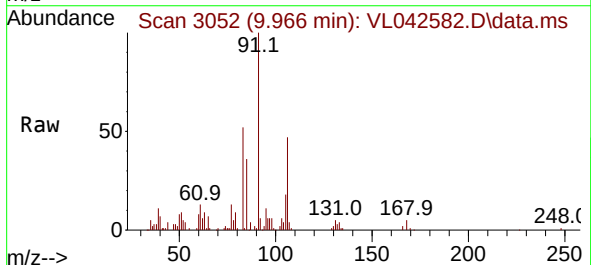
Acq: 29 May 2025 12:47

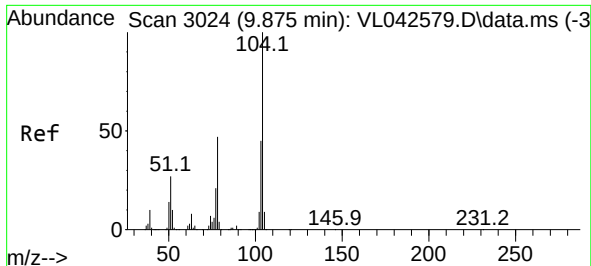
Tgt Ion: 91 Resp: 19745

Ion Ratio Lower Upper

91 100

106 46.2 22.9 68.5

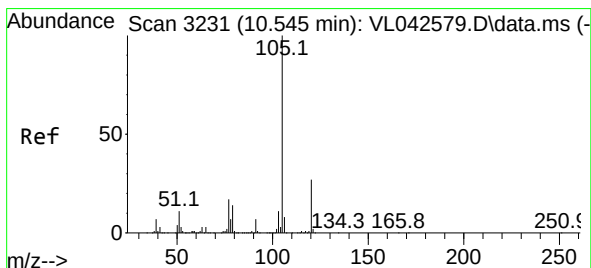
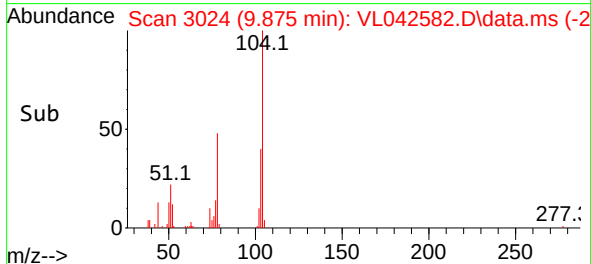
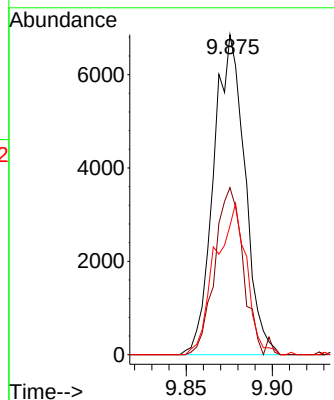
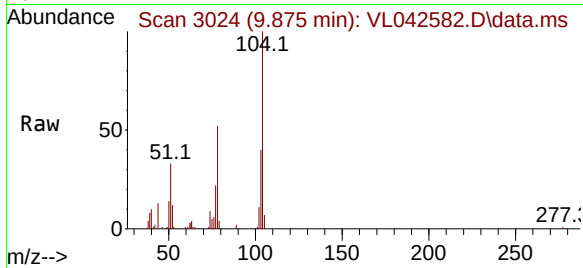




#61
Styrene
Concen: 0.497 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

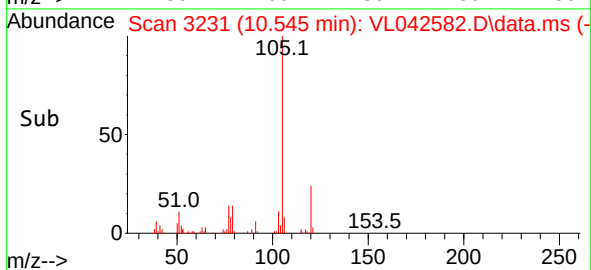
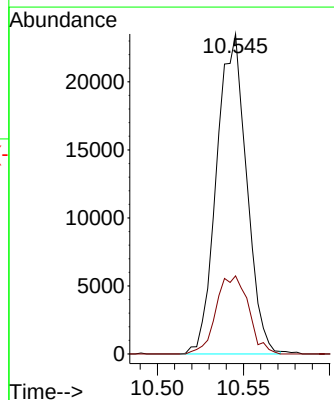
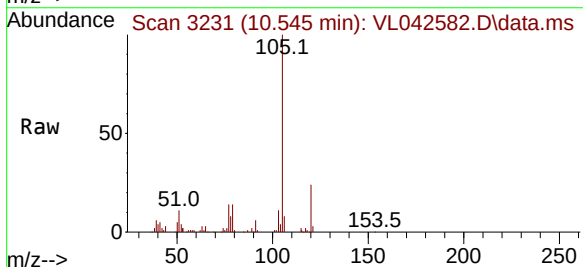
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

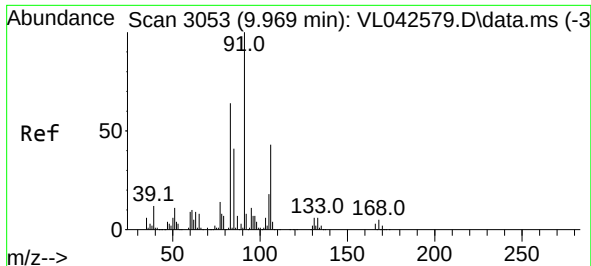
Tgt Ion:104 Resp: 8639
Ion Ratio Lower Upper
104 100
78 47.9 38.2 57.4
103 47.6 36.7 55.1



#62
Isopropylbenzene
Concen: 0.524 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion:105 Resp: 28442
Ion Ratio Lower Upper
105 100
120 26.4 20.9 31.3





#63

1,1,2,2-Tetrachloroethane

Concen: 0.519 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. 0.000 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.5

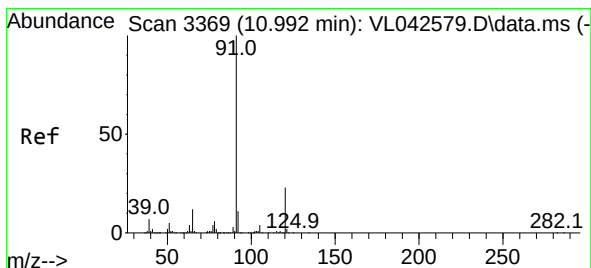
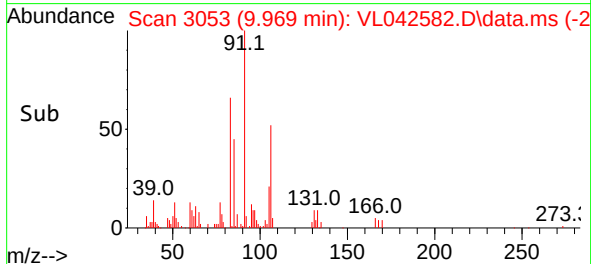
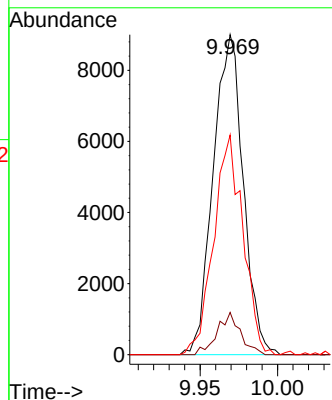
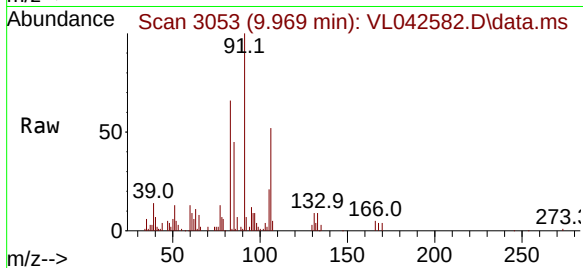
Tgt Ion: 83 Resp: 12137

Ion Ratio Lower Upper

83 100

131 10.2 4.8 14.4

85 67.5 32.5 97.4



#64

n-propylbenzene

Concen: 0.549 ppbv

RT: 10.995 min Scan# 3370

Delta R.T. 0.003 min

Lab File: VL042582.D

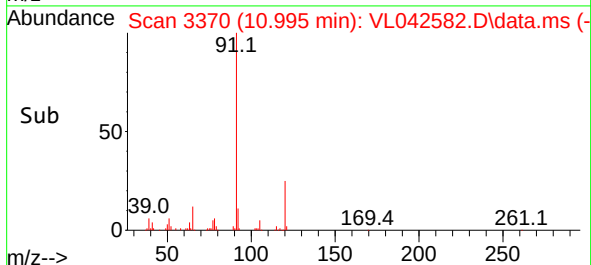
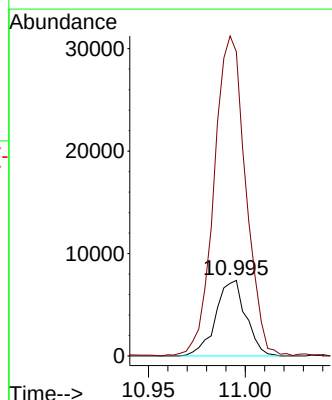
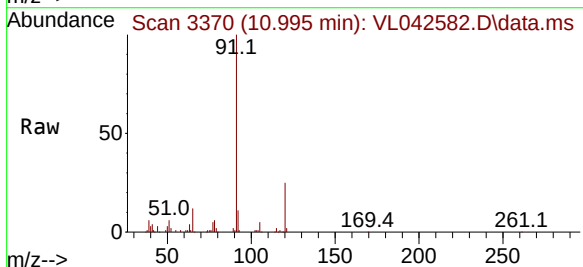
Acq: 29 May 2025 12:47

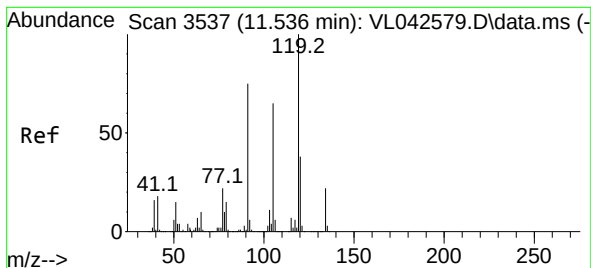
Tgt Ion: 120 Resp: 7993

Ion Ratio Lower Upper

120 100

91 447.2 363.0 544.6





#65

tert-Butylbenzene

Concen: 0.545 ppbv

RT: 11.533 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.5

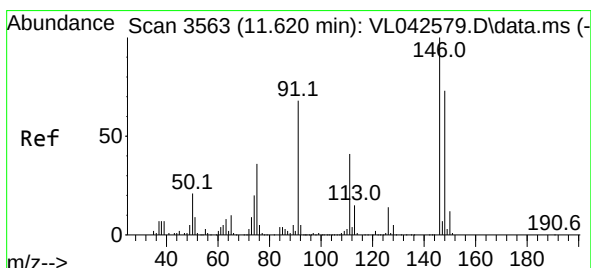
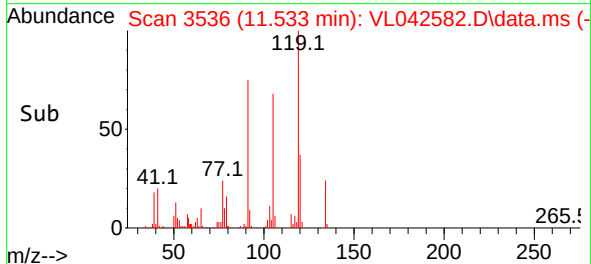
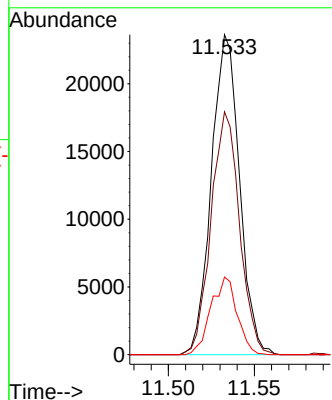
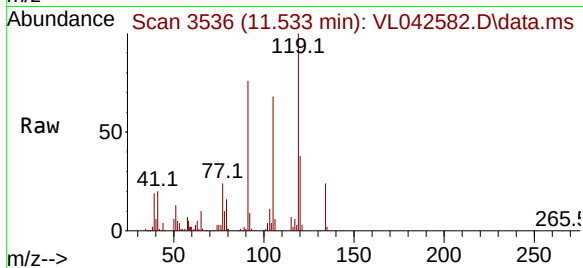
Tgt Ion:119 Resp: 26856

Ion Ratio Lower Upper

119 100

91 76.7 61.1 91.7

134 22.6 17.4 26.2



#66

Benzyl Chloride

Concen: 0.220 ppbv

RT: 11.614 min Scan# 3561

Delta R.T. -0.006 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

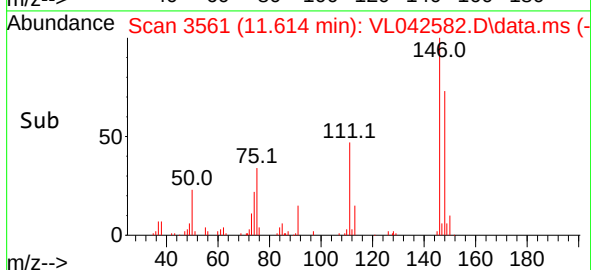
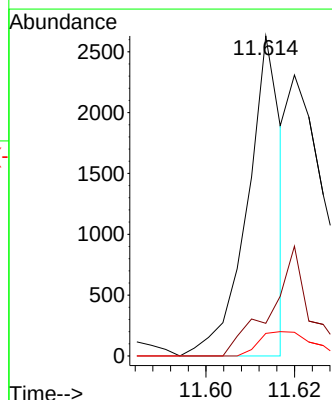
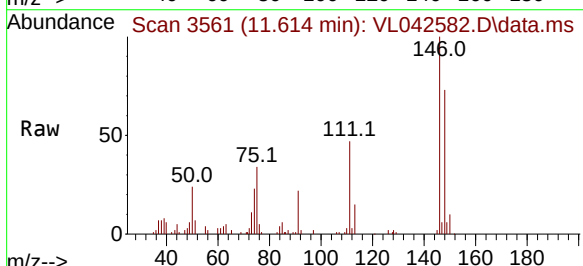
Tgt Ion: 91 Resp: 1398

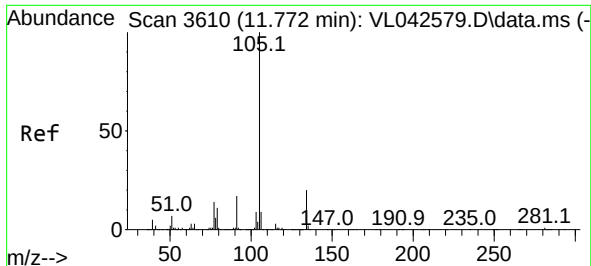
Ion Ratio Lower Upper

91 100

126 0.0 15.1 22.7#

128 0.0 5.0 7.6#

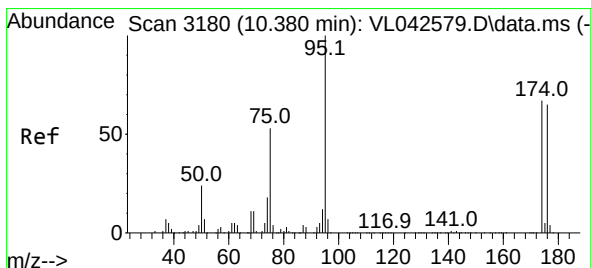
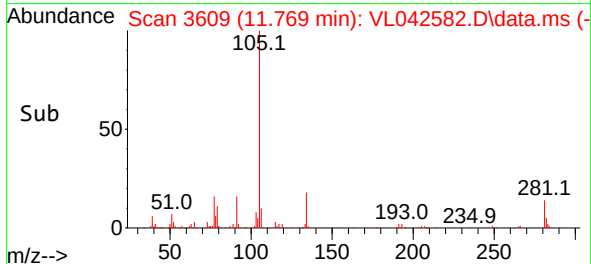
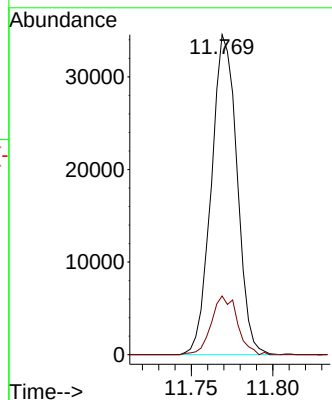
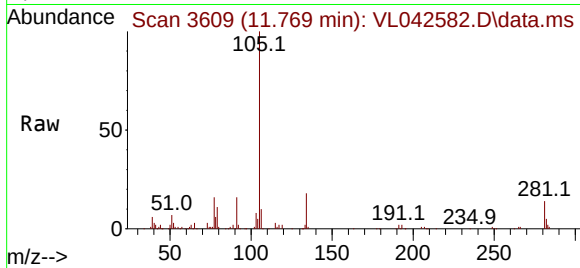




#67
 sec-Butylbenzene
 Concen: 0.547 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.003 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

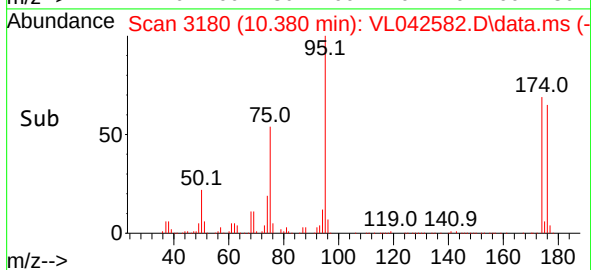
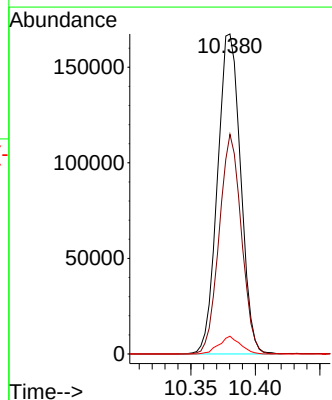
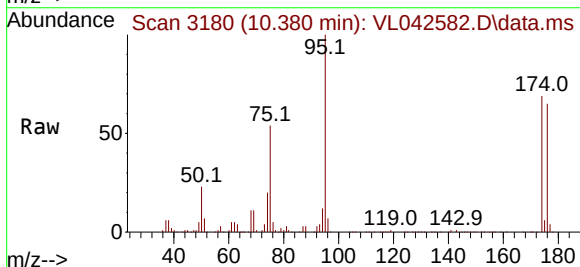
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

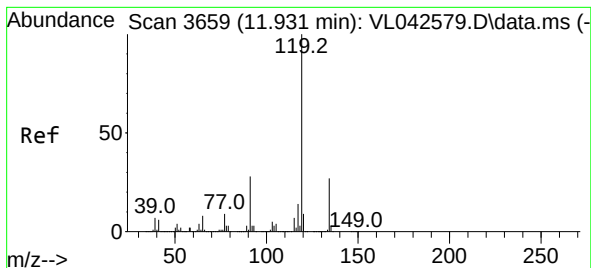
Tgt Ion:105 Resp: 37899
 Ion Ratio Lower Upper
 105 100
 134 18.6 15.8 23.6



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.065 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.000 min
 Lab File: VL042582.D
 Acq: 29 May 2025 12:47

Tgt Ion: 95 Resp: 208325
 Ion Ratio Lower Upper
 95 100
 174 66.0 53.1 79.7
 175 5.1 4.2 6.2





#69

p-Isopropyltoluene

Concen: 0.533 ppbv

RT: 11.931 min Scan# 30931

Delta R.T. 0.000 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

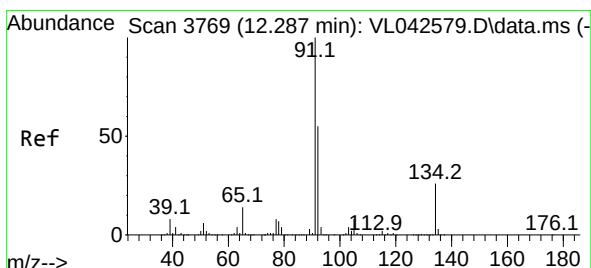
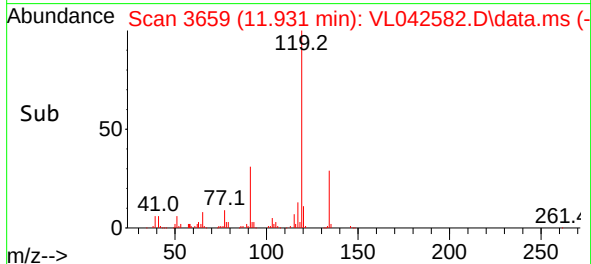
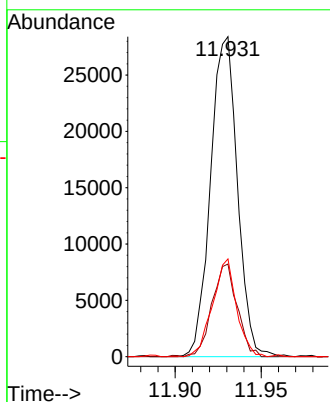
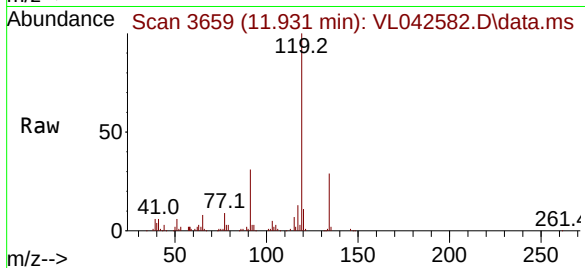
Tgt Ion:119 Resp: 30931

Ion Ratio Lower Upper

119 100

134 27.1 21.1 31.7

91 27.5 21.9 32.9



#70

n-Butylbenzene

Concen: 0.509 ppbv

RT: 12.284 min Scan# 3768

Delta R.T. -0.003 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

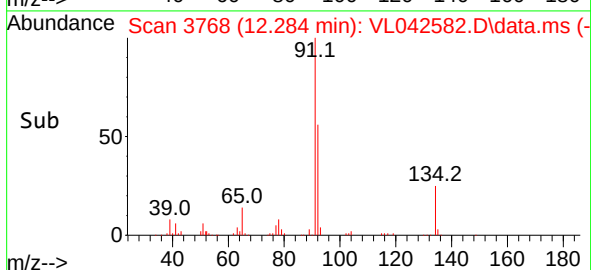
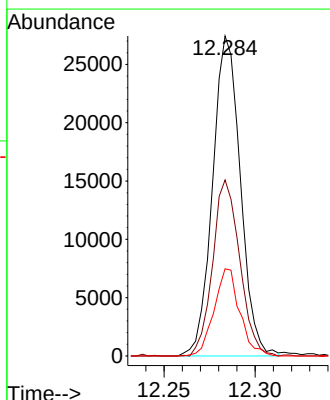
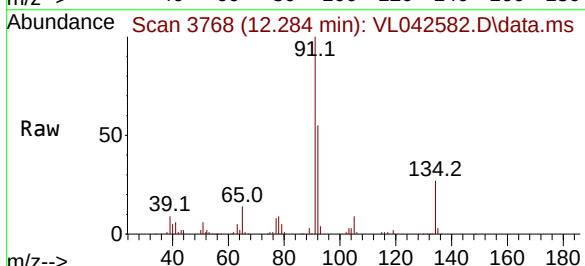
Tgt Ion: 91 Resp: 29130

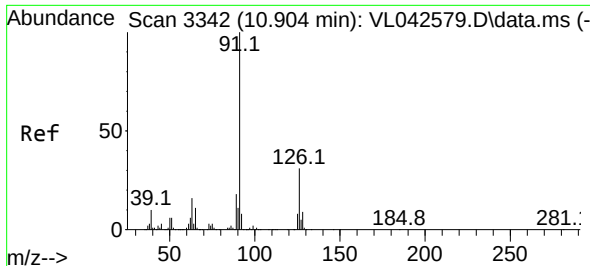
Ion Ratio Lower Upper

91 100

92 53.7 44.4 66.6

134 25.1 20.1 30.1

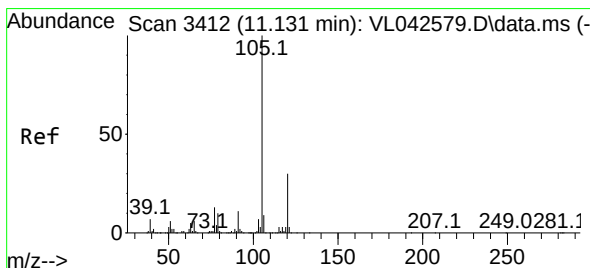
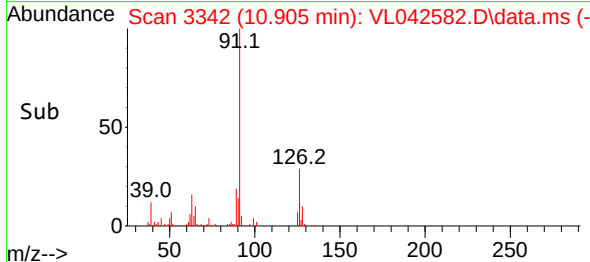
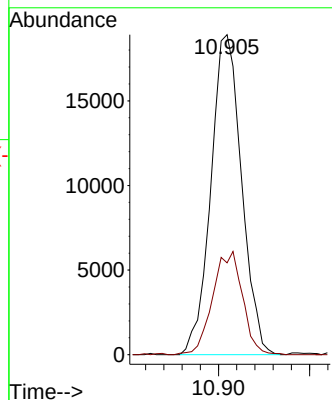
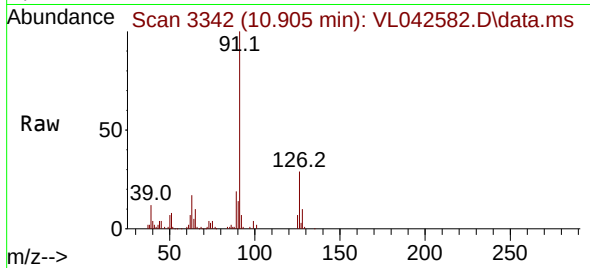




#71
2-Chlorotoluene
Concen: 0.534 ppbv
RT: 10.905 min Scan# 311
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

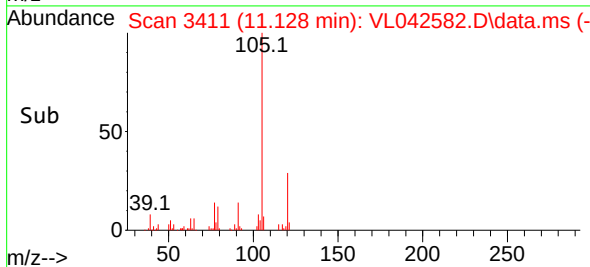
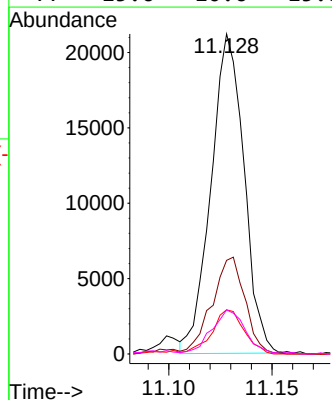
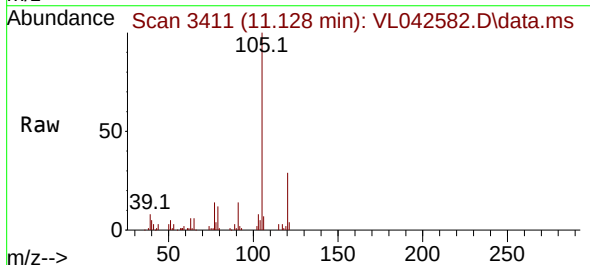
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

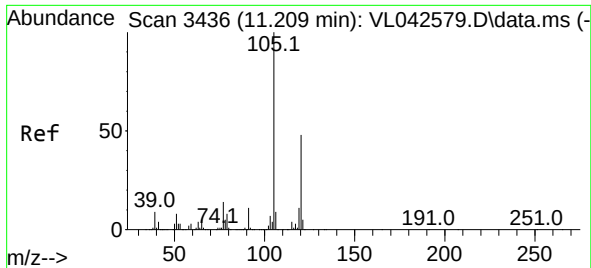
Tgt Ion: 91 Resp: 22135
Ion Ratio Lower Upper
91 100
126 31.5 12.6 50.4



#72
4-Ethyltoluene
Concen: 0.513 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion: 105 Resp: 23521
Ion Ratio Lower Upper
105 100
120 31.5 24.6 36.8
91 14.3 9.6 14.4
77 15.6 10.6 15.8

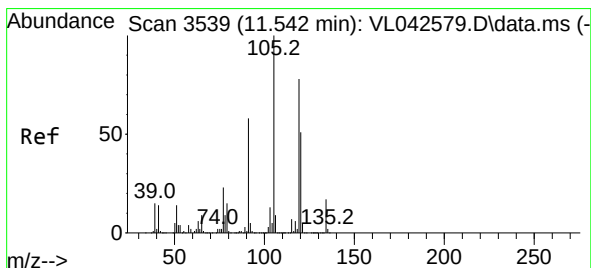
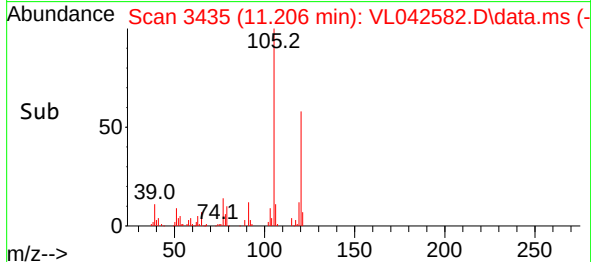
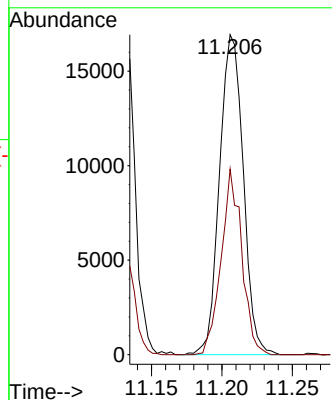
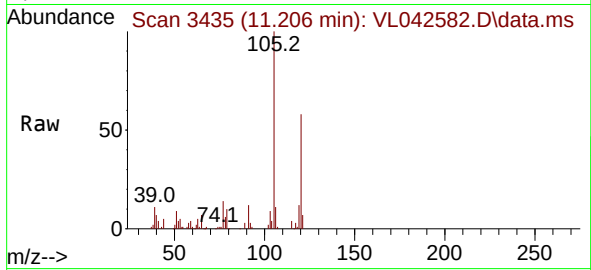




#73
1,3,5-Trimethylbenzene
Concen: 0.524 ppbv
RT: 11.206 min Scan# 3436
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

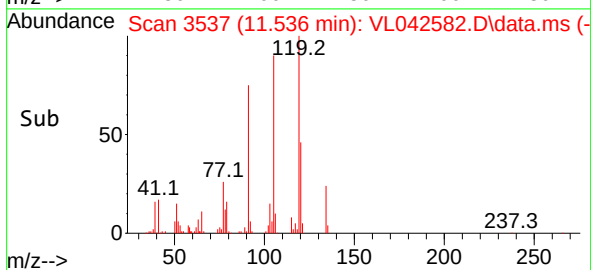
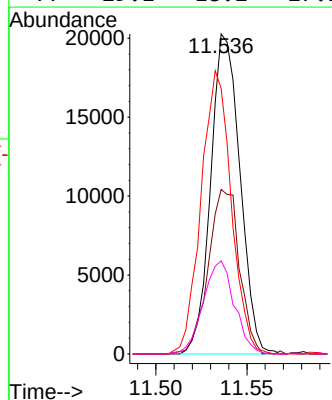
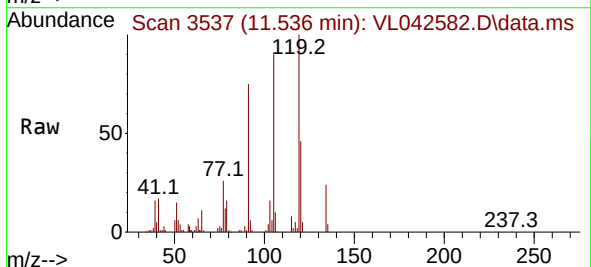
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

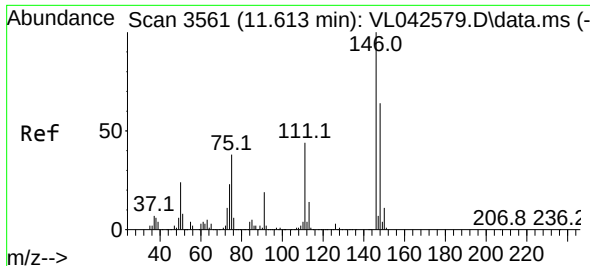
Tgt Ion:105 Resp: 19891
Ion Ratio Lower Upper
105 100
120 58.0 38.8 58.2



#74
1,2,4-Trimethylbenzene
Concen: 0.538 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.006 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion:105 Resp: 22635
Ion Ratio Lower Upper
105 100
120 50.6 40.8 61.2
91 83.0 46.8 70.2#
77 29.1 18.2 27.2#

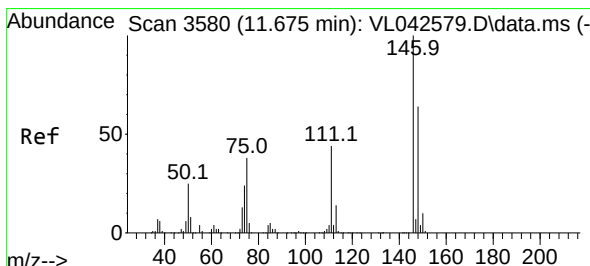
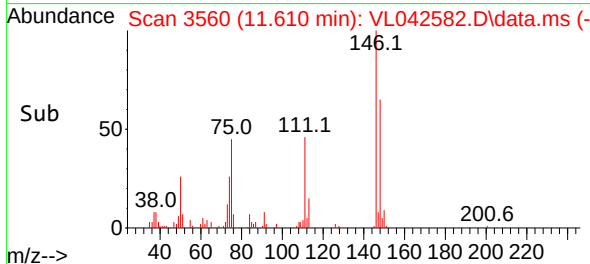
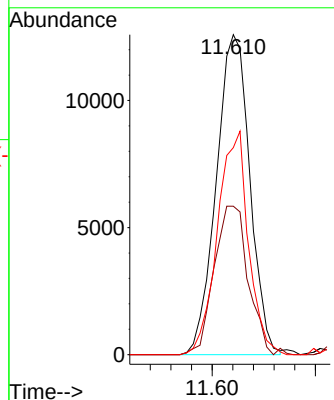
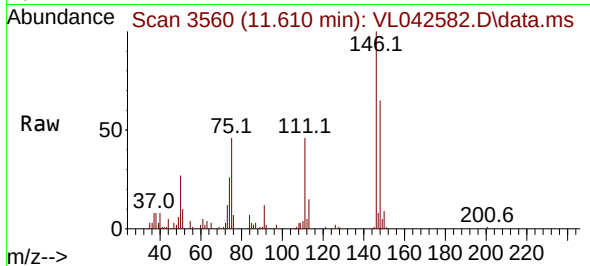




#75
1,3-Dichlorobenzene
Concen: 0.538 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

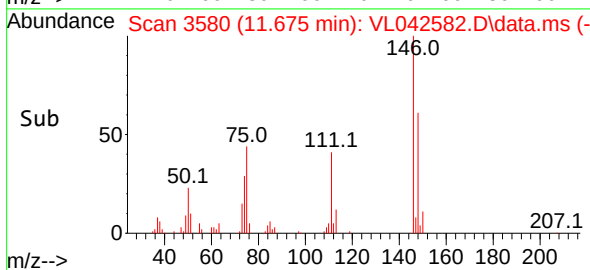
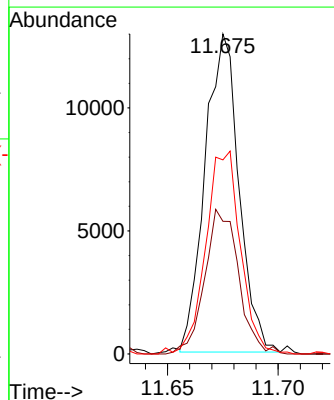
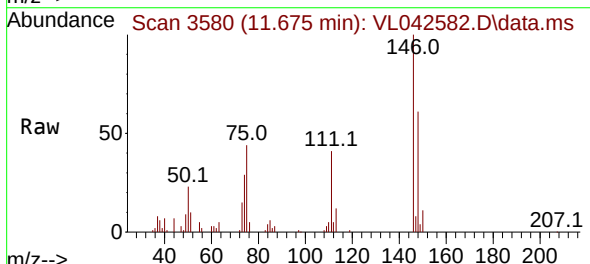
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

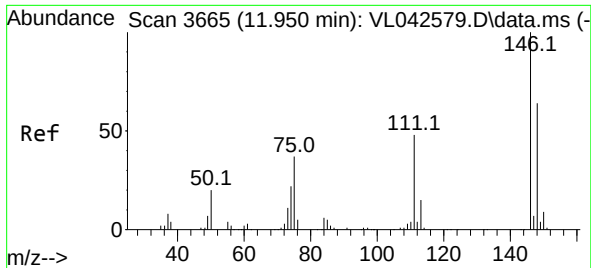
Tgt Ion:146 Resp: 14232
Ion Ratio Lower Upper
146 100
111 47.3 22.4 67.3
148 64.2 32.0 96.2



#76
1,4-Dichlorobenzene
Concen: 0.522 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion:146 Resp: 13773
Ion Ratio Lower Upper
146 100
111 45.3 21.6 64.8
148 65.5 32.1 96.5

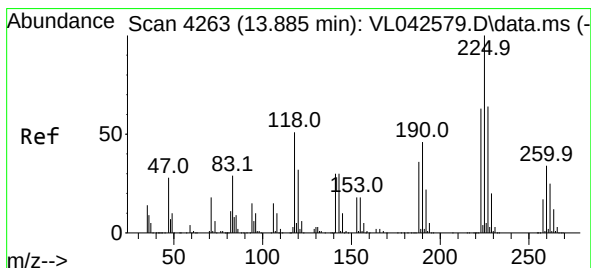
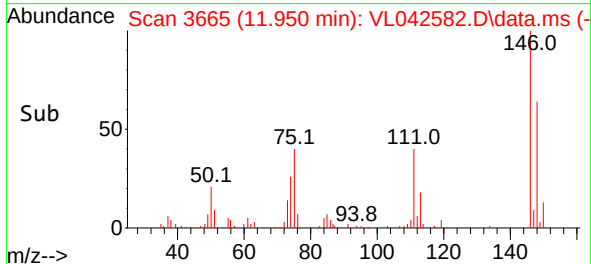
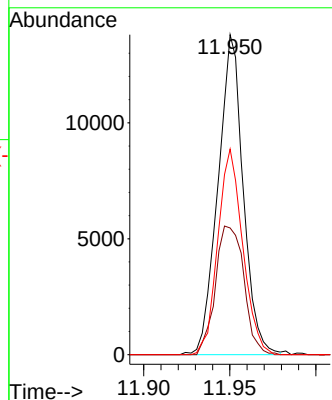
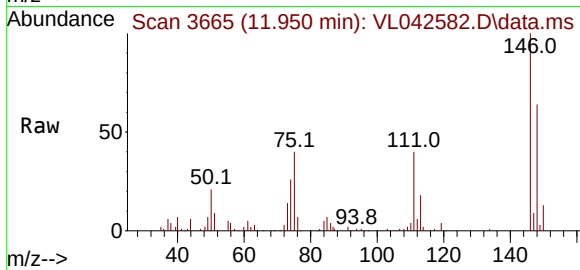




#77
1,2-Dichlorobenzene
Concen: 0.548 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.000 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

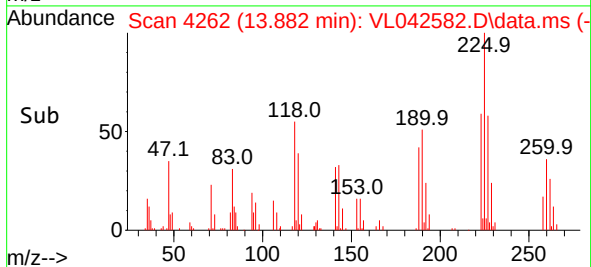
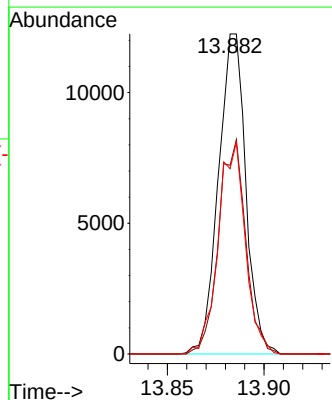
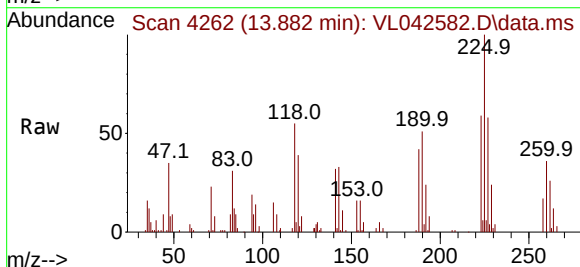
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

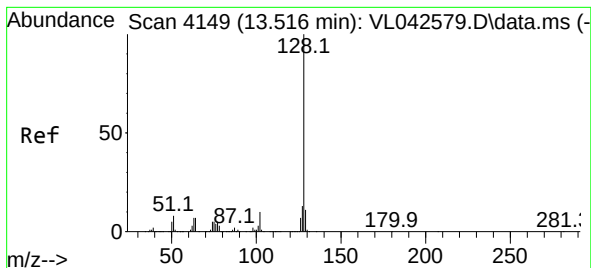
Tgt Ion:146 Resp: 14062
Ion Ratio Lower Upper
146 100
111 45.2 23.1 69.3
148 63.5 32.1 96.3



#78
Hexachloro-1,3-Butadiene
Concen: 0.567 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.003 min
Lab File: VL042582.D
Acq: 29 May 2025 12:47

Tgt Ion:225 Resp: 12036
Ion Ratio Lower Upper
225 100
223 66.2 50.2 75.4
227 65.3 51.1 76.7





#79

Naphthalene

Concen: 0.477 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

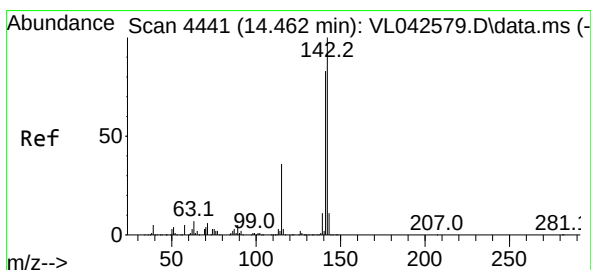
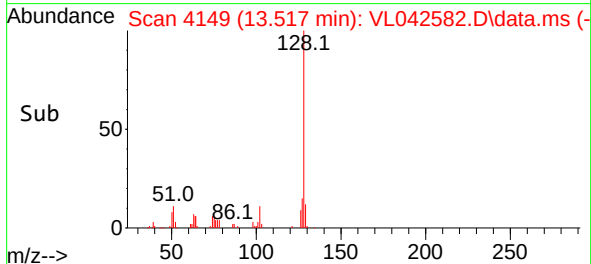
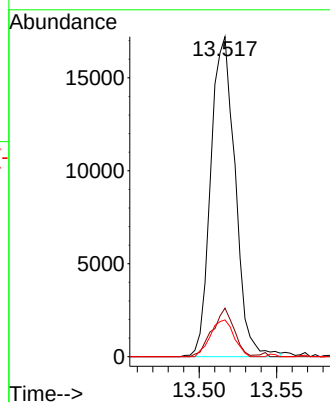
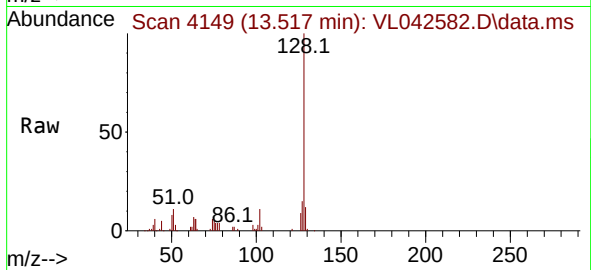
Tgt Ion:128 Resp: 18853

Ion Ratio Lower Upper

128 100

127 15.1 10.2 15.4

129 11.5 8.8 13.2



#80

Naphthalene,2-methyl-

Concen: 0.342 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.000 min

Lab File: VL042582.D

Acq: 29 May 2025 12:47

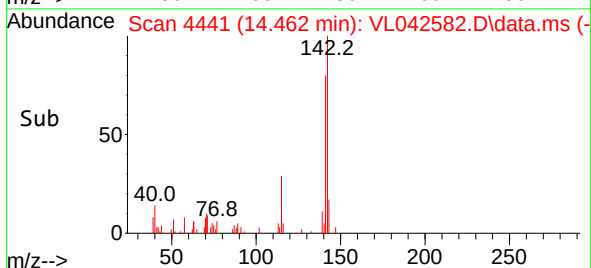
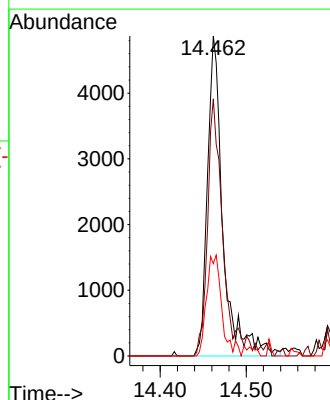
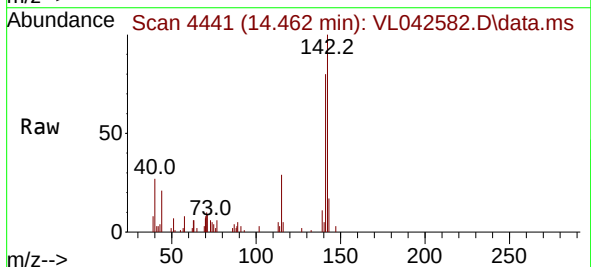
Tgt Ion:142 Resp: 6126

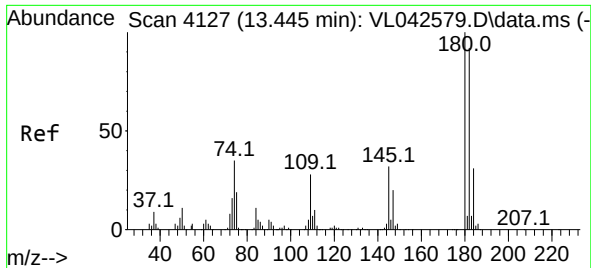
Ion Ratio Lower Upper

142 100

141 81.6 66.2 99.4

115 33.8 28.3 42.5





#81

1,2,4-Trichlorobenzene

Concen: 0.446 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042582.D

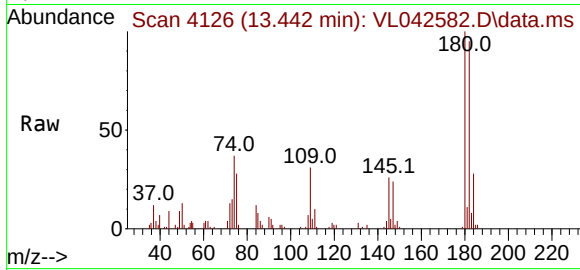
Acq: 29 May 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5



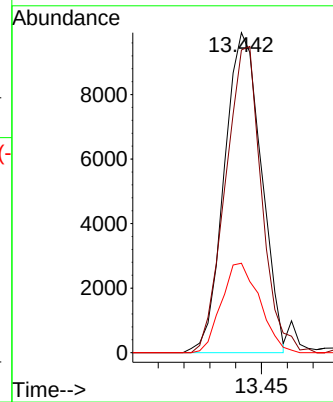
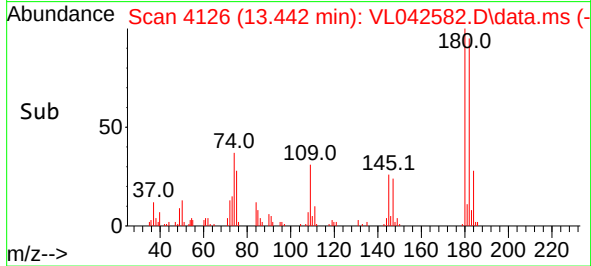
Tgt Ion:180 Resp: 9879

Ion Ratio Lower Upper

180 100

182 93.7 75.0 112.4

184 28.9 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042583.D
 Acq On : 29 May 2025 13:19
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: May 30 01:35:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103370	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	302218	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	273881	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	205672	10.018	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	1430	0.113	ppbv #	84
3) Chlorodifluoromethane	1.476	51	1965	0.112	ppbv	95
4) Chloromethane	1.534	50	610	0.121	ppbv #	30
5) Vinyl Chloride	1.580	62	481	0.094	ppbv #	31
6) Bromomethane	1.667	94	300	0.120	ppbv #	61
7) Chloroethane	1.706	64	97	0.049	ppbv #	67
8) Dichlorotetrafluoroethane	1.554	85	1231	0.116	ppbv	96
9) Propene	1.127	41	81	0.011	ppbv	86
10) Heptane	4.978	43	458	0.023	ppbv #	28
11) Trichlorofluoromethane	1.878	101	1340	0.113	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.140	101	968	0.104	ppbv #	74
13) Ethanol	1.722	45	110	0.140	ppbv	71
14) Bromoethene	1.784	108	334	0.096	ppbv #	63
15) Acetone	1.839	43	2272	0.182	ppbv #	86
16) 1,3-Butadiene	1.609	39	739	0.125	ppbv	98
17) tert-Butyl alcohol	2.049	59	1477	0.114	ppbv #	50
18) 1,1-Dichloroethene	2.036	96	501	0.116	ppbv	89
19) Isopropyl Alcohol	1.890	45	1079	0.145	ppbv #	38
20) Methylene Chloride	2.062	84	1160	0.282	ppbv #	92
21) Allyl Chloride	2.094	41	1240	0.141	ppbv #	60
22) trans-1,2-Dichloroethene	2.036	96	501	0.104	ppbv	92
23) Vinyl Acetate	2.467	43	2108	0.125	ppbv #	72
24) 1,1-Dichloroethane	2.412	63	1231	0.124	ppbv #	86
25) Ethyl Acetate	2.849	43	2623	0.077	ppbv #	77
26) Hexane	2.829	57	1816	0.117	ppbv #	8
27) Carbon Disulfide	2.153	76	641	0.054	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	614	0.098	ppbv #	50
29) Chloroform	2.849	83	2298	0.114	ppbv #	72
30) Cyclohexane	3.865	84	743	0.058	ppbv #	1
31) cis-1,2-Dichloroethene	2.722	61	1499	0.106	ppbv #	78
32) 1,1,1-Trichloroethane	3.373	97	2153	0.107	ppbv	90
34) 2-Butanone	2.567	43	3113	0.144	ppbv #	87
35) Carbon Tetrachloride	3.768	117	2135	0.107	ppbv #	76
36) Benzene	3.661	78	3109	0.104	ppbv #	89
37) 1,2-Dichloroethane	3.221	62	1731	0.117	ppbv	99
38) Trichloroethene	4.548	130	963	0.076	ppbv #	62
39) 1,2-Dichloropropane	3.962	63	73521	6.683	ppbv #	22
40) 1,4-Dioxane	4.612	88	74	0.016	ppbv #	1
41) Tetrahydrofuran	3.072	42	1452	0.115	ppbv	94
42) Bromodichloromethane	4.496	83	1835	0.087	ppbv #	87
43) Methyl Methacrylate	4.891	69	685	0.059	ppbv #	1
44) 2,2,4-Trimethylpentane	4.651	57	3117	0.061	ppbv #	24
45) t-1,3-Dichloropropene	6.419	75	397	0.030	ppbv	95

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 Data File : VL042583.D
 Acq On : 29 May 2025 13:19
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: May 30 01:35:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

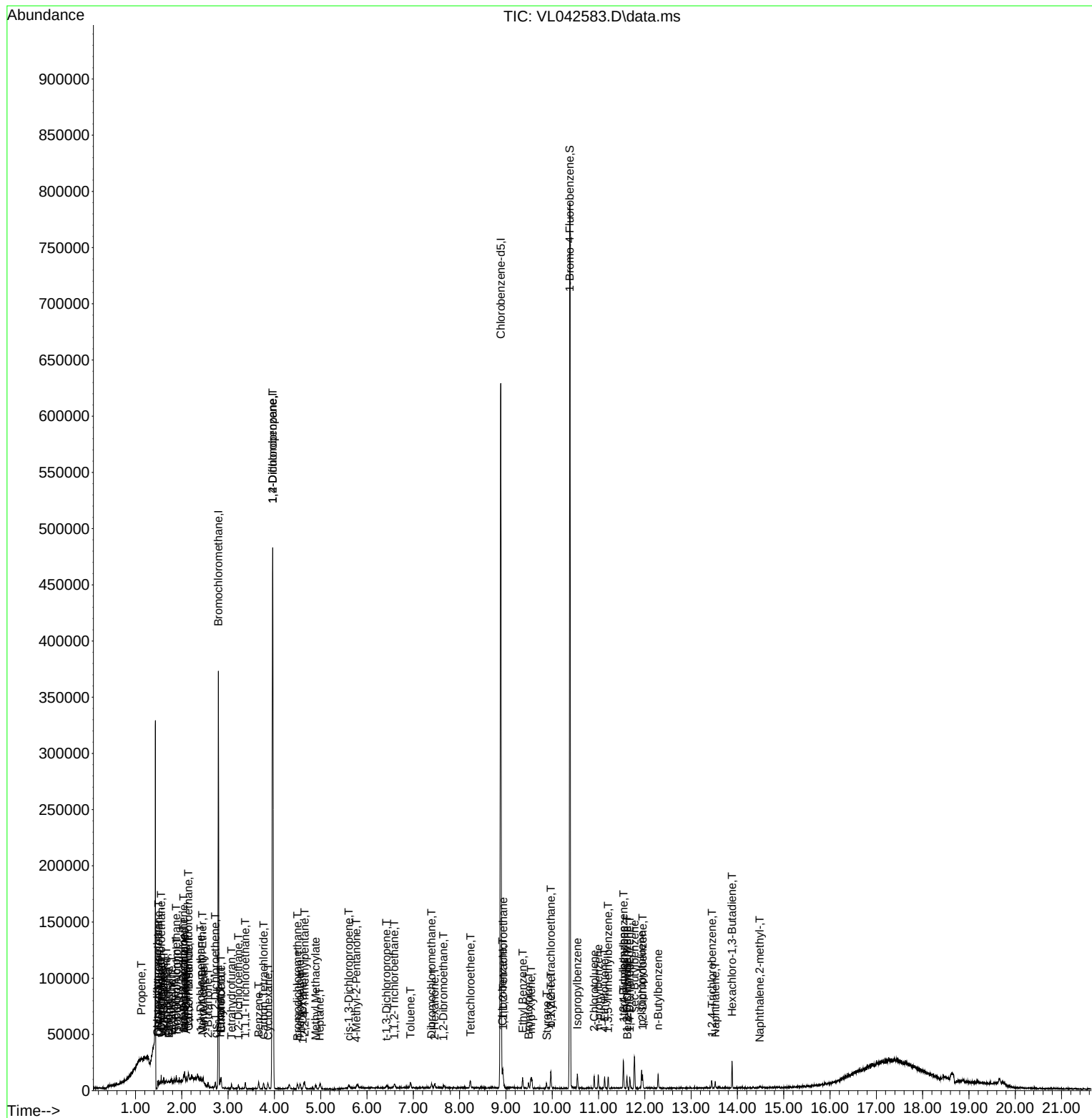
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	5.606	75	449	0.027	ppbv	#	57
47) 1,1,2-Trichloroethane	6.590	97	786	0.069	ppbv	#	61
48) Dibromochloromethane	7.393	129	1718	0.094	ppbv		87
49) Bromoform	9.490	173	1444	0.092	ppbv		91
50) 4-Methyl-2-Pentanone	5.768	43	563	0.019	ppbv	#	33
51) 2-Hexanone	7.457	43	1172	0.049	ppbv	#	28
52) Tetrachloroethene	8.238	164	1060	0.095	ppbv	#	73
53) Toluene	6.940	91	1577	0.046	ppbv	#	1
54) 1,2-Dibromoethane	7.648	107	492	0.029	ppbv		89
56) 1,1,1,2-Tetrachloroethane	8.940	131	527	0.038	ppbv	#	9
57) Chlorobenzene	8.924	112	1397	0.053	ppbv	#	71
58) Ethyl Benzene	9.361	91	3383	0.073	ppbv		96
59) m/p-Xylene	9.542	91	3685	0.101	ppbv	#	29
60) o-Xylene	9.972	91	3081	0.084	ppbv		76
61) Styrene	9.882	104	1504	0.087	ppbv		88
62) Isopropylbenzene	10.542	105	5949	0.110	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.969	83	2267	0.098	ppbv		96
64) n-propylbenzene	10.992	120	1232	0.085	ppbv	#	63
65) tert-Butylbenzene	11.536	119	5169	0.106	ppbv		96
66) Benzyl Chloride	11.623	91	234	0.037	ppbv	#	66
67) sec-Butylbenzene	11.775	105	3973	0.058	ppbv	#	59
69) p-Isopropyltoluene	11.934	119	5605	0.097	ppbv		95
70) n-Butylbenzene	12.287	91	4829	0.085	ppbv		97
71) 2-Chlorotoluene	10.908	91	4065	0.099	ppbv		96
72) 4-Ethyltoluene	11.131	105	3986	0.088	ppbv	#	95
73) 1,3,5-Trimethylbenzene	11.206	105	3615	0.096	ppbv	#	83
74) 1,2,4-Trimethylbenzene	11.542	105	4287	0.103	ppbv	#	82
75) 1,3-Dichlorobenzene	11.613	146	2648	0.101	ppbv		91
76) 1,4-Dichlorobenzene	11.675	146	2574	0.098	ppbv		94
77) 1,2-Dichlorobenzene	11.953	146	2775	0.109	ppbv		97
78) Hexachloro-1,3-Butadiene	13.882	225	2440	0.116	ppbv		91
79) Naphthalene	13.523	128	2887	0.074	ppbv		98
80) Naphthalene,2-methyl-	14.481	142	688	0.039	ppbv	#	82
81) 1,2,4-Trichlorobenzene	13.448	180	1109	0.050	ppbv	#	70

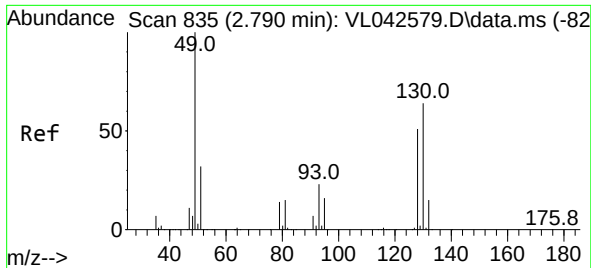
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 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: May 30 01:35:41 2025
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 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

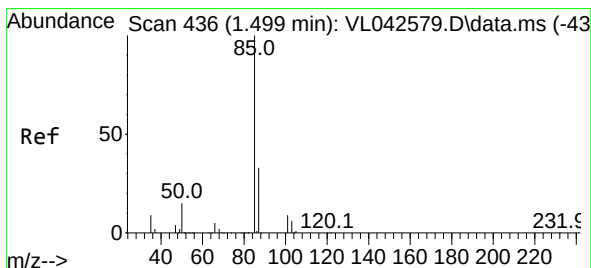
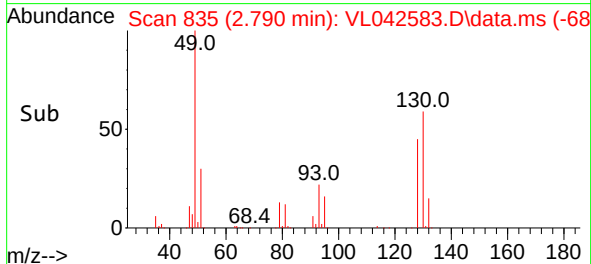
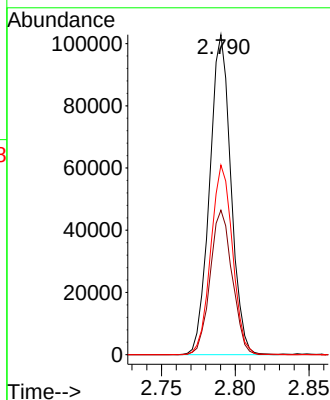
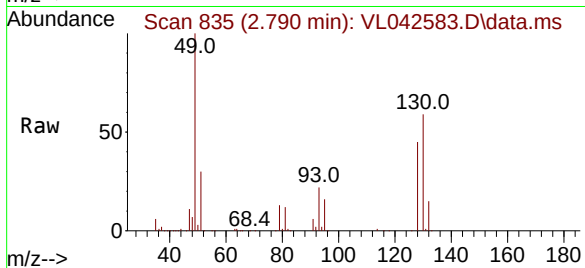




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

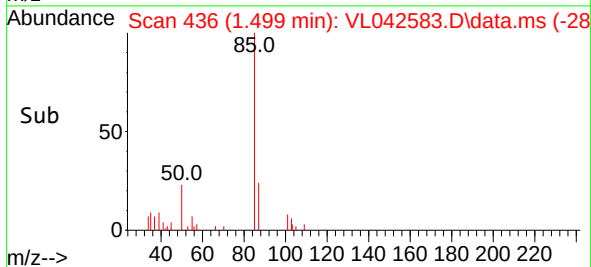
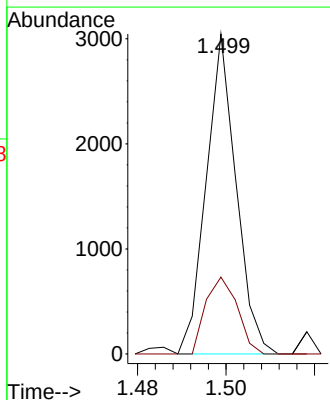
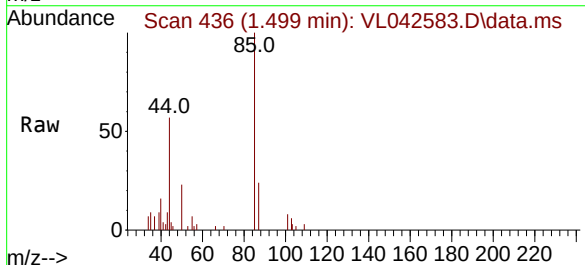
Instrument :
MSVOA_L
ClientSampleId :
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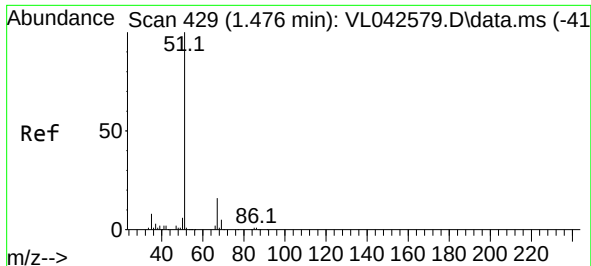
Tgt Ion: 49 Resp: 103370
Ion Ratio Lower Upper
49 100
128 46.5 24.2 72.6
130 60.4 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 0.113 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 85 Resp: 1430
Ion Ratio Lower Upper
85 100
87 24.0 26.6 39.8

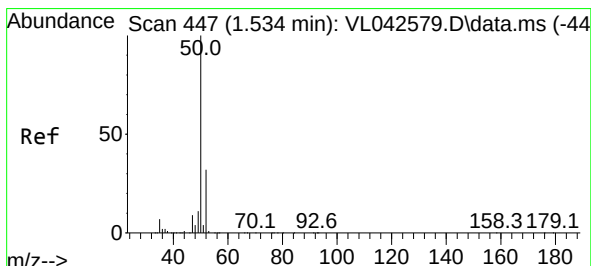
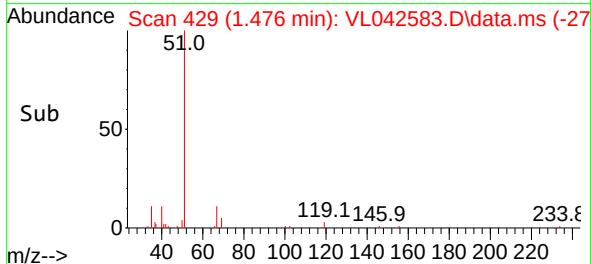
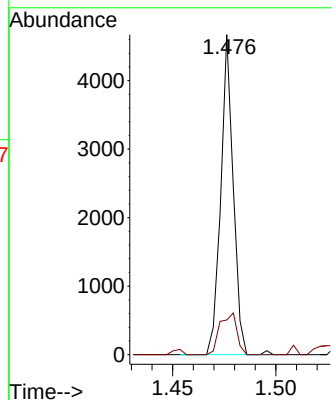
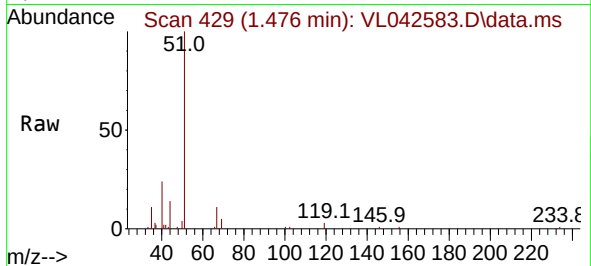




#3
Chlorodifluoromethane
Concen: 0.112 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

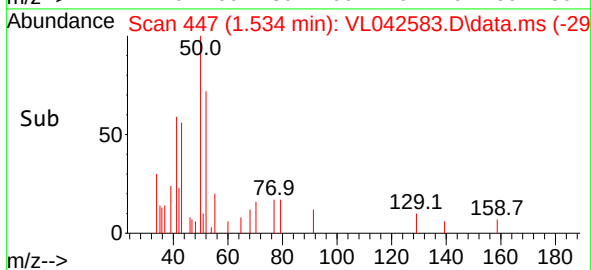
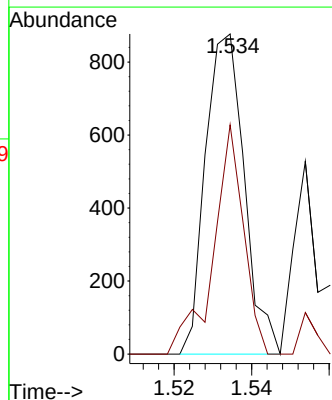
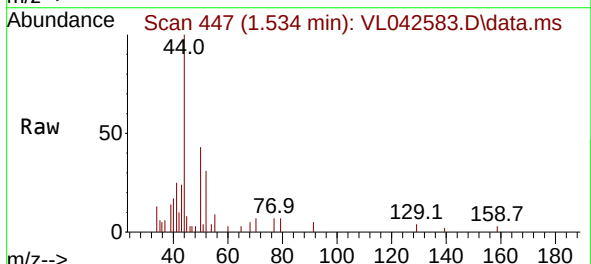
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

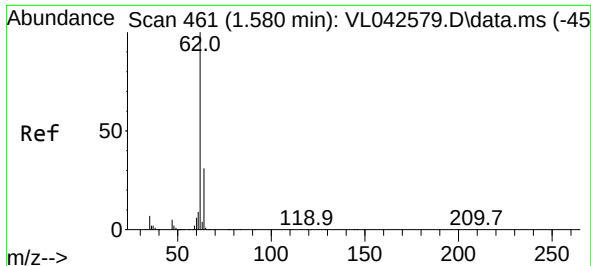
Tgt Ion: 51 Resp: 1965
Ion Ratio Lower Upper
51 100
67 19.0 13.4 20.2



#4
Chloromethane
Concen: 0.121 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 50 Resp: 610
Ion Ratio Lower Upper
50 100
52 71.6 25.8 38.6#

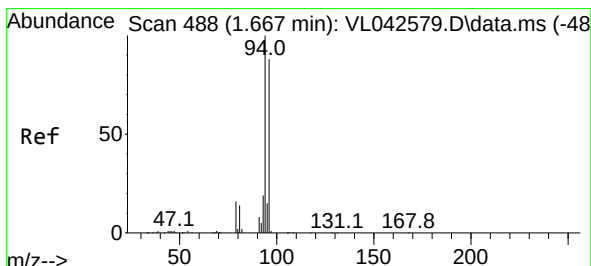
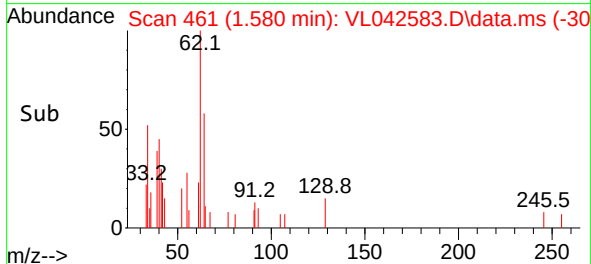
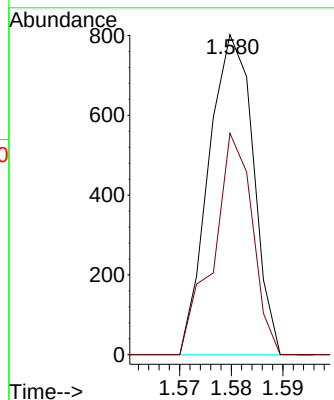
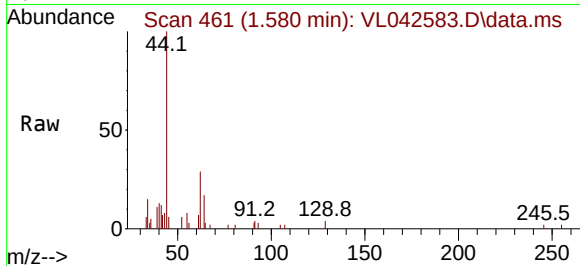




#5
 Vinyl Chloride
 Concen: 0.094 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042583.D
 Acq: 29 May 2025 13:19

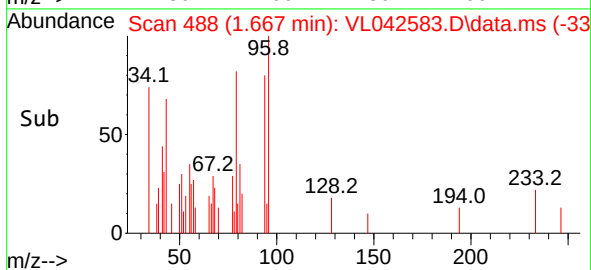
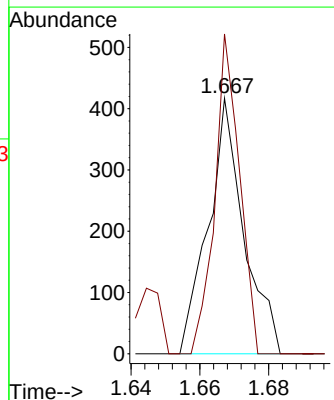
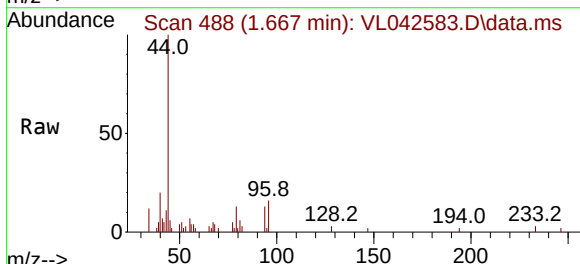
Instrument :
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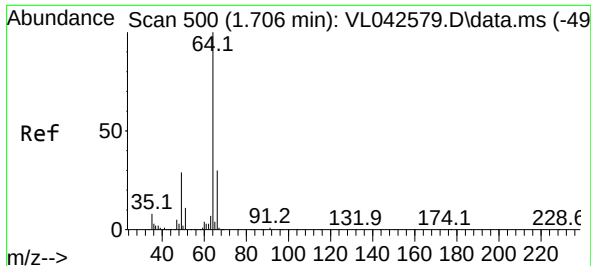
Tgt Ion: 62 Resp: 481
 Ion Ratio Lower Upper
 62 100
 64 69.2 24.9 37.3#



#6
 Bromomethane
 Concen: 0.120 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042583.D
 Acq: 29 May 2025 13:19

Tgt Ion: 94 Resp: 300
 Ion Ratio Lower Upper
 94 100
 96 125.2 70.7 106.1#

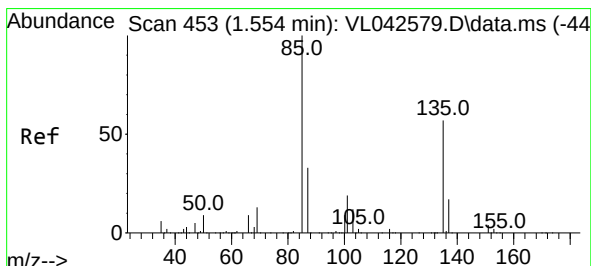
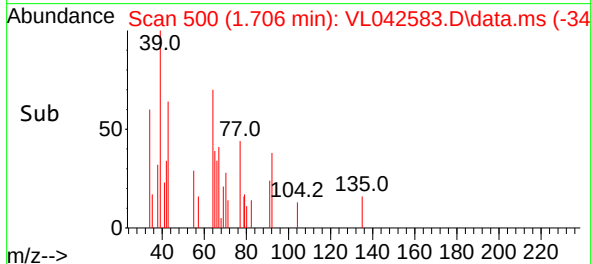
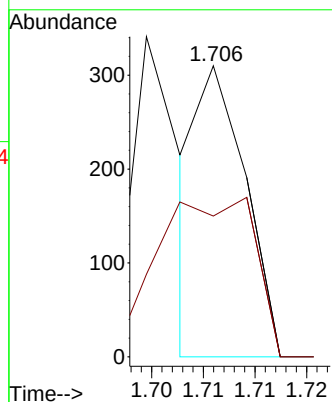
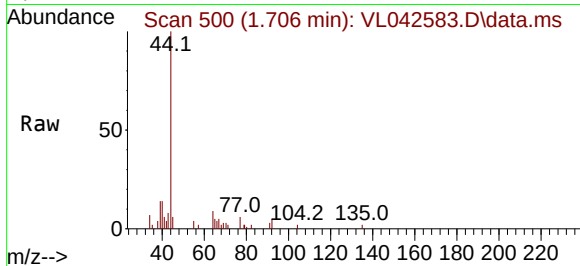




#7
Chloroethane
Concen: 0.049 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

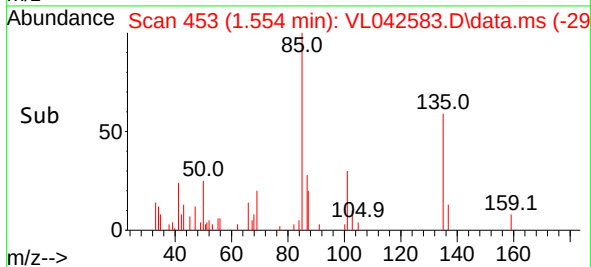
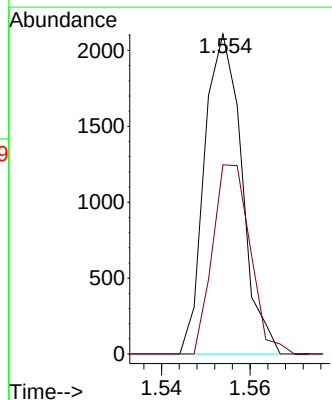
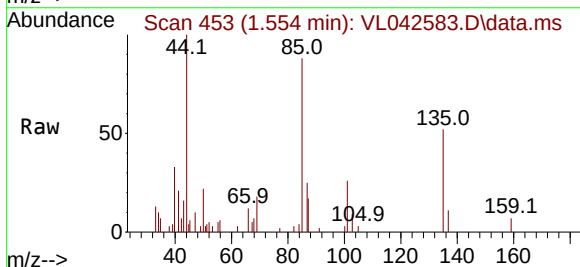
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

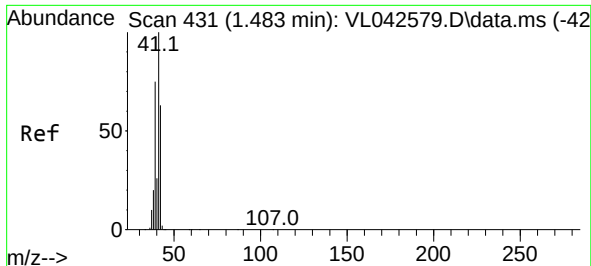
Tgt Ion: 64 Resp: 97
Ion Ratio Lower Upper
64 100
66 48.4 24.3 36.5#



#8
Dichlorotetrafluoroethane
Concen: 0.116 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 85 Resp: 1231
Ion Ratio Lower Upper
85 100
135 59.9 50.2 75.4

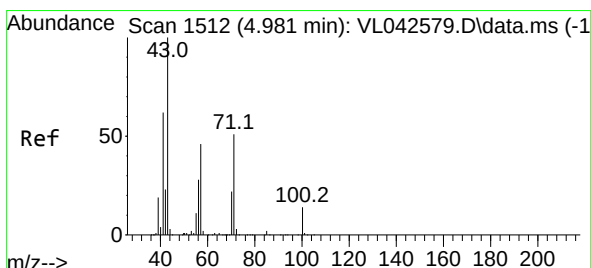
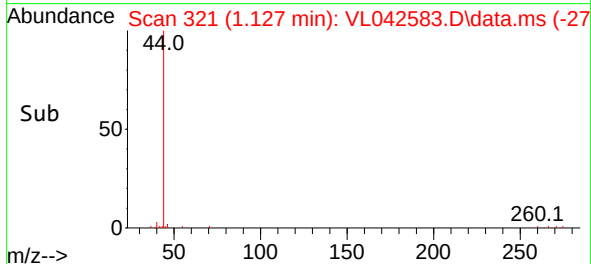
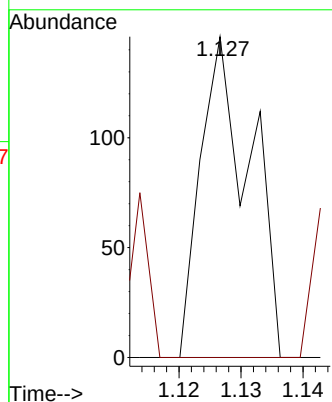
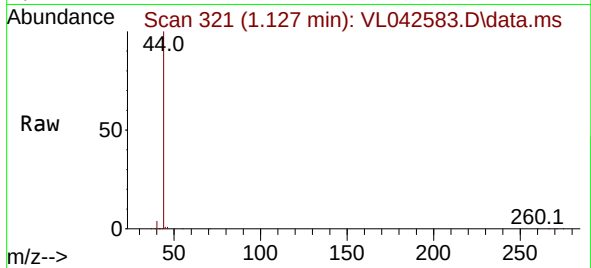




#9
Propene
Concen: 0.011 ppbv
RT: 1.127 min Scan# 31
Delta R.T. -0.356 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

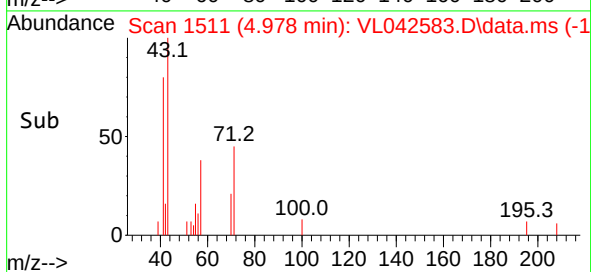
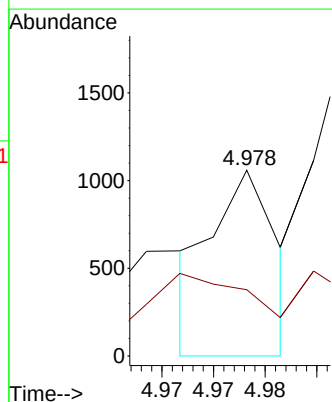
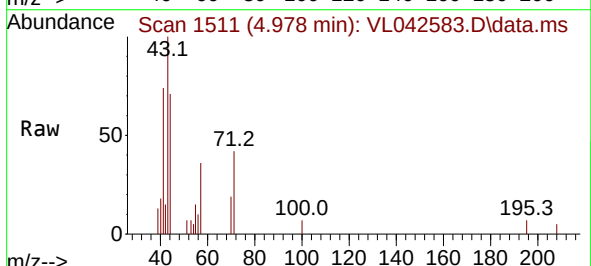
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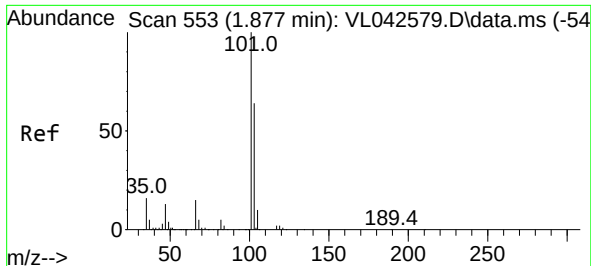
Tgt Ion: 41 Resp: 81
Ion Ratio Lower Upper
41 100
42 55.6 53.3 79.9



#10
Heptane
Concen: 0.023 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.003 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 43 Resp: 458
Ion Ratio Lower Upper
43 100
57 0.0 38.9 58.3#

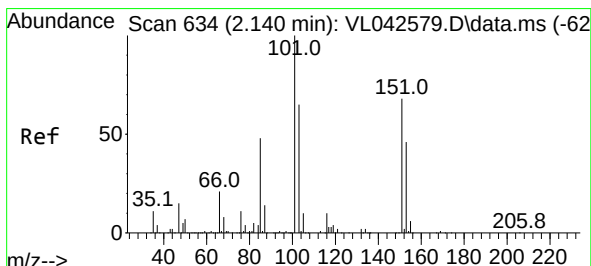
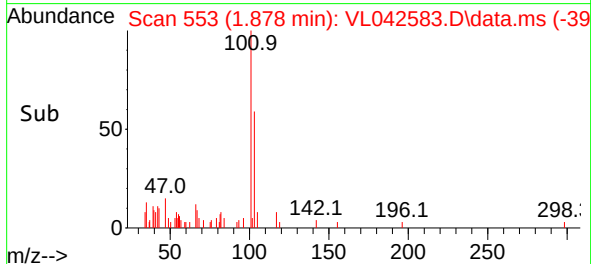
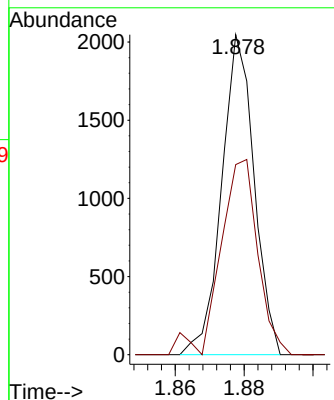
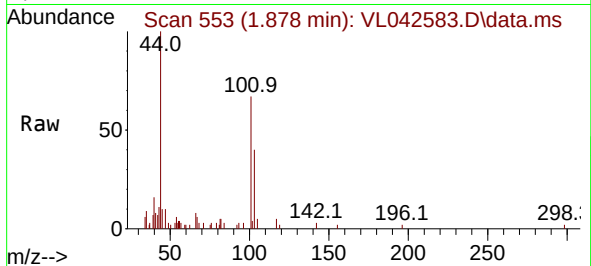




#11
 Trichlorofluoromethane
 Concen: 0.113 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042583.D
 Acq: 29 May 2025 13:19

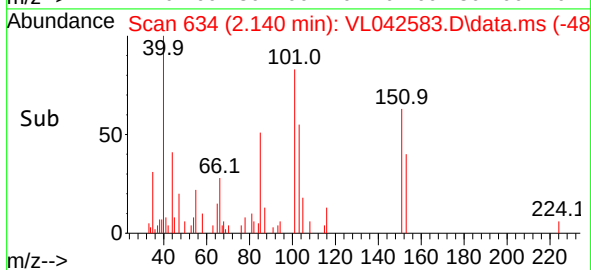
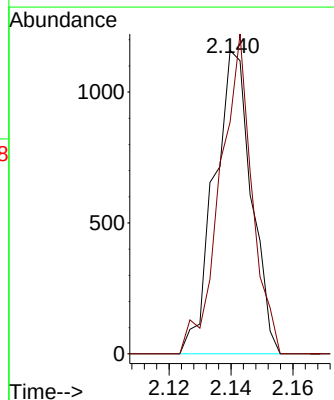
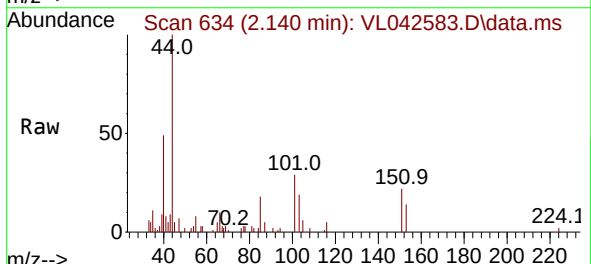
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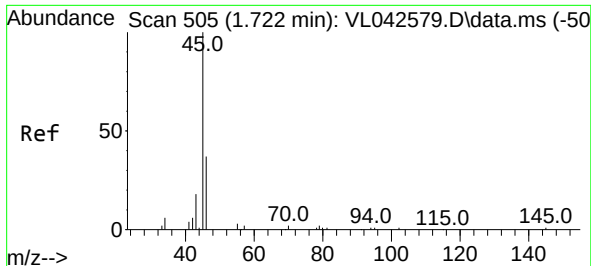
Tgt Ion:101 Resp: 1340
 Ion Ratio Lower Upper
 101 100
 103 52.7 51.5 77.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.104 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.000 min
 Lab File: VL042583.D
 Acq: 29 May 2025 13:19

Tgt Ion:101 Resp: 968
 Ion Ratio Lower Upper
 101 100
 151 90.6 55.3 82.9#

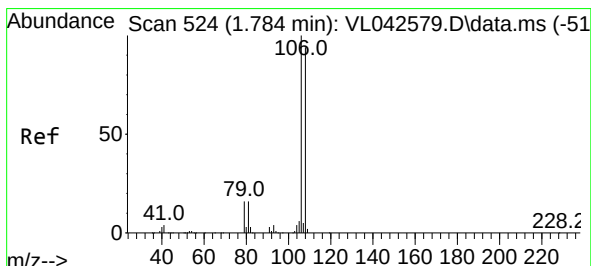
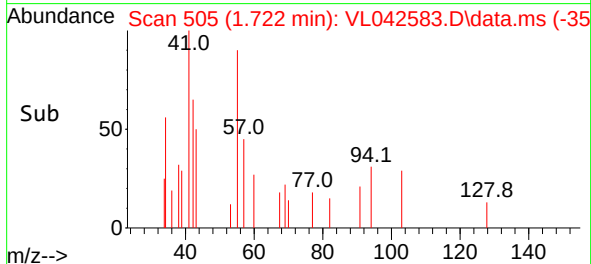
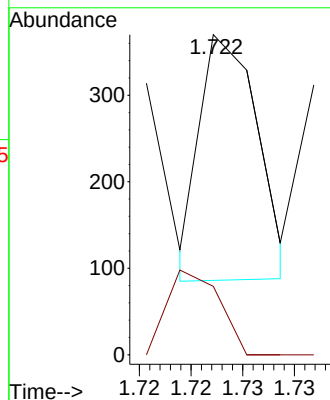
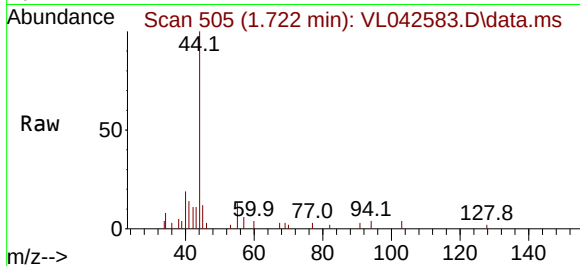




#13
 Ethanol
 Concen: 0.140 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. 0.000 min
 Lab File: VL042583.D
 Acq: 29 May 2025 13:19

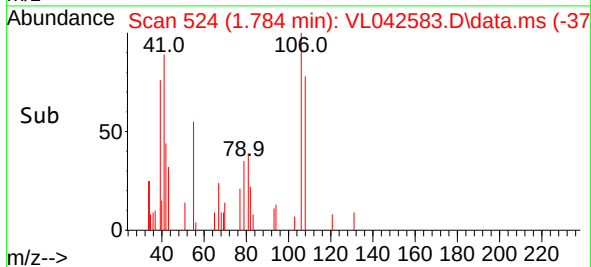
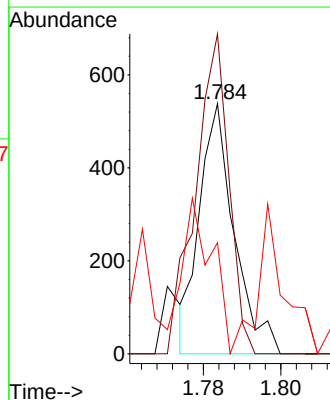
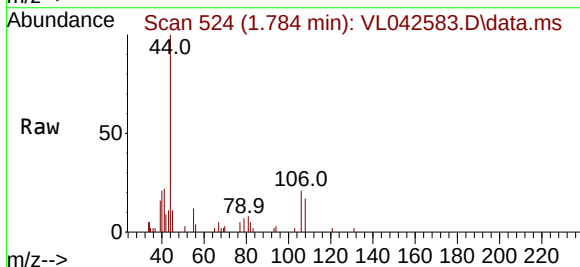
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

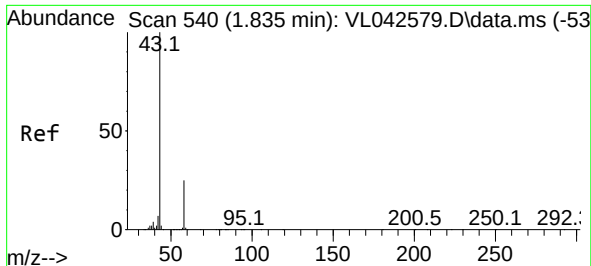
Tgt Ion: 45 Resp: 110
 Ion Ratio Lower Upper
 45 100
 46 53.6 14.5 58.1



#14
 Bromoethene
 Concen: 0.096 ppbv
 RT: 1.784 min Scan# 524
 Delta R.T. 0.000 min
 Lab File: VL042583.D
 Acq: 29 May 2025 13:19

Tgt Ion: 108 Resp: 334
 Ion Ratio Lower Upper
 108 100
 106 123.1 87.9 131.9
 79 98.2 15.6 23.4

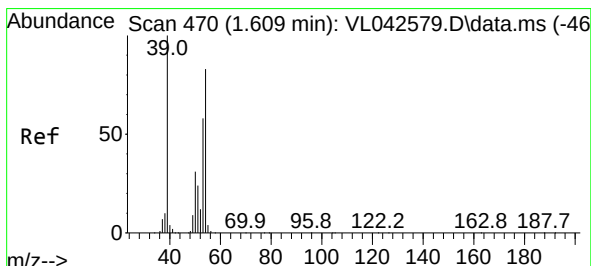
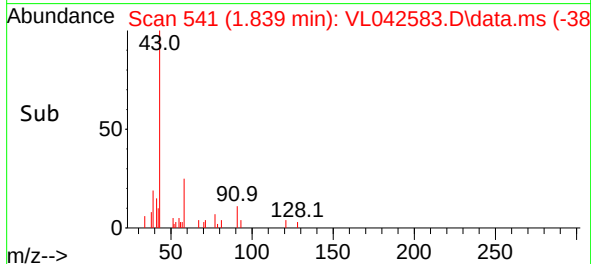
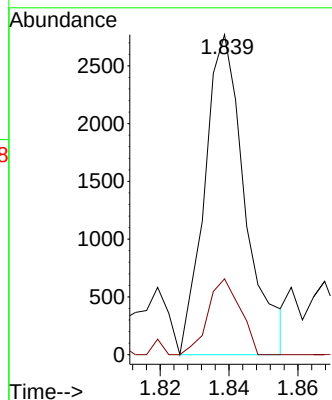
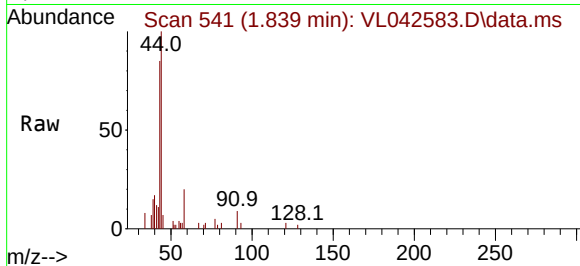




#15
Acetone
Concen: 0.182 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

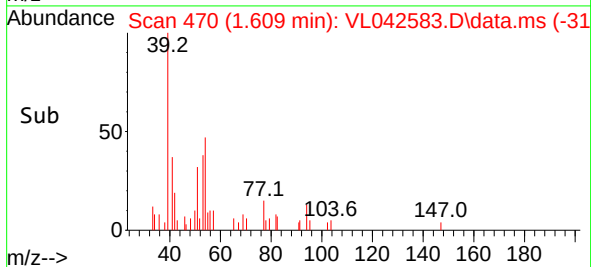
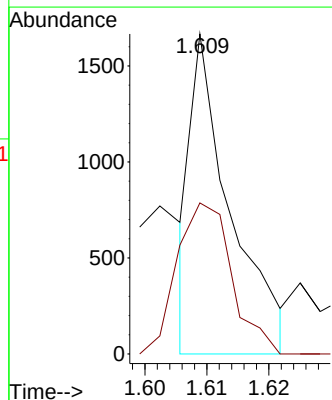
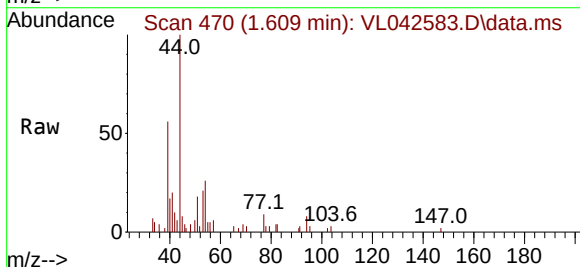
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

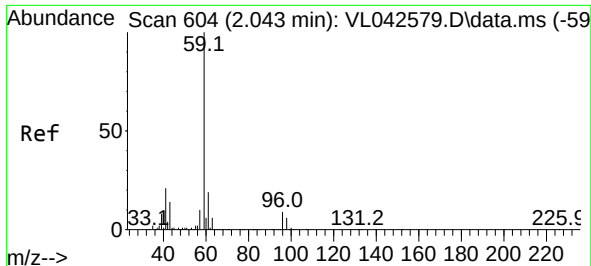
Tgt Ion: 43 Resp: 2272
Ion Ratio Lower Upper
43 100
58 18.9 21.0 31.4#



#16
1,3-Butadiene
Concen: 0.125 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 39 Resp: 739
Ion Ratio Lower Upper
39 100
54 70.4 57.9 86.9

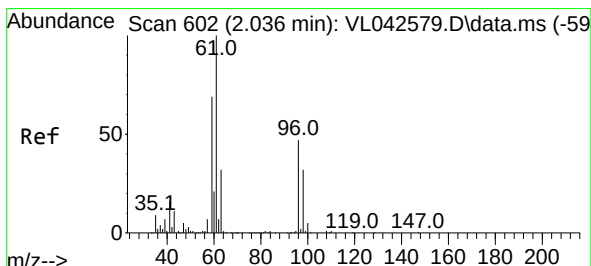
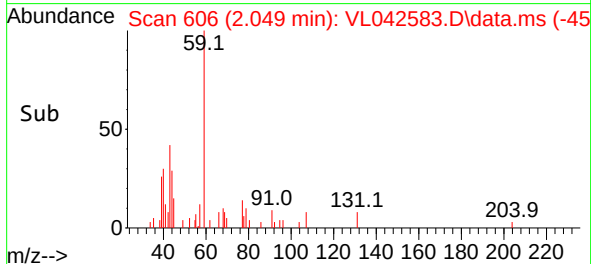
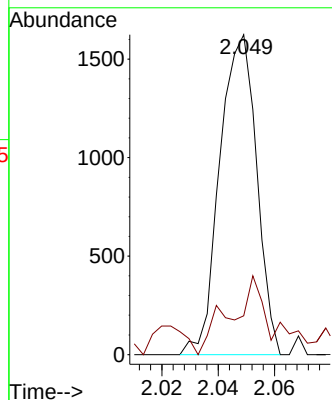
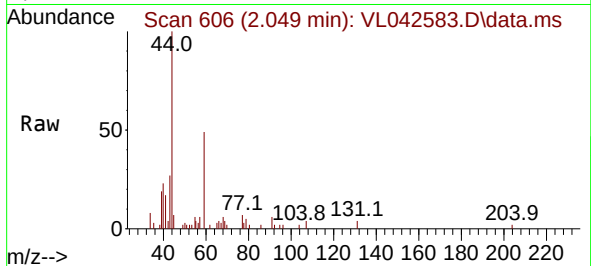




#17
tert-Butyl alcohol
Concen: 0.114 ppbv
RT: 2.049 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

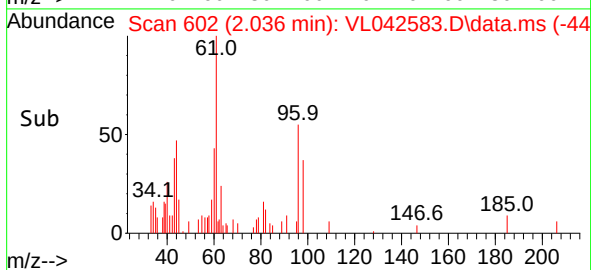
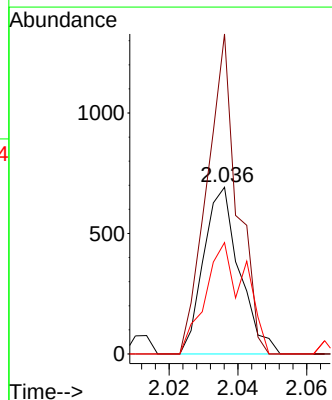
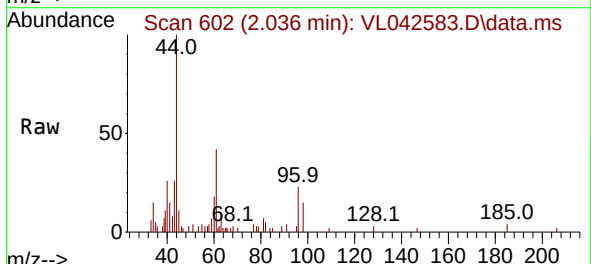
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

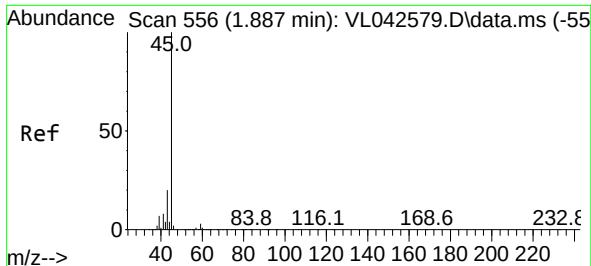
Tgt Ion: 59 Resp: 1477
Ion Ratio Lower Upper
59 100
57 29.5 8.6 12.8#



#18
1,1-Dichloroethene
Concen: 0.116 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 96 Resp: 501
Ion Ratio Lower Upper
96 100
61 191.9 171.1 256.7
98 66.8 54.4 81.6

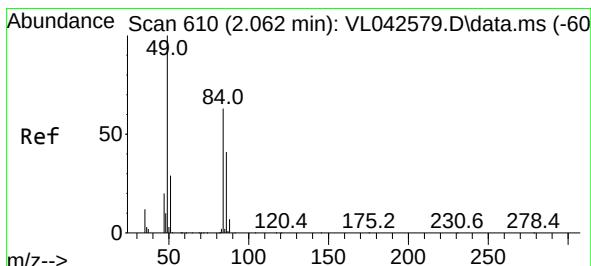
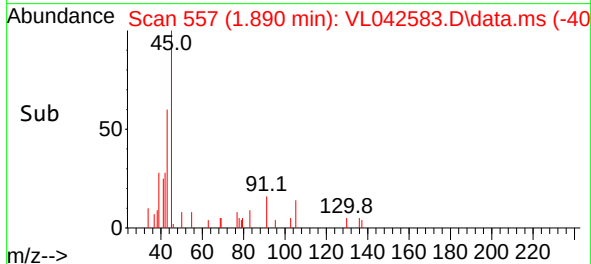
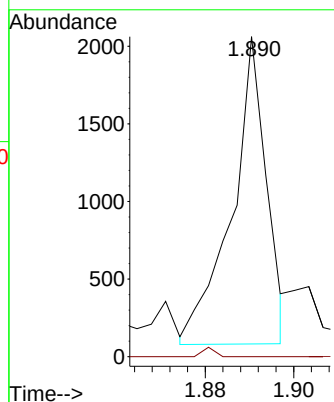
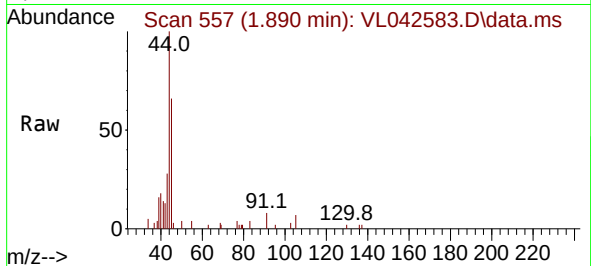




#19
Isopropyl Alcohol
Concen: 0.145 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

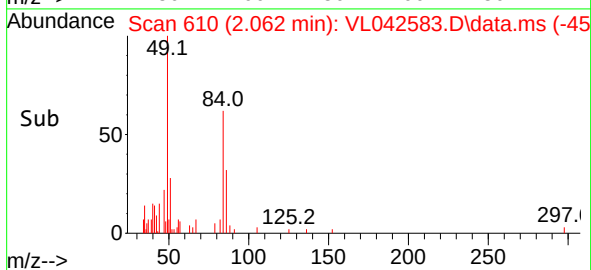
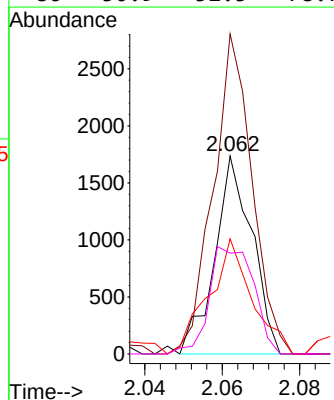
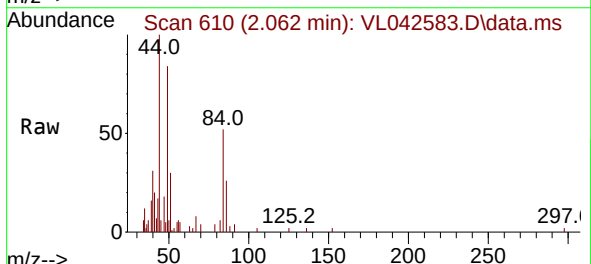
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

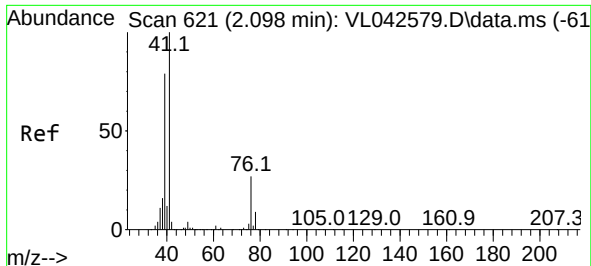
Tgt Ion: 45 Resp: 1079
Ion Ratio Lower Upper
45 100
58 0.0 29.4 44.2#



#20
Methylene Chloride
Concen: 0.282 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 84 Resp: 1160
Ion Ratio Lower Upper
84 100
49 157.5 128.8 193.2
51 54.7 38.6 57.8
86 50.9 52.5 78.7#

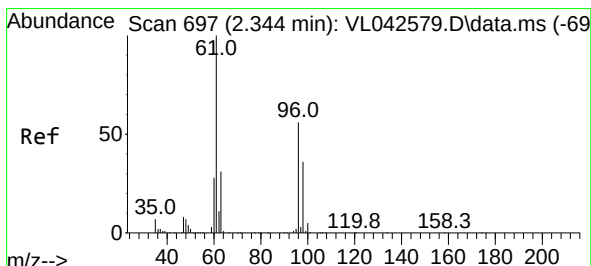
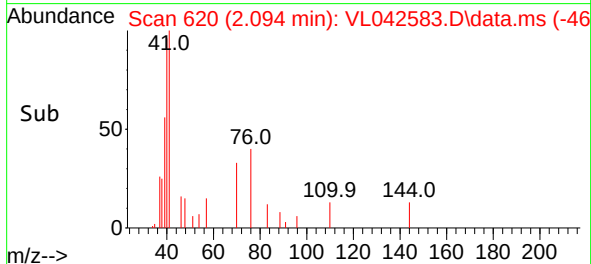
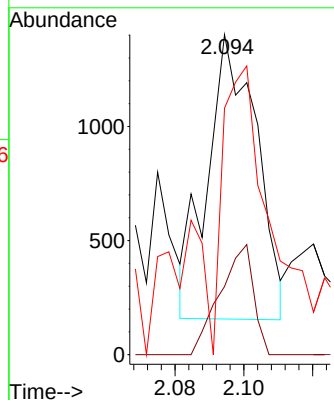
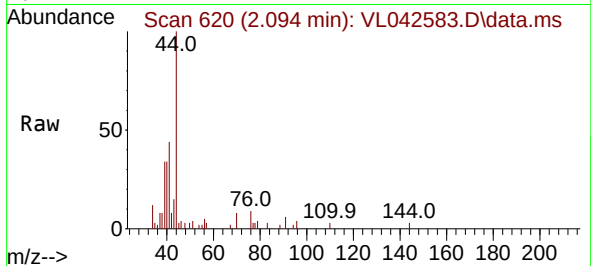




#21
 Allyl Chloride
 Concen: 0.141 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL042583.D
 Acq: 29 May 2025 13:19

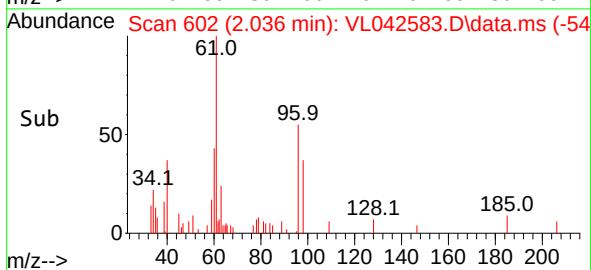
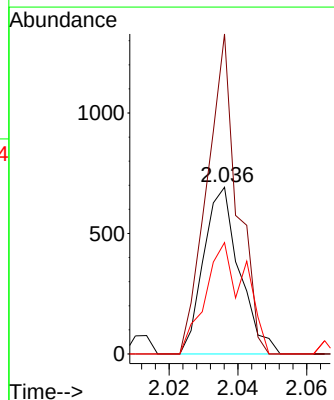
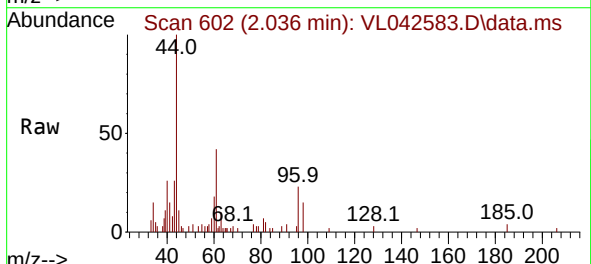
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

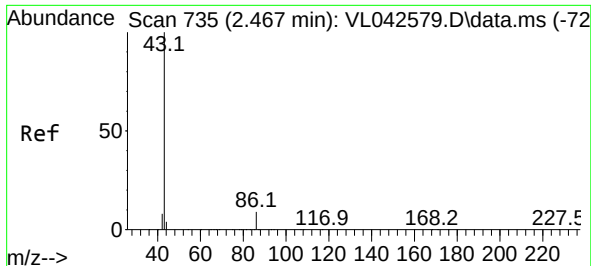
Tgt Ion: 41 Resp: 1240
 Ion Ratio Lower Upper
 41 100
 76 26.3 21.2 31.8
 39 122.2 60.9 91.3#



#22
 trans-1,2-Dichloroethene
 Concen: 0.104 ppbv
 RT: 2.036 min Scan# 602
 Delta R.T. -0.307 min
 Lab File: VL042583.D
 Acq: 29 May 2025 13:19

Tgt Ion: 96 Resp: 501
 Ion Ratio Lower Upper
 96 100
 61 191.9 142.6 214.0
 98 66.8 51.0 76.4

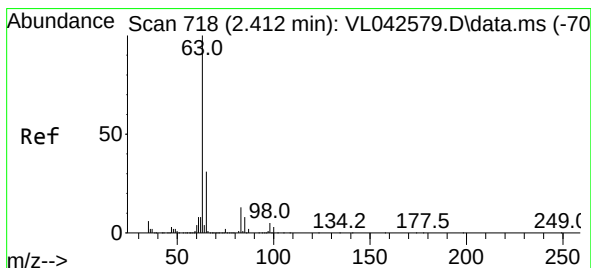
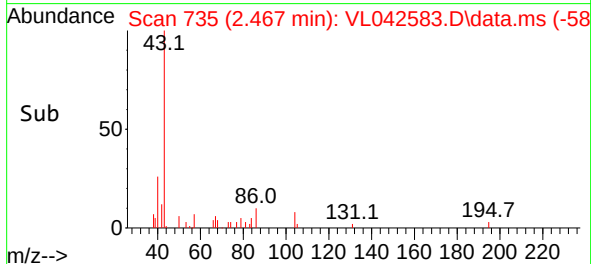
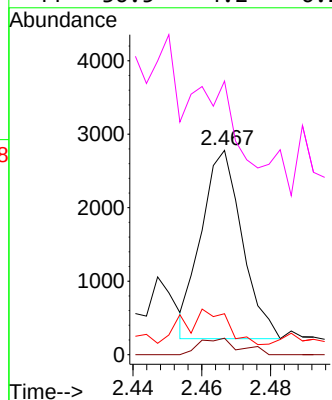
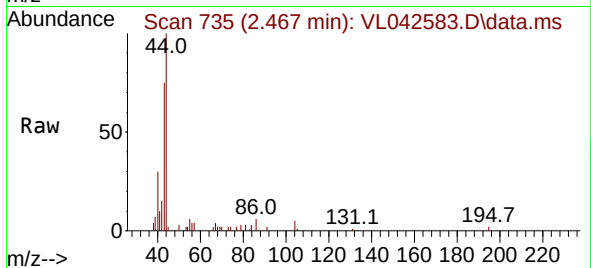




#23
 Vinyl Acetate
 Concen: 0.125 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042583.D
 Acq: 29 May 2025 13:19

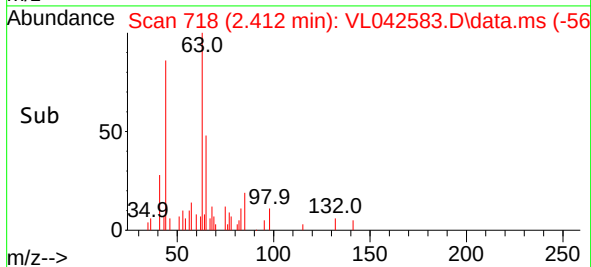
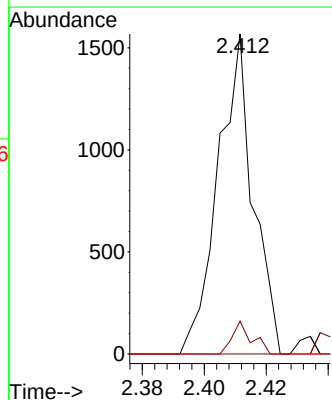
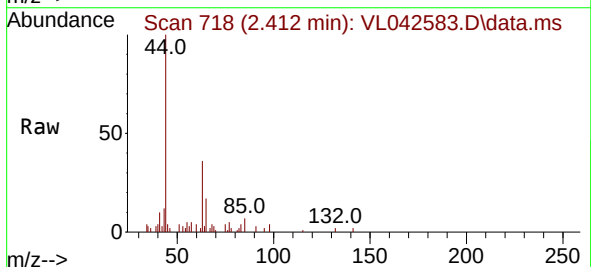
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

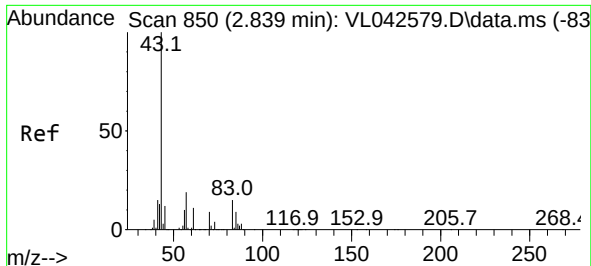
Tgt Ion:	43	Resp:	2108
Ion	Ratio	Lower	Upper
43	100		
86	8.8	6.6	9.8
42	13.7	7.0	10.4#
44	36.5	4.2	6.2#



#24
 1,1-Dichloroethane
 Concen: 0.124 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042583.D
 Acq: 29 May 2025 13:19

Tgt Ion:	63	Resp:	1231
Ion	Ratio	Lower	Upper
63	100		
98	10.3	2.4	7.1#
100	0.0	1.4	4.0#





#25

Ethyl Acetate

Concen: 0.077 ppbv

RT: 2.849 min Scan# 850

Delta R.T. 0.010 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 2623

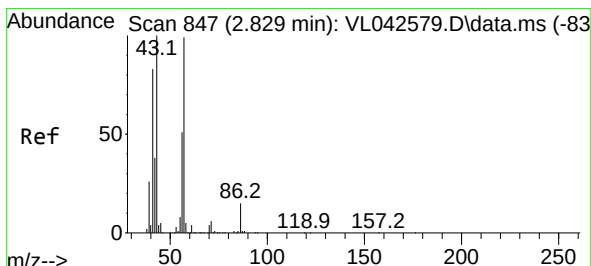
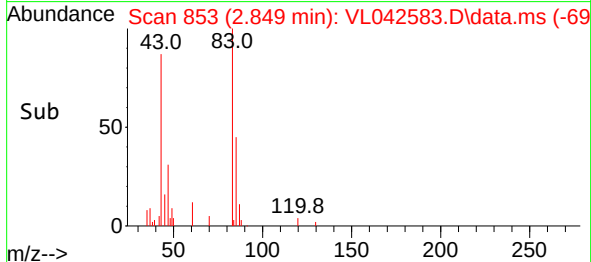
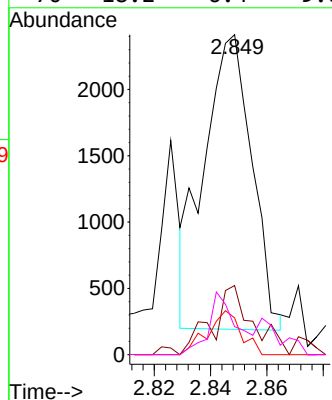
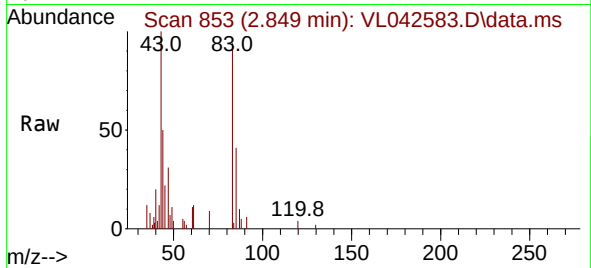
Ion Ratio Lower Upper

43 100

45 23.4 8.2 12.2#

61 10.4 7.1 10.7

70 18.2 6.4 9.6#



#26

Hexane

Concen: 0.117 ppbv

RT: 2.829 min Scan# 847

Delta R.T. 0.000 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

Tgt Ion: 57 Resp: 1816

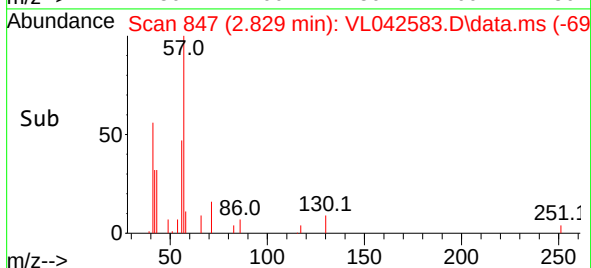
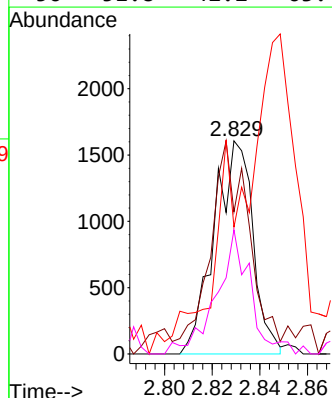
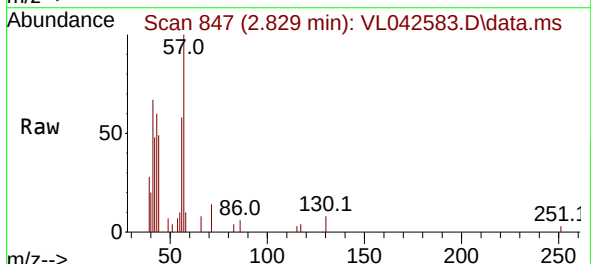
Ion Ratio Lower Upper

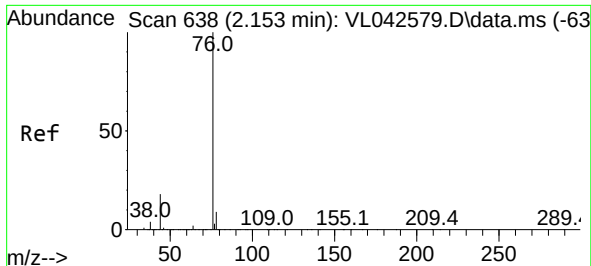
57 100

41 115.2 70.6 106.0#

43 0.0 181.1 271.7#

56 51.8 42.2 63.4

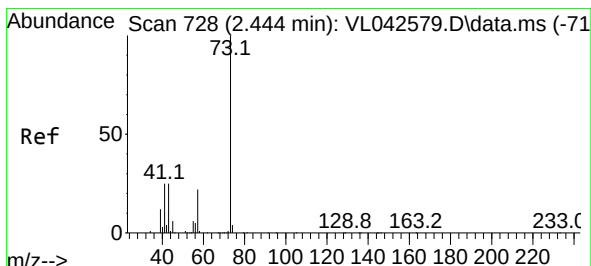
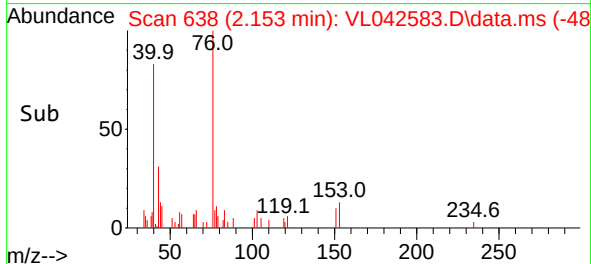
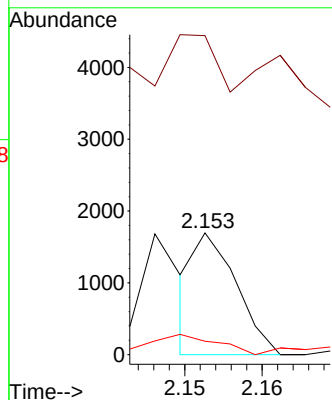
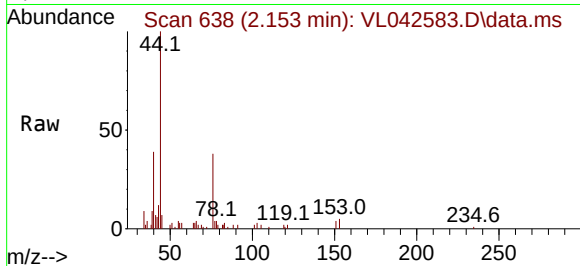




#27
Carbon Disulfide
Concen: 0.054 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

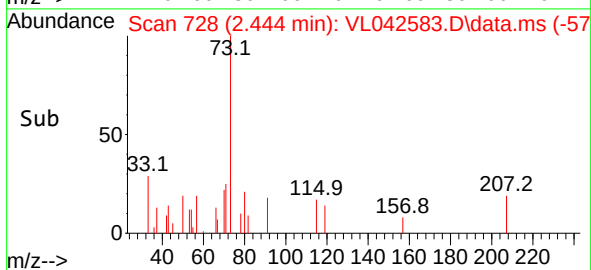
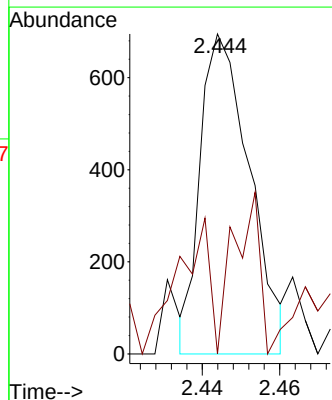
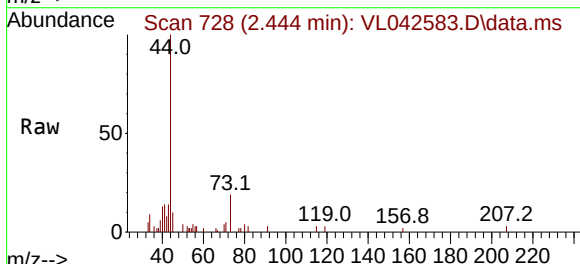
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

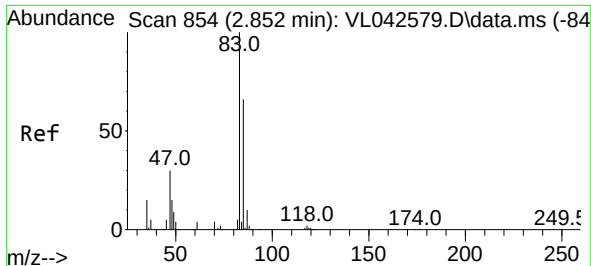
Tgt Ion: 76 Resp: 641
Ion Ratio Lower Upper
76 100
44 623.6 21.3 31.9#
78 55.7 9.4 14.0#



#28
Methyl tert-Butyl Ether
Concen: 0.098 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 73 Resp: 614
Ion Ratio Lower Upper
73 100
57 0.0 19.9 29.9#





#29

Chloroform

Concen: 0.114 ppbv

RT: 2.849 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

Instrument :

MSVOA_1

ClientSampleId :

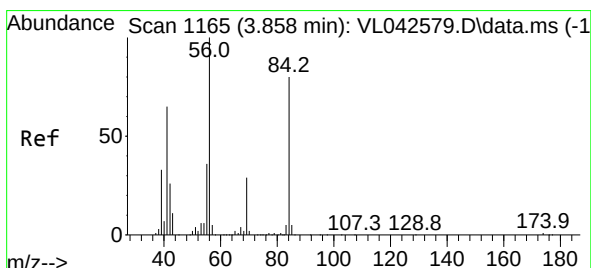
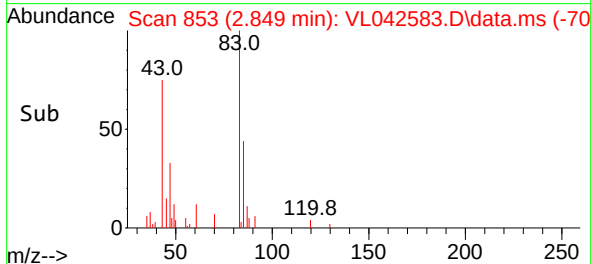
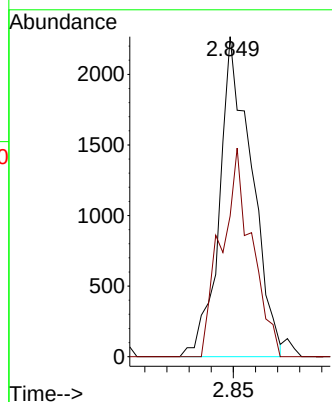
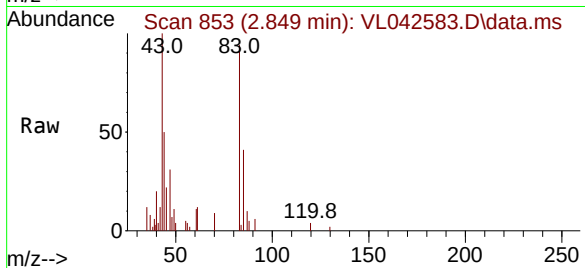
VSTDIC0.1

Tgt Ion: 83 Resp: 2298

Ion Ratio Lower Upper

83 100

85 43.9 52.8 79.2#



#30

Cyclohexane

Concen: 0.058 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.006 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

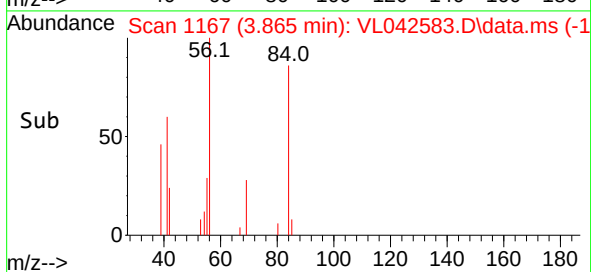
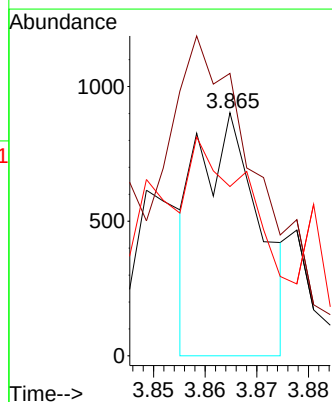
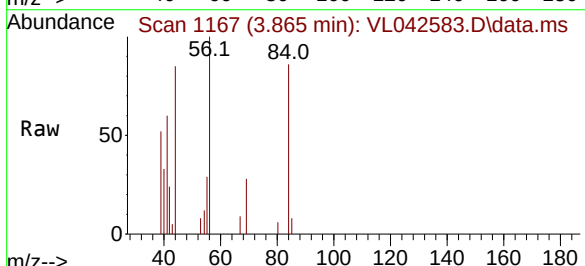
Tgt Ion: 84 Resp: 743

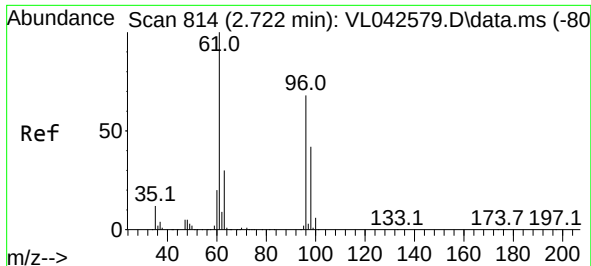
Ion Ratio Lower Upper

84 100

56 253.6 103.7 155.5#

41 265.9 65.1 97.7#

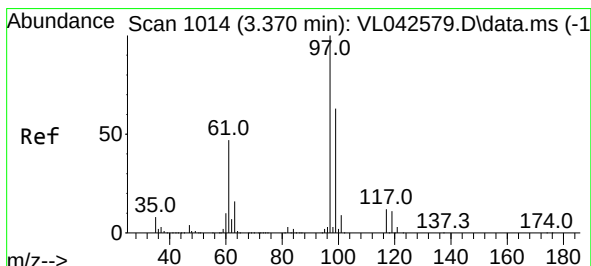
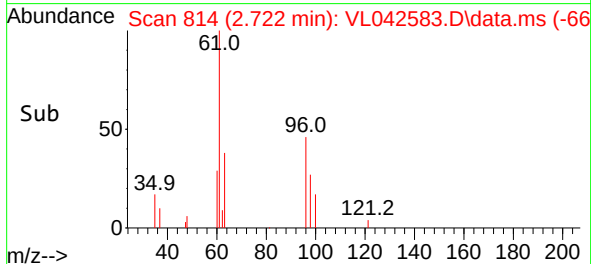
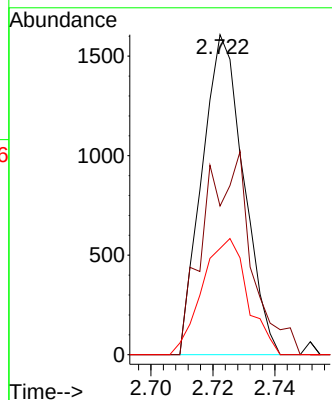
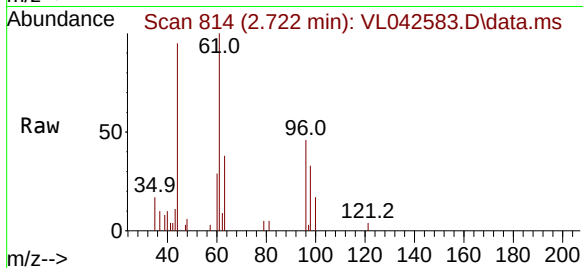




#31
 cis-1,2-Dichloroethene
 Concen: 0.106 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: VL042583.D
 Acq: 29 May 2025 13:19

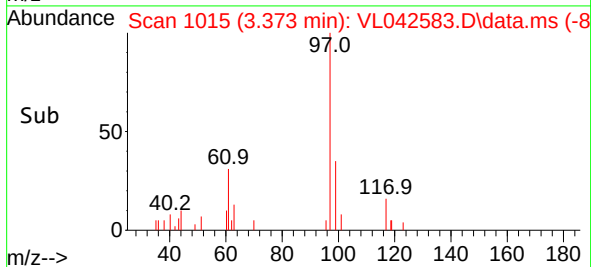
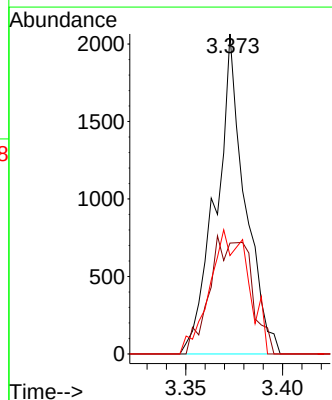
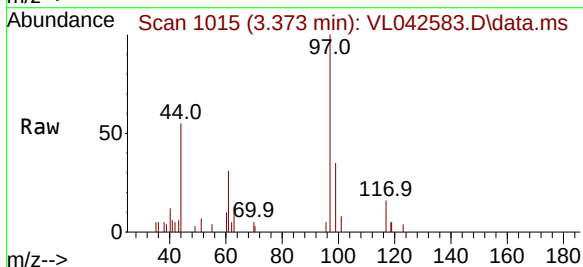
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

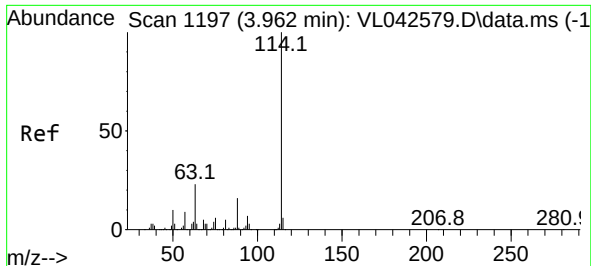
Tgt Ion: 61 Resp: 1499
 Ion Ratio Lower Upper
 61 100
 96 46.5 54.5 81.7#
 98 33.2 33.4 50.2#



#32
 1,1,1-Trichloroethane
 Concen: 0.107 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.003 min
 Lab File: VL042583.D
 Acq: 29 May 2025 13:19

Tgt Ion: 97 Resp: 2153
 Ion Ratio Lower Upper
 97 100
 99 52.2 51.0 76.6
 61 51.3 39.4 59.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.000 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.1

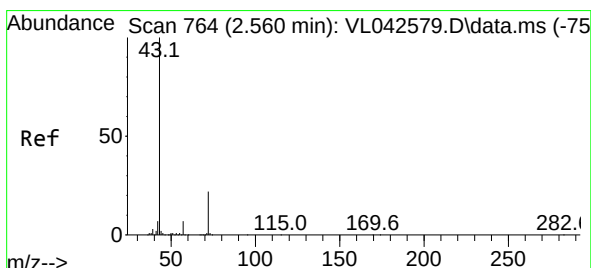
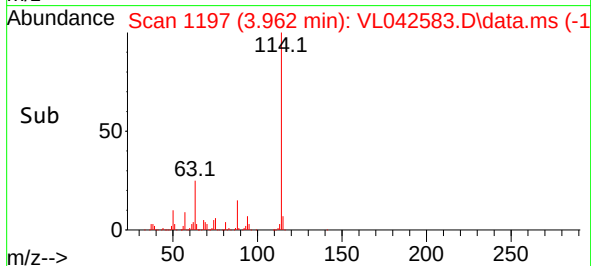
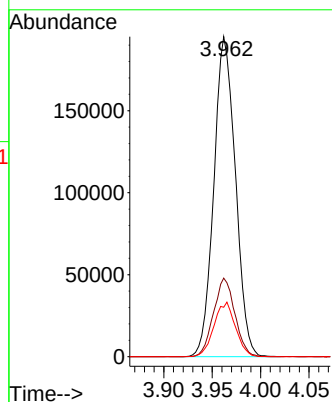
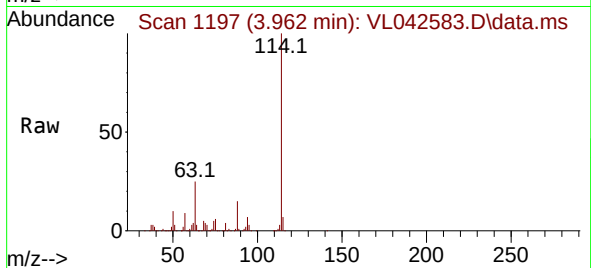
Tgt Ion:114 Resp: 302218

Ion Ratio Lower Upper

114 100

63 24.3 19.0 28.6

88 17.0 13.6 20.4



#34

2-Butanone

Concen: 0.144 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.006 min

Lab File: VL042583.D

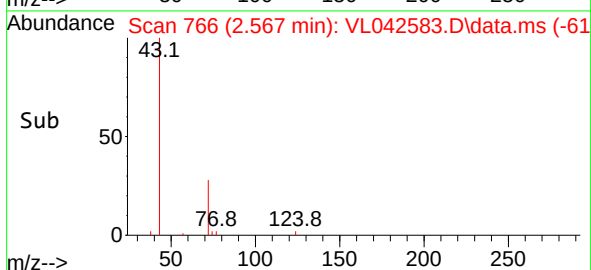
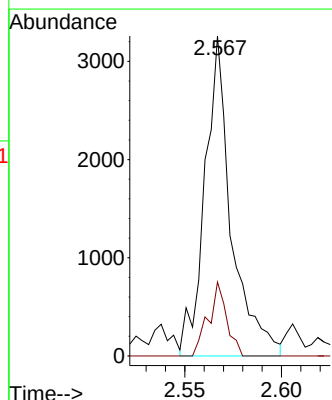
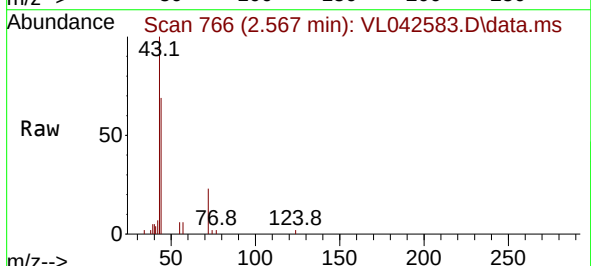
Acq: 29 May 2025 13:19

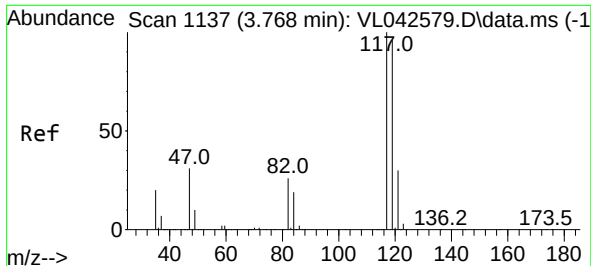
Tgt Ion: 43 Resp: 3113

Ion Ratio Lower Upper

43 100

72 15.9 17.7 26.5#

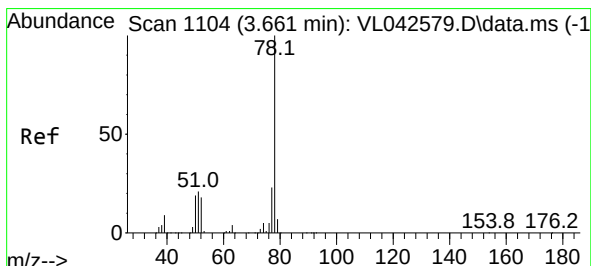
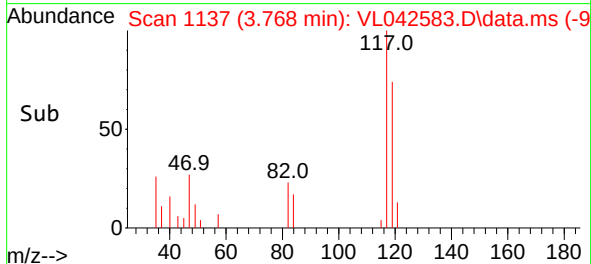
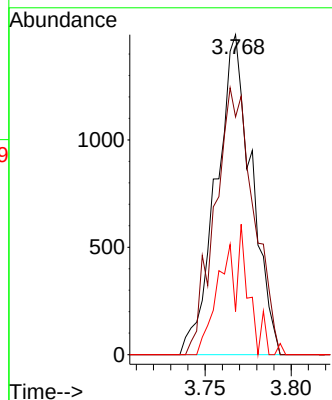
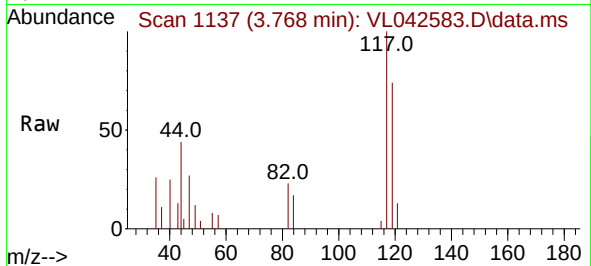




#35
Carbon Tetrachloride
Concen: 0.107 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

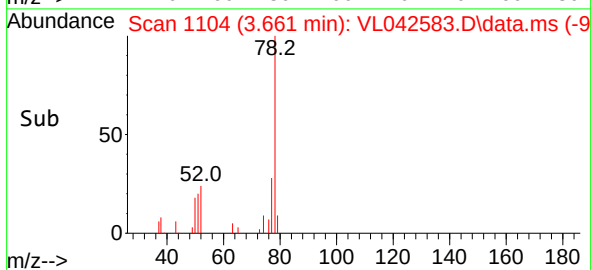
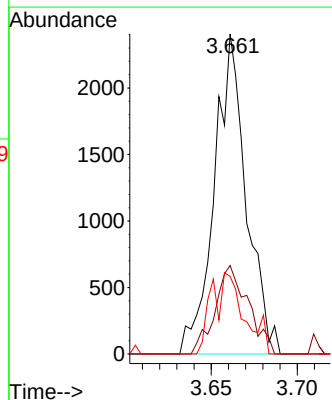
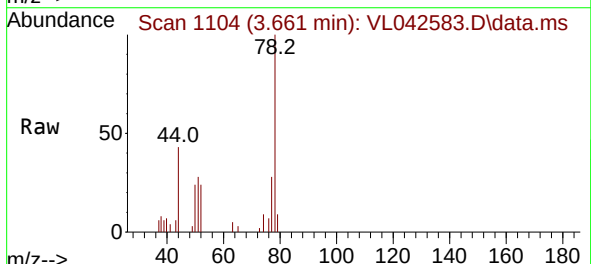
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

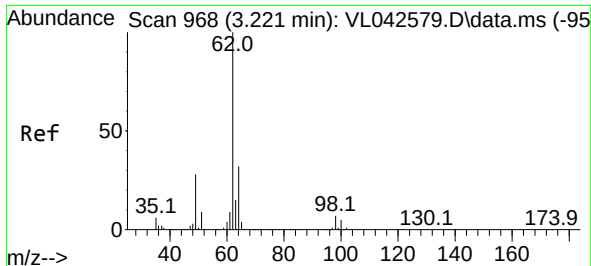
Tgt Ion:117 Resp: 2135
Ion Ratio Lower Upper
117 100
119 74.3 76.8 115.2#
121 13.5 24.3 36.5#



#36
Benzene
Concen: 0.104 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 78 Resp: 3109
Ion Ratio Lower Upper
78 100
77 27.6 18.2 27.2#
50 24.2 15.2 22.8#

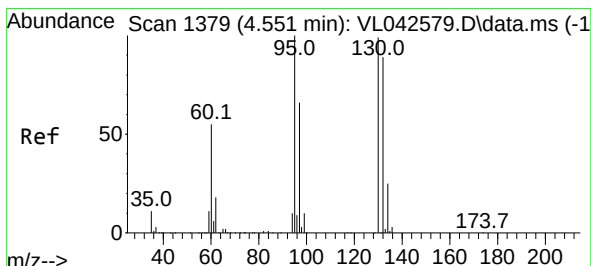
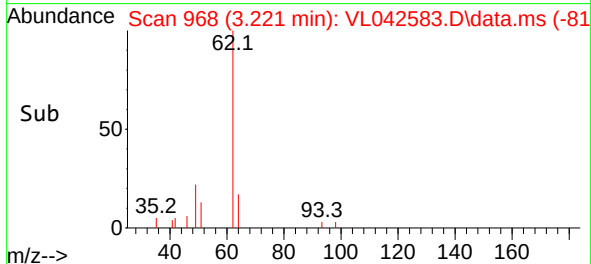
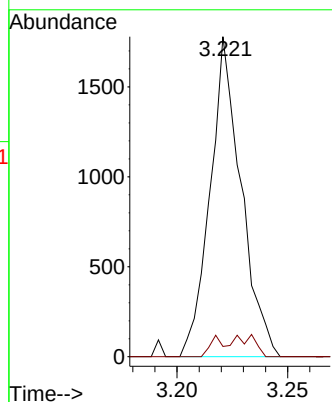
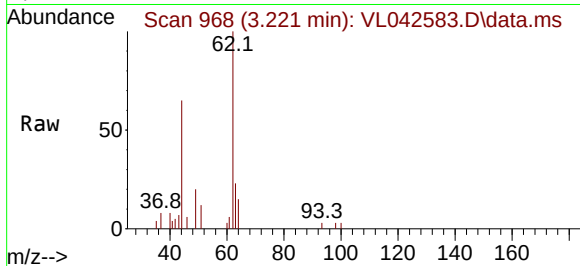




#37
1,2-Dichloroethane
Concen: 0.117 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

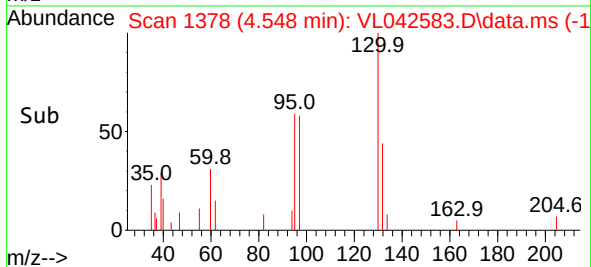
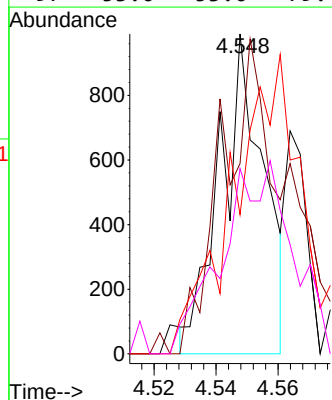
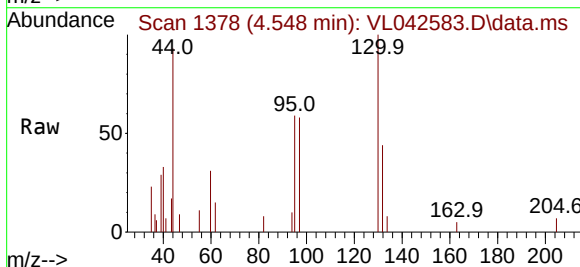
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

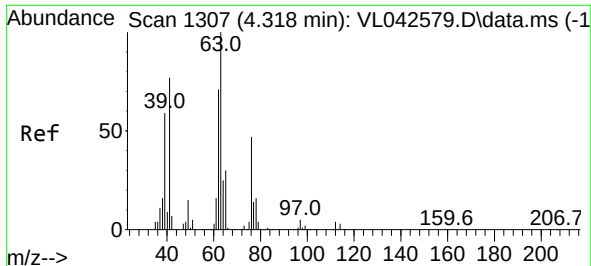
Tgt Ion: 62 Resp: 1731
Ion Ratio Lower Upper
62 100
98 7.4 6.1 9.1



#38
Trichloroethene
Concen: 0.076 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. -0.003 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 130 Resp: 963
Ion Ratio Lower Upper
130 100
95 64.9 80.6 121.0#
132 35.8 71.8 107.6#
97 53.0 53.0 79.4





#39

1,2-Dichloropropane

Concen: 6.683 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.356 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

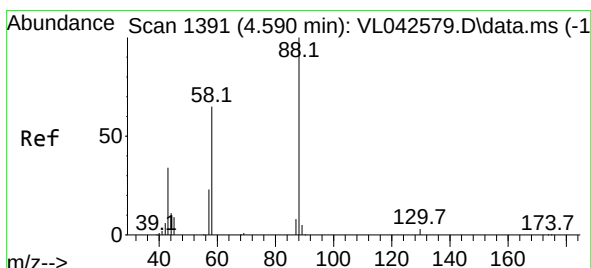
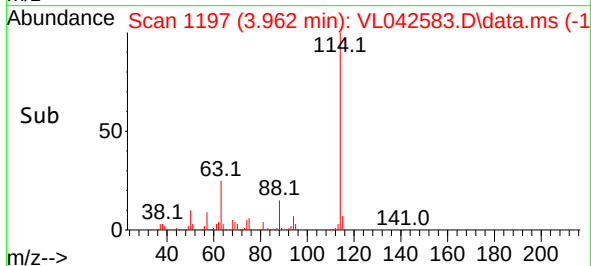
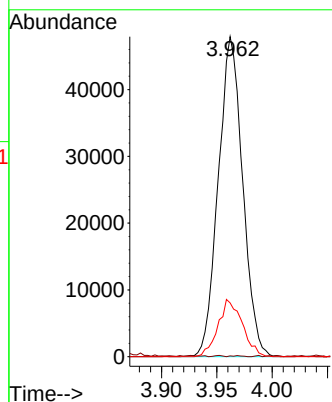
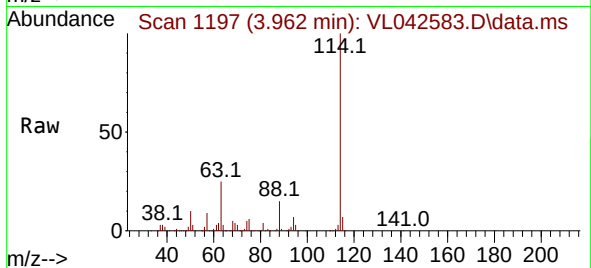
Tgt Ion: 63 Resp: 73521

Ion Ratio Lower Upper

63 100

41 0.0 61.8 92.6#

62 16.8 56.6 85.0#



#40

1,4-Dioxane

Concen: 0.016 ppbv

RT: 4.612 min Scan# 1398

Delta R.T. 0.023 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

Tgt Ion: 88 Resp: 74

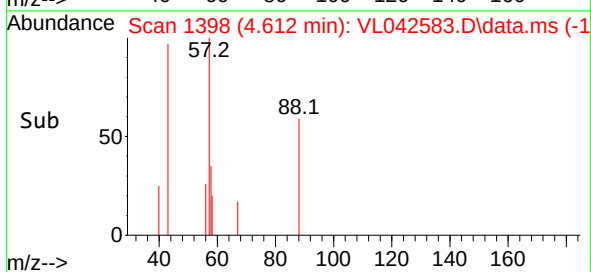
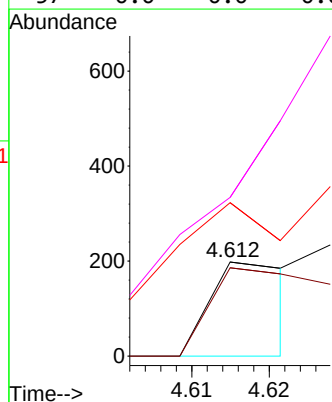
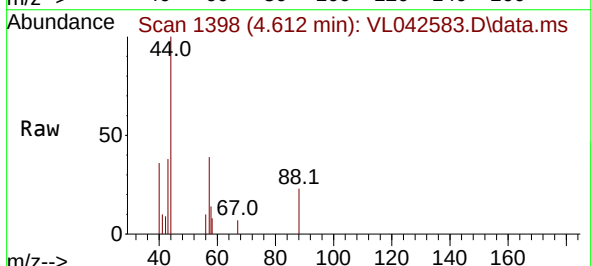
Ion Ratio Lower Upper

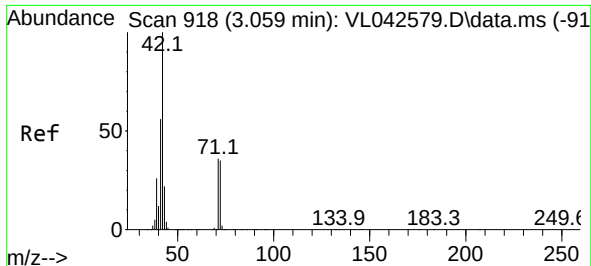
88 100

58 0.0 55.8 83.8#

43 500.0 24.8 37.2#

57 0.0 0.0 0.0

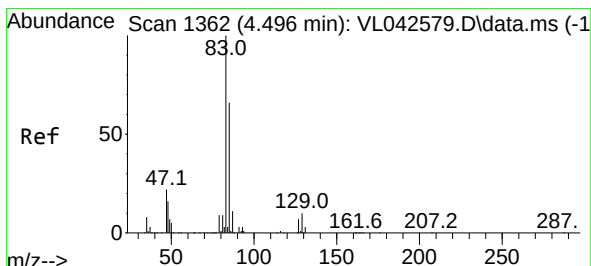
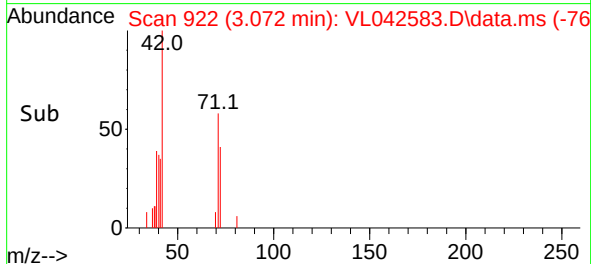
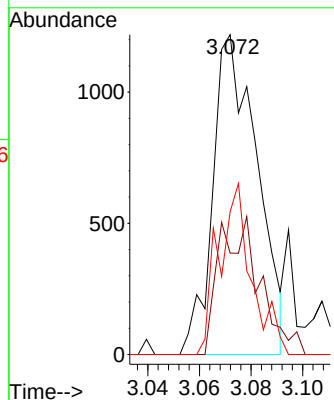
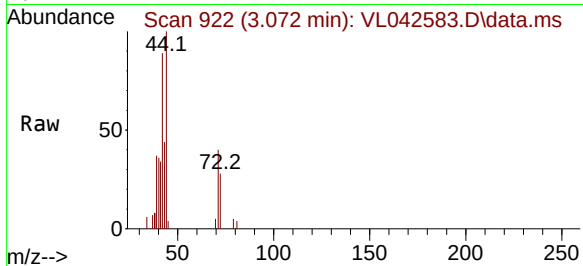




#41
Tetrahydrofuran
Concen: 0.115 ppbv
RT: 3.072 min Scan# 918
Delta R.T. 0.013 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

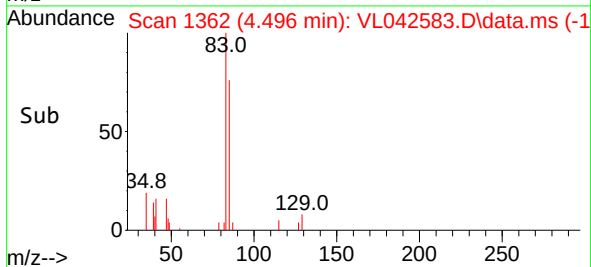
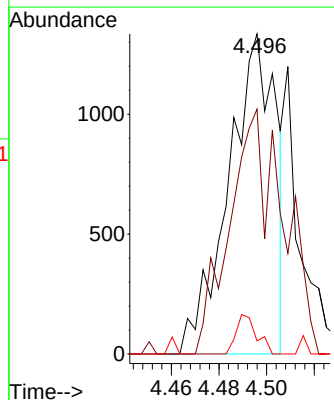
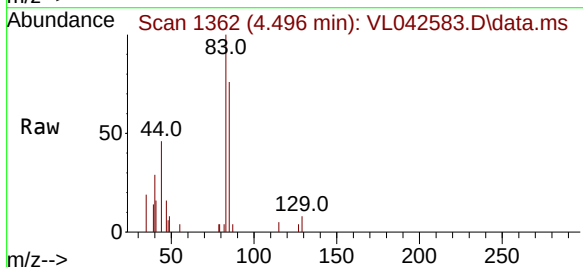
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

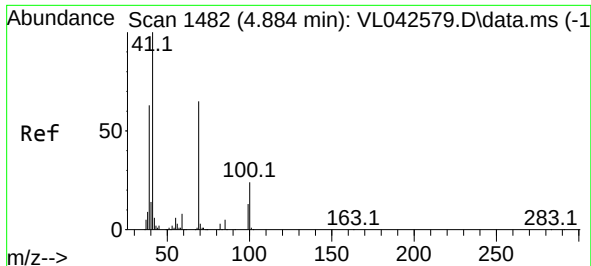
Tgt Ion:	42	Resp:	1452
Ion	Ratio	Lower	Upper
42	100		
72	39.5	28.9	43.3
71	39.7	28.5	42.7



#42
Bromodichloromethane
Concen: 0.087 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion:	83	Resp:	1835
Ion	Ratio	Lower	Upper
83	100		
85	76.5	52.7	79.1
127	4.1	5.8	8.6





#43

Methyl Methacrylate

Concen: 0.059 ppbv

RT: 4.891 min Scan# 1484

Delta R.T. 0.006 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

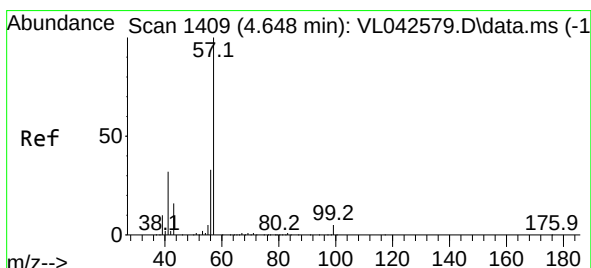
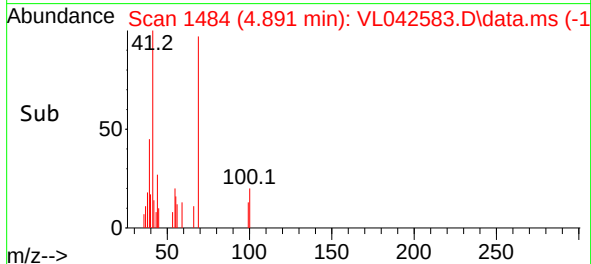
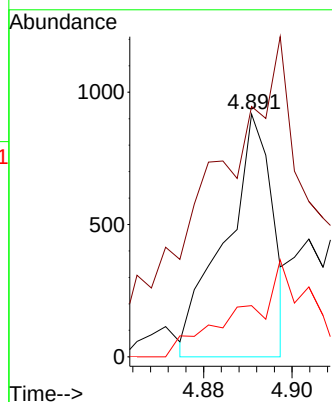
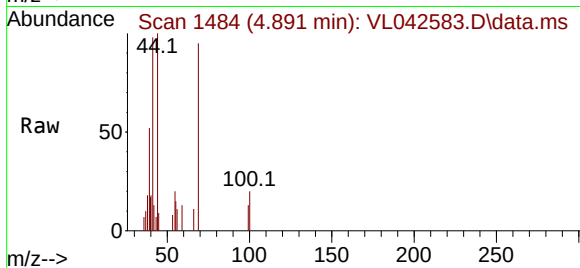
Tgt Ion: 69 Resp: 685

Ion Ratio Lower Upper

69 100

41 0.0 124.6 187.0#

100 0.0 29.9 44.9#



#44

2,2,4-Trimethylpentane

Concen: 0.061 ppbv

RT: 4.651 min Scan# 1410

Delta R.T. 0.003 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

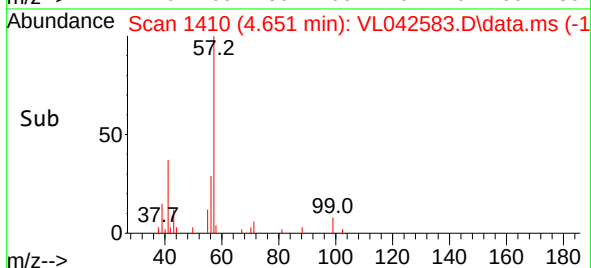
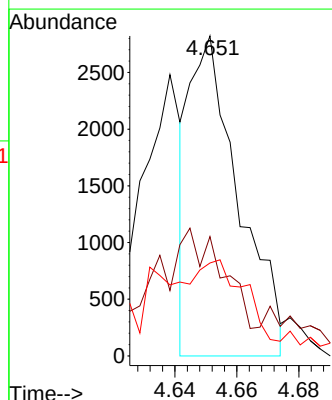
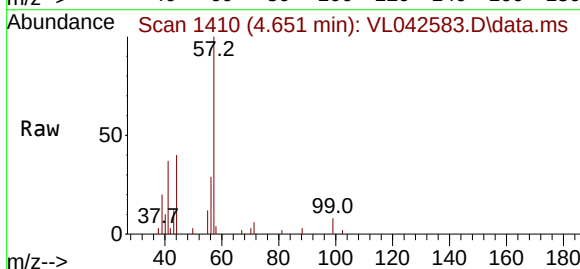
Tgt Ion: 57 Resp: 3117

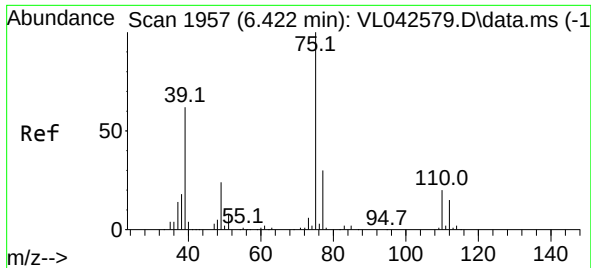
Ion Ratio Lower Upper

57 100

41 85.0 26.1 39.1#

56 65.4 25.9 38.9#

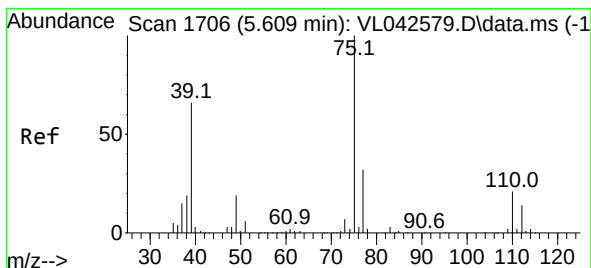
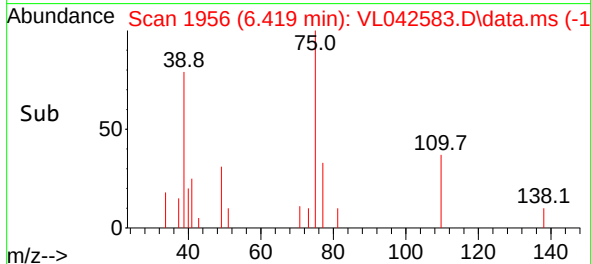
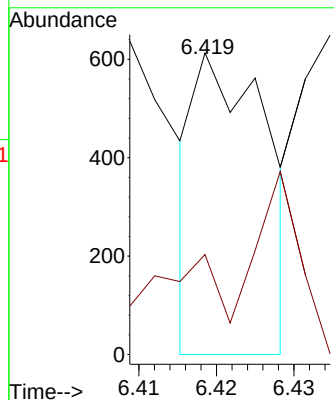
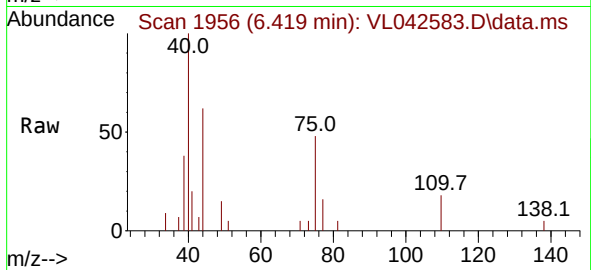




#45
 t-1,3-Dichloropropene
 Concen: 0.030 ppbv
 RT: 6.419 min Scan# 1957
 Delta R.T. -0.003 min
 Lab File: VL042583.D
 Acq: 29 May 2025 13:19

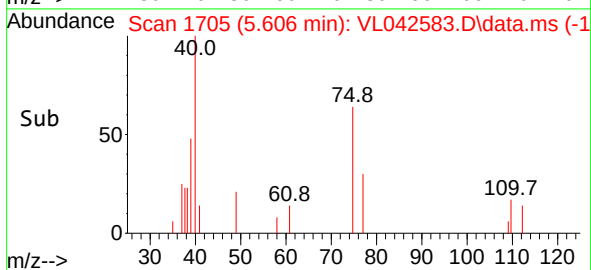
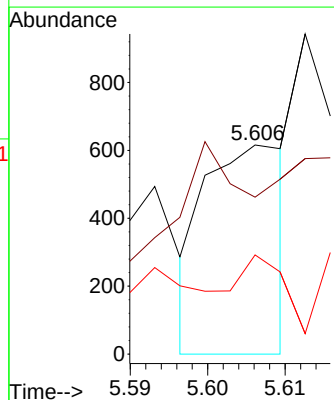
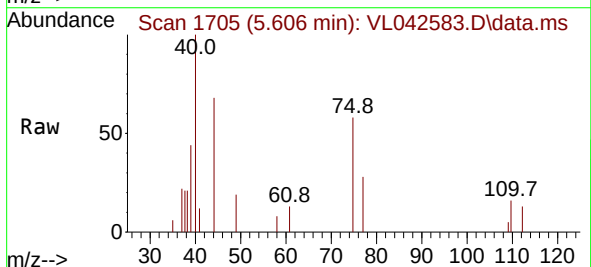
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

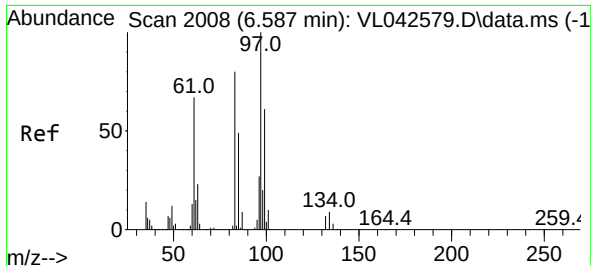
Tgt Ion: 75 Resp: 397
 Ion Ratio Lower Upper
 75 100
 77 33.1 24.2 36.2



#46
 cis-1,3-Dichloropropene
 Concen: 0.027 ppbv
 RT: 5.606 min Scan# 1705
 Delta R.T. -0.003 min
 Lab File: VL042583.D
 Acq: 29 May 2025 13:19

Tgt Ion: 75 Resp: 449
 Ion Ratio Lower Upper
 75 100
 39 17.9 52.7 79.1#
 77 27.6 25.8 38.8

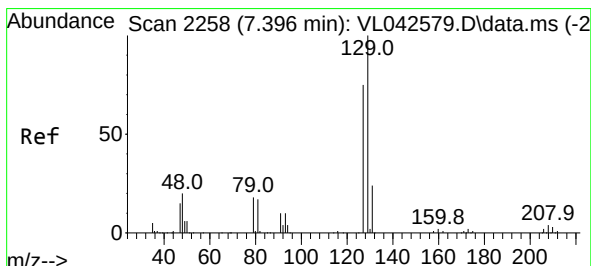
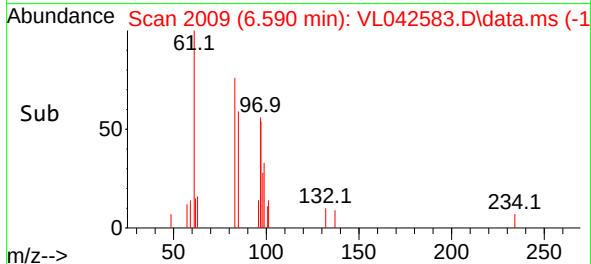
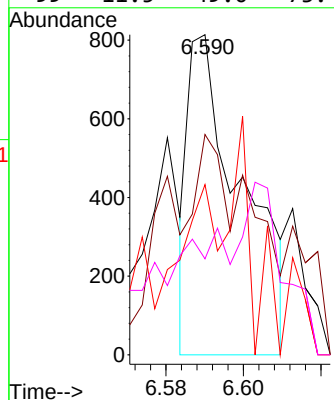
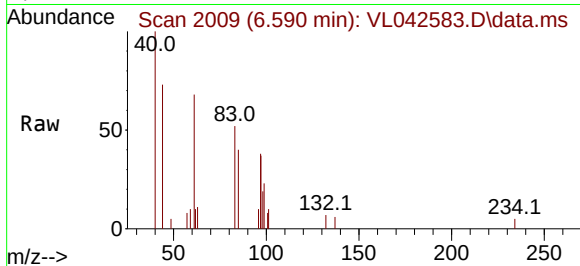




#47
1,1,2-Trichloroethane
Concen: 0.069 ppbv
RT: 6.590 min Scan# 2008
Delta R.T. 0.003 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

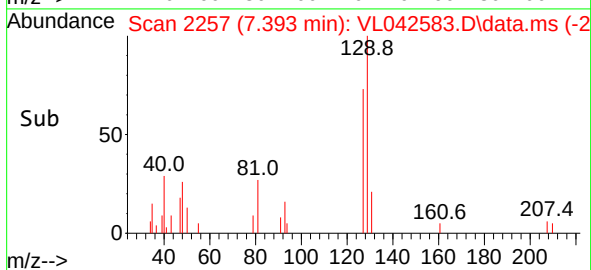
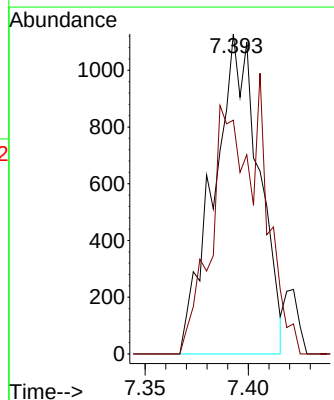
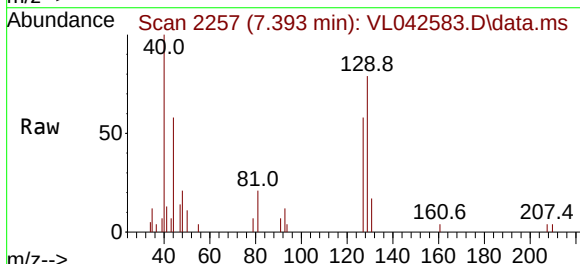
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

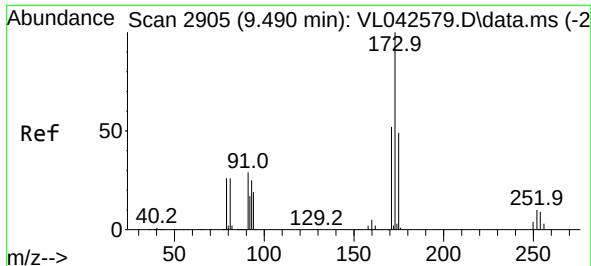
Tgt Ion: 97	Resp:	786
Ion	Ratio	Lower Upper
97	100	
83	68.9	63.9 95.9
85	83.1	39.2 58.8#
99	11.5	49.0 73.4#



#48
Dibromochloromethane
Concen: 0.094 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. -0.003 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 129	Resp:	1718
Ion	Ratio	Lower Upper
129	100	
127	89.2	39.0 116.9

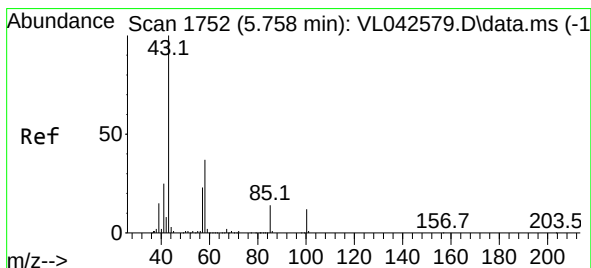
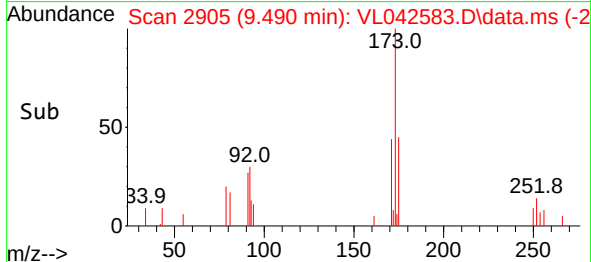
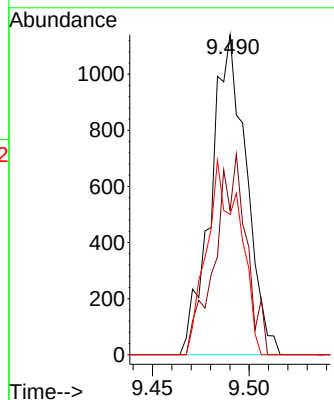
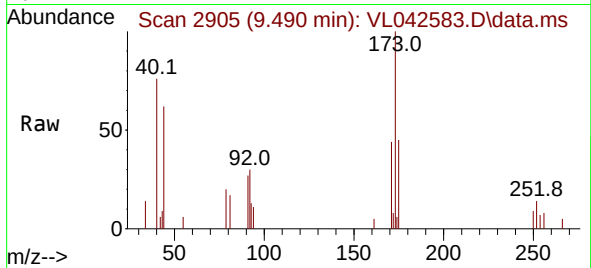




#49
Bromoform
Concen: 0.092 ppbv
RT: 9.490 min Scan# 2905
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

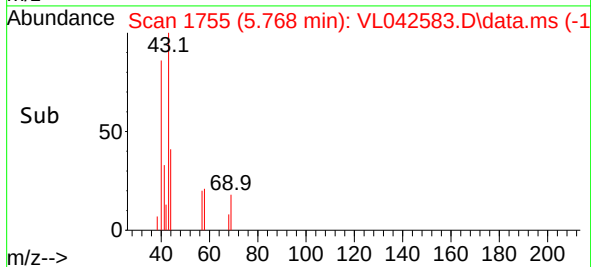
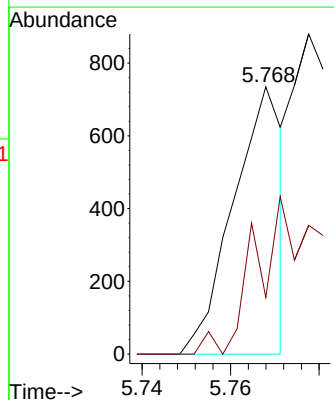
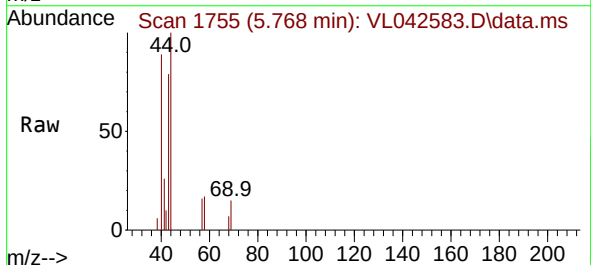
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

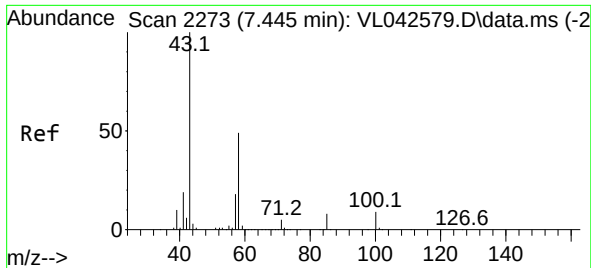
Tgt Ion:173 Resp: 1444
Ion Ratio Lower Upper
173 100
175 55.7 38.7 58.1
171 56.9 41.2 61.8



#50
4-Methyl-2-Pentanone
Concen: 0.019 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.010 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 43 Resp: 563
Ion Ratio Lower Upper
43 100
58 74.4 28.3 42.5#

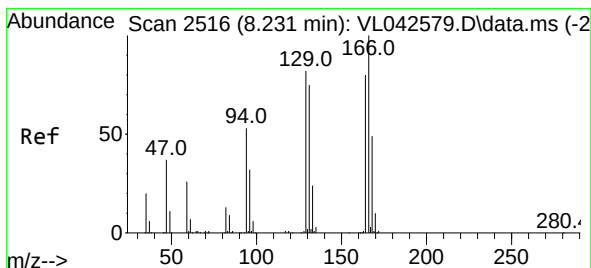
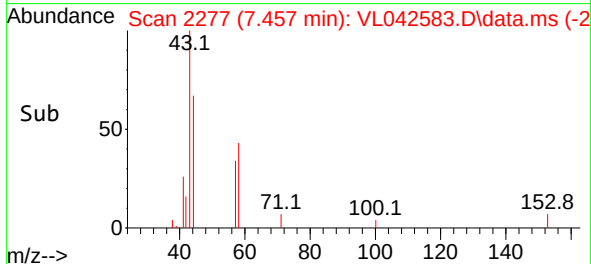
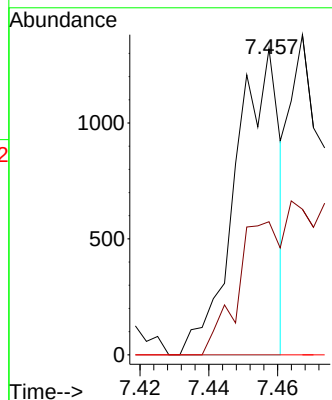
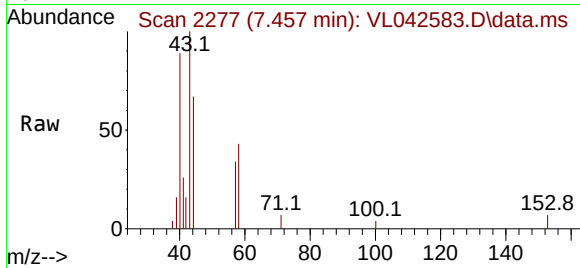




#51
2-Hexanone
Concen: 0.049 ppbv
RT: 7.457 min Scan# 2117
Delta R.T. 0.013 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

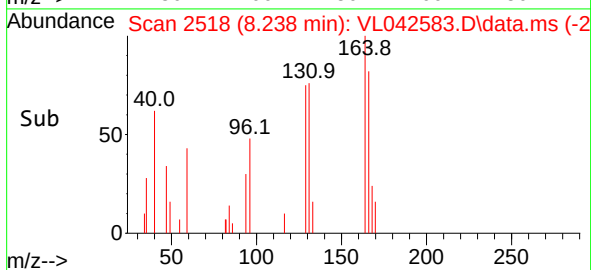
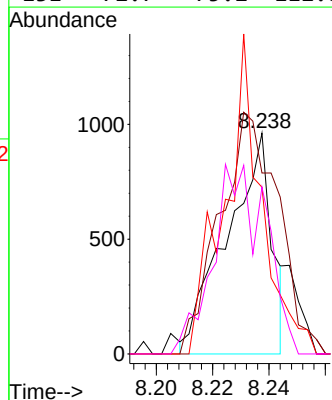
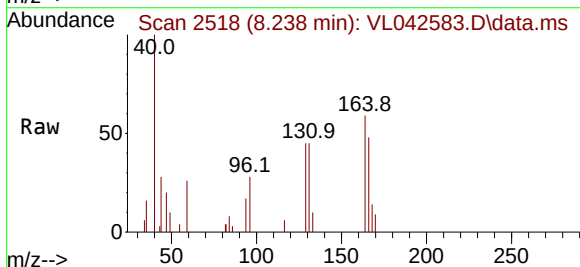
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

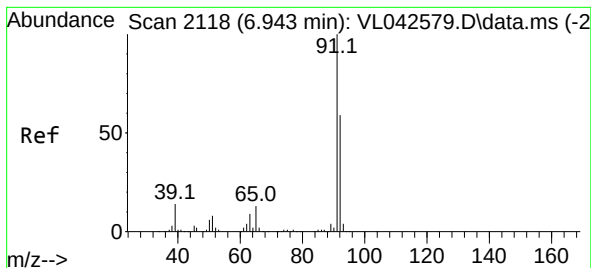
Tgt Ion: 43 Resp: 1172
Ion Ratio Lower Upper
43 100
58 0.0 39.9 59.9#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.095 ppbv
RT: 8.238 min Scan# 2518
Delta R.T. 0.006 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 164 Resp: 1060
Ion Ratio Lower Upper
164 100
166 86.6 100.0 150.0#
129 79.8 82.2 123.4#
131 72.7 75.2 112.8#





#53

Toluene

Concen: 0.046 ppbv

RT: 6.940 min Scan# 2118

Delta R.T. -0.003 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

Instrument :

MSVOA_L

ClientSampleId :

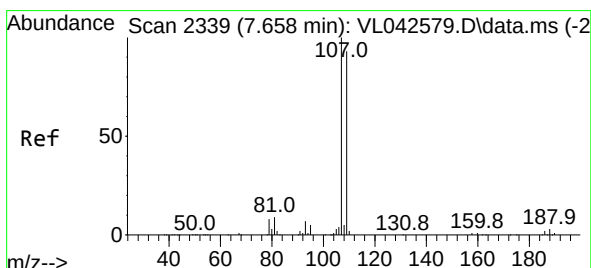
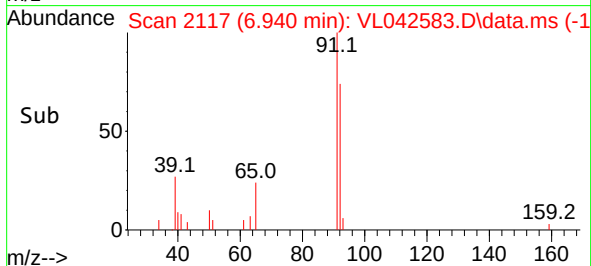
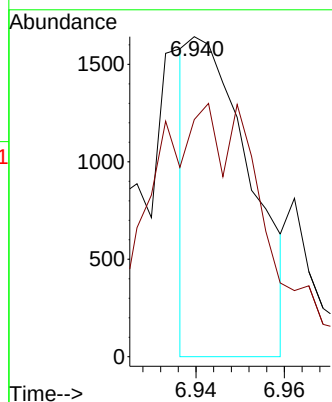
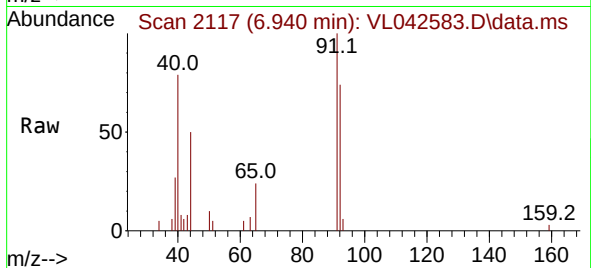
VSTDIC0.1

Tgt Ion: 91 Resp: 1577

Ion Ratio Lower Upper

91 100

92 157.8 48.2 72.4#



#54

1,2-Dibromoethane

Concen: 0.029 ppbv

RT: 7.648 min Scan# 2336

Delta R.T. -0.010 min

Lab File: VL042583.D

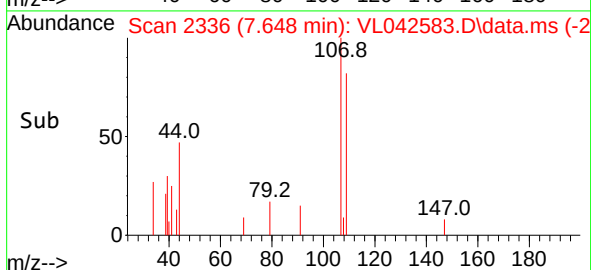
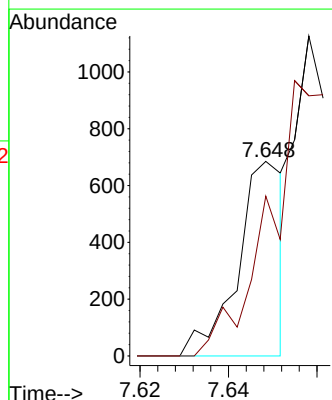
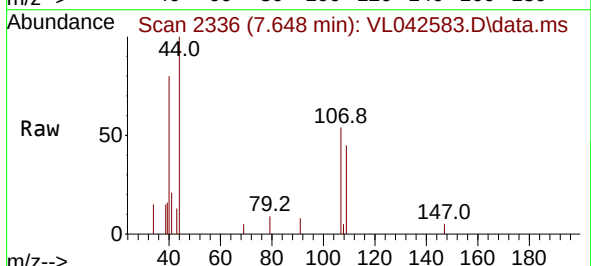
Acq: 29 May 2025 13:19

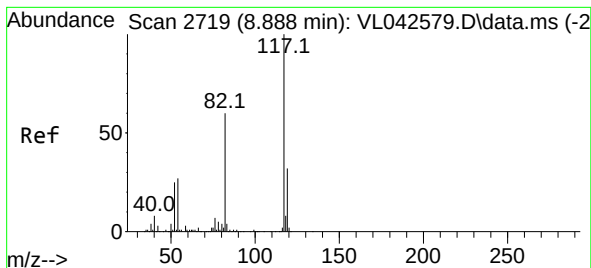
Tgt Ion: 107 Resp: 492

Ion Ratio Lower Upper

107 100

109 82.2 74.3 111.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

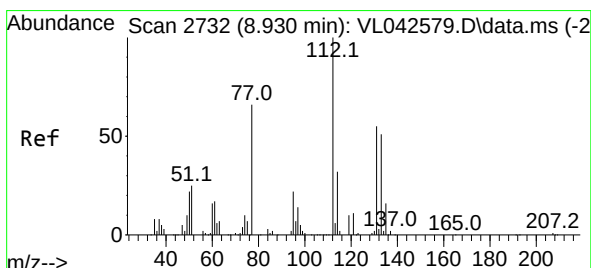
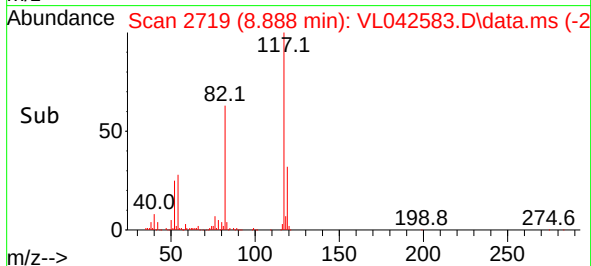
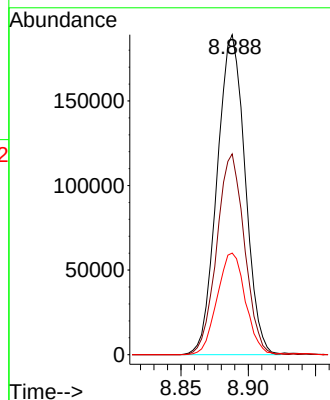
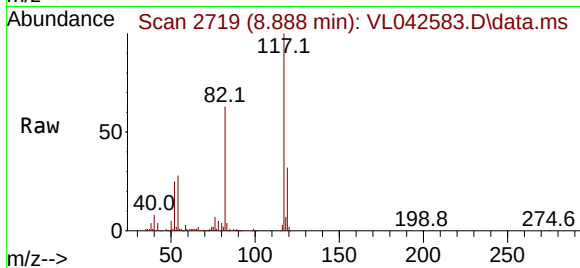
Tgt Ion:117 Resp: 273881

Ion Ratio Lower Upper

117 100

82 62.1 51.2 76.8

119 32.3 26.3 39.5



#56

1,1,1,2-Tetrachloroethane

Concen: 0.038 ppbv

RT: 8.940 min Scan# 2735

Delta R.T. 0.010 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

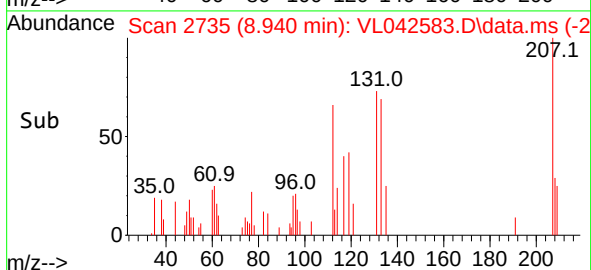
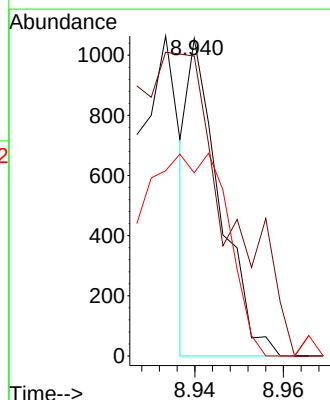
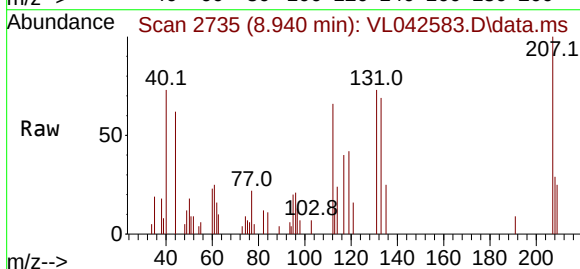
Tgt Ion:131 Resp: 527

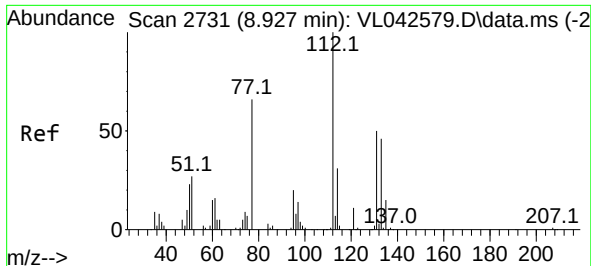
Ion Ratio Lower Upper

131 100

133 0.0 75.0 112.6#

119 0.0 50.8 76.2#

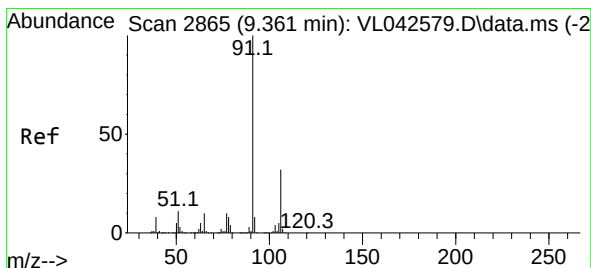
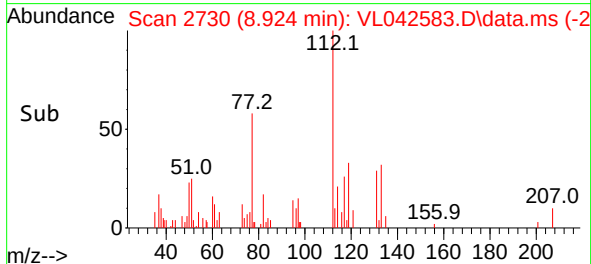
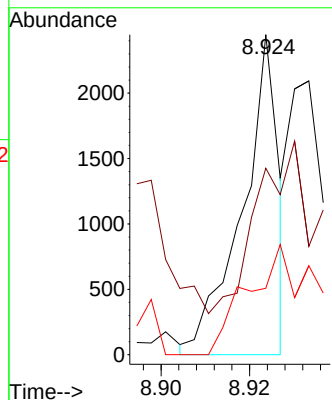
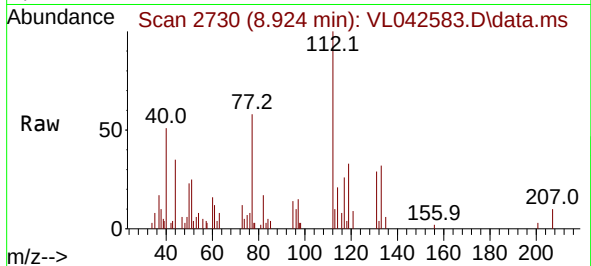




#57
Chlorobenzene
Concen: 0.053 ppbv
RT: 8.924 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

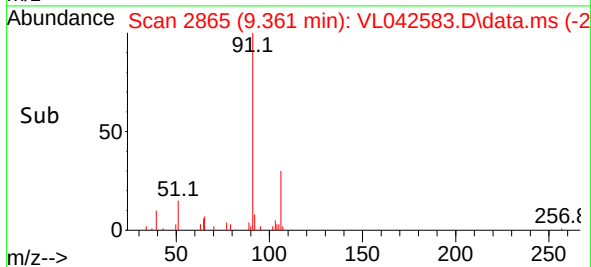
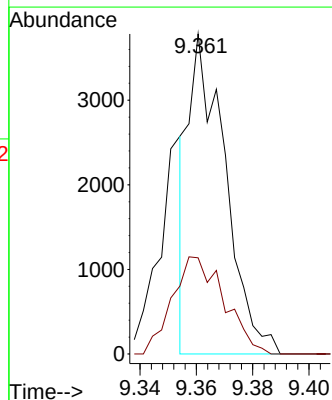
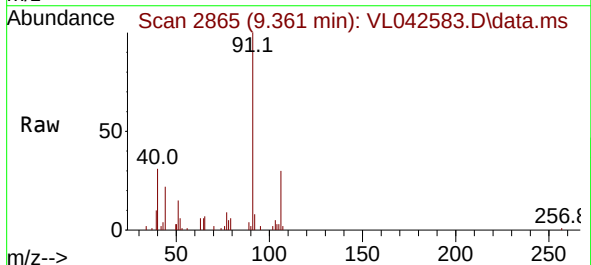
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

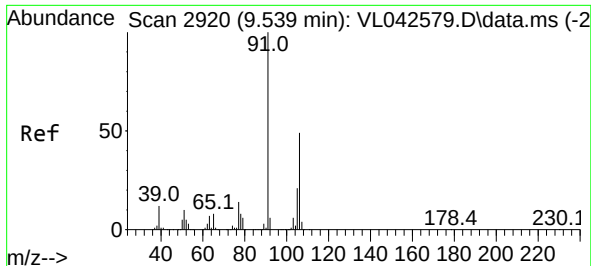
Tgt Ion: 112 Resp: 1397
Ion Ratio Lower Upper
112 100
77 38.8 53.5 80.3#
114 21.4 27.8 34.0#



#58
Ethyl Benzene
Concen: 0.073 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 91 Resp: 3383
Ion Ratio Lower Upper
91 100
106 30.1 25.9 38.9





#59

m/p-Xylene

Concen: 0.101 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. 0.003 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

Instrument :

MSVOA_1

ClientSampleId :

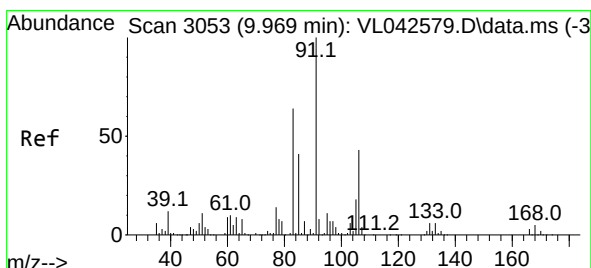
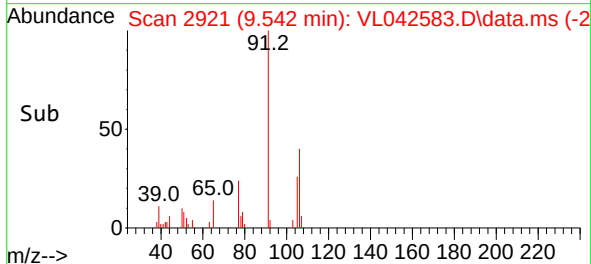
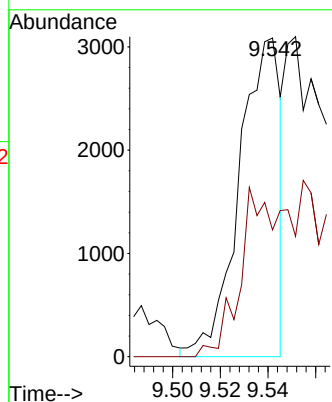
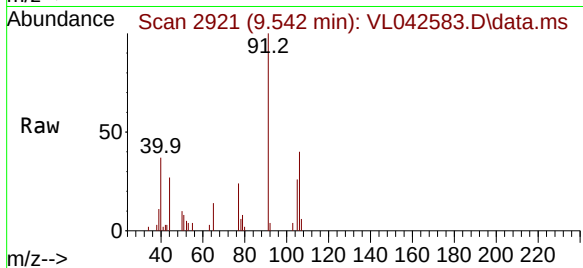
VSTDIC0.1

Tgt Ion: 91 Resp: 3685

Ion Ratio Lower Upper

91 100

106 0.0 38.8 58.2#



#60

o-Xylene

Concen: 0.084 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.003 min

Lab File: VL042583.D

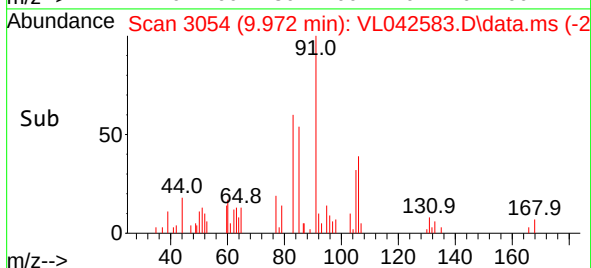
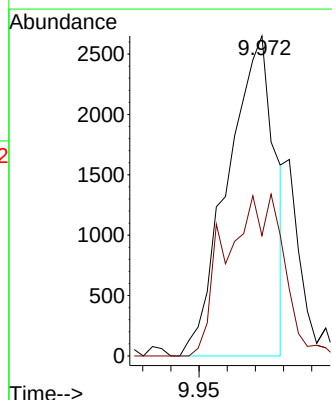
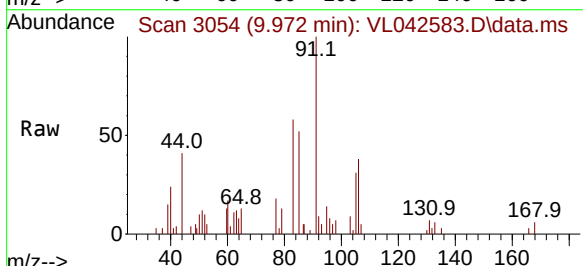
Acq: 29 May 2025 13:19

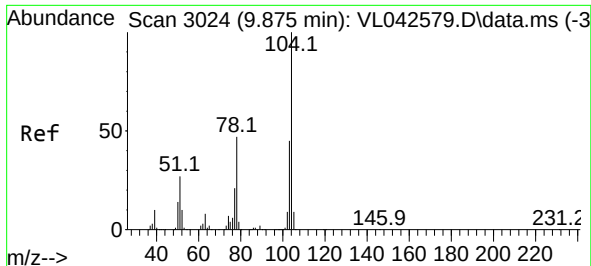
Tgt Ion: 91 Resp: 3081

Ion Ratio Lower Upper

91 100

106 61.7 22.9 68.5

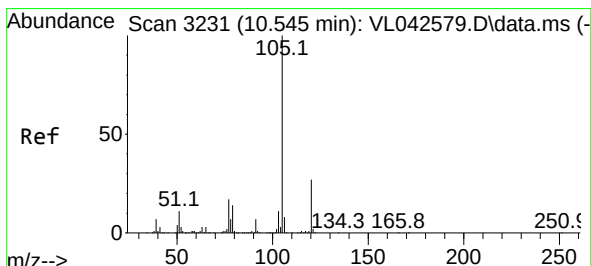
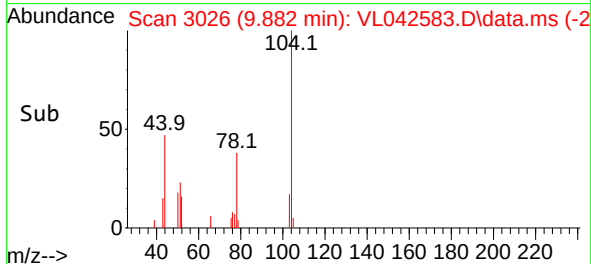
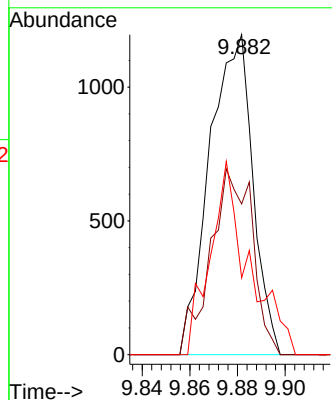
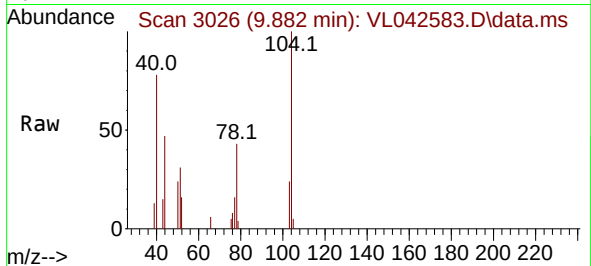




#61
Styrene
Concen: 0.087 ppbv
RT: 9.882 min Scan# 3024
Delta R.T. 0.006 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

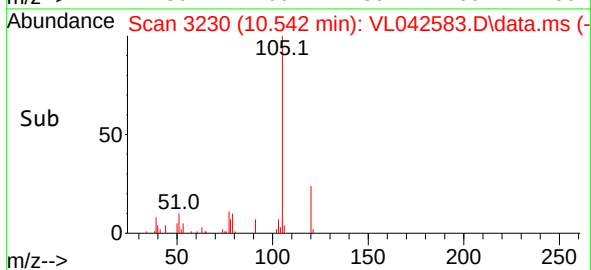
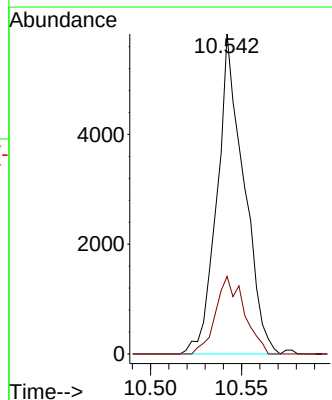
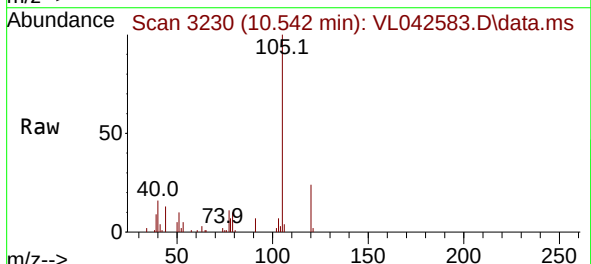
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

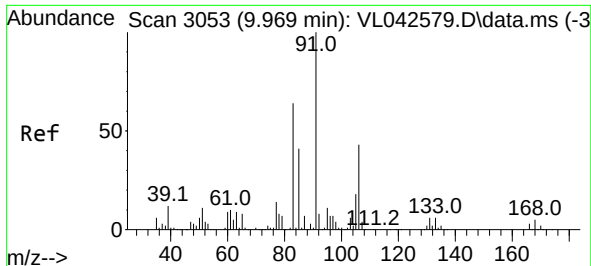
Tgt Ion:104 Resp: 1504
Ion Ratio Lower Upper
104 100
78 56.3 38.2 57.4
103 53.7 36.7 55.1



#62
Isopropylbenzene
Concen: 0.110 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.003 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion:105 Resp: 5949
Ion Ratio Lower Upper
105 100
120 25.8 20.9 31.3

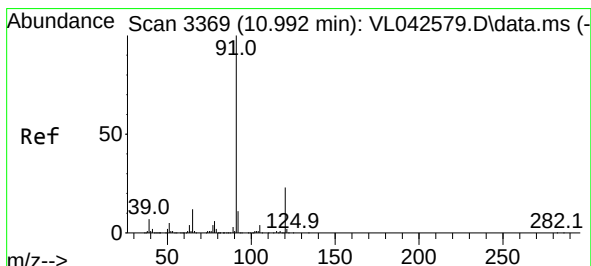
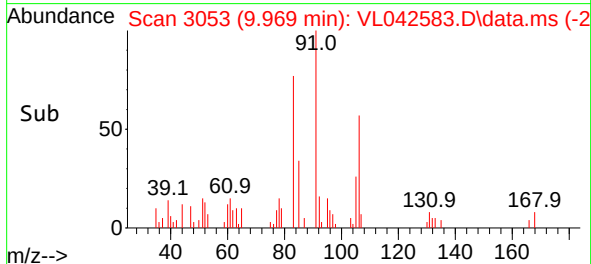
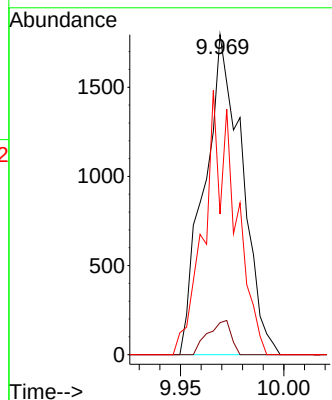
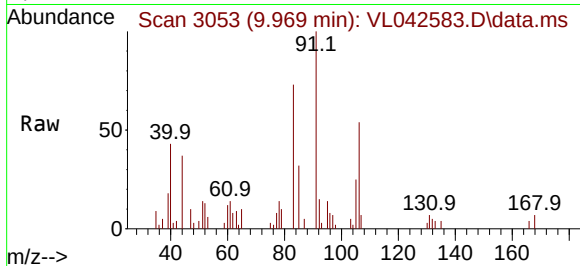




#63
1,1,2,2-Tetrachloroethane
Concen: 0.098 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

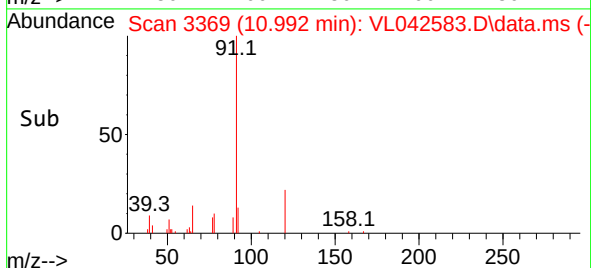
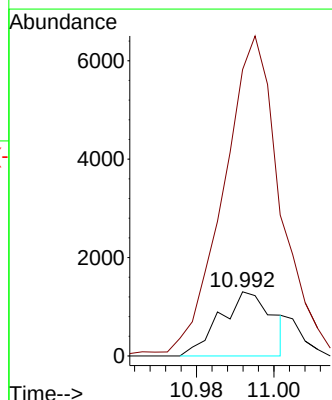
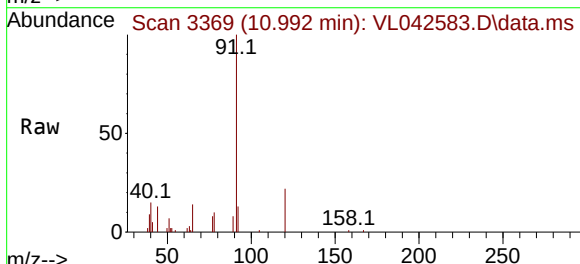
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

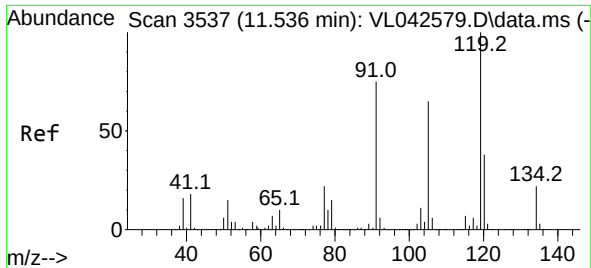
Tgt Ion: 83 Resp: 2267
Ion Ratio Lower Upper
83 100
131 6.6 4.8 14.4
85 68.0 32.5 97.4



#64
n-propylbenzene
Concen: 0.085 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 120 Resp: 1232
Ion Ratio Lower Upper
120 100
91 548.3 363.0 544.6#

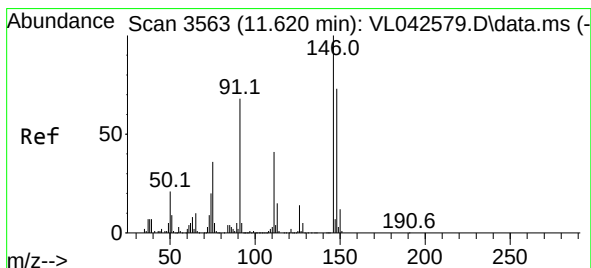
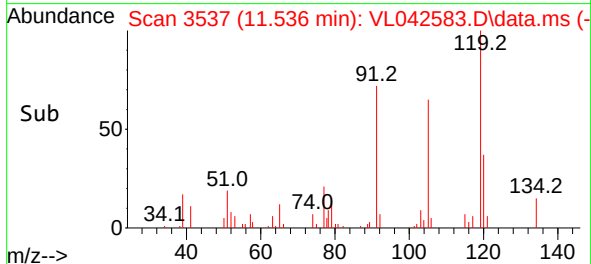
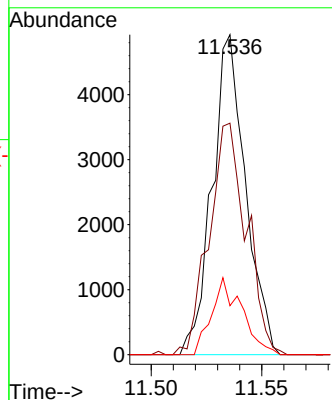
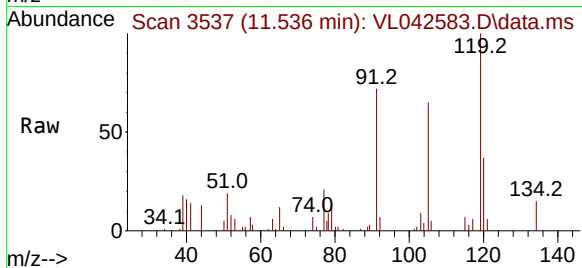




#65
tert-Butylbenzene
Concen: 0.106 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

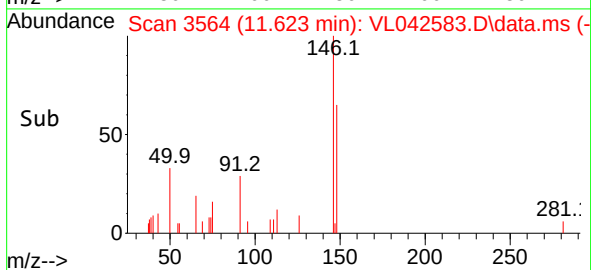
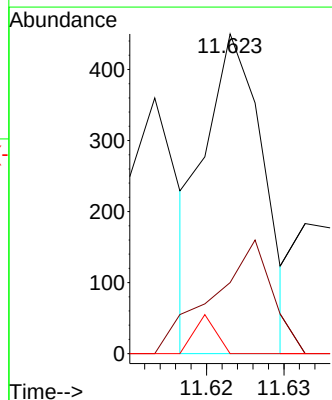
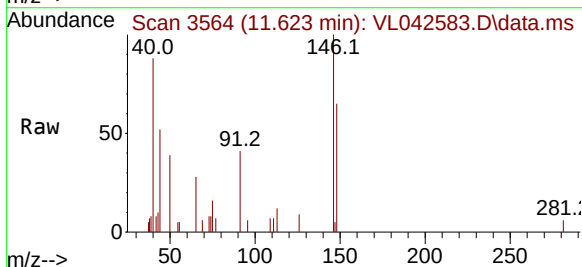
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

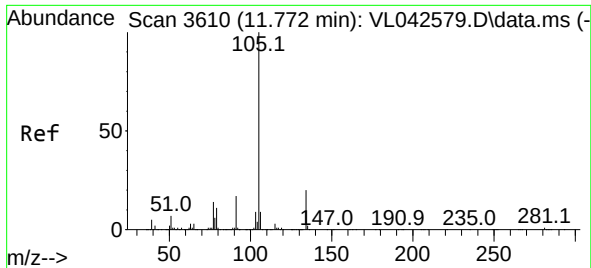
Tgt Ion:	119	Resp:	5169
Ion	Ratio	Lower	Upper
119	100		
91	81.1	61.1	91.7
134	21.9	17.4	26.2



#66
Benzyl Chloride
Concen: 0.037 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion:	91	Resp:	234
Ion	Ratio	Lower	Upper
91	100		
126	36.8	15.1	22.7#
128	0.0	5.0	7.6#





#67

sec-Butylbenzene

Concen: 0.058 ppbv

RT: 11.775 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

Instrument :

MSVOA_1

ClientSampleId :

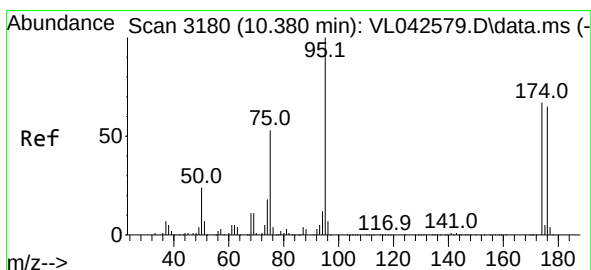
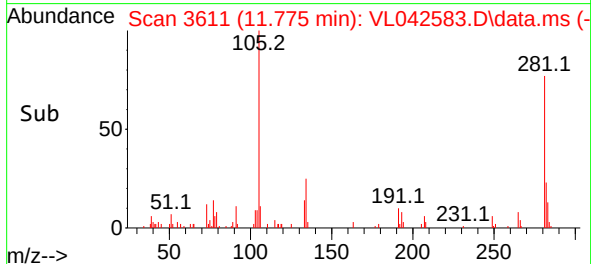
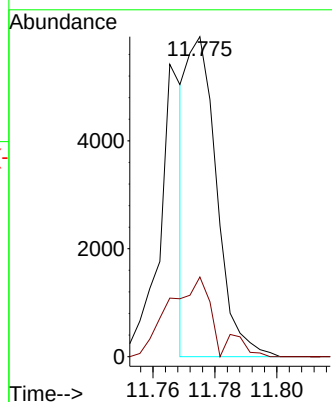
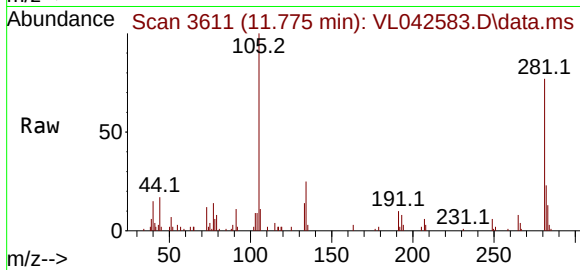
VSTDIC0.1

Tgt Ion:105 Resp: 3973

Ion Ratio Lower Upper

105 100

134 38.2 15.8 23.6#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.018 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. 0.000 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

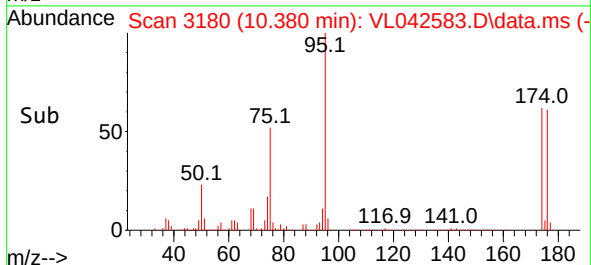
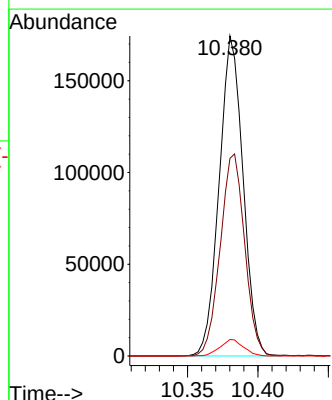
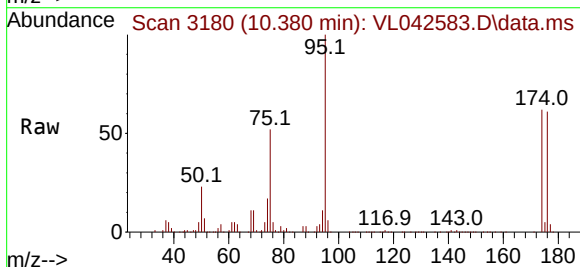
Tgt Ion: 95 Resp: 205672

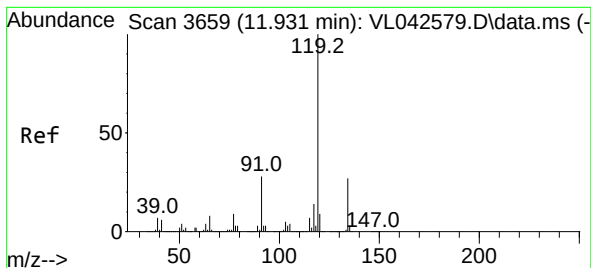
Ion Ratio Lower Upper

95 100

174 64.7 53.1 79.7

175 5.0 4.2 6.2





#69

p-Isopropyltoluene

Concen: 0.097 ppbv

RT: 11.934 min Scan# 3660

Delta R.T. 0.003 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

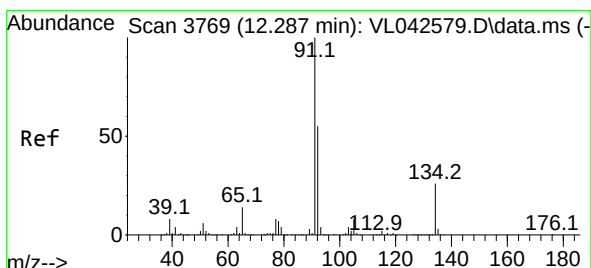
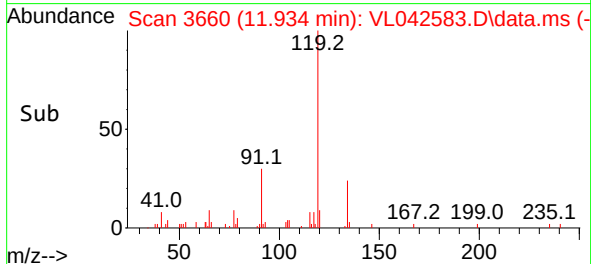
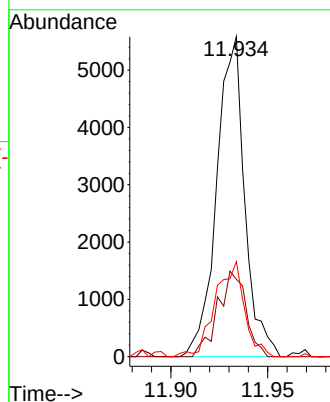
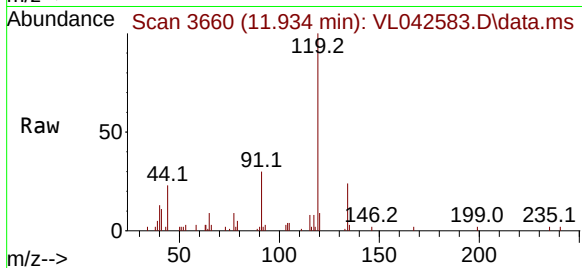
Tgt Ion:119 Resp: 5605

Ion Ratio Lower Upper

119 100

134 26.9 21.1 31.7

91 31.7 21.9 32.9



#70

n-Butylbenzene

Concen: 0.085 ppbv

RT: 12.287 min Scan# 3769

Delta R.T. 0.000 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

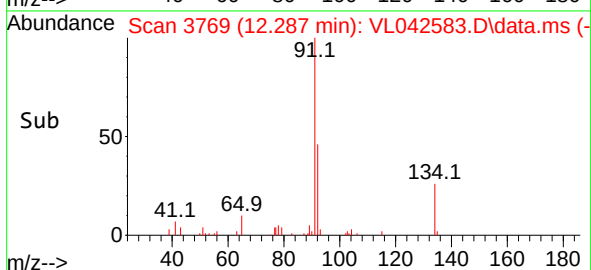
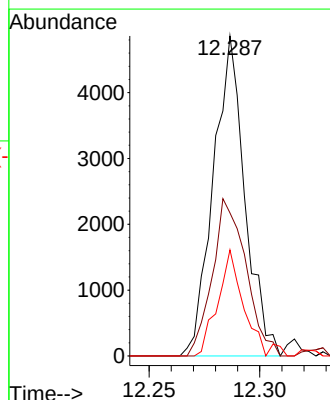
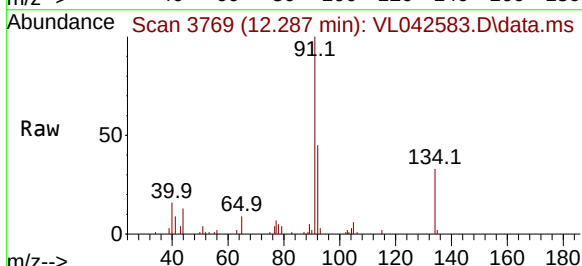
Tgt Ion: 91 Resp: 4829

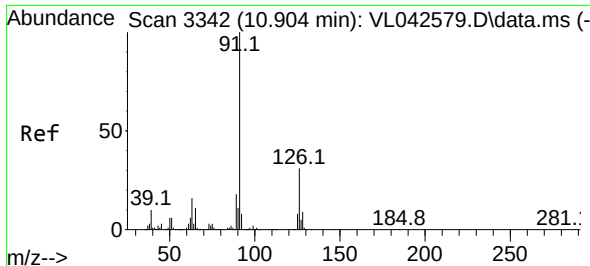
Ion Ratio Lower Upper

91 100

92 54.1 44.4 66.6

134 27.7 20.1 30.1

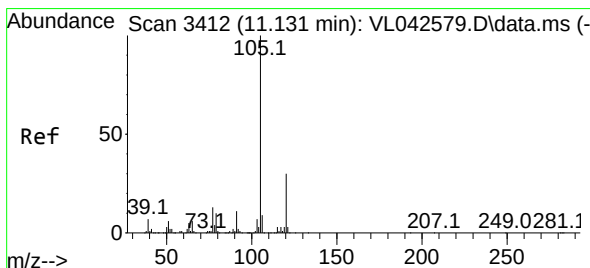
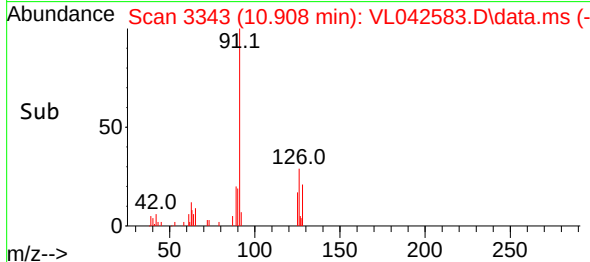
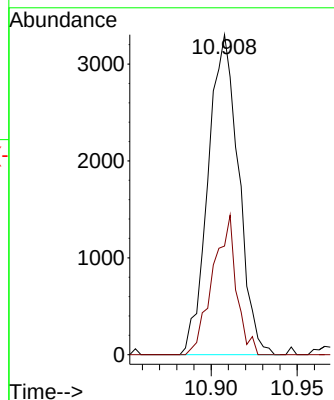
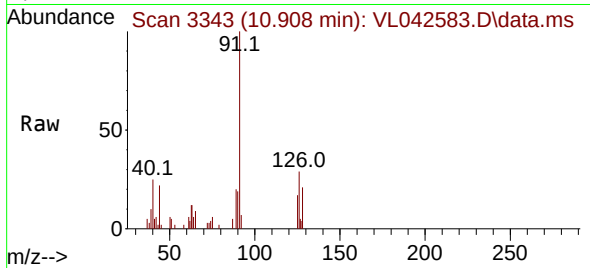




#71
2-Chlorotoluene
Concen: 0.099 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

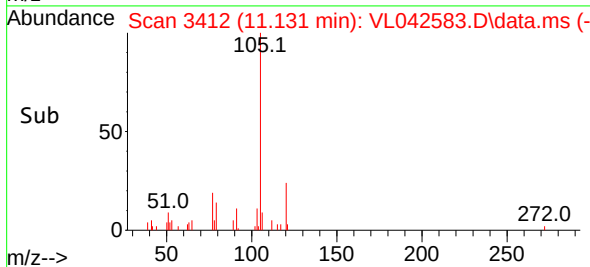
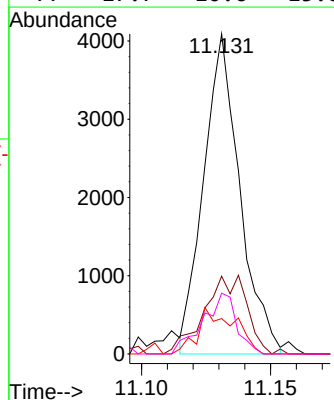
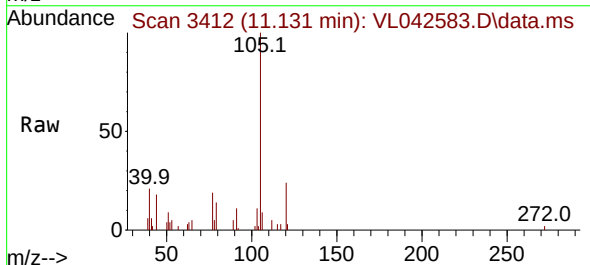
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

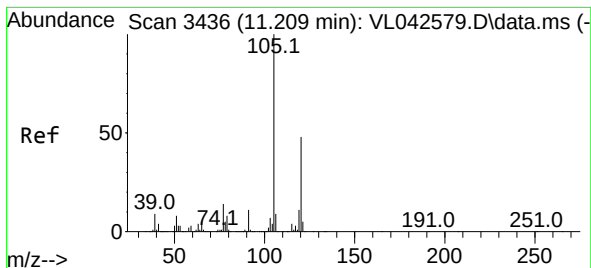
Tgt Ion: 91 Resp: 4065
Ion Ratio Lower Upper
91 100
126 33.8 12.6 50.4



#72
4-Ethyltoluene
Concen: 0.088 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion: 105 Resp: 3986
Ion Ratio Lower Upper
105 100
120 30.4 24.6 36.8
91 15.5 9.6 14.4#
77 17.7 10.6 15.8#





#73

1,3,5-Trimethylbenzene

Concen: 0.096 ppbv

RT: 11.206 min Scan# 3436

Delta R.T. -0.003 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

Instrument :

MSVOA_1

ClientSampleId :

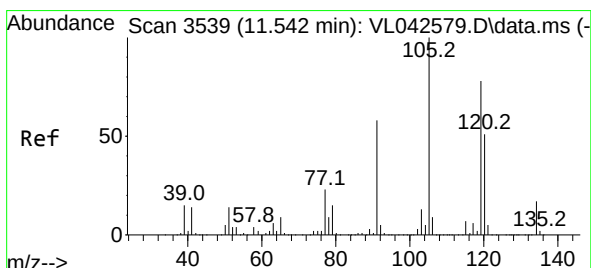
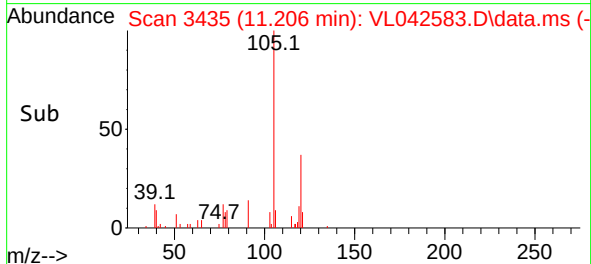
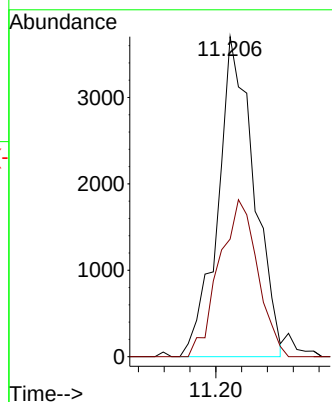
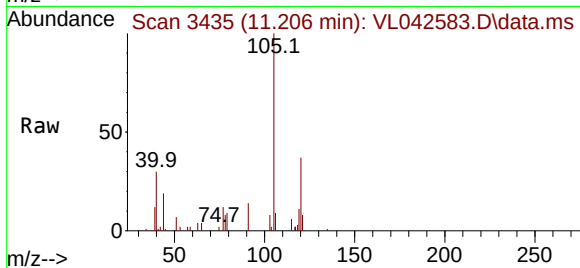
VSTDIC0.1

Tgt Ion:105 Resp: 3615

Ion Ratio Lower Upper

105 100

120 36.8 38.8 58.2#



#74

1,2,4-Trimethylbenzene

Concen: 0.103 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.000 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

Tgt Ion:105 Resp: 4287

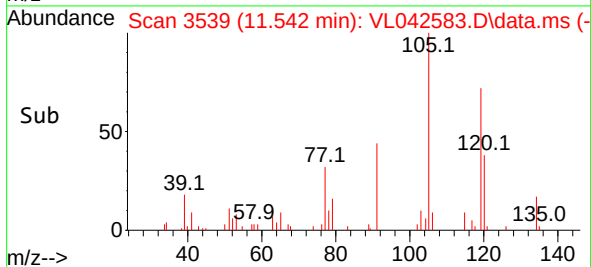
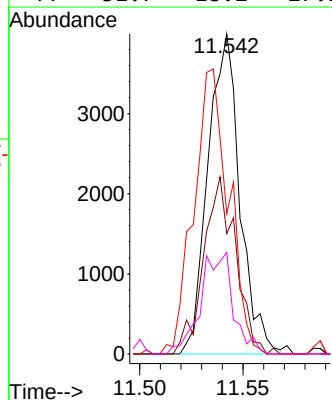
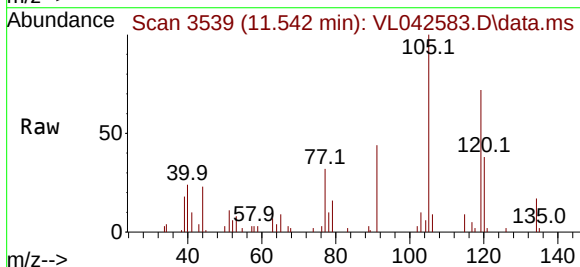
Ion Ratio Lower Upper

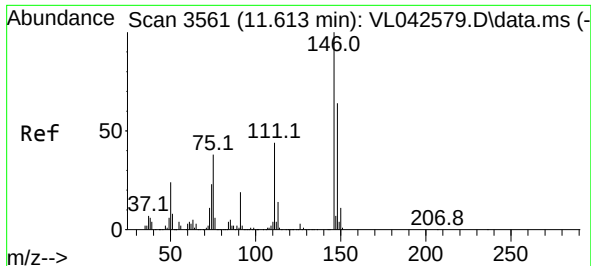
105 100

120 39.5 40.8 61.2#

91 43.8 46.8 70.2#

77 31.7 18.2 27.2#

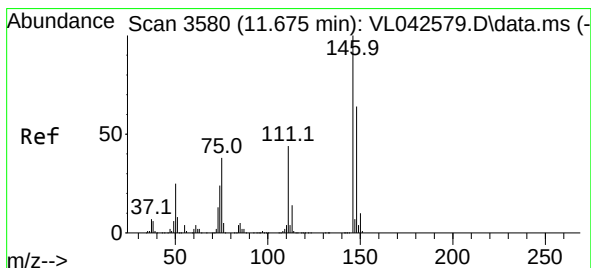
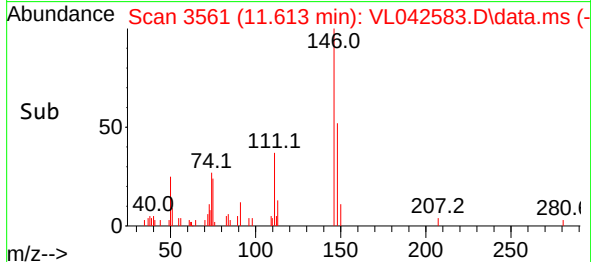
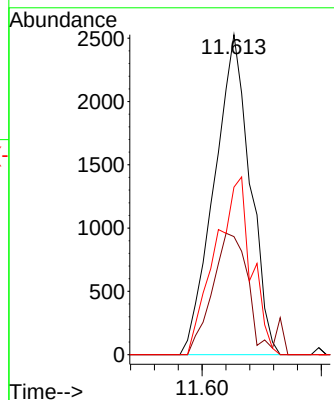
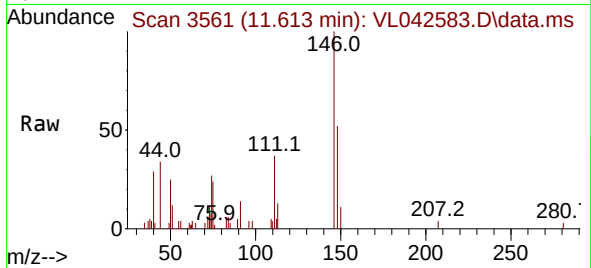




#75
1,3-Dichlorobenzene
Concen: 0.101 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

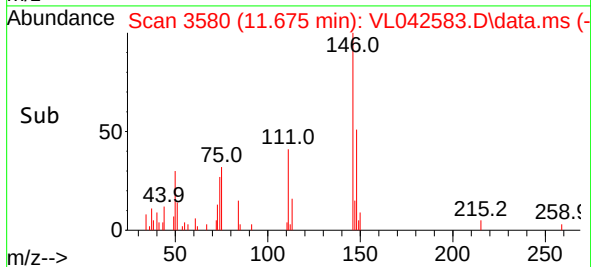
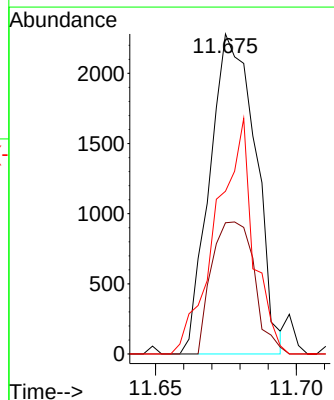
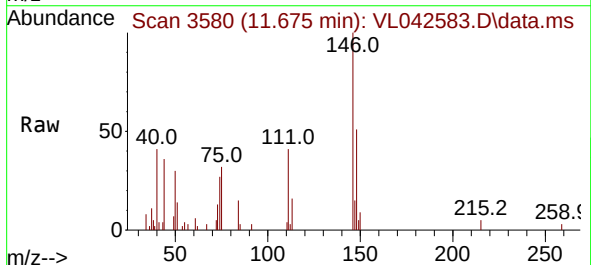
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

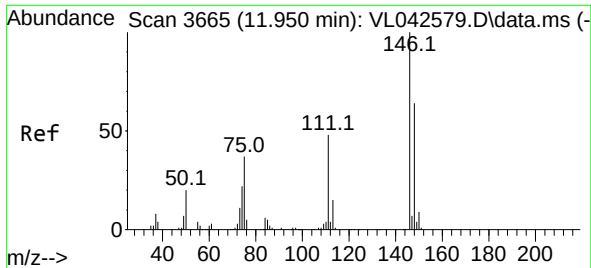
Tgt Ion:146 Resp: 2648
Ion Ratio Lower Upper
146 100
111 39.7 22.4 67.3
148 56.2 32.0 96.2



#76
1,4-Dichlorobenzene
Concen: 0.098 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.000 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion:146 Resp: 2574
Ion Ratio Lower Upper
146 100
111 38.5 21.6 64.8
148 60.0 32.1 96.5

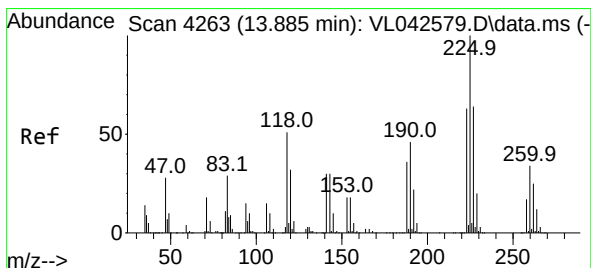
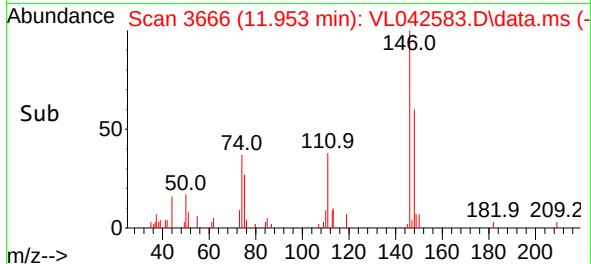
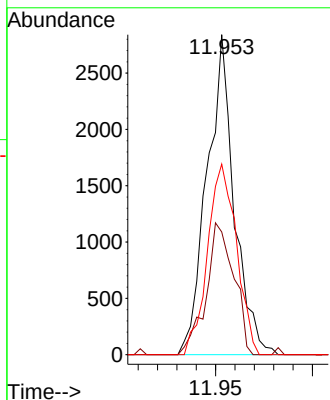
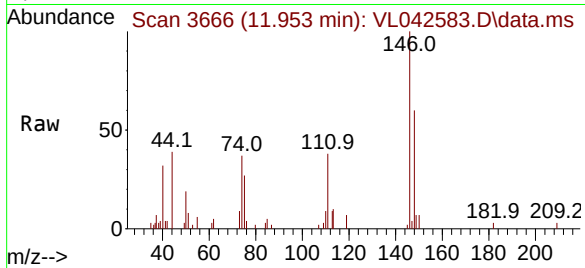




#77
1,2-Dichlorobenzene
Concen: 0.109 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.003 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

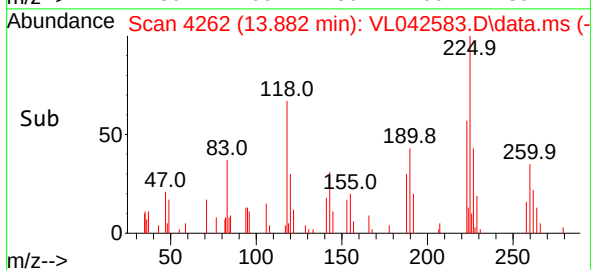
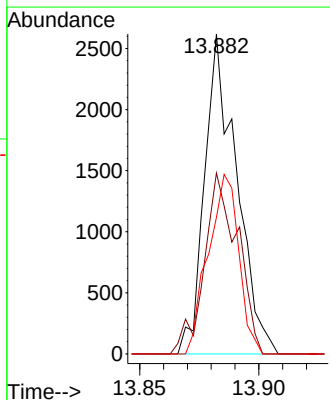
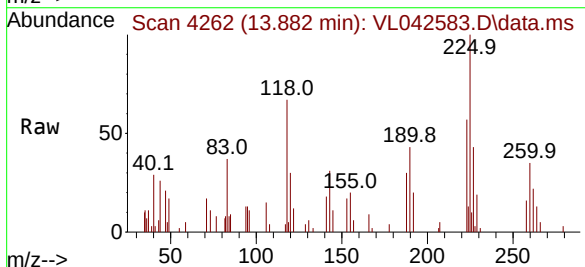
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

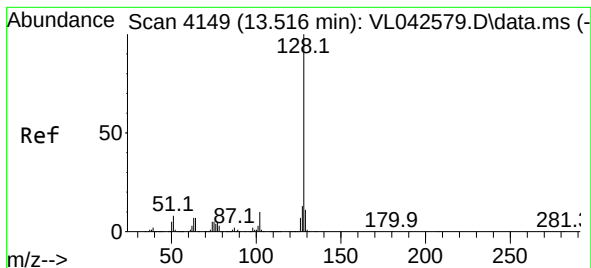
Tgt Ion:	146	Resp:	2775
Ion	Ratio	Lower	Upper
146	100		
111	42.5	23.1	69.3
148	63.3	32.1	96.3



#78
Hexachloro-1,3-Butadiene
Concen: 0.116 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.003 min
Lab File: VL042583.D
Acq: 29 May 2025 13:19

Tgt Ion:	225	Resp:	2440
Ion	Ratio	Lower	Upper
225	100		
223	59.2	50.2	75.4
227	53.6	51.1	76.7





#79

Naphthalene

Concen: 0.074 ppbv

RT: 13.523 min Scan# 4149

Delta R.T. 0.006 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

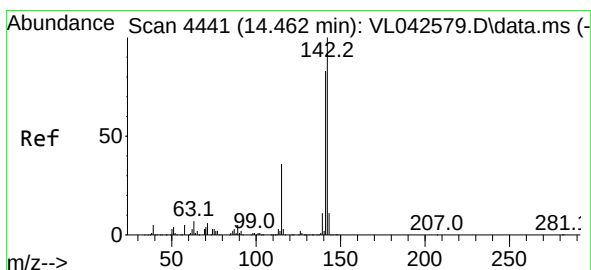
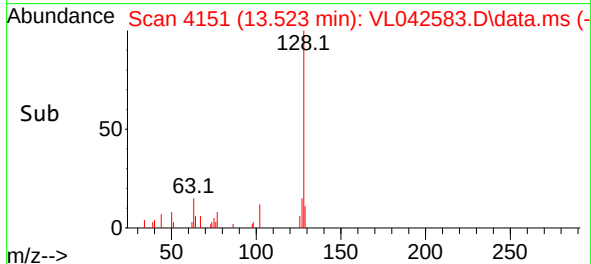
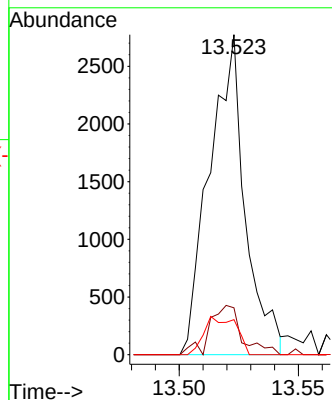
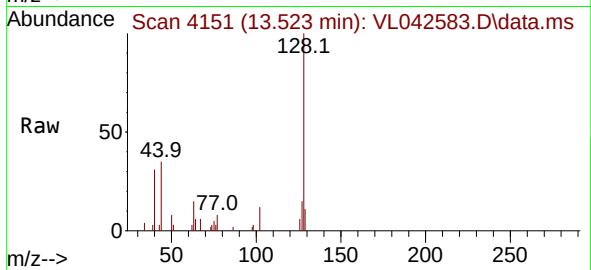
Tgt Ion:128 Resp: 2887

Ion Ratio Lower Upper

128 100

127 13.2 10.2 15.4

129 9.9 8.8 13.2



#80

Naphthalene,2-methyl-

Concen: 0.039 ppbv

RT: 14.481 min Scan# 4447

Delta R.T. 0.019 min

Lab File: VL042583.D

Acq: 29 May 2025 13:19

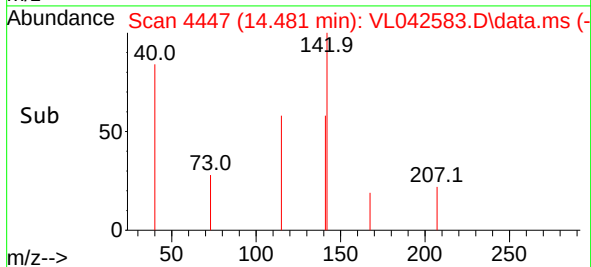
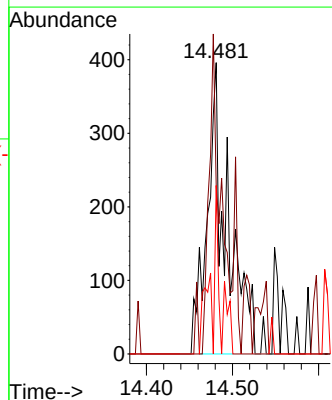
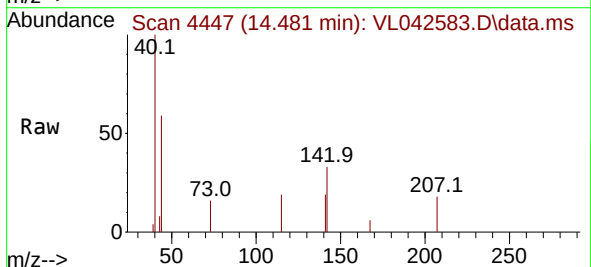
Tgt Ion:142 Resp: 688

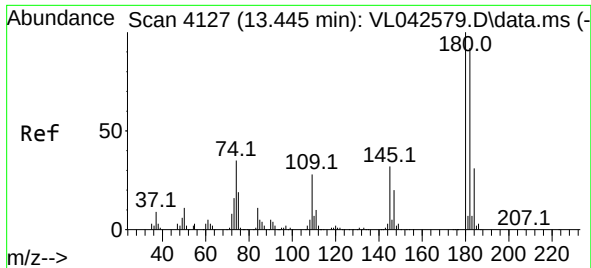
Ion Ratio Lower Upper

142 100

141 70.9 66.2 99.4

115 19.0 28.3 42.5#





#81

1,2,4-Trichlorobenzene

Concen: 0.050 ppbv

RT: 13.448 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042583.D

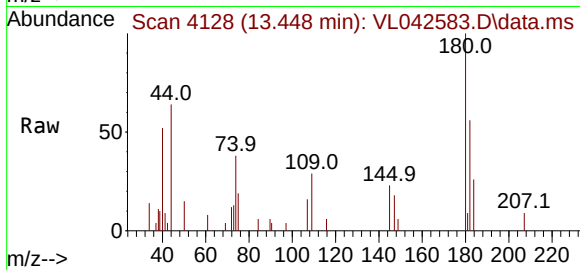
Acq: 29 May 2025 13:19

Instrument :

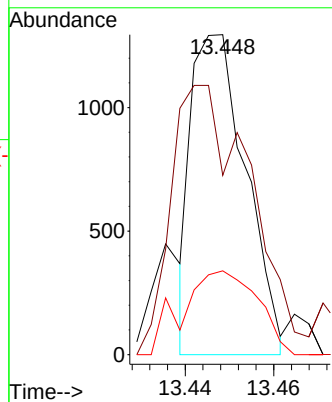
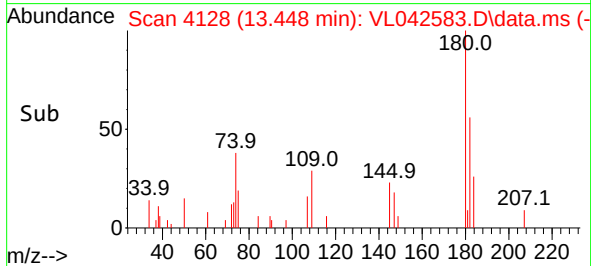
MSVOA_L

ClientSampleId :

VSTDIC0.1



Tgt Ion:	180	Resp:	1109
Ion	Ratio	Lower	Upper
180	100		
182	128.7	75.0	112.4#
184	36.1	24.6	36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042584.D
 Acq On : 29 May 2025 13:51
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: May 30 01:36:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103144	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	305114	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	273881	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	205981	10.033	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	367	0.029	ppbv	# 65
3) Chlorodifluoromethane	1.476	51	2721	0.156	ppbv	95
4) Chloromethane	1.538	50	54	0.011	ppbv	# 46
5) Vinyl Chloride	1.577	62	209	0.041	ppbv	# 77
6) Bromomethane	1.667	94	77	0.031	ppbv	# 77
7) Chloroethane	1.696	64	13	0.007	ppbv	# 44
8) Dichlorotetrafluoroethane	1.554	85	436	0.041	ppbv	# 66
9) Propene	1.036	41	83	0.012	ppbv	93
10) Heptane	4.985	43	312	0.016	ppbv	# 28
11) Trichlorofluoromethane	1.877	101	523	0.044	ppbv	84
12) 1,1,2-Trichlorotrifluo...	2.140	101	201	0.022	ppbv	# 33
13) Ethanol	1.797	45	178	0.227	ppbv	# 39
14) Bromoethene	1.780	108	172	0.049	ppbv	# 41
15) Acetone	1.839	43	1444	0.116	ppbv	99
16) 1,3-Butadiene	1.615	39	159	0.027	ppbv	# 1
17) tert-Butyl alcohol	2.049	59	560	0.043	ppbv	# 1
18) 1,1-Dichloroethene	2.036	96	125	0.029	ppbv	82
19) Isopropyl Alcohol	1.887	45	503	0.068	ppbv	# 68
20) Methylene Chloride	2.062	84	848	0.207	ppbv	# 86
21) Allyl Chloride	2.098	41	304	0.035	ppbv	# 1
22) trans-1,2-Dichloroethene	2.350	96	58	0.012	ppbv	87
23) Vinyl Acetate	2.467	43	1120	0.067	ppbv	# 1
24) 1,1-Dichloroethane	2.415	63	424	0.043	ppbv	# 88
25) Ethyl Acetate	2.839	43	380	0.011	ppbv	# 75
26) Hexane	2.832	57	172	0.011	ppbv	# 1
27) Carbon Disulfide	2.153	76	340	0.029	ppbv	# 1
28) Methyl tert-Butyl Ether	2.450	73	116	0.019	ppbv	# 1
29) Chloroform	2.849	83	577	0.029	ppbv	92
30) Cyclohexane	3.862	84	220	0.017	ppbv	# 1
31) cis-1,2-Dichloroethene	2.722	61	424	0.030	ppbv	# 70
32) 1,1,1-Trichloroethane	3.366	97	255	0.013	ppbv	# 1
34) 2-Butanone	2.564	43	1204	0.055	ppbv	# 86
35) Carbon Tetrachloride	3.764	117	442	0.022	ppbv	# 78
36) Benzene	3.664	78	641	0.021	ppbv	# 76
37) 1,2-Dichloroethane	3.217	62	253	0.017	ppbv	# 78
38) Trichloroethene	4.551	130	77	0.006	ppbv	# 40
39) 1,2-Dichloropropane	3.962	63	72547	6.532	ppbv	# 22
40) 1,4-Dioxane	4.619	88	25	0.005	ppbv	# 1
41) Tetrahydrofuran	3.065	42	84	0.007	ppbv	# 39
42) Bromodichloromethane	4.499	83	434	0.020	ppbv	# 67
43) Methyl Methacrylate	4.888	69	182	0.016	ppbv	# 30
44) 2,2,4-Trimethylpentane	4.648	57	596	0.012	ppbv	# 42
45) t-1,3-Dichloropropene	6.422	75	196	0.015	ppbv	91

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 Data File : VL042584.D
 Acq On : 29 May 2025 13:51
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

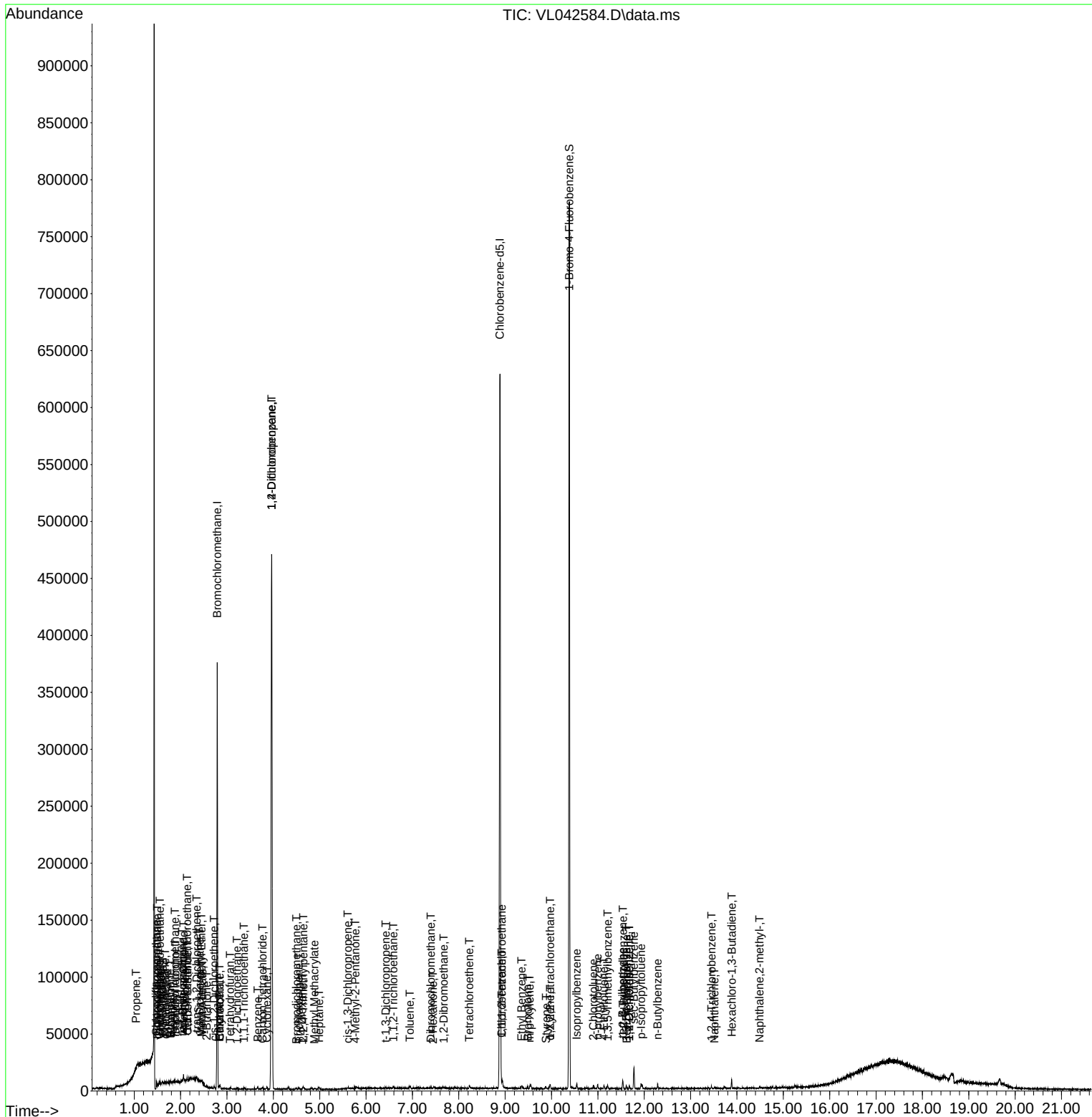
Instrument :
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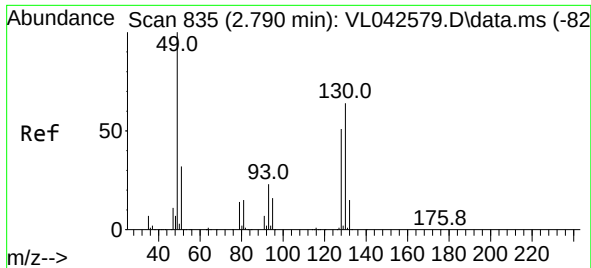
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	5.606	75	139	0.008	ppbv	#	67
47) 1,1,2-Trichloroethane	6.587	97	192	0.017	ppbv	#	73
48) Dibromochloromethane	7.396	129	318	0.017	ppbv	#	34
49) Bromoform	9.487	173	353	0.022	ppbv	#	58
50) 4-Methyl-2-Pentanone	5.768	43	81	0.003	ppbv	#	39
51) 2-Hexanone	7.441	43	78	0.003	ppbv	#	28
52) Tetrachloroethene	8.228	164	227	0.020	ppbv	#	28
53) Toluene	6.946	91	372	0.011	ppbv	#	1
54) 1,2-Dibromoethane	7.678	107	104	0.006	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.927	131	451	0.033	ppbv	#	23
57) Chlorobenzene	8.927	112	585	0.022	ppbv	#	90
58) Ethyl Benzene	9.354	91	866	0.019	ppbv		89
59) m/p-Xylene	9.529	91	382	0.010	ppbv	#	29
60) o-Xylene	9.972	91	1125	0.031	ppbv		93
61) Styrene	9.885	104	201	0.012	ppbv	#	6
62) Isopropylbenzene	10.542	105	1842	0.034	ppbv	#	86
63) 1,1,2,2-Tetrachloroethane	9.969	83	866	0.037	ppbv	#	82
64) n-propylbenzene	10.998	120	391	0.027	ppbv		74
65) tert-Butylbenzene	11.529	119	1766	0.036	ppbv		87
66) Benzyl Chloride	11.626	91	93	0.015	ppbv	#	64
67) sec-Butylbenzene	11.775	105	2082	0.030	ppbv	#	78
69) p-Isopropyltoluene	11.931	119	1598	0.028	ppbv		96
70) n-Butylbenzene	12.287	91	1095	0.019	ppbv	#	79
71) 2-Chlorotoluene	10.901	91	827	0.020	ppbv	#	43
72) 4-Ethyltoluene	11.131	105	1671	0.037	ppbv	#	84
73) 1,3,5-Trimethylbenzene	11.212	105	1177	0.031	ppbv		89
74) 1,2,4-Trimethylbenzene	11.542	105	1387	0.033	ppbv		96
75) 1,3-Dichlorobenzene	11.613	146	843	0.032	ppbv		90
76) 1,4-Dichlorobenzene	11.678	146	538	0.021	ppbv		70
77) 1,2-Dichlorobenzene	11.678	146	538	0.021	ppbv		72
78) Hexachloro-1,3-Butadiene	13.889	225	756	0.036	ppbv	#	84
79) Naphthalene	13.513	128	214	0.005	ppbv	#	69
80) Naphthalene,2-methyl-	14.487	142	210	0.012	ppbv	#	62
81) 1,2,4-Trichlorobenzene	13.448	180	350	0.016	ppbv	#	93

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

Quant Time: May 30 01:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
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QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

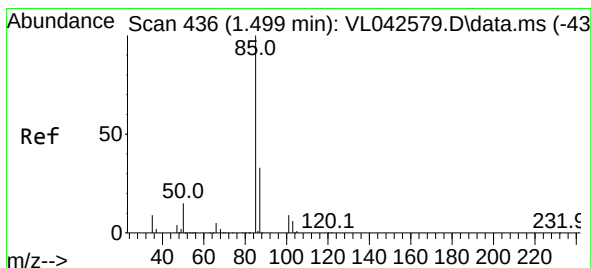
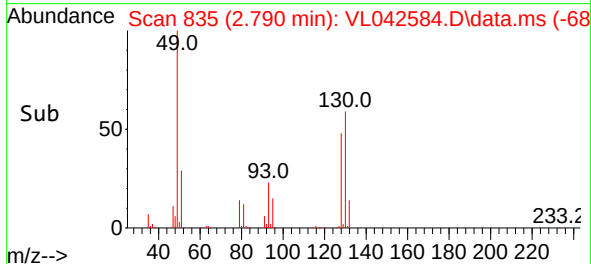
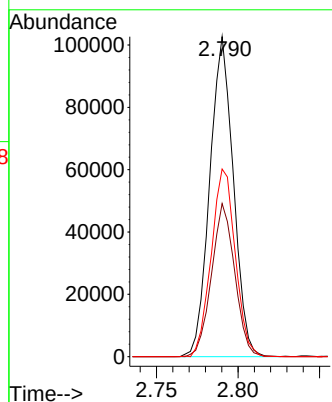
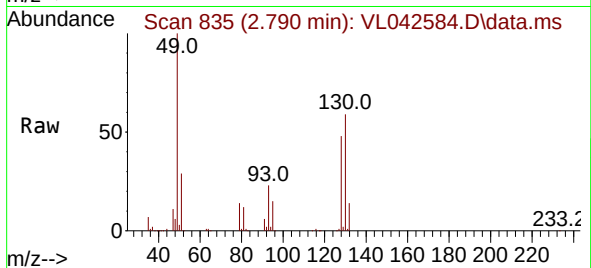




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

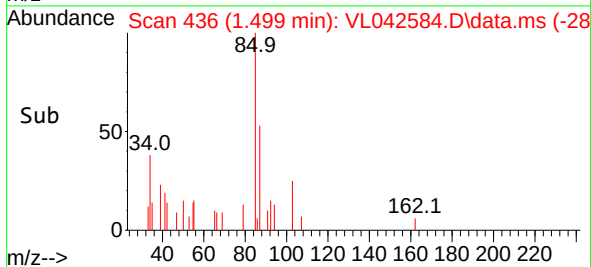
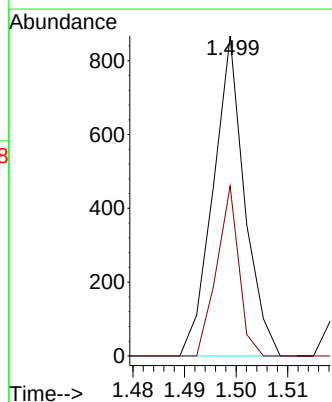
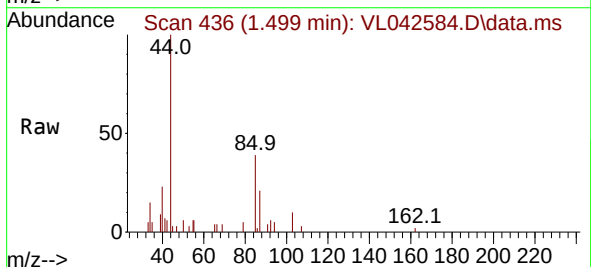
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ClientSampleId :
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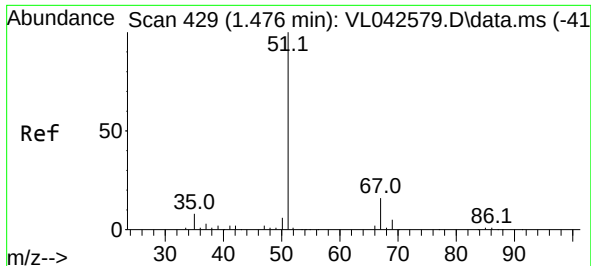
Tgt Ion: 49 Resp: 103144
Ion Ratio Lower Upper
49 100
128 47.0 24.2 72.6
130 60.0 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 0.029 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion: 85 Resp: 367
Ion Ratio Lower Upper
85 100
87 53.2 26.6 39.8

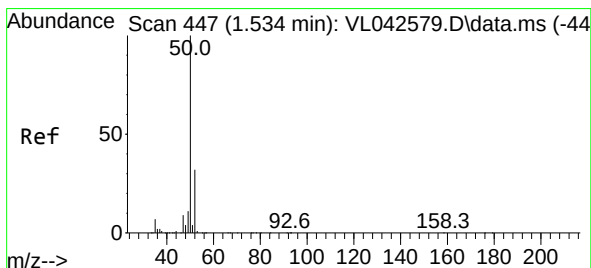
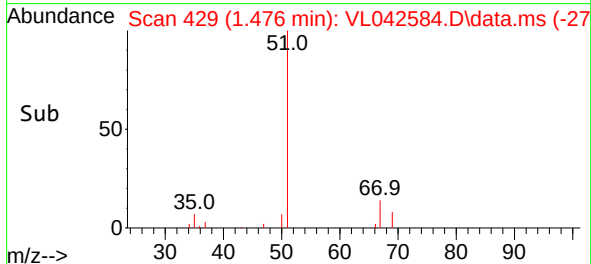
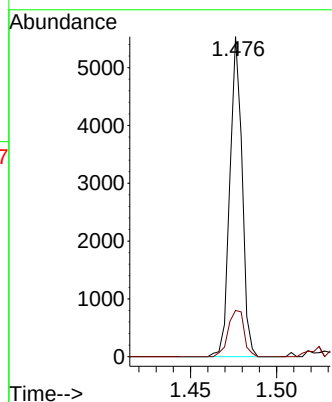
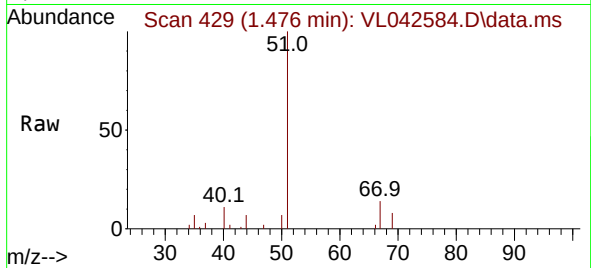




#3
Chlorodifluoromethane
Concen: 0.156 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

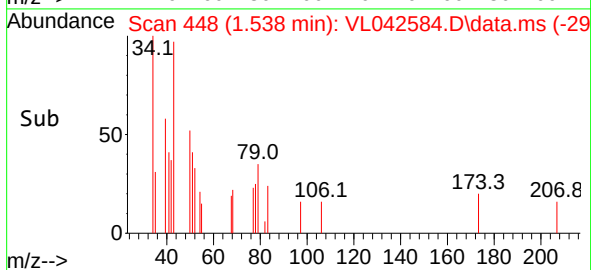
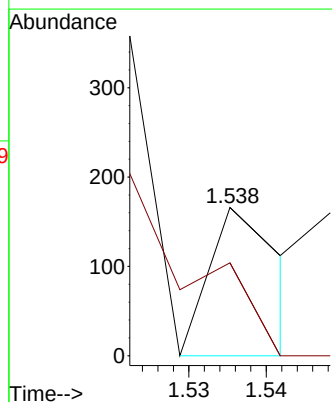
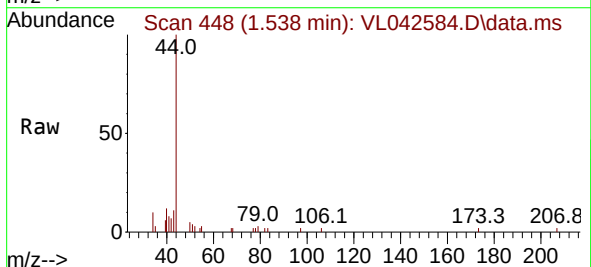
Instrument :
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ClientSampleId :
VSTDICC0.03

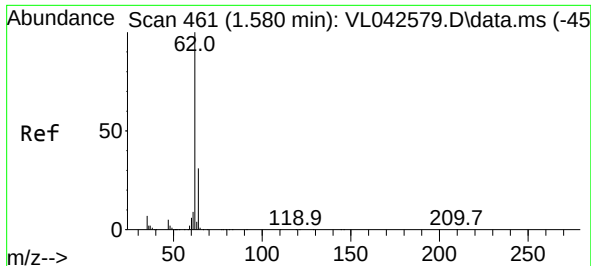
Tgt Ion: 51 Resp: 2721
Ion Ratio Lower Upper
51 100
67 18.9 13.4 20.2



#4
Chloromethane
Concen: 0.011 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion: 50 Resp: 54
Ion Ratio Lower Upper
50 100
52 62.7 25.8 38.6#

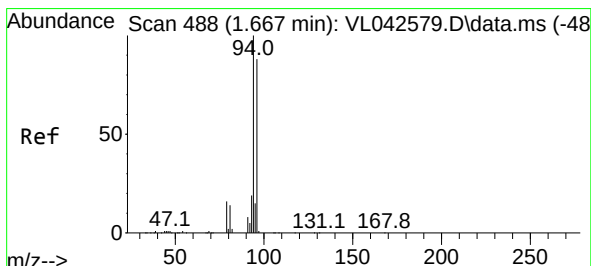
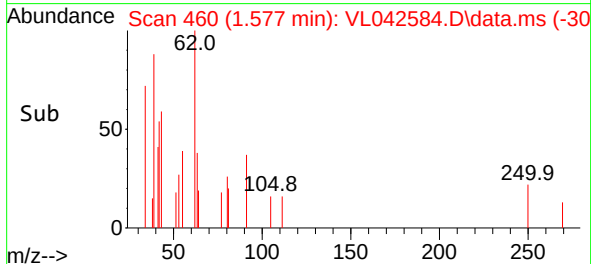
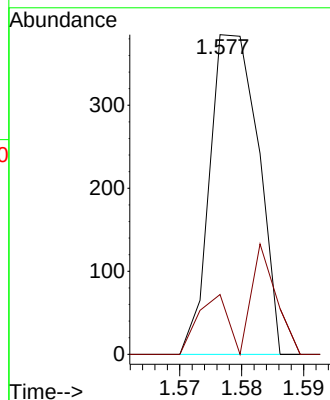
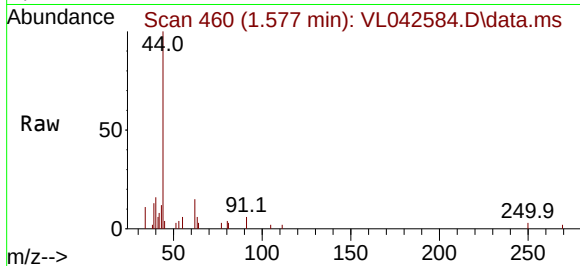




#5
 Vinyl Chloride
 Concen: 0.041 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

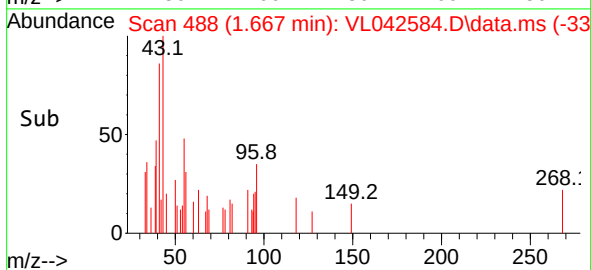
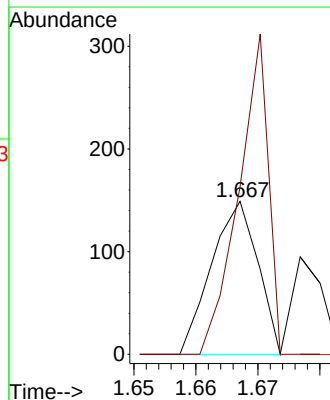
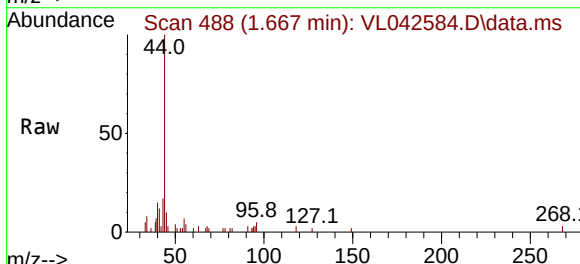
Instrument :
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 ClientSampleId :
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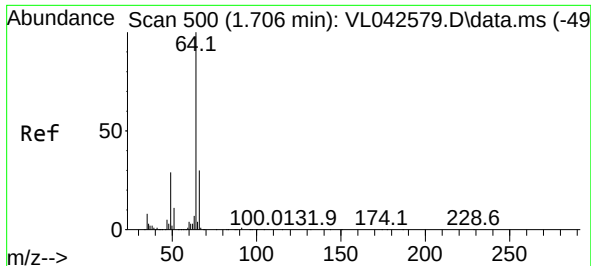
Tgt Ion: 62 Resp: 209
 Ion Ratio Lower Upper
 62 100
 64 18.7 24.9 37.3#



#6
 Bromomethane
 Concen: 0.031 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

Tgt Ion: 94 Resp: 77
 Ion Ratio Lower Upper
 94 100
 96 109.4 70.7 106.1#

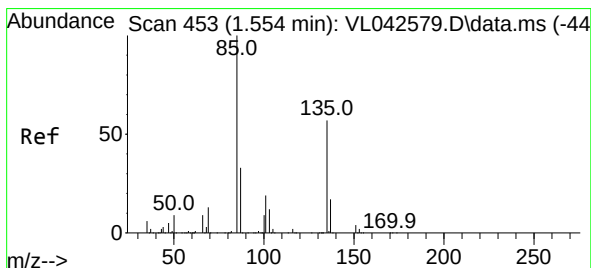
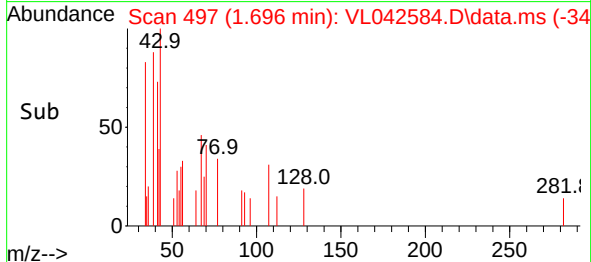
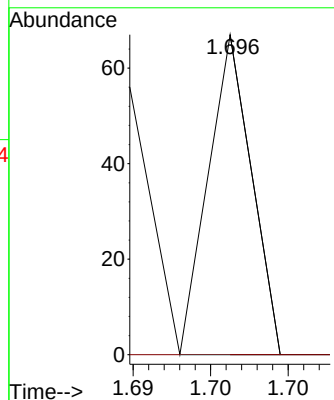
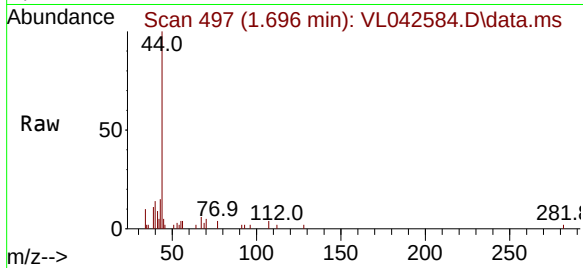




#7
Chloroethane
Concen: 0.007 ppbv
RT: 1.696 min Scan# 497
Delta R.T. -0.010 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

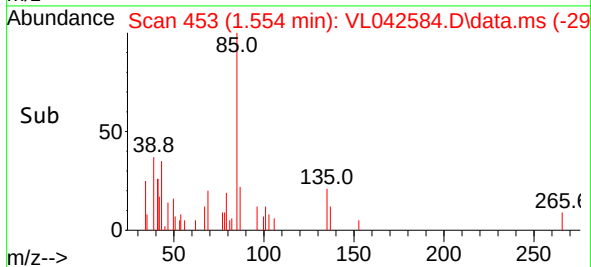
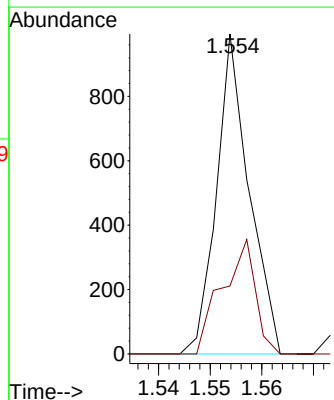
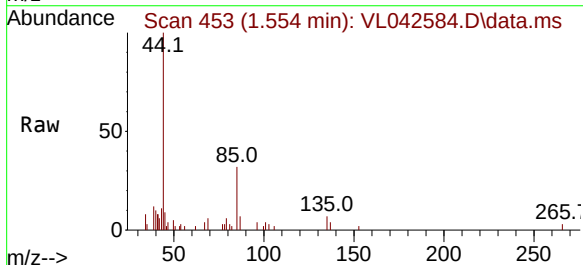
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

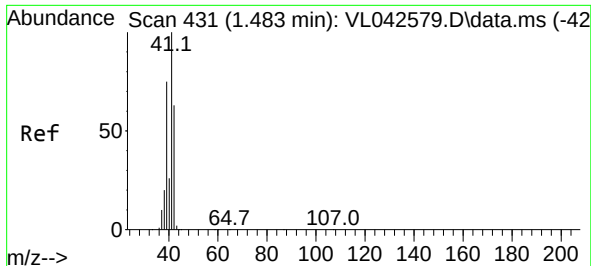
Tgt Ion: 64 Resp: 13
Ion Ratio Lower Upper
64 100
66 0.0 24.3 36.5#



#8
Dichlorotetrafluoroethane
Concen: 0.041 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion: 85 Resp: 436
Ion Ratio Lower Upper
85 100
135 36.5 50.2 75.4#

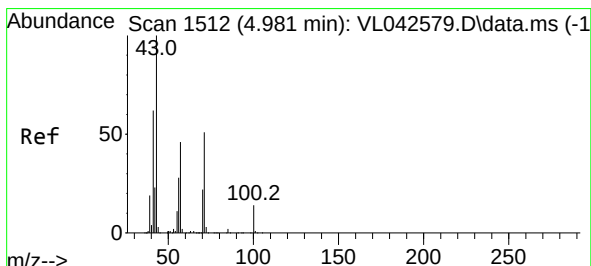
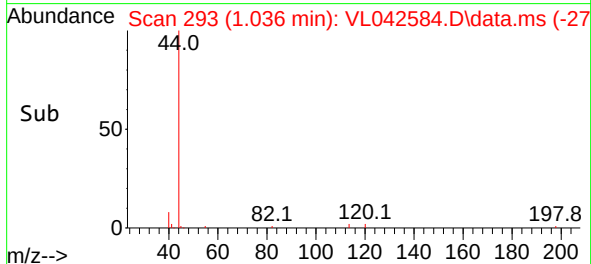
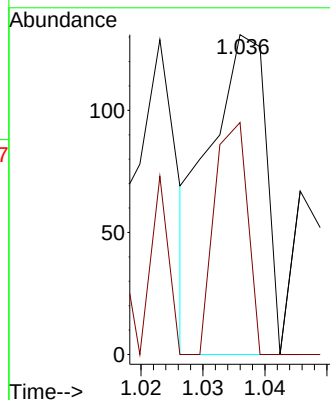
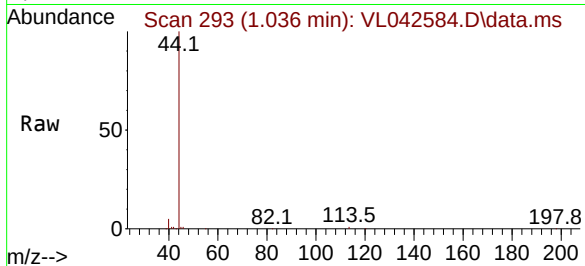




#9
 Propene
 Concen: 0.012 ppbv
 RT: 1.036 min Scan# 29
 Delta R.T. -0.447 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

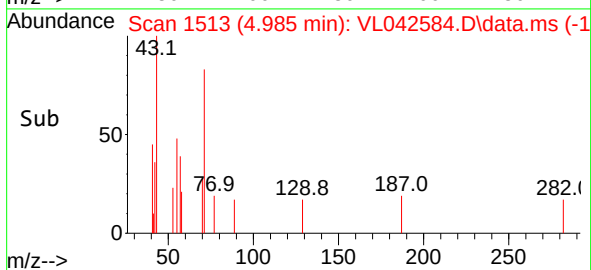
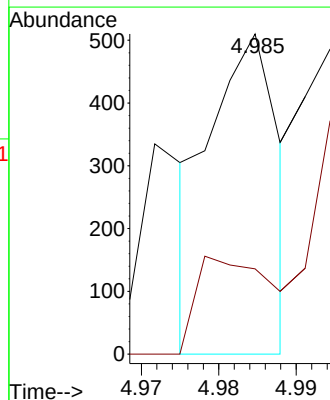
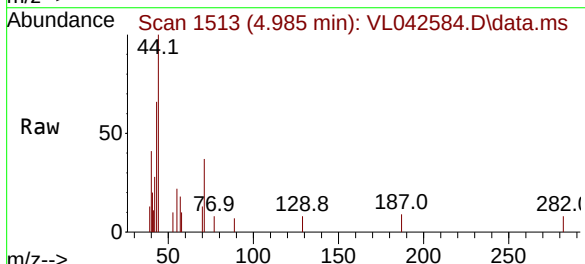
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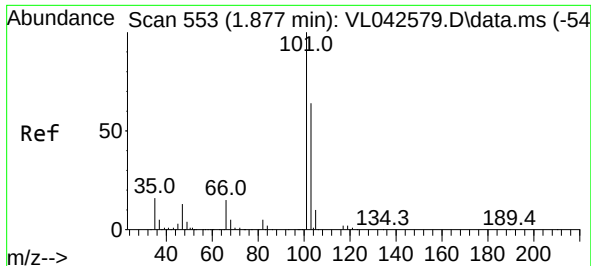
Tgt Ion: 41 Resp: 83
 Ion Ratio Lower Upper
 41 100
 42 72.3 53.3 79.9



#10
 Heptane
 Concen: 0.016 ppbv
 RT: 4.985 min Scan# 1513
 Delta R.T. 0.003 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

Tgt Ion: 43 Resp: 312
 Ion Ratio Lower Upper
 43 100
 57 0.0 38.9 58.3#

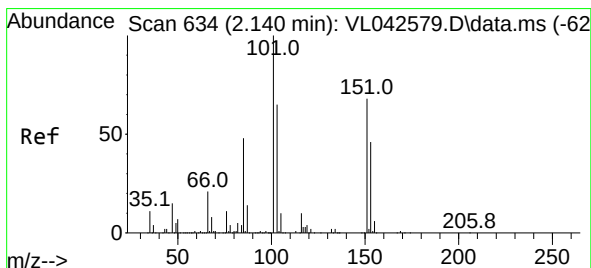
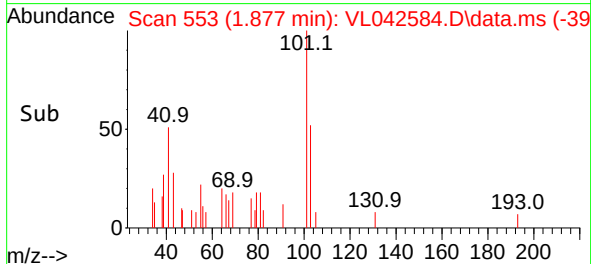
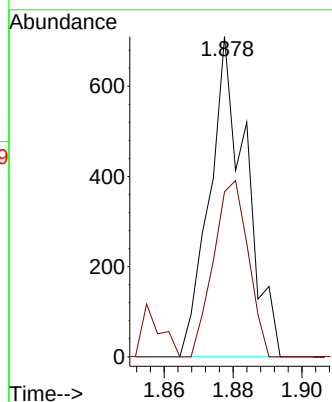
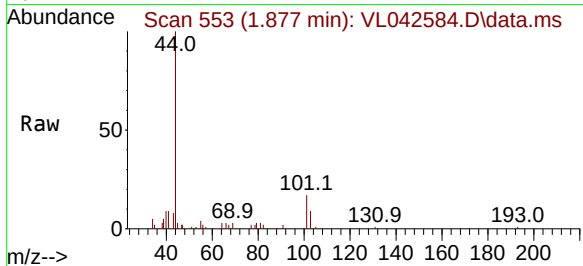




#11
 Trichlorofluoromethane
 Concen: 0.044 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

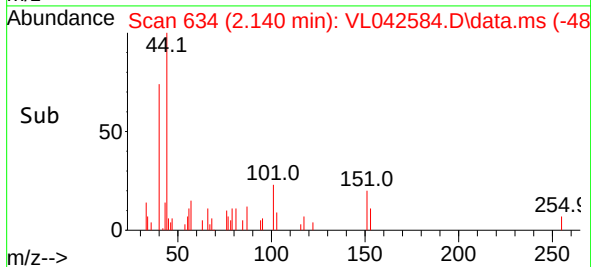
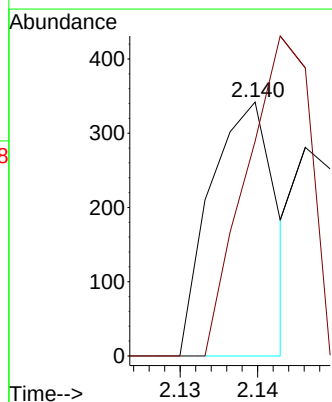
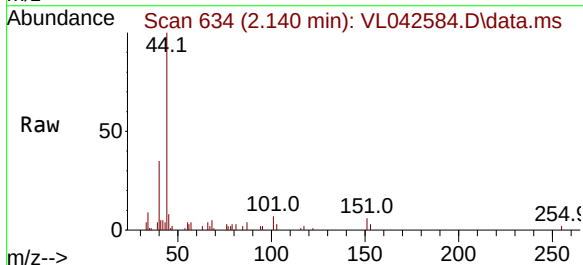
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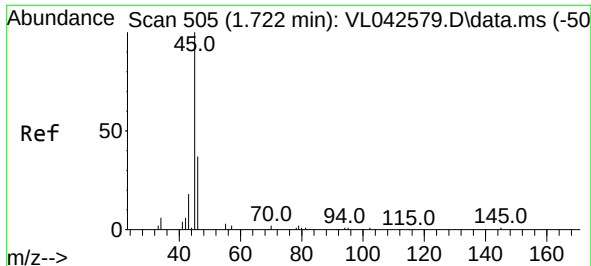
Tgt Ion:101 Resp: 523
 Ion Ratio Lower Upper
 101 100
 103 51.5 51.5 77.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.022 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.000 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

Tgt Ion:101 Resp: 201
 Ion Ratio Lower Upper
 101 100
 151 123.4 55.3 82.9#

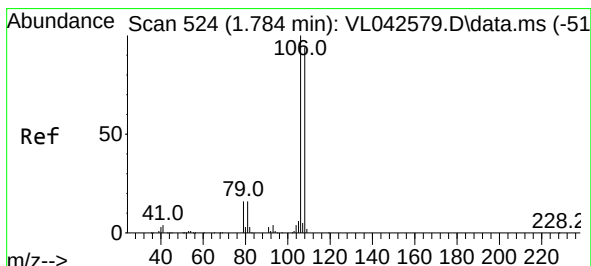
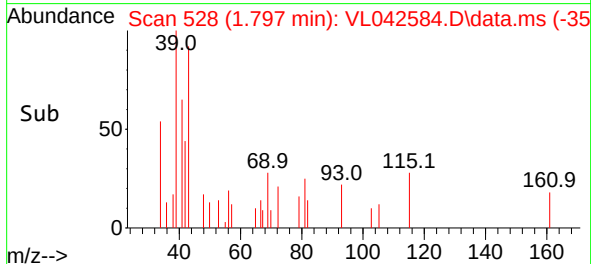
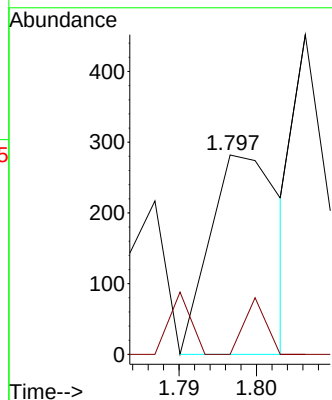
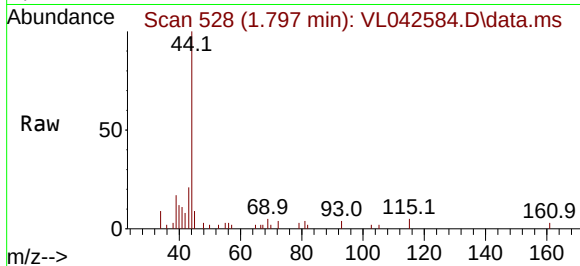




#13
Ethanol
Concen: 0.227 ppbv
RT: 1.797 min Scan# 51
Delta R.T. 0.074 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

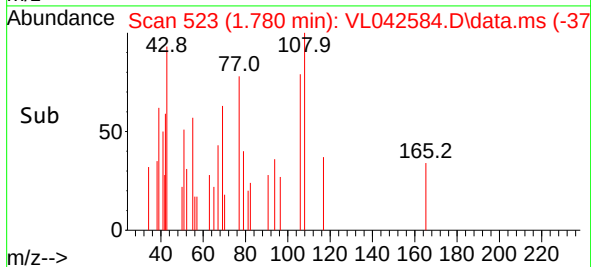
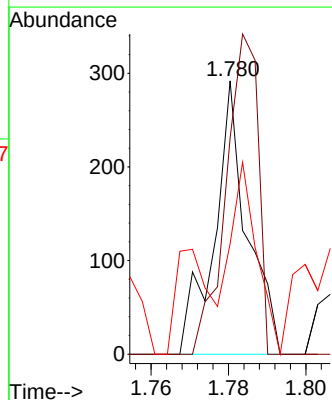
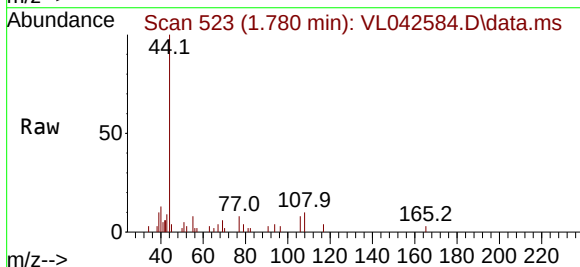
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VSTDIC0.03

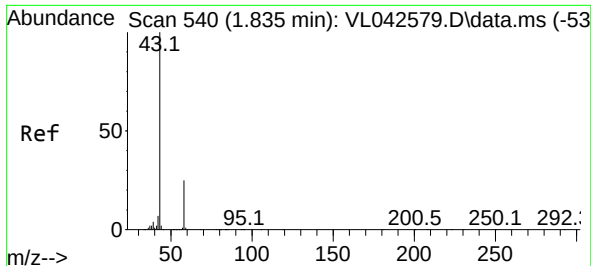
Tgt Ion: 45 Resp: 178
Ion Ratio Lower Upper
45 100
46 0.0 14.5 58.1#



#14
Bromoethene
Concen: 0.049 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion: 108 Resp: 172
Ion Ratio Lower Upper
108 100
106 114.5 87.9 131.9
79 185.5 15.6 23.4#

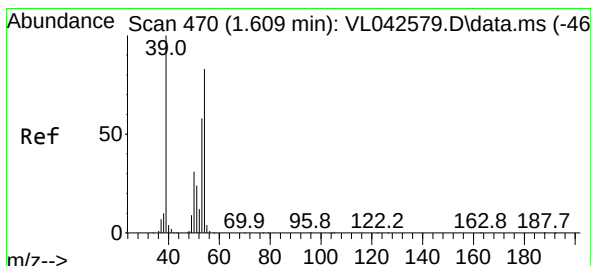
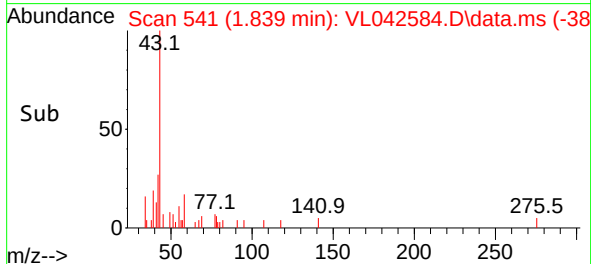
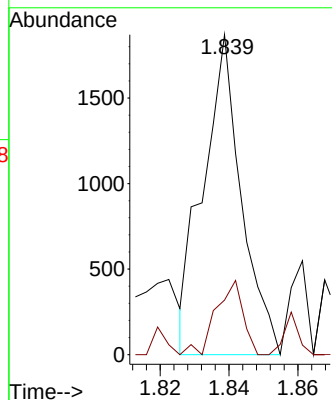
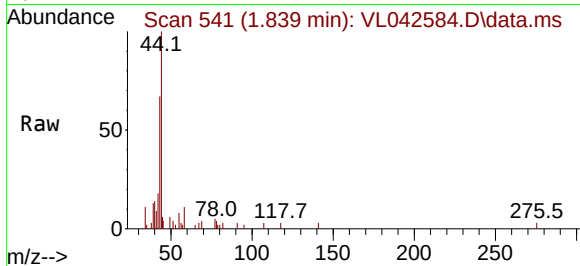




#15
Acetone
Concen: 0.116 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

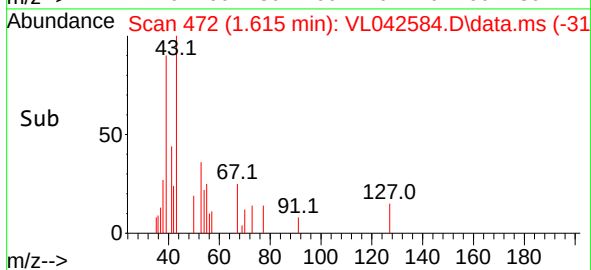
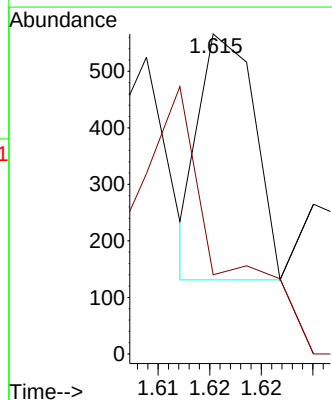
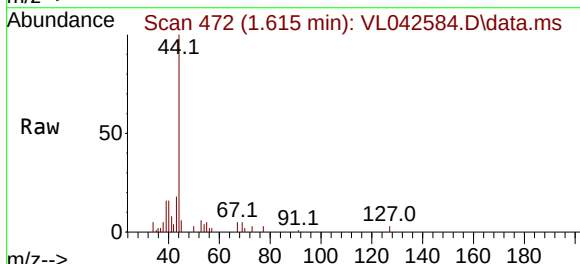
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

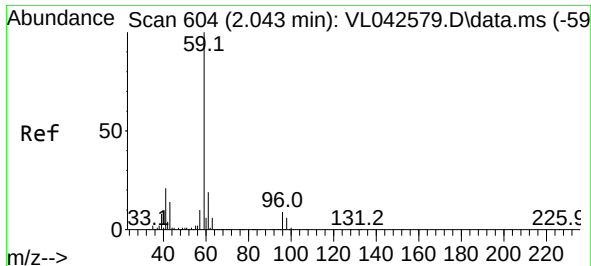
Tgt Ion: 43 Resp: 1444
Ion Ratio Lower Upper
43 100
58 25.9 21.0 31.4



#16
1,3-Butadiene
Concen: 0.027 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.006 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion: 39 Resp: 159
Ion Ratio Lower Upper
39 100
54 252.2 57.9 86.9#





#17

tert-Butyl alcohol

Concen: 0.043 ppbv

RT: 2.049 min Scan# 604

Delta R.T. 0.006 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

Instrument :

MSVOA_L

ClientSampleId :

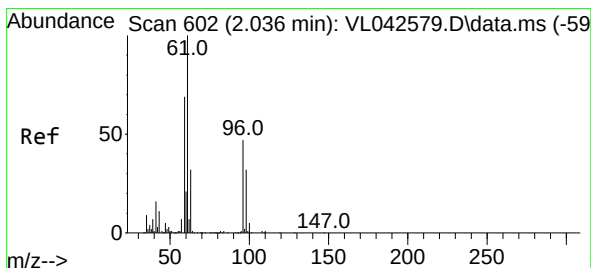
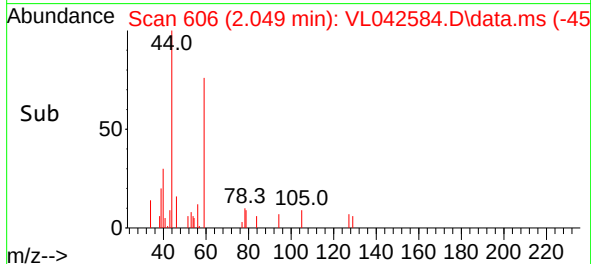
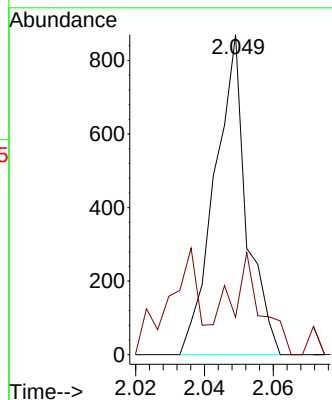
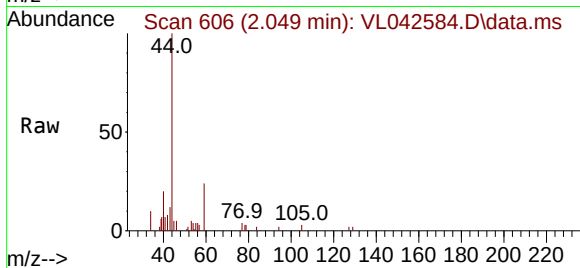
VSTDICC0.03

Tgt Ion: 59 Resp: 560

Ion Ratio Lower Upper

59 100

57 66.8 8.6 12.8#



#18

1,1-Dichloroethene

Concen: 0.029 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

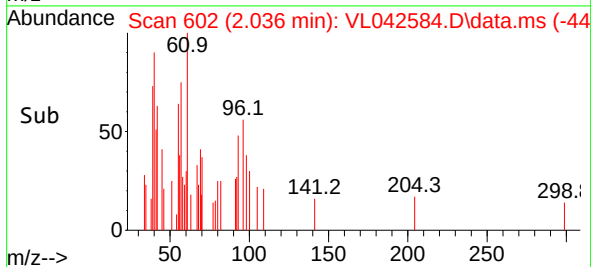
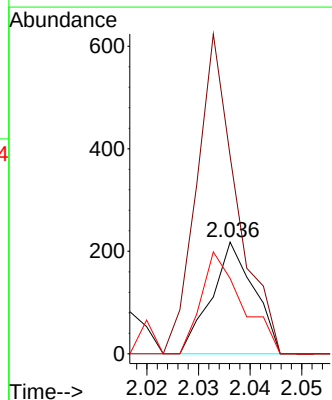
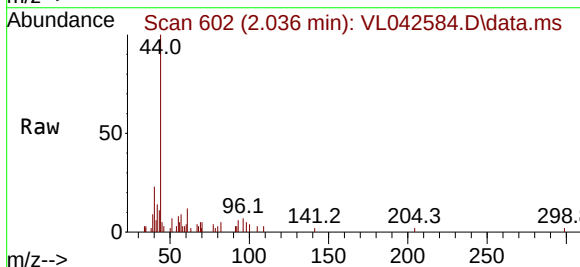
Tgt Ion: 96 Resp: 125

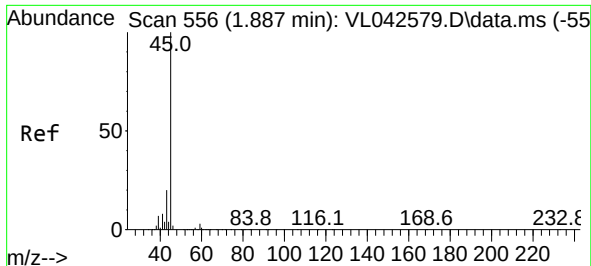
Ion Ratio Lower Upper

96 100

61 177.1 171.1 256.7

98 67.4 54.4 81.6

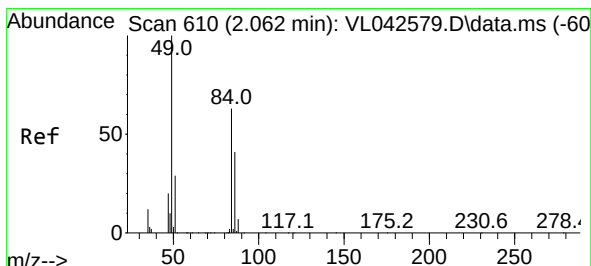
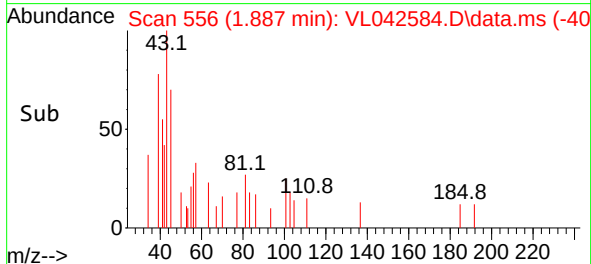
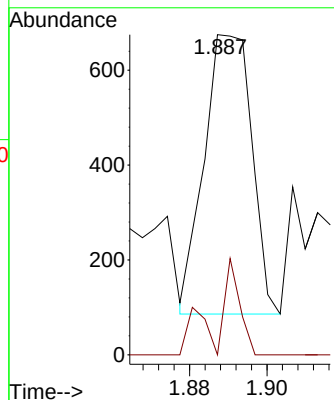
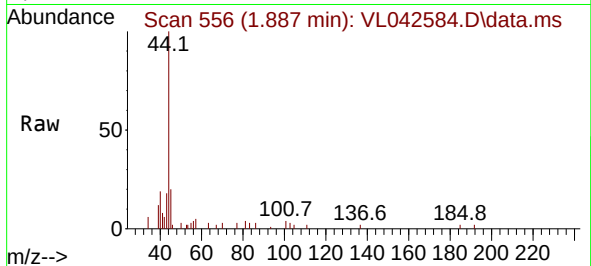




#19
Isopropyl Alcohol
Concen: 0.068 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

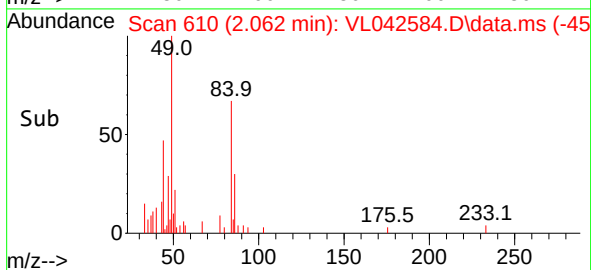
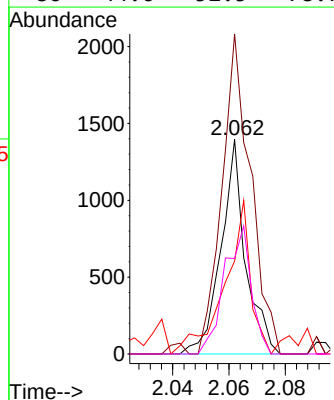
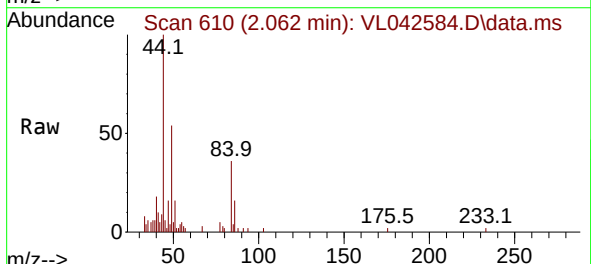
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.03

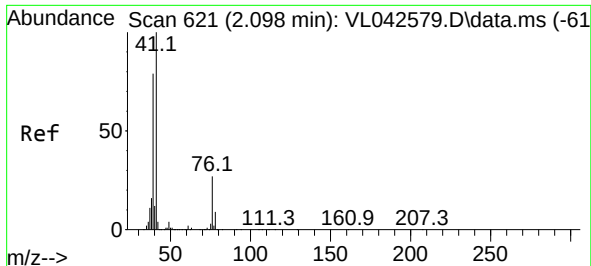
Tgt Ion: 45 Resp: 503
Ion Ratio Lower Upper
45 100
58 17.7 29.4 44.2#



#20
Methylene Chloride
Concen: 0.207 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion: 84 Resp: 848
Ion Ratio Lower Upper
84 100
49 149.1 128.8 193.2
51 39.4 38.6 57.8
86 44.6 52.5 78.7#

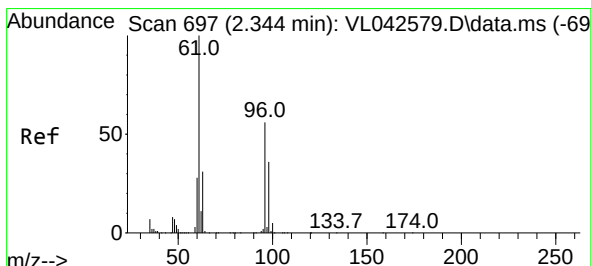
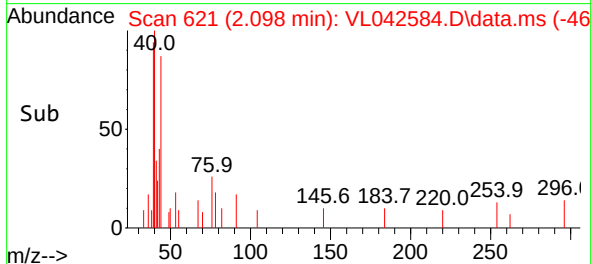
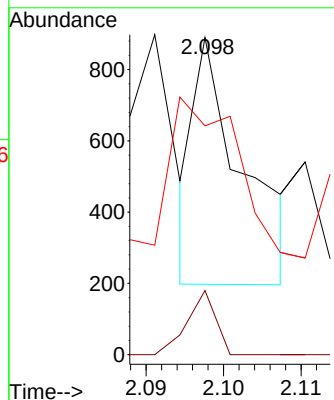
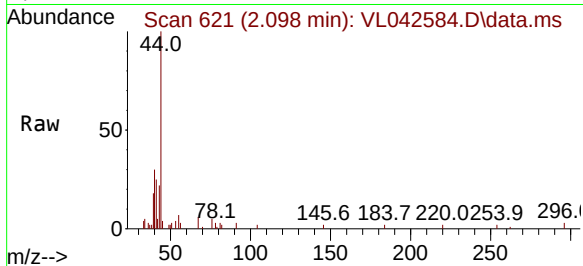




#21
 Allyl Chloride
 Concen: 0.035 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

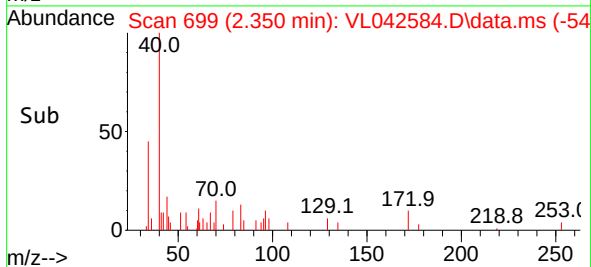
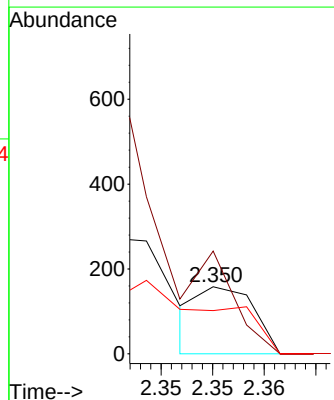
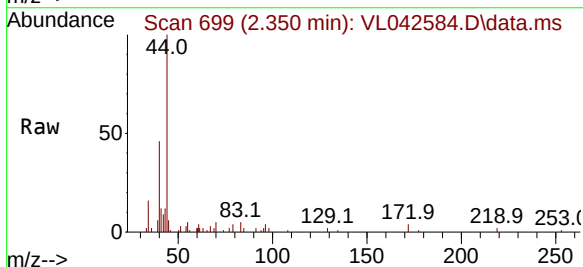
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

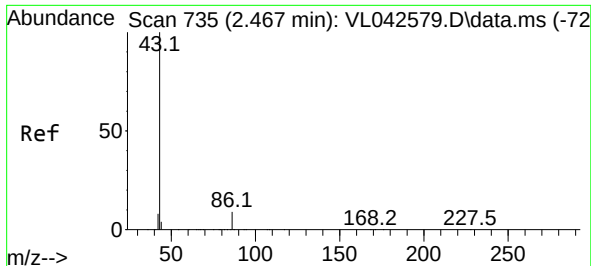
Tgt Ion: 41 Resp: 304
 Ion Ratio Lower Upper
 41 100
 76 15.1 21.2 31.8#
 39 315.8 60.9 91.3#



#22
 trans-1,2-Dichloroethene
 Concen: 0.012 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.006 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

Tgt Ion: 96 Resp: 58
 Ion Ratio Lower Upper
 96 100
 61 153.2 142.6 214.0
 98 64.6 51.0 76.4

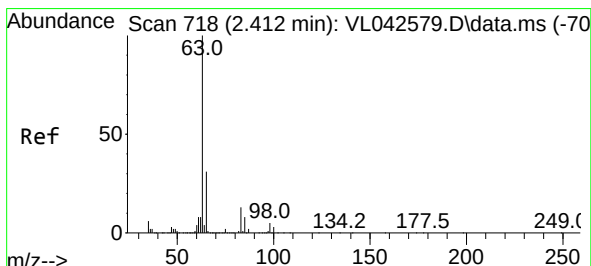
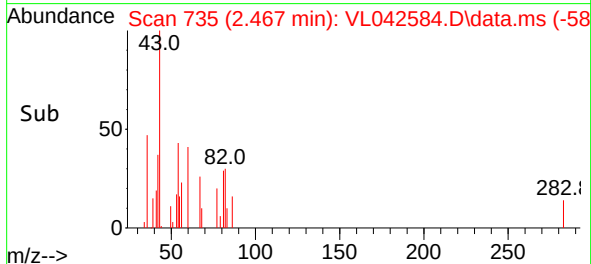
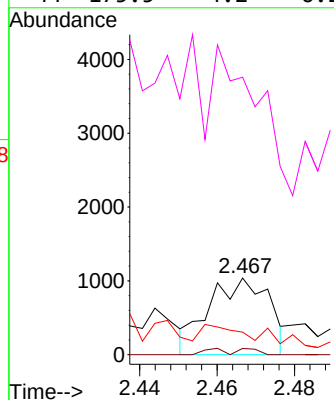
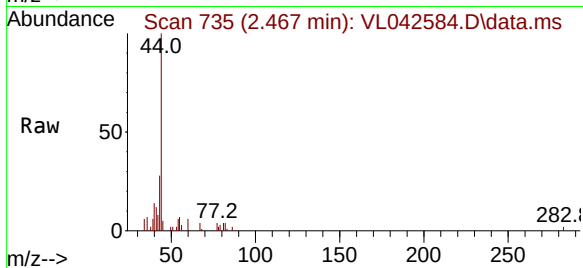




#23
 Vinyl Acetate
 Concen: 0.067 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. 0.000 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

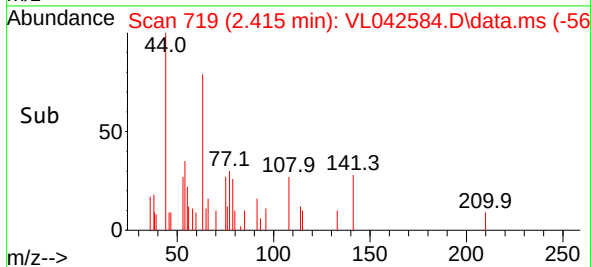
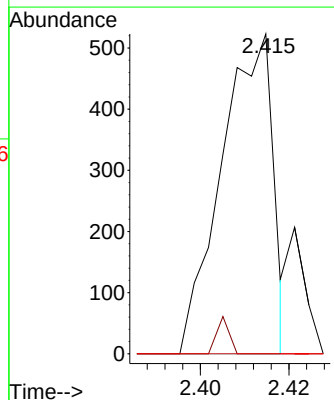
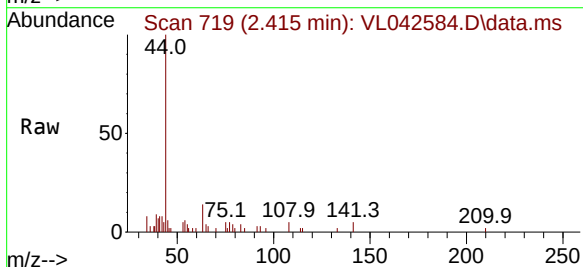
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

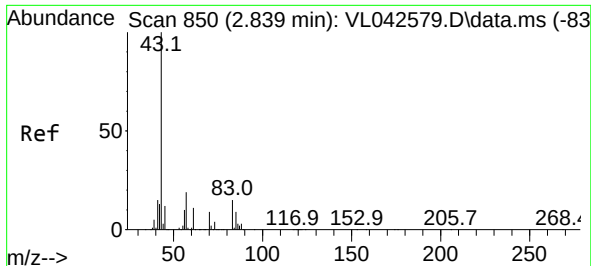
Tgt Ion:	43	Resp:	1120
Ion	Ratio	Lower	Upper
43	100		
86	12.3	6.6	9.8#
42	22.8	7.0	10.4#
44	175.5	4.2	6.2#



#24
 1,1-Dichloroethane
 Concen: 0.043 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

Tgt Ion:	63	Resp:	424
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.4	7.1#
100	0.0	1.4	4.0#





#25

Ethyl Acetate

Concen: 0.011 ppbv

RT: 2.839 min Scan# 8

Delta R.T. 0.000 min

Lab File: VL042584.D

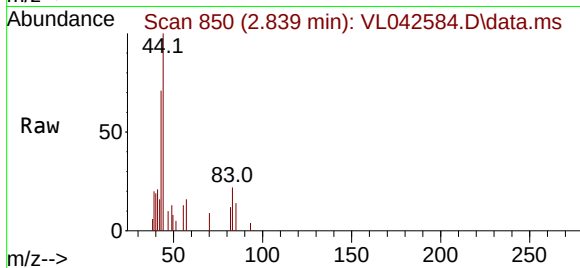
Acq: 29 May 2025 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03



Tgt Ion: 43 Resp: 380

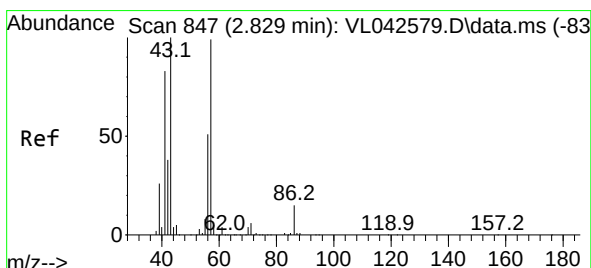
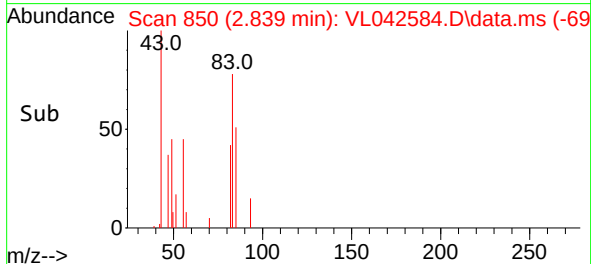
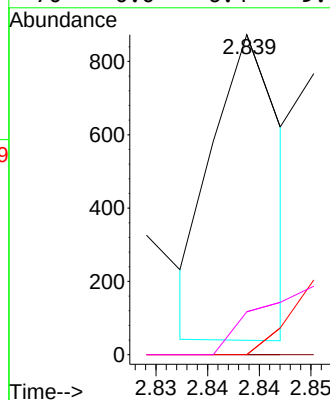
Ion Ratio Lower Upper

43 100

45 0.0 8.2 12.2#

61 0.0 7.1 10.7#

70 0.0 6.4 9.6#



#26

Hexane

Concen: 0.011 ppbv

RT: 2.832 min Scan# 848

Delta R.T. 0.003 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

Tgt Ion: 57 Resp: 172

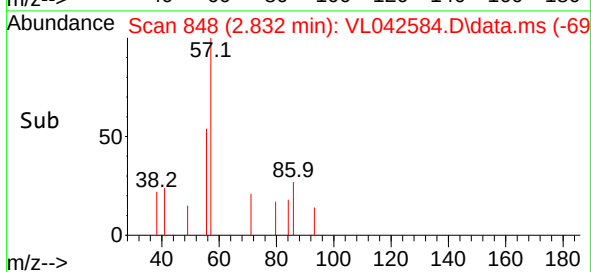
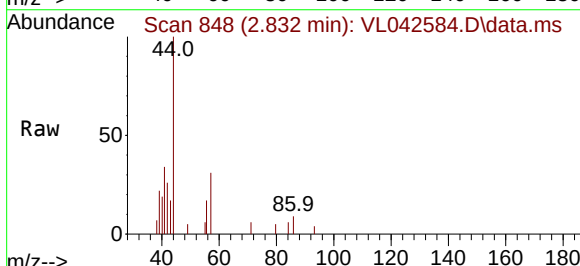
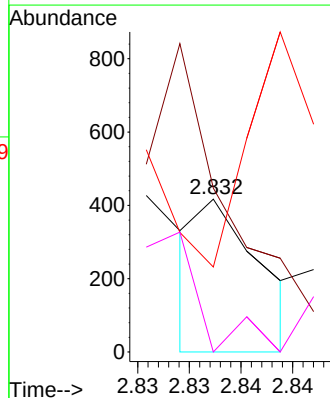
Ion Ratio Lower Upper

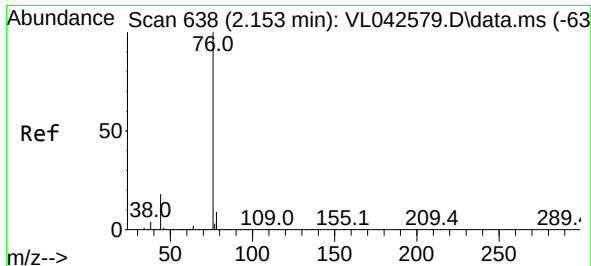
57 100

41 509.9 70.6 106.0#

43 0.0 181.1 271.7#

56 179.7 42.2 63.4#

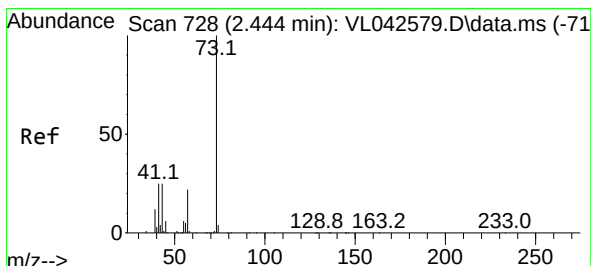
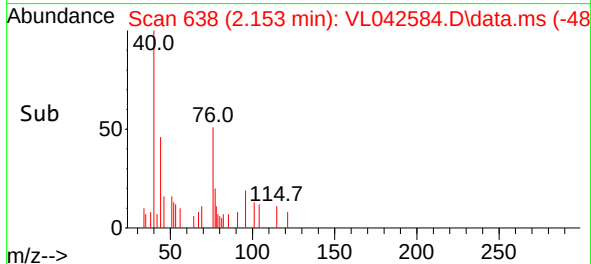
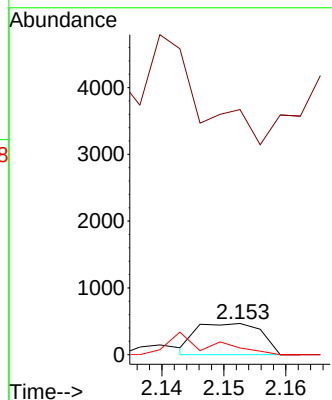
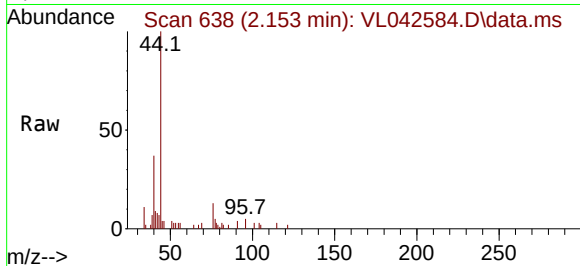




#27
Carbon Disulfide
Concen: 0.029 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

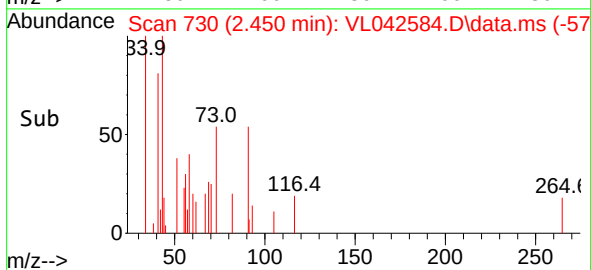
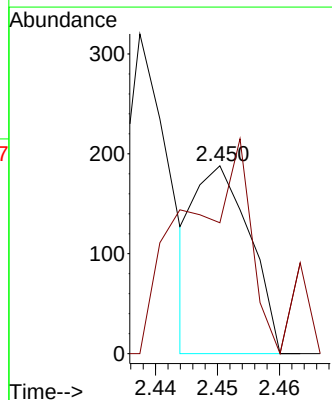
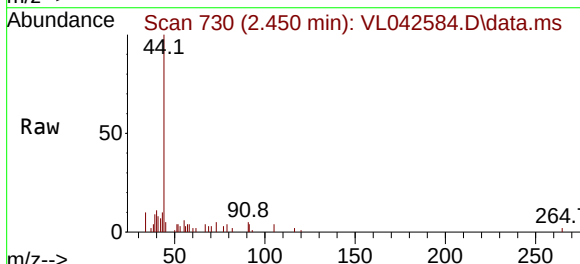
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

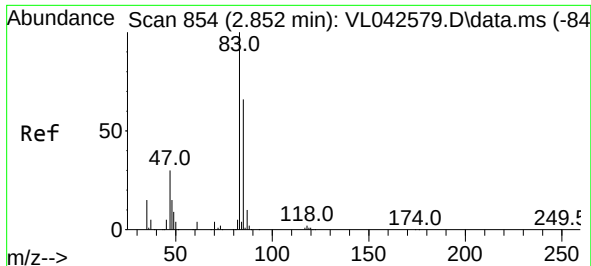
Tgt Ion: 76 Resp: 340
Ion Ratio Lower Upper
76 100
44 1236.8 21.3 31.9#
78 0.0 9.4 14.0#



#28
Methyl tert-Butyl Ether
Concen: 0.019 ppbv
RT: 2.450 min Scan# 730
Delta R.T. 0.006 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion: 73 Resp: 116
Ion Ratio Lower Upper
73 100
57 147.4 19.9 29.9#





#29

Chloroform

Concen: 0.029 ppbv

RT: 2.849 min Scan# 853

Delta R.T. -0.003 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

Instrument :

MSVOA_L

ClientSampleId :

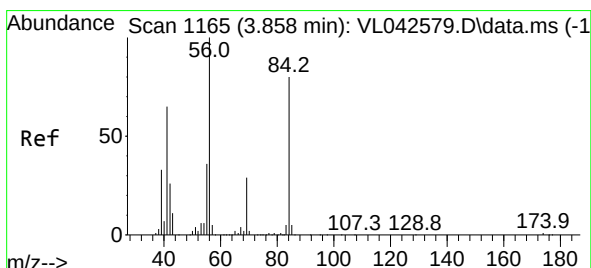
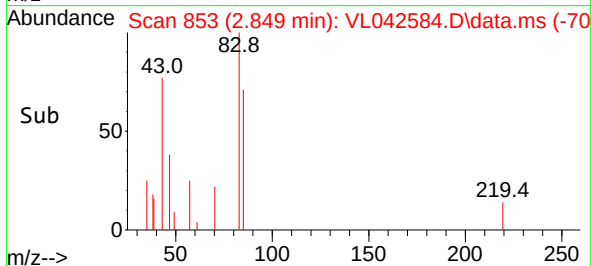
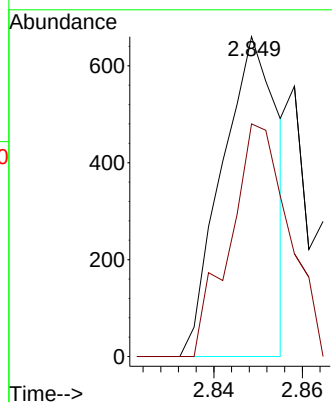
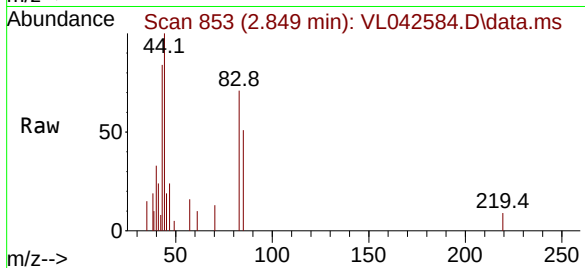
VSTDICC0.03

Tgt Ion: 83 Resp: 577

Ion Ratio Lower Upper

83 100

85 72.7 52.8 79.2



#30

Cyclohexane

Concen: 0.017 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.003 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

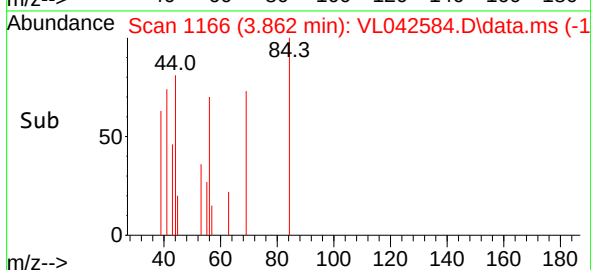
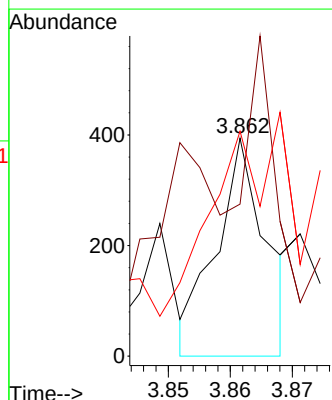
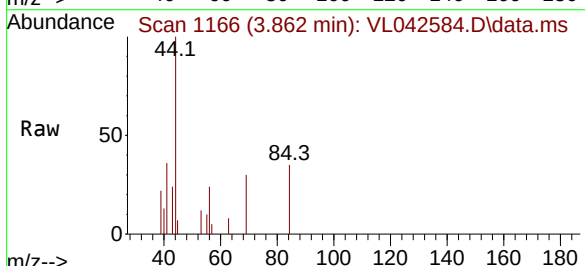
Tgt Ion: 84 Resp: 220

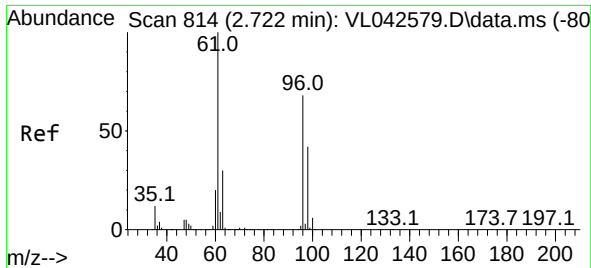
Ion Ratio Lower Upper

84 100

56 0.0 103.7 155.5#

41 0.0 65.1 97.7#

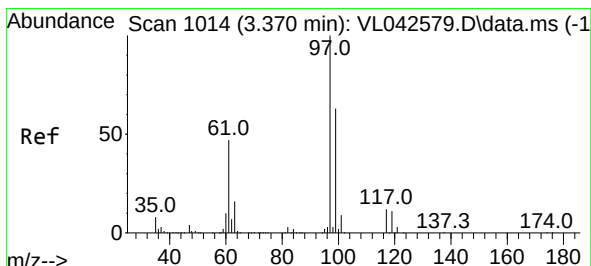
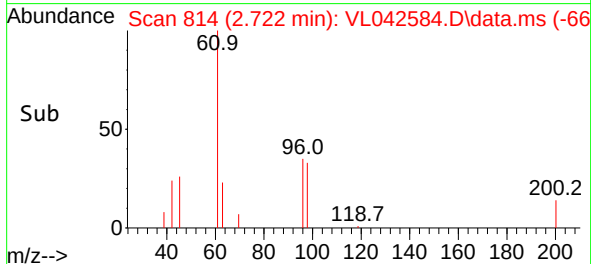
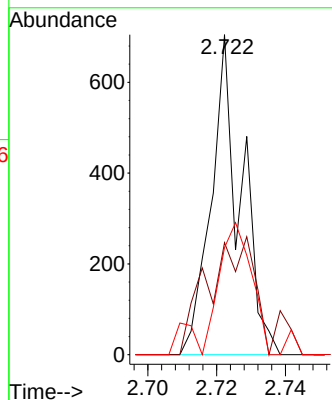
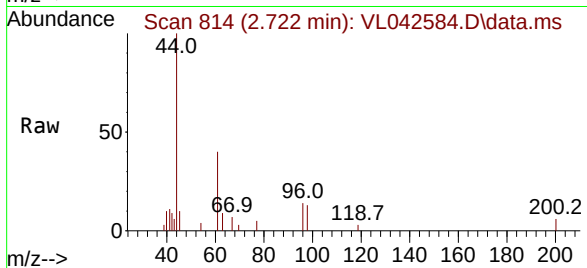




#31
 cis-1,2-Dichloroethene
 Concen: 0.030 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

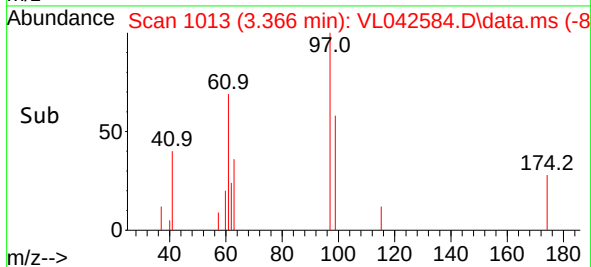
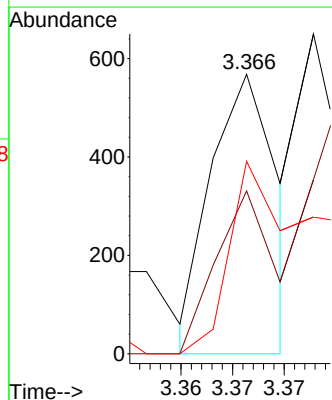
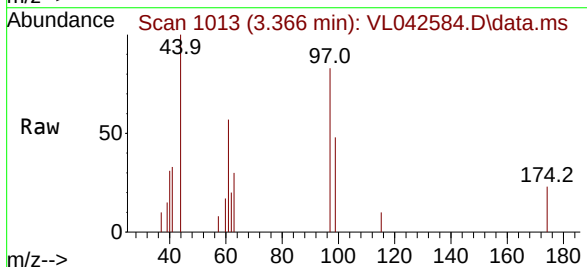
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

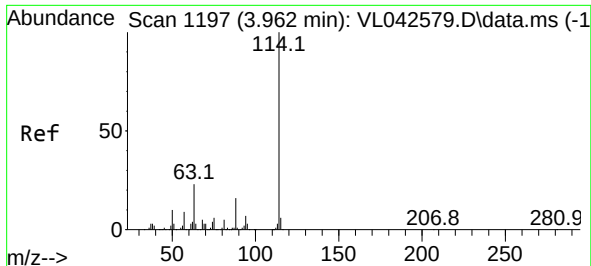
Tgt Ion: 61 Resp: 424
 Ion Ratio Lower Upper
 61 100
 96 35.0 54.5 81.7#
 98 33.5 33.4 50.2



#32
 1,1,1-Trichloroethane
 Concen: 0.013 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. -0.003 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

Tgt Ion: 97 Resp: 255
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.0 76.6#
 61 149.0 39.4 59.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.000 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

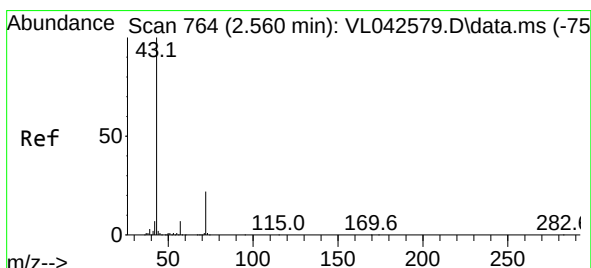
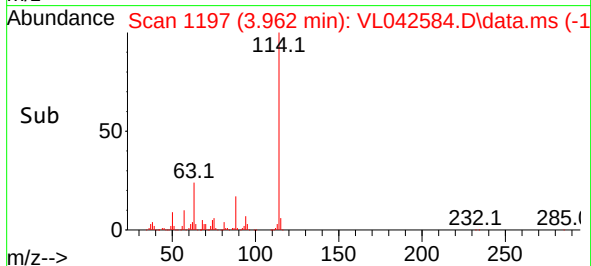
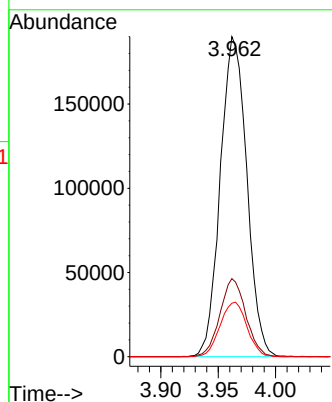
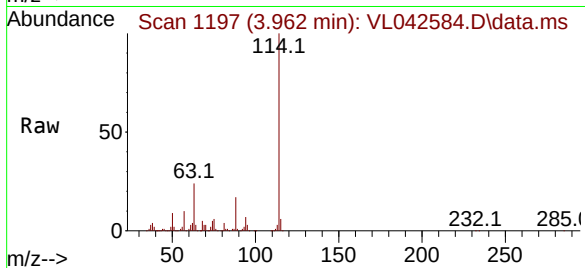
Tgt Ion:114 Resp: 305114

Ion Ratio Lower Upper

114 100

63 23.8 19.0 28.6

88 17.2 13.6 20.4



#34

2-Butanone

Concen: 0.055 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.003 min

Lab File: VL042584.D

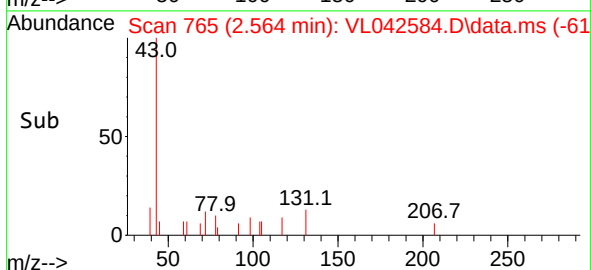
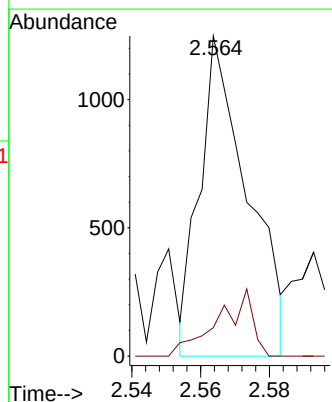
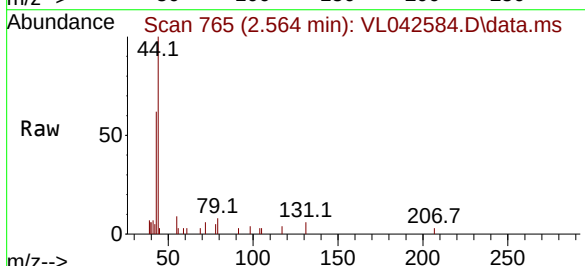
Acq: 29 May 2025 13:51

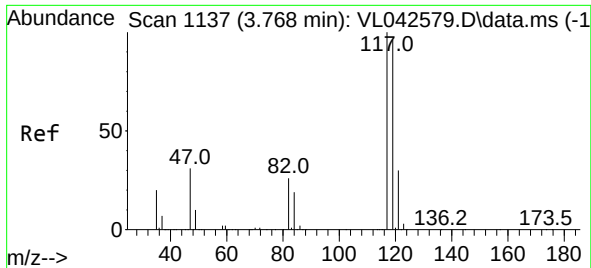
Tgt Ion: 43 Resp: 1204

Ion Ratio Lower Upper

43 100

72 15.3 17.7 26.5#

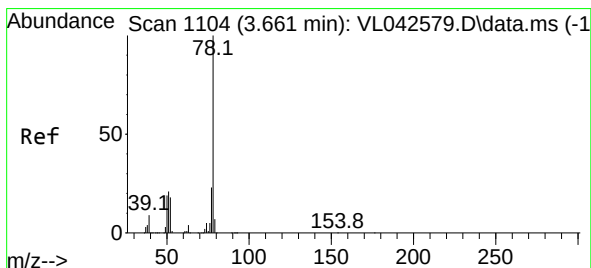
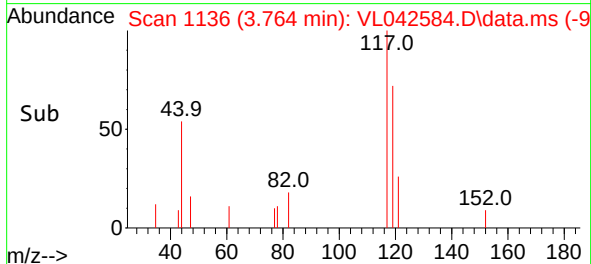
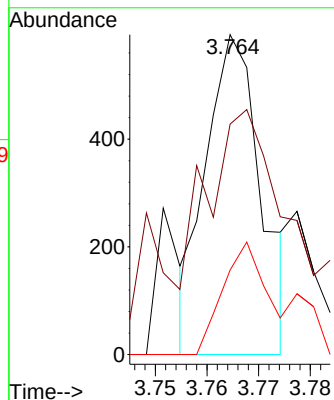
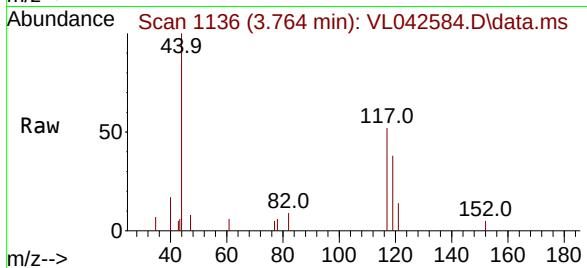




#35
Carbon Tetrachloride
Concen: 0.022 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. -0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

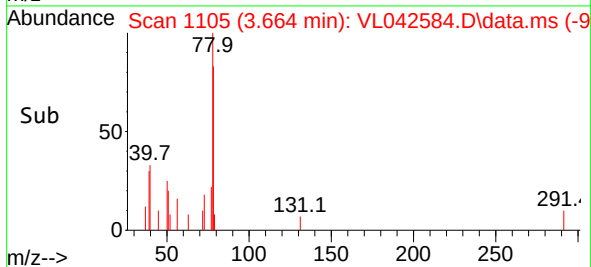
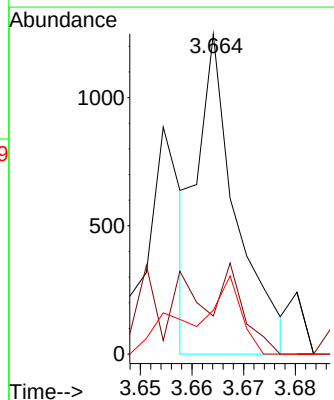
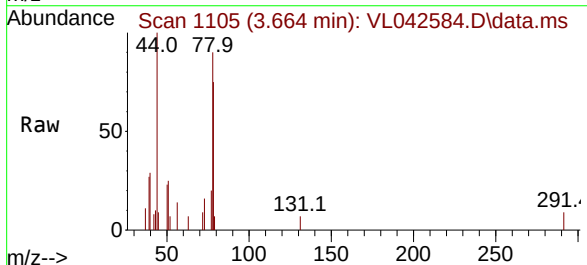
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

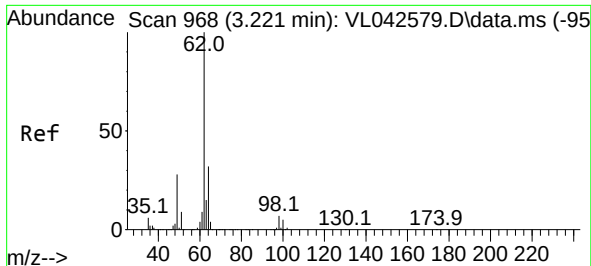
Tgt Ion:117 Resp: 442
Ion Ratio Lower Upper
117 100
119 71.4 76.8 115.2#
121 36.5 24.3 36.5#



#36
Benzene
Concen: 0.021 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion: 78 Resp: 641
Ion Ratio Lower Upper
78 100
77 13.4 18.2 27.2#
50 32.7 15.2 22.8#

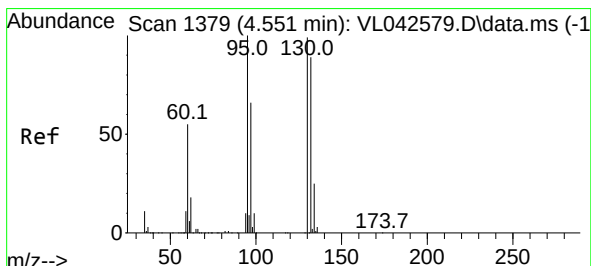
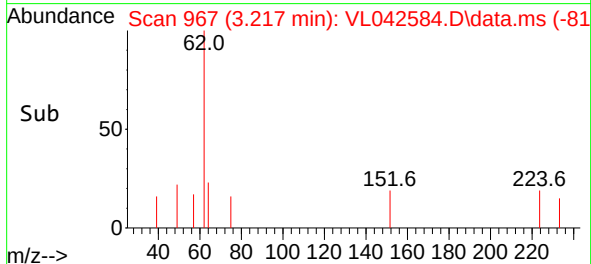
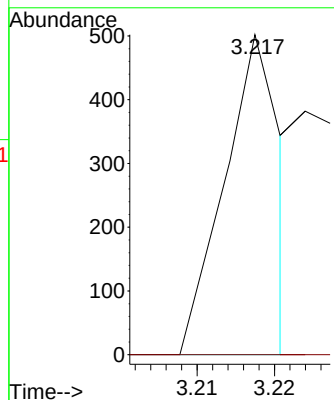
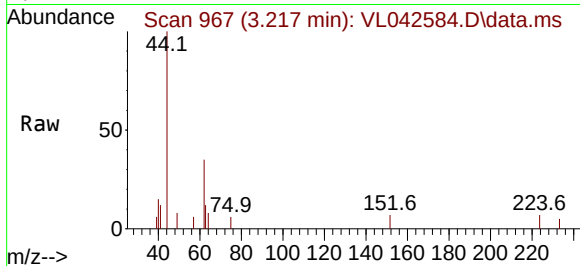




#37
1,2-Dichloroethane
Concen: 0.017 ppbv
RT: 3.217 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

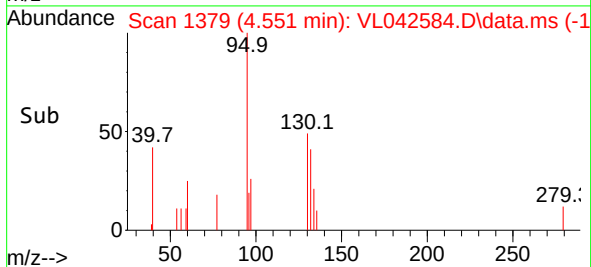
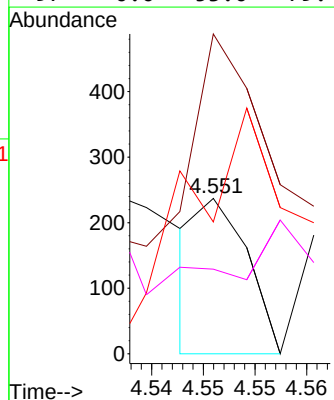
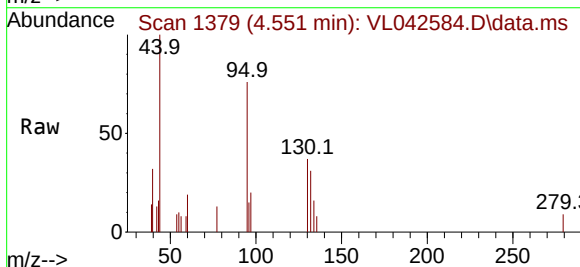
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

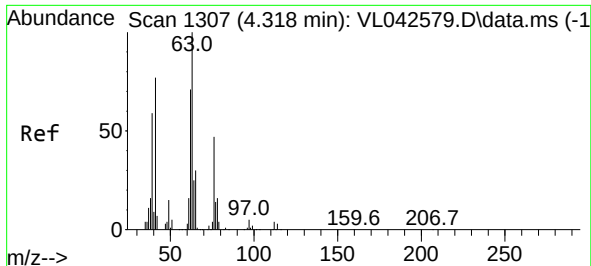
Tgt Ion: 62 Resp: 253
Ion Ratio Lower Upper
62 100
98 0.0 6.1 9.1#



#38
Trichloroethene
Concen: 0.006 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.000 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion:130 Resp: 77
Ion Ratio Lower Upper
130 100
95 114.3 80.6 121.0
132 0.0 71.8 107.6#
97 0.0 53.0 79.4#





#39

1,2-Dichloropropane

Concen: 6.532 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.356 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

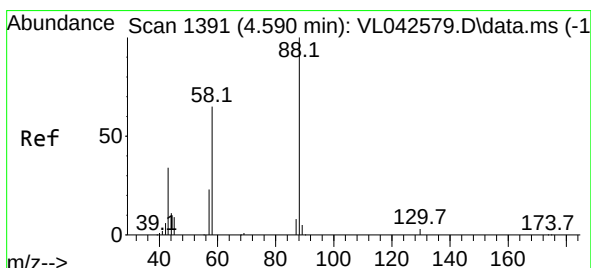
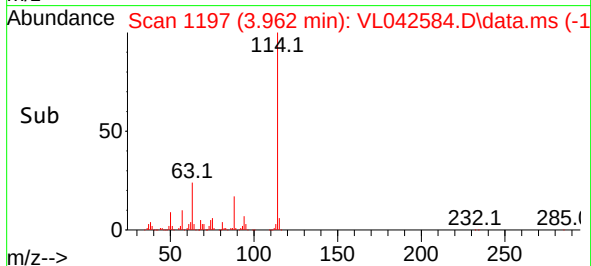
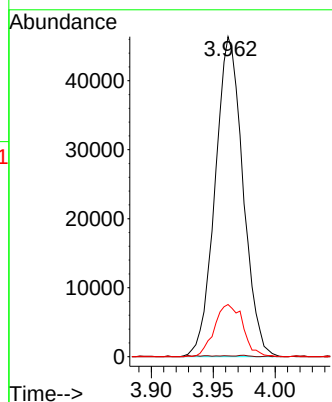
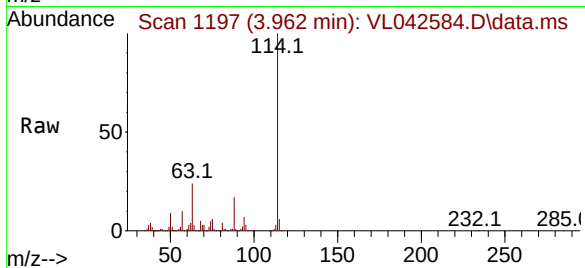
Tgt Ion: 63 Resp: 72547

Ion Ratio Lower Upper

63 100

41 0.2 61.8 92.6#

62 16.3 56.6 85.0#



#40

1,4-Dioxane

Concen: 0.005 ppbv

RT: 4.619 min Scan# 1400

Delta R.T. 0.029 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

Tgt Ion: 88 Resp: 25

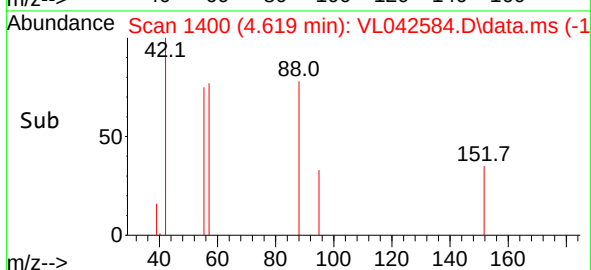
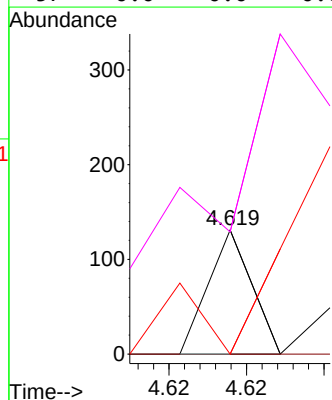
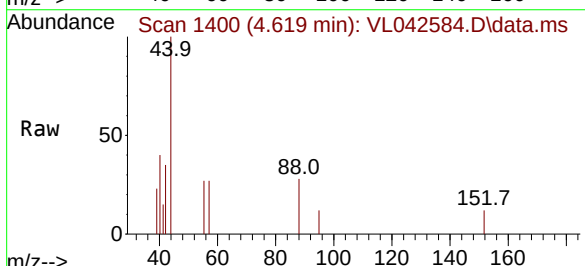
Ion Ratio Lower Upper

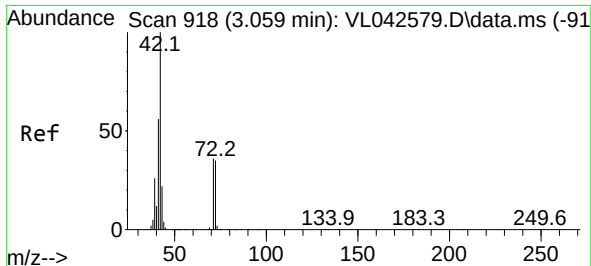
88 100

58 0.0 55.8 83.8#

43 304.0 24.8 37.2#

57 0.0 0.0 0.0

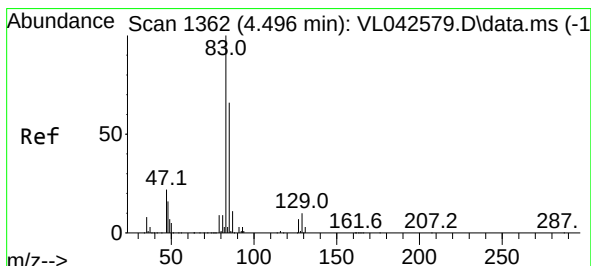
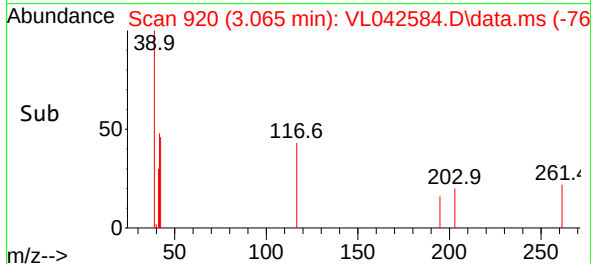
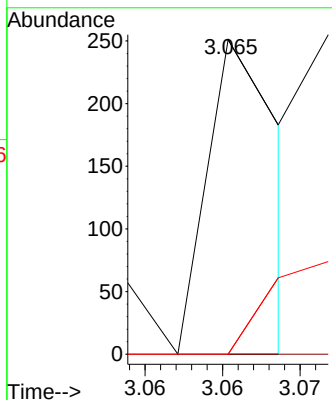
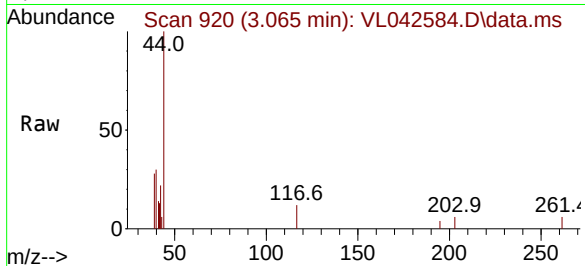




#41
Tetrahydrofuran
Concen: 0.007 ppbv
RT: 3.065 min Scan# 918
Delta R.T. 0.006 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

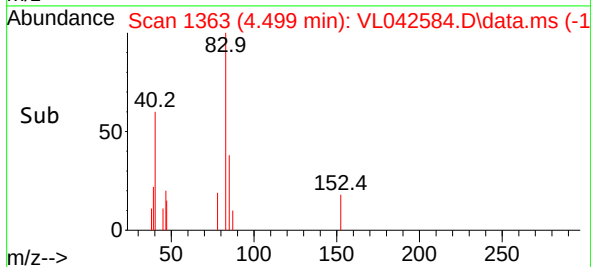
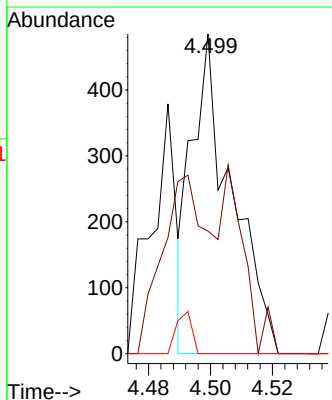
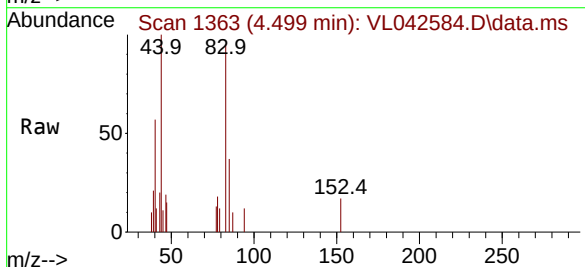
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

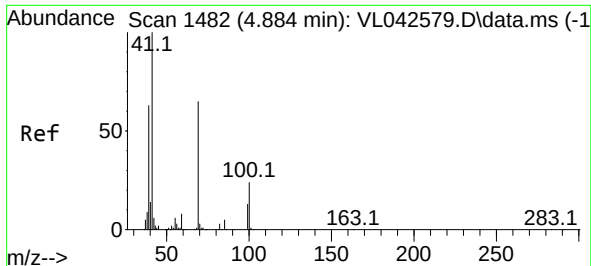
Tgt Ion: 42 Resp: 84
Ion Ratio Lower Upper
42 100
72 0.0 28.9 43.3#
71 0.0 28.5 42.7#



#42
Bromodichloromethane
Concen: 0.020 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion: 83 Resp: 434
Ion Ratio Lower Upper
83 100
85 38.4 52.7 79.1#
127 0.0 5.8 8.6#





#43

Methyl Methacrylate

Concen: 0.016 ppbv

RT: 4.888 min Scan# 1483

Delta R.T. 0.003 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

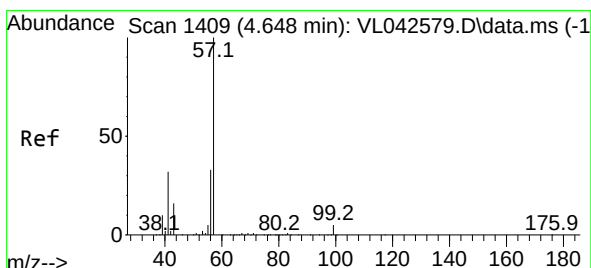
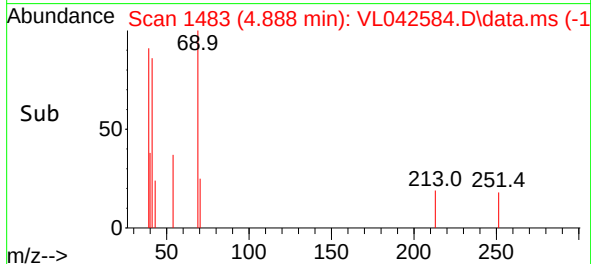
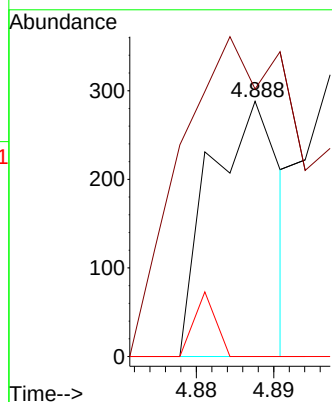
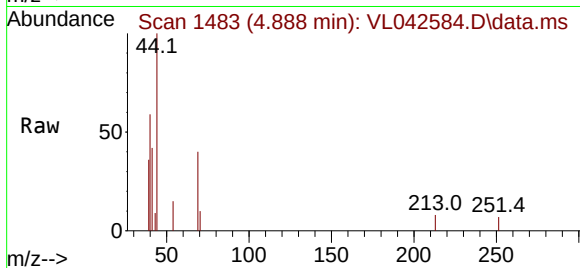
Tgt Ion: 69 Resp: 182

Ion Ratio Lower Upper

69 100

41 58.8 124.6 187.0#

100 7.7 29.9 44.9#



#44

2,2,4-Trimethylpentane

Concen: 0.012 ppbv

RT: 4.648 min Scan# 1409

Delta R.T. 0.000 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

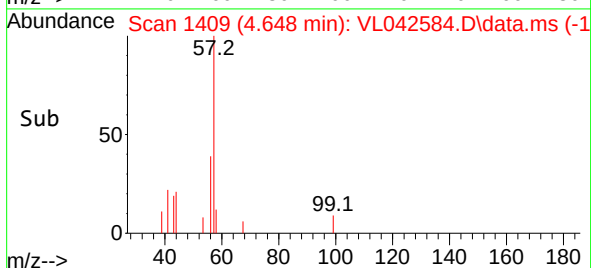
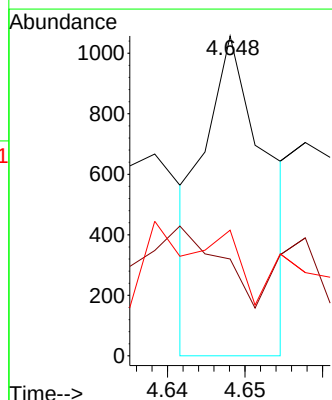
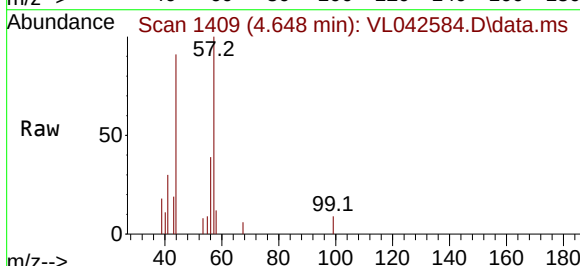
Tgt Ion: 57 Resp: 596

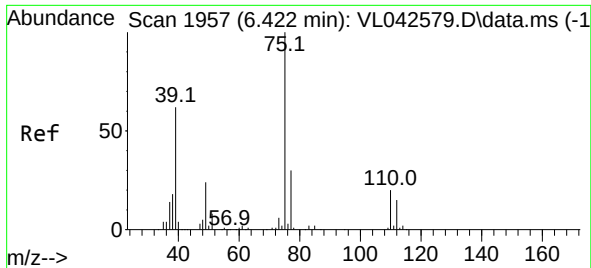
Ion Ratio Lower Upper

57 100

41 0.0 26.1 39.1#

56 0.0 25.9 38.9#

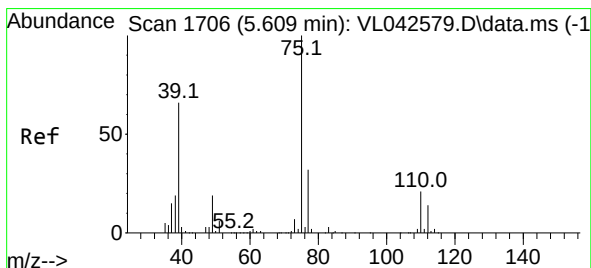
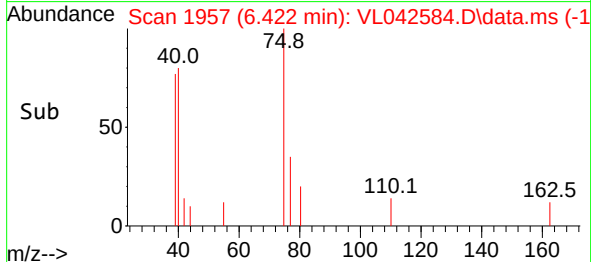
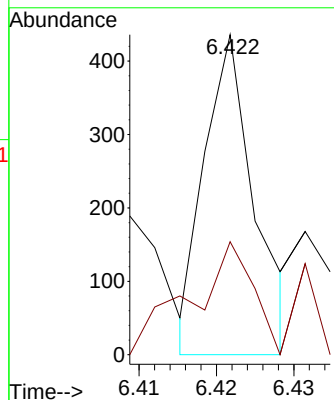
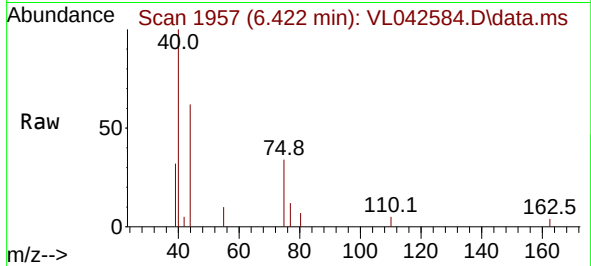




#45
 t-1,3-Dichloropropene
 Concen: 0.015 ppbv
 RT: 6.422 min Scan# 1957
 Delta R.T. 0.000 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

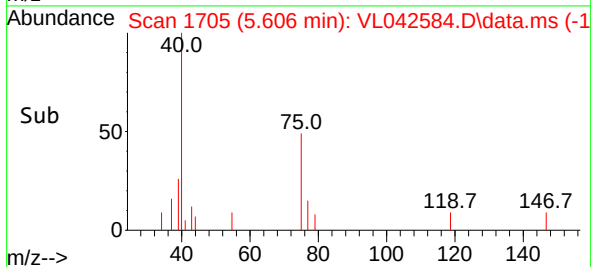
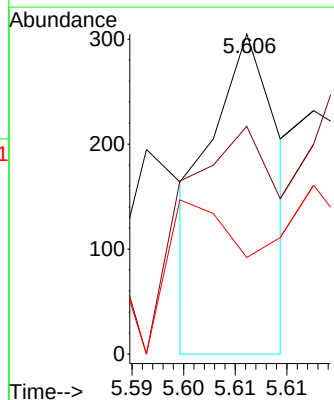
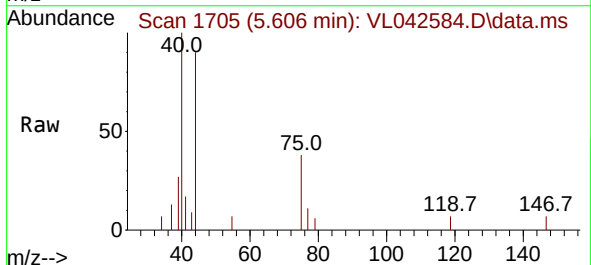
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

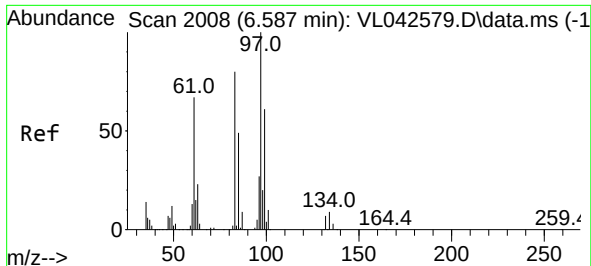
Tgt Ion: 75 Resp: 196
 Ion Ratio Lower Upper
 75 100
 77 35.3 24.2 36.2



#46
 cis-1,3-Dichloropropene
 Concen: 0.008 ppbv
 RT: 5.606 min Scan# 1705
 Delta R.T. -0.003 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

Tgt Ion: 75 Resp: 139
 Ion Ratio Lower Upper
 75 100
 39 48.9 52.7 79.1#
 77 0.0 25.8 38.8#

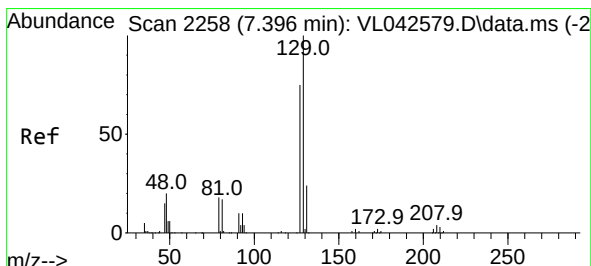
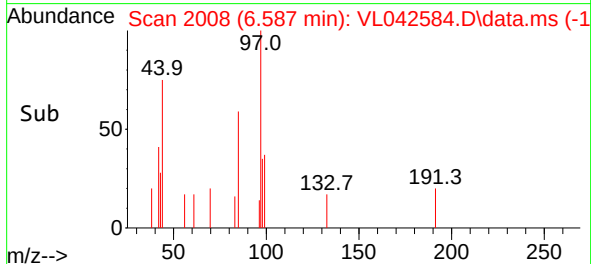
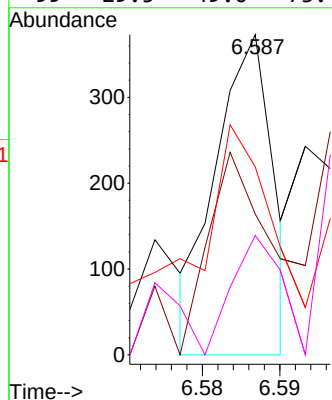
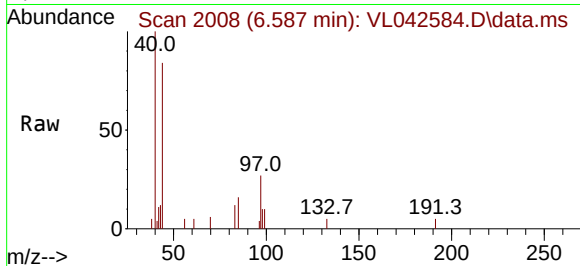




#47
1,1,2-Trichloroethane
Concen: 0.017 ppbv
RT: 6.587 min Scan# 2008
Delta R.T. 0.000 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

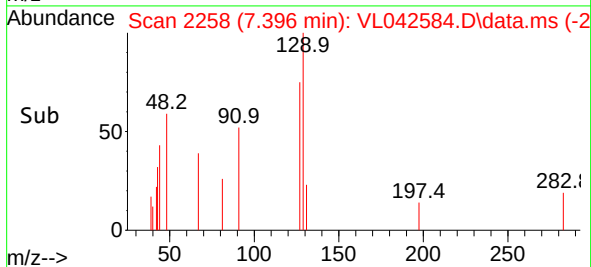
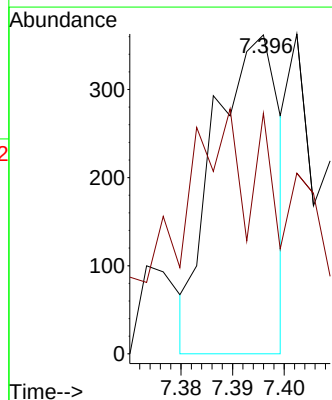
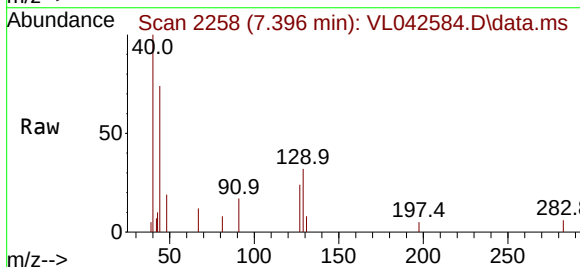
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

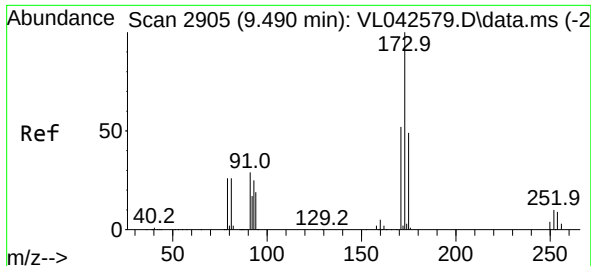
Tgt Ion:	97	Resp:	192
Ion	Ratio	Lower	Upper
97	100		
83	59.0	63.9	95.9#
85	38.5	39.2	58.8#
99	29.5	49.0	73.4#



#48
Dibromochloromethane
Concen: 0.017 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion:	129	Resp:	318
Ion	Ratio	Lower	Upper
129	100		
127	135.5	39.0	116.9#





#49

Bromoform

Concen: 0.022 ppbv

RT: 9.487 min Scan# 2905

Delta R.T. -0.003 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

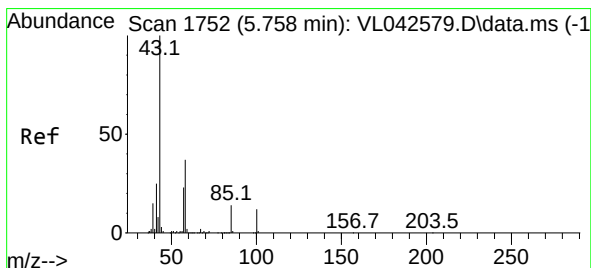
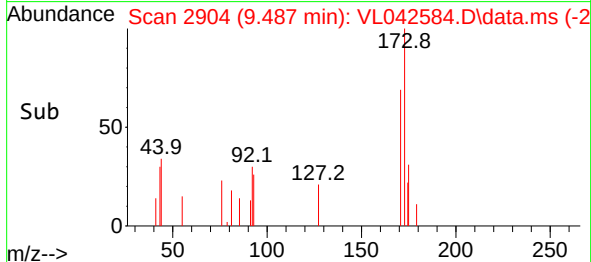
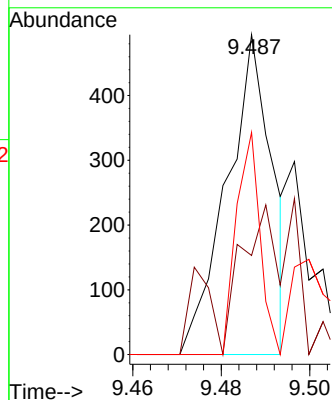
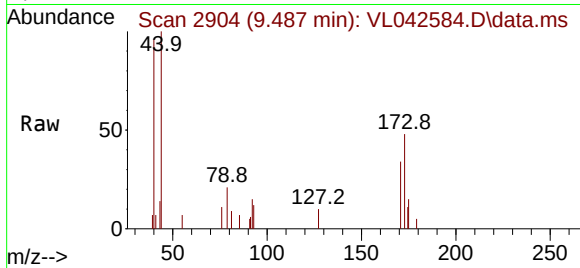
Tgt Ion:173 Resp: 353

Ion Ratio Lower Upper

173 100

175 0.0 38.7 58.1#

171 61.2 41.2 61.8



#50

4-Methyl-2-Pentanone

Concen: 0.003 ppbv

RT: 5.768 min Scan# 1755

Delta R.T. 0.010 min

Lab File: VL042584.D

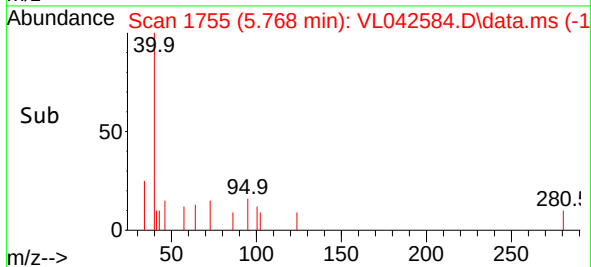
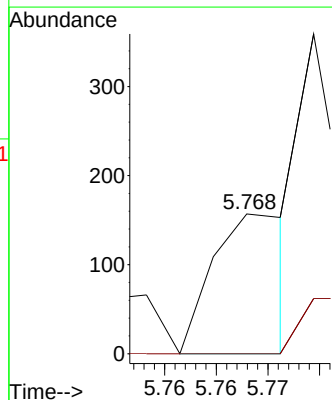
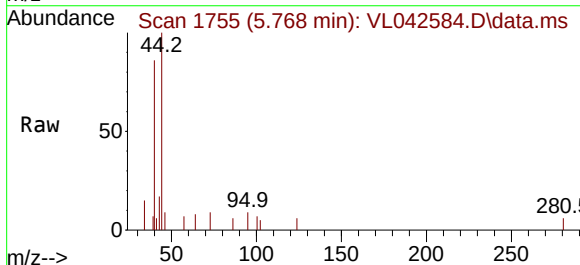
Acq: 29 May 2025 13:51

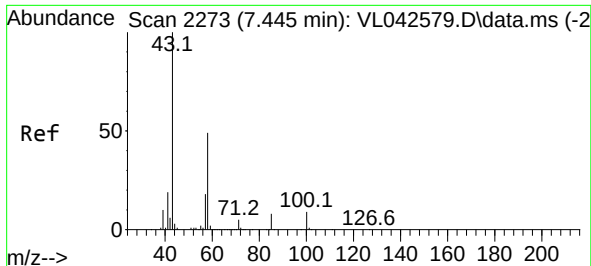
Tgt Ion: 43 Resp: 81

Ion Ratio Lower Upper

43 100

58 0.0 28.3 42.5#

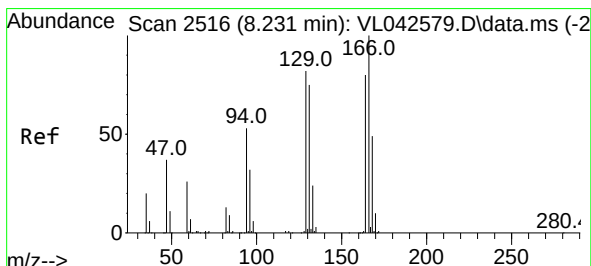
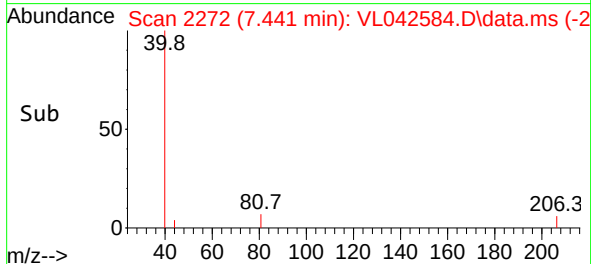
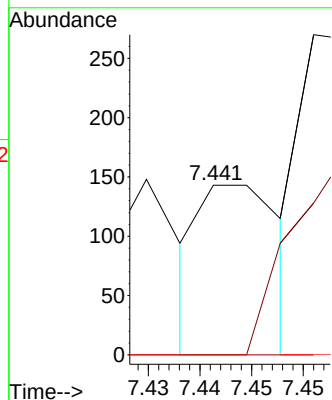
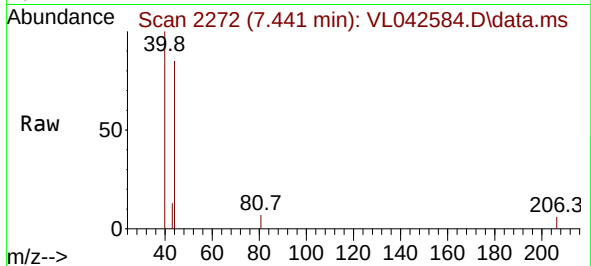




#51
2-Hexanone
Concen: 0.003 ppbv
RT: 7.441 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

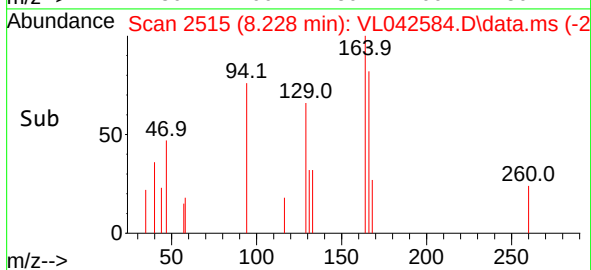
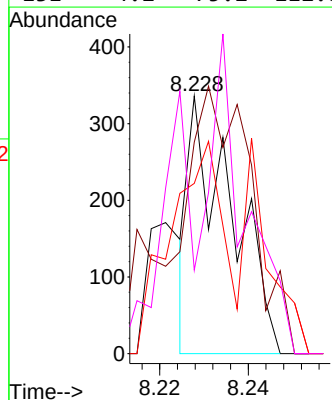
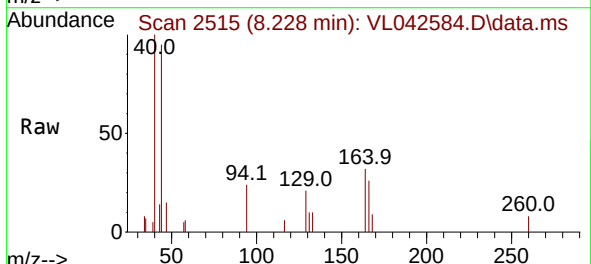
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

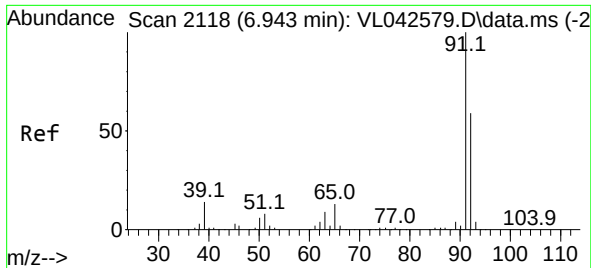
Tgt Ion:	43	Resp:	78
Ion	Ratio	Lower	Upper
43	100		
58	0.0	39.9	59.9#
98	0.0	0.1	0.1#



#52
Tetrachloroethene
Concen: 0.020 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. -0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion:	164	Resp:	227
Ion	Ratio	Lower	Upper
164	100		
166	50.0	100.0	150.0#
129	40.2	82.2	123.4#
131	4.2	75.2	112.8#

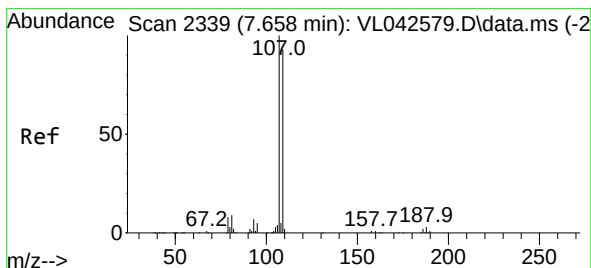
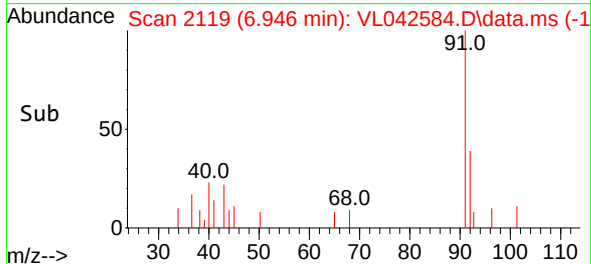
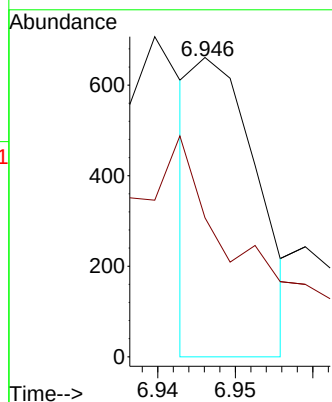
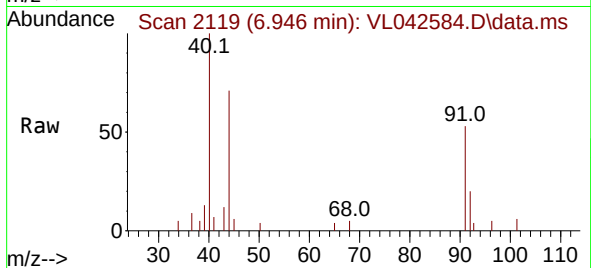




#53
Toluene
Concen: 0.011 ppbv
RT: 6.946 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

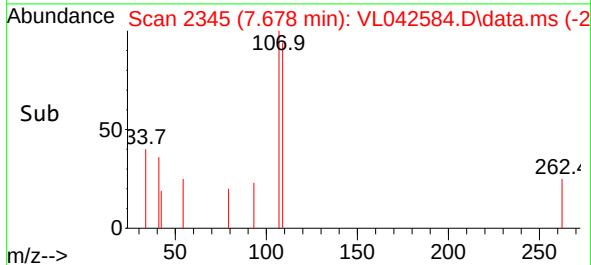
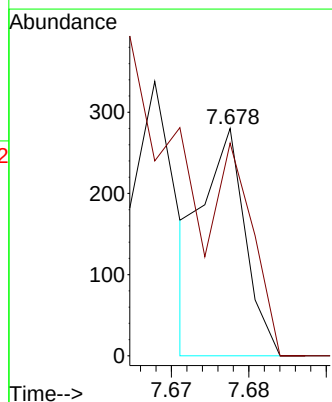
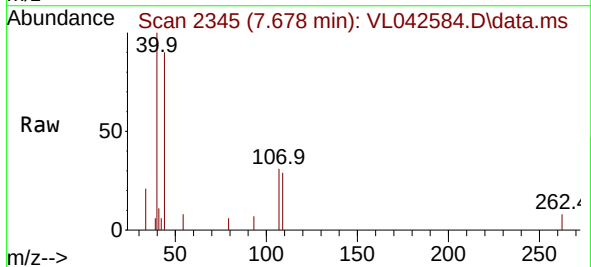
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

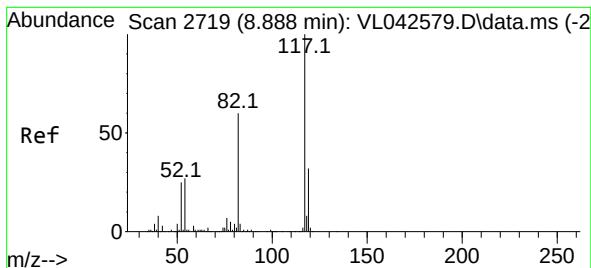
Tgt Ion: 91 Resp: 372
Ion Ratio Lower Upper
91 100
92 199.5 48.2 72.4#



#54
1,2-Dibromoethane
Concen: 0.006 ppbv
RT: 7.678 min Scan# 2345
Delta R.T. 0.019 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion: 107 Resp: 104
Ion Ratio Lower Upper
107 100
109 93.6 74.3 111.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

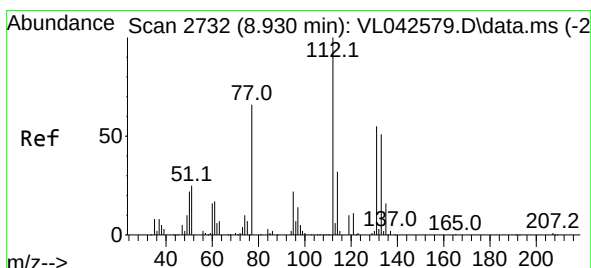
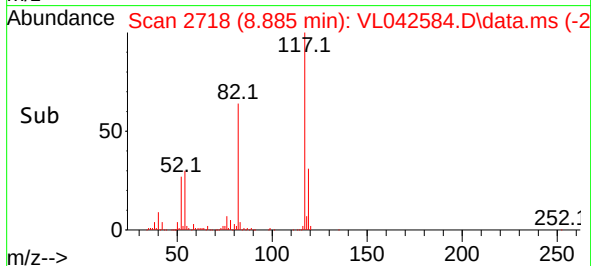
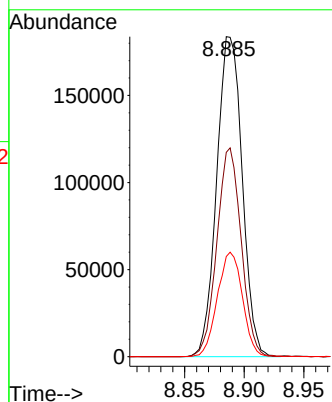
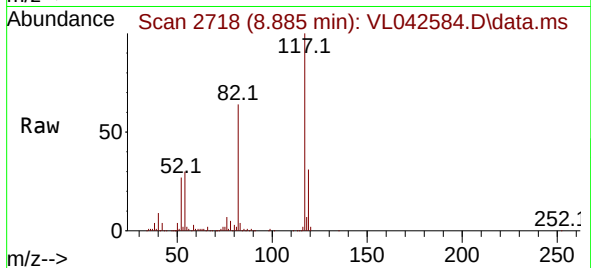
Tgt Ion:117 Resp: 273881

Ion Ratio Lower Upper

117 100

82 62.2 51.2 76.8

119 32.2 26.3 39.5



#56

1,1,1,2-Tetrachloroethane

Concen: 0.033 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. -0.003 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

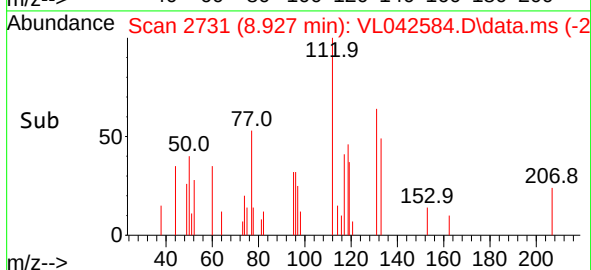
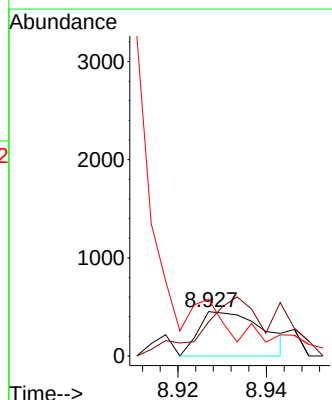
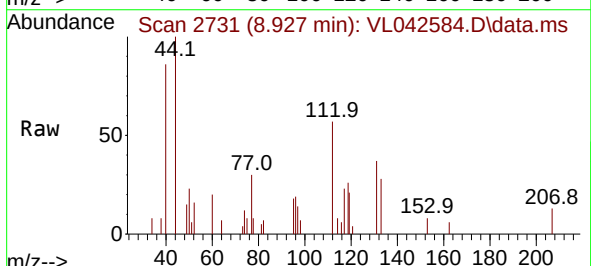
Tgt Ion:131 Resp: 451

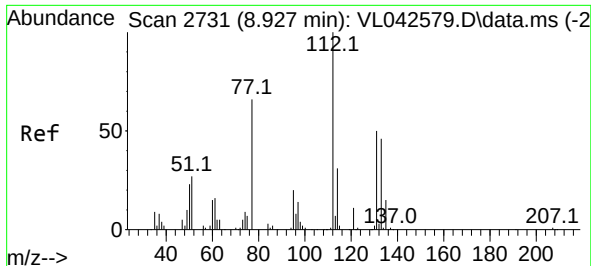
Ion Ratio Lower Upper

131 100

133 165.6 75.0 112.6#

119 0.0 50.8 76.2#

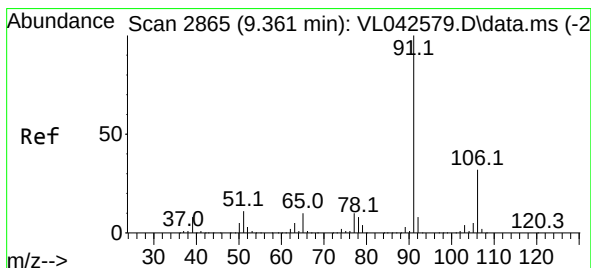
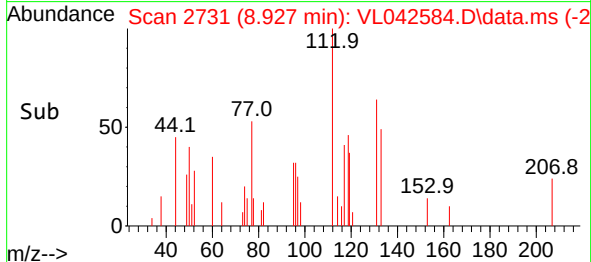
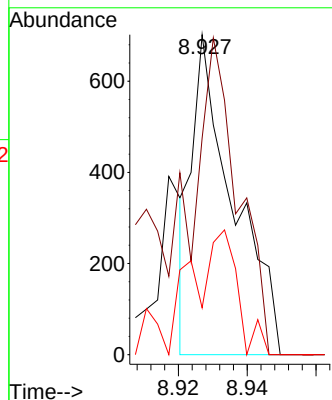
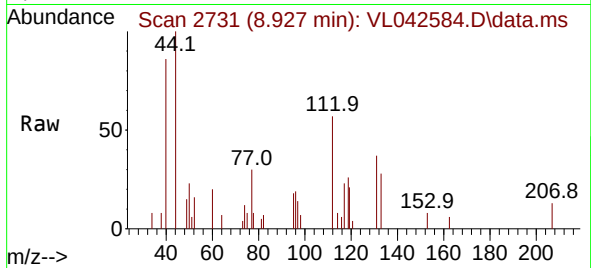




#57
Chlorobenzene
Concen: 0.022 ppbv
RT: 8.927 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

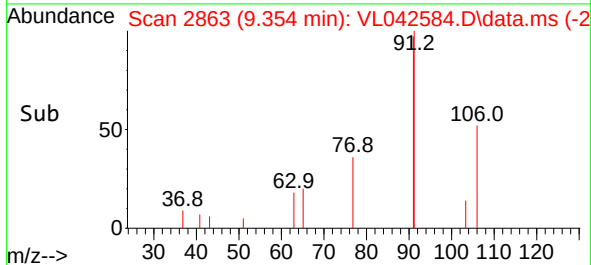
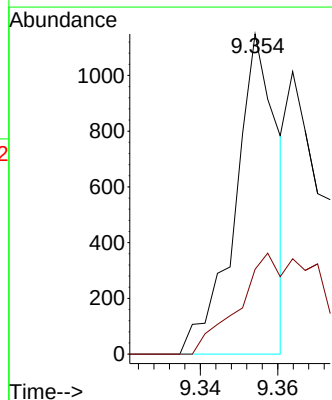
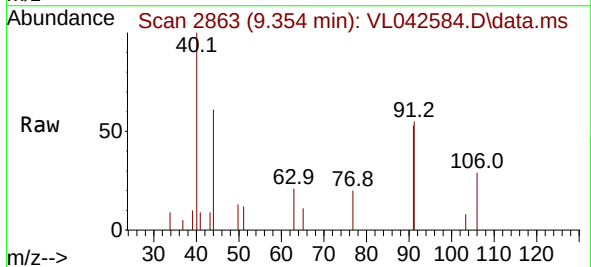
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

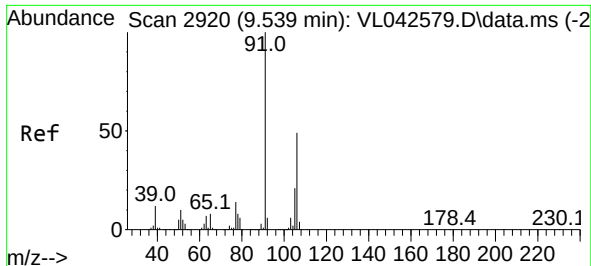
Tgt Ion:112 Resp: 585
Ion Ratio Lower Upper
112 100
77 67.7 53.5 80.3
114 14.7 27.8 34.0#



#58
Ethyl Benzene
Concen: 0.019 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.006 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion: 91 Resp: 866
Ion Ratio Lower Upper
91 100
106 26.5 25.9 38.9





#59

m/p-Xylene

Concen: 0.010 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.010 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

Instrument :

MSVOA_L

ClientSampleId :

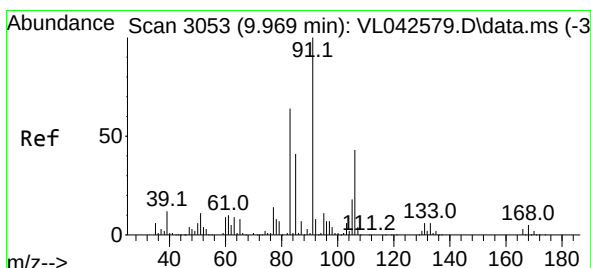
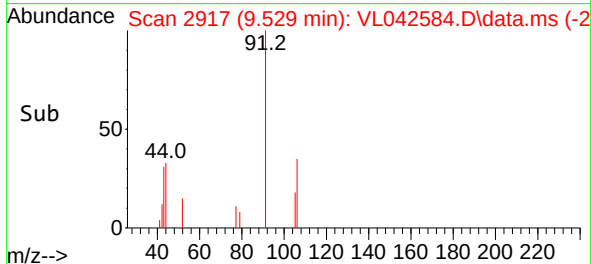
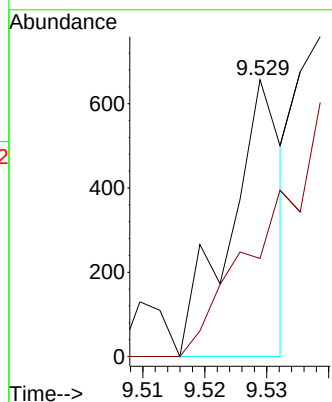
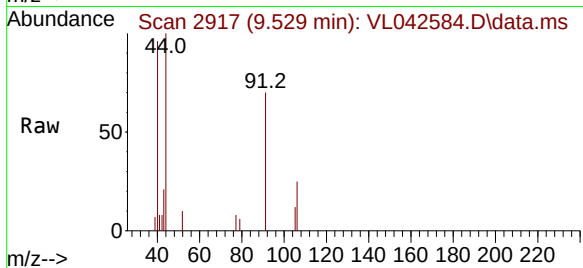
VSTDIC0.03

Tgt Ion: 91 Resp: 382

Ion Ratio Lower Upper

91 100

106 0.0 38.8 58.2#



#60

o-Xylene

Concen: 0.031 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.003 min

Lab File: VL042584.D

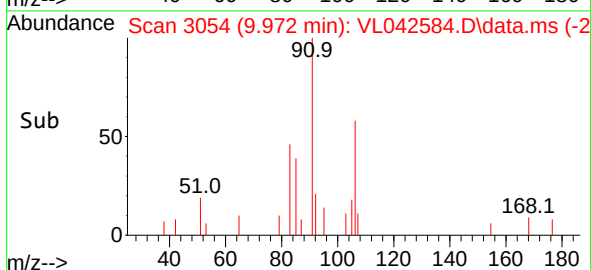
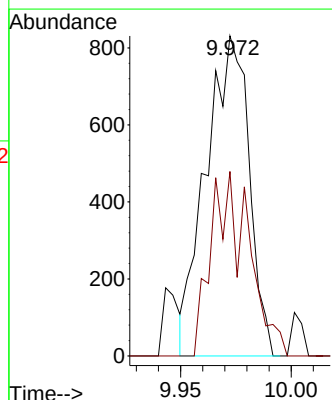
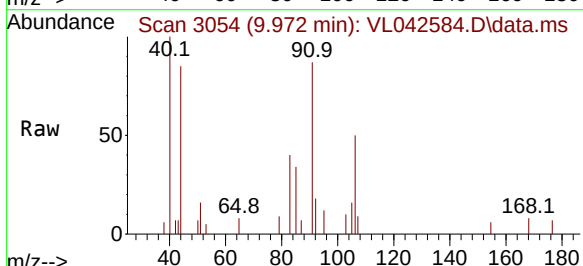
Acq: 29 May 2025 13:51

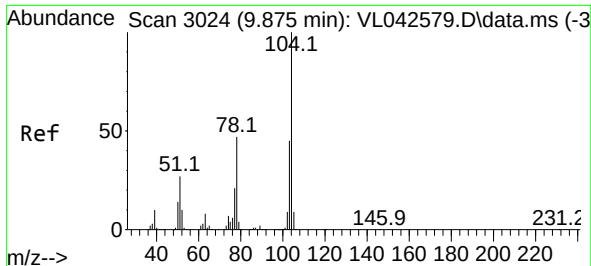
Tgt Ion: 91 Resp: 1125

Ion Ratio Lower Upper

91 100

106 50.6 22.9 68.5

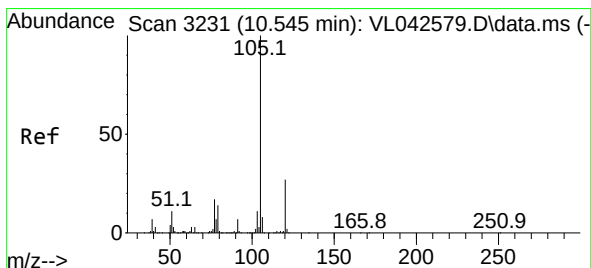
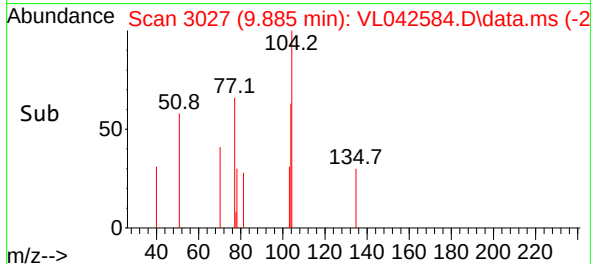
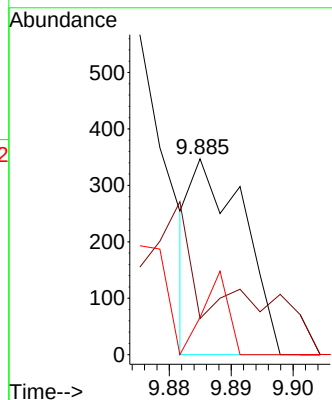
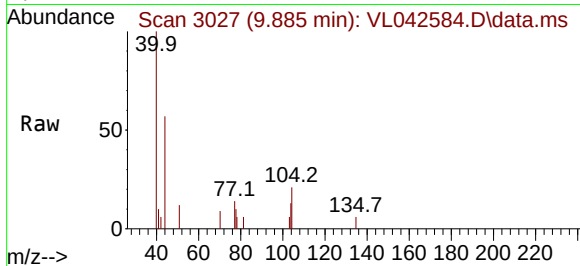




#61
Styrene
Concen: 0.012 ppbv
RT: 9.885 min Scan# 3024
Delta R.T. 0.010 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

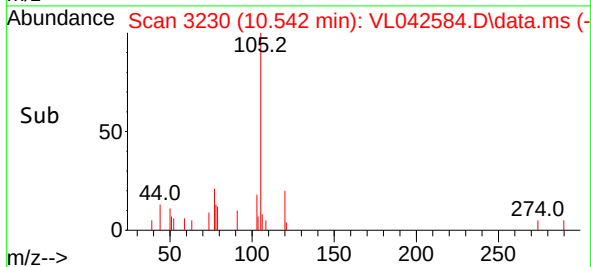
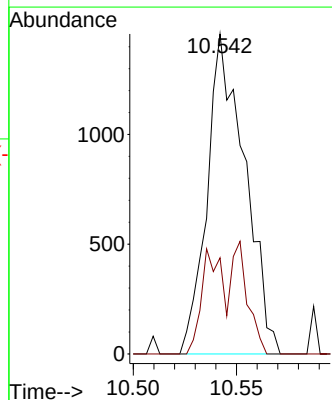
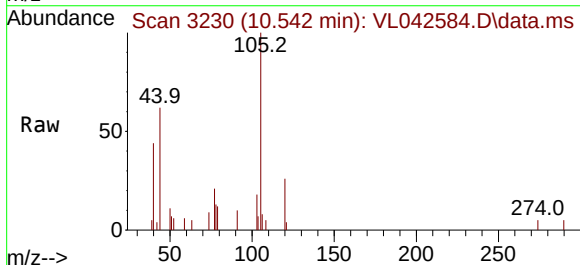
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

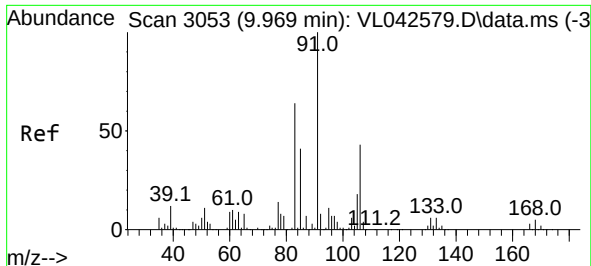
Tgt Ion:104 Resp: 201
Ion Ratio Lower Upper
104 100
78 156.2 38.2 57.4#
103 29.4 36.7 55.1#



#62
Isopropylbenzene
Concen: 0.034 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion:105 Resp: 1842
Ion Ratio Lower Upper
105 100
120 33.3 20.9 31.3#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.037 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. 0.000 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

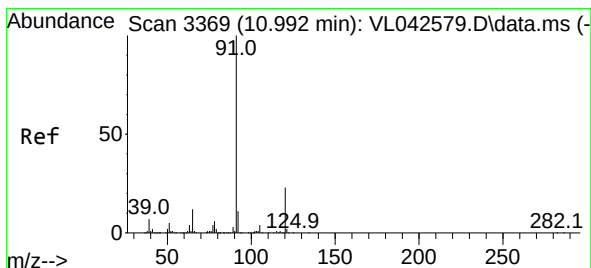
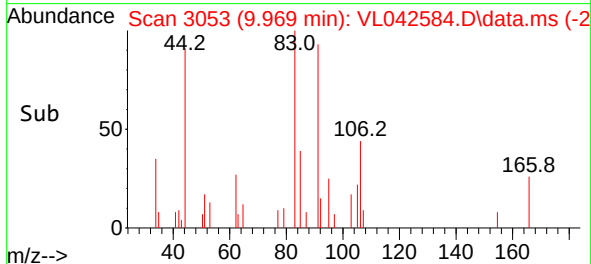
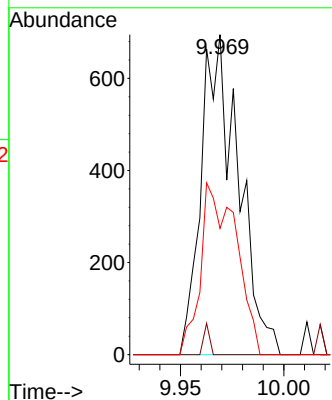
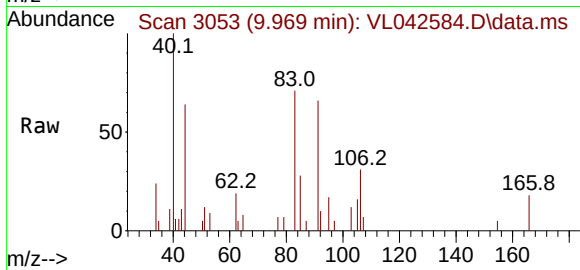
Tgt Ion: 83 Resp: 866

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

85 51.4 32.5 97.4



#64

n-propylbenzene

Concen: 0.027 ppbv

RT: 10.998 min Scan# 3371

Delta R.T. 0.006 min

Lab File: VL042584.D

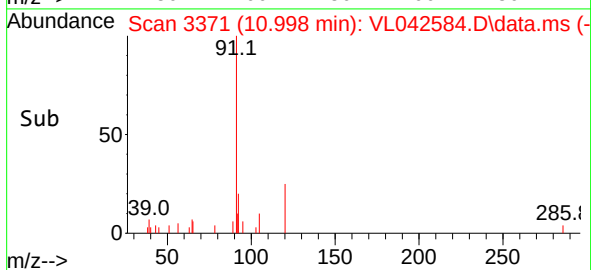
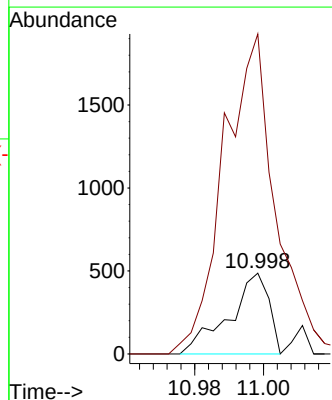
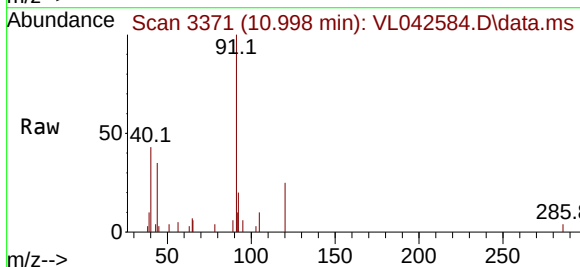
Acq: 29 May 2025 13:51

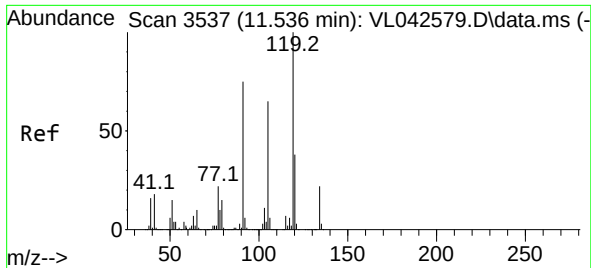
Tgt Ion: 120 Resp: 391

Ion Ratio Lower Upper

120 100

91 520.2 363.0 544.6

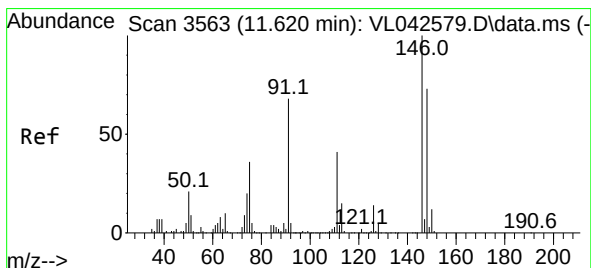
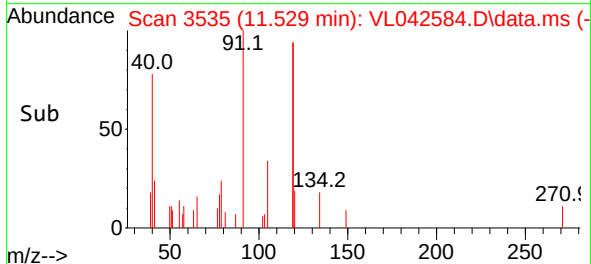
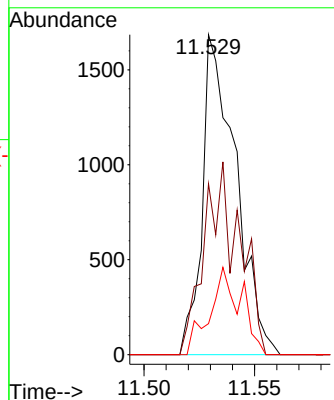
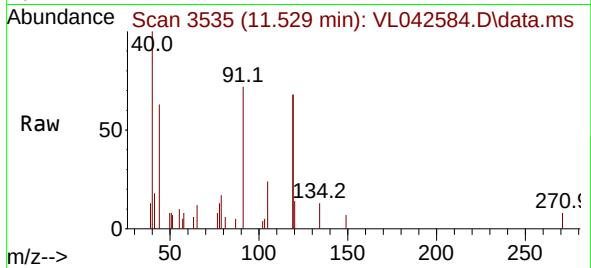




#65
tert-Butylbenzene
Concen: 0.036 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.006 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

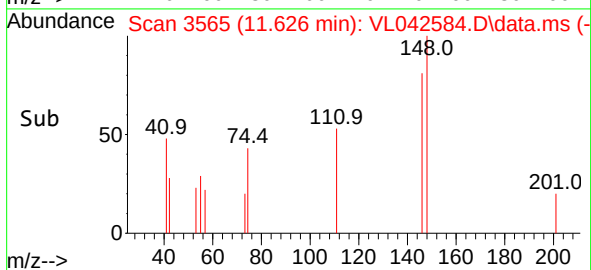
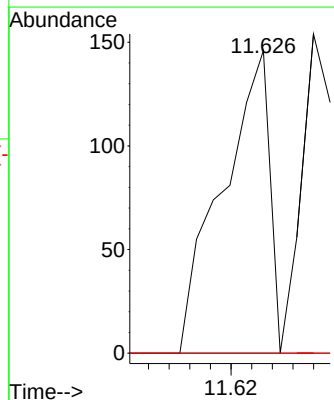
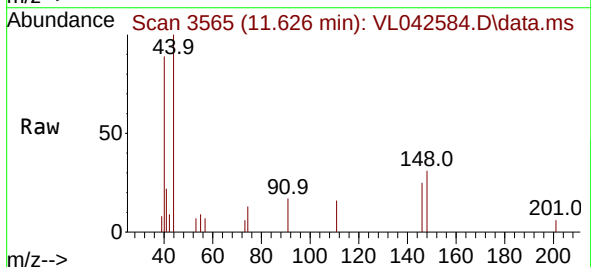
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

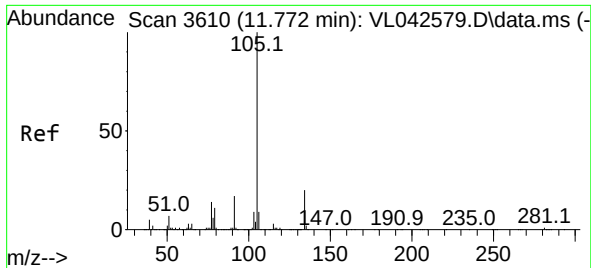
Tgt Ion:	119	Resp:	1766
Ion	Ratio	Lower	Upper
119	100		
91	64.0	61.1	91.7
134	25.7	17.4	26.2



#66
Benzyl Chloride
Concen: 0.015 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. 0.006 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion:	91	Resp:	93
Ion	Ratio	Lower	Upper
91	100		
126	0.0	15.1	22.7#
128	0.0	5.0	7.6#

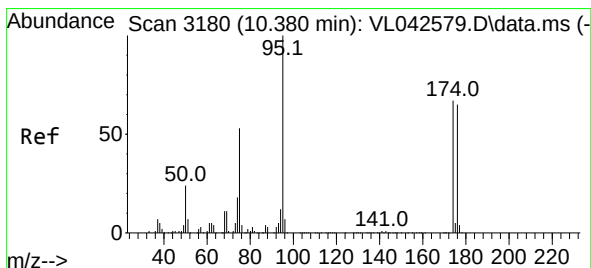
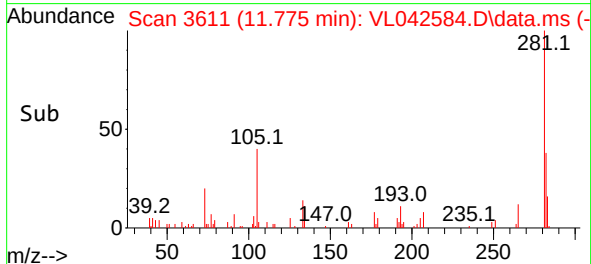
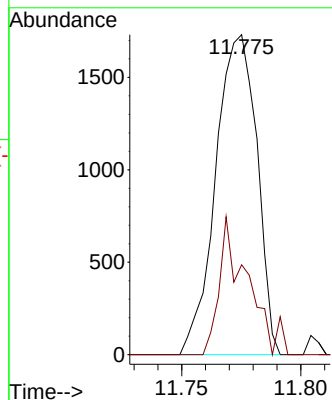
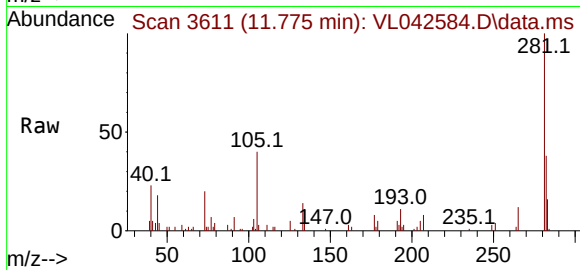




#67
 sec-Butylbenzene
 Concen: 0.030 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.003 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

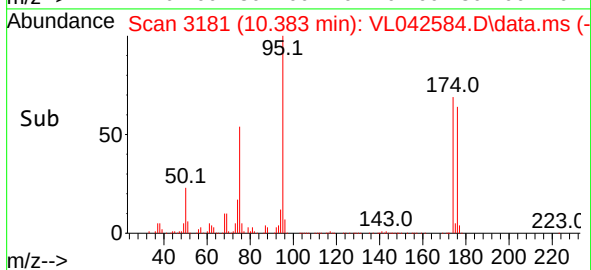
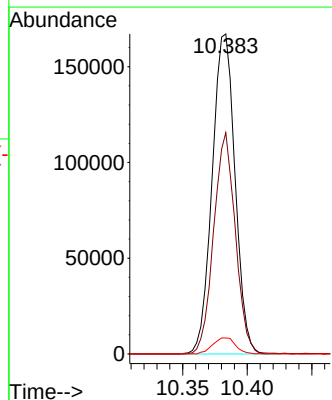
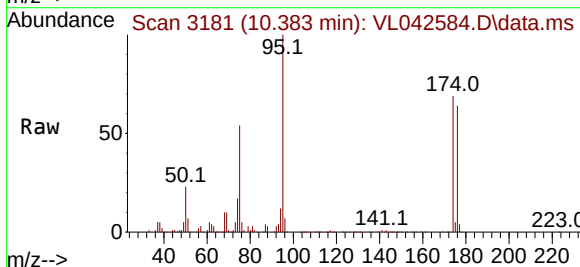
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

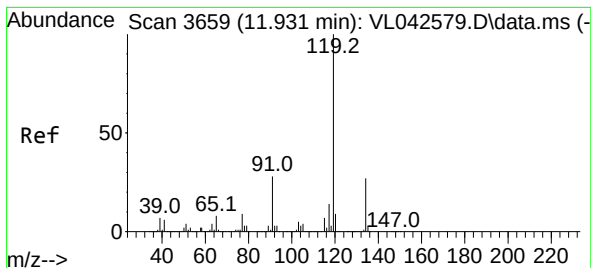
Tgt Ion:105 Resp: 2082
 Ion Ratio Lower Upper
 105 100
 134 29.8 15.8 23.6#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.033 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. 0.003 min
 Lab File: VL042584.D
 Acq: 29 May 2025 13:51

Tgt Ion: 95 Resp: 205981
 Ion Ratio Lower Upper
 95 100
 174 65.5 53.1 79.7
 175 5.1 4.2 6.2





#69

p-Isopropyltoluene

Concen: 0.028 ppbv

RT: 11.931 min Scan# 3659

Delta R.T. 0.000 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

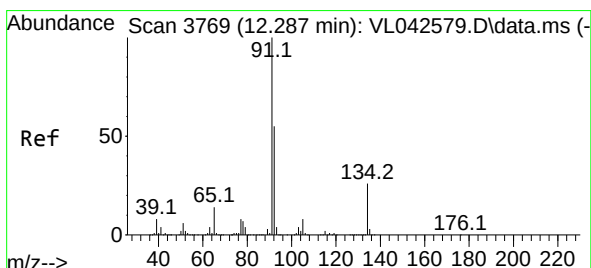
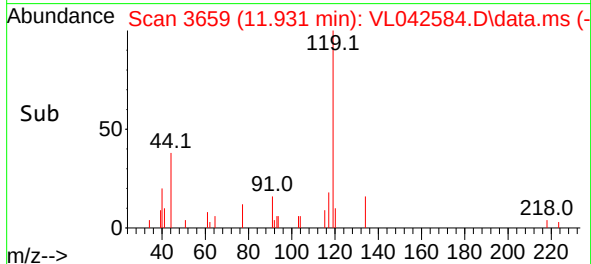
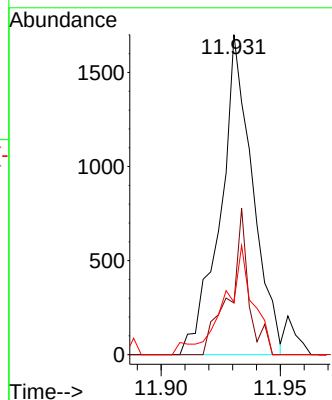
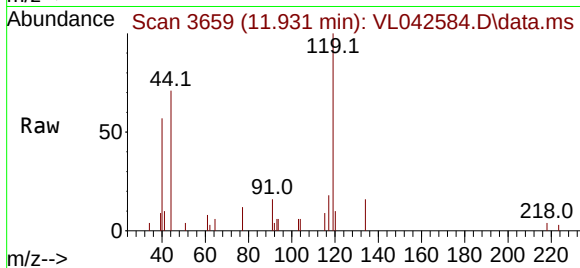
Tgt Ion:119 Resp: 1598

Ion Ratio Lower Upper

119 100

134 27.1 21.1 31.7

91 30.4 21.9 32.9



#70

n-Butylbenzene

Concen: 0.019 ppbv

RT: 12.287 min Scan# 3769

Delta R.T. 0.000 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

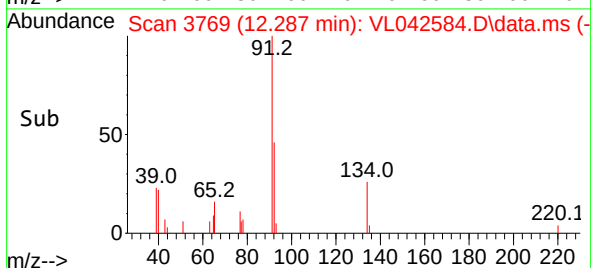
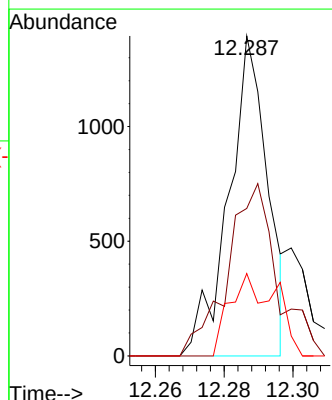
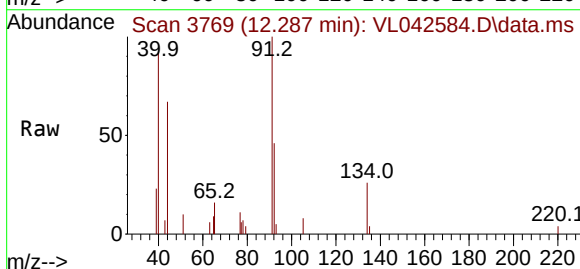
Tgt Ion: 91 Resp: 1095

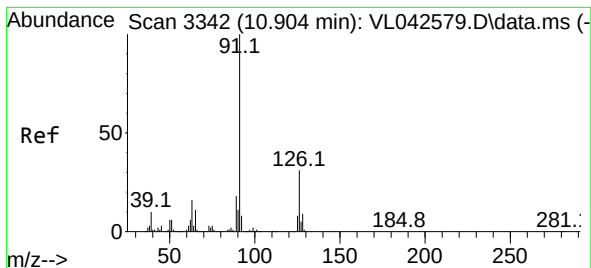
Ion Ratio Lower Upper

91 100

92 73.0 44.4 66.6#

134 32.1 20.1 30.1#

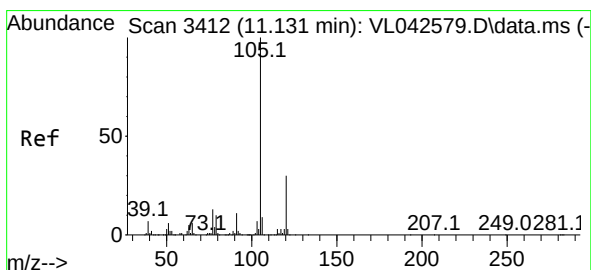
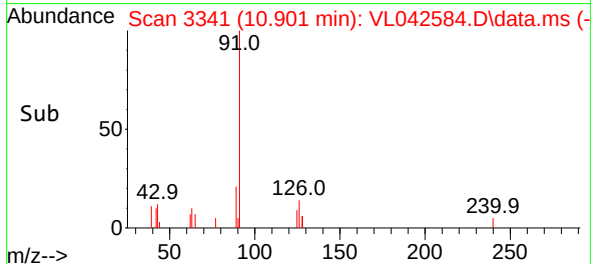
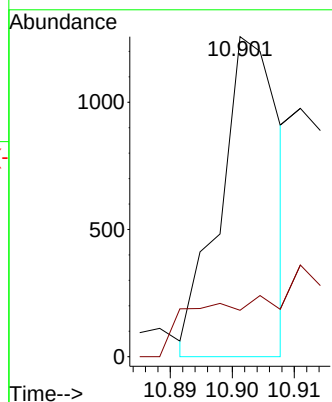
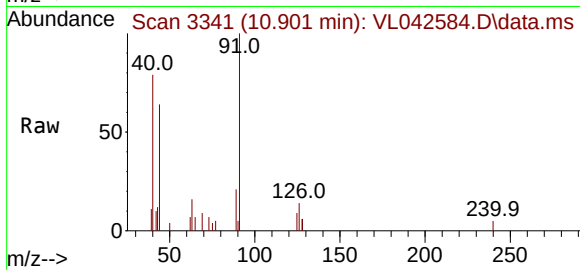




#71
2-Chlorotoluene
Concen: 0.020 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

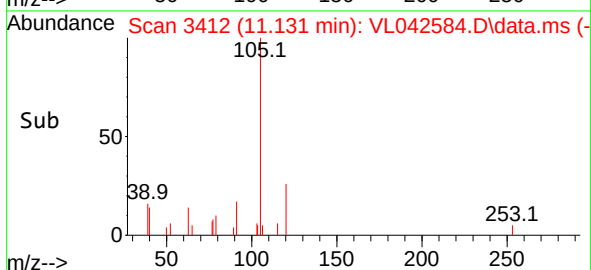
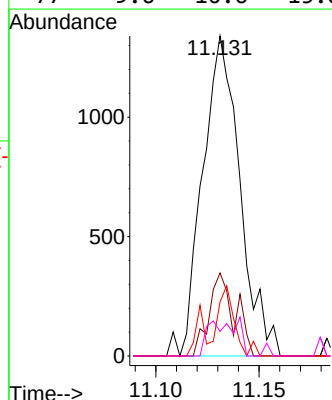
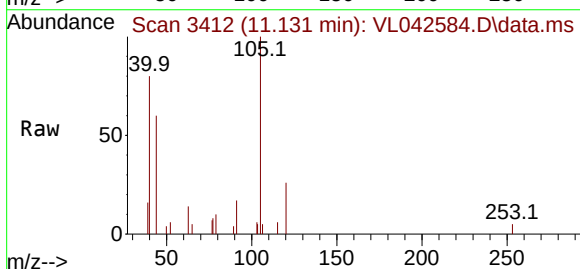
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

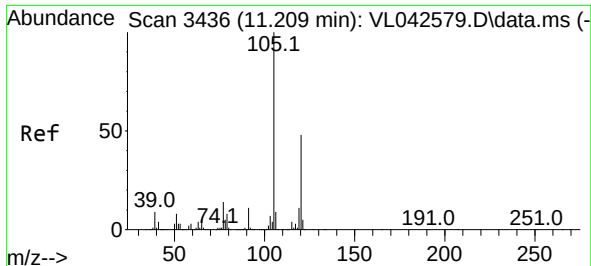
Tgt Ion: 91 Resp: 827
Ion Ratio Lower Upper
91 100
126 0.0 12.6 50.4#



#72
4-Ethyltoluene
Concen: 0.037 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion: 105 Resp: 1671
Ion Ratio Lower Upper
105 100
120 17.9 24.6 36.8#
91 13.7 9.6 14.4
77 9.6 10.6 15.8#

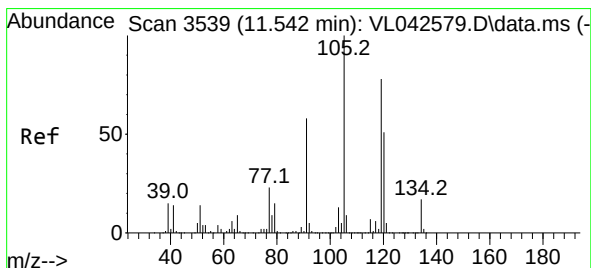
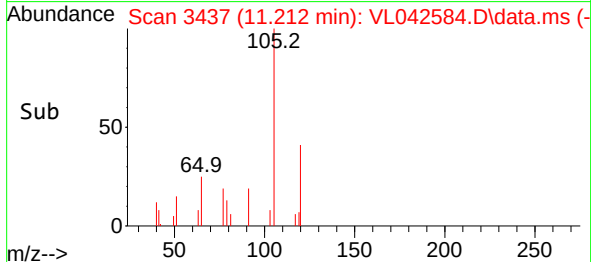
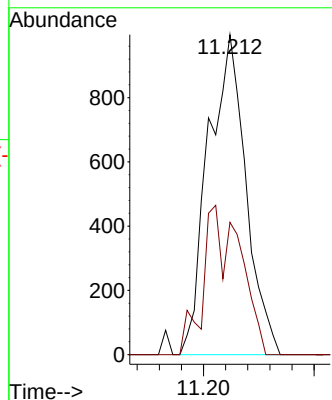
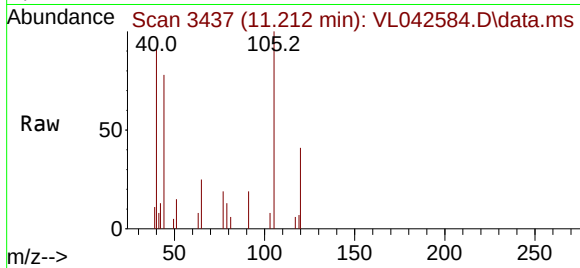




#73
1,3,5-Trimethylbenzene
Concen: 0.031 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

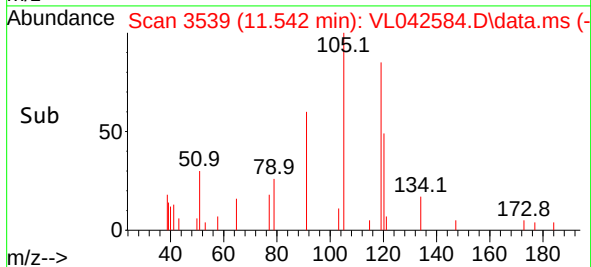
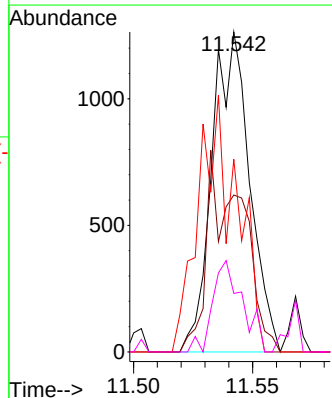
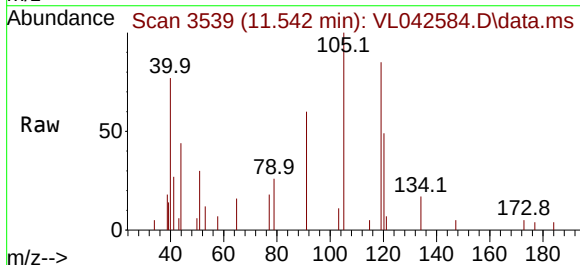
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

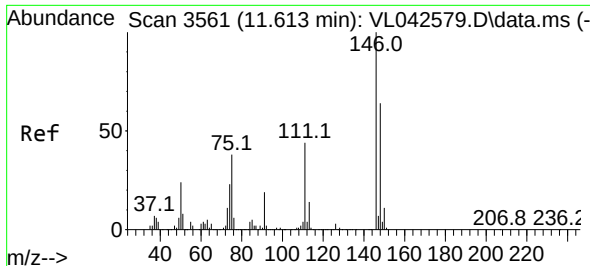
Tgt Ion:105 Resp: 1177
Ion Ratio Lower Upper
105 100
120 41.4 38.8 58.2



#74
1,2,4-Trimethylbenzene
Concen: 0.033 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion:105 Resp: 1387
Ion Ratio Lower Upper
105 100
120 49.1 40.8 61.2
91 60.2 46.8 70.2
77 18.3 18.2 27.2

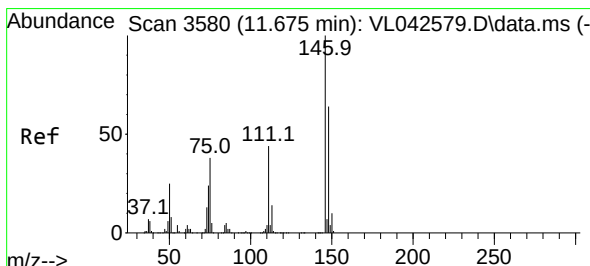
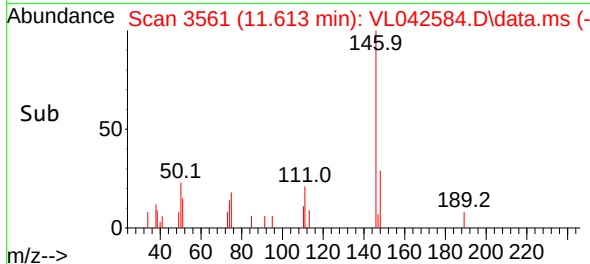
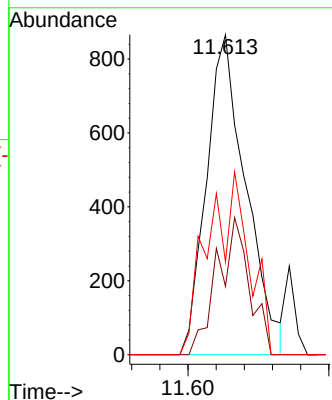
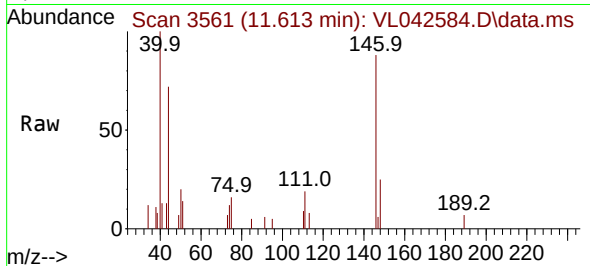




#75
1,3-Dichlorobenzene
Concen: 0.032 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

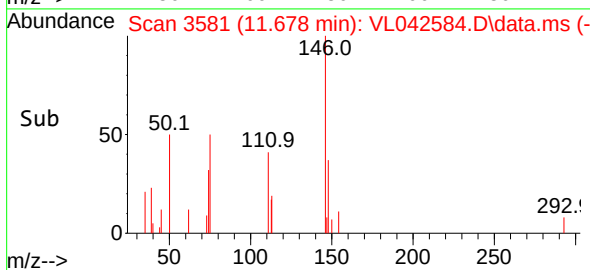
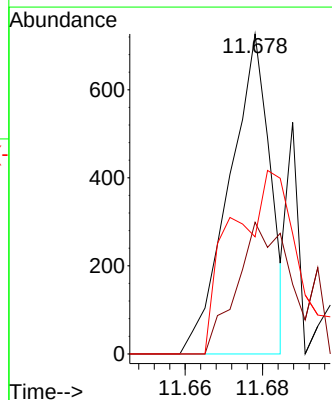
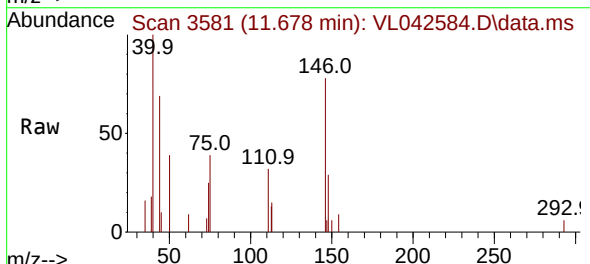
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

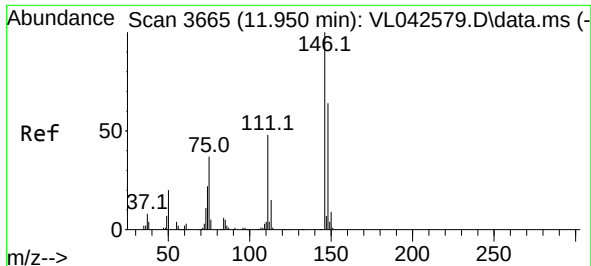
Tgt Ion:	146	Resp:	843
Ion Ratio	Lower	Upper	
146	100		
111	34.8	22.4	67.3
148	59.2	32.0	96.2



#76
1,4-Dichlorobenzene
Concen: 0.021 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.003 min
Lab File: VL042584.D
Acq: 29 May 2025 13:51

Tgt Ion:	146	Resp:	538
Ion Ratio	Lower	Upper	
146	100		
111	58.7	21.6	64.8
148	90.9	32.1	96.5





#77

1,2-Dichlorobenzene

Concen: 0.021 ppbv

RT: 11.678 min Scan# 3

Delta R.T. -0.272 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

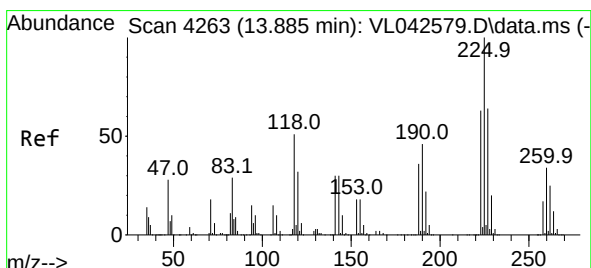
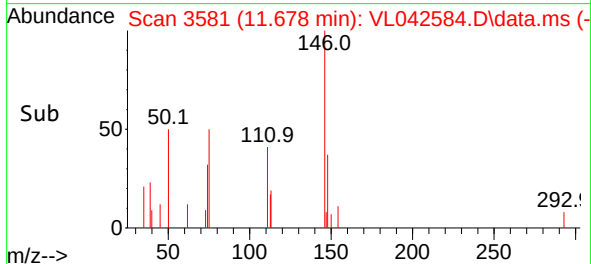
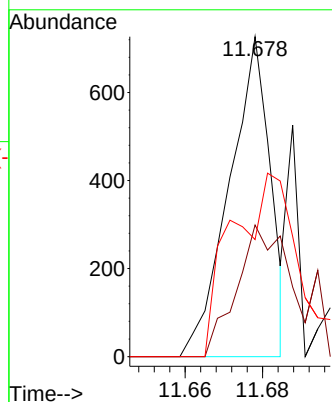
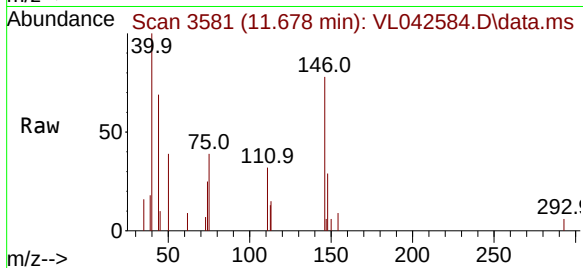
Tgt Ion:146 Resp: 538

Ion Ratio Lower Upper

146 100

111 58.7 23.1 69.3

148 90.9 32.1 96.3



#78

Hexachloro-1,3-Butadiene

Concen: 0.036 ppbv

RT: 13.889 min Scan# 4264

Delta R.T. 0.003 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

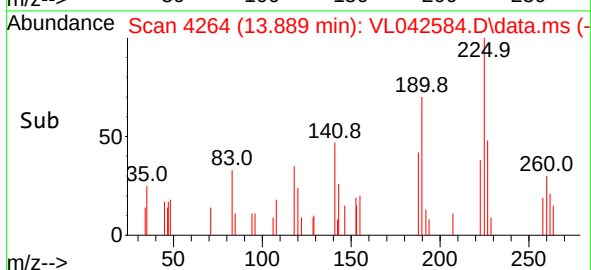
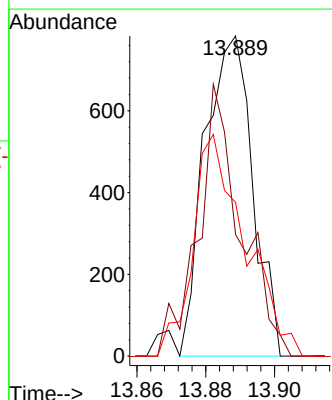
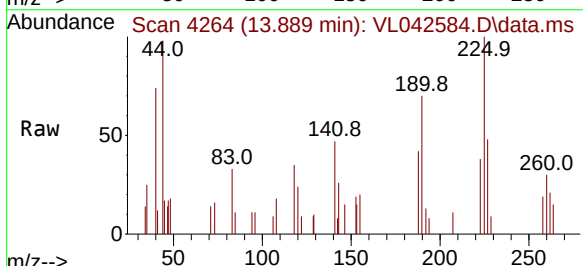
Tgt Ion:225 Resp: 756

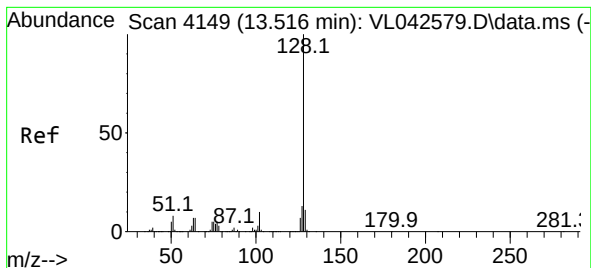
Ion Ratio Lower Upper

225 100

223 76.1 50.2 75.4#

227 75.7 51.1 76.7





#79

Naphthalene

Concen: 0.005 ppbv

RT: 13.513 min Scan# 4149

Delta R.T. -0.003 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

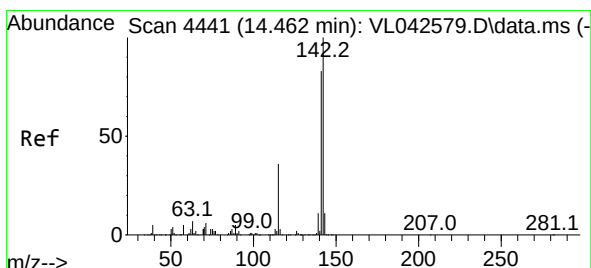
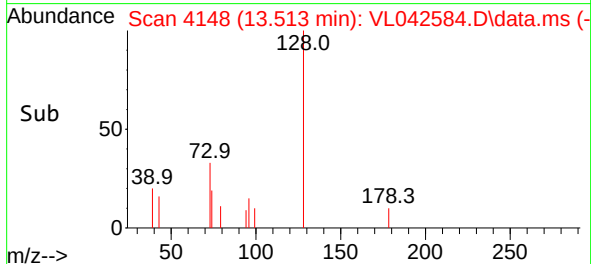
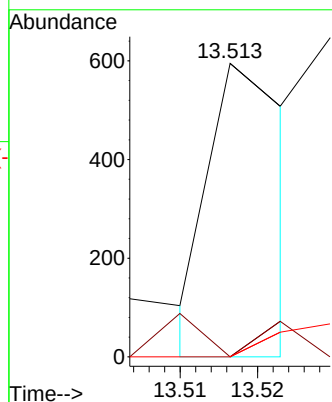
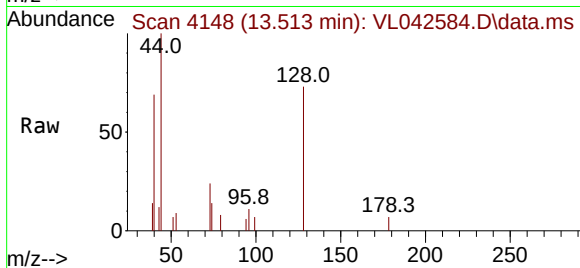
Tgt Ion:128 Resp: 214

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.8 13.2#



#80

Naphthalene,2-methyl-

Concen: 0.012 ppbv

RT: 14.487 min Scan# 4449

Delta R.T. 0.026 min

Lab File: VL042584.D

Acq: 29 May 2025 13:51

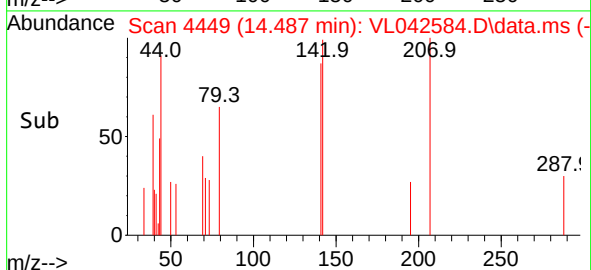
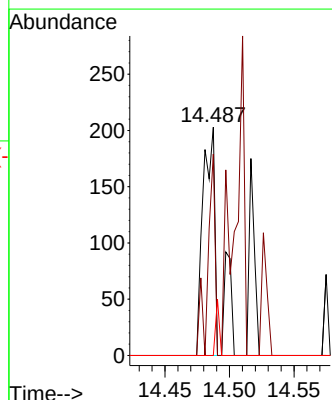
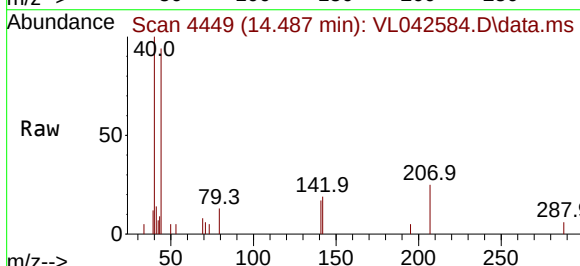
Tgt Ion:142 Resp: 210

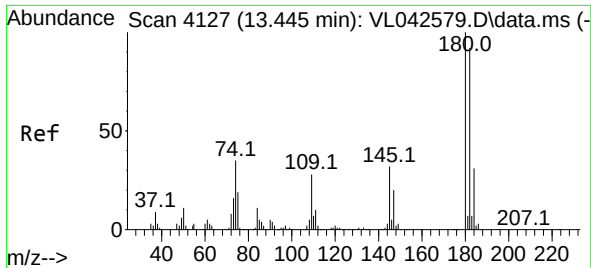
Ion Ratio Lower Upper

142 100

141 111.4 66.2 99.4#

115 4.8 28.3 42.5#





#81

1,2,4-Trichlorobenzene

Concen: 0.016 ppbv

RT: 13.448 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042584.D

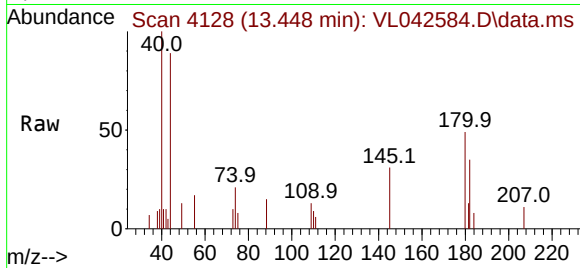
Acq: 29 May 2025 13:51

Instrument :

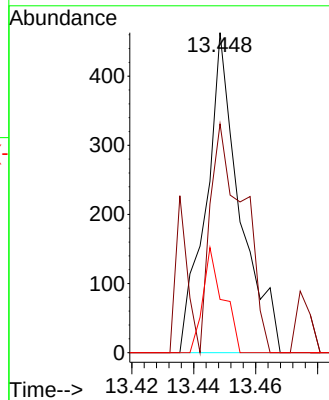
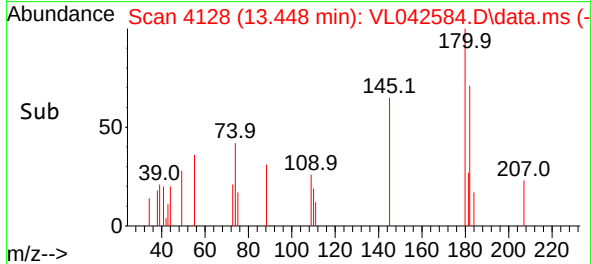
MSVOA_L

ClientSampleId :

VSTDIC0.03



Tgt Ion:	180	Resp:	350
Ion Ratio	Lower	Upper	
180	100		
182	96.0	75.0	112.4
184	19.7	24.6	36.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042585.D
 Acq On : 29 May 2025 14:24
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: May 30 01:21:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103906	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	301797	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	274912	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	207170	10.053	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	171529	13.432	ppbv	98
3) Chlorodifluoromethane	1.476	51	221334	12.584	ppbv	99
4) Chloromethane	1.534	50	67662	13.380	ppbv	99
5) Vinyl Chloride	1.580	62	63738	12.373	ppbv	98
6) Bromomethane	1.667	94	31141	12.420	ppbv	100
7) Chloroethane	1.706	64	25591	12.785	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	140345	13.189	ppbv	99
9) Propene	1.483	41	93357	13.181	ppbv	97
10) Heptane	4.988	43	263111	13.165	ppbv	100
11) Trichlorofluoromethane	1.877	101	162591	13.684	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	127489	13.664	ppbv	99
13) Ethanol	1.722	45	6915	8.746	ppbv	98
14) Bromoethene	1.784	108	47382	13.501	ppbv	99
15) Acetone	1.835	43	141460	11.302	ppbv	98
16) 1,3-Butadiene	1.609	39	74743	12.607	ppbv	100
17) tert-Butyl alcohol	2.042	59	169533	13.002	ppbv	100
18) 1,1-Dichloroethene	2.036	96	56808	13.085	ppbv	99
19) Isopropyl Alcohol	1.887	45	92408	12.351	ppbv	98
20) Methylene Chloride	2.062	84	48862	11.830	ppbv	97
21) Allyl Chloride	2.097	41	116771	13.223	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	65132	13.441	ppbv	97
23) Vinyl Acetate	2.466	43	246907	14.594	ppbv	99
24) 1,1-Dichloroethane	2.411	63	129870	13.067	ppbv	99
25) Ethyl Acetate	2.839	43	457327	13.352	ppbv	99
26) Hexane	2.829	57	200386	12.876	ppbv	99
27) Carbon Disulfide	2.152	76	162143	13.571	ppbv	96
28) Methyl tert-Butyl Ether	2.441	73	79625	12.608	ppbv	100
29) Chloroform	2.852	83	269752	13.328	ppbv	98
30) Cyclohexane	3.861	84	170261	13.196	ppbv	99
31) cis-1,2-Dichloroethene	2.722	61	192562	13.526	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	276026	13.591	ppbv	99
34) 2-Butanone	2.560	43	294628	13.689	ppbv	99
35) Carbon Tetrachloride	3.768	117	277042	13.903	ppbv	98
36) Benzene	3.661	78	404641	13.615	ppbv	99
37) 1,2-Dichloroethane	3.221	62	208081	14.088	ppbv	100
38) Trichloroethene	4.551	130	168824	13.263	ppbv	91
39) 1,2-Dichloropropane	4.318	63	149476	13.606	ppbv	98
40) 1,4-Dioxane	4.590	88	65543	14.035	ppbv #	98
41) Tetrahydrofuran	3.056	42	173023	13.734	ppbv	99
42) Bromodichloromethane	4.493	83	298835	14.245	ppbv	96
43) Methyl Methacrylate	4.887	69	161641	14.033	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	676574	13.319	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	189257	14.338	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042585.D
 Acq On : 29 May 2025 14:24
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

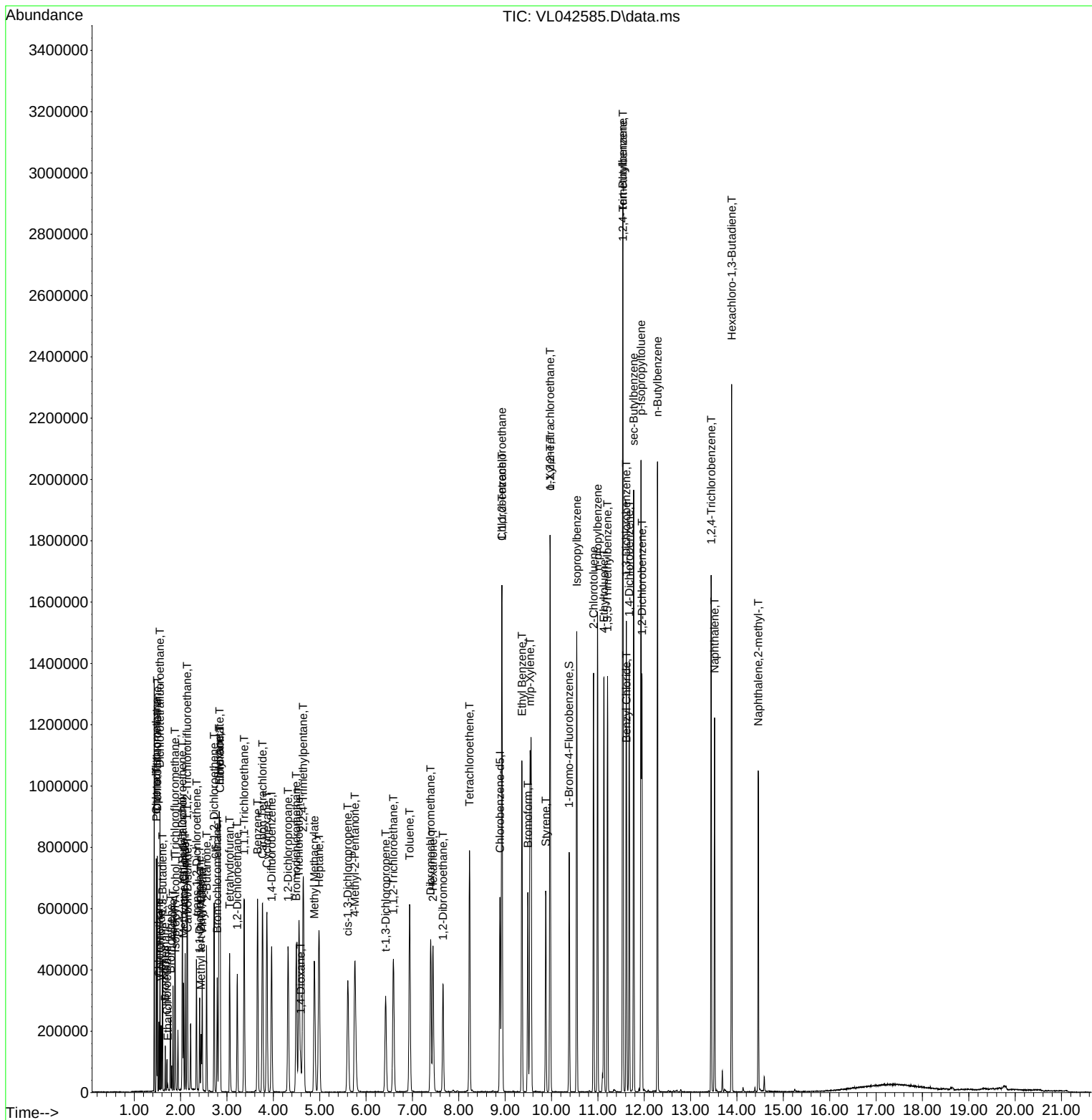
Quant Time: May 30 01:21:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

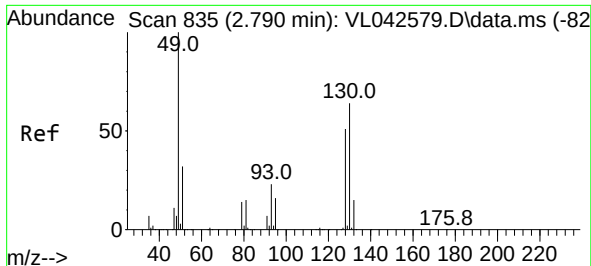
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	236653	14.313	ppbv	94
47) 1,1,2-Trichloroethane	6.590	97	153862	13.524	ppbv	93
48) Dibromochloromethane	7.393	129	258374	14.187	ppbv	100
49) Bromoform	9.490	173	226719	14.427	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	416119	13.882	ppbv	100
51) 2-Hexanone	7.441	43	339220	14.328	ppbv	98
52) Tetrachloroethene	8.231	164	145485	13.098	ppbv	99
53) Toluene	6.939	91	470632	13.702	ppbv	100
54) 1,2-Dibromoethane	7.661	107	232051	13.758	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.930	131	191145	13.828	ppbv	99
57) Chlorobenzene	8.930	112	356655	13.361	ppbv	98
58) Ethyl Benzene	9.361	91	637083	13.662	ppbv	99
59) m/p-Xylene	9.539	91	523032	14.249	ppbv #	29
60) o-Xylene	9.969	91	490036	13.389	ppbv	98
61) Styrene	9.875	104	245714	14.199	ppbv	100
62) Isopropylbenzene	10.545	105	722166	13.356	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	299633	12.875	ppbv	99
64) n-propylbenzene	10.995	120	195952	13.519	ppbv	97
65) tert-Butylbenzene	11.536	119	634159	12.924	ppbv	99
66) Benzyl Chloride	11.620	91	90617	14.320	ppbv	99
67) sec-Butylbenzene	11.772	105	892638	12.939	ppbv	100
69) p-Isopropyltoluene	11.930	119	763150	13.210	ppbv	100
70) n-Butylbenzene	12.286	91	764173	13.401	ppbv	99
71) 2-Chlorotoluene	10.908	91	552265	13.390	ppbv	100
72) 4-Ethyltoluene	11.131	105	616187	13.504	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	509801	13.498	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	538704	12.854	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	347478	13.203	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	350757	13.363	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	326960	12.800	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	244375	11.563	ppbv	98
79) Naphthalene	13.516	128	563437	14.318	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	306586	17.196	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	299869	13.598	ppbv	99

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: May 30 01:21:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

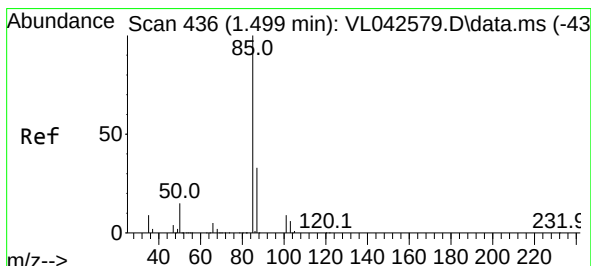
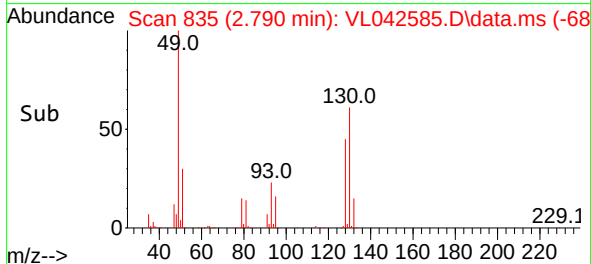
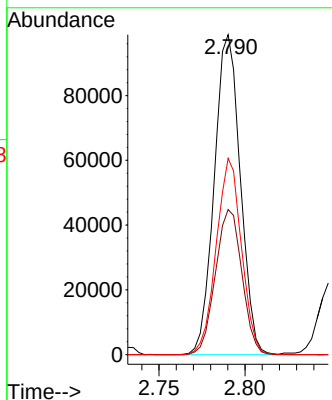
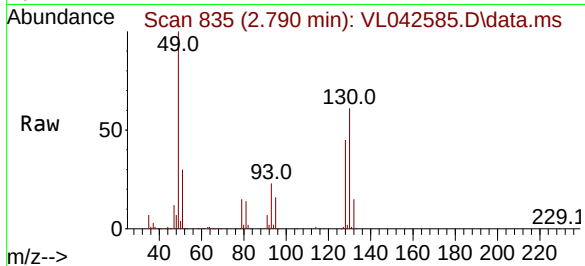




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

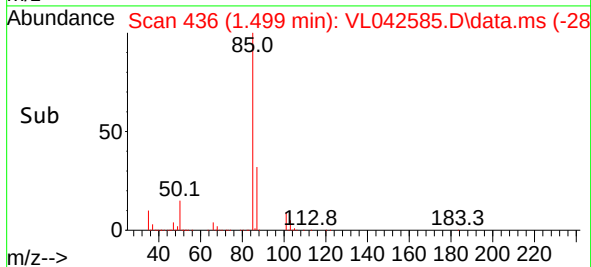
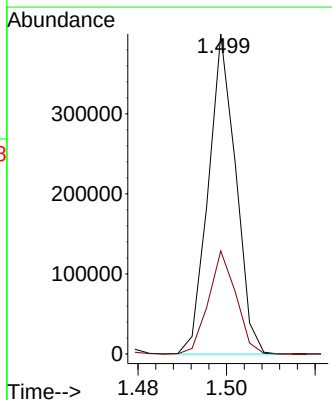
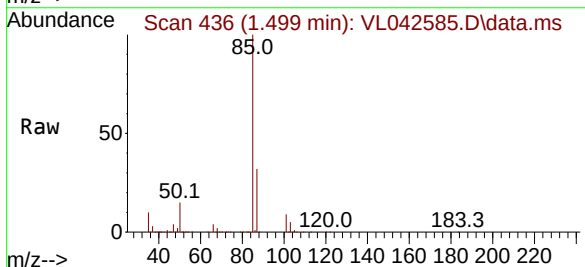
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

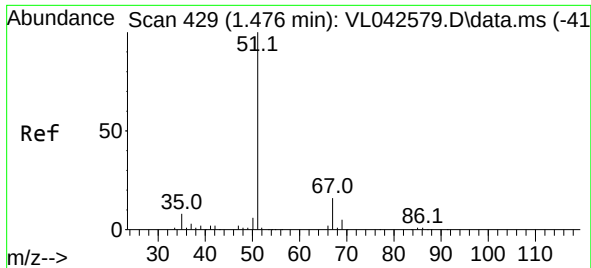
Tgt Ion: 49 Resp: 103906
Ion Ratio Lower Upper
49 100
128 46.1 24.2 72.6
130 59.5 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 13.432 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 85 Resp: 171529
Ion Ratio Lower Upper
85 100
87 32.2 26.6 39.8





#3

Chlorodifluoromethane

Concen: 12.584 ppbv

RT: 1.476 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

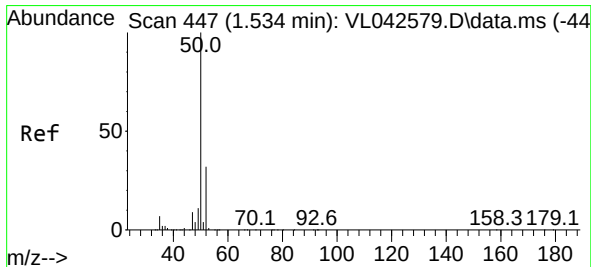
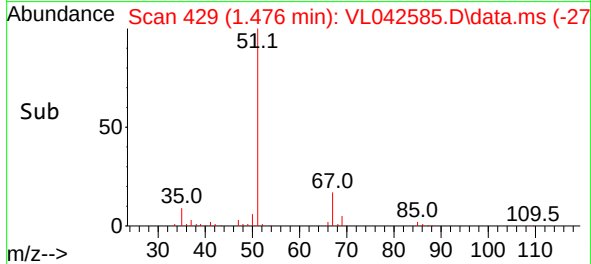
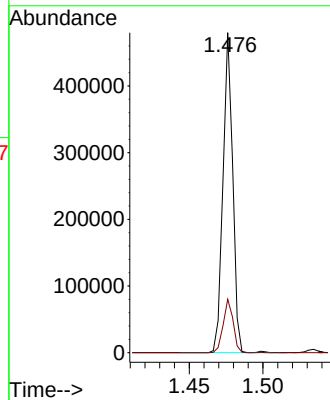
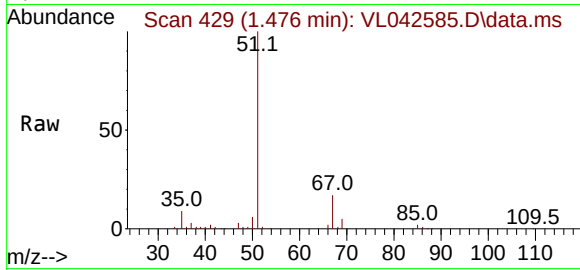
VSTDIC015

Tgt Ion: 51 Resp: 221334

Ion Ratio Lower Upper

51 100

67 17.1 13.4 20.2



#4

Chloromethane

Concen: 13.380 ppbv

RT: 1.534 min Scan# 447

Delta R.T. -0.000 min

Lab File: VL042585.D

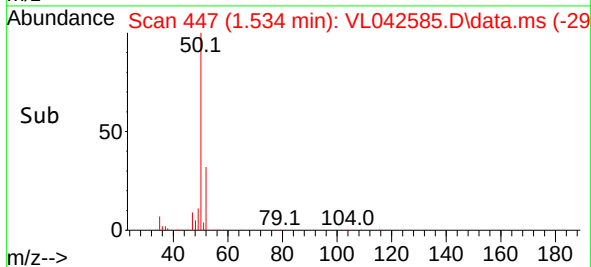
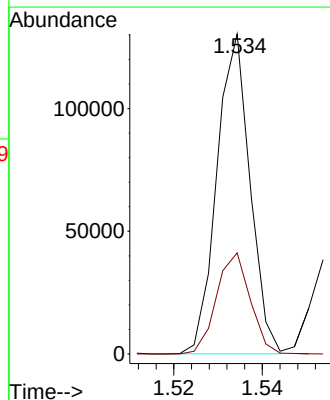
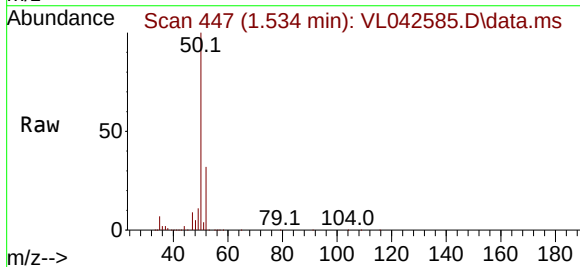
Acq: 29 May 2025 14:24

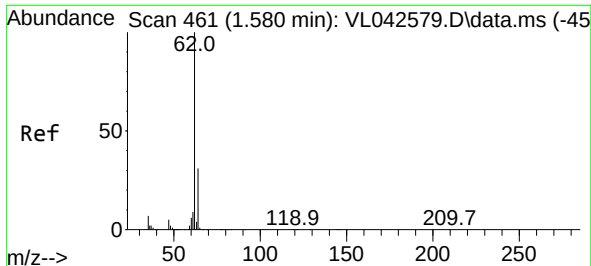
Tgt Ion: 50 Resp: 67662

Ion Ratio Lower Upper

50 100

52 31.7 25.8 38.6

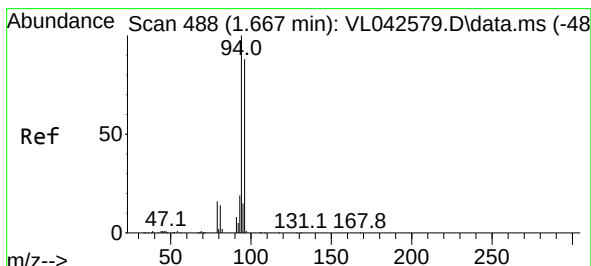
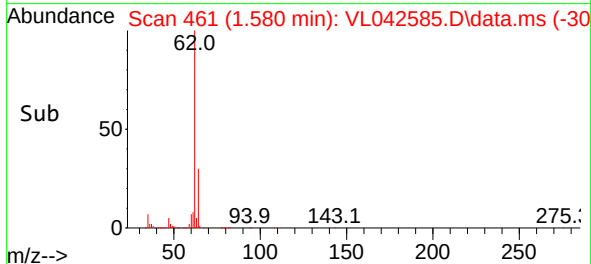
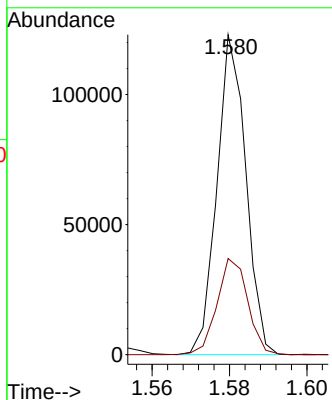
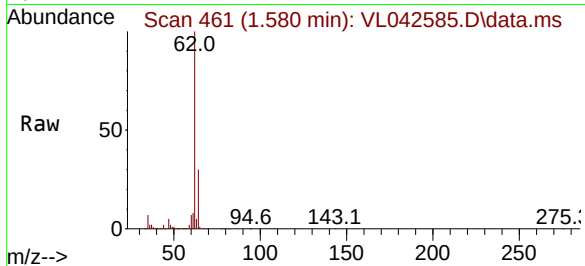




#5
 Vinyl Chloride
 Concen: 12.373 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

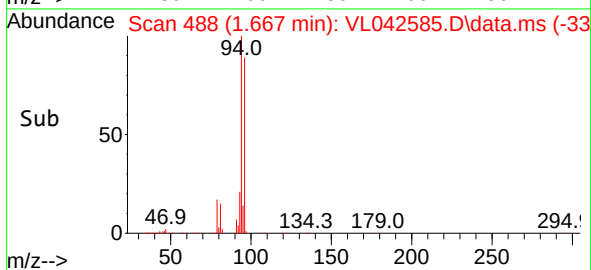
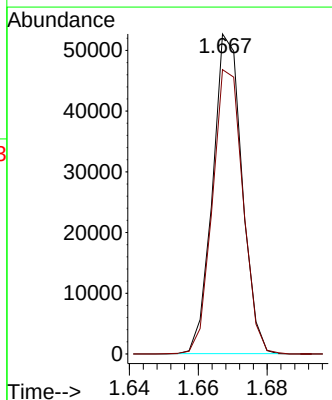
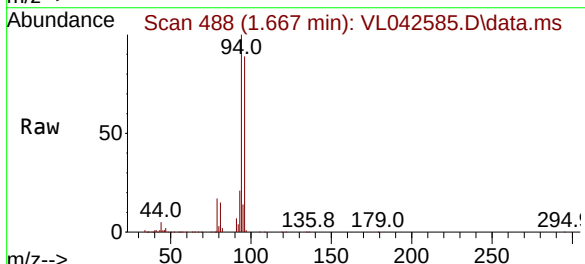
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

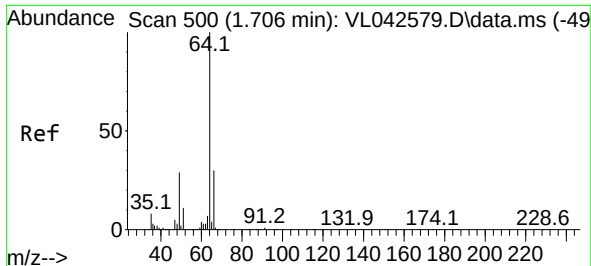
Tgt Ion: 62 Resp: 63738
 Ion Ratio Lower Upper
 62 100
 64 30.0 24.9 37.3



#6
 Bromomethane
 Concen: 12.420 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

Tgt Ion: 94 Resp: 31141
 Ion Ratio Lower Upper
 94 100
 96 88.7 70.7 106.1

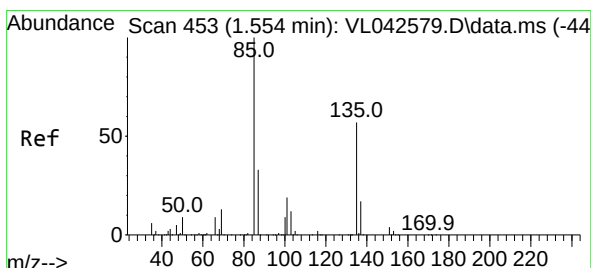
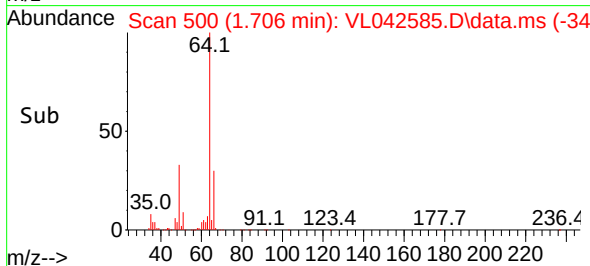
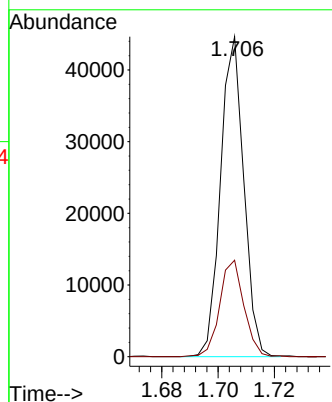
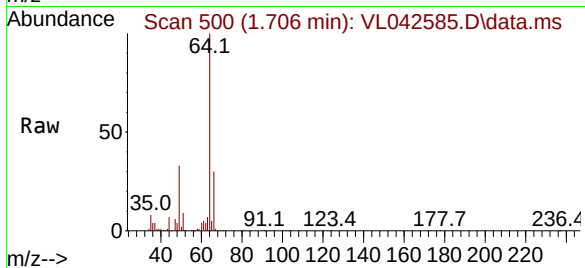




#7
Chloroethane
Concen: 12.785 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

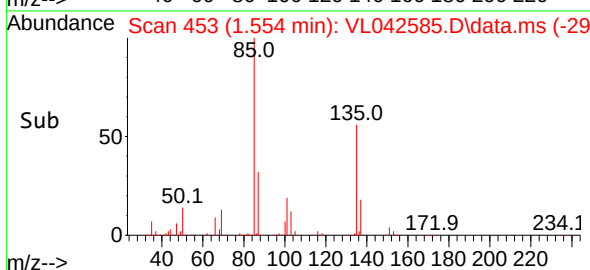
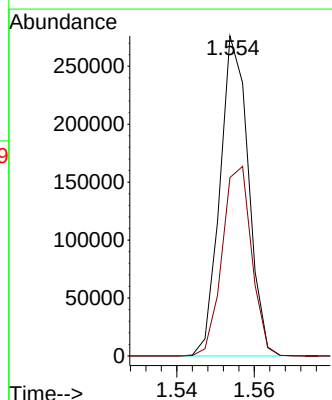
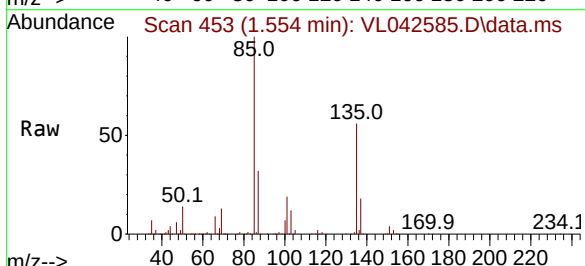
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

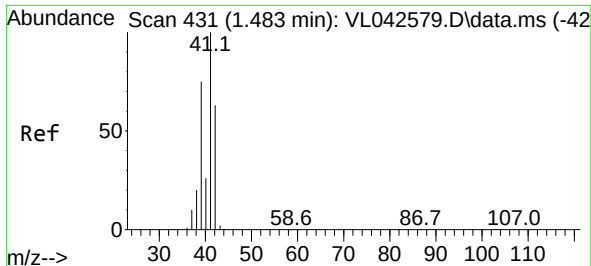
Tgt Ion: 64 Resp: 25591
Ion Ratio Lower Upper
64 100
66 30.2 24.3 36.5



#8
Dichlorotetrafluoroethane
Concen: 13.189 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 85 Resp: 140345
Ion Ratio Lower Upper
85 100
135 61.7 50.2 75.4





#9

Propene

Concen: 13.181 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

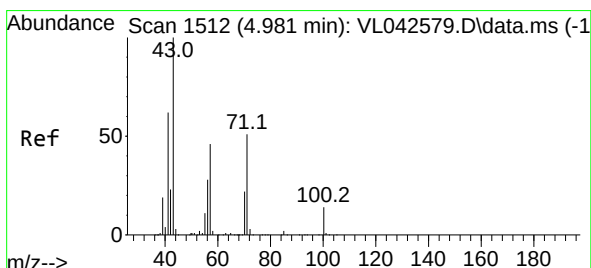
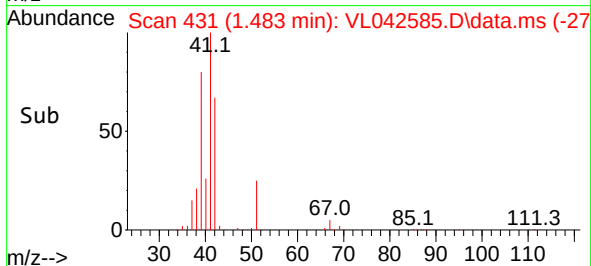
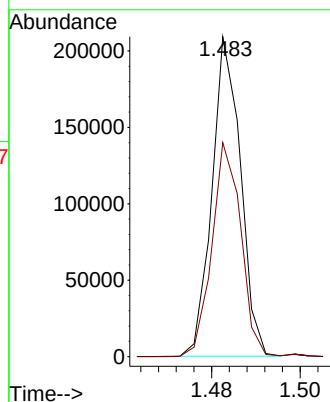
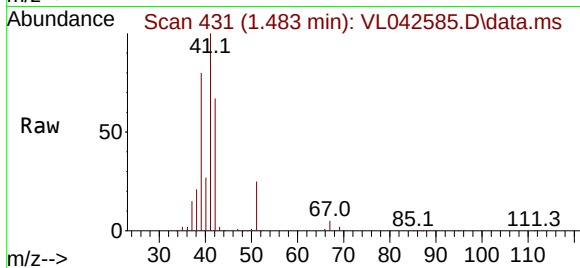
VSTDIC015

Tgt Ion: 41 Resp: 93357

Ion Ratio Lower Upper

41 100

42 68.6 53.3 79.9



#10

Heptane

Concen: 13.165 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.006 min

Lab File: VL042585.D

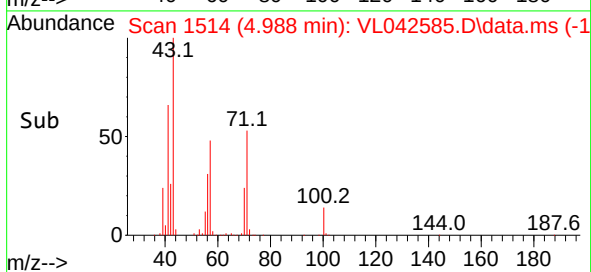
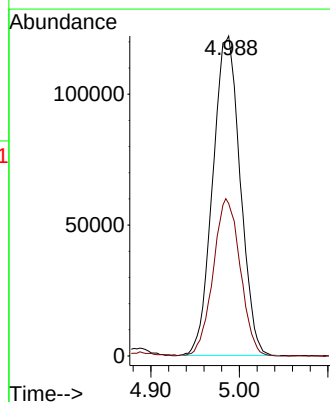
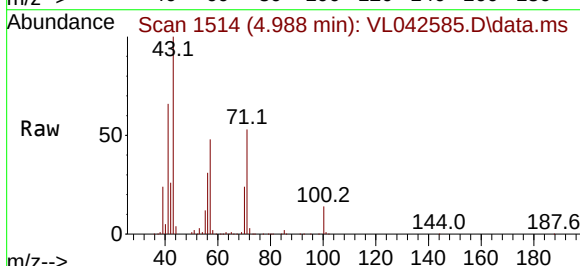
Acq: 29 May 2025 14:24

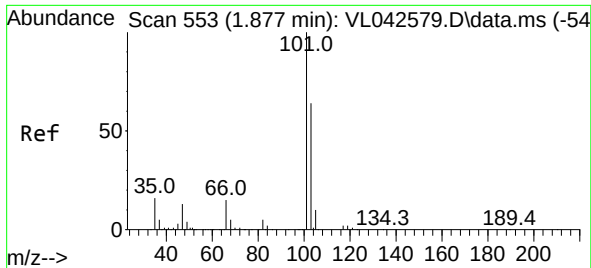
Tgt Ion: 43 Resp: 263111

Ion Ratio Lower Upper

43 100

57 48.6 38.9 58.3

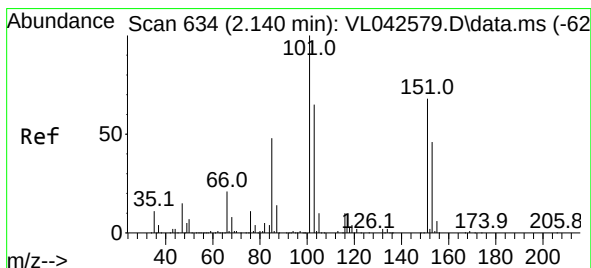
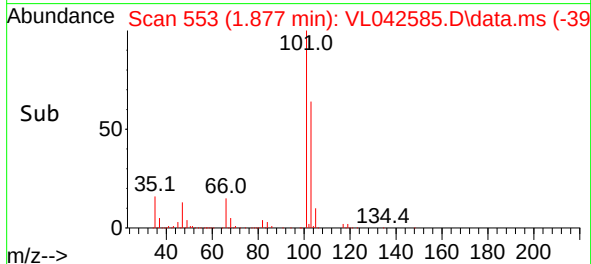
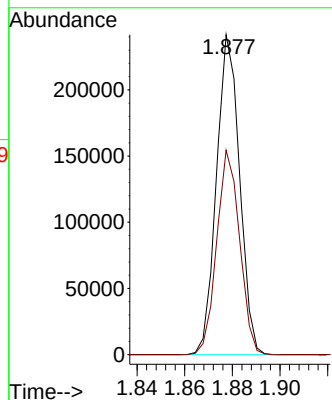
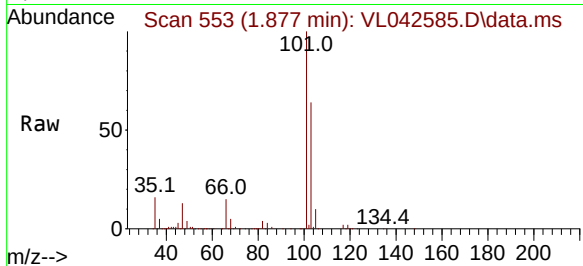




#11
 Trichlorofluoromethane
 Concen: 13.684 ppbv
 RT: 1.877 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

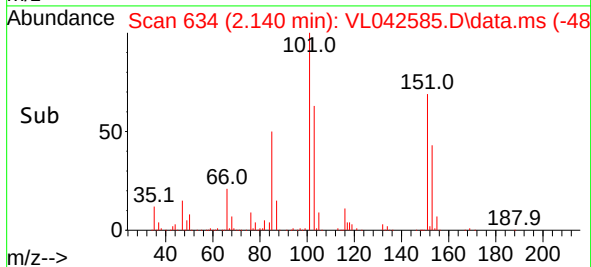
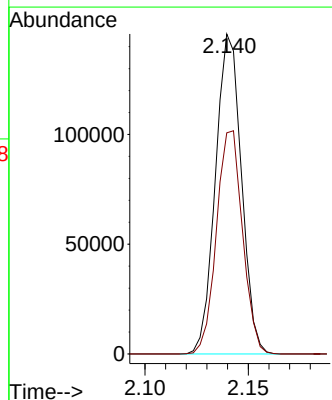
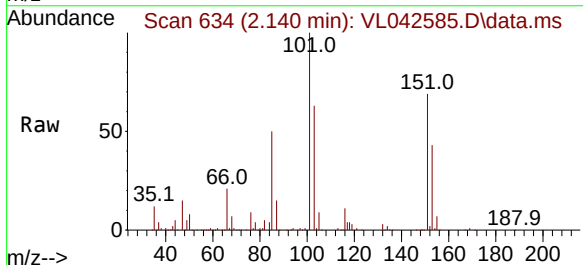
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

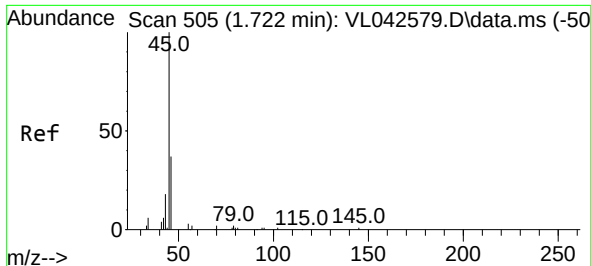
Tgt Ion:101 Resp: 162591
 Ion Ratio Lower Upper
 101 100
 103 63.9 51.5 77.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.664 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

Tgt Ion:101 Resp: 127489
 Ion Ratio Lower Upper
 101 100
 151 70.0 55.3 82.9

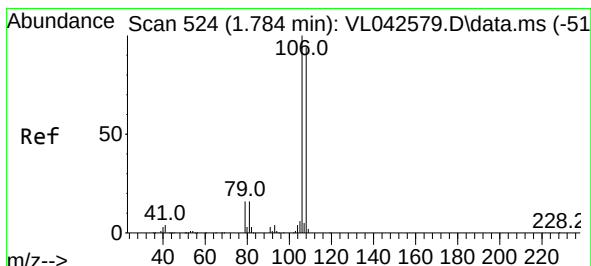
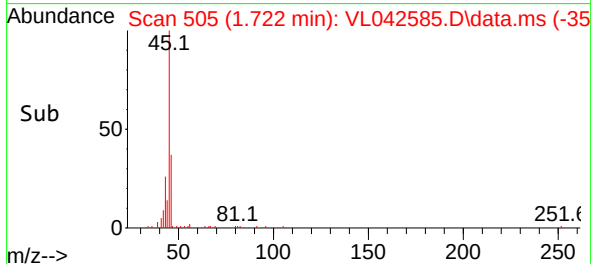
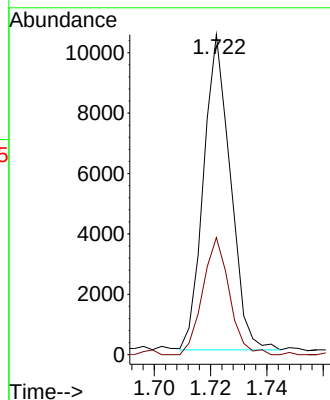
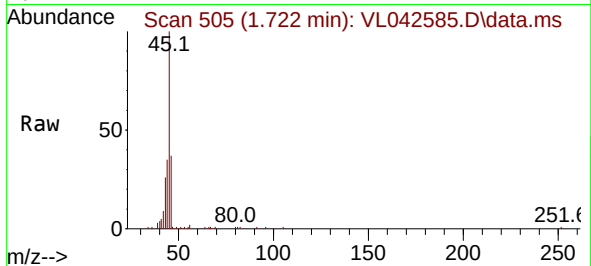




#13
 Ethanol
 Concen: 8.746 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

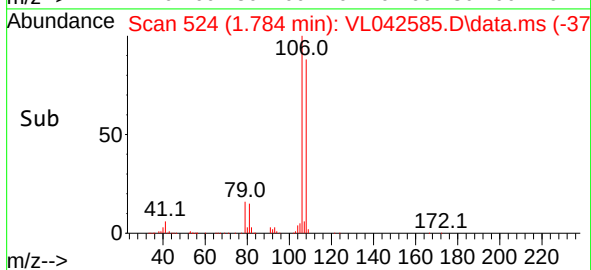
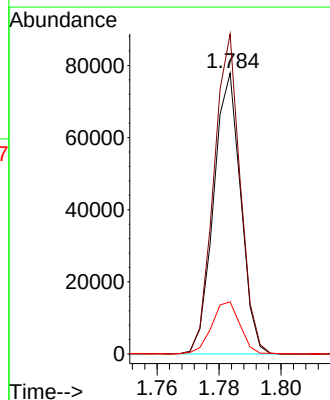
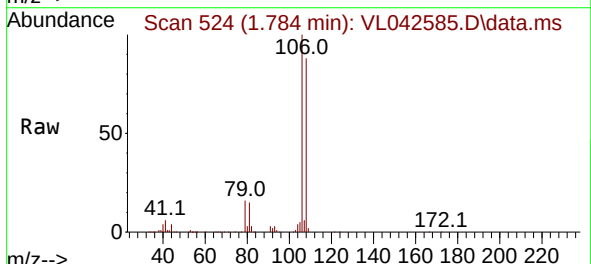
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

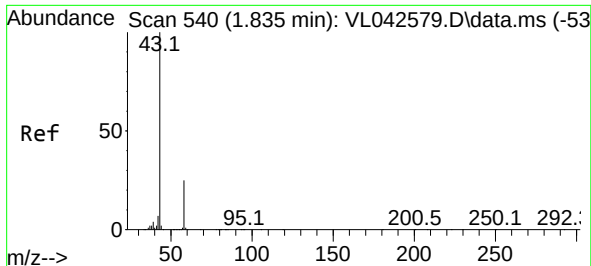
Tgt Ion: 45 Resp: 6915
 Ion Ratio Lower Upper
 45 100
 46 37.8 14.5 58.1



#14
 Bromoethene
 Concen: 13.501 ppbv
 RT: 1.784 min Scan# 524
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

Tgt Ion: 108 Resp: 47382
 Ion Ratio Lower Upper
 108 100
 106 110.7 87.9 131.9
 79 19.8 15.6 23.4

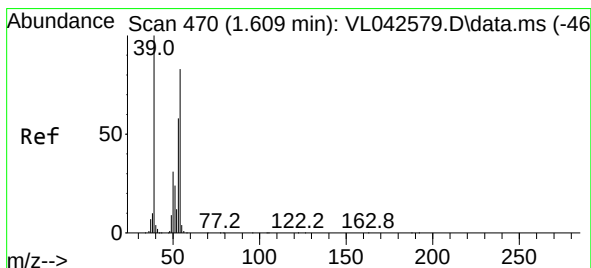
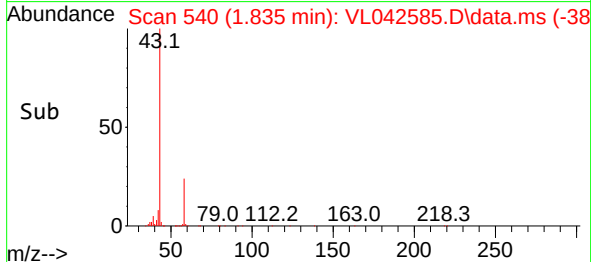
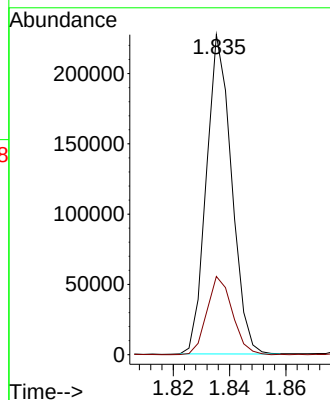
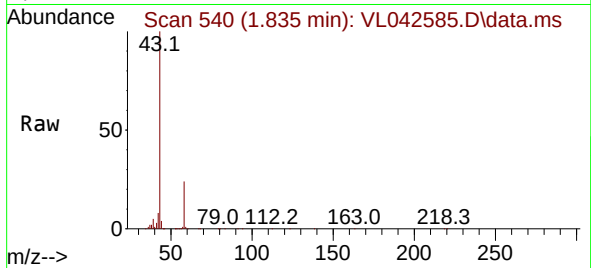




#15
Acetone
Concen: 11.302 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

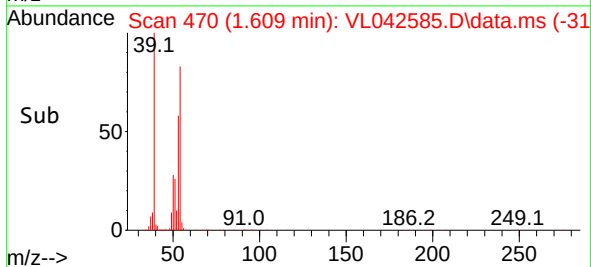
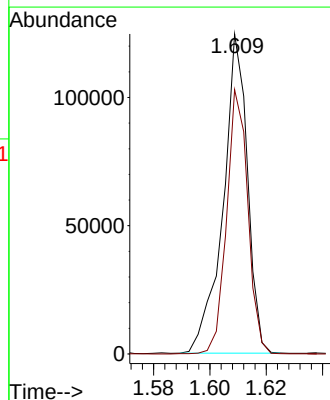
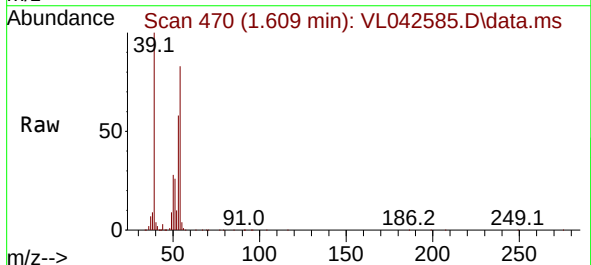
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

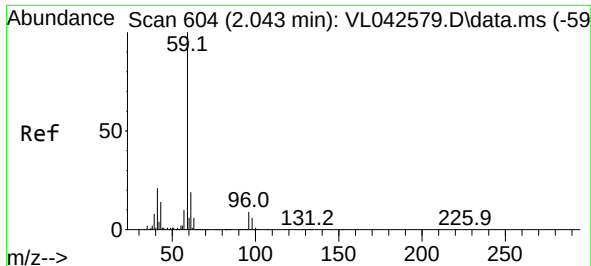
Tgt Ion: 43 Resp: 141460
Ion Ratio Lower Upper
43 100
58 25.0 21.0 31.4



#16
1,3-Butadiene
Concen: 12.607 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 39 Resp: 74743
Ion Ratio Lower Upper
39 100
54 72.1 57.9 86.9

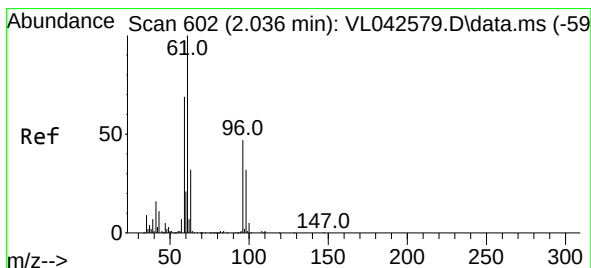
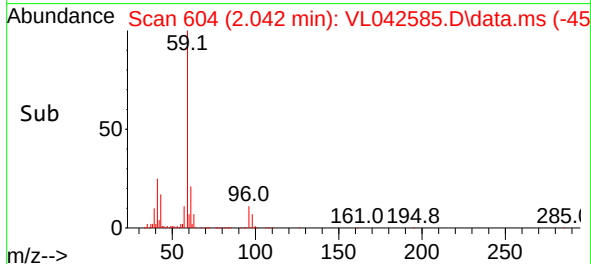
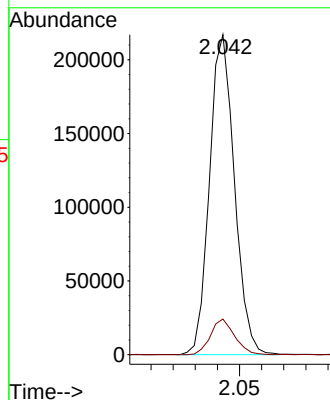
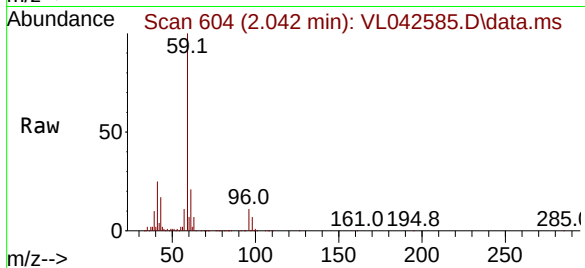




#17
tert-Butyl alcohol
Concen: 13.002 ppbv
RT: 2.042 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

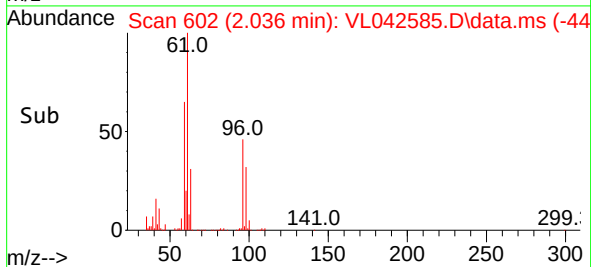
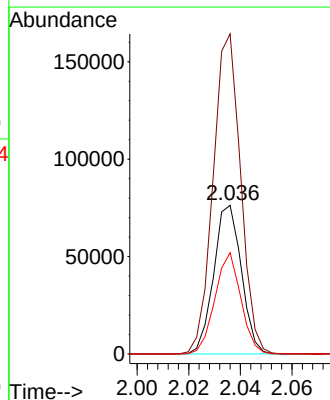
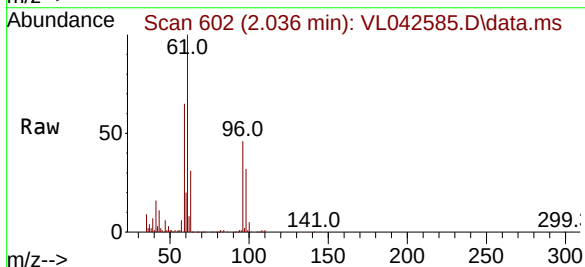
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

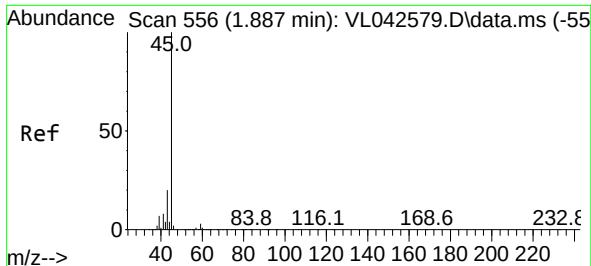
Tgt Ion: 59 Resp: 169533
Ion Ratio Lower Upper
59 100
57 10.8 8.6 12.8



#18
1,1-Dichloroethene
Concen: 13.085 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 96 Resp: 56808
Ion Ratio Lower Upper
96 100
61 215.1 171.1 256.7
98 68.1 54.4 81.6

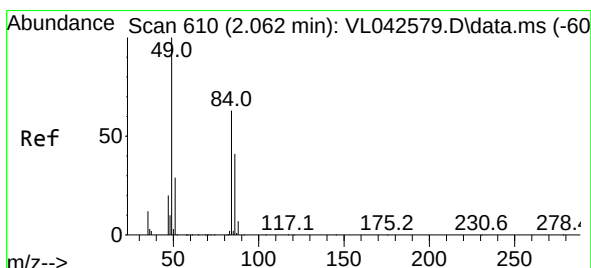
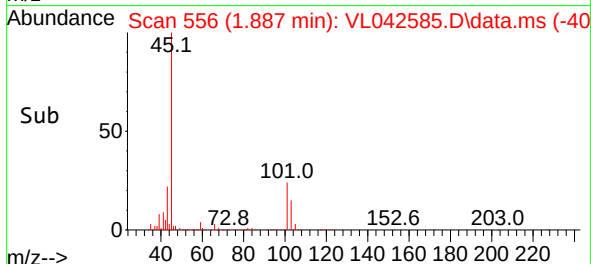
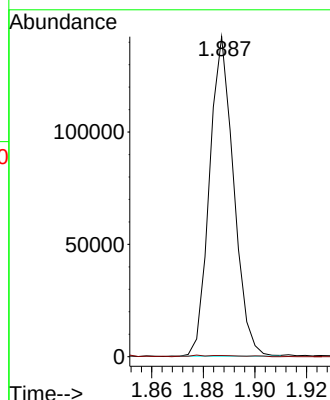
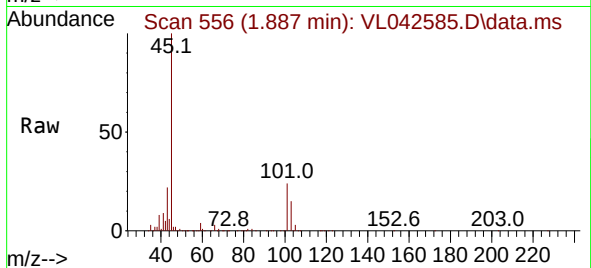




#19
Isopropyl Alcohol
Concen: 12.351 ppbv
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

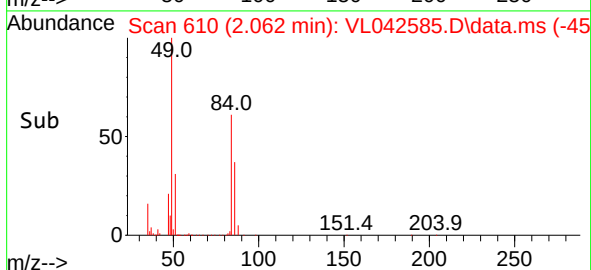
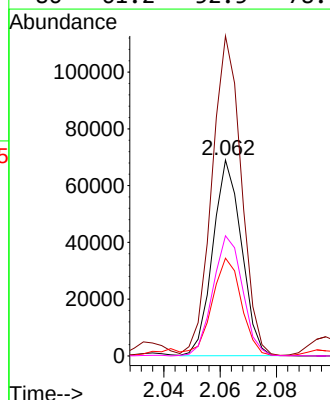
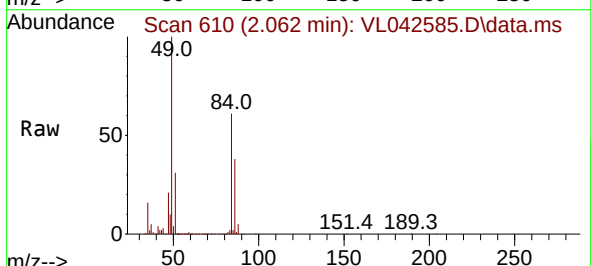
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

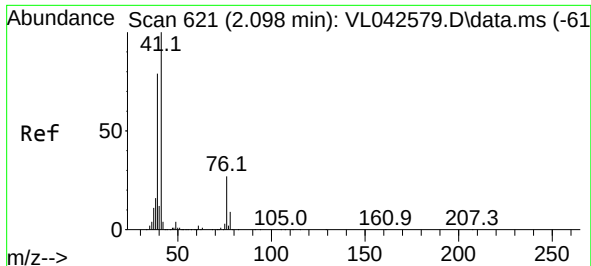
Tgt Ion: 45 Resp: 92408
Ion Ratio Lower Upper
45 100
58 38.2 29.4 44.2



#20
Methylene Chloride
Concen: 11.830 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 84 Resp: 48862
Ion Ratio Lower Upper
84 100
49 163.3 128.8 193.2
51 49.6 38.6 57.8
86 61.2 52.5 78.7

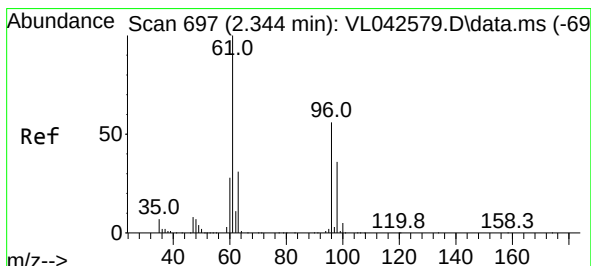
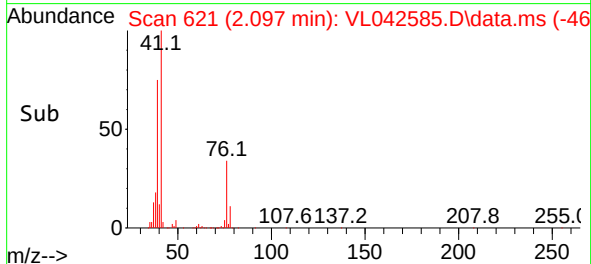
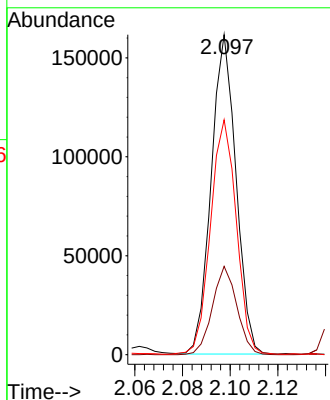
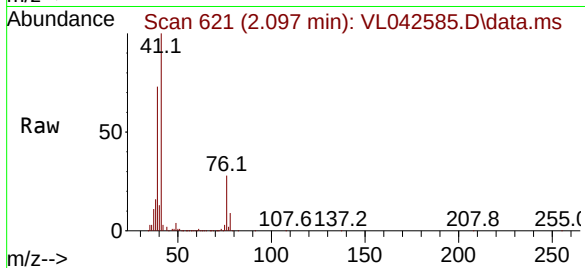




#21
 Allyl Chloride
 Concen: 13.223 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

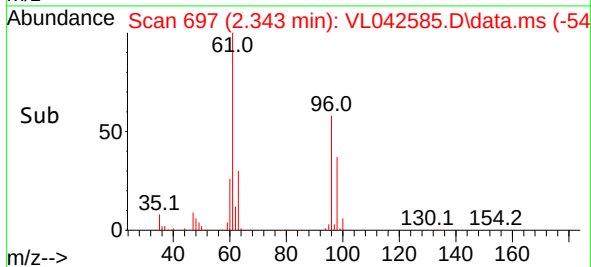
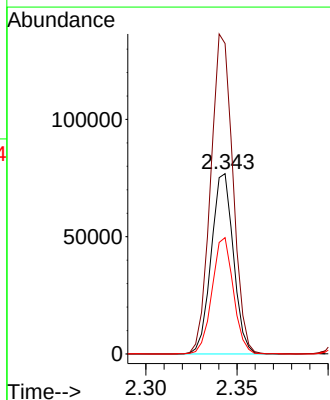
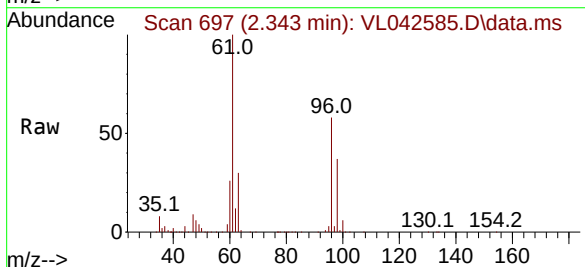
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

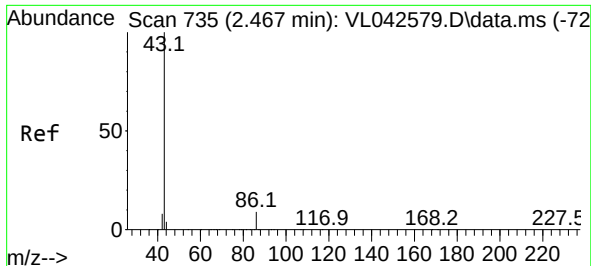
Tgt Ion: 41 Resp: 116771
 Ion Ratio Lower Upper
 41 100
 76 27.2 21.2 31.8
 39 76.1 60.9 91.3



#22
 trans-1,2-Dichloroethene
 Concen: 13.441 ppbv
 RT: 2.343 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

Tgt Ion: 96 Resp: 65132
 Ion Ratio Lower Upper
 96 100
 61 172.1 142.6 214.0
 98 64.3 51.0 76.4



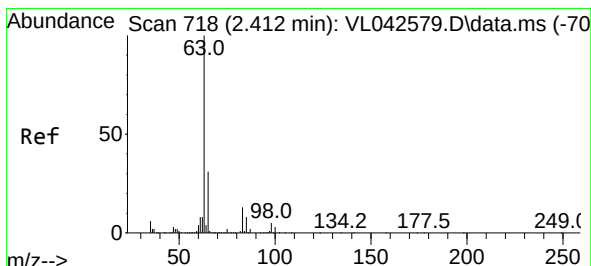
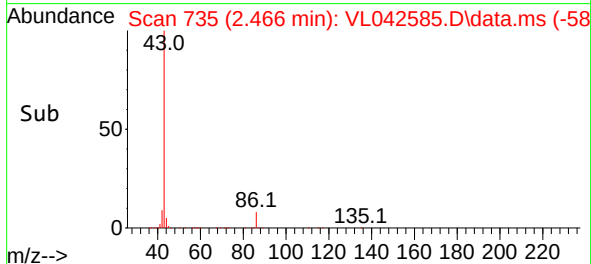
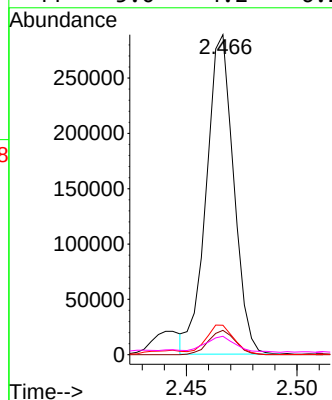
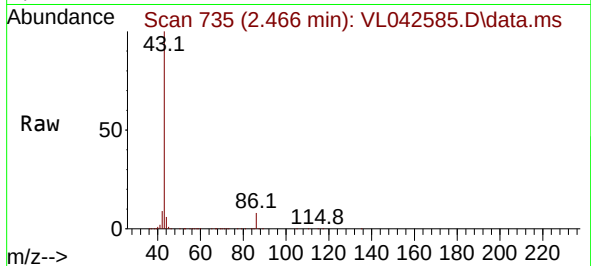


#23
 Vinyl Acetate
 Concen: 14.594 ppbv
 RT: 2.466 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

Tgt Ion: 43 Resp: 246907

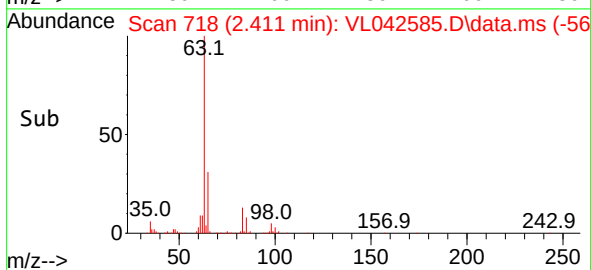
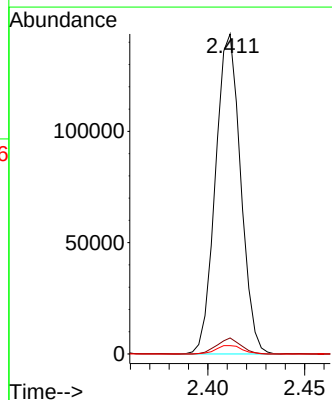
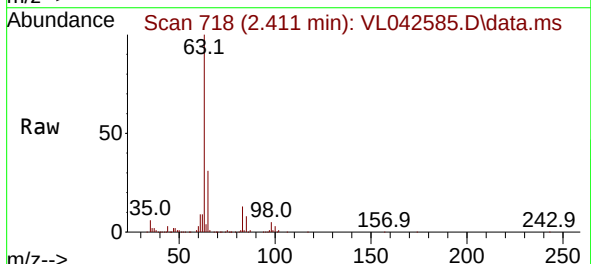
Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.6	9.8
42	9.2	7.0	10.4
44	5.0	4.2	6.2

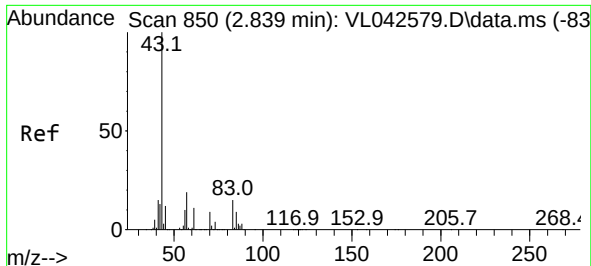


#24
 1,1-Dichloroethane
 Concen: 13.067 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

Tgt Ion: 63 Resp: 129870

Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.4	7.1
100	2.6	1.4	4.0



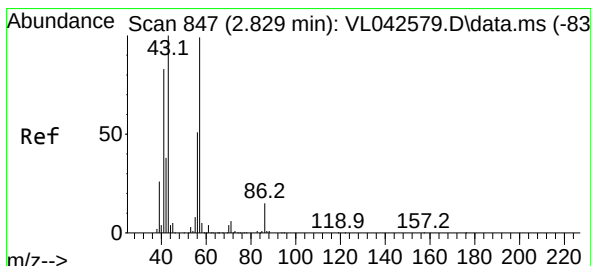
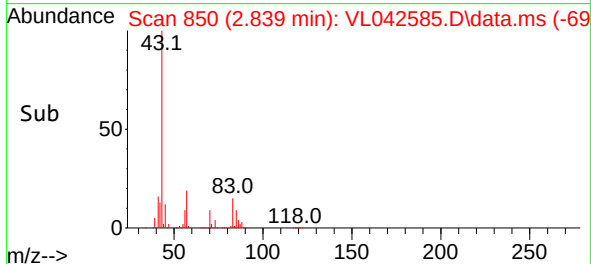
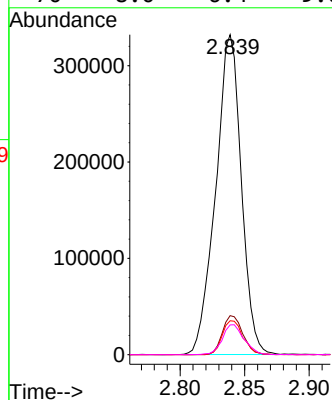
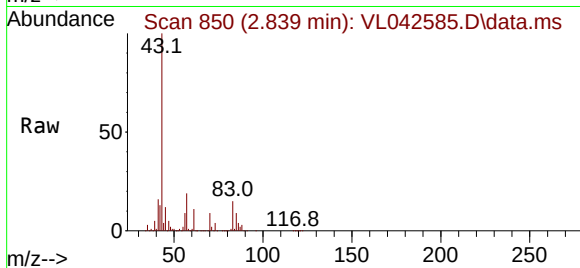


#25
Ethyl Acetate
Concen: 13.352 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 457327

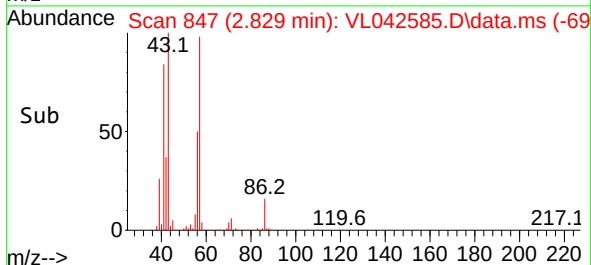
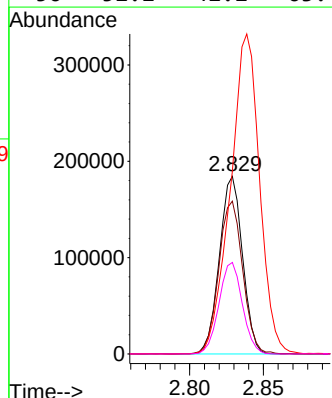
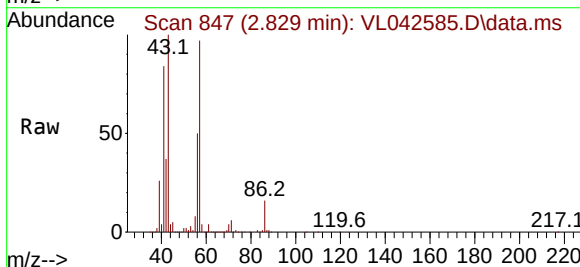
Ion	Ratio	Lower	Upper
43	100		
45	9.8	8.2	12.2
61	8.7	7.1	10.7
70	8.0	6.4	9.6

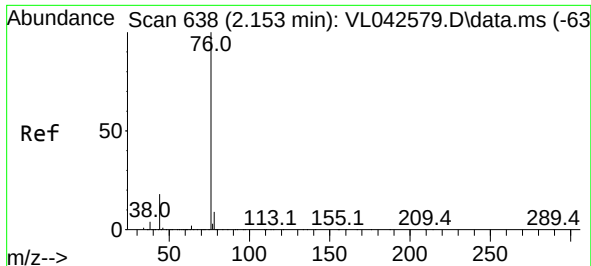


#26
Hexane
Concen: 12.876 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 57 Resp: 200386

Ion	Ratio	Lower	Upper
57	100		
41	89.6	70.6	106.0
43	229.1	181.1	271.7
56	52.2	42.2	63.4

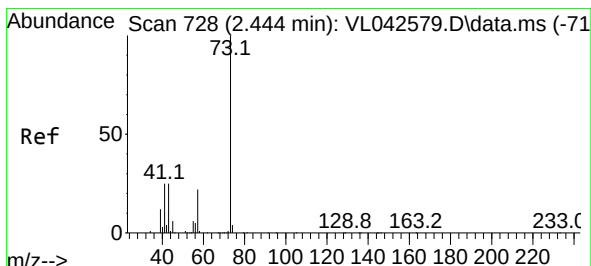
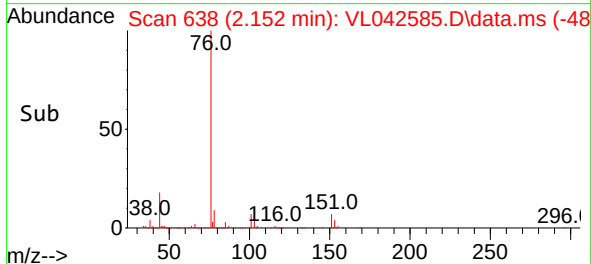
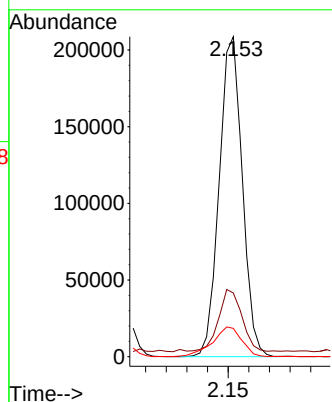
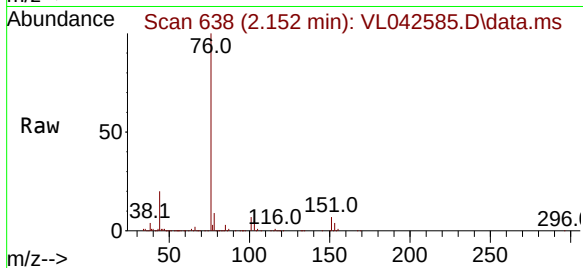




#27
Carbon Disulfide
Concen: 13.571 ppbv
RT: 2.152 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

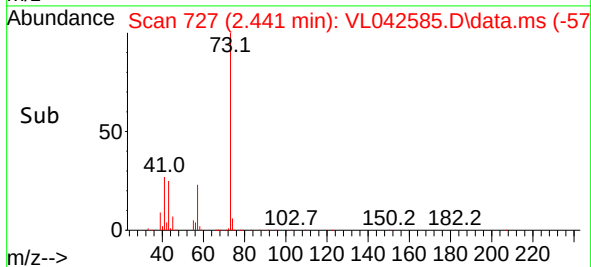
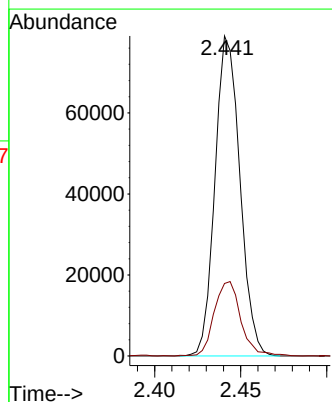
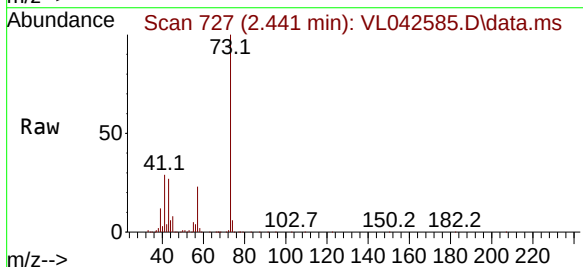
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

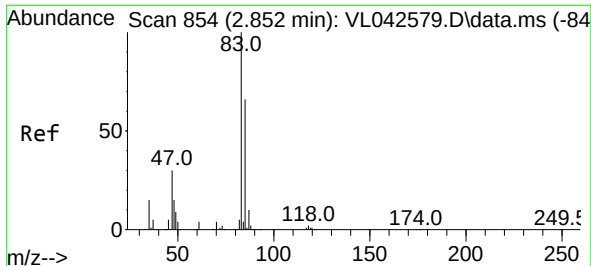
Tgt Ion: 76 Resp: 162143
Ion Ratio Lower Upper
76 100
44 23.4 21.3 31.9
78 11.9 9.4 14.0



#28
Methyl tert-Butyl Ether
Concen: 12.608 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 73 Resp: 79625
Ion Ratio Lower Upper
73 100
57 24.8 19.9 29.9





#29

Chloroform

Concen: 13.328 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

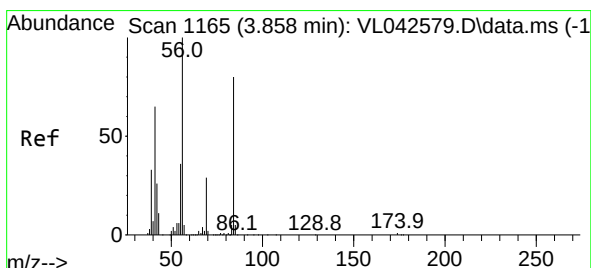
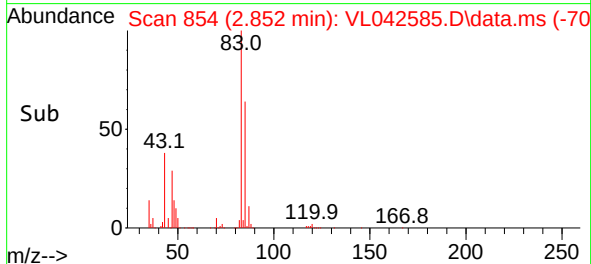
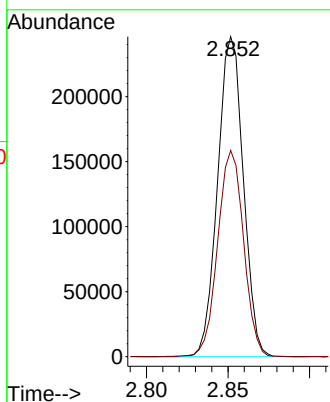
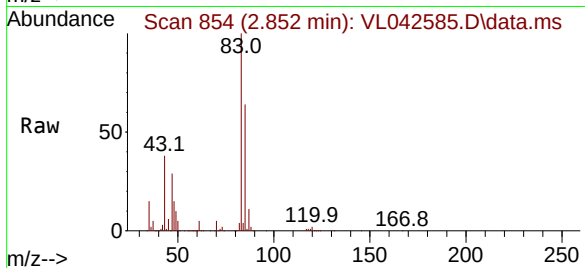
VSTDIC015

Tgt Ion: 83 Resp: 269752

Ion Ratio Lower Upper

83 100

85 64.3 52.8 79.2



#30

Cyclohexane

Concen: 13.196 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. 0.003 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

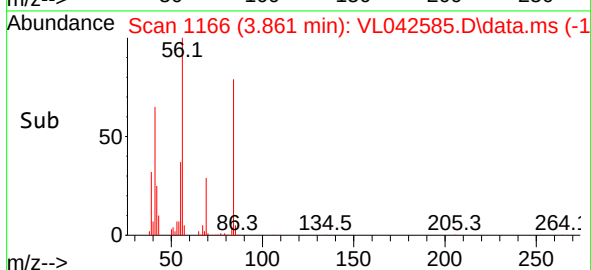
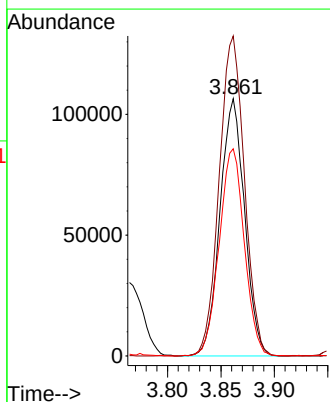
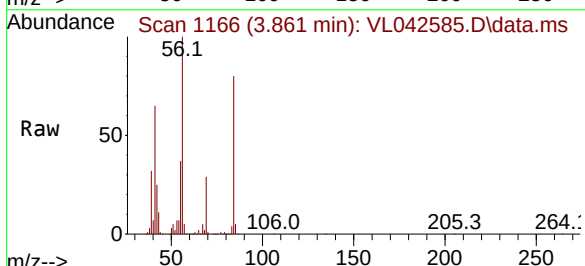
Tgt Ion: 84 Resp: 170261

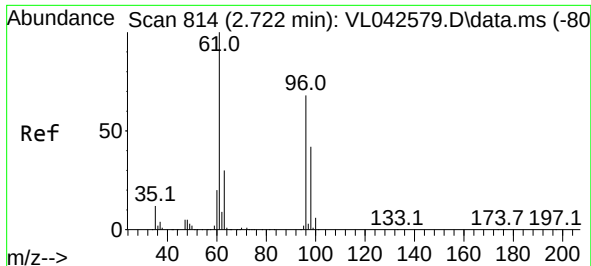
Ion Ratio Lower Upper

84 100

56 127.6 103.7 155.5

41 82.4 65.1 97.7

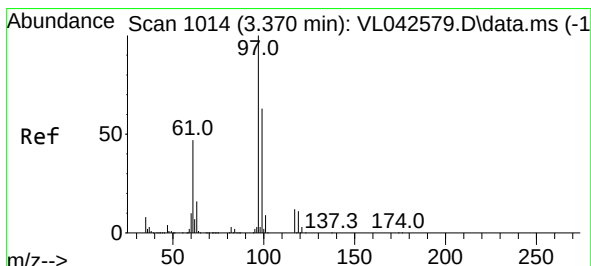
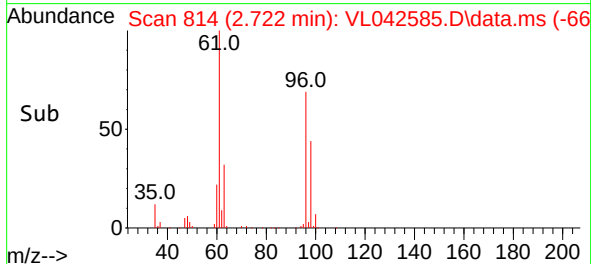
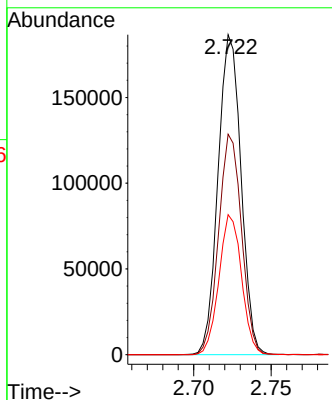
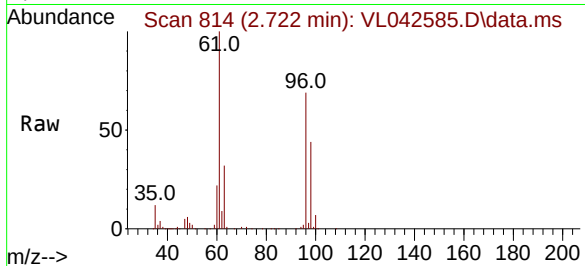




#31
 cis-1,2-Dichloroethene
 Concen: 13.526 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

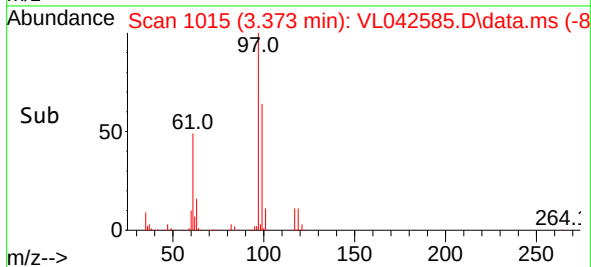
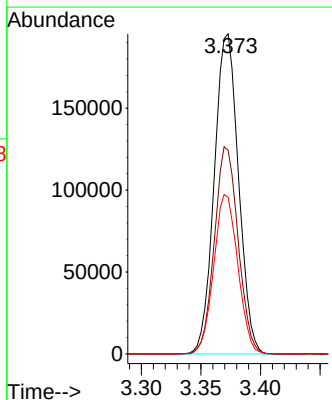
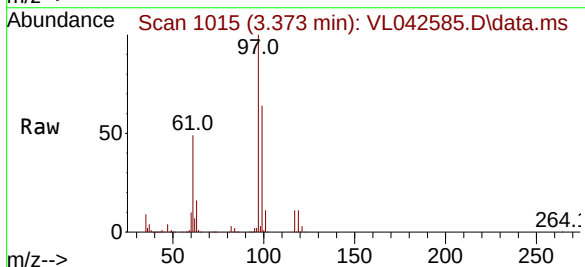
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

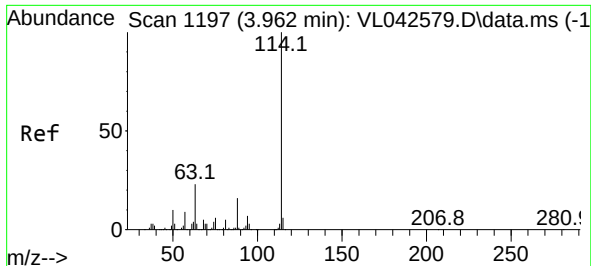
Tgt Ion: 61 Resp: 192562
 Ion Ratio Lower Upper
 61 100
 96 68.9 54.5 81.7
 98 43.8 33.4 50.2



#32
 1,1,1-Trichloroethane
 Concen: 13.591 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.003 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

Tgt Ion: 97 Resp: 276026
 Ion Ratio Lower Upper
 97 100
 99 63.4 51.0 76.6
 61 49.6 39.4 59.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

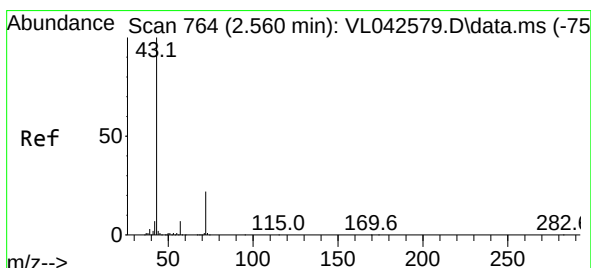
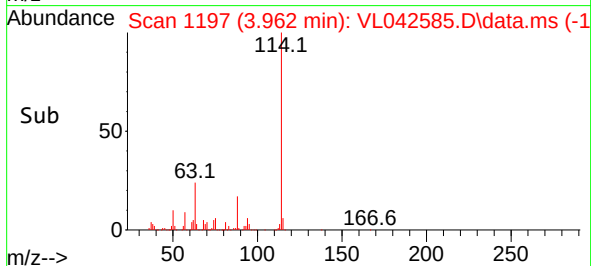
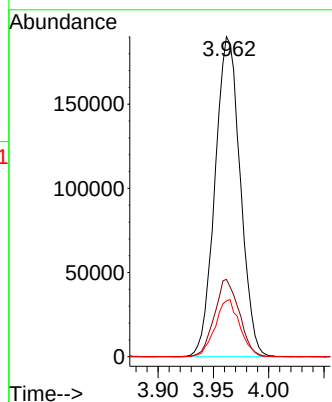
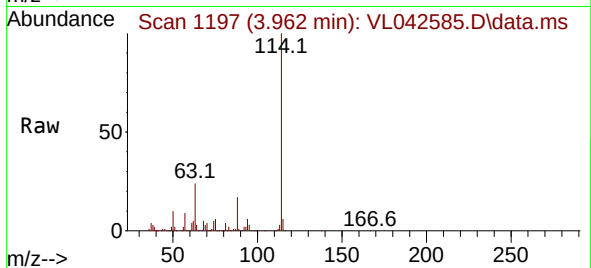
Tgt Ion:114 Resp: 301797

Ion Ratio Lower Upper

114 100

63 23.7 19.0 28.6

88 17.4 13.6 20.4



#34

2-Butanone

Concen: 13.689 ppbv

RT: 2.560 min Scan# 764

Delta R.T. -0.000 min

Lab File: VL042585.D

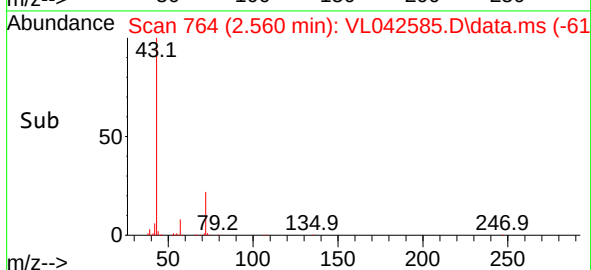
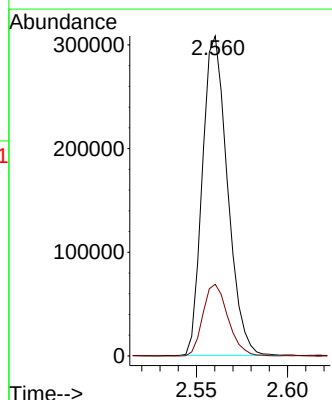
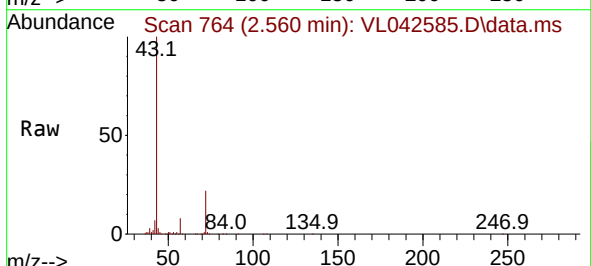
Acq: 29 May 2025 14:24

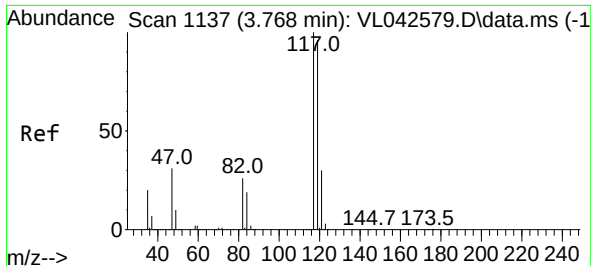
Tgt Ion: 43 Resp: 294628

Ion Ratio Lower Upper

43 100

72 22.5 17.7 26.5

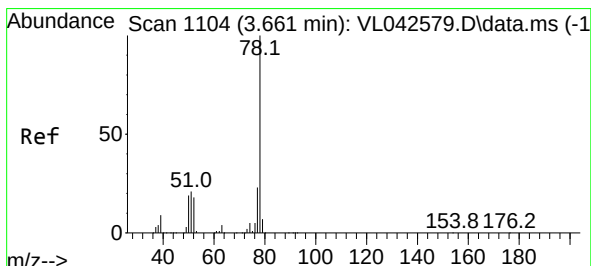
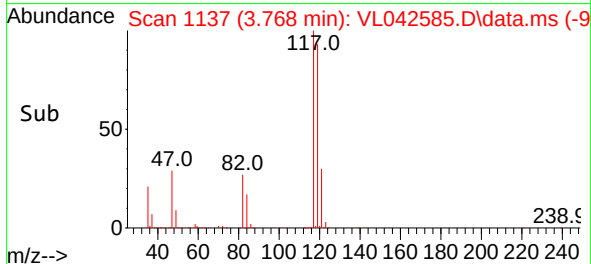
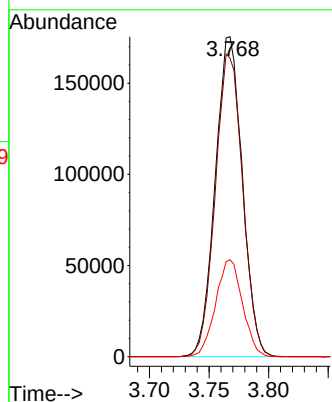
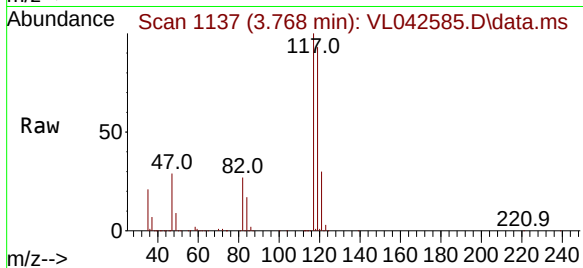




#35
Carbon Tetrachloride
Concen: 13.903 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

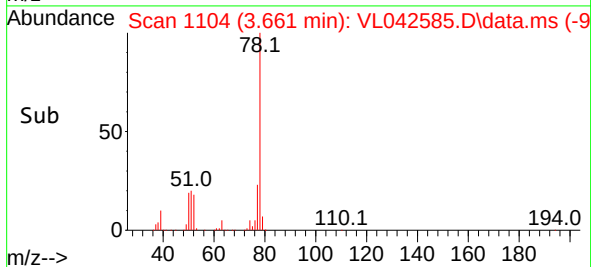
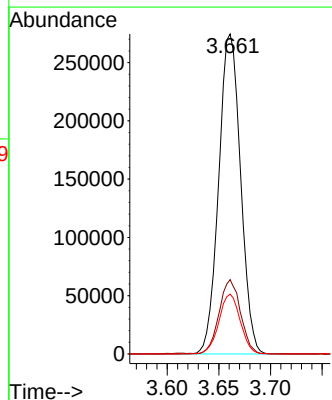
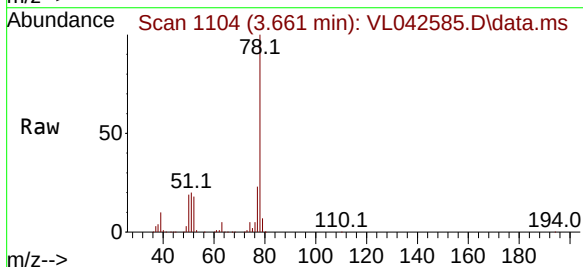
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

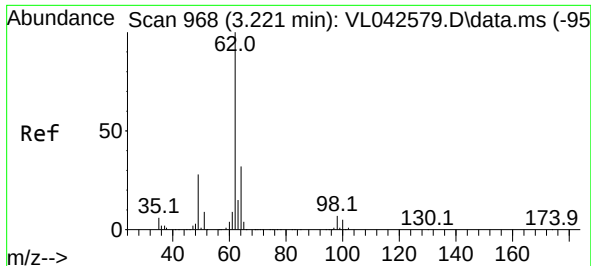
Tgt Ion:117 Resp: 277042
Ion Ratio Lower Upper
117 100
119 93.2 76.8 115.2
121 30.3 24.3 36.5



#36
Benzene
Concen: 13.615 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 78 Resp: 404641
Ion Ratio Lower Upper
78 100
77 23.3 18.2 27.2
50 18.7 15.2 22.8





#37

1,2-Dichloroethane

Concen: 14.088 ppbv

RT: 3.221 min Scan# 9

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

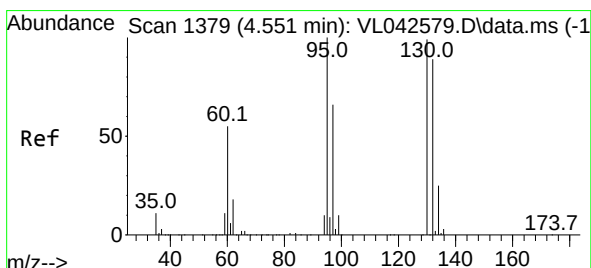
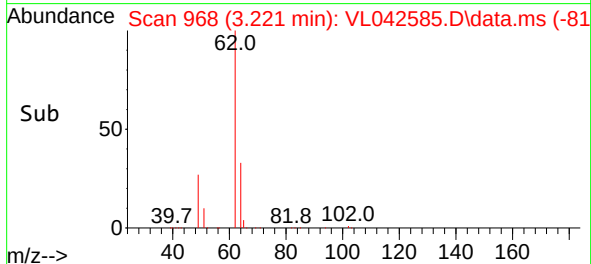
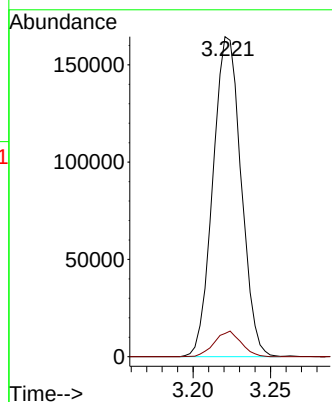
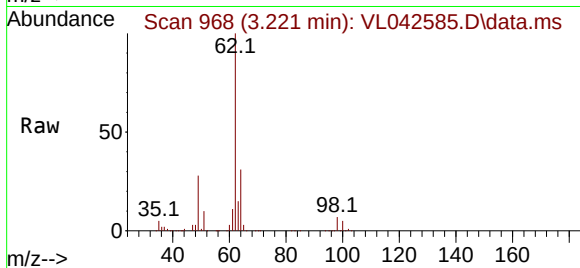
VSTDIC015

Tgt Ion: 62 Resp: 208081

Ion Ratio Lower Upper

62 100

98 7.6 6.1 9.1



#38

Trichloroethene

Concen: 13.263 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Tgt Ion:130 Resp: 168824

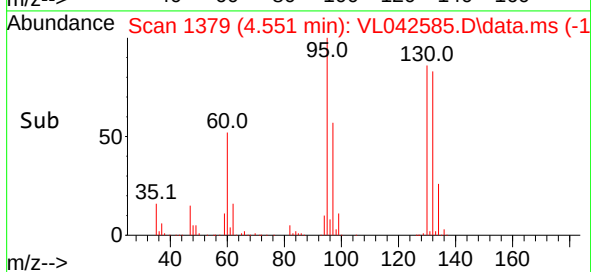
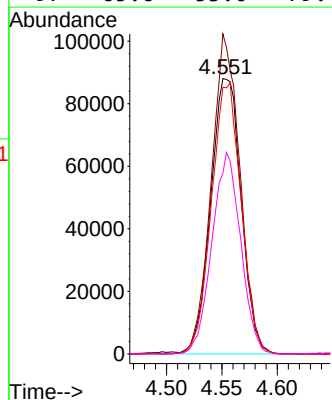
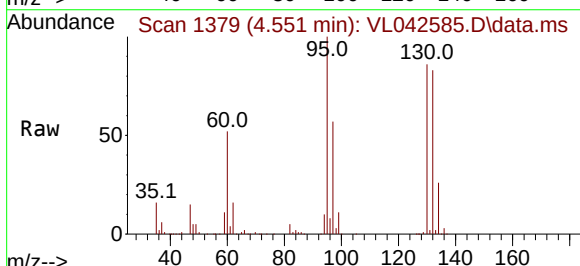
Ion Ratio Lower Upper

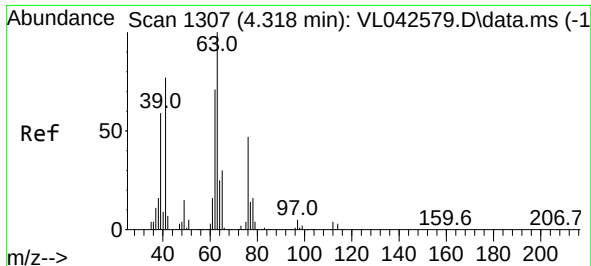
130 100

95 116.2 80.6 121.0

132 96.9 71.8 107.6

97 65.6 53.0 79.4





#39

1,2-Dichloropropane

Concen: 13.606 ppbv

RT: 4.318 min Scan# 1

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

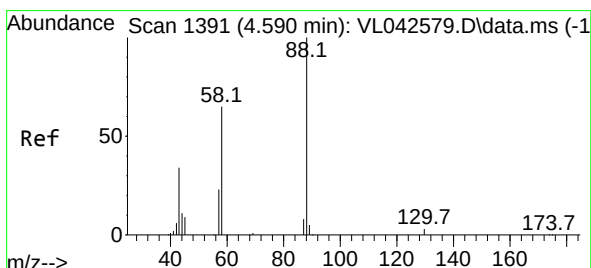
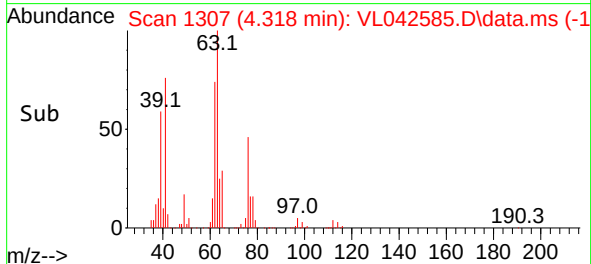
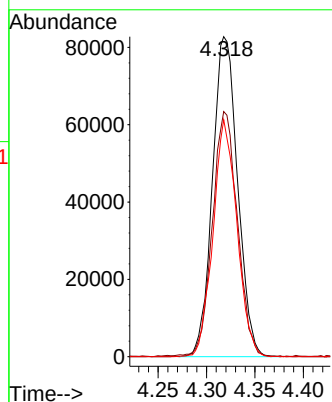
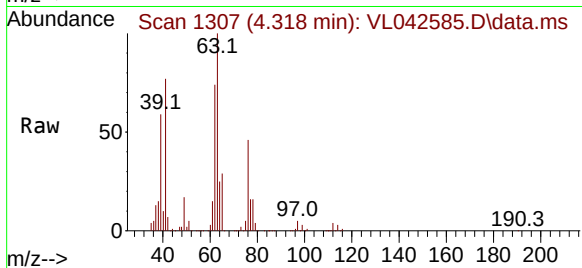
Tgt Ion: 63 Resp: 149476

Ion Ratio Lower Upper

63 100

41 76.3 61.8 92.6

62 74.0 56.6 85.0



#40

1,4-Dioxane

Concen: 14.035 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Tgt Ion: 88 Resp: 65543

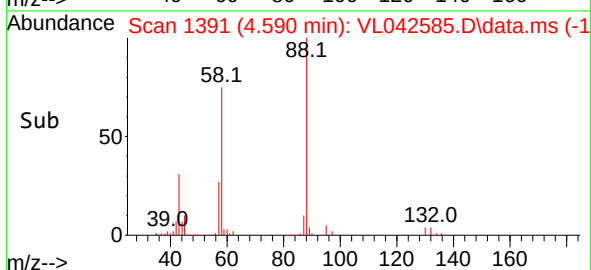
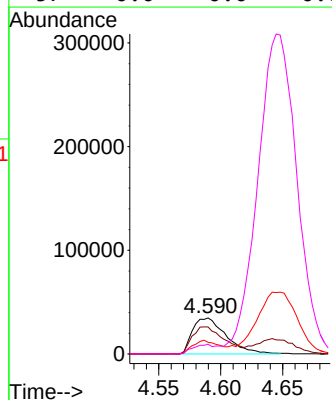
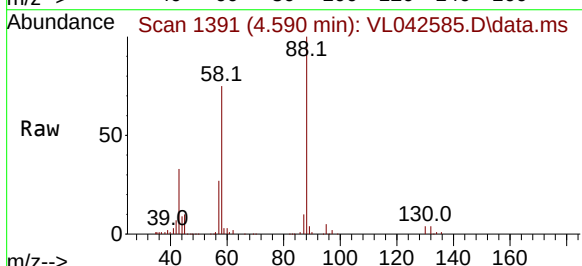
Ion Ratio Lower Upper

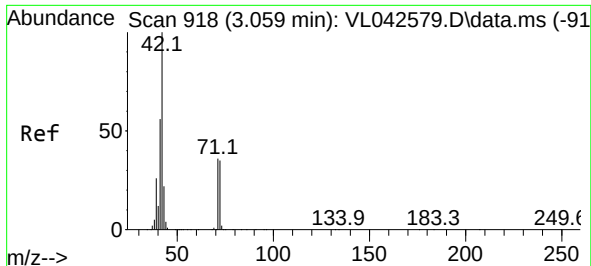
88 100

58 70.8 55.8 83.8

43 29.8 24.8 37.2

57 0.0 0.0 0.0

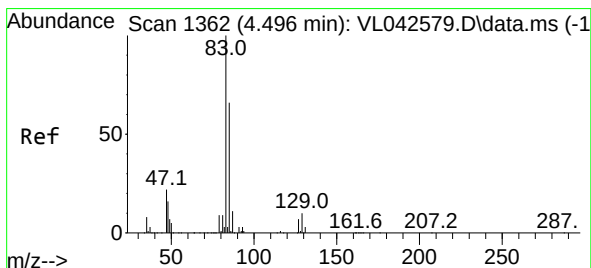
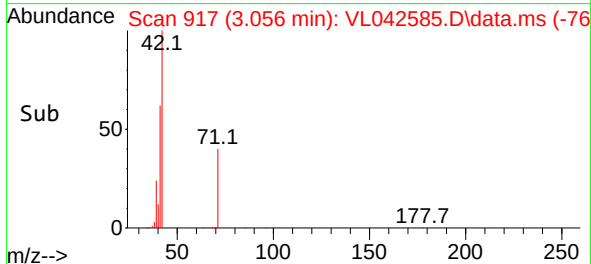
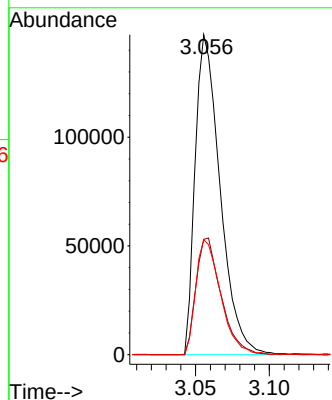
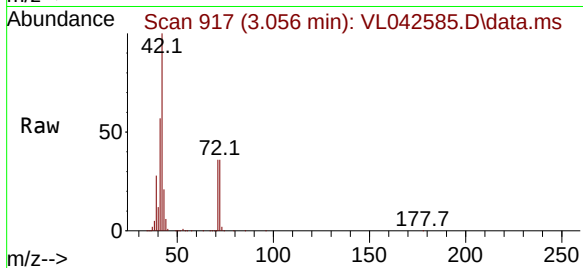




#41
Tetrahydrofuran
Concen: 13.734 ppbv
RT: 3.056 min Scan# 918
Delta R.T. -0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

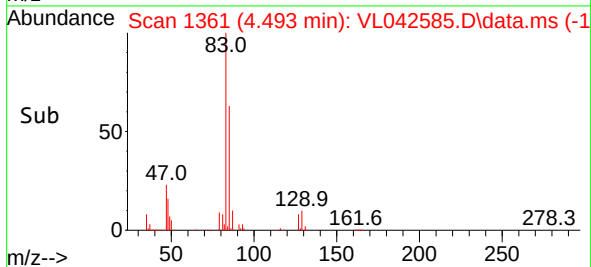
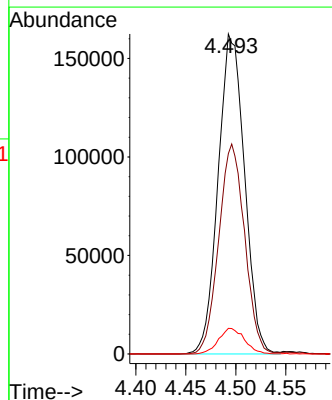
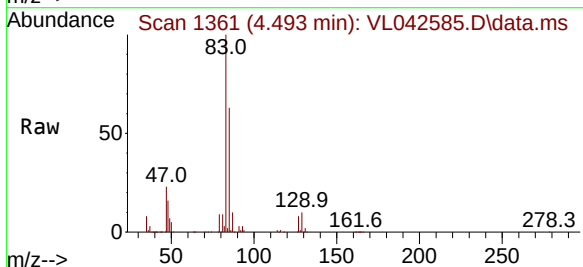
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

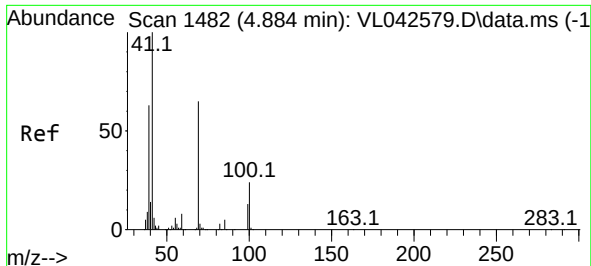
Tgt Ion: 42 Resp: 173023
Ion Ratio Lower Upper
42 100
72 36.7 28.9 43.3
71 35.8 28.5 42.7



#42
Bromodichloromethane
Concen: 14.245 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. -0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 83 Resp: 298835
Ion Ratio Lower Upper
83 100
85 62.6 52.7 79.1
127 8.0 5.8 8.6





#43

Methyl Methacrylate

Concen: 14.033 ppbv

RT: 4.887 min Scan# 1482

Delta R.T. 0.003 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

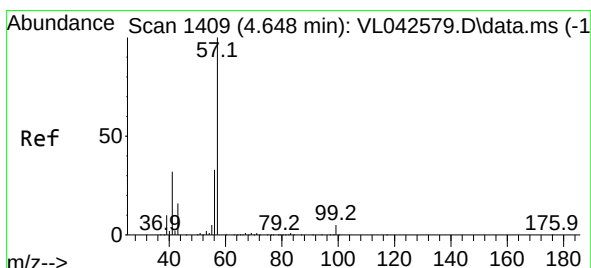
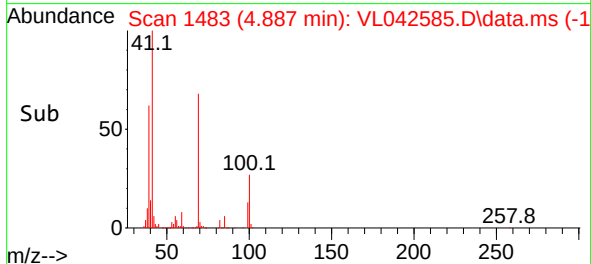
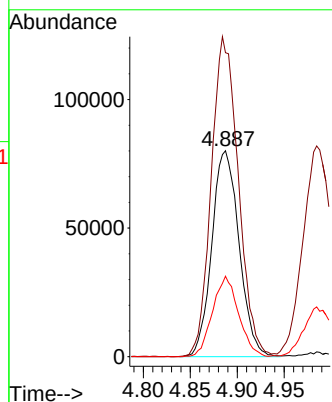
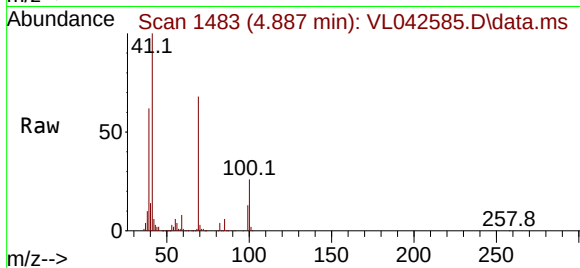
Tgt Ion: 69 Resp: 161641

Ion Ratio Lower Upper

69 100

41 154.3 124.6 187.0

100 37.3 29.9 44.9



#44

2,2,4-Trimethylpentane

Concen: 13.319 ppbv

RT: 4.645 min Scan# 1408

Delta R.T. -0.003 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

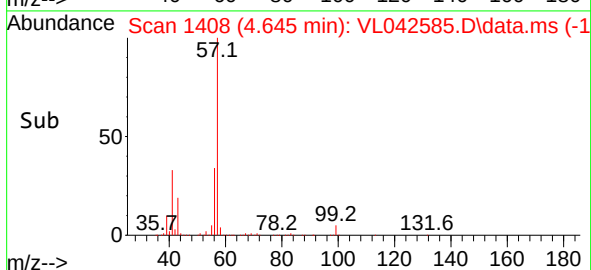
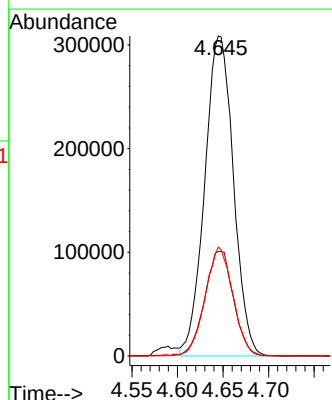
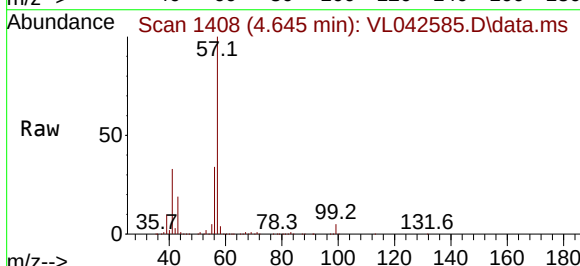
Tgt Ion: 57 Resp: 676574

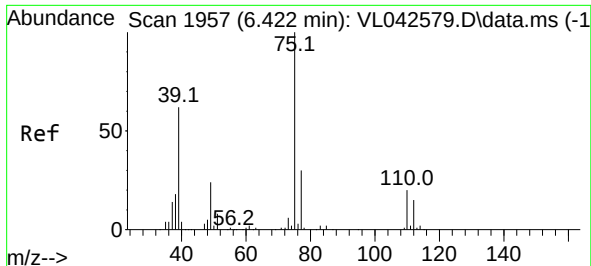
Ion Ratio Lower Upper

57 100

41 33.1 26.1 39.1

56 32.7 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 14.338 ppbv

RT: 6.422 min Scan# 1957

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_1

ClientSampleId :

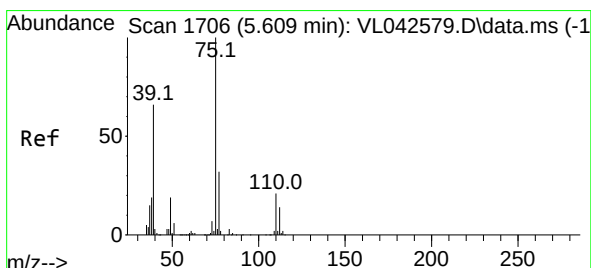
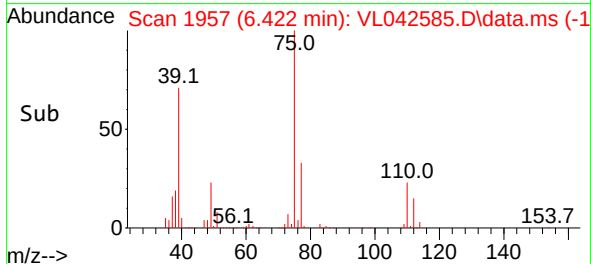
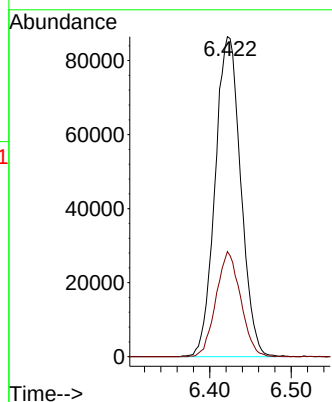
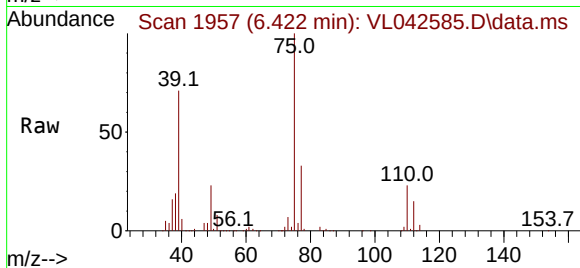
VSTDIC015

Tgt Ion: 75 Resp: 189257

Ion Ratio Lower Upper

75 100

77 32.8 24.2 36.2



#46

cis-1,3-Dichloropropene

Concen: 14.313 ppbv

RT: 5.606 min Scan# 1705

Delta R.T. -0.003 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

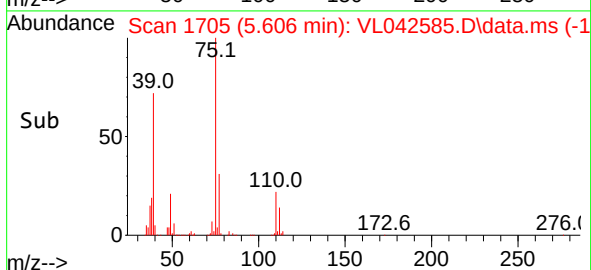
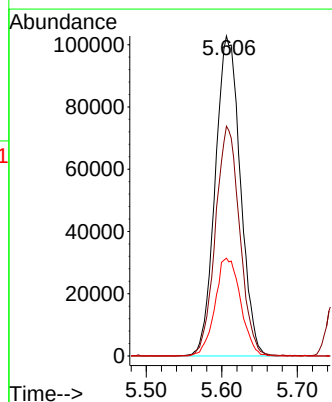
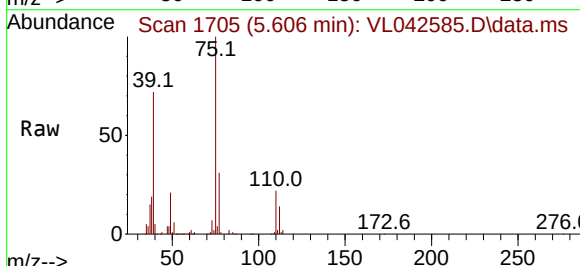
Tgt Ion: 75 Resp: 236653

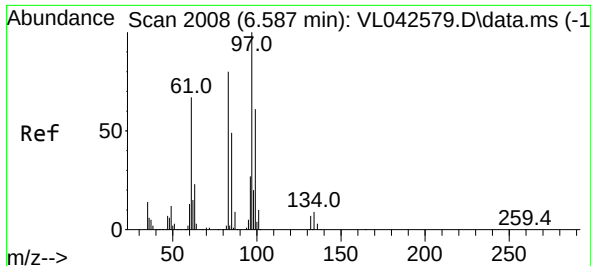
Ion Ratio Lower Upper

75 100

39 71.7 52.7 79.1

77 30.6 25.8 38.8

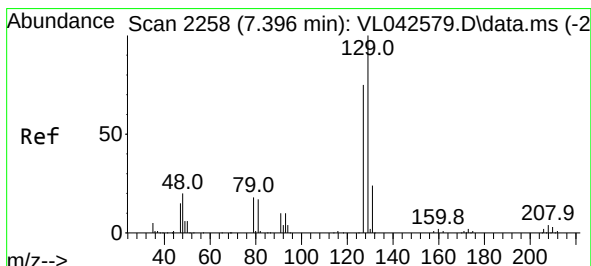
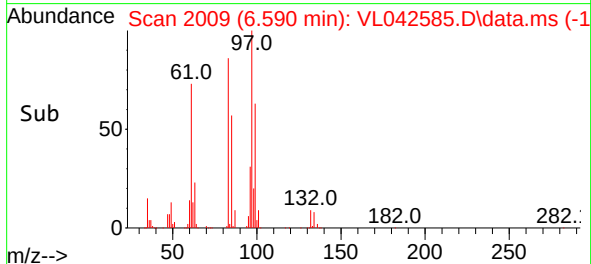
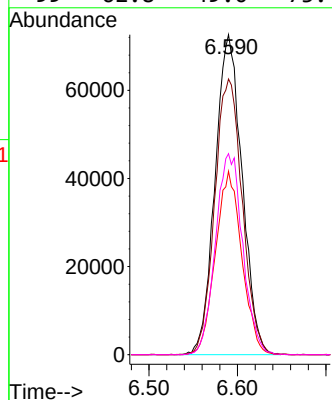
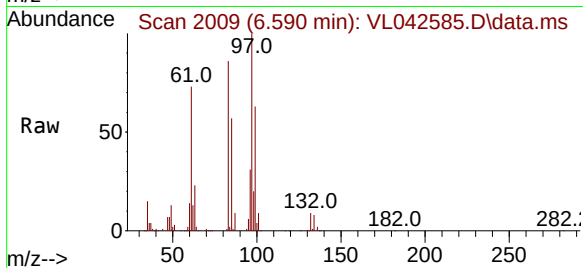




#47
 1,1,2-Trichloroethane
 Concen: 13.524 ppbv
 RT: 6.590 min Scan# 2008
 Delta R.T. 0.003 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

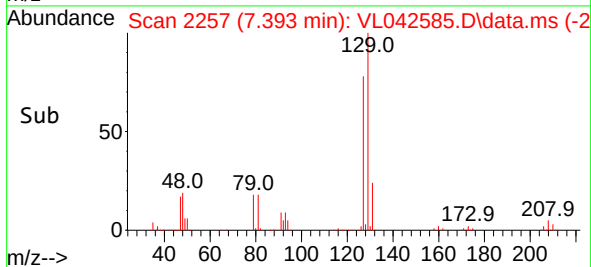
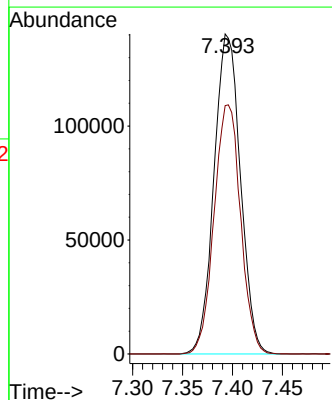
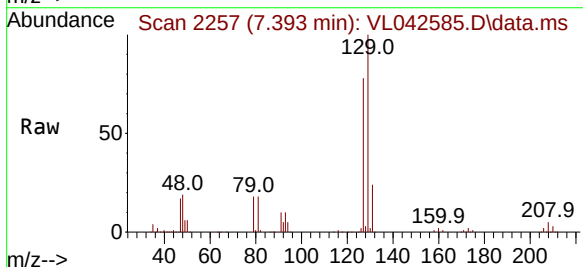
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

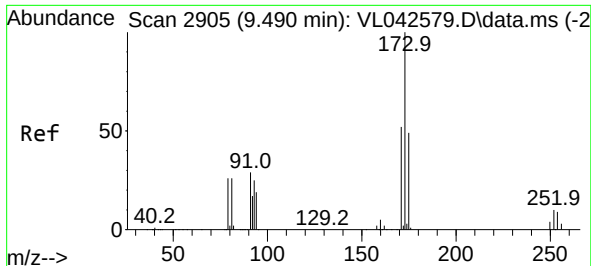
Tgt Ion: 97	Resp: 153862
Ion Ratio	Lower Upper
97 100	
83 86.0	63.9 95.9
85 57.3	39.2 58.8
99 62.8	49.0 73.4



#48
 Dibromochloromethane
 Concen: 14.187 ppbv
 RT: 7.393 min Scan# 2257
 Delta R.T. -0.003 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

Tgt Ion:129	Resp: 258374
Ion Ratio	Lower Upper
129 100	
127 78.0	39.0 116.9

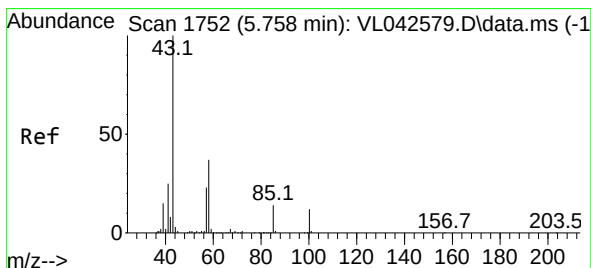
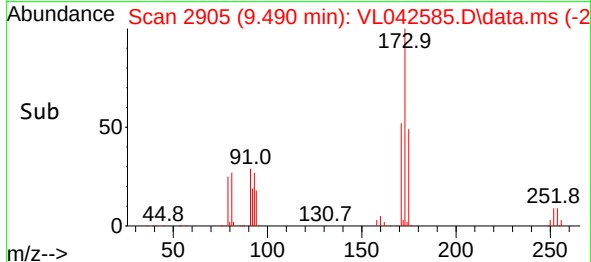
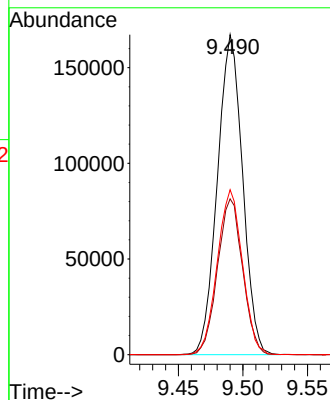
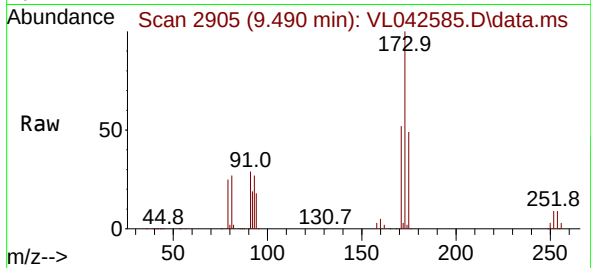




#49
Bromoform
Concen: 14.427 ppbv
RT: 9.490 min Scan# 2905
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

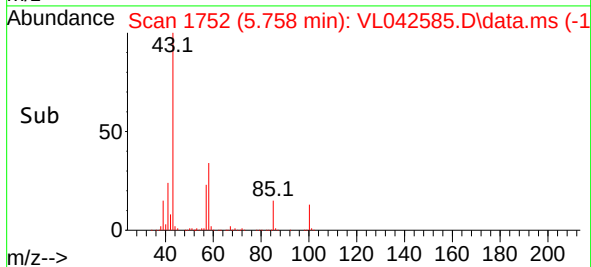
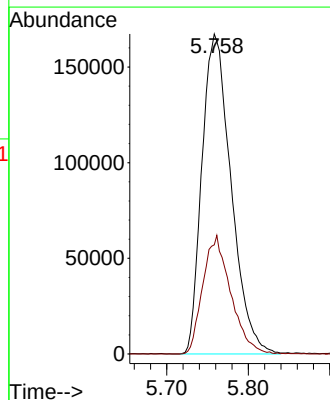
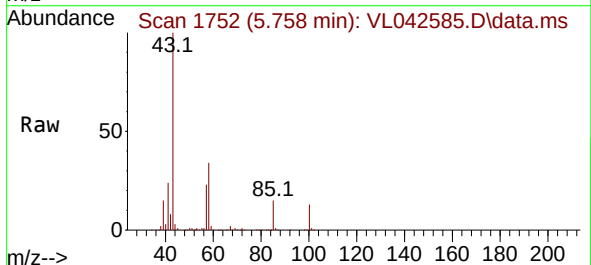
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

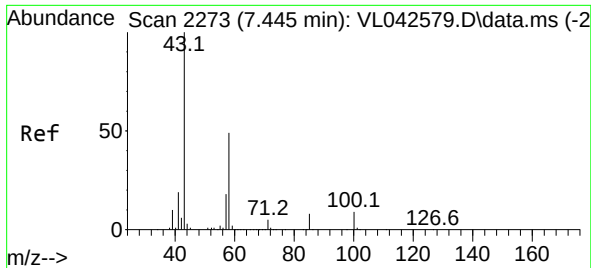
Tgt Ion:173 Resp: 226719
Ion Ratio Lower Upper
173 100
175 48.6 38.7 58.1
171 51.5 41.2 61.8



#50
4-Methyl-2-Pentanone
Concen: 13.882 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 43 Resp: 416119
Ion Ratio Lower Upper
43 100
58 35.4 28.3 42.5

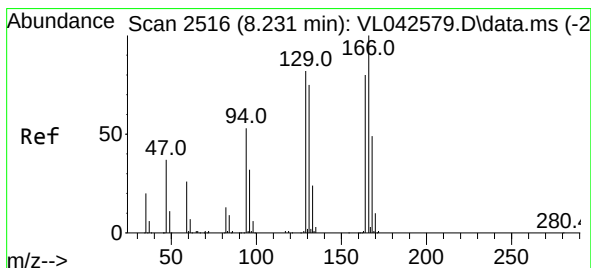
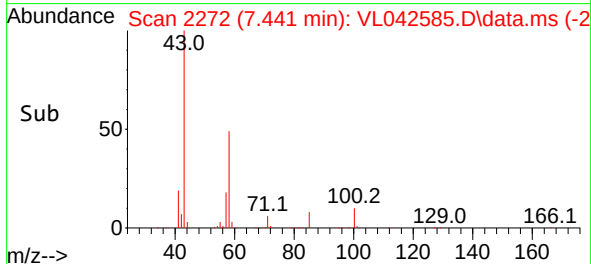
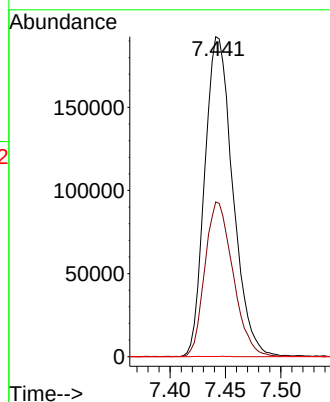
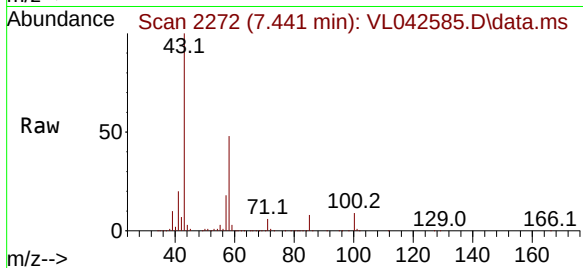




#51
2-Hexanone
Concen: 14.328 ppbv
RT: 7.441 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

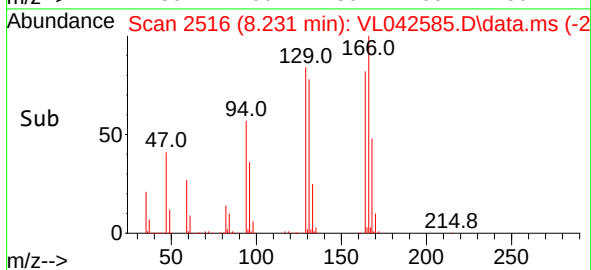
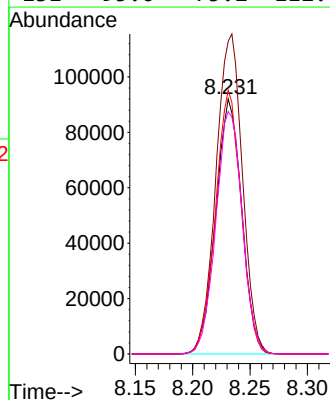
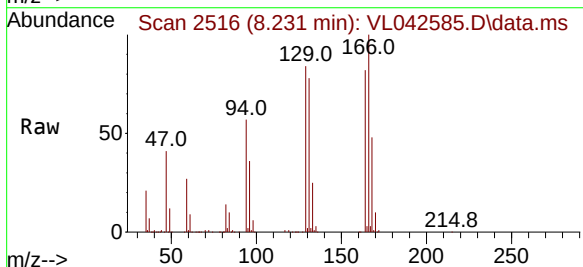
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

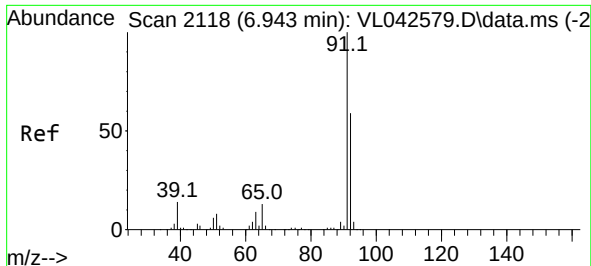
Tgt Ion: 43 Resp: 339220
Ion Ratio Lower Upper
43 100
58 48.6 39.9 59.9
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 13.098 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 164 Resp: 145485
Ion Ratio Lower Upper
164 100
166 122.6 100.0 150.0
129 103.3 82.2 123.4
131 95.0 75.2 112.8

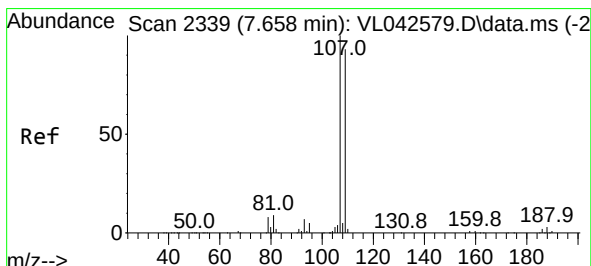
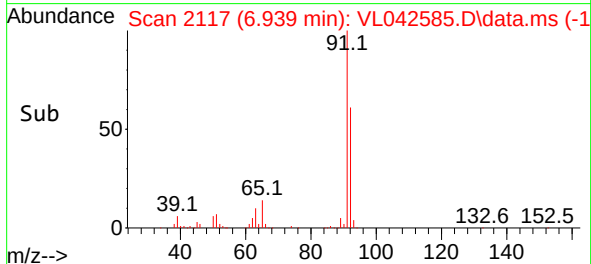
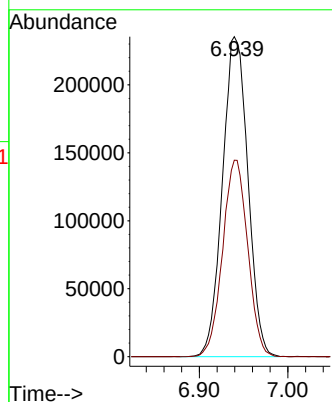
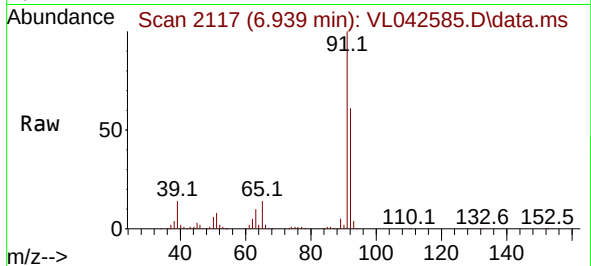




#53
Toluene
Concen: 13.702 ppbv
RT: 6.939 min Scan# 2118
Delta R.T. -0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

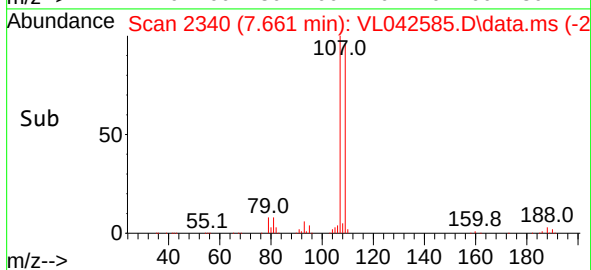
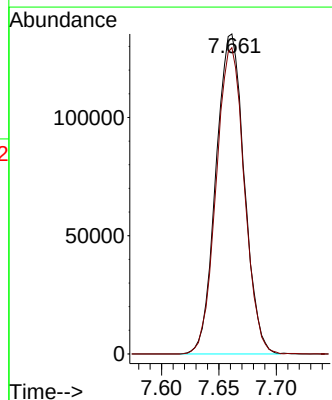
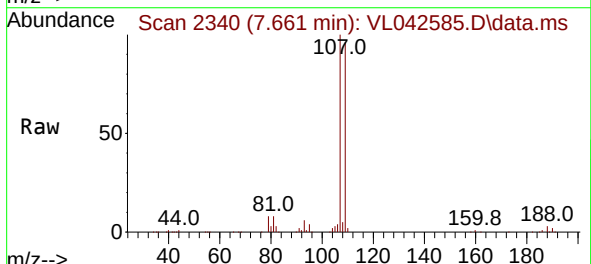
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

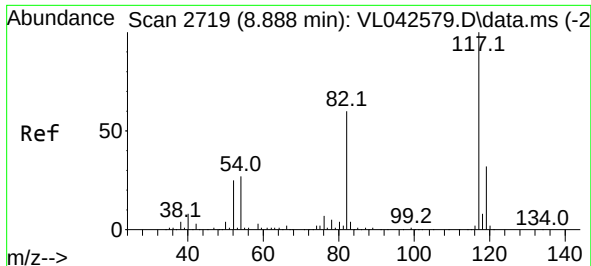
Tgt Ion: 91 Resp: 470632
Ion Ratio Lower Upper
91 100
92 60.5 48.2 72.4



#54
1,2-Dibromoethane
Concen: 13.758 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 107 Resp: 232051
Ion Ratio Lower Upper
107 100
109 95.7 74.3 111.5

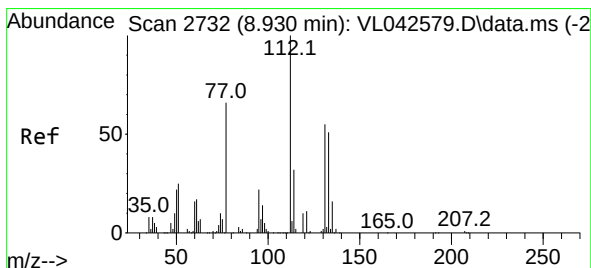
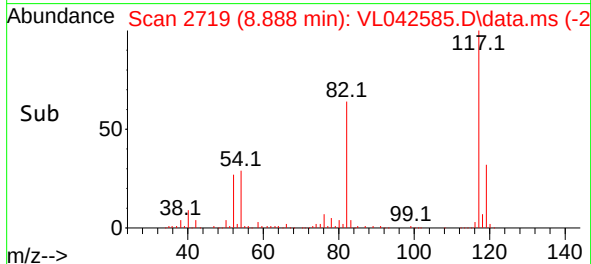
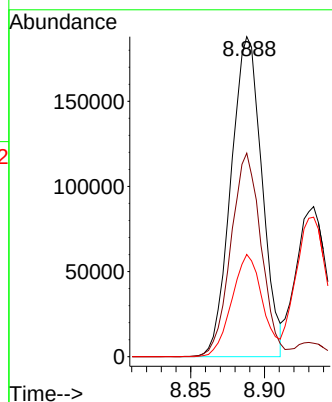
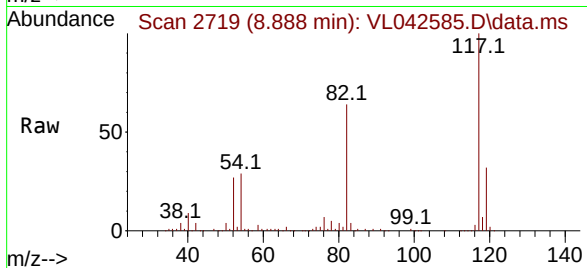




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

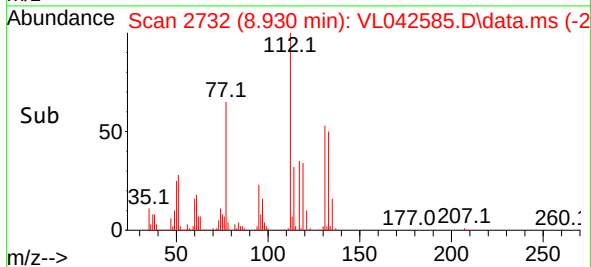
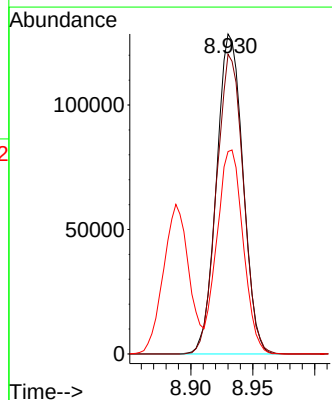
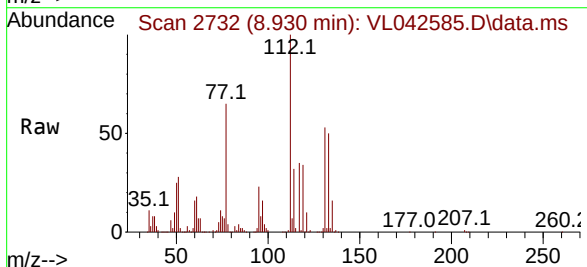
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

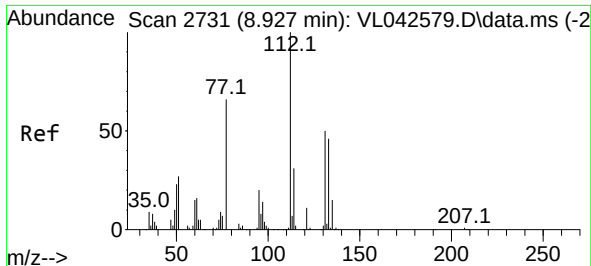
Tgt Ion:117 Resp: 274912
Ion Ratio Lower Upper
117 100
82 66.6 51.2 76.8
119 32.0 26.3 39.5



#56
1,1,1,2-Tetrachloroethane
Concen: 13.828 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion:131 Resp: 191145
Ion Ratio Lower Upper
131 100
133 94.8 75.0 112.6
119 64.0 50.8 76.2

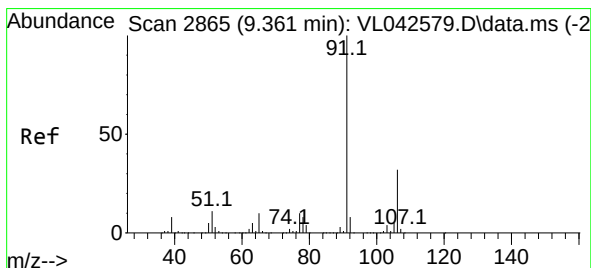
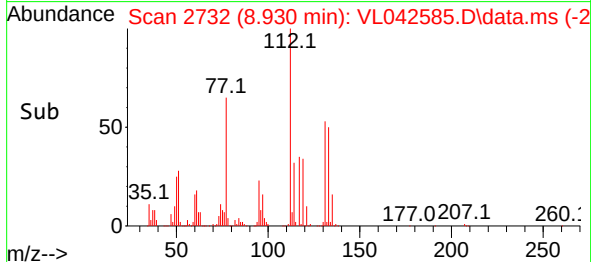
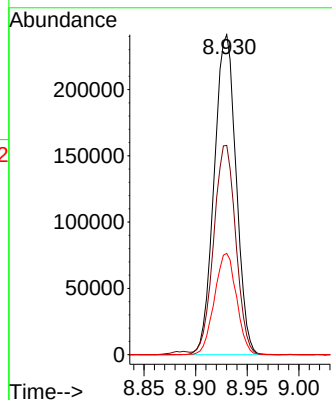
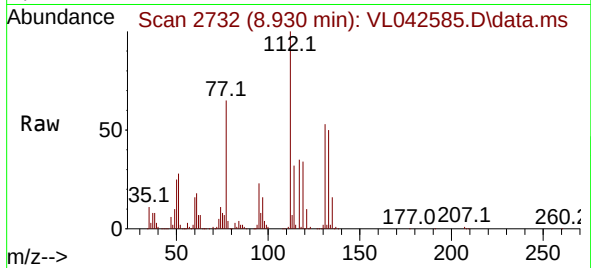




#57
Chlorobenzene
Concen: 13.361 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

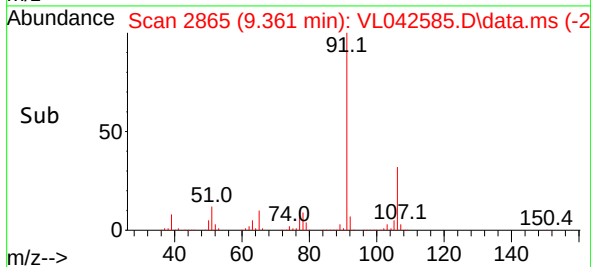
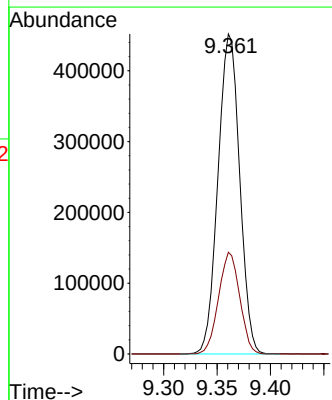
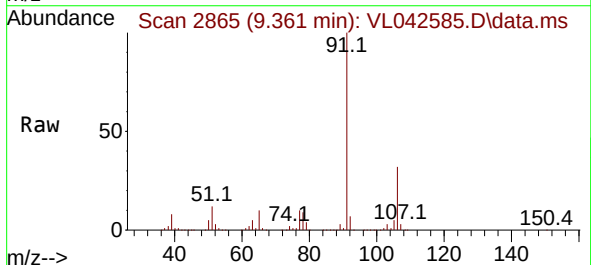
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

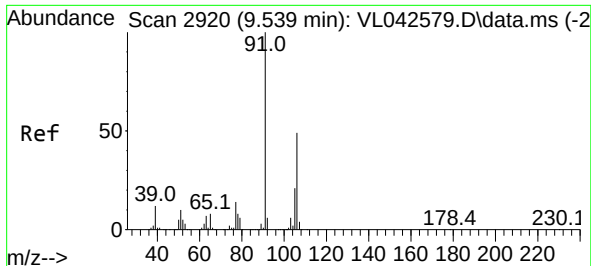
Tgt Ion:112 Resp: 356655
Ion Ratio Lower Upper
112 100
77 65.4 53.5 80.3
114 31.7 27.8 34.0



#58
Ethyl Benzene
Concen: 13.662 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 91 Resp: 637083
Ion Ratio Lower Upper
91 100
106 31.8 25.9 38.9





#59

m/p-Xylene

Concen: 14.249 ppbv

RT: 9.539 min Scan# 2920

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_1

ClientSampleId :

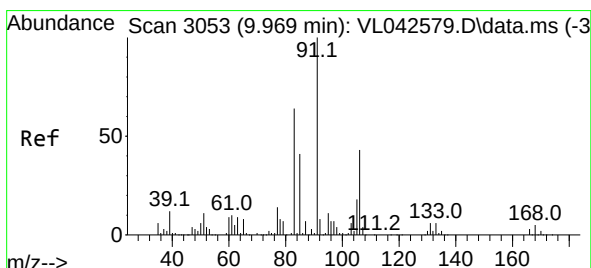
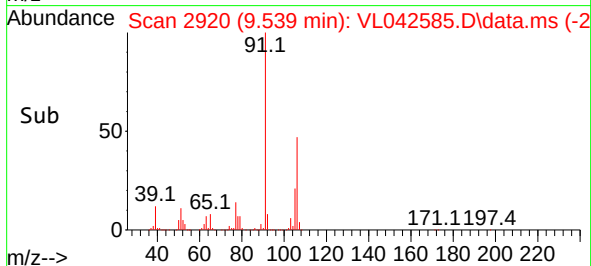
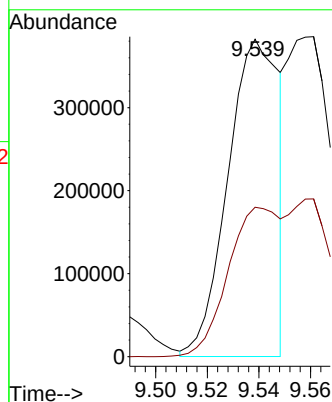
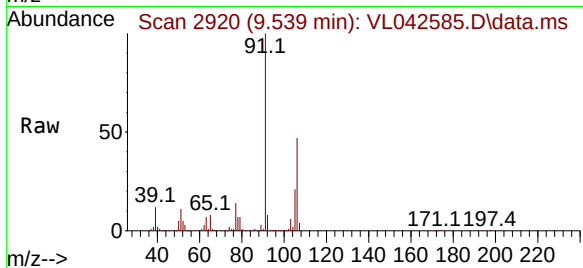
VSTDIC015

Tgt Ion: 91 Resp: 523032

Ion Ratio Lower Upper

91 100

106 0.0 38.8 58.2#



#60

o-Xylene

Concen: 13.389 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL042585.D

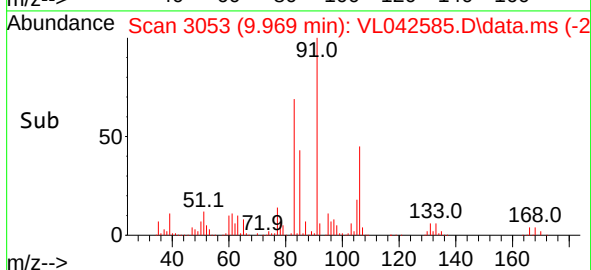
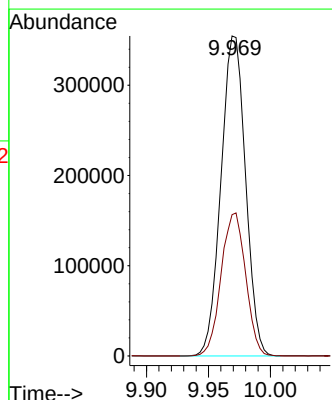
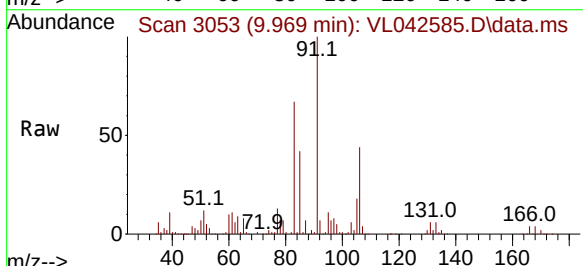
Acq: 29 May 2025 14:24

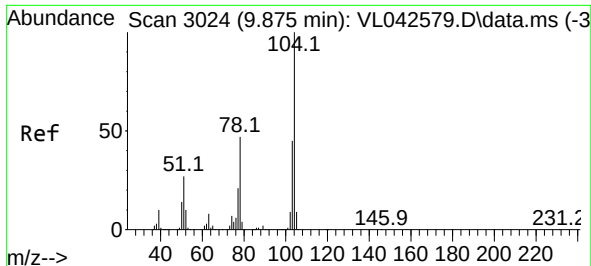
Tgt Ion: 91 Resp: 490036

Ion Ratio Lower Upper

91 100

106 44.7 22.9 68.5

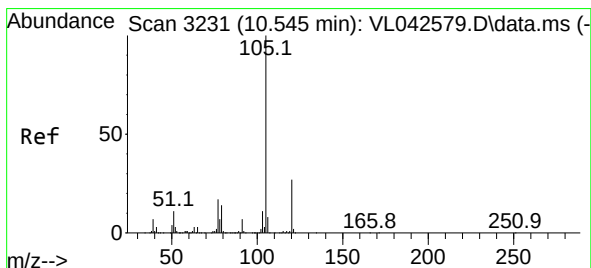
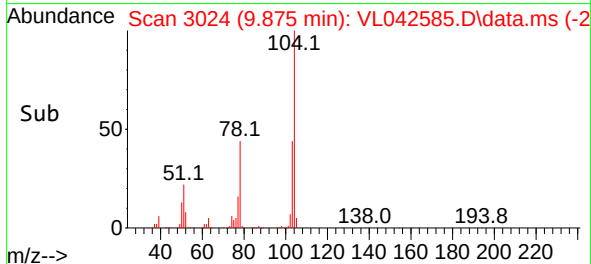
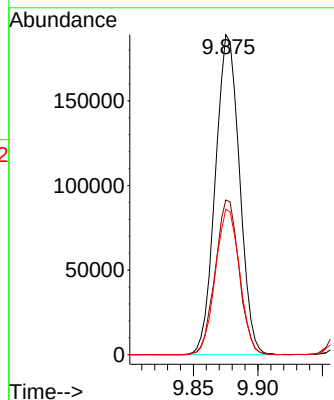
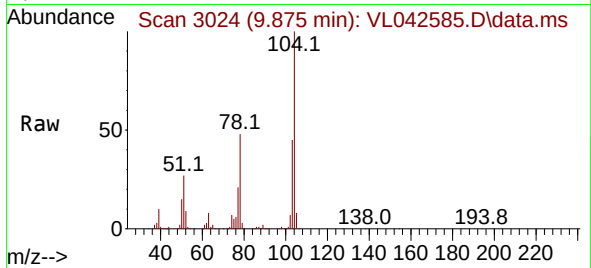




#61
Styrene
Concen: 14.199 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

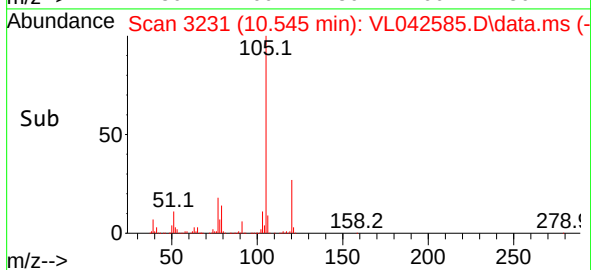
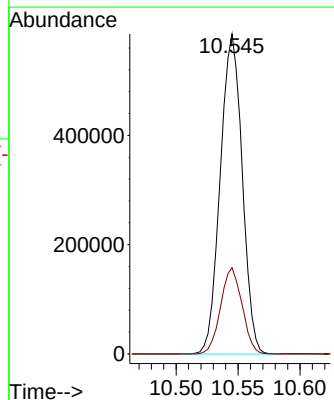
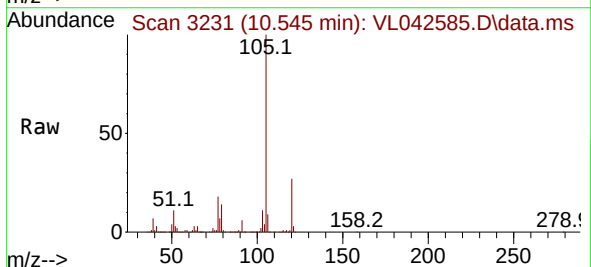
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

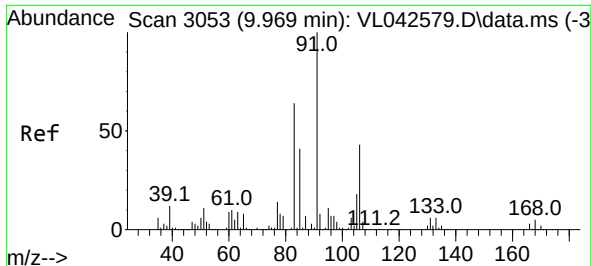
Tgt Ion:104 Resp: 245714
Ion Ratio Lower Upper
104 100
78 47.9 38.2 57.4
103 45.8 36.7 55.1



#62
Isopropylbenzene
Concen: 13.356 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion:105 Resp: 722166
Ion Ratio Lower Upper
105 100
120 26.3 20.9 31.3

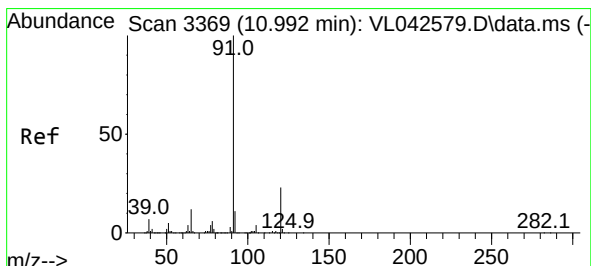
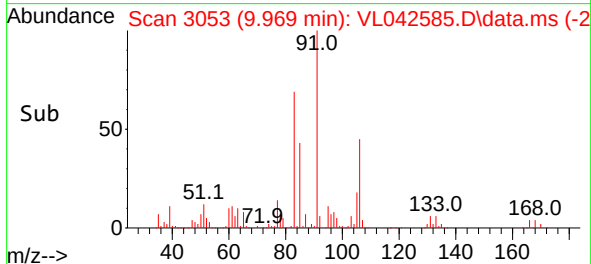
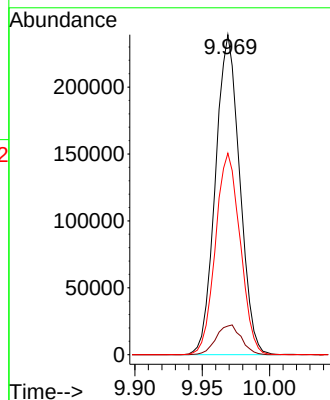
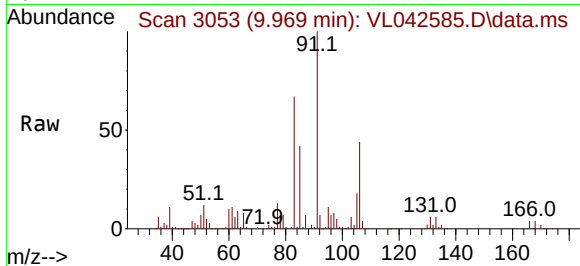




#63
 1,1,2,2-Tetrachloroethane
 Concen: 12.875 ppbv
 RT: 9.969 min Scan# 3053
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

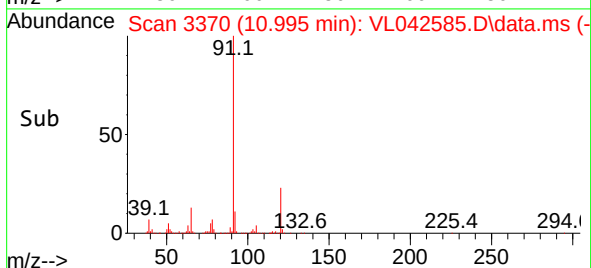
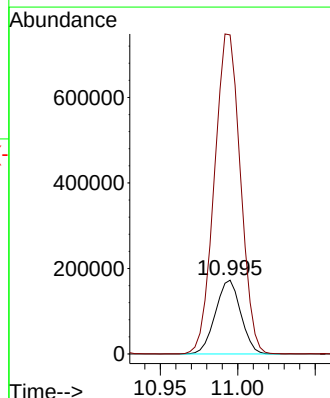
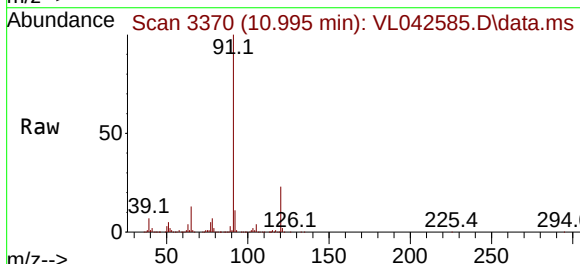
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

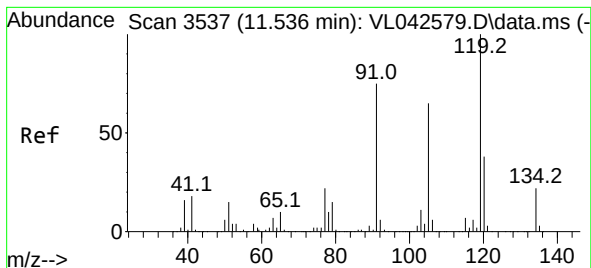
Tgt Ion: 83 Resp: 299633
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.8 14.4
 85 64.2 32.5 97.4



#64
 n-propylbenzene
 Concen: 13.519 ppbv
 RT: 10.995 min Scan# 3370
 Delta R.T. 0.003 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

Tgt Ion: 120 Resp: 195952
 Ion Ratio Lower Upper
 120 100
 91 446.5 363.0 544.6





#65

tert-Butylbenzene

Concen: 12.924 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

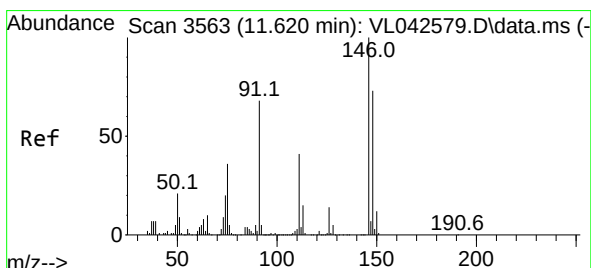
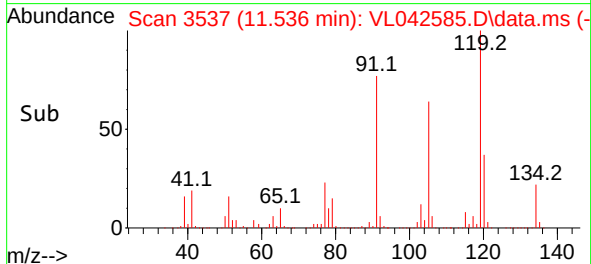
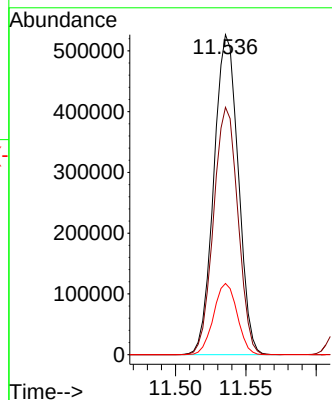
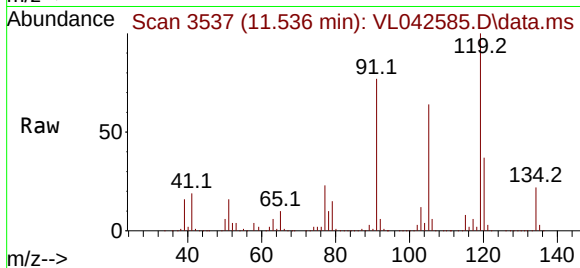
Tgt Ion:119 Resp: 634159

Ion Ratio Lower Upper

119 100

91 77.3 61.1 91.7

134 21.5 17.4 26.2



#66

Benzyl Chloride

Concen: 14.320 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

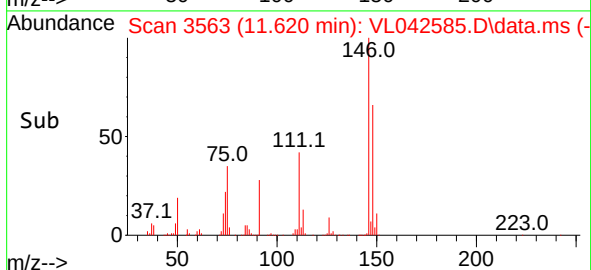
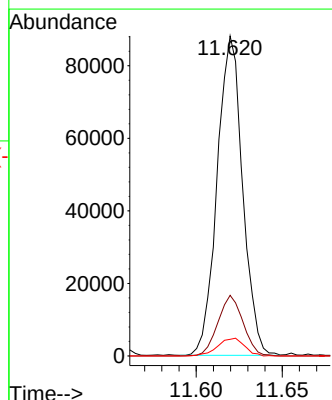
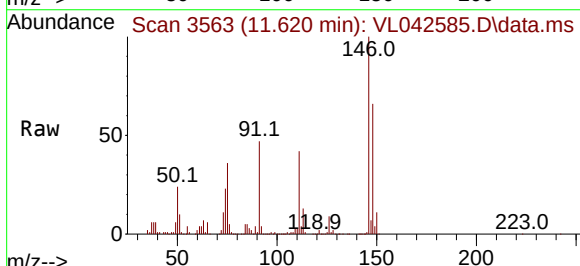
Tgt Ion: 91 Resp: 90617

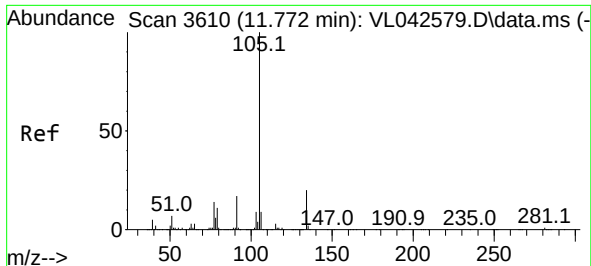
Ion Ratio Lower Upper

91 100

126 18.7 15.1 22.7

128 5.9 5.0 7.6





#67

sec-Butylbenzene

Concen: 12.939 ppbv

RT: 11.772 min Scan# 3610

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

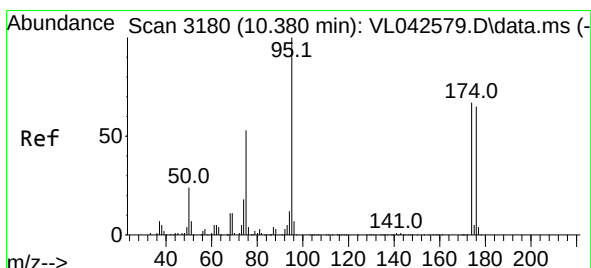
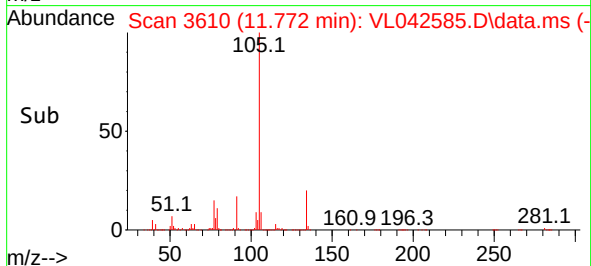
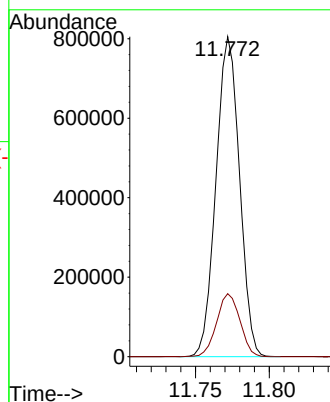
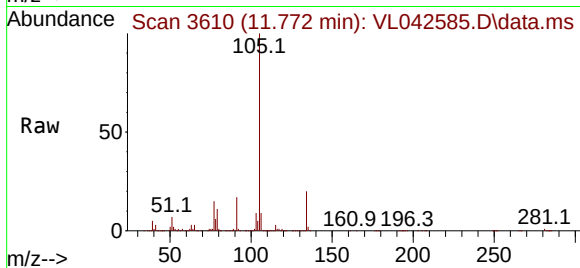
VSTDIC015

Tgt Ion:105 Resp: 892638

Ion Ratio Lower Upper

105 100

134 19.6 15.8 23.6



#68

1-Bromo-4-Fluorobenzene

Concen: 10.053 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

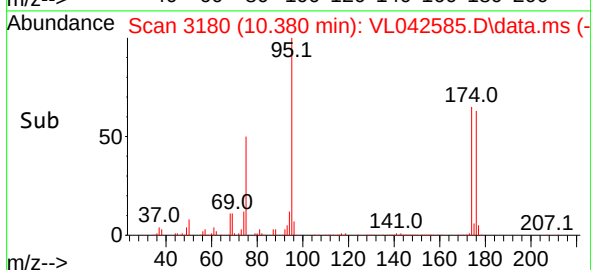
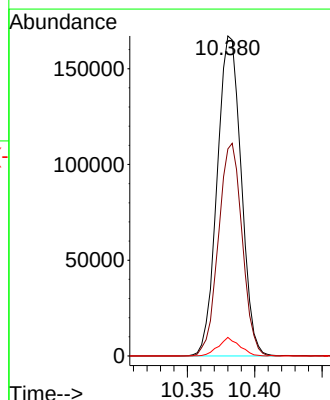
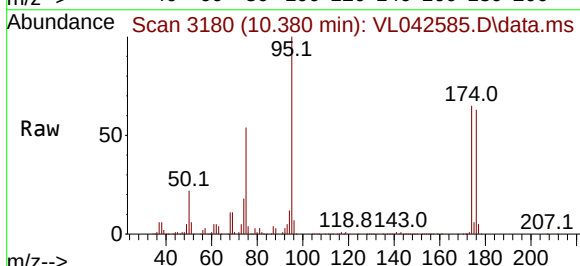
Tgt Ion: 95 Resp: 207170

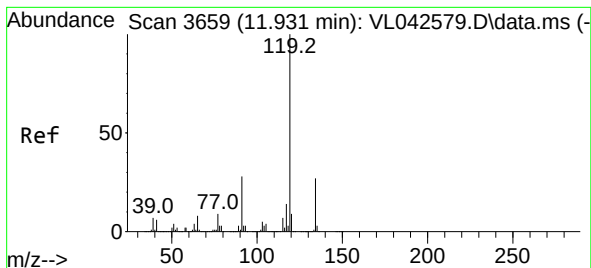
Ion Ratio Lower Upper

95 100

174 65.7 53.1 79.7

175 5.1 4.2 6.2

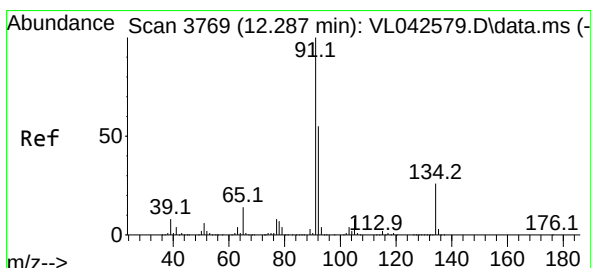
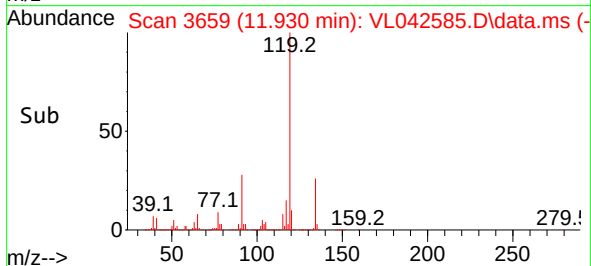
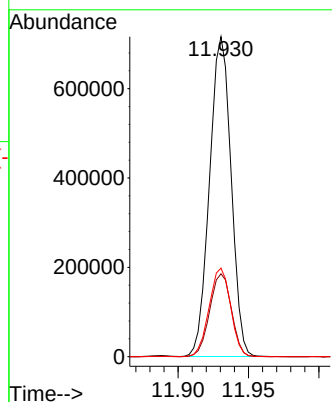
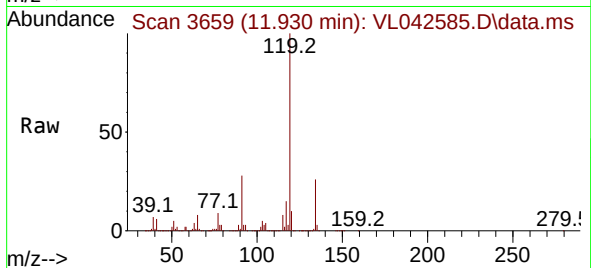




#69
 p-Isopropyltoluene
 Concen: 13.210 ppbv
 RT: 11.930 min Scan# 3659
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

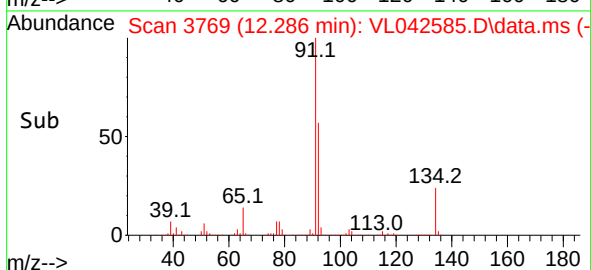
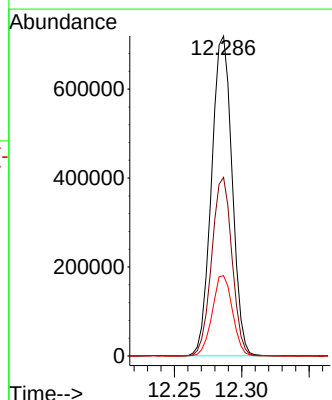
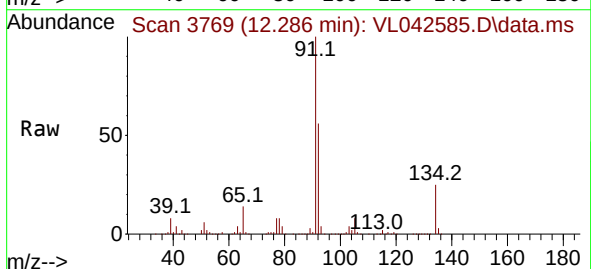
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

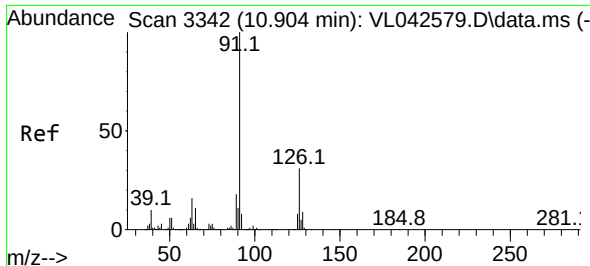
Tgt Ion:119 Resp: 763150
 Ion Ratio Lower Upper
 119 100
 134 26.2 21.1 31.7
 91 27.7 21.9 32.9



#70
 n-Butylbenzene
 Concen: 13.401 ppbv
 RT: 12.286 min Scan# 3769
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

Tgt Ion: 91 Resp: 764173
 Ion Ratio Lower Upper
 91 100
 92 55.2 44.4 66.6
 134 24.8 20.1 30.1

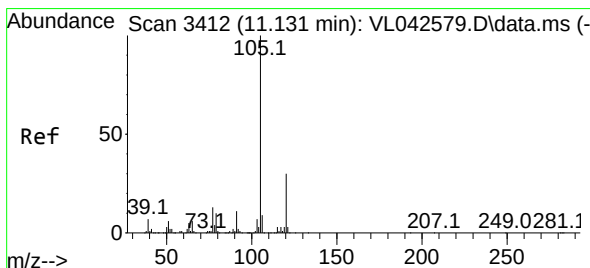
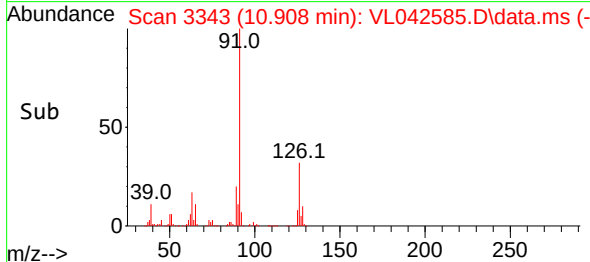
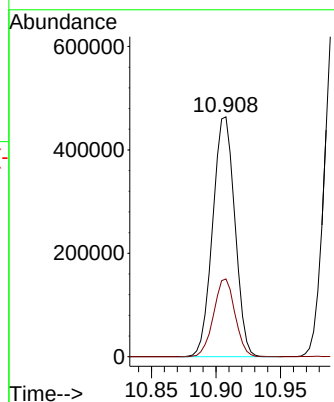
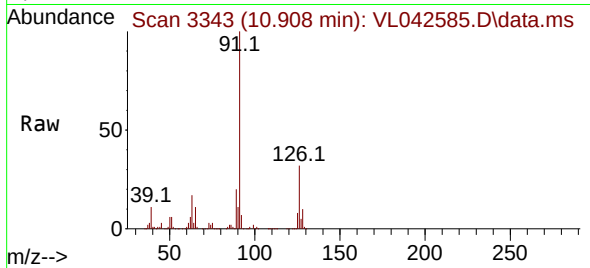




#71
2-Chlorotoluene
Concen: 13.390 ppbv
RT: 10.908 min Scan# 311
Delta R.T. 0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

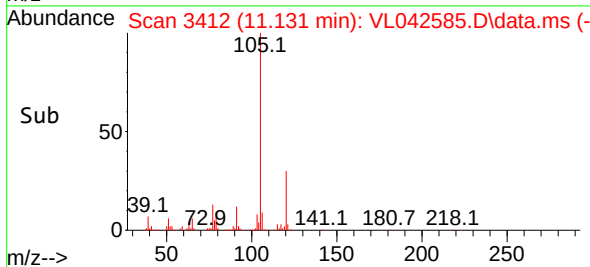
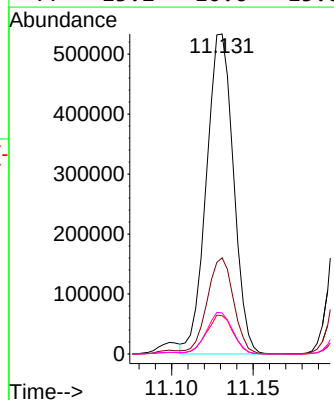
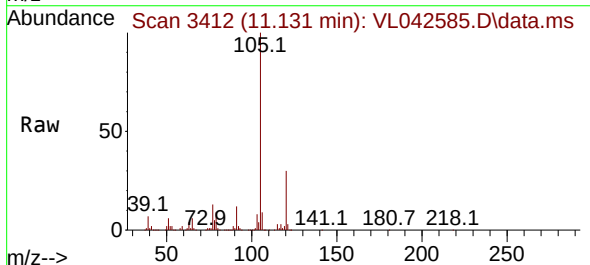
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

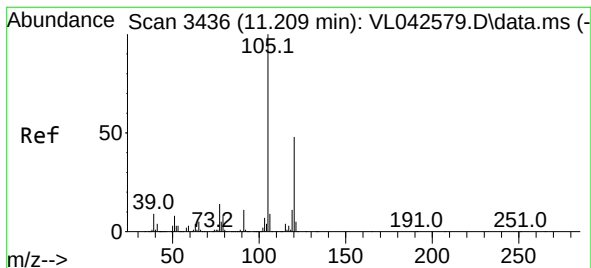
Tgt Ion: 91 Resp: 552265
Ion Ratio Lower Upper
91 100
126 31.3 12.6 50.4



#72
4-Ethyltoluene
Concen: 13.504 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion: 105 Resp: 616187
Ion Ratio Lower Upper
105 100
120 30.4 24.6 36.8
91 12.4 9.6 14.4
77 13.2 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 13.498 ppbv

RT: 11.209 min Scan# 3436

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_1

ClientSampleId :

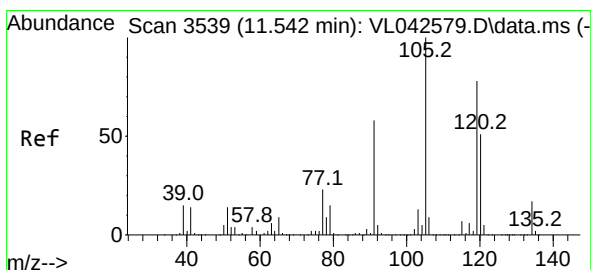
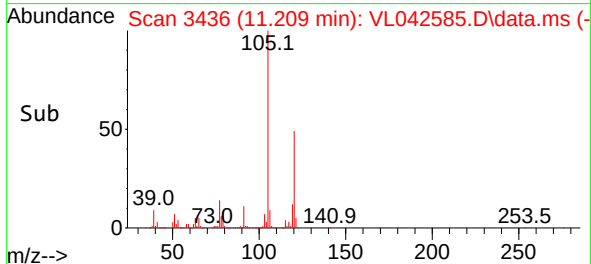
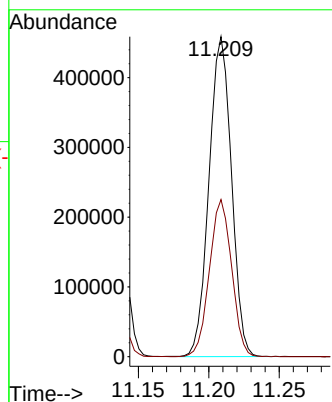
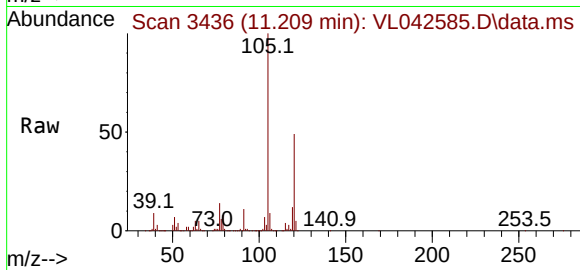
VSTDIC015

Tgt Ion:105 Resp: 509801

Ion Ratio Lower Upper

105 100

120 49.1 38.8 58.2



#74

1,2,4-Trimethylbenzene

Concen: 12.854 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Tgt Ion:105 Resp: 538704

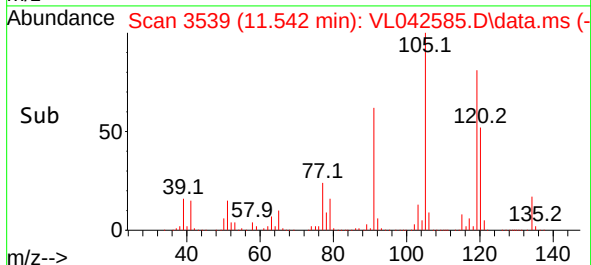
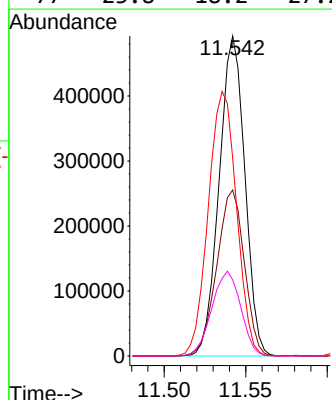
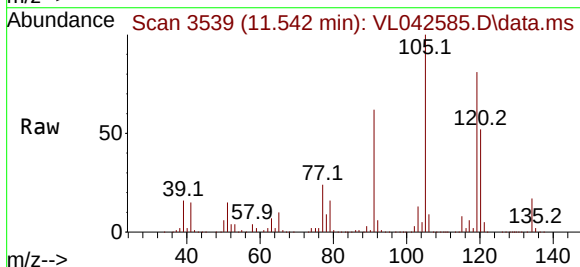
Ion Ratio Lower Upper

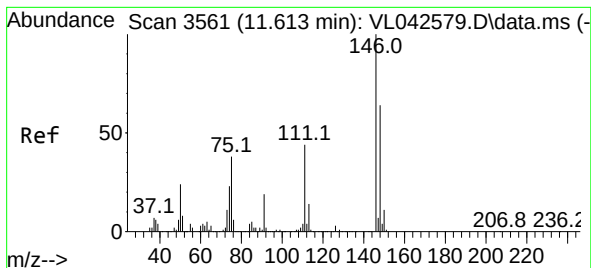
105 100

120 51.8 40.8 61.2

91 61.8 46.8 70.2

77 23.8 18.2 27.2





#75

1,3-Dichlorobenzene

Concen: 13.203 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

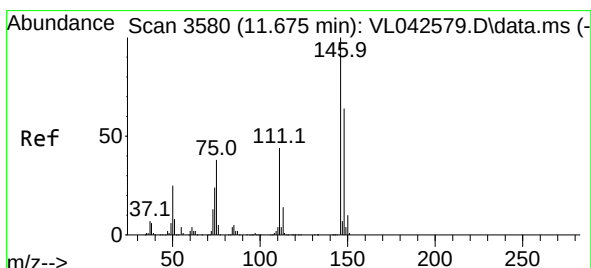
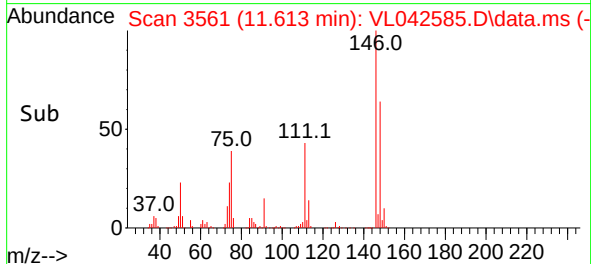
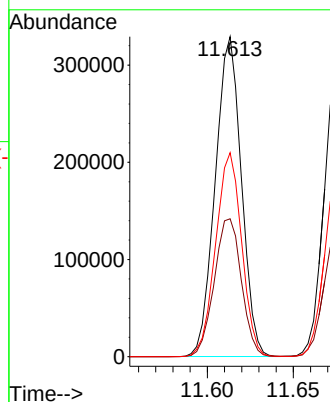
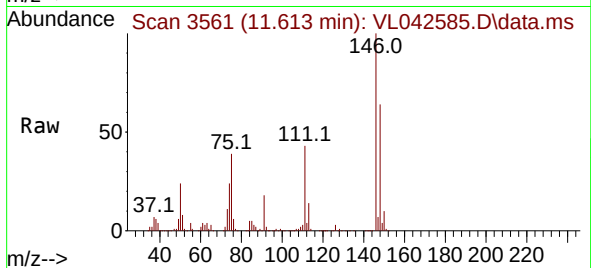
Tgt Ion:146 Resp: 347478

Ion Ratio Lower Upper

146 100

111 44.9 22.4 67.3

148 63.6 32.0 96.2



#76

1,4-Dichlorobenzene

Concen: 13.363 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

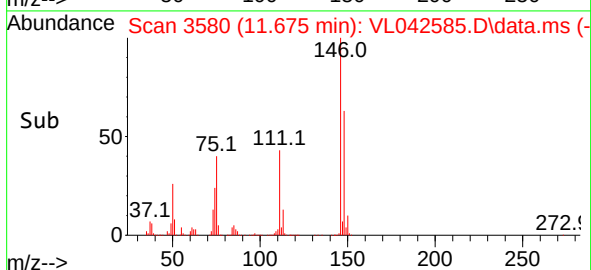
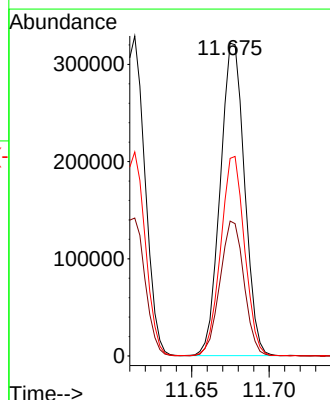
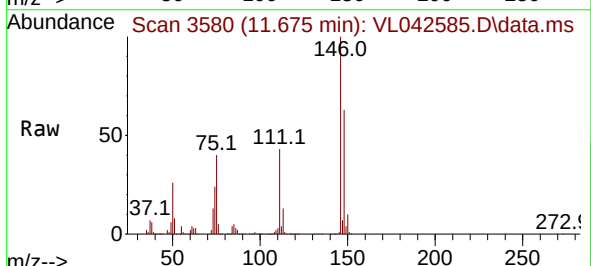
Tgt Ion:146 Resp: 350757

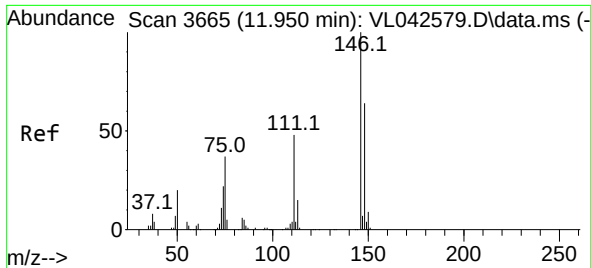
Ion Ratio Lower Upper

146 100

111 43.0 21.6 64.8

148 63.2 32.1 96.5

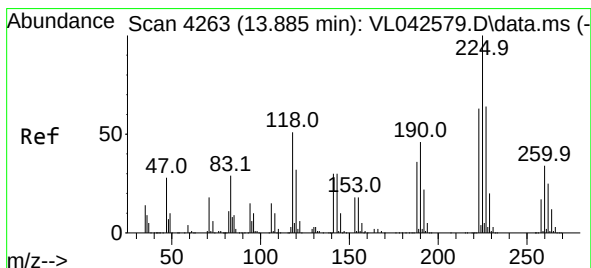
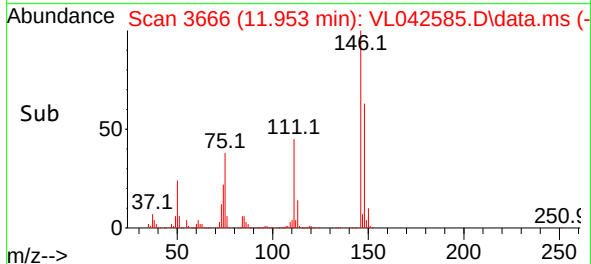
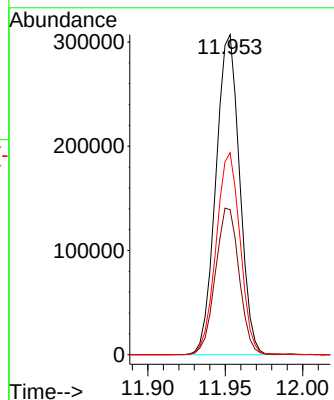
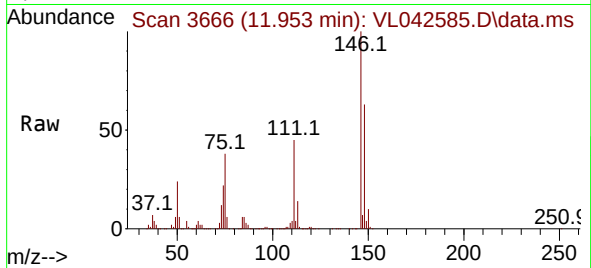




#77
1,2-Dichlorobenzene
Concen: 12.800 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.003 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

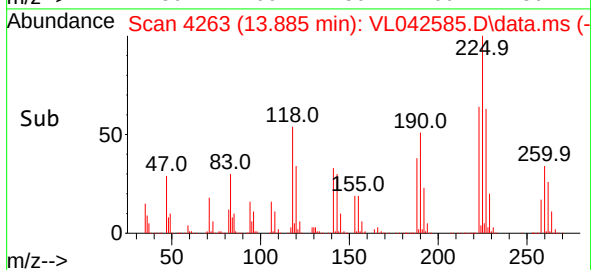
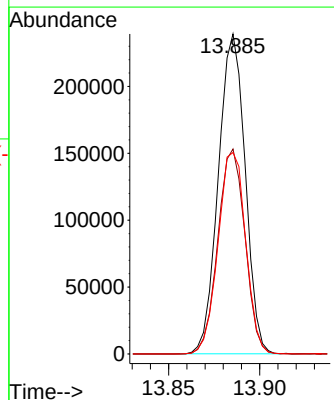
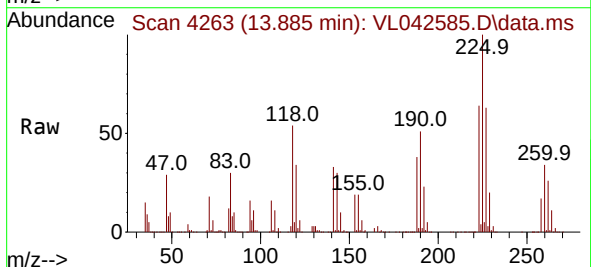
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

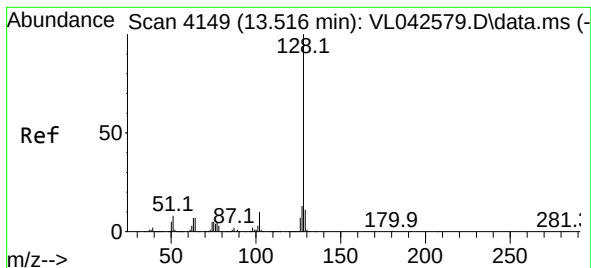
Tgt Ion:146 Resp: 326960
Ion Ratio Lower Upper
146 100
111 46.0 23.1 69.3
148 63.9 32.1 96.3



#78
Hexachloro-1,3-Butadiene
Concen: 11.563 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL042585.D
Acq: 29 May 2025 14:24

Tgt Ion:225 Resp: 244375
Ion Ratio Lower Upper
225 100
223 64.8 50.2 75.4
227 64.8 51.1 76.7





#79

Naphthalene

Concen: 14.318 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

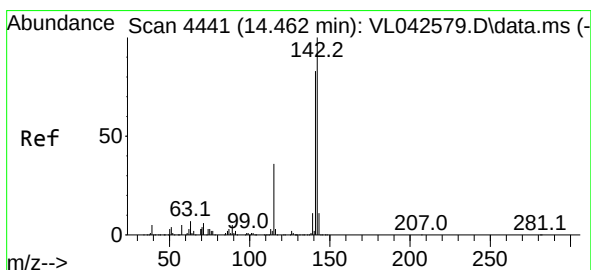
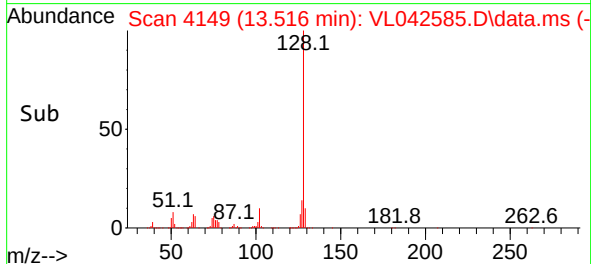
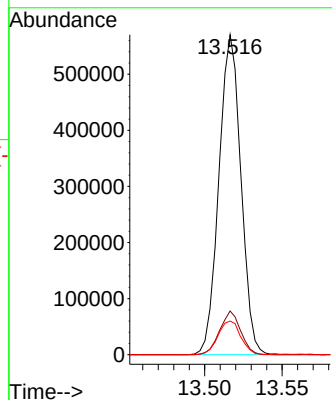
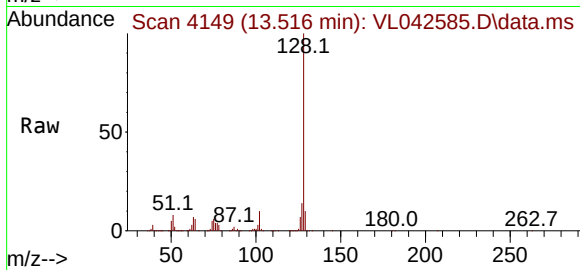
Tgt Ion:128 Resp: 563437

Ion Ratio Lower Upper

128 100

127 13.6 10.2 15.4

129 10.5 8.8 13.2



#80

Naphthalene,2-methyl-

Concen: 17.196 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.003 min

Lab File: VL042585.D

Acq: 29 May 2025 14:24

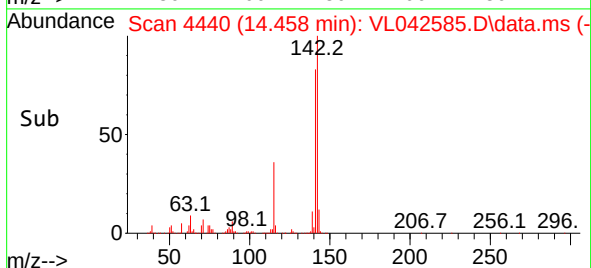
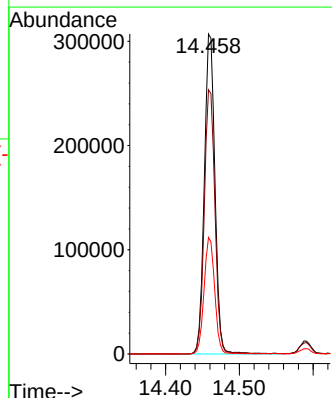
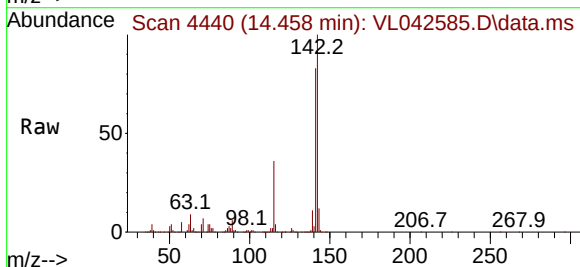
Tgt Ion:142 Resp: 306586

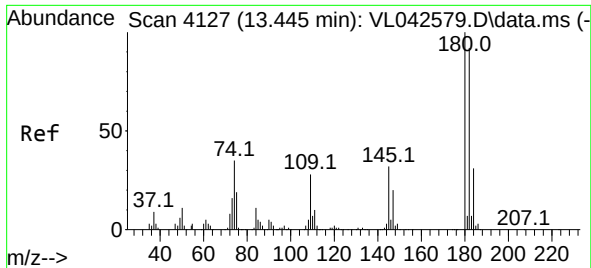
Ion Ratio Lower Upper

142 100

141 83.4 66.2 99.4

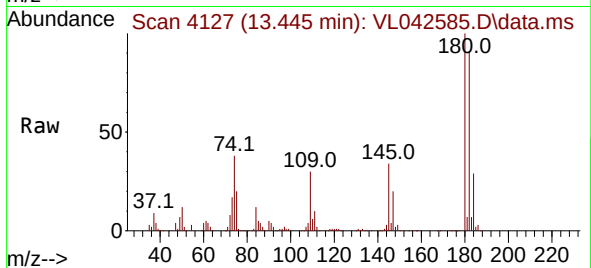
115 36.6 28.3 42.5



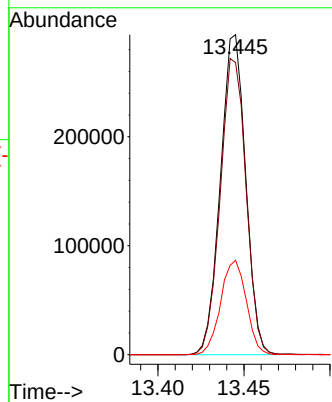
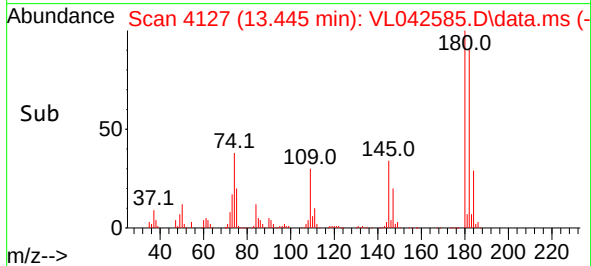


#81
 1,2,4-Trichlorobenzene
 Concen: 13.598 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042585.D
 Acq: 29 May 2025 14:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 299869
 Ion Ratio Lower Upper
 180 100
 182 94.5 75.0 112.4
 184 29.9 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	102428	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	301054	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	275875	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	203743	9.852	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	115266	9.156	ppbv	97
3) Chlorodifluoromethane	1.476	51	150107	8.658	ppbv	99
4) Chloromethane	1.534	50	45964	9.220	ppbv	99
5) Vinyl Chloride	1.583	62	43925	8.650	ppbv	98
6) Bromomethane	1.670	94	20899	8.455	ppbv	96
7) Chloroethane	1.706	64	16853	8.541	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	97812	9.325	ppbv	98
9) Propene	1.486	41	60663	8.688	ppbv	98
10) Heptane	4.991	43	179146	9.102	ppbv	99
11) Trichlorofluoromethane	1.881	101	111088	9.484	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	90493	9.839	ppbv	98
13) Ethanol	1.722	45	4952	5.951	ppbv	97
14) Bromoethene	1.783	108	31882	9.215	ppbv	97
15) Acetone	1.838	43	93713	7.596	ppbv	99
16) 1,3-Butadiene	1.612	39	51473	8.807	ppbv	98
17) tert-Butyl alcohol	2.042	59	123536	9.611	ppbv	99
18) 1,1-Dichloroethene	2.036	96	40171	9.423	ppbv	94
19) Isopropyl Alcohol	1.887	45	65635	8.899	ppbv	99
20) Methylene Chloride	2.065	84	34380	8.444	ppbv	98
21) Allyl Chloride	2.097	41	80936	9.297	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	46389	9.742	ppbv	99
23) Vinyl Acetate	2.466	43	168496	10.103	ppbv	99
24) 1,1-Dichloroethane	2.411	63	92180	9.408	ppbv	99
25) Ethyl Acetate	2.839	43	309666	9.171	ppbv	99
26) Hexane	2.829	57	136378	8.889	ppbv	99
27) Carbon Disulfide	2.152	76	114756	9.743	ppbv #	92
28) Methyl tert-Butyl Ether	2.444	73	57913	9.302	ppbv	100
29) Chloroform	2.852	83	180696	9.057	ppbv	96
30) Cyclohexane	3.861	84	116986	9.198	ppbv	97
31) cis-1,2-Dichloroethene	2.725	61	130619	9.307	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	185017	9.077	ppbv	100
34) 2-Butanone	2.560	43	198226	9.233	ppbv	100
35) Carbon Tetrachloride	3.771	117	186286	9.374	ppbv	100
36) Benzene	3.664	78	274314	9.253	ppbv	99
37) 1,2-Dichloroethane	3.224	62	140785	9.555	ppbv	99
38) Trichloroethene	4.557	130	115086	9.133	ppbv	96
39) 1,2-Dichloropropane	4.324	63	98542	8.988	ppbv	99
40) 1,4-Dioxane	4.590	88	45655	9.306	ppbv #	99
41) Tetrahydrofuran	3.059	42	116984	9.309	ppbv	98
42) Bromodichloromethane	4.496	83	202489	9.676	ppbv	92
43) Methyl Methacrylate	4.891	69	108397	9.421	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	461095	9.093	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	77241	5.866	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

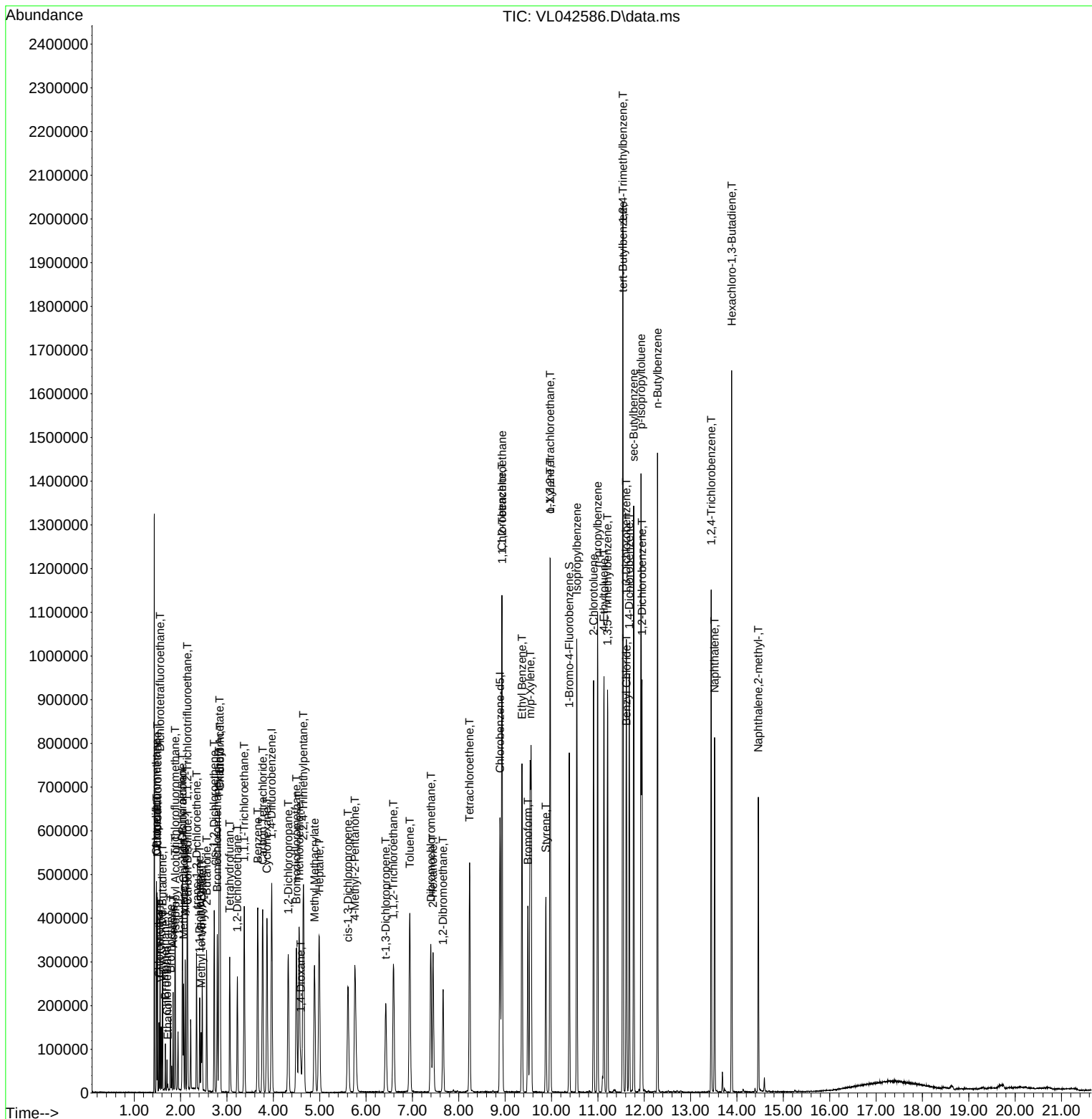
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 MSVOA_L
 ClientSampleId :
 ICVVL052925

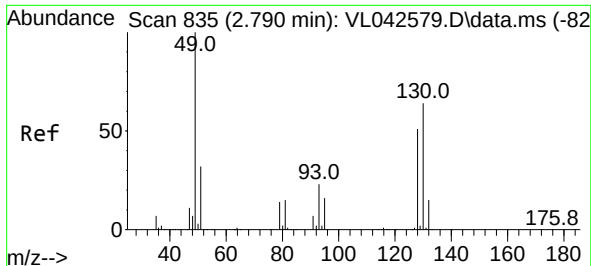
Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	156828	9.505	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	103138	9.088	ppbv	92
48) Dibromochloromethane	7.399	129	170606	9.391	ppbv	99
49) Bromoform	9.493	173	152725	9.742	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	278990	9.369	ppbv	100
51) 2-Hexanone	7.444	43	228036	9.655	ppbv	98
52) Tetrachloroethene	8.231	164	98872	8.925	ppbv	99
53) Toluene	6.943	91	319640	9.329	ppbv	99
54) 1,2-Dibromoethane	7.661	107	157298	9.364	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	127601	9.199	ppbv	97
57) Chlorobenzene	8.930	112	242533	9.054	ppbv	97
58) Ethyl Benzene	9.364	91	432250	9.237	ppbv	97
59) m/p-Xylene	9.542	91	341761	9.281	ppbv #	29
60) o-Xylene	9.972	91	333107	9.069	ppbv	100
61) Styrene	9.878	104	163167	9.396	ppbv	100
62) Isopropylbenzene	10.545	105	491107	9.051	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	204322	8.749	ppbv	100
64) n-propylbenzene	10.995	120	131695	9.054	ppbv	100
65) tert-Butylbenzene	11.539	119	431251	8.758	ppbv	98
66) Benzyl Chloride	11.620	91	59801	9.435	ppbv	100
67) sec-Butylbenzene	11.772	105	607905	8.781	ppbv	99
69) p-Isopropyltoluene	11.930	119	512739	8.844	ppbv	100
70) n-Butylbenzene	12.286	91	514931	8.998	ppbv	100
71) 2-Chlorotoluene	10.908	91	377413	9.119	ppbv	99
72) 4-Ethyltoluene	11.131	105	412686	9.012	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	346043	9.131	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	371879	8.842	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	234703	8.886	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	237978	9.034	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	224400	8.754	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	169185	7.977	ppbv	99
79) Naphthalene	13.516	128	383192	9.666	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	194375	10.853	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	198696	8.978	ppbv	98

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

Quant Time: May 30 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

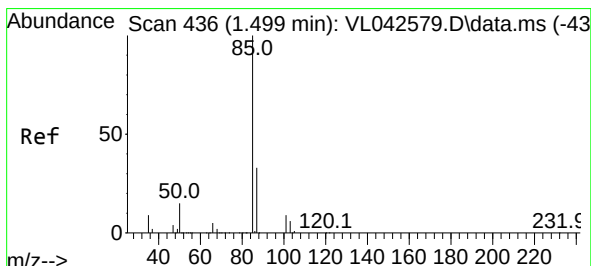
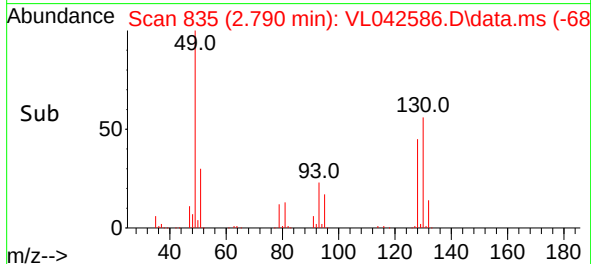
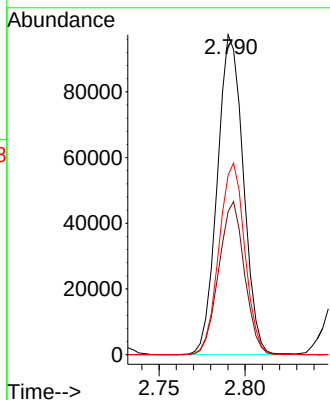
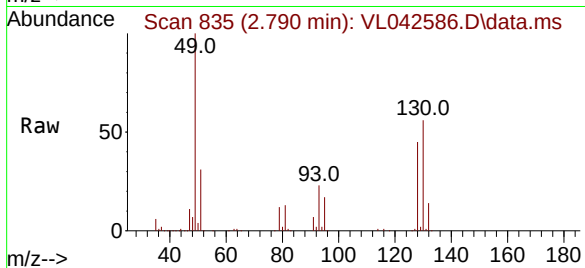




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

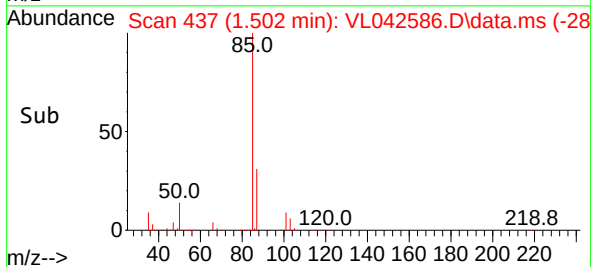
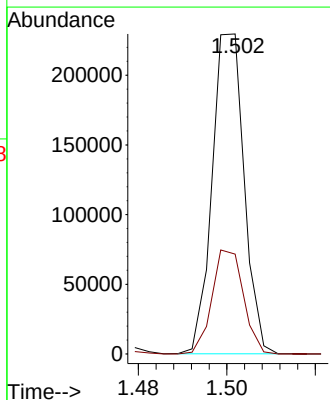
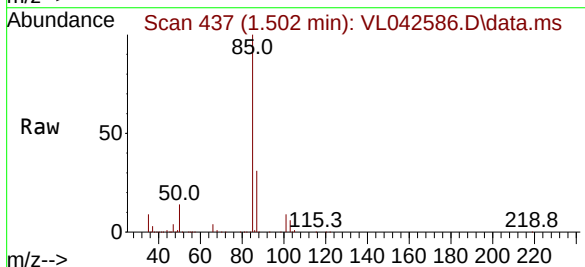
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

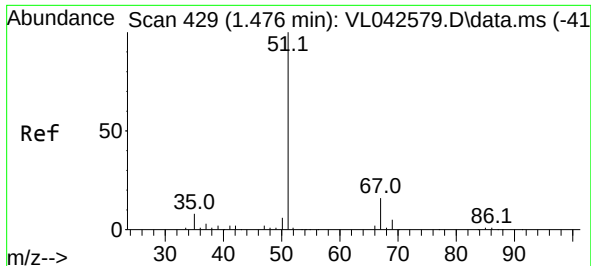
Tgt Ion: 49 Resp: 102428
Ion Ratio Lower Upper
49 100
128 47.4 24.2 72.6
130 59.4 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 9.156 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 85 Resp: 115266
Ion Ratio Lower Upper
85 100
87 31.2 26.6 39.8

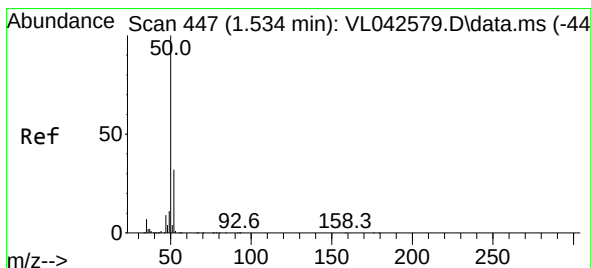
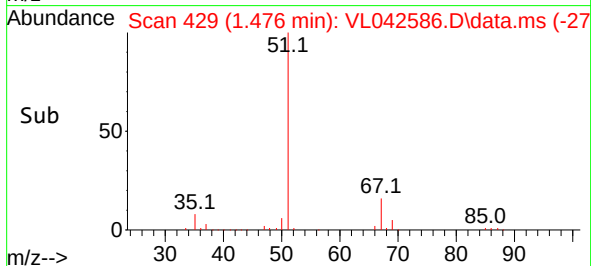
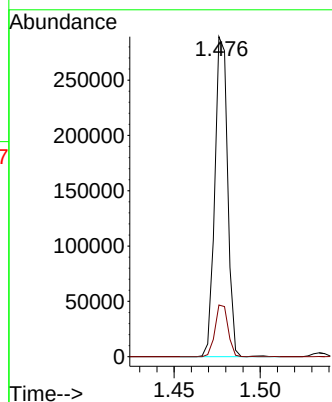
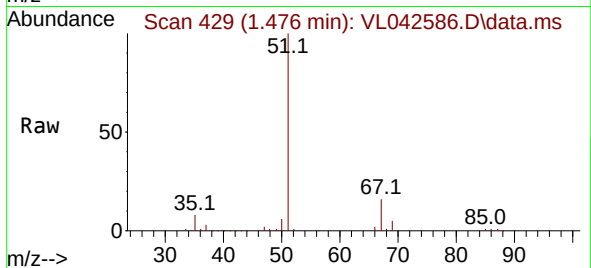




#3
Chlorodifluoromethane
Concen: 8.658 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

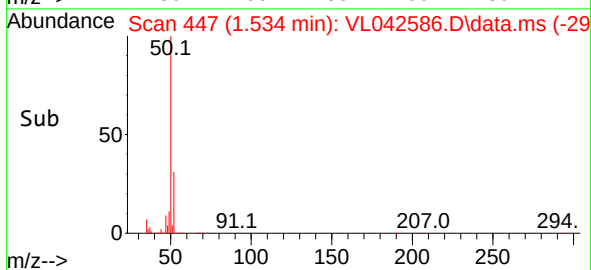
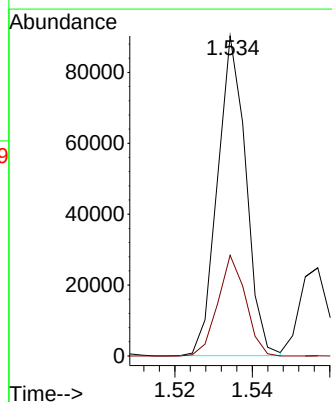
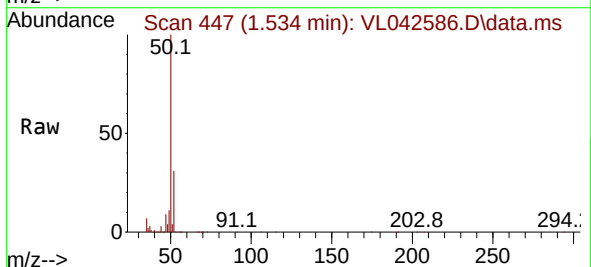
Instrument : MSVOA_L
ClientSampleId : ICVVL052925

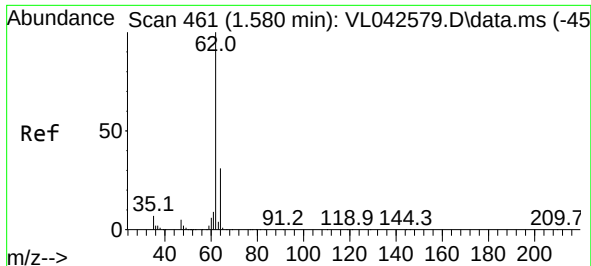
Tgt Ion: 51 Resp: 150107
Ion Ratio Lower Upper
51 100
67 16.5 13.4 20.2



#4
Chloromethane
Concen: 9.220 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 50 Resp: 45964
Ion Ratio Lower Upper
50 100
52 31.5 25.8 38.6

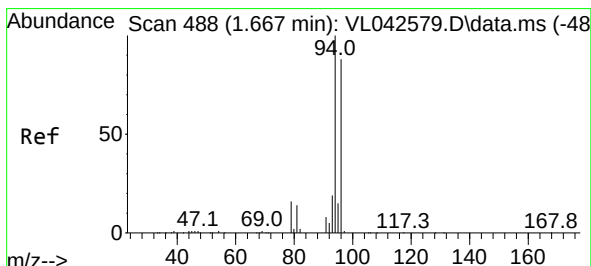
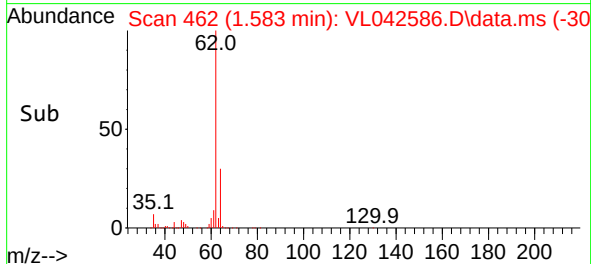
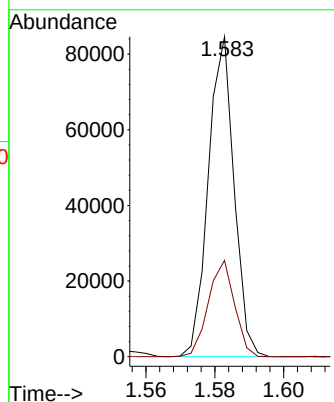
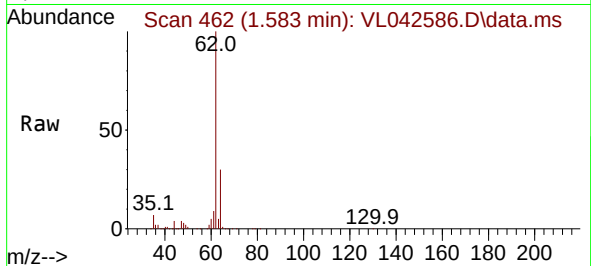




#5
 Vinyl Chloride
 Concen: 8.650 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.003 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

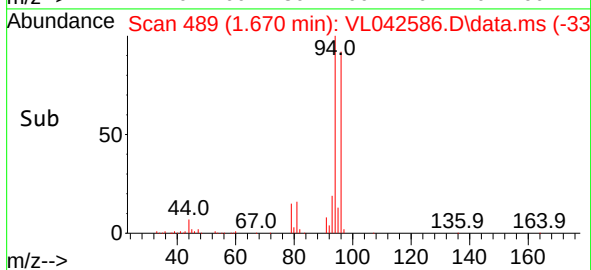
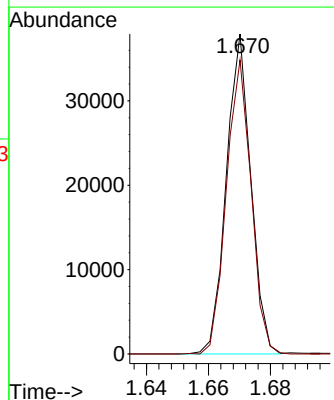
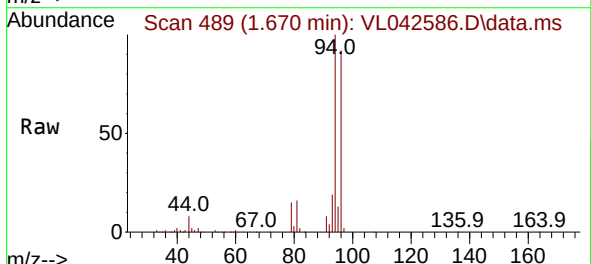
Instrument :
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 ClientSampleId :
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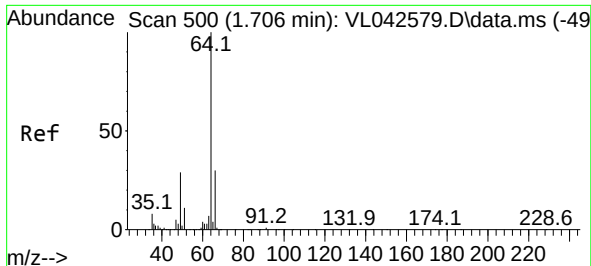
Tgt Ion: 62 Resp: 43925
 Ion Ratio Lower Upper
 62 100
 64 30.1 24.9 37.3



#6
 Bromomethane
 Concen: 8.455 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

Tgt Ion: 94 Resp: 20899
 Ion Ratio Lower Upper
 94 100
 96 91.9 70.7 106.1

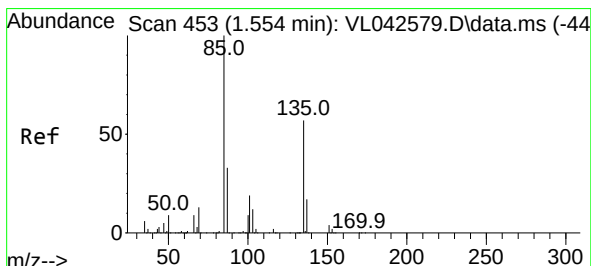
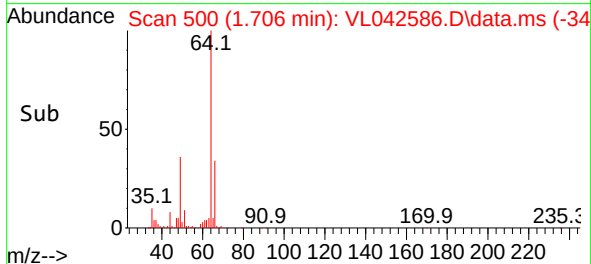
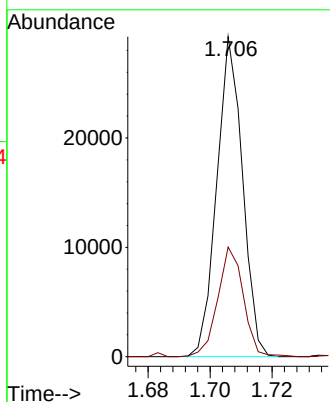
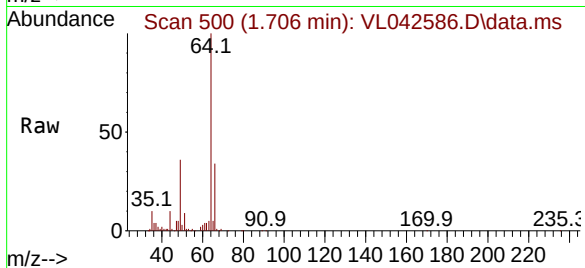




#7
Chloroethane
Concen: 8.541 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

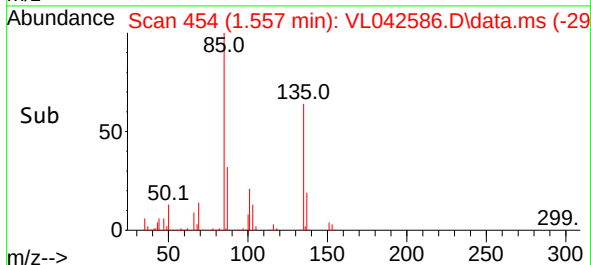
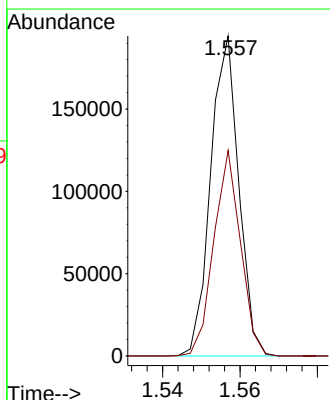
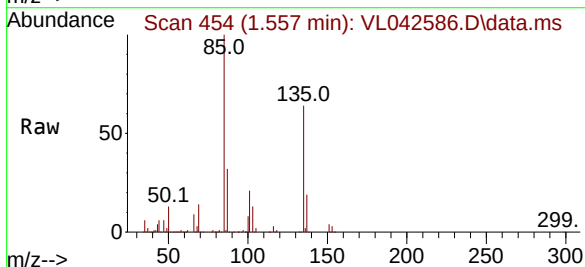
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

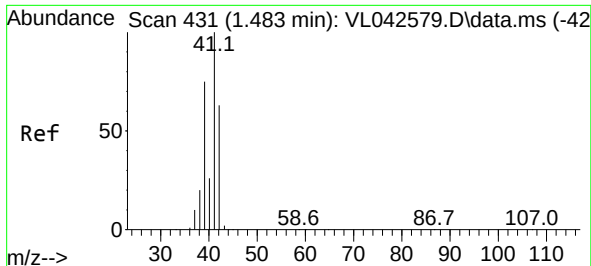
Tgt Ion: 64 Resp: 16853
Ion Ratio Lower Upper
64 100
66 34.3 24.3 36.5



#8
Dichlorotetrafluoroethane
Concen: 9.325 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 85 Resp: 97812
Ion Ratio Lower Upper
85 100
135 61.2 50.2 75.4





#9

Propene

Concen: 8.688 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

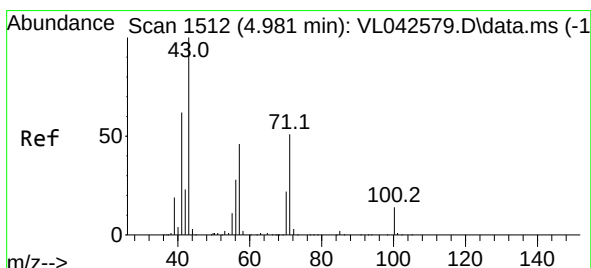
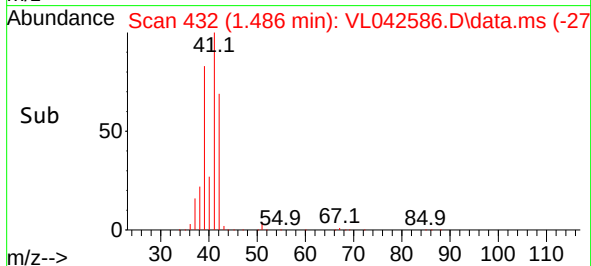
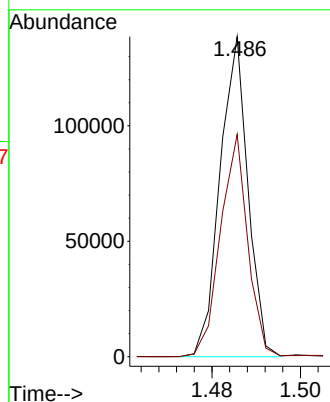
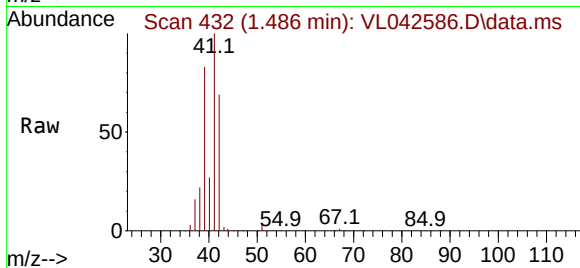
ICVVL052925

Tgt Ion: 41 Resp: 60663

Ion Ratio Lower Upper

41 100

42 68.4 53.3 79.9



#10

Heptane

Concen: 9.102 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.010 min

Lab File: VL042586.D

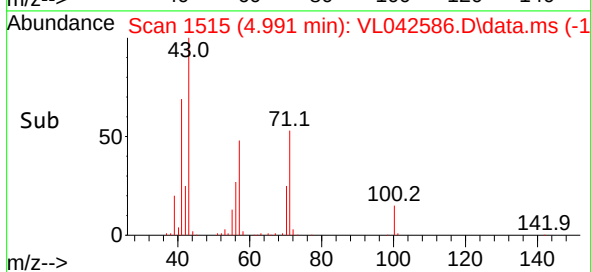
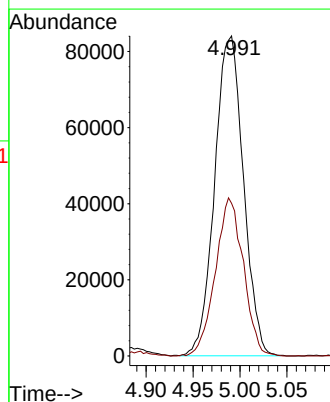
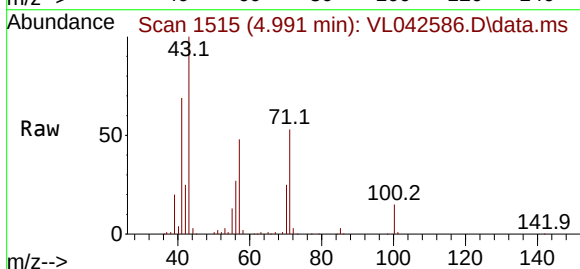
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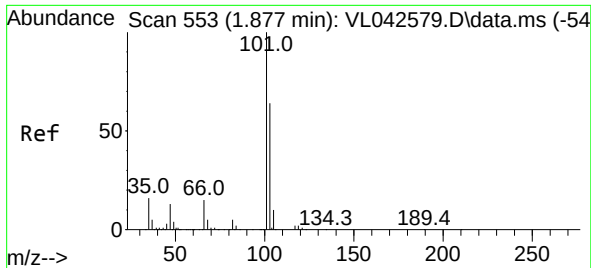
Tgt Ion: 43 Resp: 179146

Ion Ratio Lower Upper

43 100

57 48.0 38.9 58.3

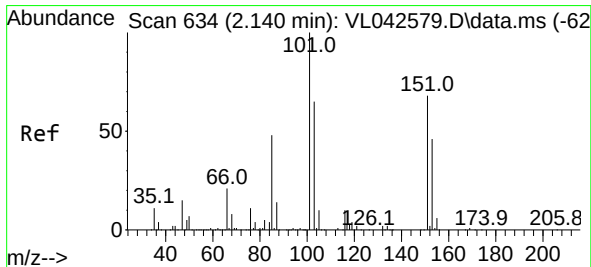
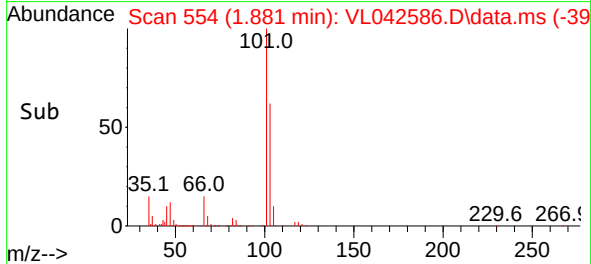
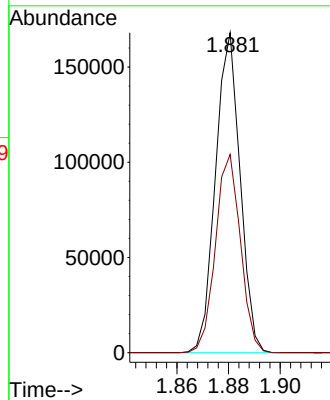
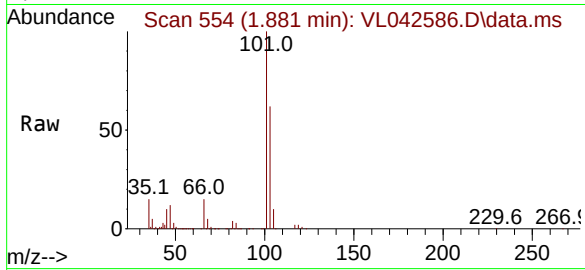




#11
 Trichlorofluoromethane
 Concen: 9.484 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

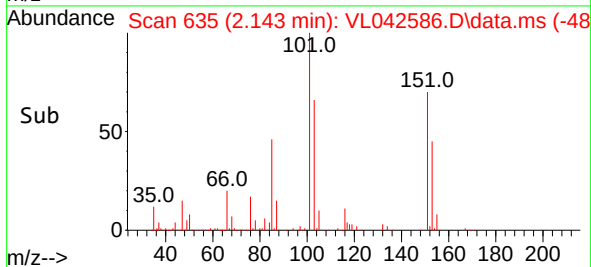
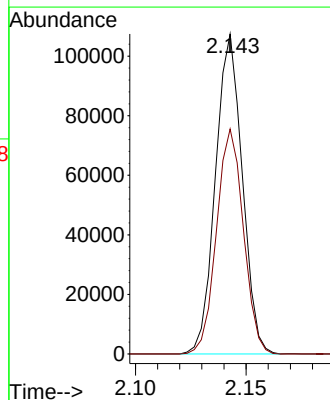
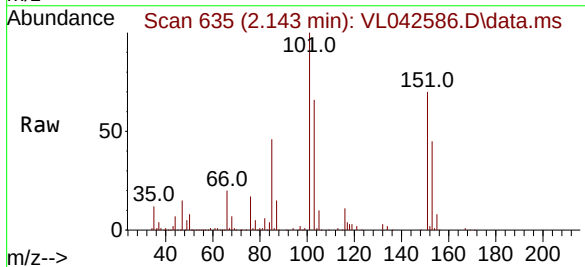
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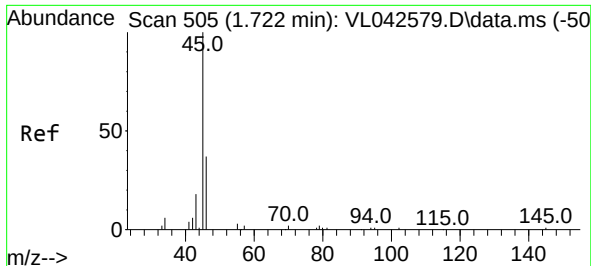
Tgt Ion:101 Resp: 111088
 Ion Ratio Lower Upper
 101 100
 103 61.9 51.5 77.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.839 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.003 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

Tgt Ion:101 Resp: 90493
 Ion Ratio Lower Upper
 101 100
 151 70.4 55.3 82.9

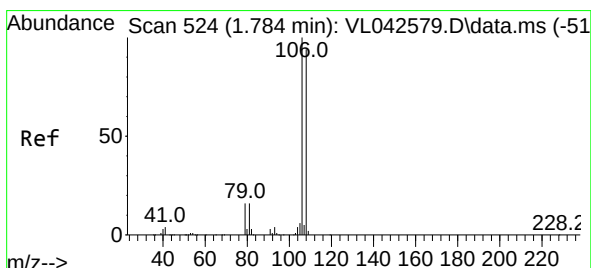
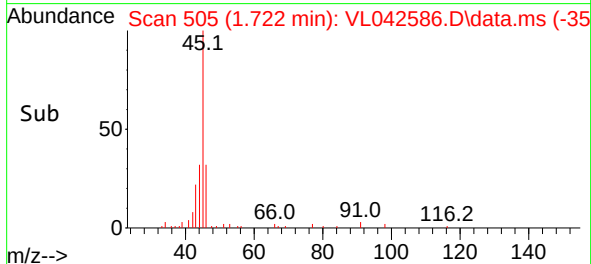
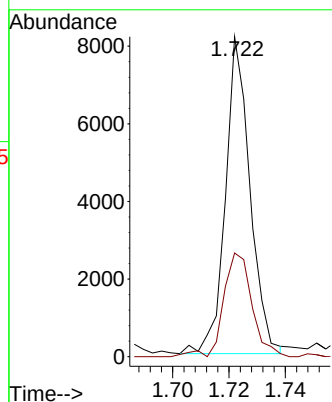
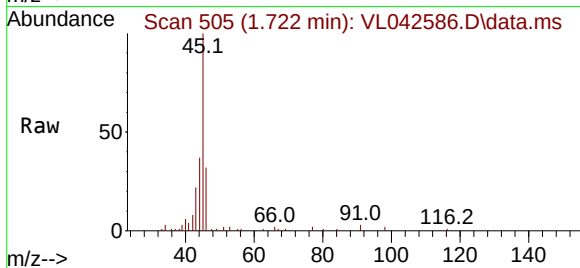




#13
Ethanol
Concen: 5.951 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

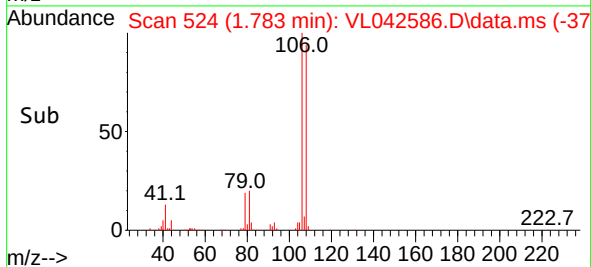
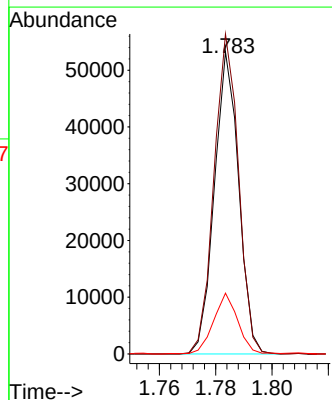
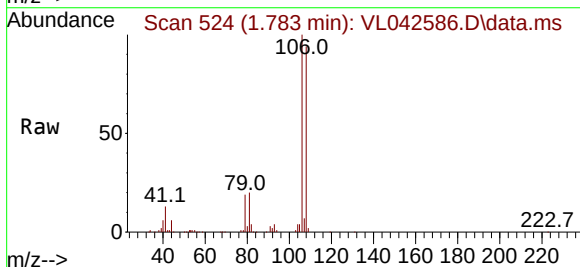
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ClientSampleId :
ICVVL052925

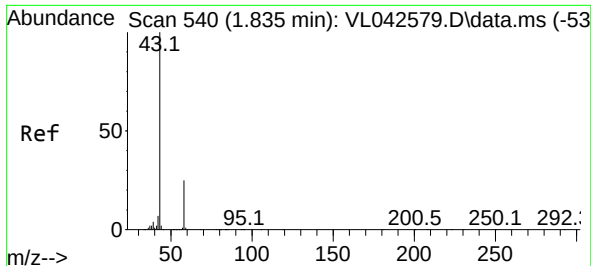
Tgt Ion: 45 Resp: 4952
Ion Ratio Lower Upper
45 100
46 38.2 14.5 58.1



#14
Bromoethene
Concen: 9.215 ppbv
RT: 1.783 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 108 Resp: 31882
Ion Ratio Lower Upper
108 100
106 106.8 87.9 131.9
79 21.2 15.6 23.4





#15

Acetone

Concen: 7.596 ppbv

RT: 1.838 min Scan# 540

Delta R.T. 0.003 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

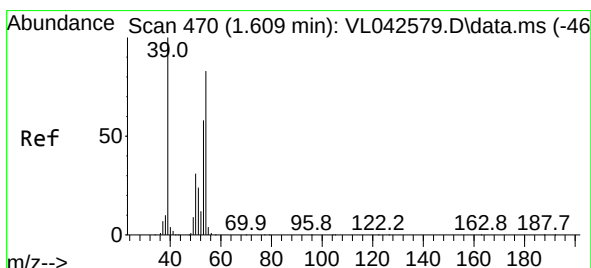
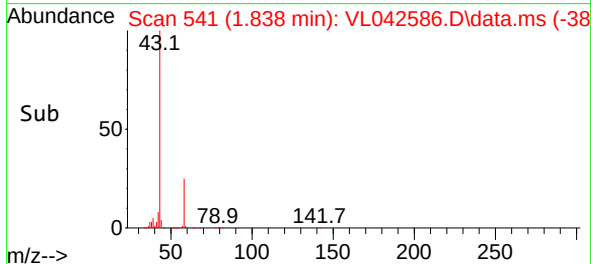
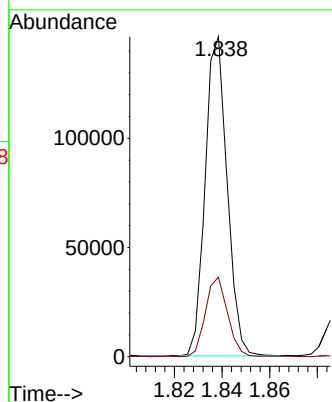
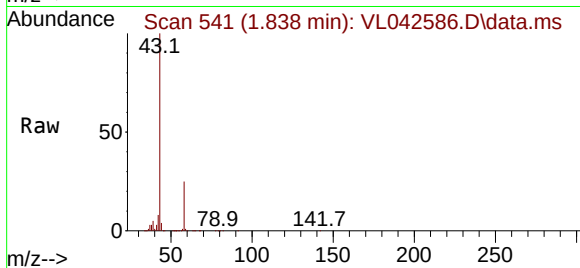
ICVVL052925

Tgt Ion: 43 Resp: 93713

Ion Ratio Lower Upper

43 100

58 25.5 21.0 31.4



#16

1,3-Butadiene

Concen: 8.807 ppbv

RT: 1.612 min Scan# 471

Delta R.T. 0.003 min

Lab File: VL042586.D

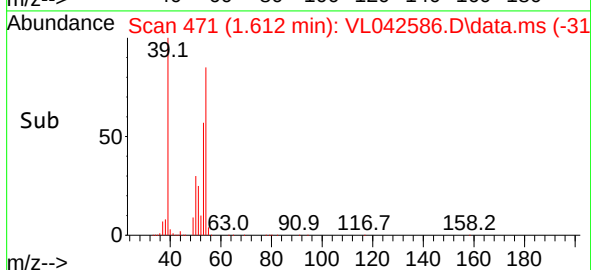
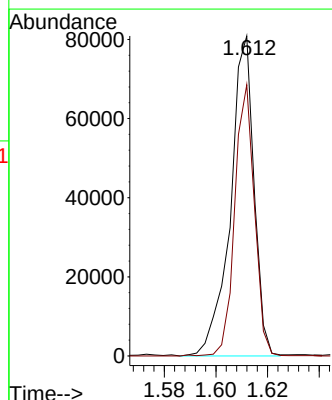
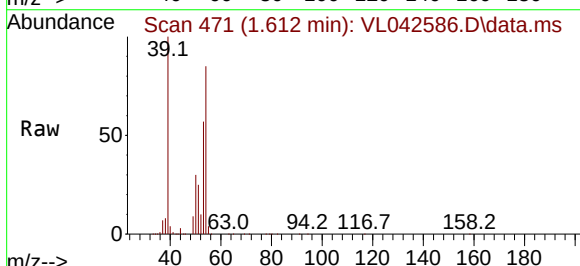
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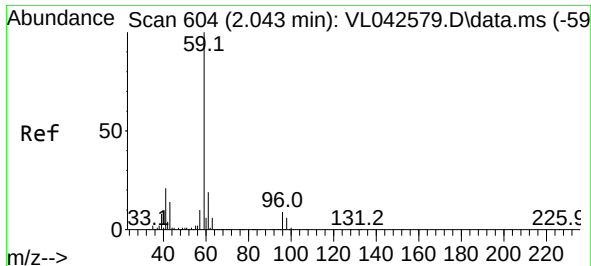
Tgt Ion: 39 Resp: 51473

Ion Ratio Lower Upper

39 100

54 70.6 57.9 86.9





#17

tert-Butyl alcohol

Concen: 9.611 ppbv

RT: 2.042 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_1

ClientSampleId :

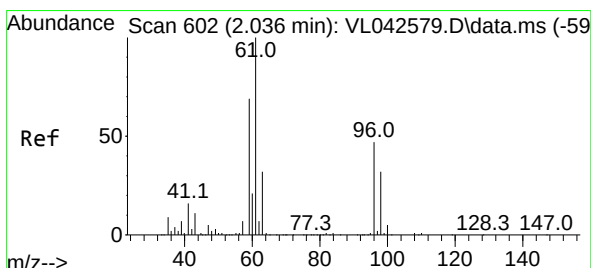
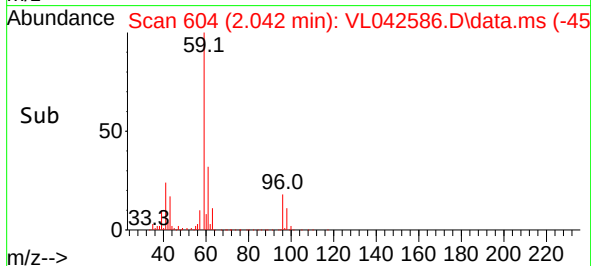
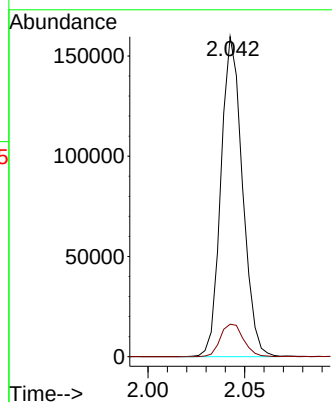
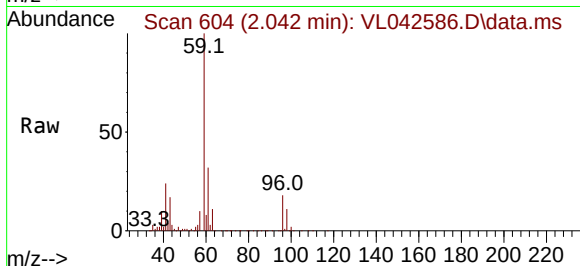
ICVVL052925

Tgt Ion: 59 Resp: 123536

Ion Ratio Lower Upper

59 100

57 11.0 8.6 12.8



#18

1,1-Dichloroethene

Concen: 9.423 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

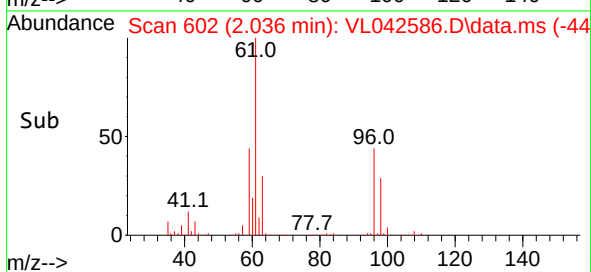
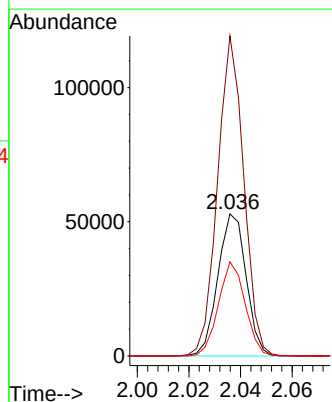
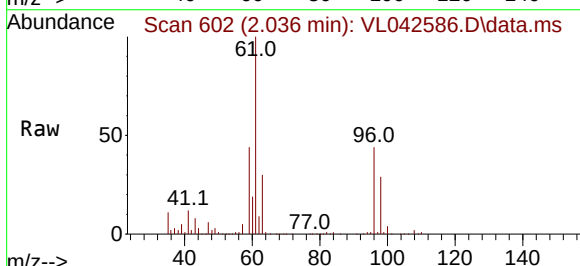
Tgt Ion: 96 Resp: 40171

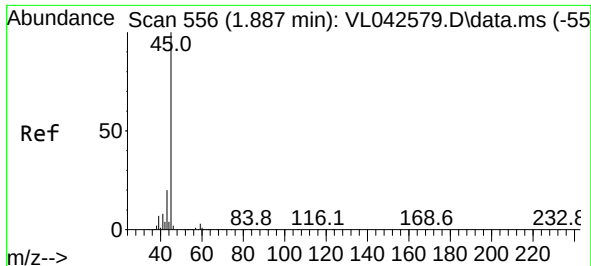
Ion Ratio Lower Upper

96 100

61 225.1 171.1 256.7

98 66.4 54.4 81.6

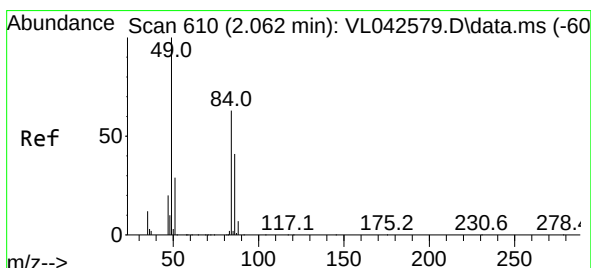
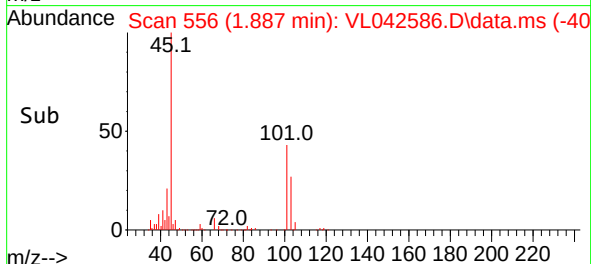
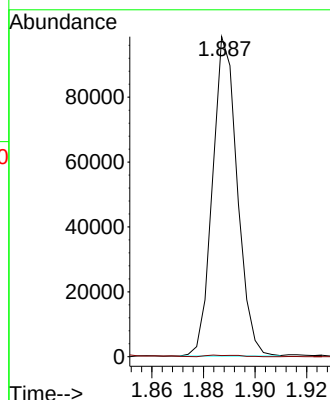
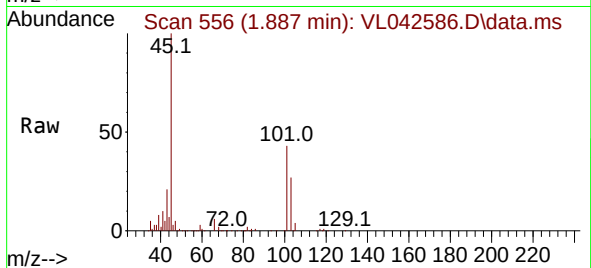




#19
Isopropyl Alcohol
Concen: 8.899 ppbv
RT: 1.887 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

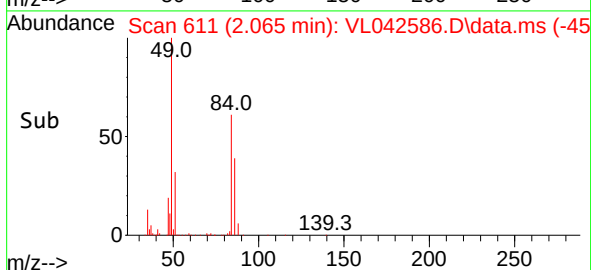
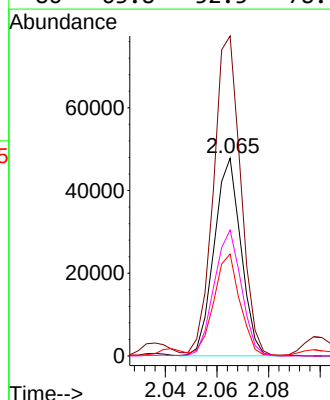
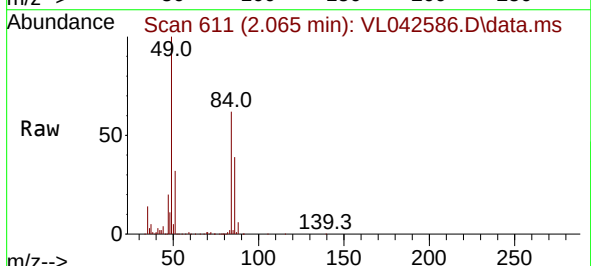
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

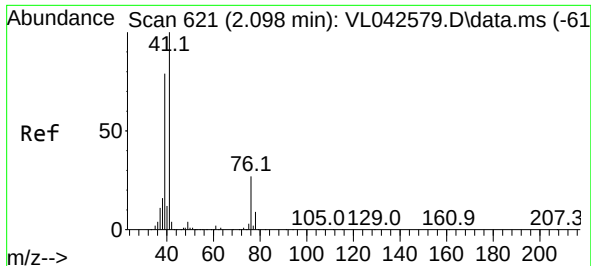
Tgt Ion: 45 Resp: 65635
Ion Ratio Lower Upper
45 100
58 36.5 29.4 44.2



#20
Methylene Chloride
Concen: 8.444 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 84 Resp: 34380
Ion Ratio Lower Upper
84 100
49 161.6 128.8 193.2
51 51.3 38.6 57.8
86 63.8 52.5 78.7

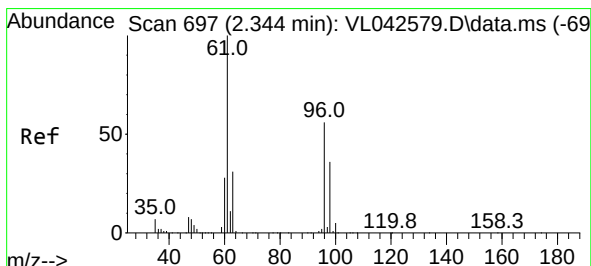
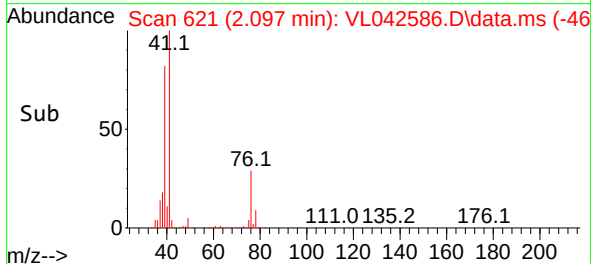
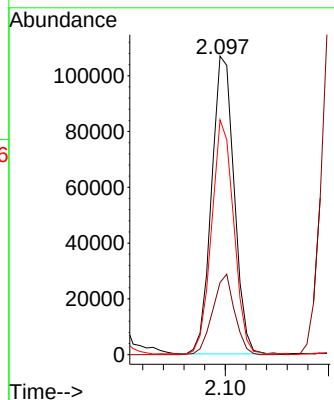
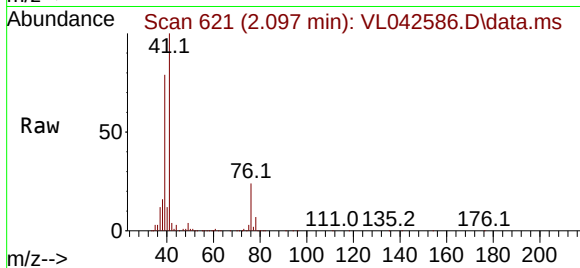




#21
 Allyl Chloride
 Concen: 9.297 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

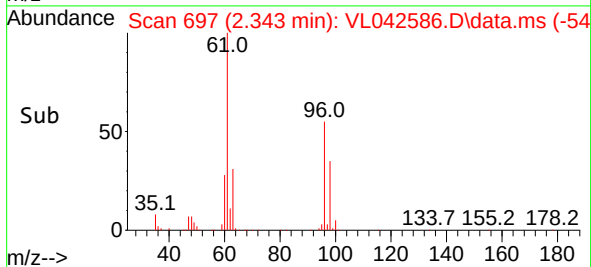
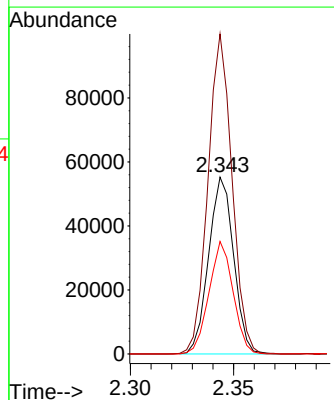
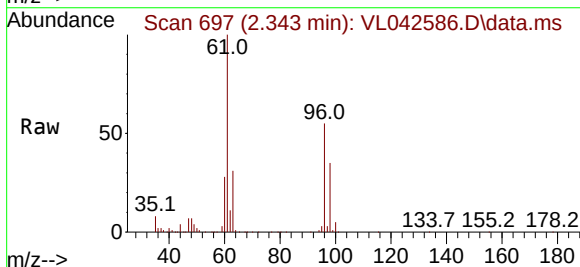
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

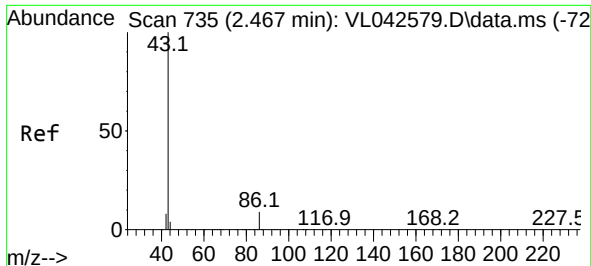
Tgt Ion: 41 Resp: 80936
 Ion Ratio Lower Upper
 41 100
 76 26.2 21.2 31.8
 39 78.2 60.9 91.3



#22
 trans-1,2-Dichloroethene
 Concen: 9.742 ppbv
 RT: 2.343 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

Tgt Ion: 96 Resp: 46389
 Ion Ratio Lower Upper
 96 100
 61 180.9 142.6 214.0
 98 63.6 51.0 76.4



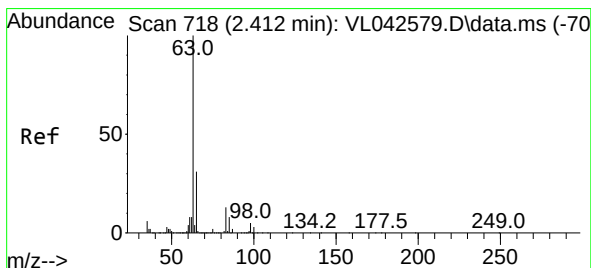
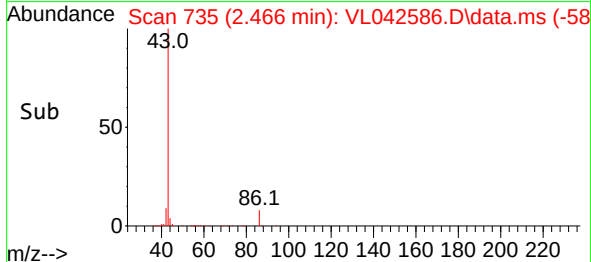
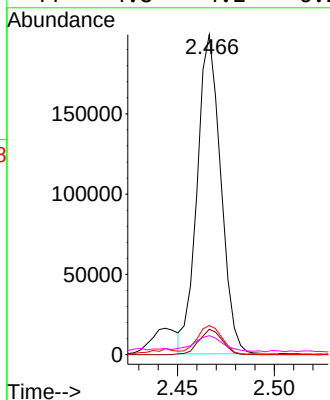
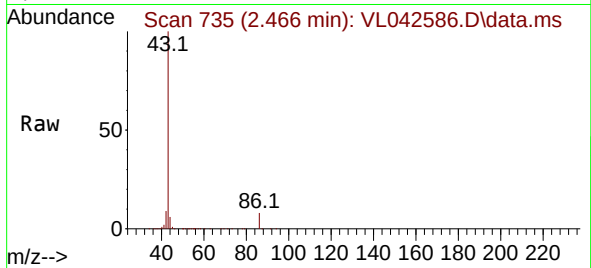


#23
 Vinyl Acetate
 Concen: 10.103 ppbv
 RT: 2.466 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL052925

Tgt Ion: 43 Resp: 168496

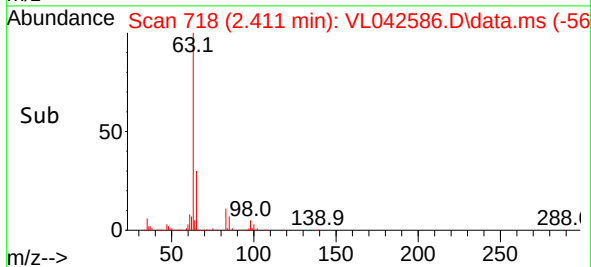
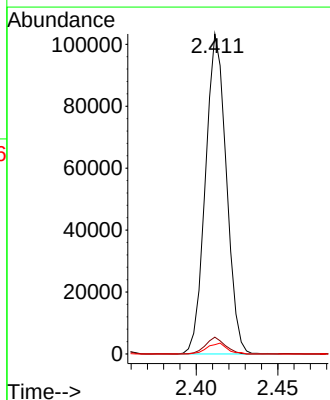
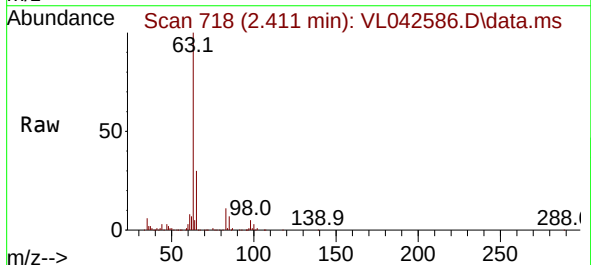
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.6	9.8
42	9.0	7.0	10.4
44	4.8	4.2	6.2

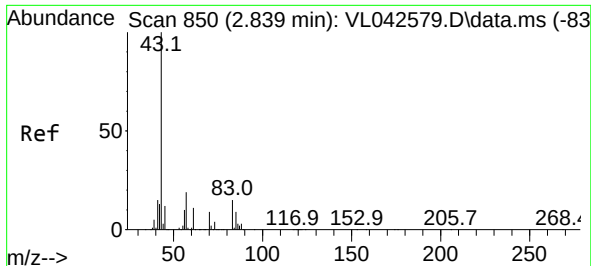


#24
 1,1-Dichloroethane
 Concen: 9.408 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

Tgt Ion: 63 Resp: 92180

Ion	Ratio	Lower	Upper
63	100		
98	5.2	2.4	7.1
100	2.9	1.4	4.0



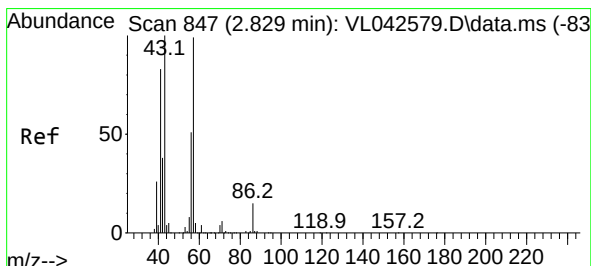
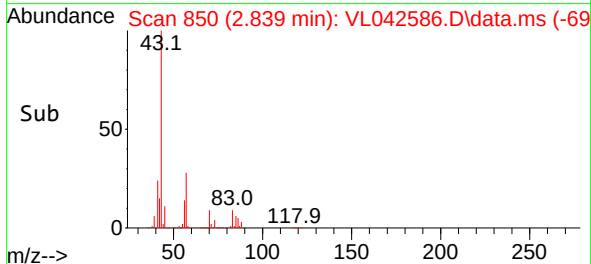
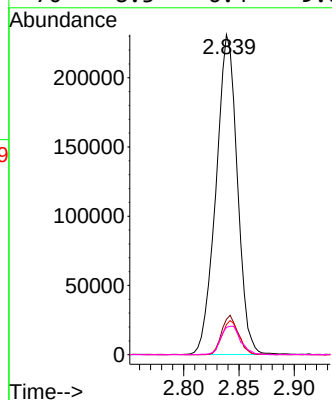
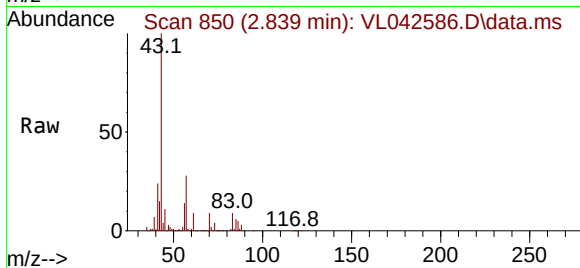


#25
Ethyl Acetate
Concen: 9.171 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Tgt Ion: 43 Resp: 309666

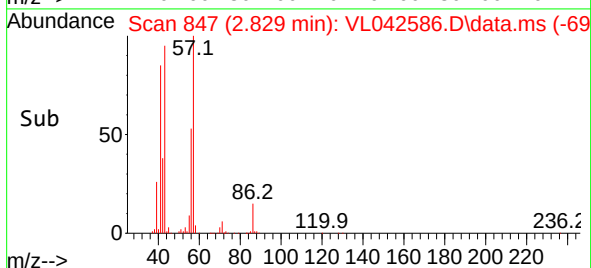
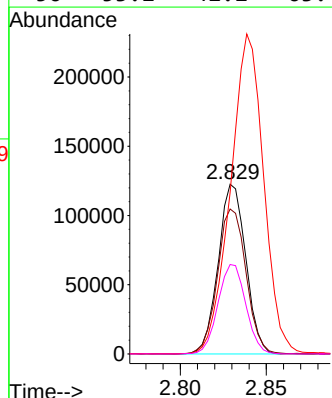
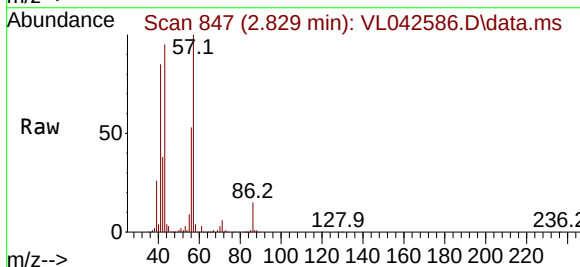
Ion	Ratio	Lower	Upper
43	100		
45	9.7	8.2	12.2
61	8.6	7.1	10.7
70	8.3	6.4	9.6

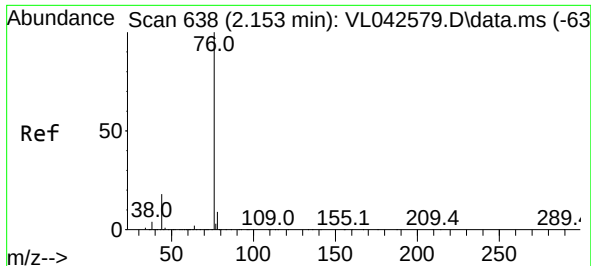


#26
Hexane
Concen: 8.889 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 57 Resp: 136378

Ion	Ratio	Lower	Upper
57	100		
41	88.9	70.6	106.0
43	227.4	181.1	271.7
56	53.2	42.2	63.4

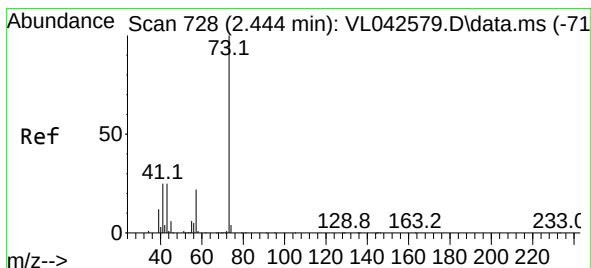
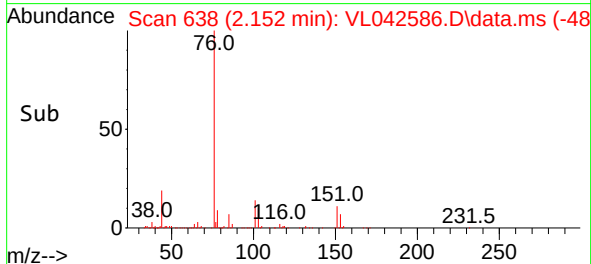
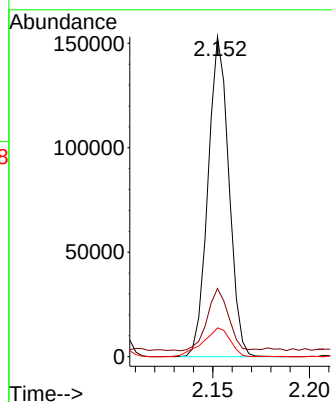
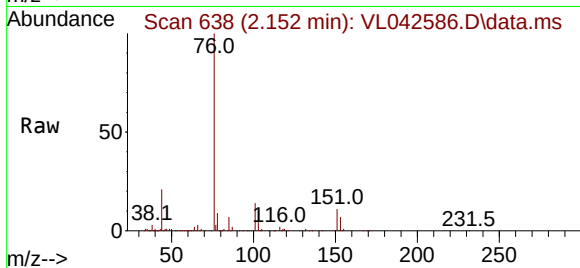




#27
Carbon Disulfide
Concen: 9.743 ppbv
RT: 2.152 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

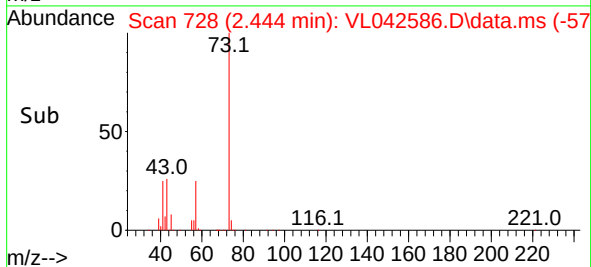
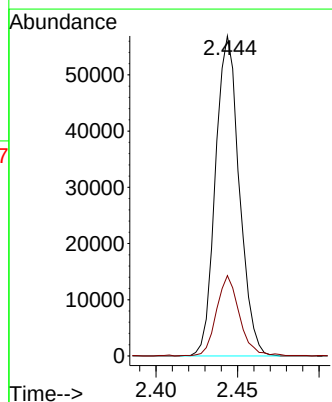
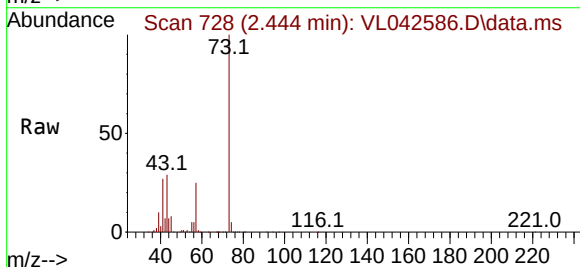
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

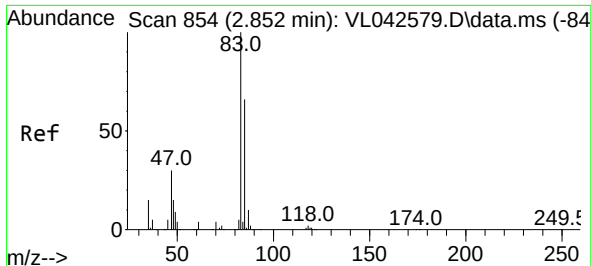
Tgt Ion: 76 Resp: 114756
Ion Ratio Lower Upper
76 100
44 20.4 21.3 31.9#
78 11.8 9.4 14.0



#28
Methyl tert-Butyl Ether
Concen: 9.302 ppbv
RT: 2.444 min Scan# 728
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 73 Resp: 57913
Ion Ratio Lower Upper
73 100
57 24.7 19.9 29.9





#29

Chloroform

Concen: 9.057 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

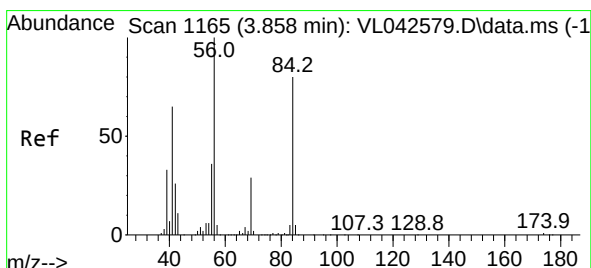
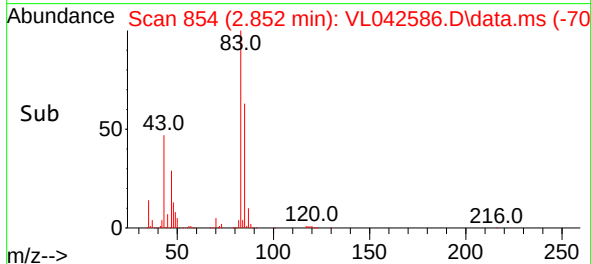
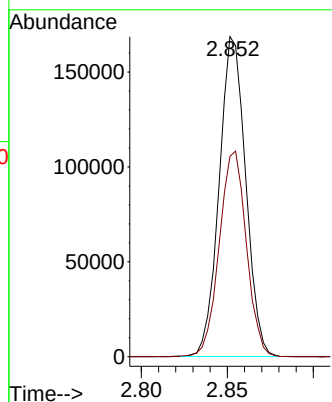
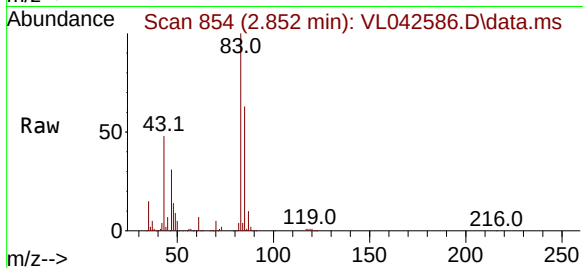
ICVVL052925

Tgt Ion: 83 Resp: 180696

Ion Ratio Lower Upper

83 100

85 62.6 52.8 79.2



#30

Cyclohexane

Concen: 9.198 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. 0.003 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

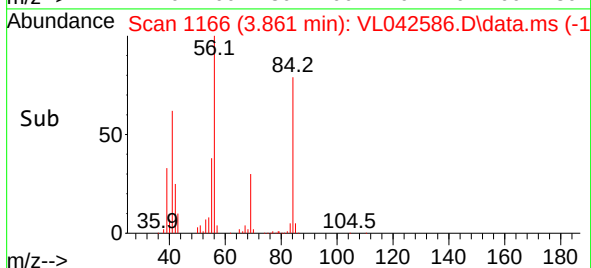
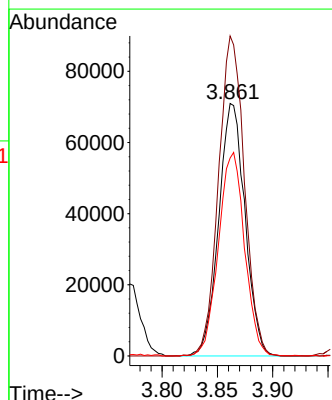
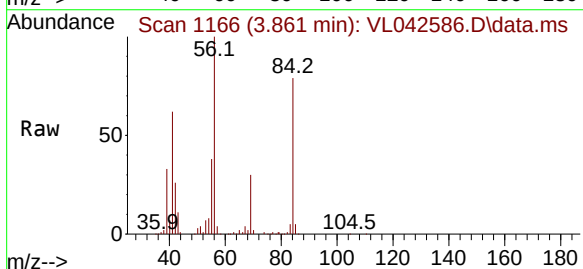
Tgt Ion: 84 Resp: 116986

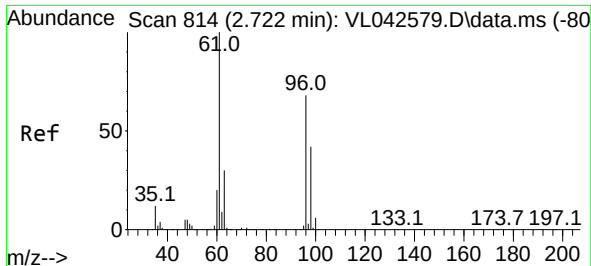
Ion Ratio Lower Upper

84 100

56 125.0 103.7 155.5

41 80.6 65.1 97.7

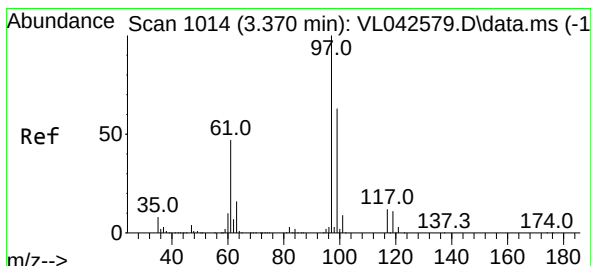
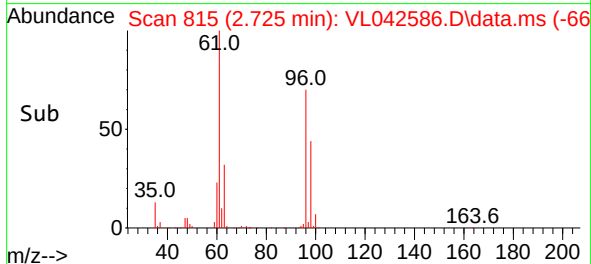
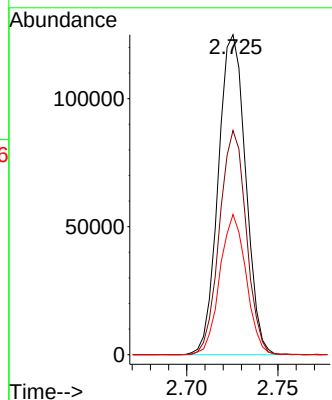
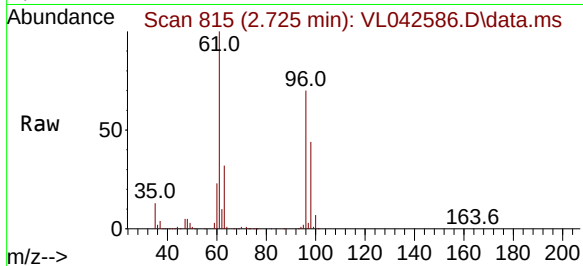




#31
 cis-1,2-Dichloroethene
 Concen: 9.307 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

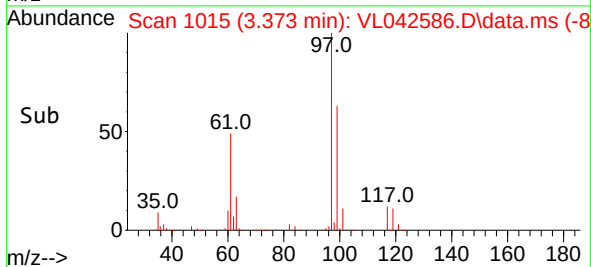
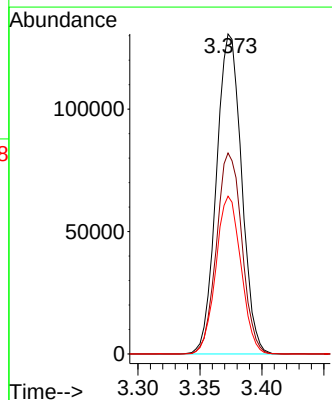
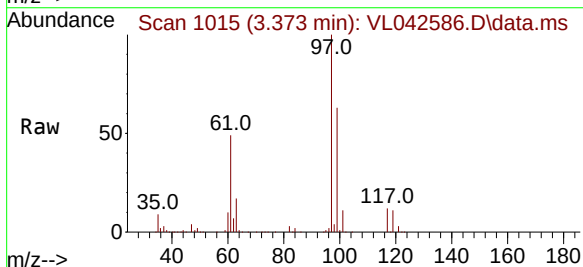
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

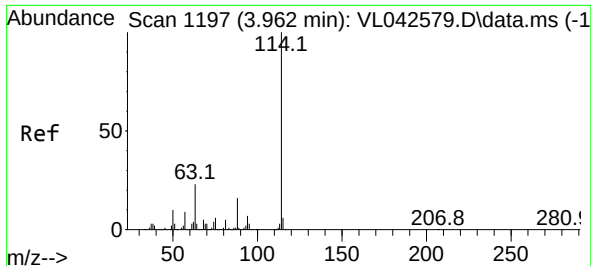
Tgt Ion: 61 Resp: 130619
 Ion Ratio Lower Upper
 61 100
 96 70.0 54.5 81.7
 98 43.8 33.4 50.2



#32
 1,1,1-Trichloroethane
 Concen: 9.077 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.003 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

Tgt Ion: 97 Resp: 185017
 Ion Ratio Lower Upper
 97 100
 99 63.4 51.0 76.6
 61 49.3 39.4 59.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.003 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_1

ClientSampleId :

ICVVL052925

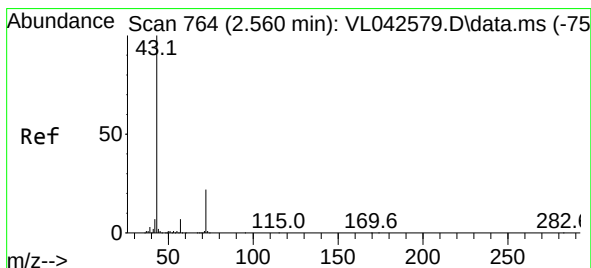
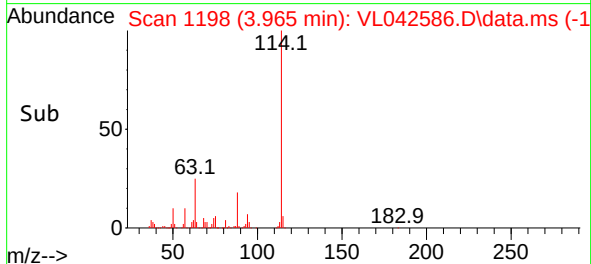
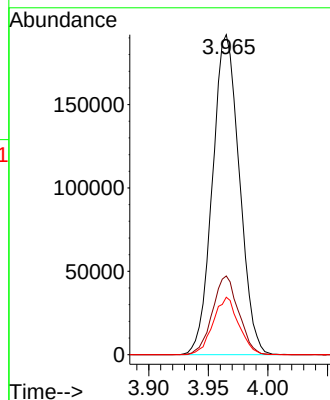
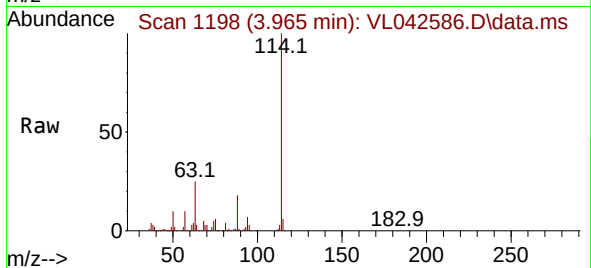
Tgt Ion:114 Resp: 301054

Ion Ratio Lower Upper

114 100

63 24.0 19.0 28.6

88 17.1 13.6 20.4



#34

2-Butanone

Concen: 9.233 ppbv

RT: 2.560 min Scan# 764

Delta R.T. -0.000 min

Lab File: VL042586.D

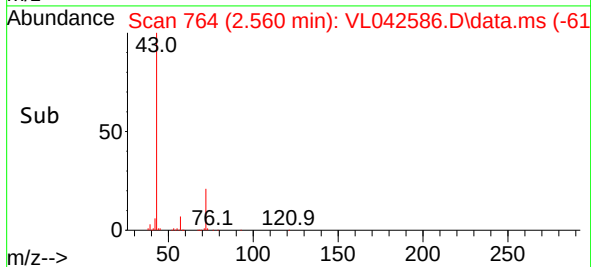
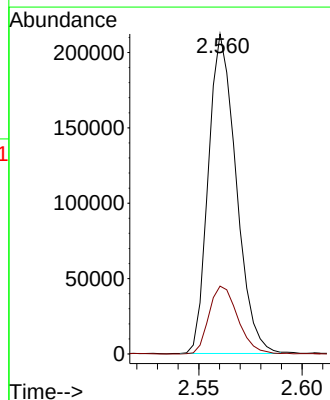
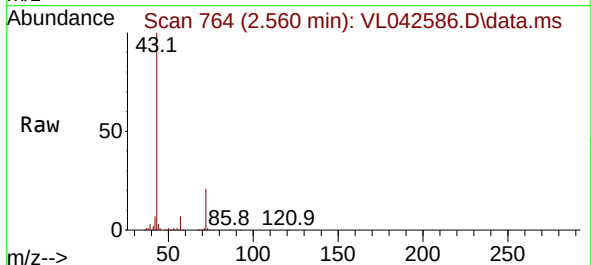
Acq: 29 May 2025 14:56

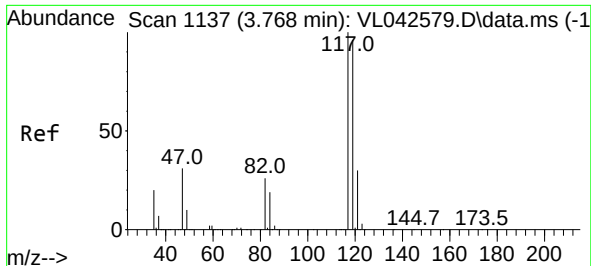
Tgt Ion: 43 Resp: 198226

Ion Ratio Lower Upper

43 100

72 22.3 17.7 26.5

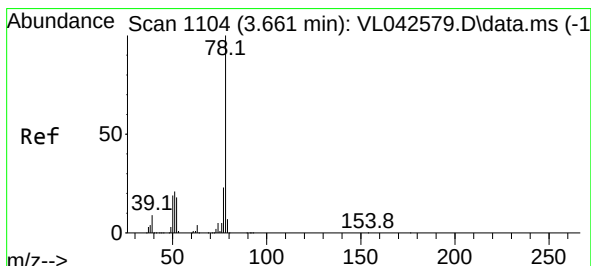
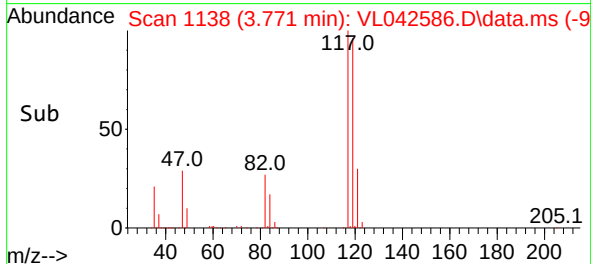
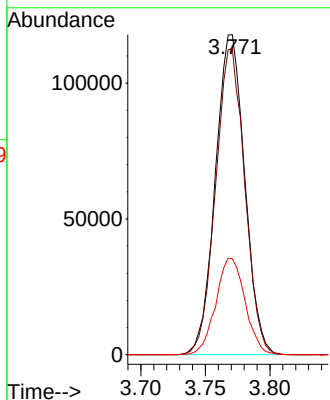
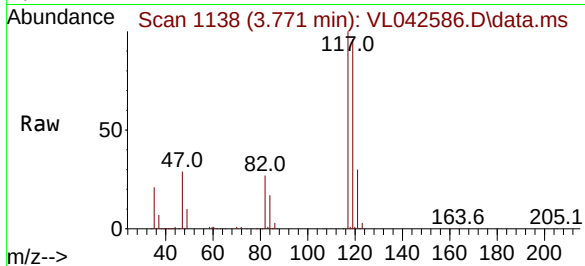




#35
Carbon Tetrachloride
Concen: 9.374 ppbv
RT: 3.771 min Scan# 1137
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

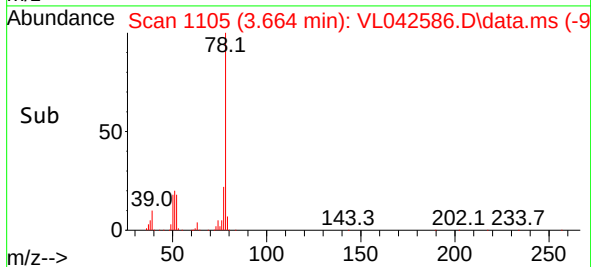
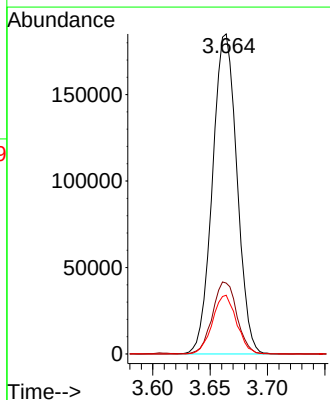
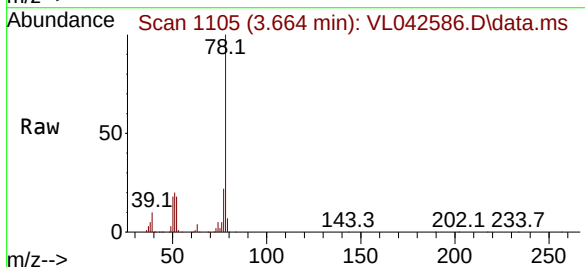
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

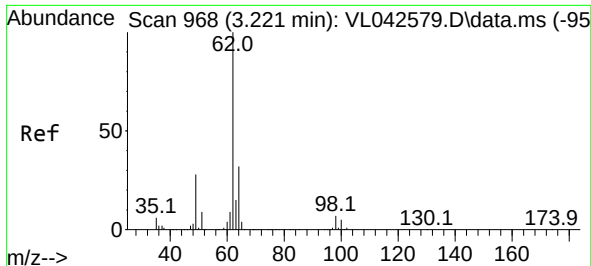
Tgt Ion:117 Resp: 186286
Ion Ratio Lower Upper
117 100
119 95.8 76.8 115.2
121 30.0 24.3 36.5



#36
Benzene
Concen: 9.253 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 78 Resp: 274314
Ion Ratio Lower Upper
78 100
77 22.1 18.2 27.2
50 18.4 15.2 22.8

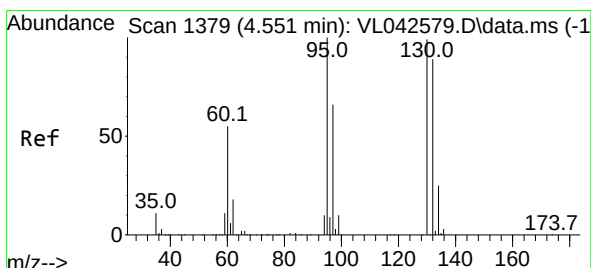
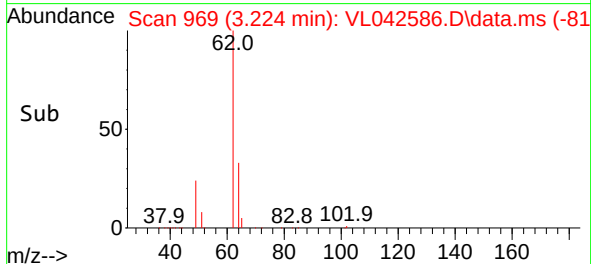
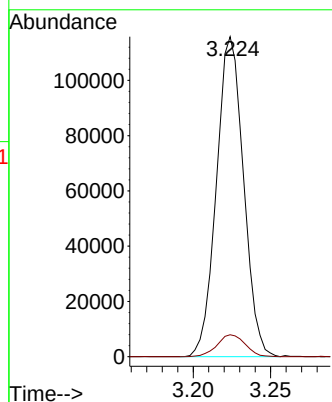
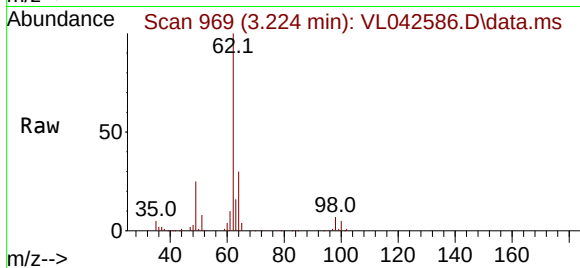




#37
1,2-Dichloroethane
Concen: 9.555 ppbv
RT: 3.224 min Scan# 90
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

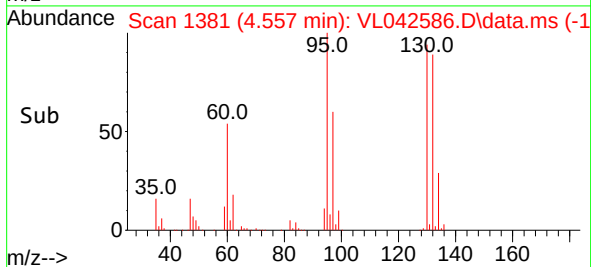
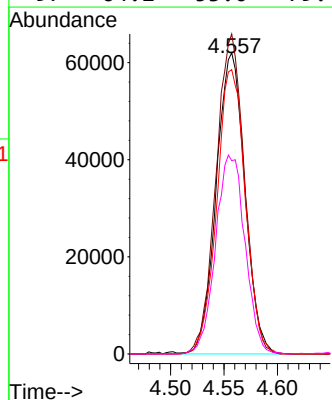
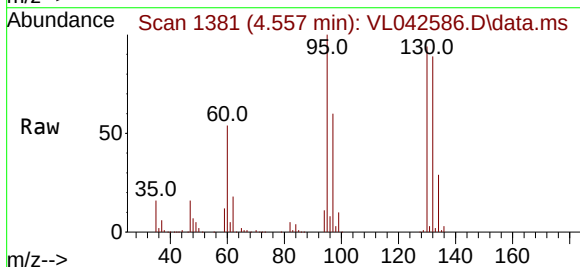
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

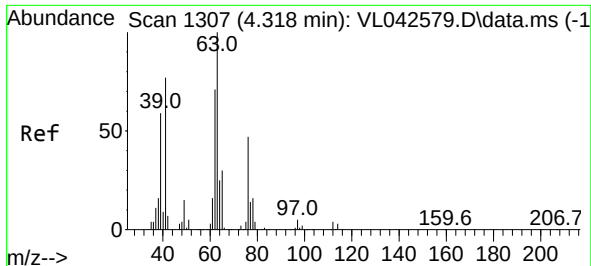
Tgt Ion: 62 Resp: 140785
Ion Ratio Lower Upper
62 100
98 7.1 6.1 9.1



#38
Trichloroethene
Concen: 9.133 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.006 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 130 Resp: 115086
Ion Ratio Lower Upper
130 100
95 106.1 80.6 121.0
132 94.4 71.8 107.6
97 64.2 53.0 79.4





#39

1,2-Dichloropropane

Concen: 8.988 ppbv

RT: 4.324 min Scan# 1

Delta R.T. 0.006 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL052925

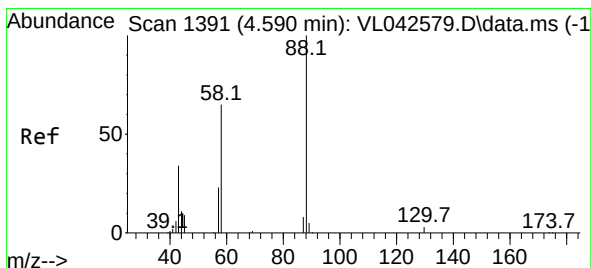
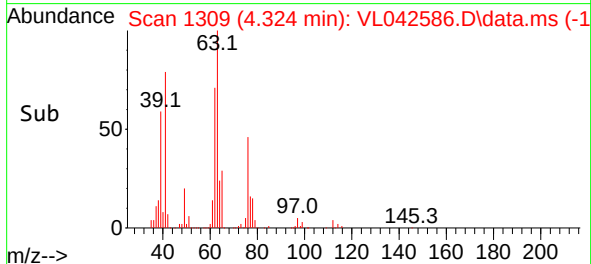
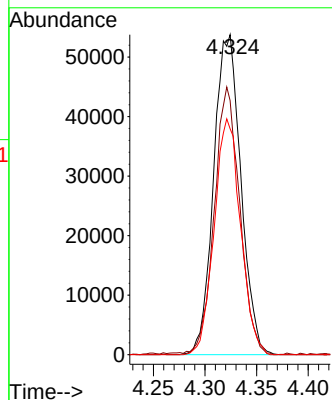
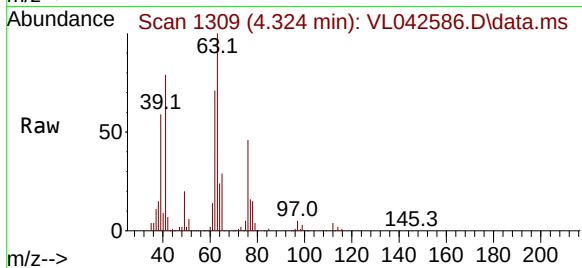
Tgt Ion: 63 Resp: 98542

Ion Ratio Lower Upper

63 100

41 79.3 61.8 92.6

62 70.6 56.6 85.0



#40

1,4-Dioxane

Concen: 9.306 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Tgt Ion: 88 Resp: 45655

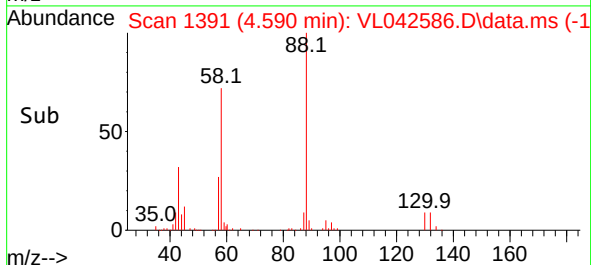
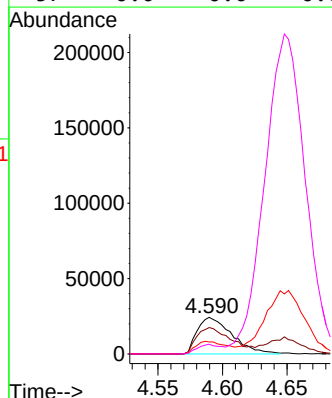
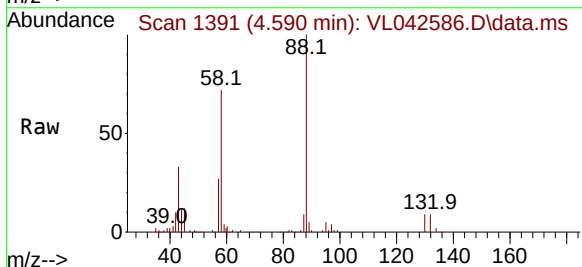
Ion Ratio Lower Upper

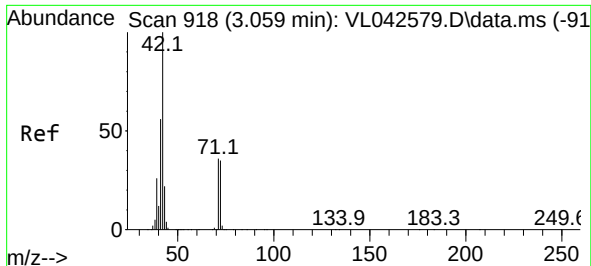
88 100

58 68.9 55.8 83.8

43 30.9 24.8 37.2

57 0.0 0.0 0.0

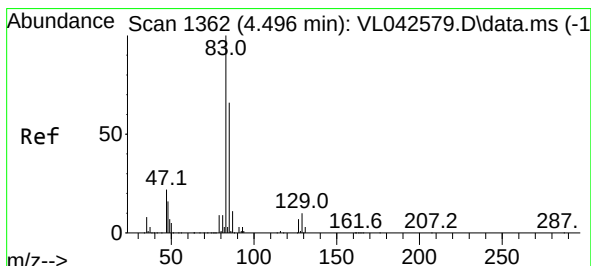
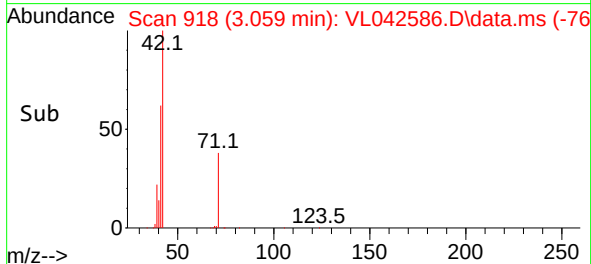
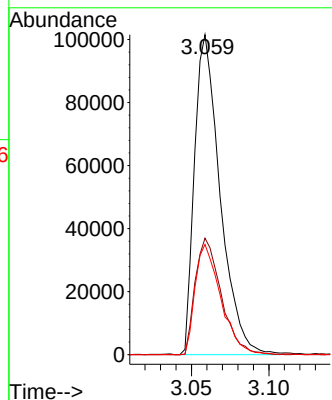
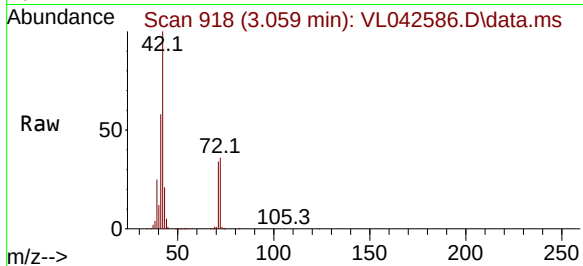




#41
Tetrahydrofuran
Concen: 9.309 ppbv
RT: 3.059 min Scan# 918
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

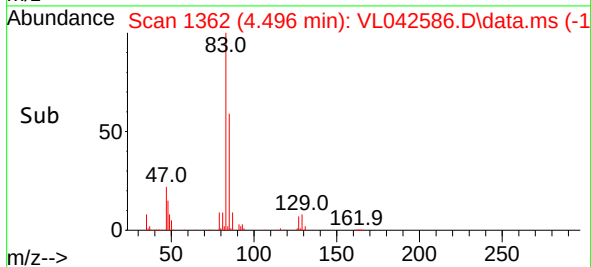
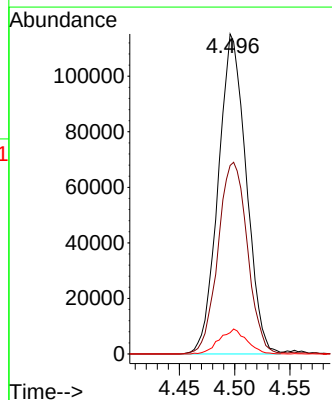
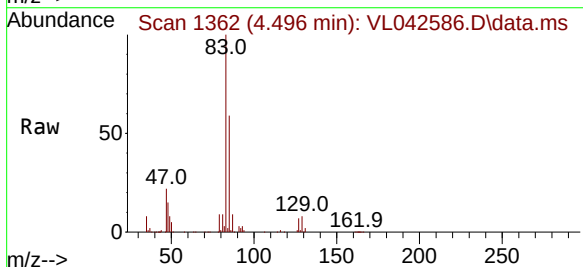
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

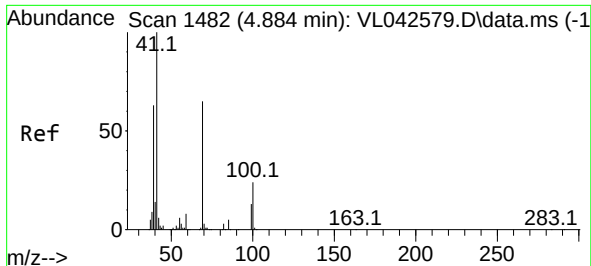
Tgt Ion: 42 Resp: 116984
Ion Ratio Lower Upper
42 100
72 37.0 28.9 43.3
71 34.6 28.5 42.7



#42
Bromodichloromethane
Concen: 9.676 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 83 Resp: 202489
Ion Ratio Lower Upper
83 100
85 58.9 52.7 79.1
127 6.7 5.8 8.6





#43

Methyl Methacrylate

Concen: 9.421 ppbv

RT: 4.891 min Scan# 1482

Delta R.T. 0.006 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_1

ClientSampleId :

ICVVL052925

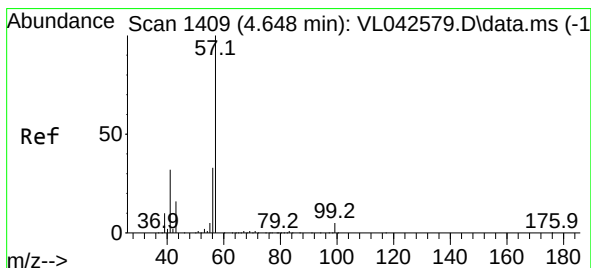
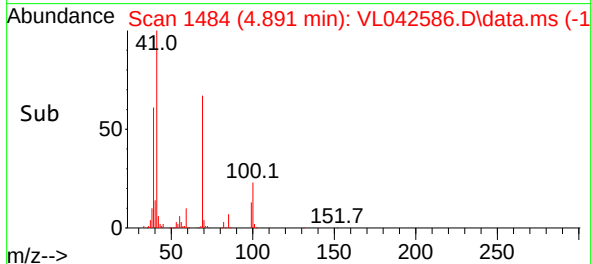
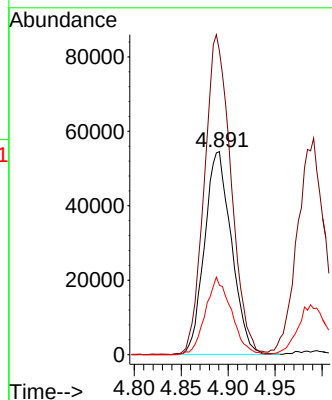
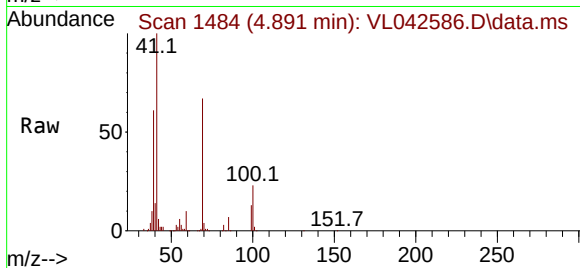
Tgt Ion: 69 Resp: 108397

Ion Ratio Lower Upper

69 100

41 157.1 124.6 187.0

100 36.8 29.9 44.9



#44

2,2,4-Trimethylpentane

Concen: 9.093 ppbv

RT: 4.648 min Scan# 1409

Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

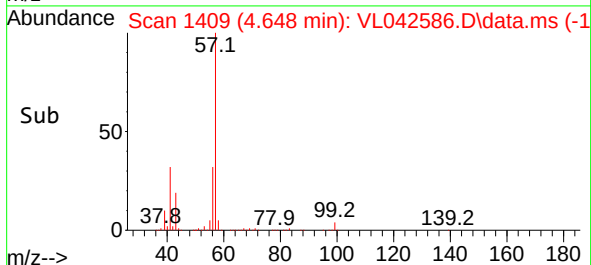
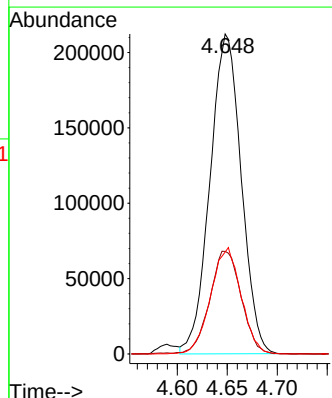
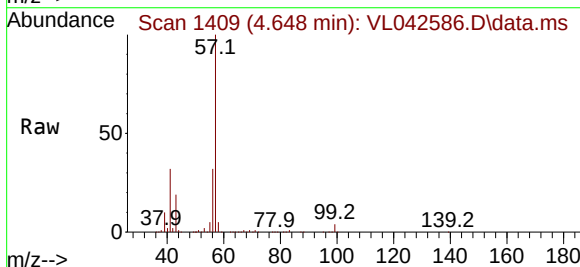
Tgt Ion: 57 Resp: 461095

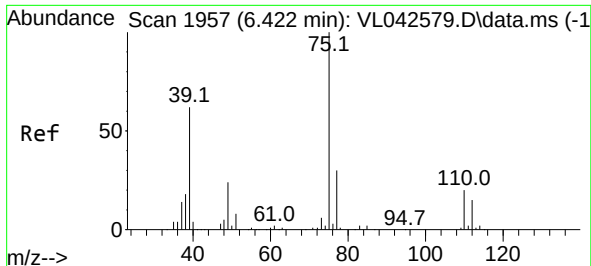
Ion Ratio Lower Upper

57 100

41 32.4 26.1 39.1

56 32.4 25.9 38.9

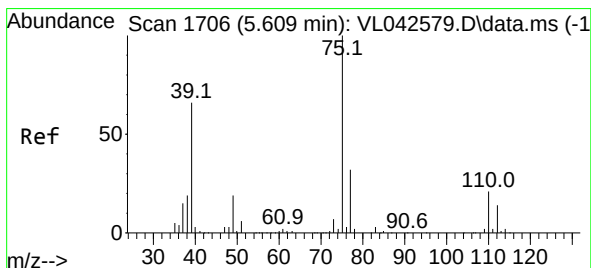
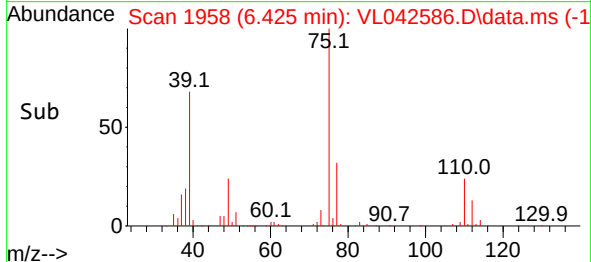
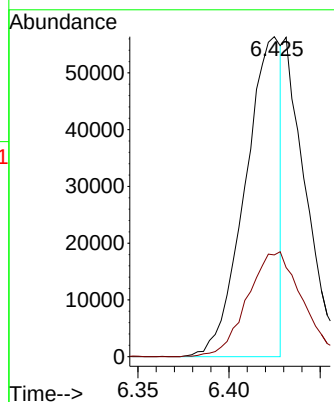
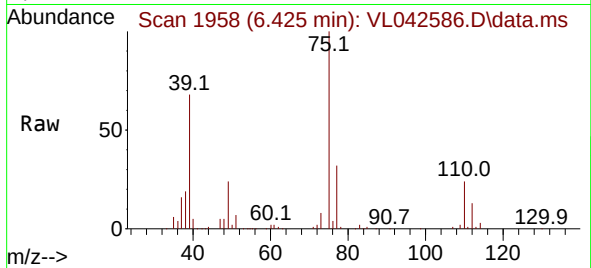




#45
 t-1,3-Dichloropropene
 Concen: 5.866 ppbv
 RT: 6.425 min Scan# 1957
 Delta R.T. 0.003 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

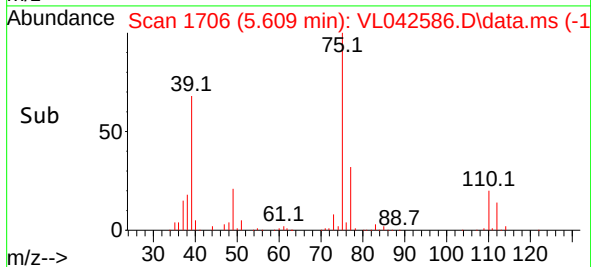
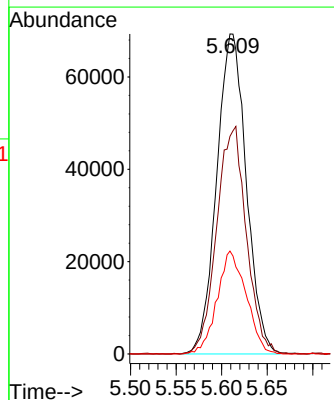
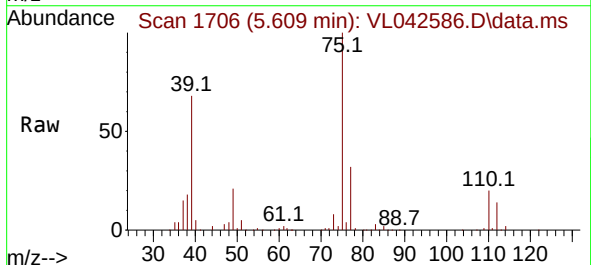
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL052925

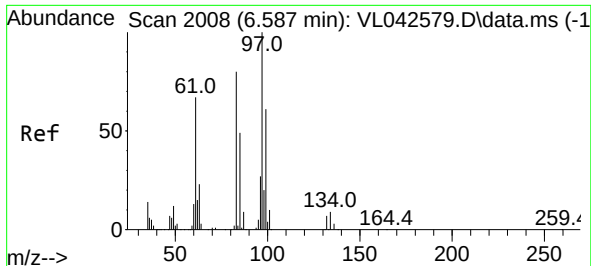
Tgt Ion: 75 Resp: 77241
 Ion Ratio Lower Upper
 75 100
 77 31.8 24.2 36.2



#46
 cis-1,3-Dichloropropene
 Concen: 9.505 ppbv
 RT: 5.609 min Scan# 1706
 Delta R.T. -0.000 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

Tgt Ion: 75 Resp: 156828
 Ion Ratio Lower Upper
 75 100
 39 68.0 52.7 79.1
 77 32.2 25.8 38.8

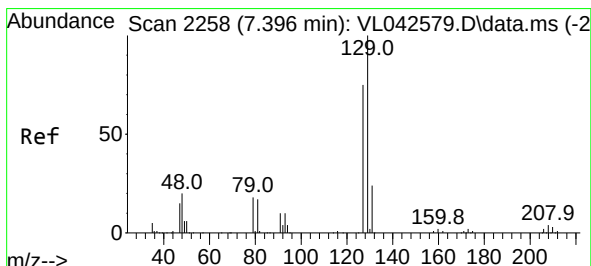
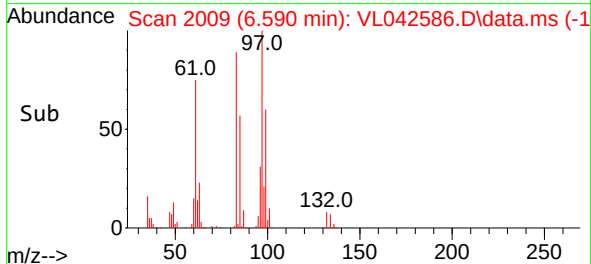
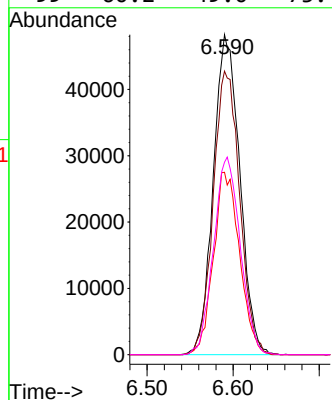
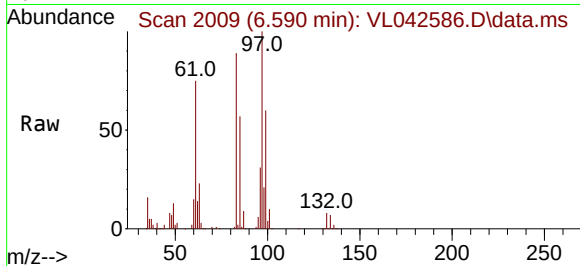




#47
1,1,2-Trichloroethane
Concen: 9.088 ppbv
RT: 6.590 min Scan# 2008
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

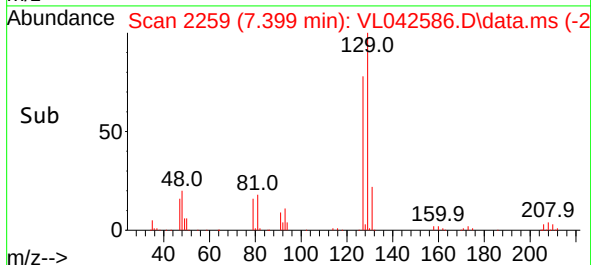
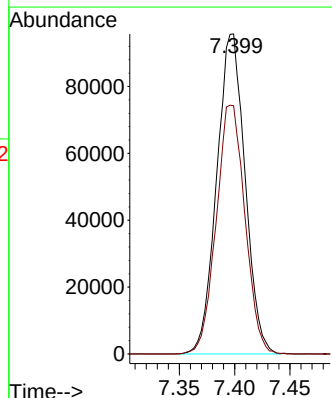
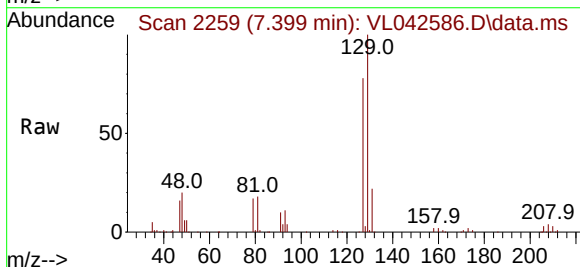
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

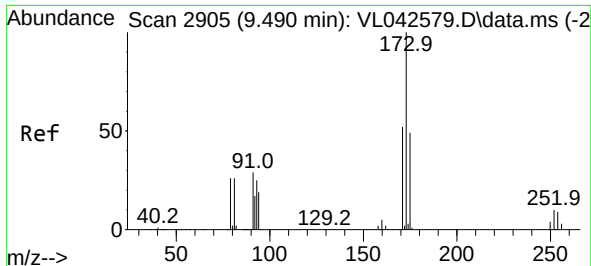
Tgt Ion: 97	Resp: 103138
Ion Ratio	Lower Upper
97 100	
83 88.6	63.9 95.9
85 57.0	39.2 58.8
99 60.2	49.0 73.4



#48
Dibromochloromethane
Concen: 9.391 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion:129	Resp: 170606		
Ion Ratio	Lower	Upper	
129 100			
127 78.8	39.0	116.9	

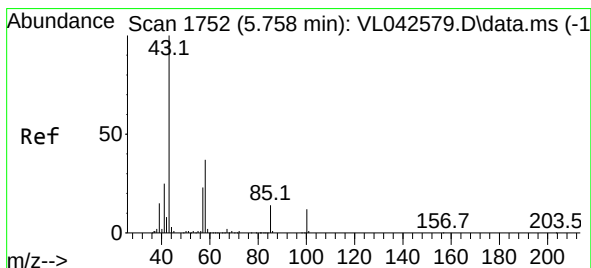
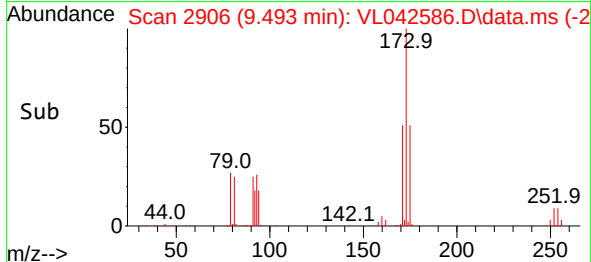
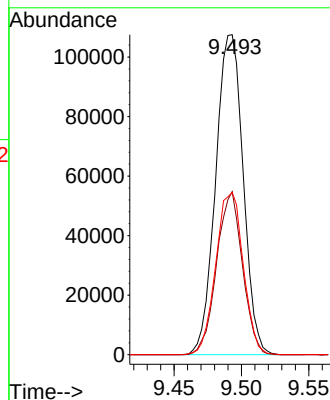
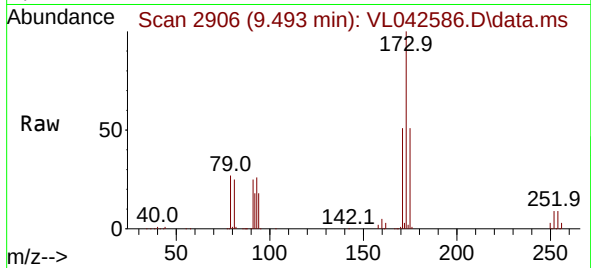




#49
Bromoform
Concen: 9.742 ppbv
RT: 9.493 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

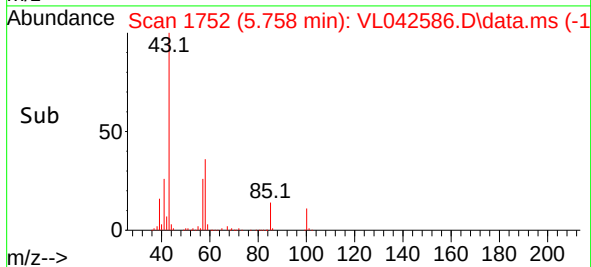
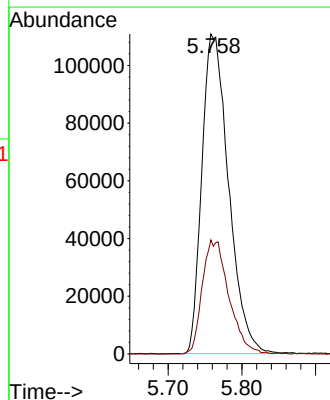
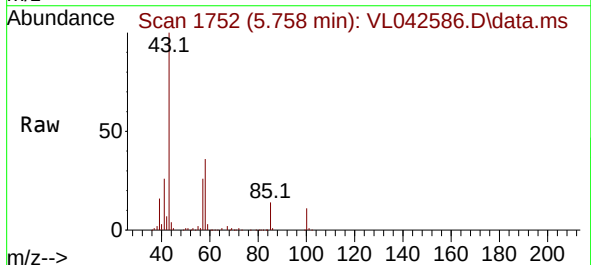
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

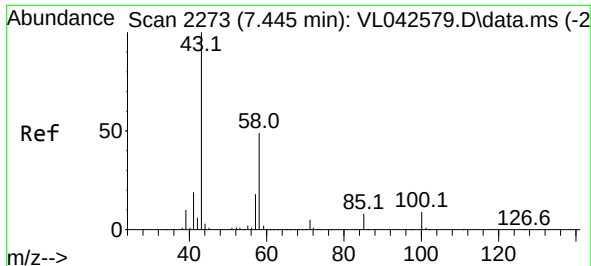
Tgt Ion:173 Resp: 152725
Ion Ratio Lower Upper
173 100
175 47.8 38.7 58.1
171 50.6 41.2 61.8



#50
4-Methyl-2-Pentanone
Concen: 9.369 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 43 Resp: 278990
Ion Ratio Lower Upper
43 100
58 35.5 28.3 42.5

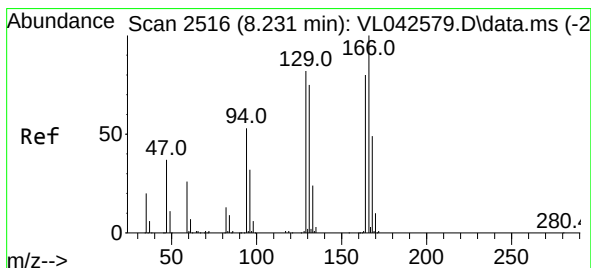
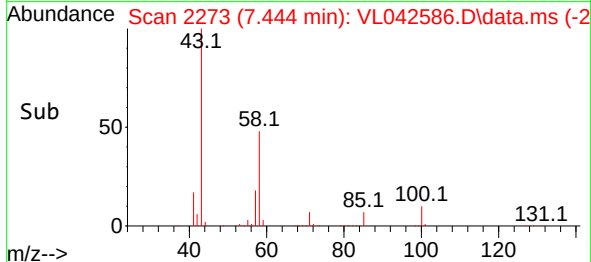
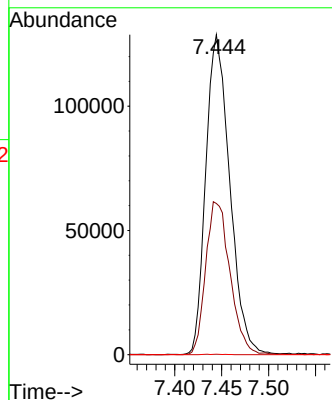
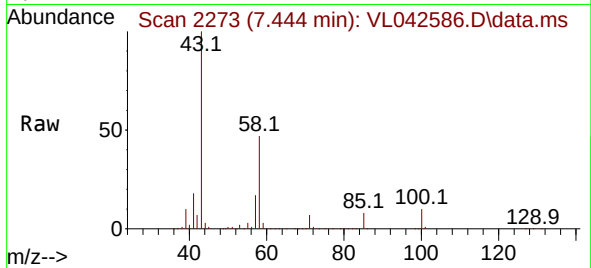




#51
2-Hexanone
Concen: 9.655 ppbv
RT: 7.444 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

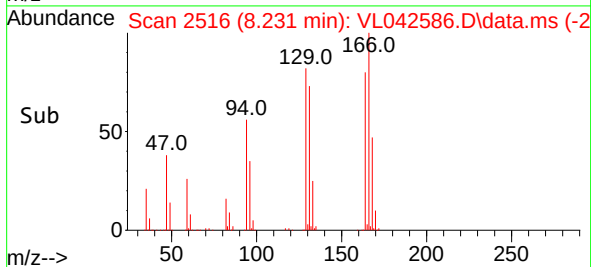
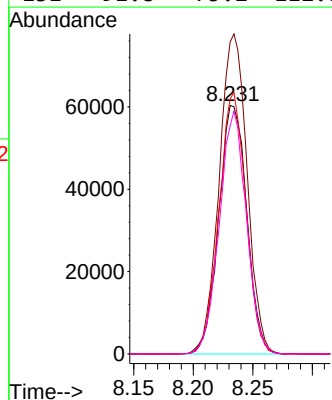
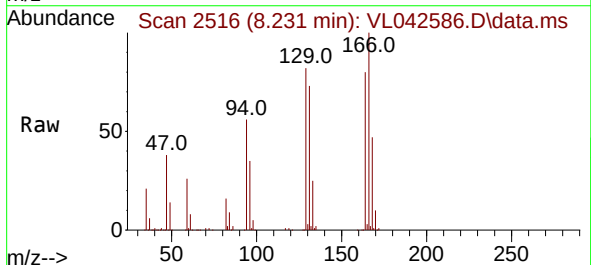
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

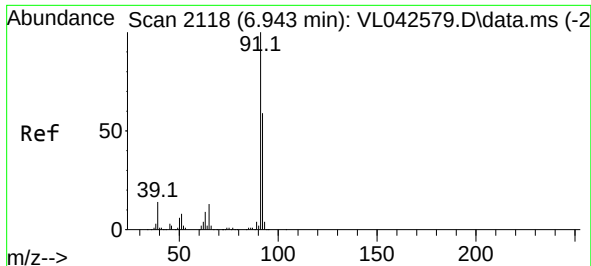
Tgt Ion: 43 Resp: 228036
Ion Ratio Lower Upper
43 100
58 48.6 39.9 59.9
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 8.925 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 164 Resp: 98872
Ion Ratio Lower Upper
164 100
166 125.4 100.0 150.0
129 102.6 82.2 123.4
131 91.8 75.2 112.8

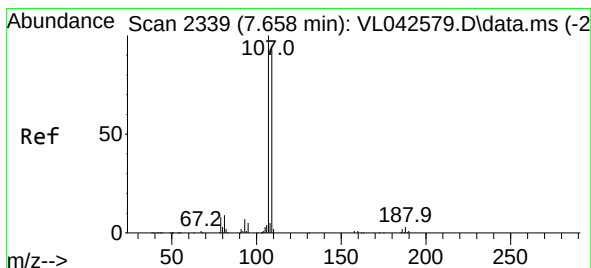
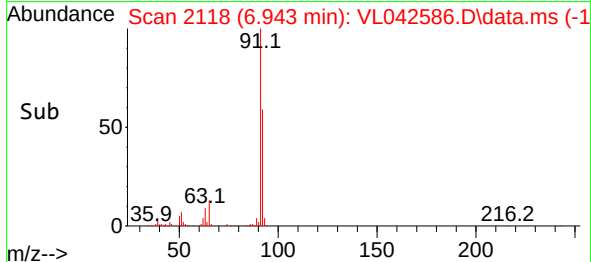
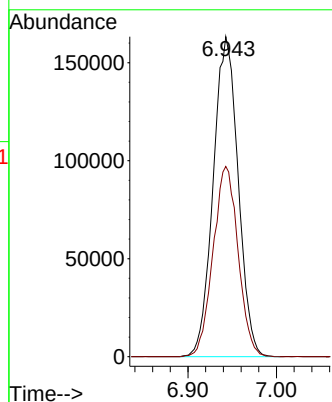
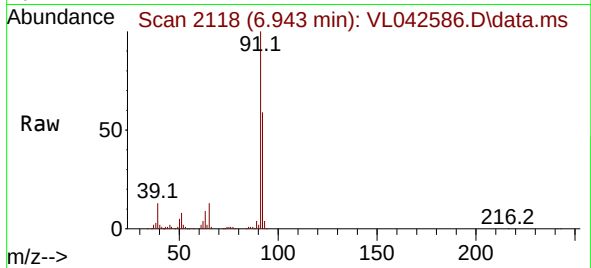




#53
Toluene
Concen: 9.329 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

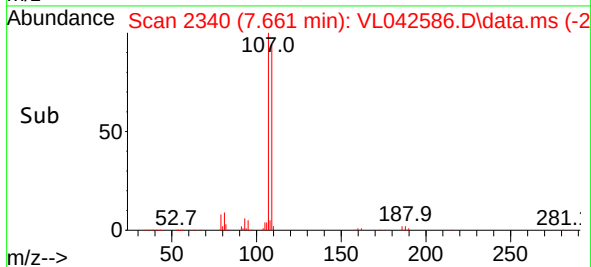
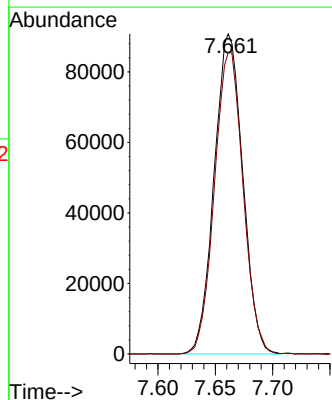
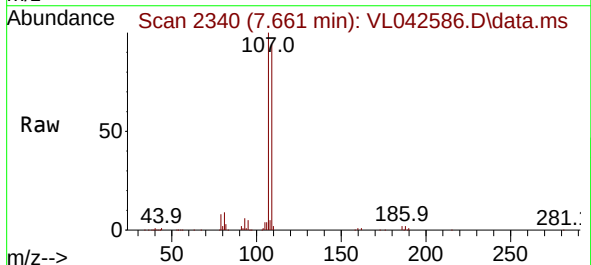
Instrument : MSVOA_1
ClientSampleId : ICVVL052925

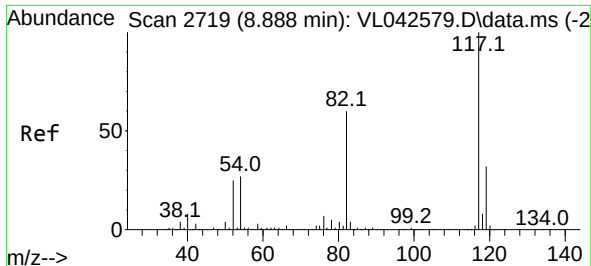
Tgt Ion: 91 Resp: 319640
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4



#54
1,2-Dibromoethane
Concen: 9.364 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 107 Resp: 157298
Ion Ratio Lower Upper
107 100
109 94.1 74.3 111.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL052925

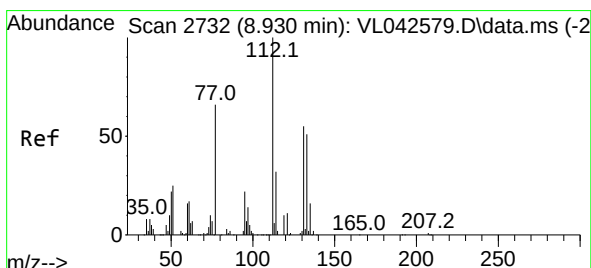
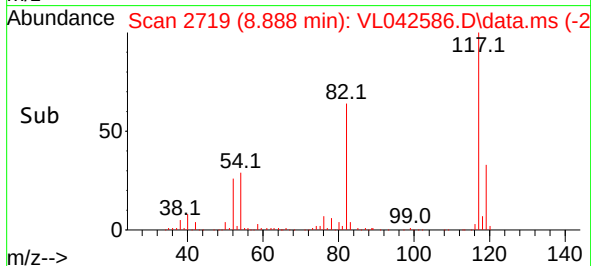
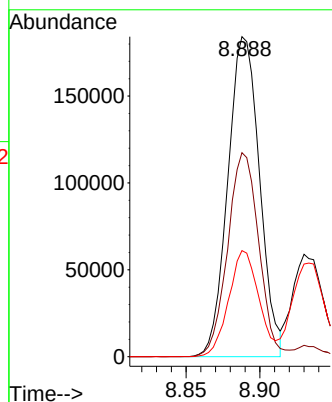
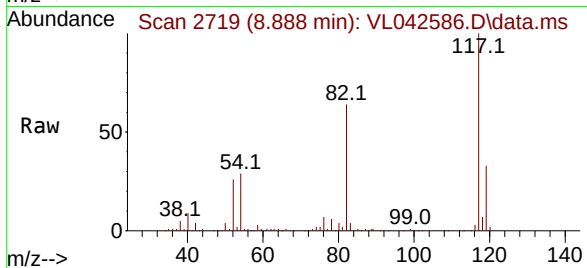
Tgt Ion:117 Resp: 275875

Ion Ratio Lower Upper

117 100

82 65.3 51.2 76.8

119 31.5 26.3 39.5



#56

1,1,1,2-Tetrachloroethane

Concen: 9.199 ppbv

RT: 8.933 min Scan# 2733

Delta R.T. 0.003 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

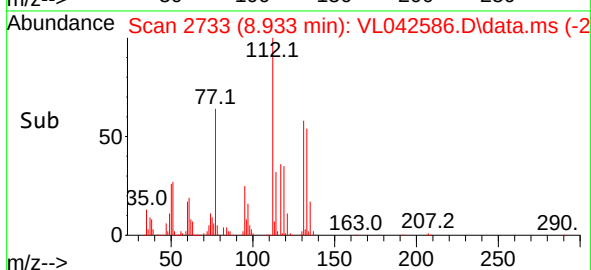
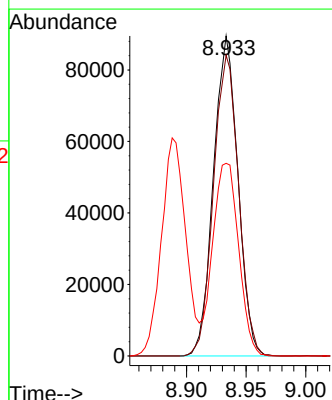
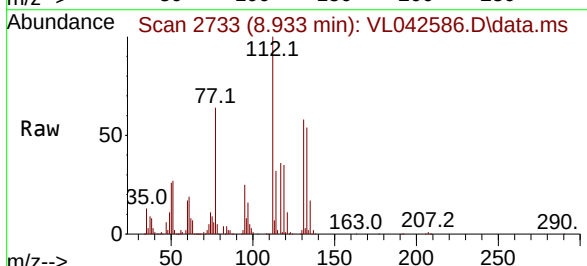
Tgt Ion:131 Resp: 127601

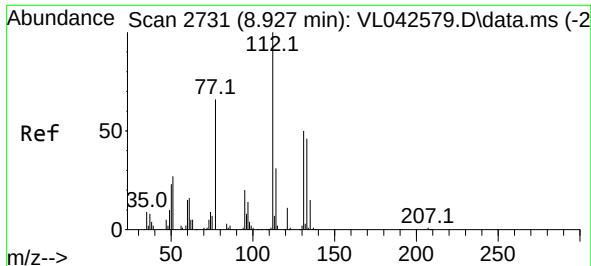
Ion Ratio Lower Upper

131 100

133 96.6 75.0 112.6

119 65.7 50.8 76.2

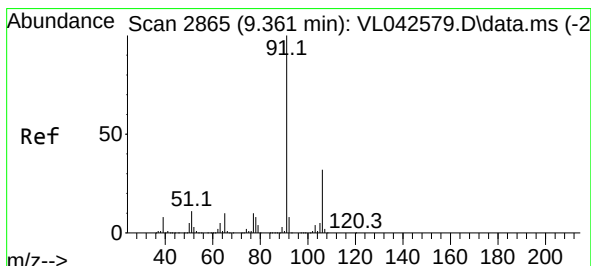
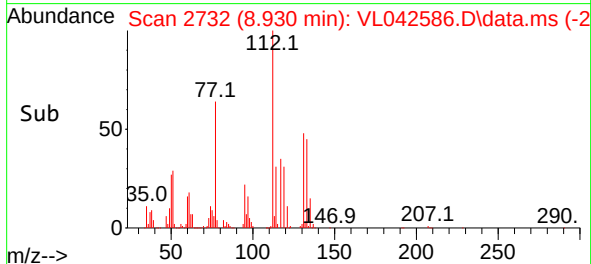
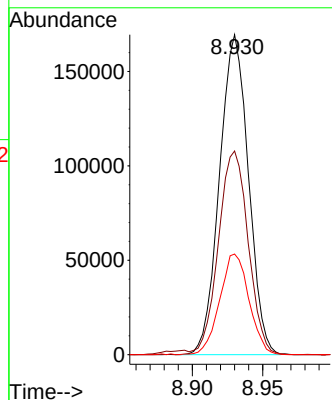
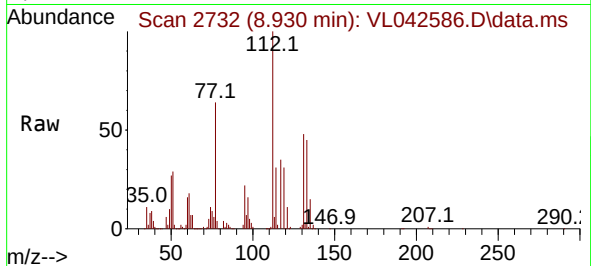




#57
Chlorobenzene
Concen: 9.054 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

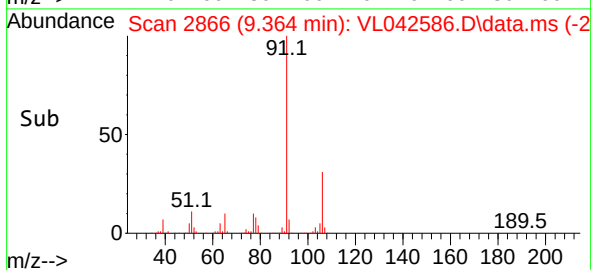
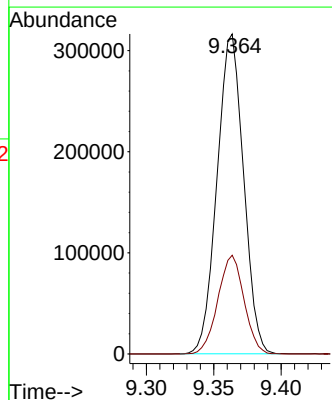
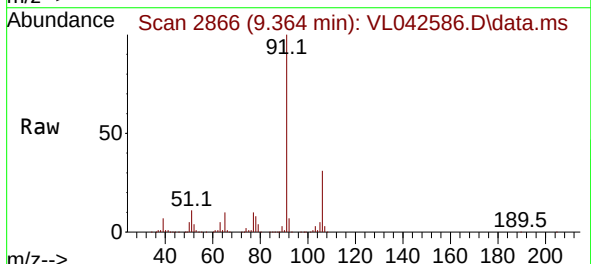
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

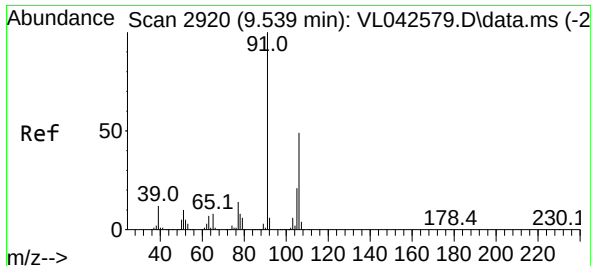
Tgt Ion:112 Resp: 242533
Ion Ratio Lower Upper
112 100
77 63.4 53.5 80.3
114 31.4 27.8 34.0



#58
Ethyl Benzene
Concen: 9.237 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 91 Resp: 432250
Ion Ratio Lower Upper
91 100
106 30.9 25.9 38.9

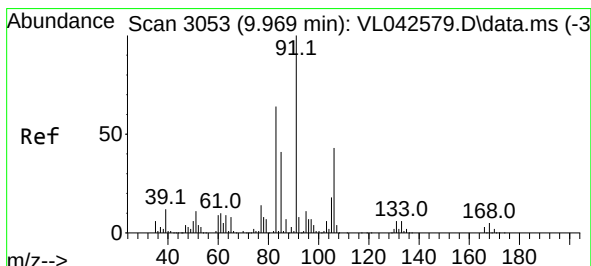
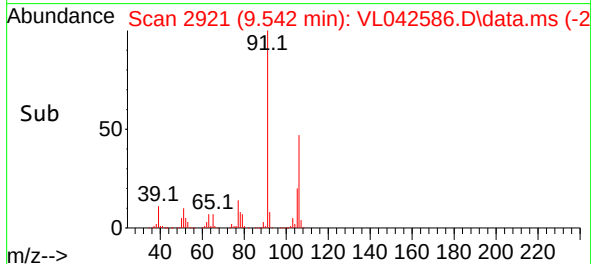
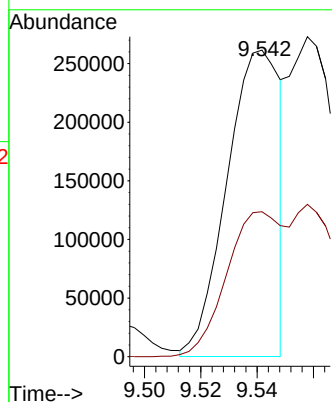
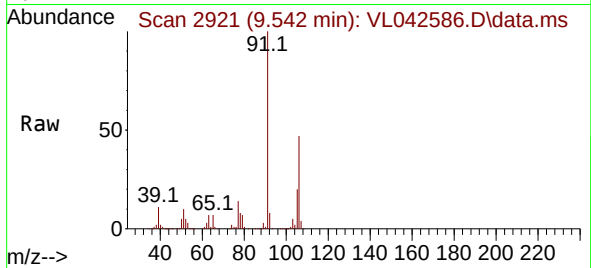




#59
m/p-Xylene
Concen: 9.281 ppbv
RT: 9.542 min Scan# 2920
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

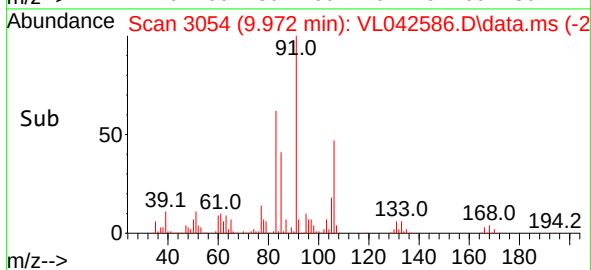
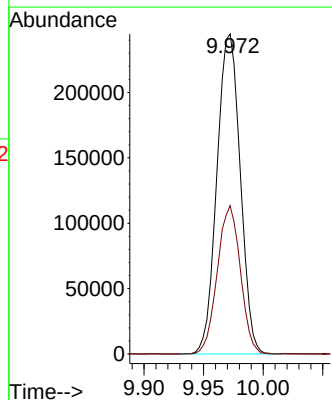
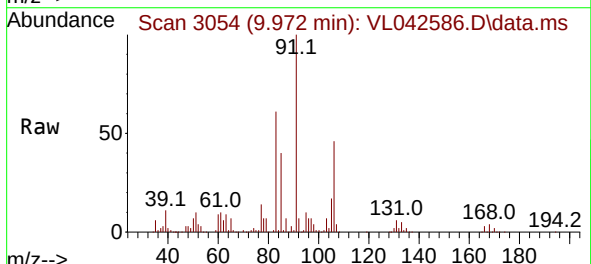
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

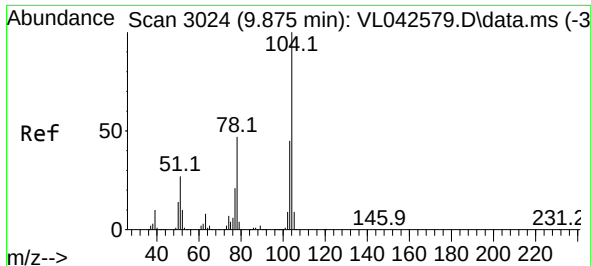
Tgt Ion: 91 Resp: 341761
Ion Ratio Lower Upper
91 100
106 0.0 38.8 58.2#



#60
o-Xylene
Concen: 9.069 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 91 Resp: 333107
Ion Ratio Lower Upper
91 100
106 45.7 22.9 68.5

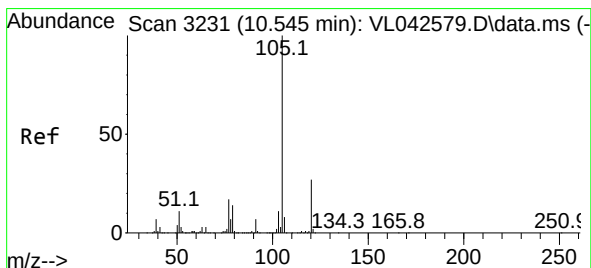
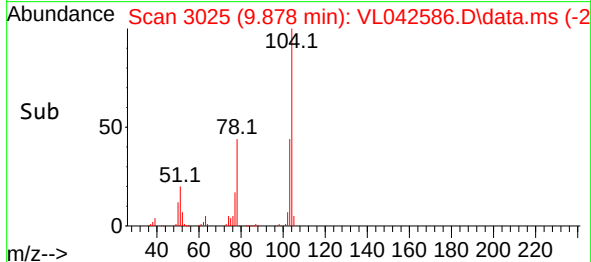
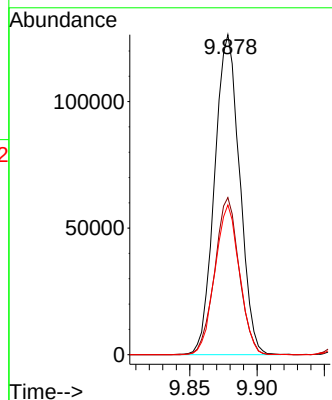
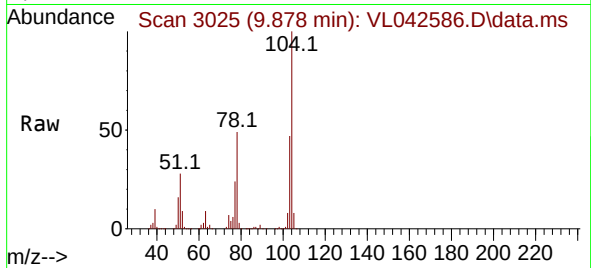




#61
Styrene
Concen: 9.396 ppbv
RT: 9.878 min Scan# 3024
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

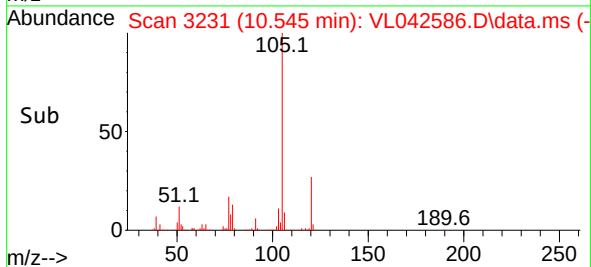
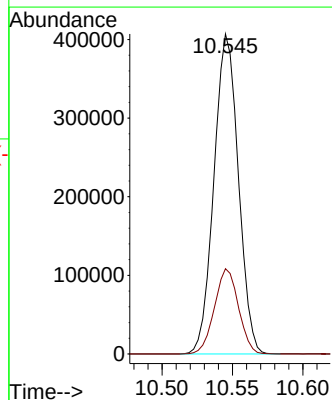
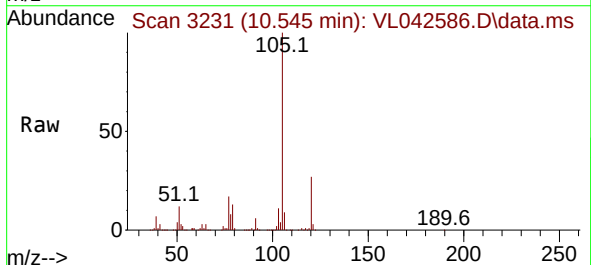
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

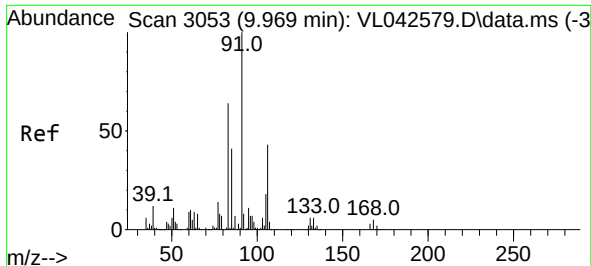
Tgt Ion:104 Resp: 163167
Ion Ratio Lower Upper
104 100
78 48.2 38.2 57.4
103 46.1 36.7 55.1



#62
Isopropylbenzene
Concen: 9.051 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion:105 Resp: 491107
Ion Ratio Lower Upper
105 100
120 26.2 20.9 31.3





#63

1,1,2,2-Tetrachloroethane

Concen: 8.749 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL052925

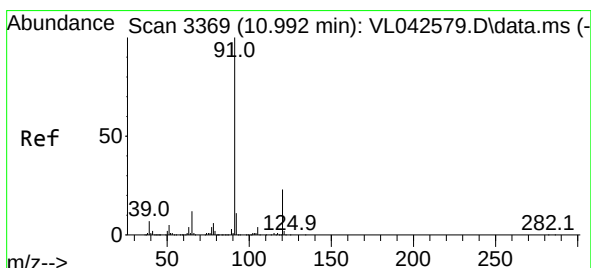
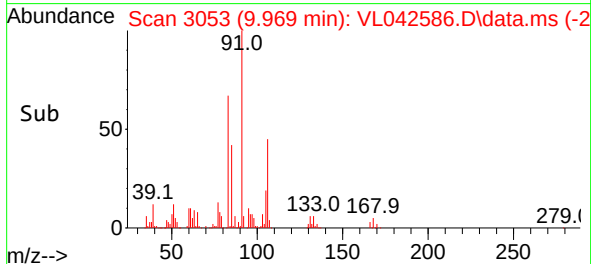
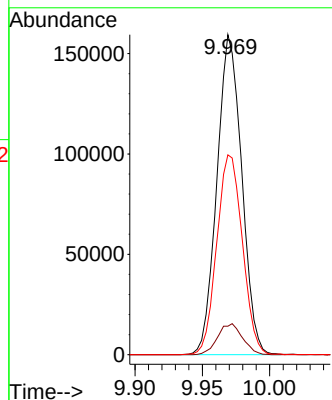
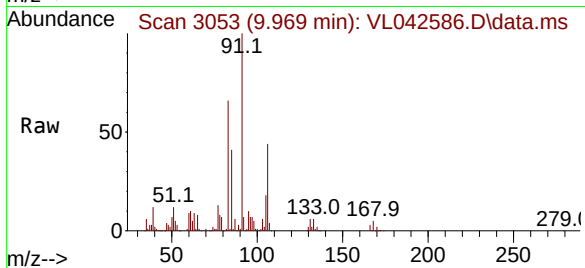
Tgt Ion: 83 Resp: 204322

Ion Ratio Lower Upper

83 100

131 9.7 4.8 14.4

85 64.5 32.5 97.4



#64

n-propylbenzene

Concen: 9.054 ppbv

RT: 10.995 min Scan# 3370

Delta R.T. 0.003 min

Lab File: VL042586.D

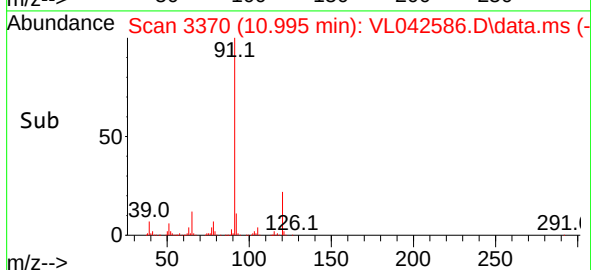
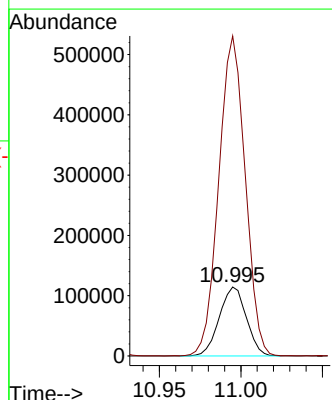
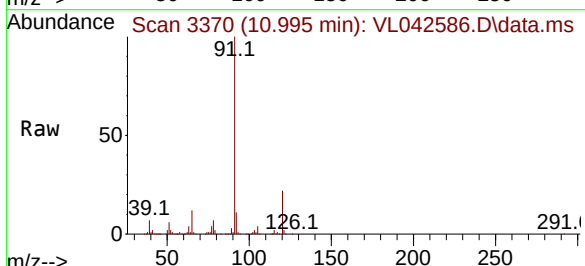
Acq: 29 May 2025 14:56

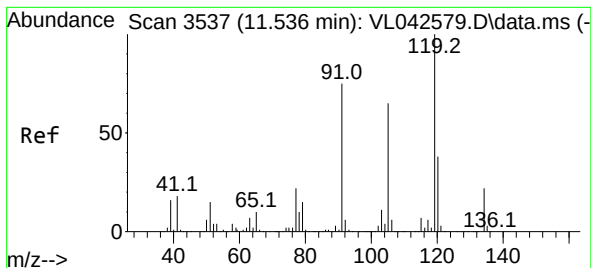
Tgt Ion: 120 Resp: 131695

Ion Ratio Lower Upper

120 100

91 453.7 363.0 544.6





#65

tert-Butylbenzene

Concen: 8.758 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL052925

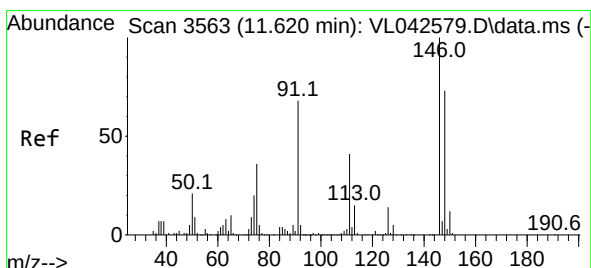
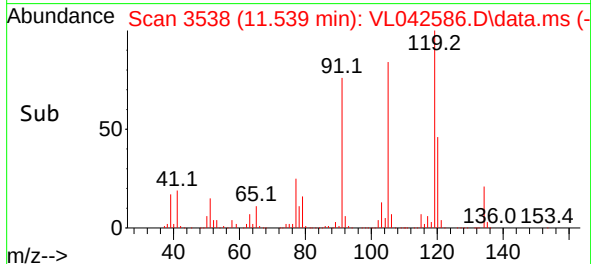
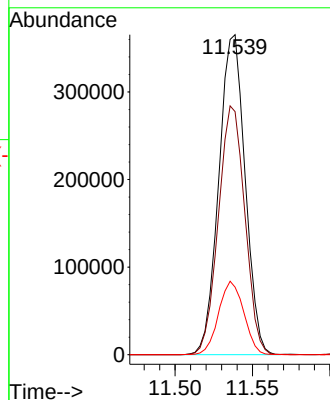
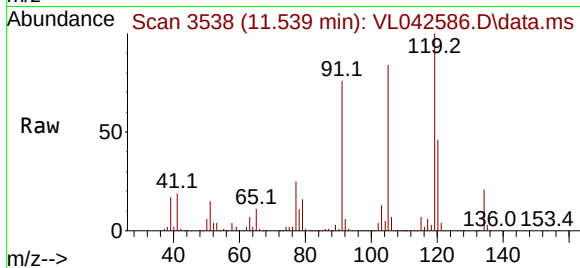
Tgt Ion:119 Resp: 431251

Ion Ratio Lower Upper

119 100

91 78.2 61.1 91.7

134 22.0 17.4 26.2



#66

Benzyl Chloride

Concen: 9.435 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

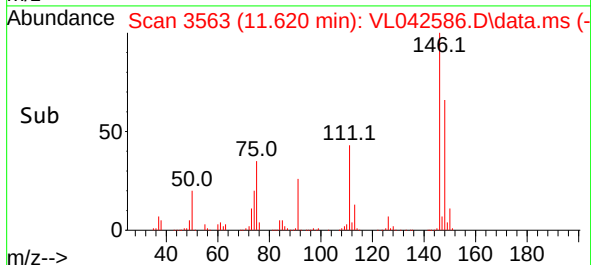
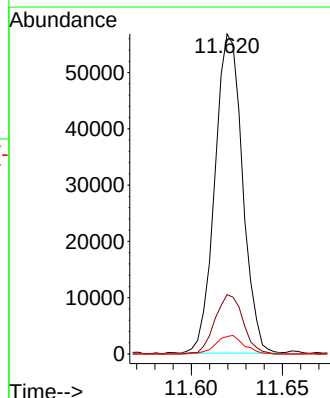
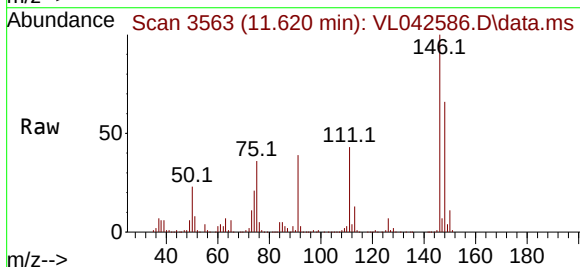
Tgt Ion: 91 Resp: 59801

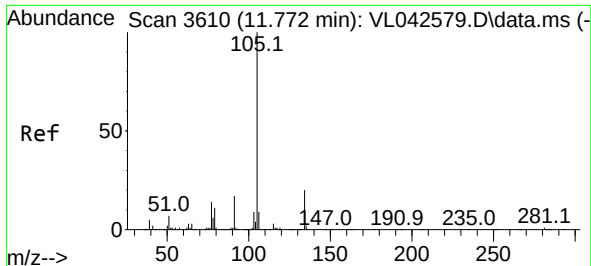
Ion Ratio Lower Upper

91 100

126 18.9 15.1 22.7

128 5.8 5.0 7.6





#67

sec-Butylbenzene

Concen: 8.781 ppbv

RT: 11.772 min Scan# 3610

Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_1

ClientSampleId :

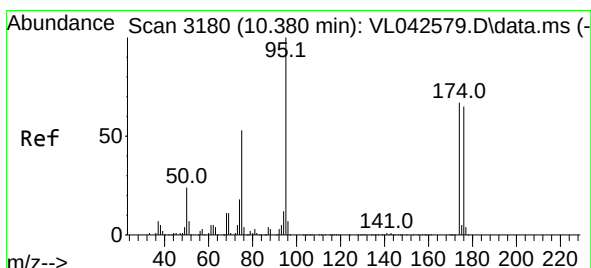
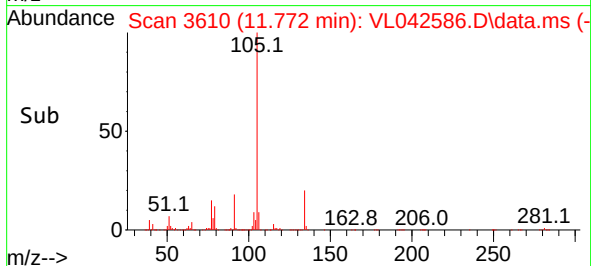
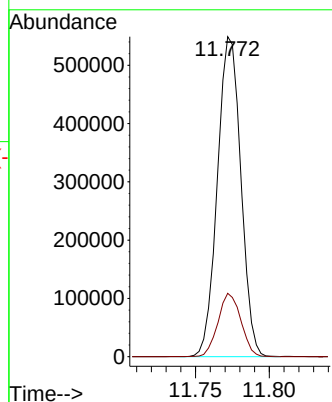
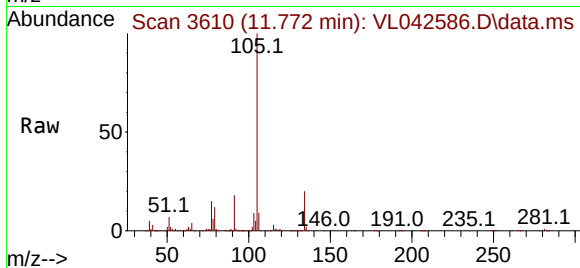
ICVVL052925

Tgt Ion:105 Resp: 607905

Ion Ratio Lower Upper

105 100

134 19.4 15.8 23.6



#68

1-Bromo-4-Fluorobenzene

Concen: 9.852 ppbv

RT: 10.383 min Scan# 3181

Delta R.T. 0.003 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

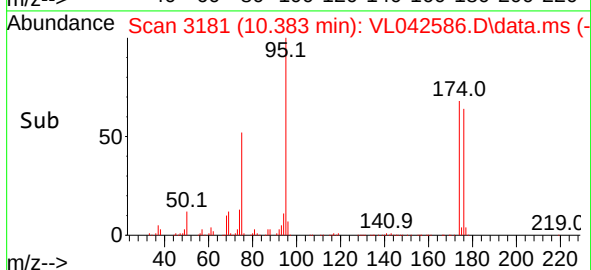
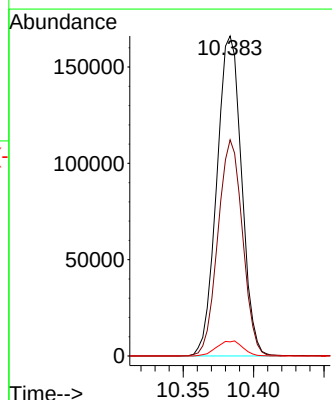
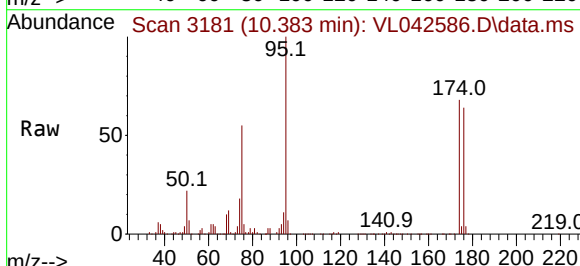
Tgt Ion: 95 Resp: 203743

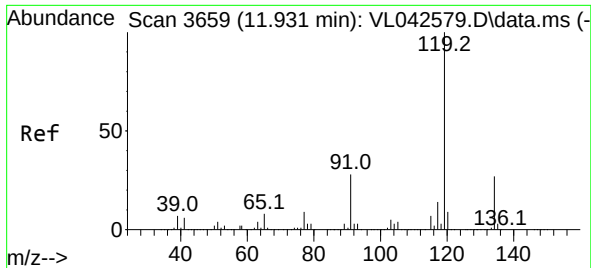
Ion Ratio Lower Upper

95 100

174 67.1 53.1 79.7

175 4.9 4.2 6.2

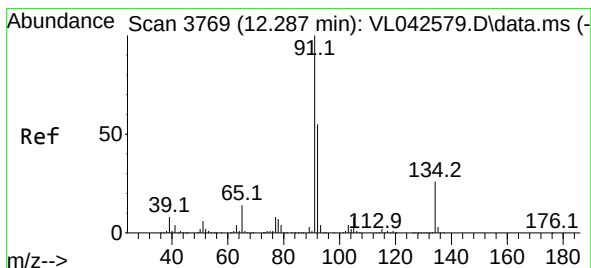
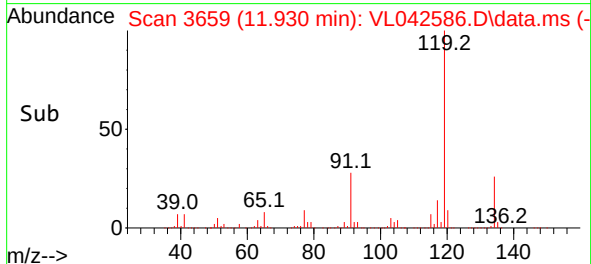
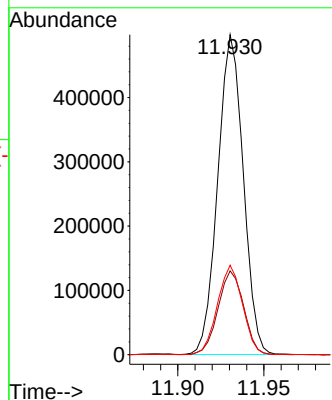
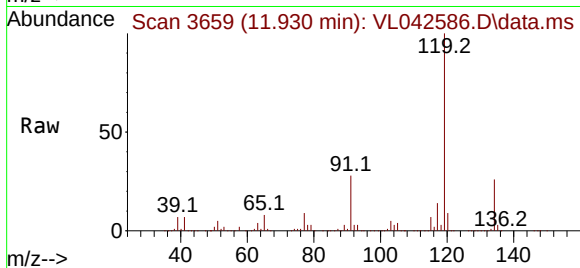




#69
 p-Isopropyltoluene
 Concen: 8.844 ppbv
 RT: 11.930 min Scan# 3659
 Delta R.T. -0.000 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

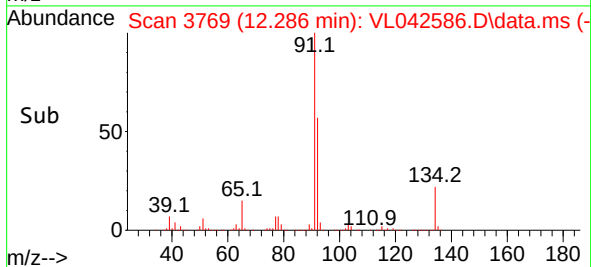
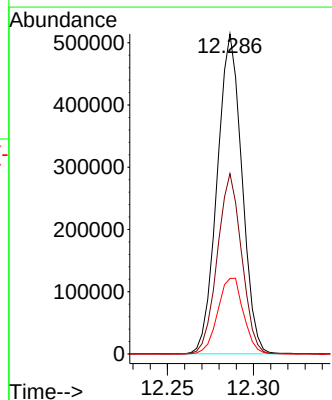
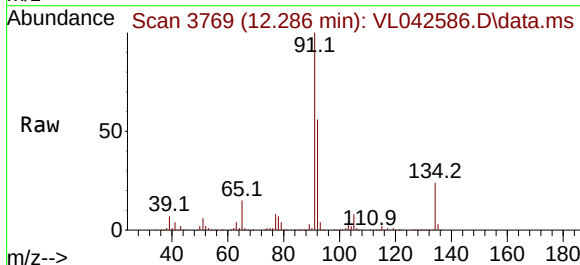
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL052925

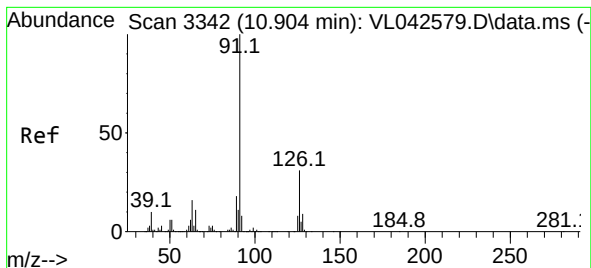
Tgt Ion:119 Resp: 512739
 Ion Ratio Lower Upper
 119 100
 134 26.5 21.1 31.7
 91 27.7 21.9 32.9



#70
 n-Butylbenzene
 Concen: 8.998 ppbv
 RT: 12.286 min Scan# 3769
 Delta R.T. -0.000 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

Tgt Ion: 91 Resp: 514931
 Ion Ratio Lower Upper
 91 100
 92 55.4 44.4 66.6
 134 24.6 20.1 30.1

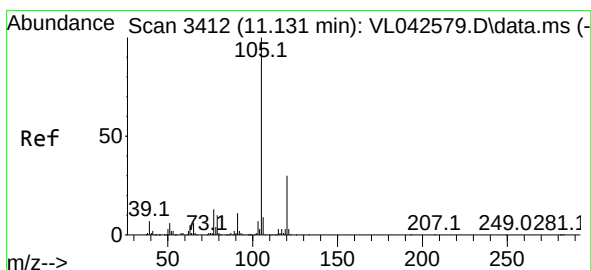
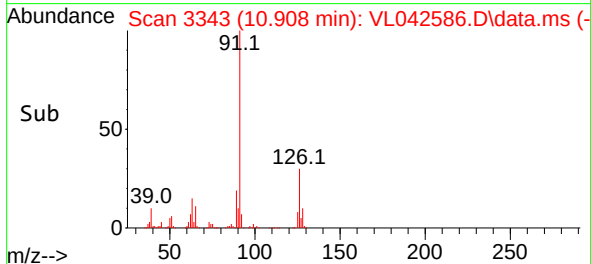
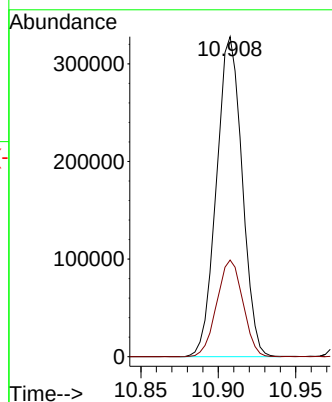
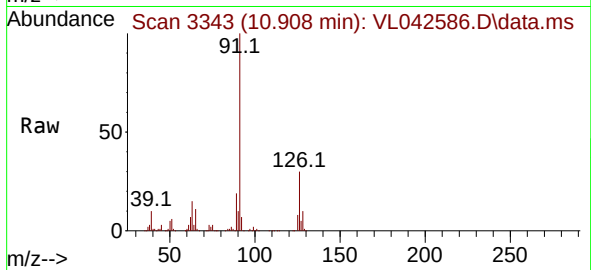




#71
2-Chlorotoluene
Concen: 9.119 ppbv
RT: 10.908 min Scan# 311
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

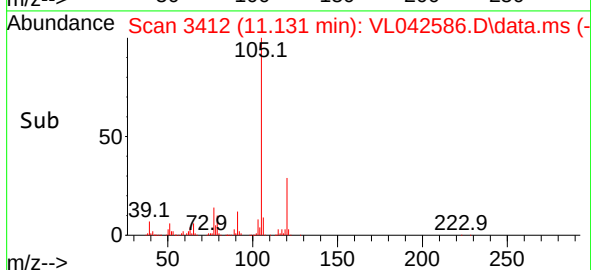
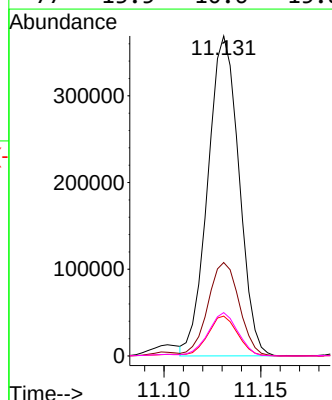
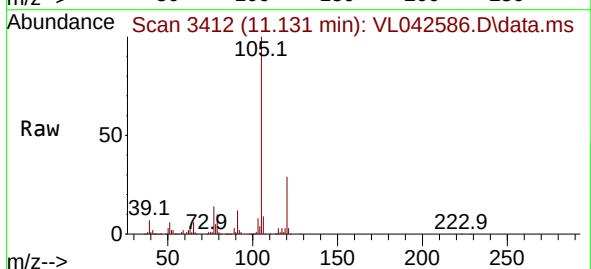
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

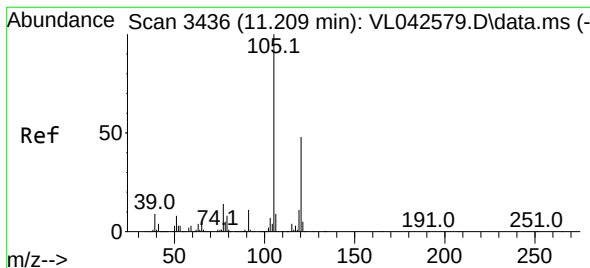
Tgt Ion: 91 Resp: 377413
Ion Ratio Lower Upper
91 100
126 30.7 12.6 50.4



#72
4-Ethyltoluene
Concen: 9.012 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion: 105 Resp: 412686
Ion Ratio Lower Upper
105 100
120 30.4 24.6 36.8
91 12.4 9.6 14.4
77 13.5 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 9.131 ppbv

RT: 11.209 min Scan# 3436

Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

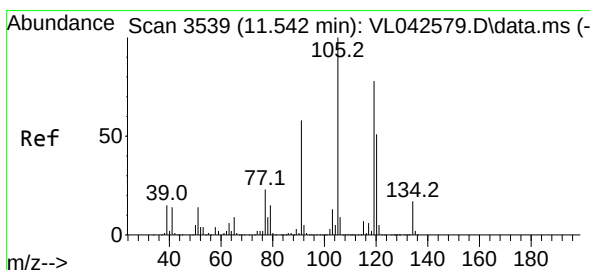
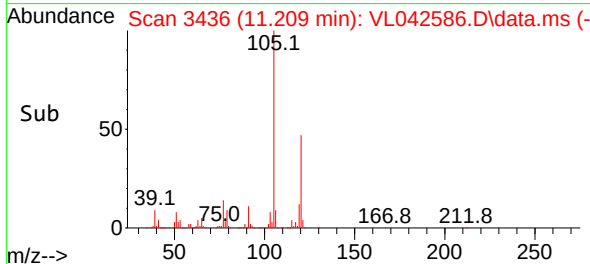
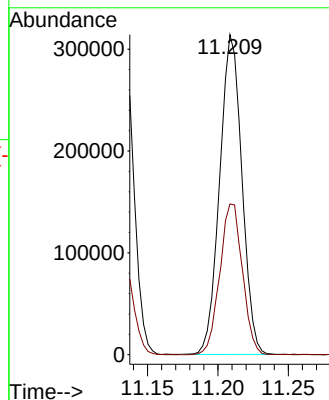
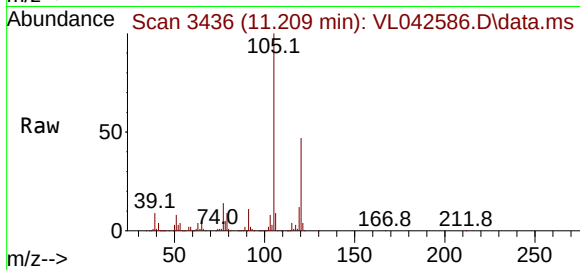
ICVVL052925

Tgt Ion:105 Resp: 346043

Ion Ratio Lower Upper

105 100

120 47.1 38.8 58.2



#74

1,2,4-Trimethylbenzene

Concen: 8.842 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Tgt Ion:105 Resp: 371879

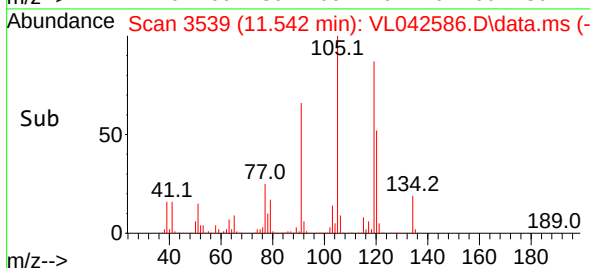
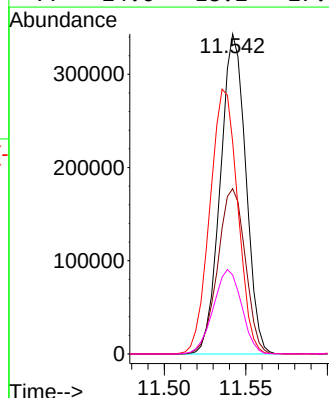
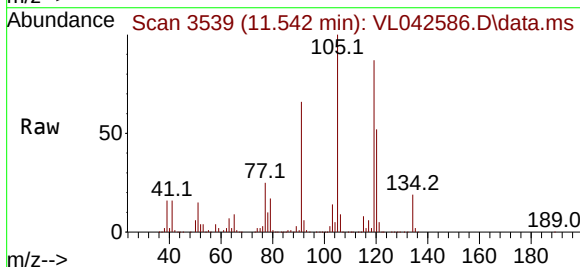
Ion Ratio Lower Upper

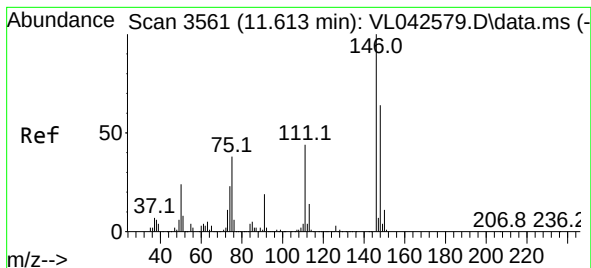
105 100

120 51.6 40.8 61.2

91 66.2 46.8 70.2

77 24.6 18.2 27.2





#75

1,3-Dichlorobenzene

Concen: 8.886 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. -0.000 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL052925

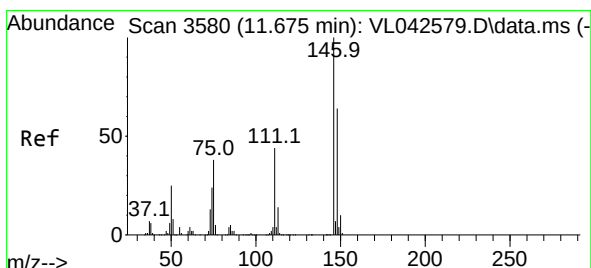
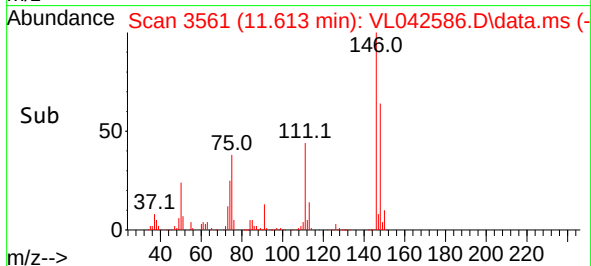
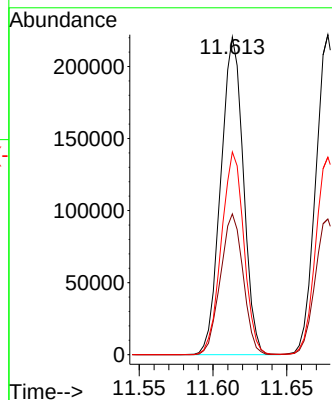
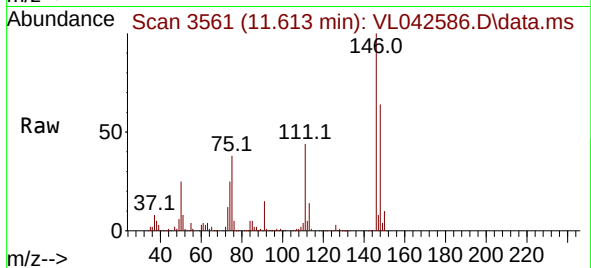
Tgt Ion:146 Resp: 234703

Ion Ratio Lower Upper

146 100

111 44.5 22.4 67.3

148 63.8 32.0 96.2



#76

1,4-Dichlorobenzene

Concen: 9.034 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.003 min

Lab File: VL042586.D

Acq: 29 May 2025 14:56

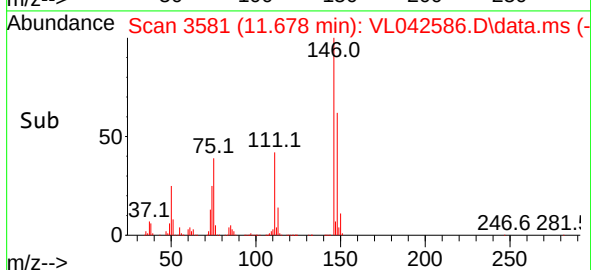
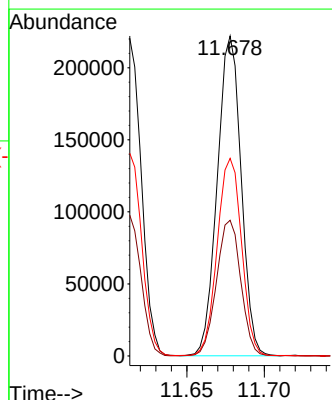
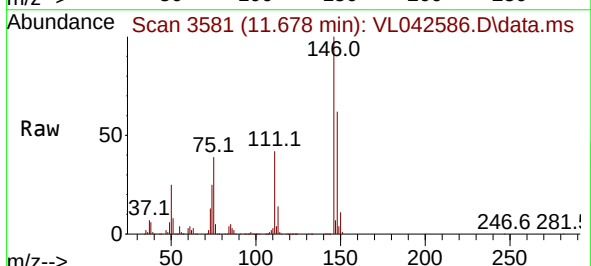
Tgt Ion:146 Resp: 237978

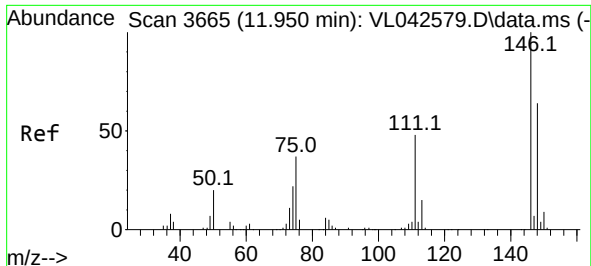
Ion Ratio Lower Upper

146 100

111 43.2 21.6 64.8

148 63.3 32.1 96.5

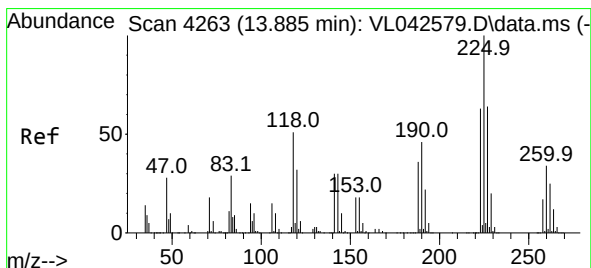
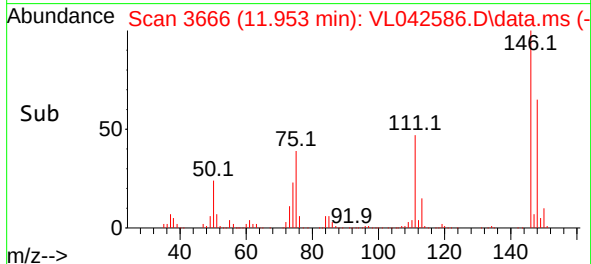
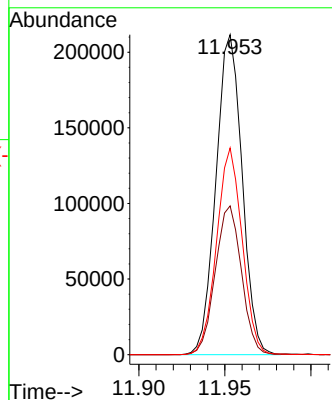
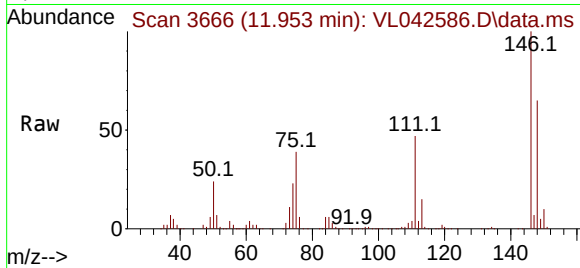




#77
1,2-Dichlorobenzene
Concen: 8.754 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.003 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

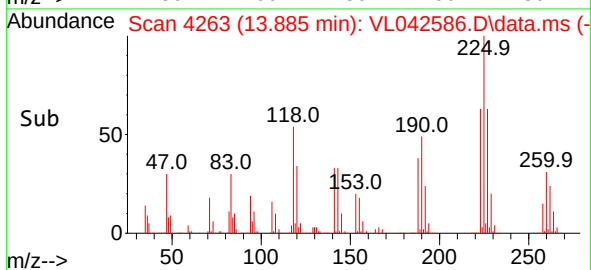
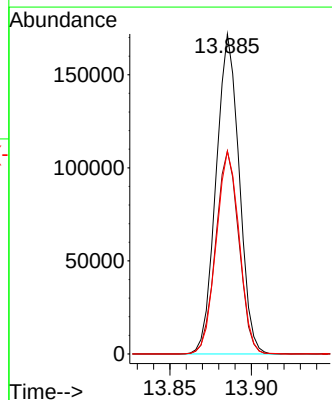
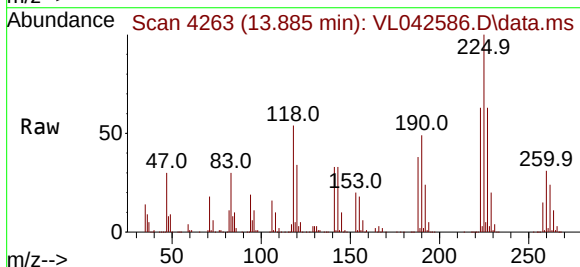
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

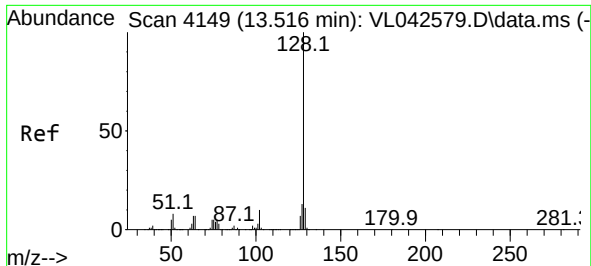
Tgt Ion:146 Resp: 224400
Ion Ratio Lower Upper
146 100
111 46.6 23.1 69.3
148 63.1 32.1 96.3



#78
Hexachloro-1,3-Butadiene
Concen: 7.977 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion:225 Resp: 169185
Ion Ratio Lower Upper
225 100
223 63.6 50.2 75.4
227 63.5 51.1 76.7

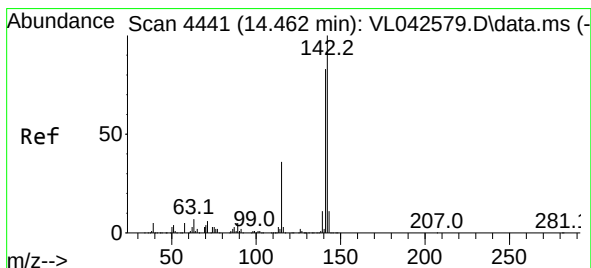
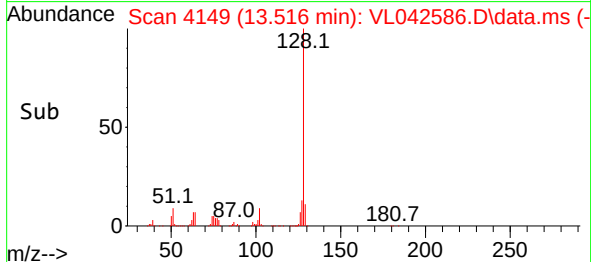
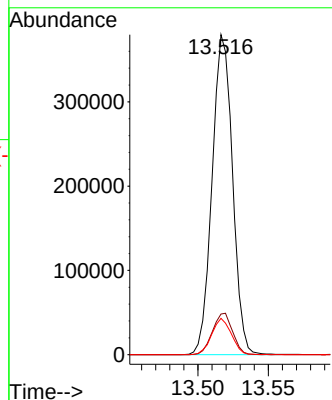
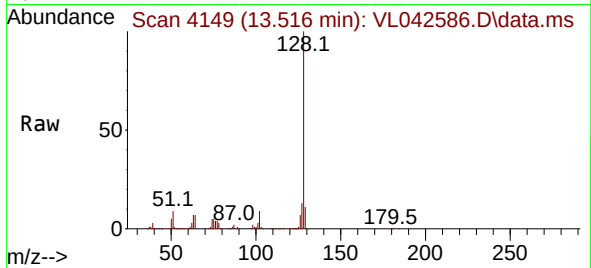




#79
Naphthalene
Concen: 9.666 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

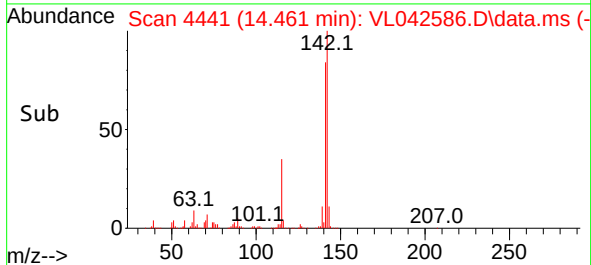
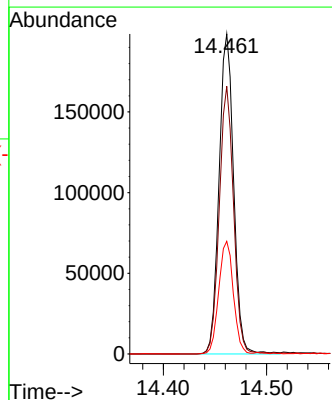
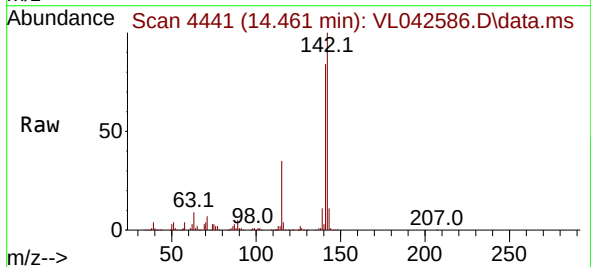
Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

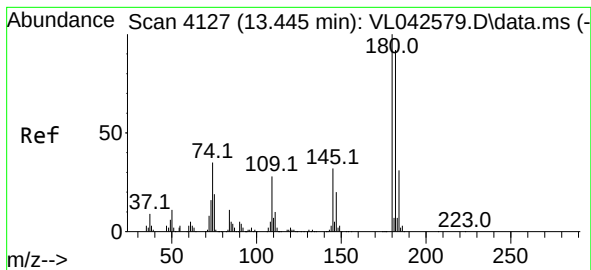
Tgt Ion:128 Resp: 383192
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.4
129 11.3 8.8 13.2



#80
Naphthalene,2-methyl-
Concen: 10.853 ppbv
RT: 14.461 min Scan# 4441
Delta R.T. -0.000 min
Lab File: VL042586.D
Acq: 29 May 2025 14:56

Tgt Ion:142 Resp: 194375
Ion Ratio Lower Upper
142 100
141 83.1 66.2 99.4
115 36.0 28.3 42.5

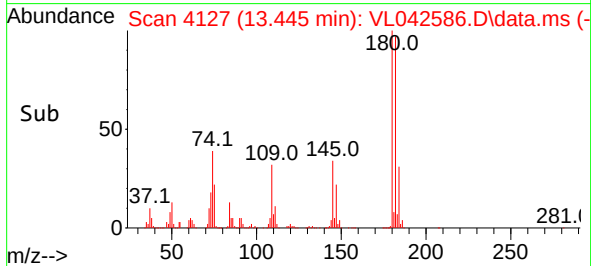
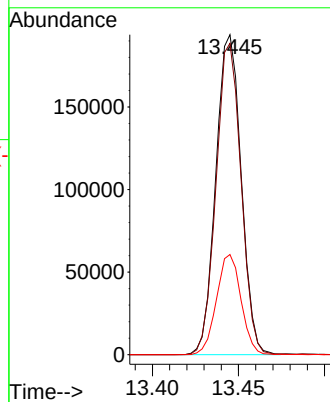
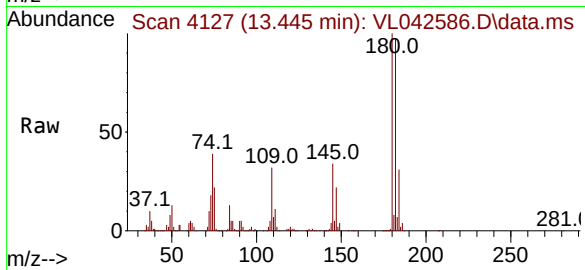




#81
 1,2,4-Trichlorobenzene
 Concen: 8.978 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042586.D
 Acq: 29 May 2025 14:56

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Tgt Ion:180 Resp: 198696
 Ion Ratio Lower Upper
 180 100
 182 96.1 75.0 112.4
 184 30.4 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042647.D
 Acq On : 19 Jun 2025 08:56
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Quant Time: Jun 20 01:33:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	105774	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	271342	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.898	117	241435	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	196559	10.861	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	136240	10.480	ppbv	97
3) Chlorodifluoromethane	1.479	51	173781	9.706	ppbv	97
4) Chloromethane	1.538	50	51600	10.023	ppbv	98
5) Vinyl Chloride	1.586	62	47359	9.031	ppbv	98
6) Bromomethane	1.674	94	23626	9.256	ppbv	92
7) Chloroethane	1.709	64	19363	9.503	ppbv	94
8) Dichlorotetrafluoroethane	1.560	85	110759	10.225	ppbv	99
9) Propene	1.489	41	61227	8.492	ppbv	93
10) Heptane	4.998	43	192684	9.481	ppbv	100
11) Trichlorofluoromethane	1.884	101	138922	11.485	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	107085	11.274	ppbv	97
13) Ethanol	1.729	45	5756	6.699	ppbv	94
14) Bromoethene	1.787	108	36607	10.246	ppbv	98
15) Acetone	1.842	43	111893	8.782	ppbv	97
16) 1,3-Butadiene	1.615	39	55514	9.198	ppbv	95
17) tert-Butyl alcohol	2.046	59	127048	9.572	ppbv	99
18) 1,1-Dichloroethene	2.043	96	46032	10.456	ppbv	88
19) Isopropyl Alcohol	1.894	45	71320	9.364	ppbv	97
20) Methylene Chloride	2.068	84	40012	9.516	ppbv	97
21) Allyl Chloride	2.104	41	88888	9.888	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	51990	10.572	ppbv	97
23) Vinyl Acetate	2.470	43	216348	12.562	ppbv #	97
24) 1,1-Dichloroethane	2.418	63	104587	10.337	ppbv	98
25) Ethyl Acetate	2.845	43	344364	9.877	ppbv	100
26) Hexane	2.836	57	149241	9.420	ppbv	97
27) Carbon Disulfide	2.159	76	130069	10.694	ppbv	93
28) Methyl tert-Butyl Ether	2.450	73	67907	10.562	ppbv	97
29) Chloroform	2.858	83	224802	10.911	ppbv	94
30) Cyclohexane	3.871	84	118051	8.988	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	142746	9.850	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	214355	10.183	ppbv	98
34) 2-Butanone	2.567	43	223326	11.541	ppbv	99
35) Carbon Tetrachloride	3.777	117	215300	12.020	ppbv	99
36) Benzene	3.671	78	293622	10.989	ppbv	99
37) 1,2-Dichloroethane	3.230	62	166507	12.538	ppbv	98
38) Trichloroethene	4.567	130	114475	10.079	ppbv	87
39) 1,2-Dichloropropane	4.334	63	109999	11.132	ppbv	97
40) 1,4-Dioxane	4.600	88	46358	10.484	ppbv #	87
41) Tetrahydrofuran	3.065	42	119620	10.561	ppbv	98
42) Bromodichloromethane	4.509	83	233466	12.378	ppbv	100
43) Methyl Methacrylate	4.901	69	110041	10.611	ppbv	98
44) 2,2,4-Trimethylpentane	4.661	57	504893	11.047	ppbv	98
45) t-1,3-Dichloropropene	6.438	75	125932	10.611	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042647.D
 Acq On : 19 Jun 2025 08:56
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

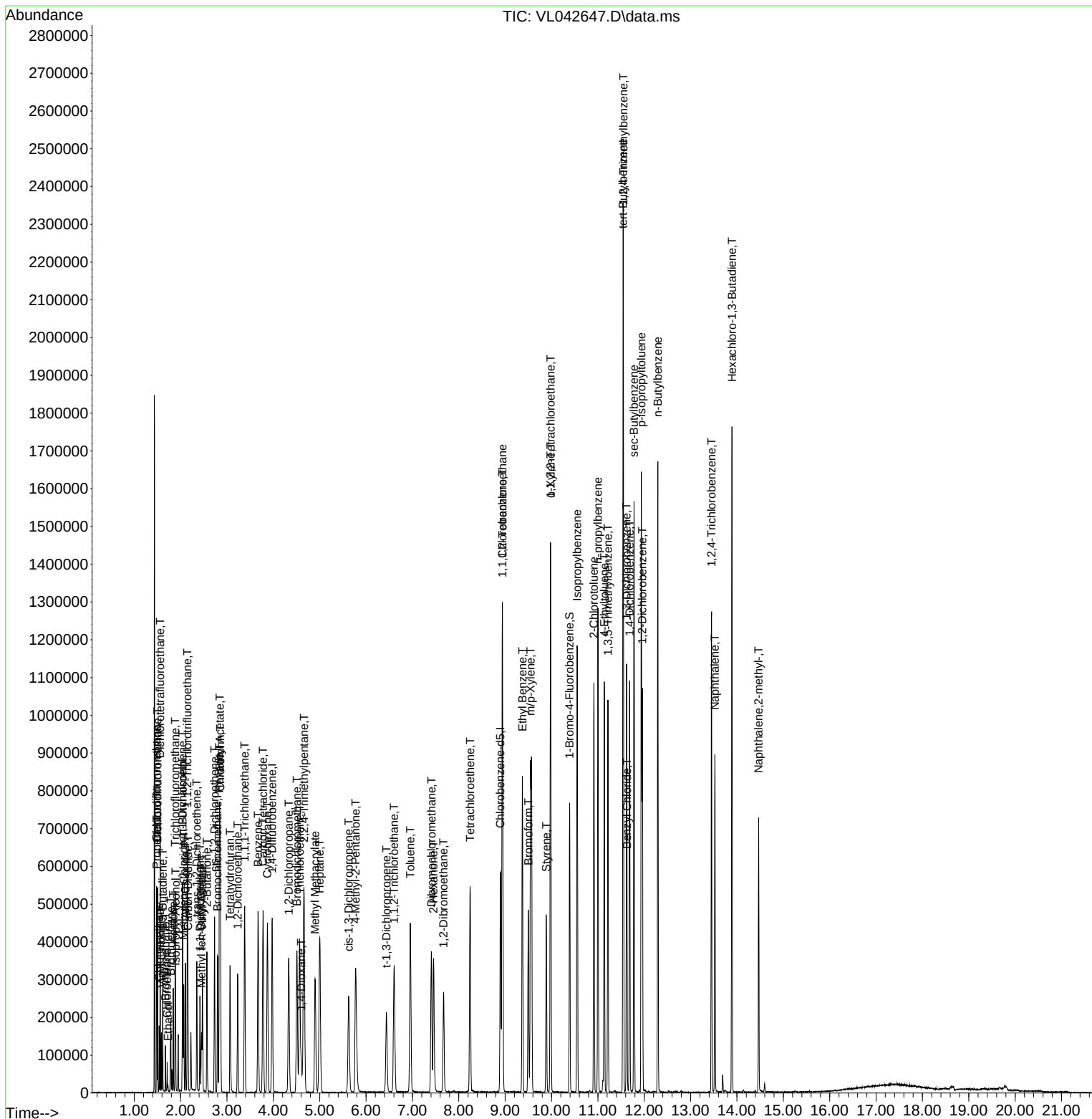
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

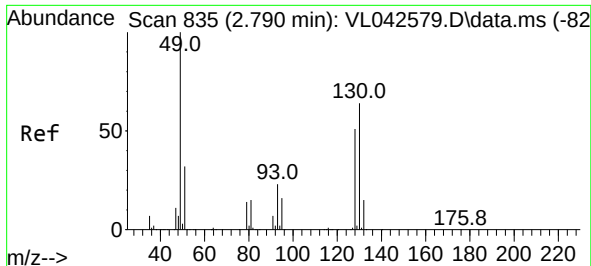
Quant Time: Jun 20 01:33:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	160436	10.789	ppbv	98
47) 1,1,2-Trichloroethane	6.603	97	115320	11.274	ppbv	95
48) Dibromochloromethane	7.409	129	187063	11.424	ppbv	100
49) Bromoform	9.500	173	168088	11.897	ppbv	99
50) 4-Methyl-2-Pentanone	5.774	43	298895	11.136	ppbv	98
51) 2-Hexanone	7.454	43	237889	11.175	ppbv #	97
52) Tetrachloroethene	8.244	164	99591	9.974	ppbv	95
53) Toluene	6.956	91	319753	10.354	ppbv	99
54) 1,2-Dibromoethane	7.671	107	170816	11.282	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.943	131	145178	11.959	ppbv	97
57) Chlorobenzene	8.940	112	258681	11.034	ppbv	99
58) Ethyl Benzene	9.370	91	453357	11.070	ppbv	95
59) m/p-Xylene	9.548	91	398756	12.373	ppbv #	29
60) o-Xylene	9.979	91	377860	11.756	ppbv	97
61) Styrene	9.888	104	158381	10.422	ppbv	97
62) Isopropylbenzene	10.552	105	548530	11.551	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.979	83	247429	12.106	ppbv	99
64) n-propylbenzene	11.002	120	145207	11.407	ppbv	94
65) tert-Butylbenzene	11.542	119	482745	11.202	ppbv	97
66) Benzyl Chloride	11.630	91	53662	9.674	ppbv	97
67) sec-Butylbenzene	11.778	105	690565	11.398	ppbv	98
69) p-Isopropyltoluene	11.937	119	569182	11.219	ppbv	98
70) n-Butylbenzene	12.293	91	589246	11.766	ppbv	98
71) 2-Chlorotoluene	10.914	91	419351	11.577	ppbv	96
72) 4-Ethyltoluene	11.138	105	465148	11.607	ppbv	98
73) 1,3,5-Trimethylbenzene	11.215	105	385257	11.615	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	431897	11.734	ppbv	91
75) 1,3-Dichlorobenzene	11.620	146	266086	11.512	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	266486	11.560	ppbv	98
77) 1,2-Dichlorobenzene	11.960	146	256200	11.421	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	183922	9.909	ppbv	99
79) Naphthalene	13.523	128	403844	11.640	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	190371	12.145	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	208409	10.761	ppbv	99

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

Quant Time: Jun 20 01:33:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

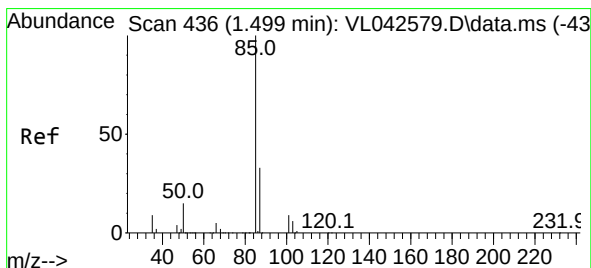
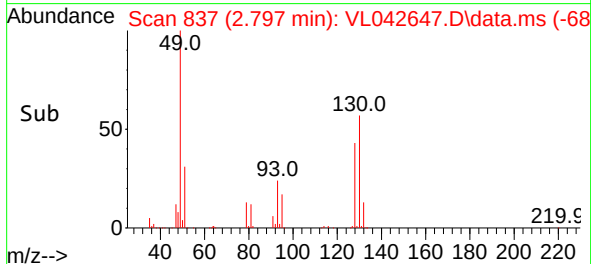
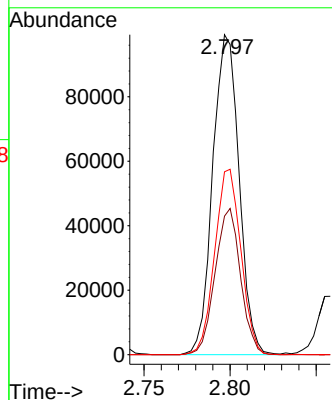
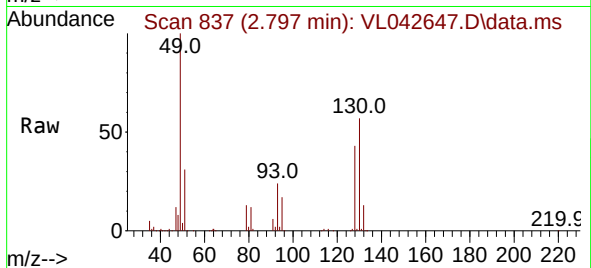




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

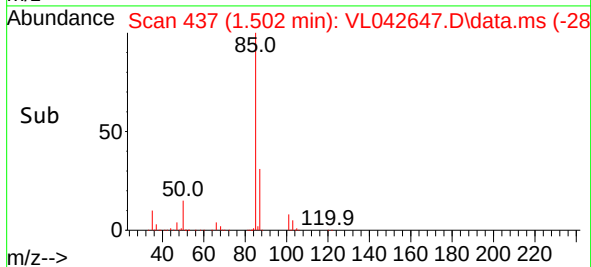
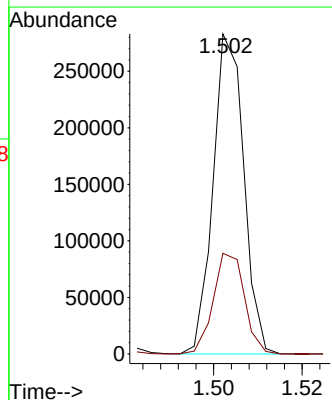
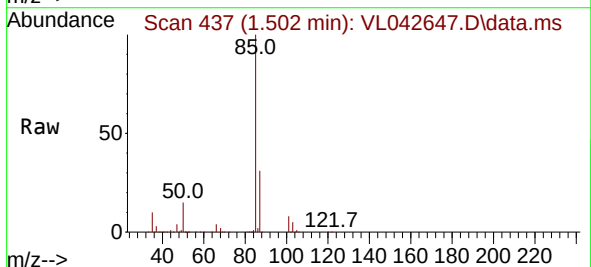
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

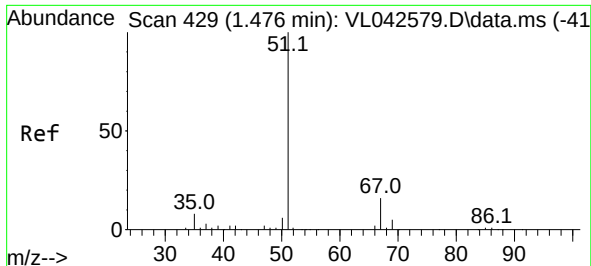
Tgt Ion: 49 Resp: 105774
Ion Ratio Lower Upper
49 100
128 44.2 24.2 72.6
130 57.6 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 10.480 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 85 Resp: 136240
Ion Ratio Lower Upper
85 100
87 31.4 26.6 39.8

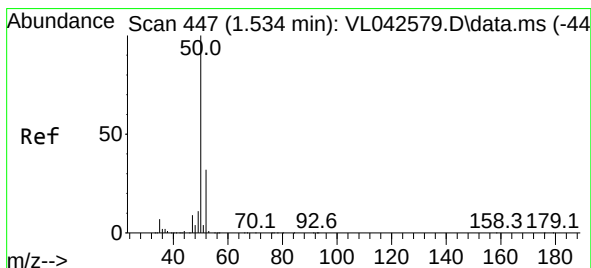
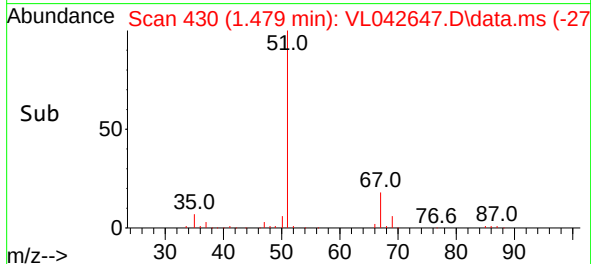
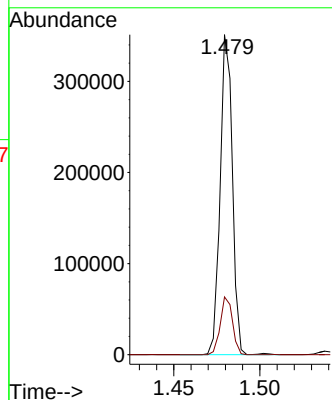
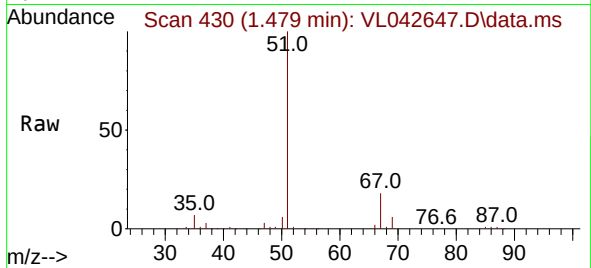




#3
Chlorodifluoromethane
Concen: 9.706 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

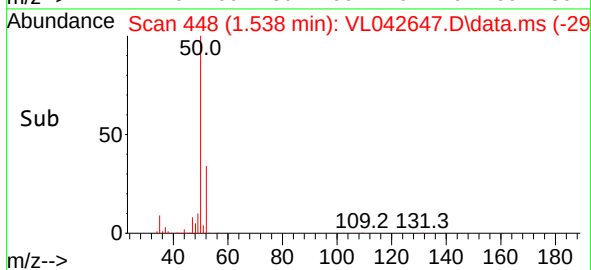
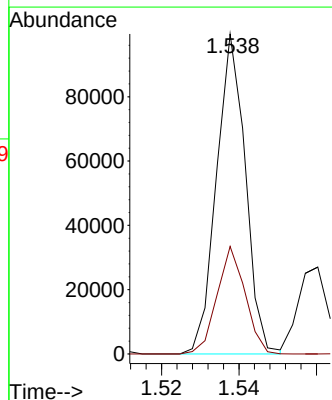
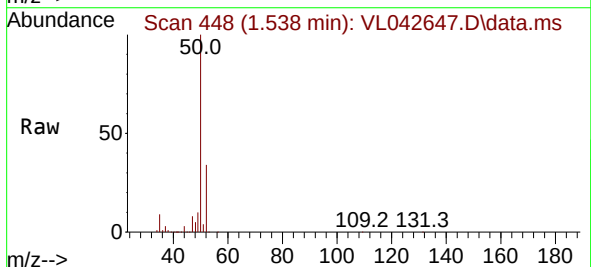
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

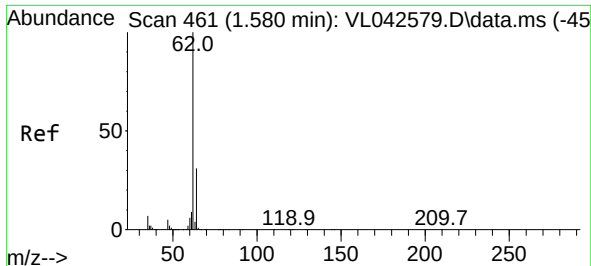
Tgt Ion: 51 Resp: 173781
Ion Ratio Lower Upper
51 100
67 18.1 13.4 20.2



#4
Chloromethane
Concen: 10.023 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 50 Resp: 51600
Ion Ratio Lower Upper
50 100
52 33.6 25.8 38.6

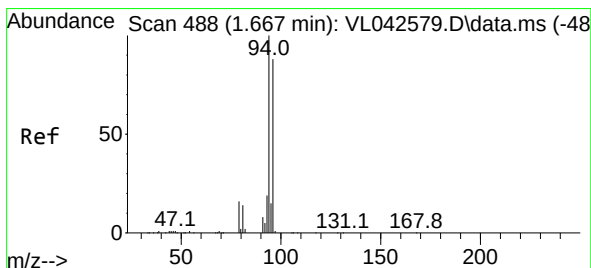
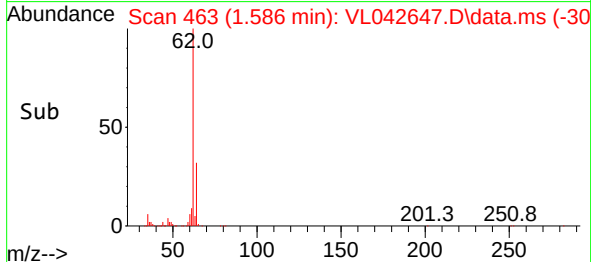
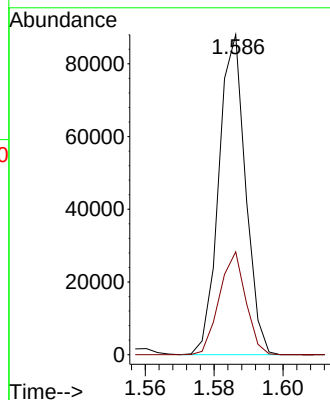
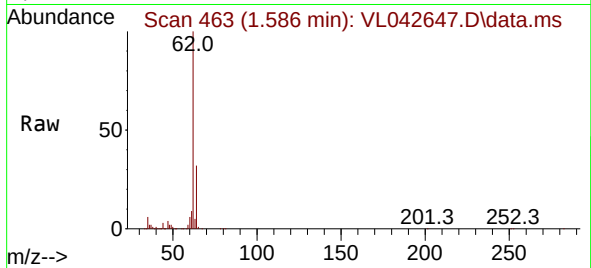




#5
 Vinyl Chloride
 Concen: 9.031 ppbv
 RT: 1.586 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

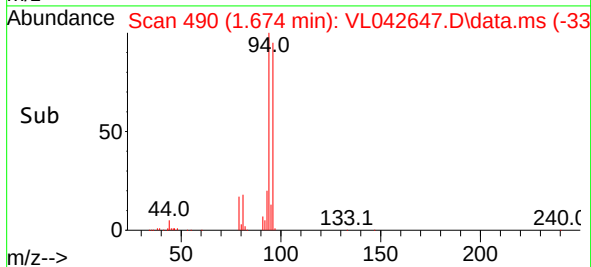
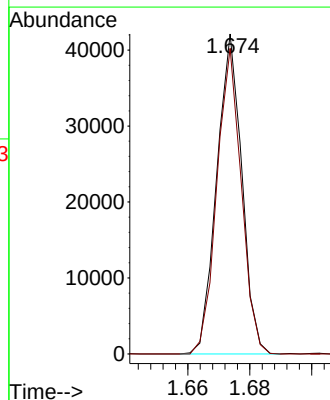
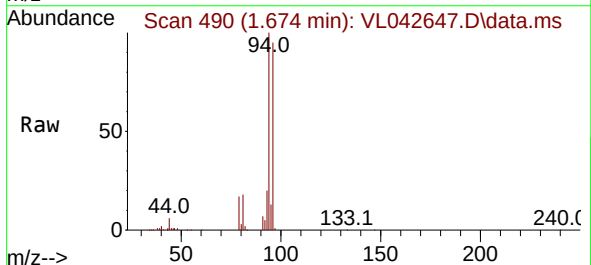
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

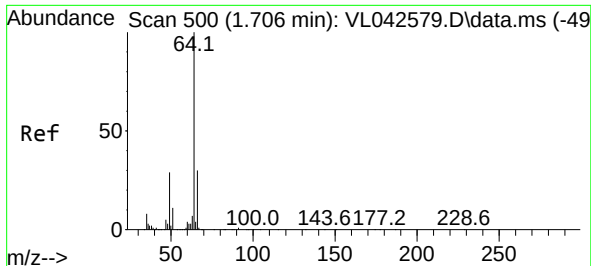
Tgt Ion: 62 Resp: 47359
 Ion Ratio Lower Upper
 62 100
 64 32.1 24.9 37.3



#6
 Bromomethane
 Concen: 9.256 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.007 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

Tgt Ion: 94 Resp: 23626
 Ion Ratio Lower Upper
 94 100
 96 95.5 70.7 106.1

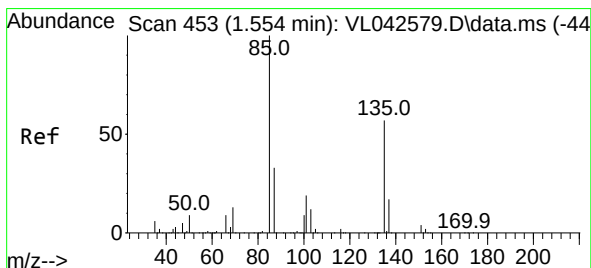
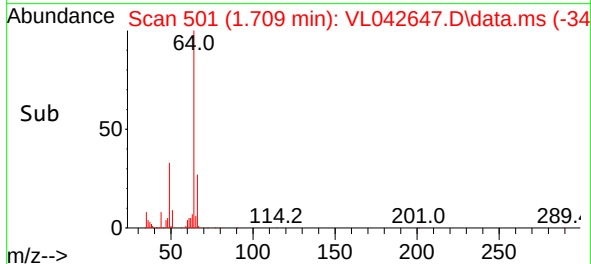
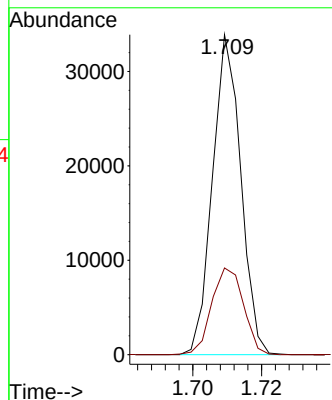
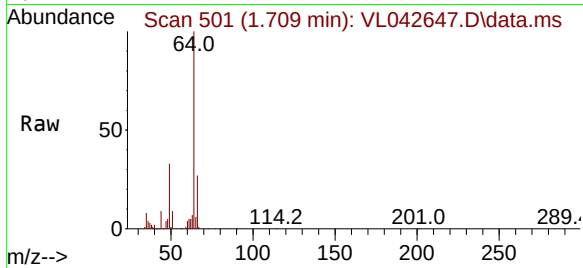




#7
Chloroethane
Concen: 9.503 ppbv
RT: 1.709 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

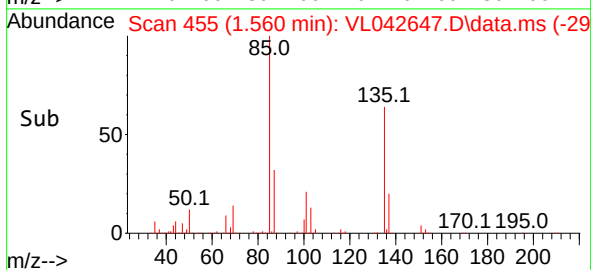
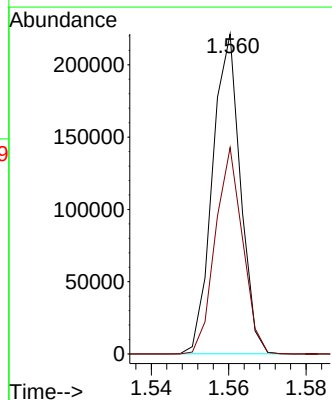
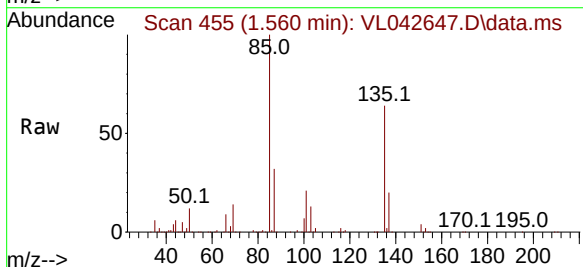
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

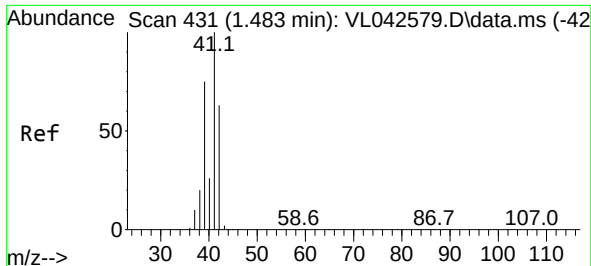
Tgt Ion: 64 Resp: 19363
Ion Ratio Lower Upper
64 100
66 27.1 24.3 36.5



#8
Dichlorotetrafluoroethane
Concen: 10.225 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 85 Resp: 110759
Ion Ratio Lower Upper
85 100
135 63.2 50.2 75.4





#9

Propene

Concen: 8.492 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

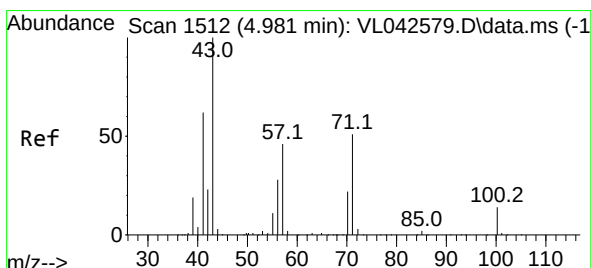
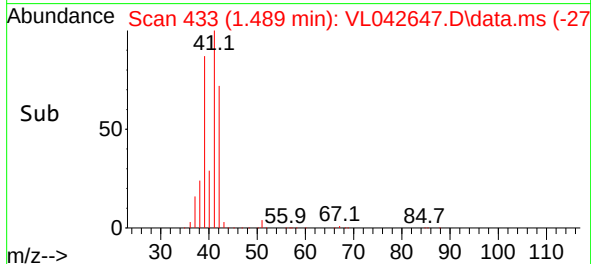
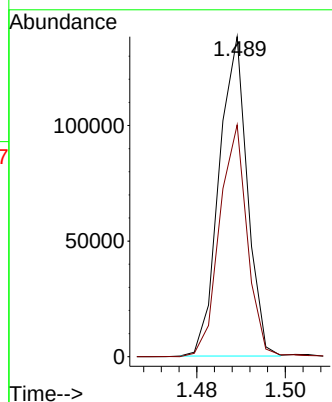
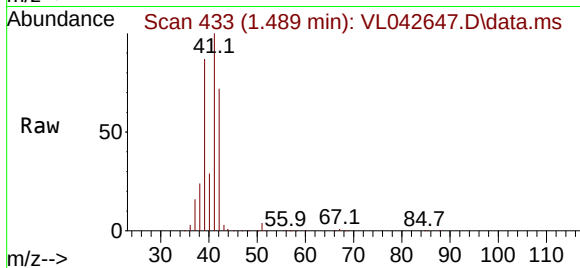
VSTDCCC010

Tgt Ion: 41 Resp: 61227

Ion Ratio Lower Upper

41 100

42 72.3 53.3 79.9



#10

Heptane

Concen: 9.481 ppbv

RT: 4.998 min Scan# 1517

Delta R.T. 0.016 min

Lab File: VL042647.D

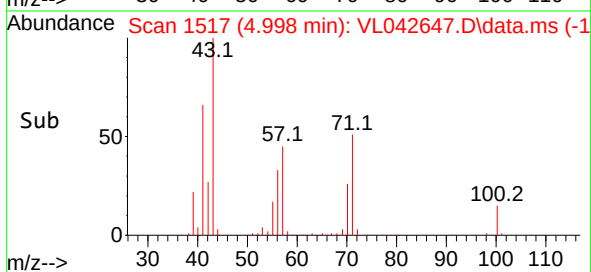
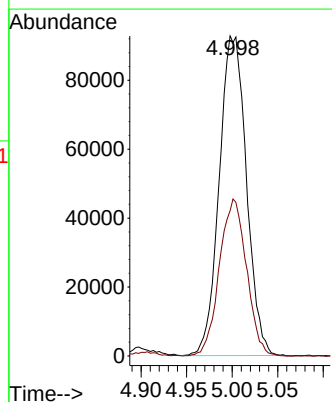
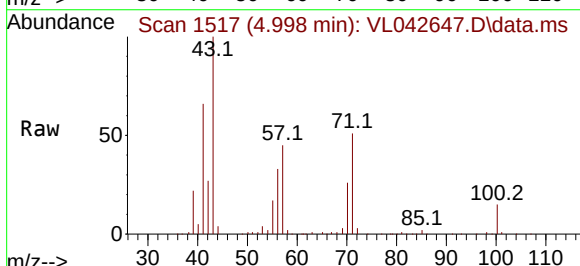
Acq: 19 Jun 2025 08:56

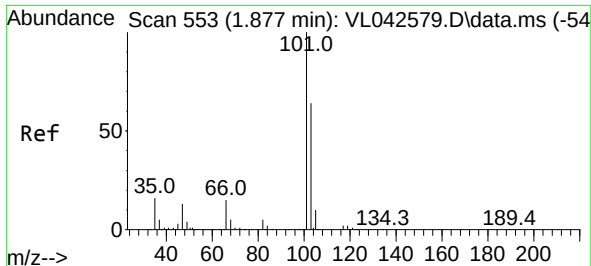
Tgt Ion: 43 Resp: 192684

Ion Ratio Lower Upper

43 100

57 48.9 38.9 58.3

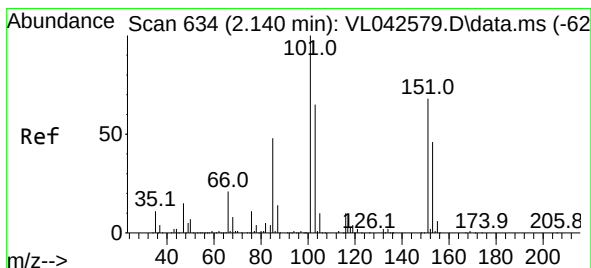
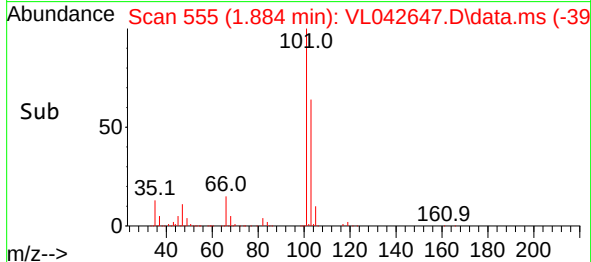
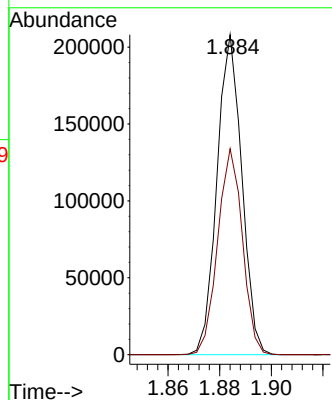
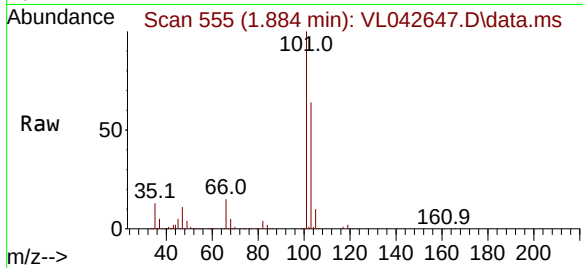




#11
Trichlorofluoromethane
Concen: 11.485 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

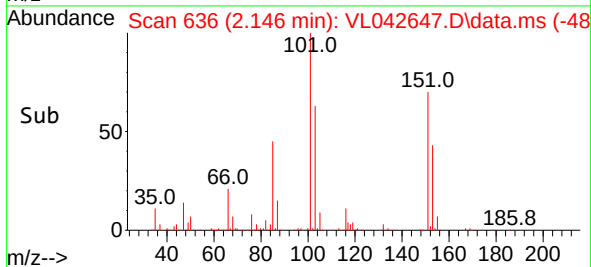
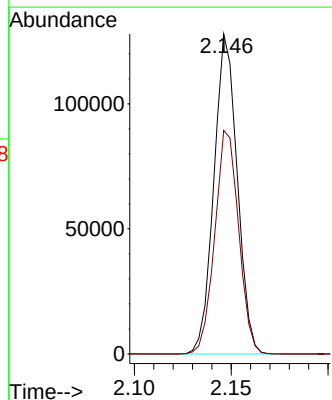
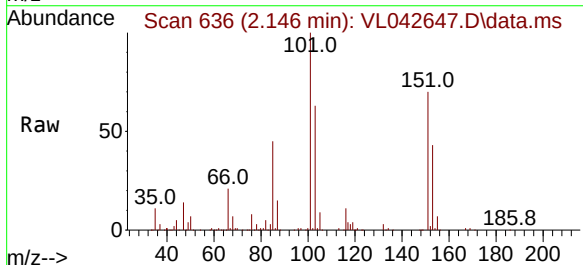
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

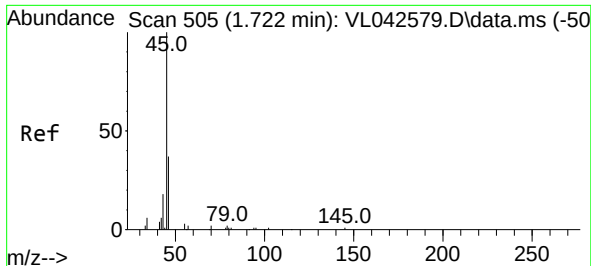
Tgt Ion:101 Resp: 138922
Ion Ratio Lower Upper
101 100
103 64.3 51.5 77.3



#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.274 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion:101 Resp: 107085
Ion Ratio Lower Upper
101 100
151 71.5 55.3 82.9

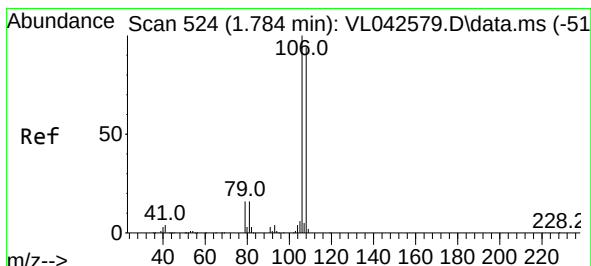
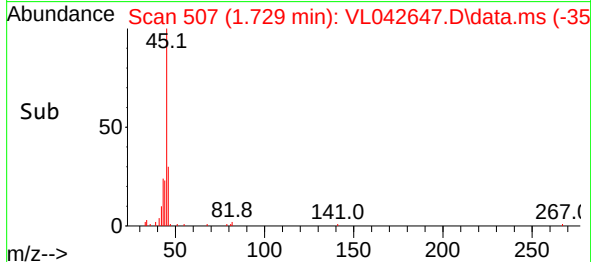
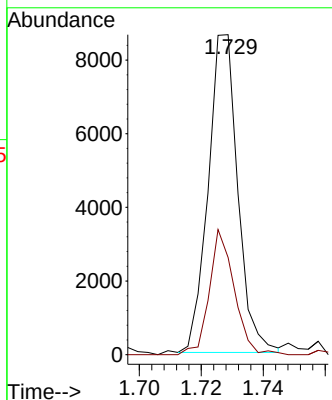
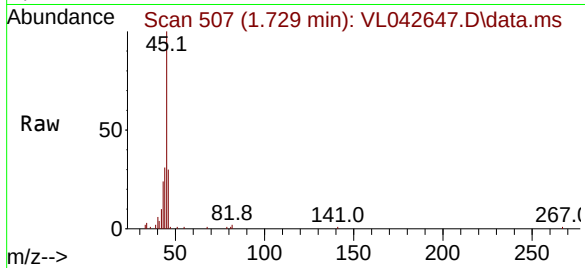




#13
 Ethanol
 Concen: 6.699 ppbv
 RT: 1.729 min Scan# 505
 Delta R.T. 0.006 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

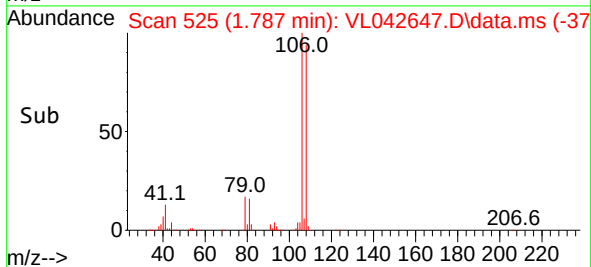
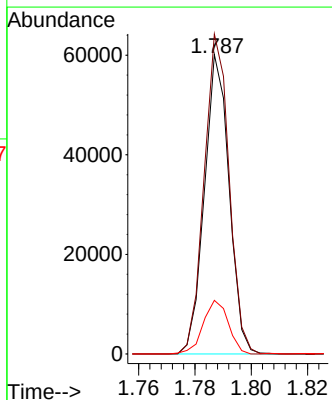
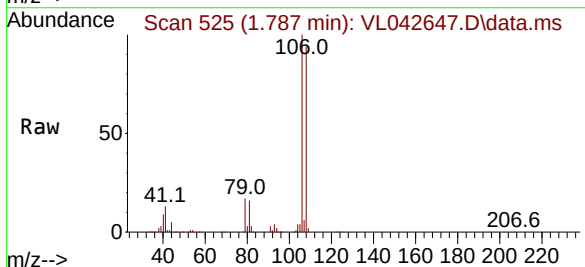
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

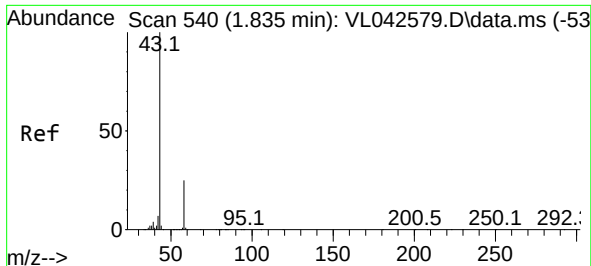
Tgt Ion: 45 Resp: 5756
 Ion Ratio Lower Upper
 45 100
 46 33.0 14.5 58.1



#14
 Bromoethene
 Concen: 10.246 ppbv
 RT: 1.787 min Scan# 525
 Delta R.T. 0.003 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

Tgt Ion: 108 Resp: 36607
 Ion Ratio Lower Upper
 108 100
 106 107.9 87.9 131.9
 79 18.4 15.6 23.4

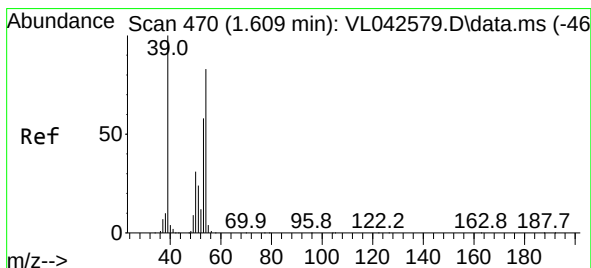
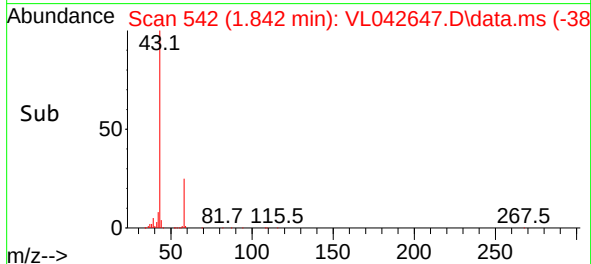
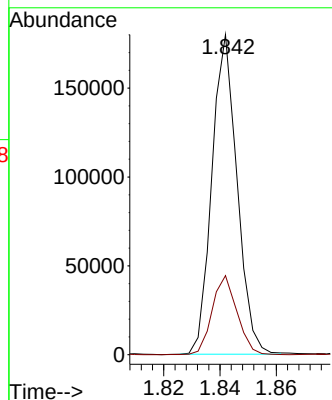
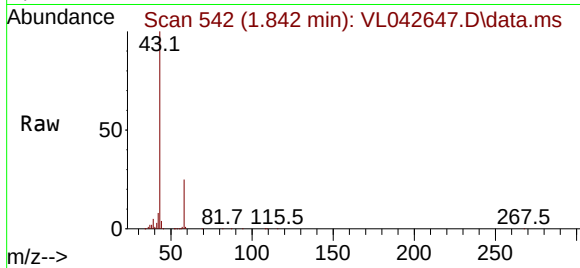




#15
Acetone
Concen: 8.782 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

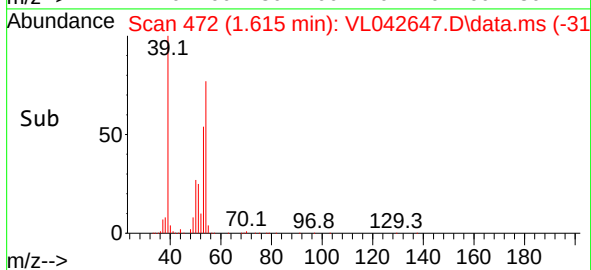
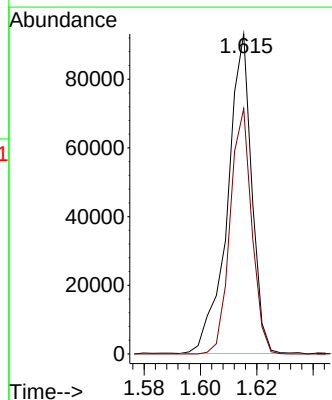
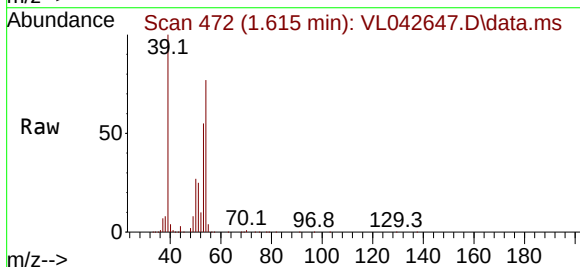
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

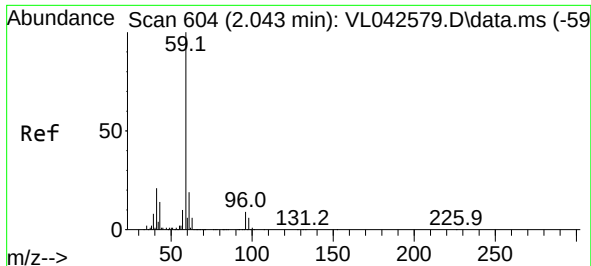
Tgt Ion: 43 Resp: 111893
Ion Ratio Lower Upper
43 100
58 24.5 21.0 31.4



#16
1,3-Butadiene
Concen: 9.198 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.007 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 39 Resp: 55514
Ion Ratio Lower Upper
39 100
54 68.5 57.9 86.9





#17

tert-Butyl alcohol

Concen: 9.572 ppbv

RT: 2.046 min Scan# 605

Delta R.T. 0.003 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_1

ClientSampleId :

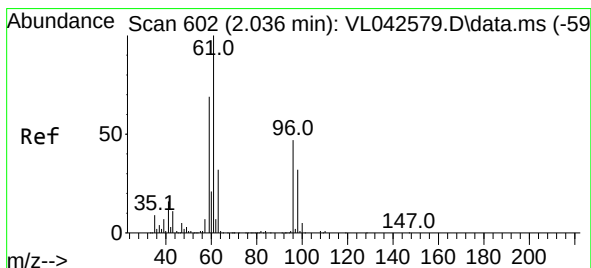
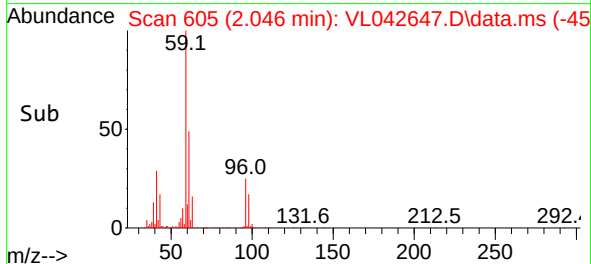
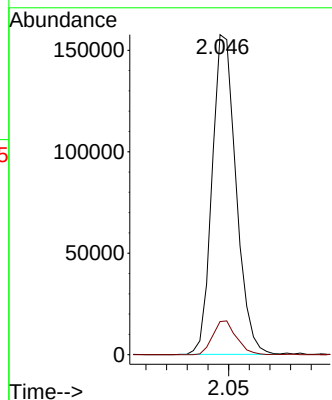
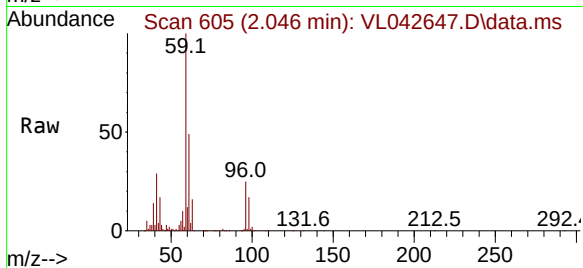
VSTDCCC010

Tgt Ion: 59 Resp: 127048

Ion Ratio Lower Upper

59 100

57 10.5 8.6 12.8



#18

1,1-Dichloroethene

Concen: 10.456 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.007 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

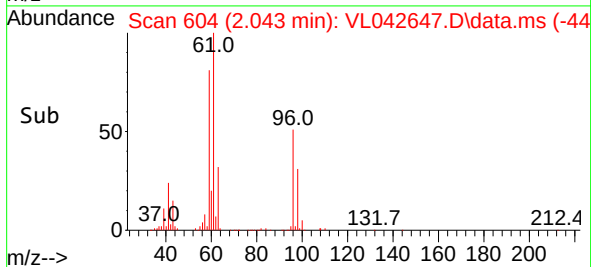
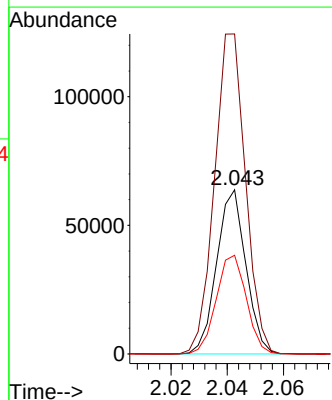
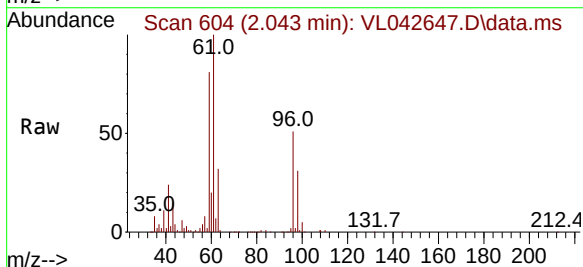
Tgt Ion: 96 Resp: 46032

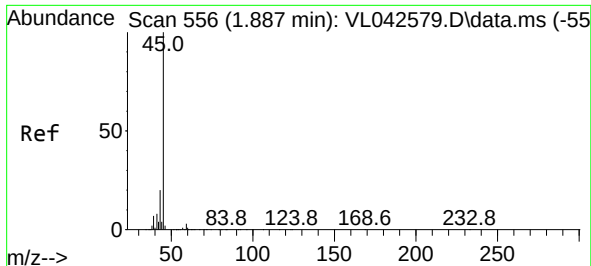
Ion Ratio Lower Upper

96 100

61 194.8 171.1 256.7

98 60.1 54.4 81.6

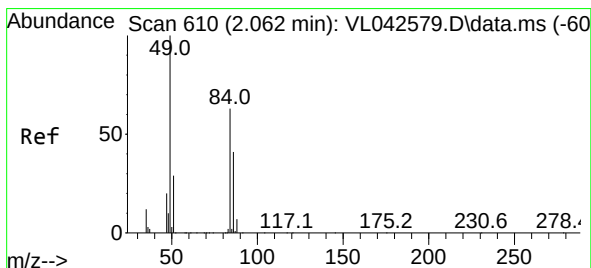
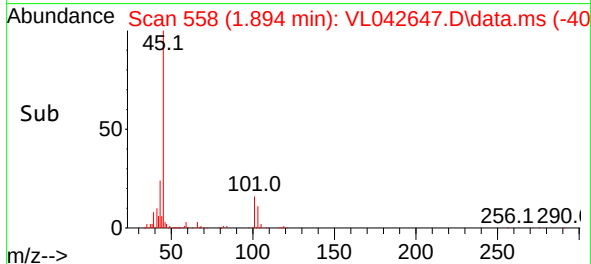
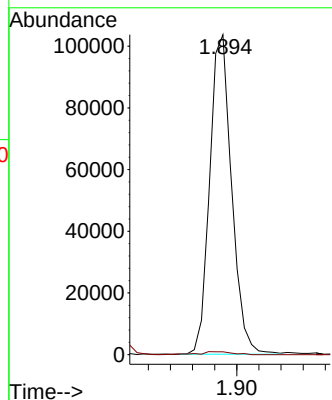
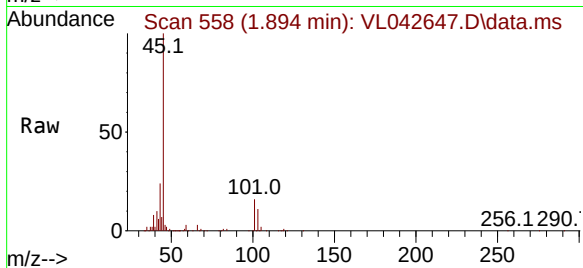




#19
Isopropyl Alcohol
Concen: 9.364 ppbv
RT: 1.894 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

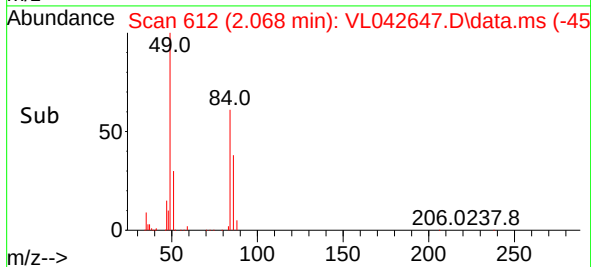
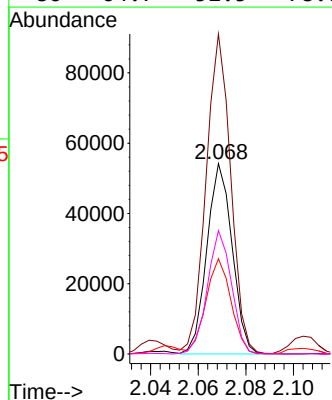
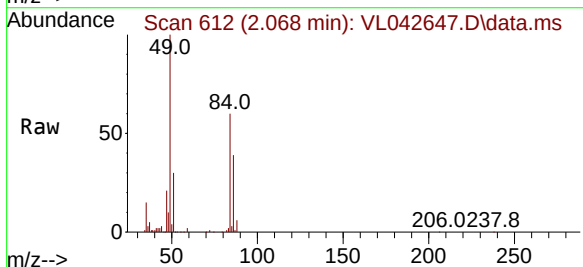
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

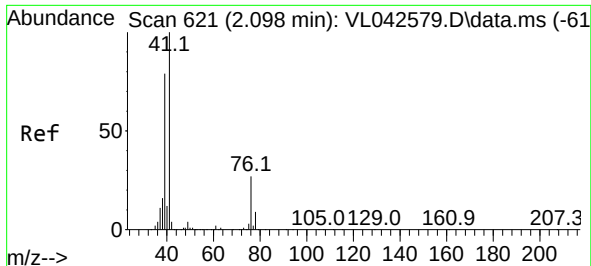
Tgt Ion: 45 Resp: 71320
Ion Ratio Lower Upper
45 100
58 38.4 29.4 44.2



#20
Methylene Chloride
Concen: 9.516 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 84 Resp: 40012
Ion Ratio Lower Upper
84 100
49 166.3 128.8 193.2
51 49.5 38.6 57.8
86 64.7 52.5 78.7

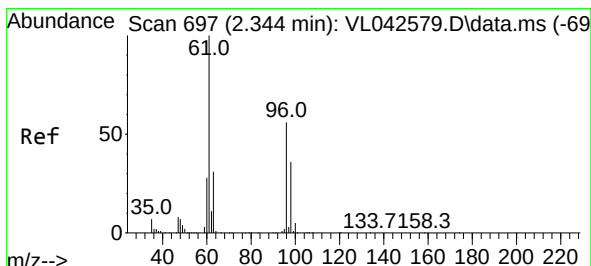
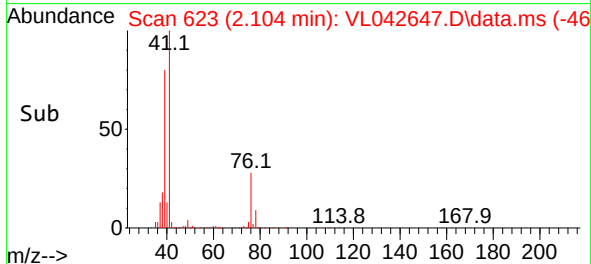
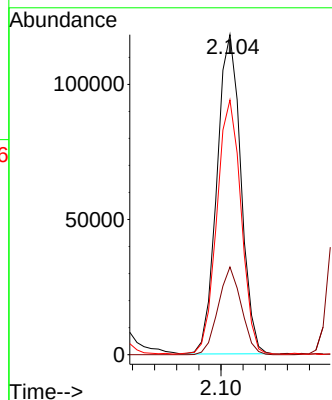
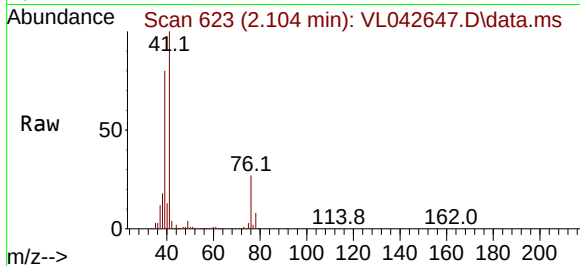




#21
 Allyl Chloride
 Concen: 9.888 ppbv
 RT: 2.104 min Scan# 61
 Delta R.T. 0.007 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

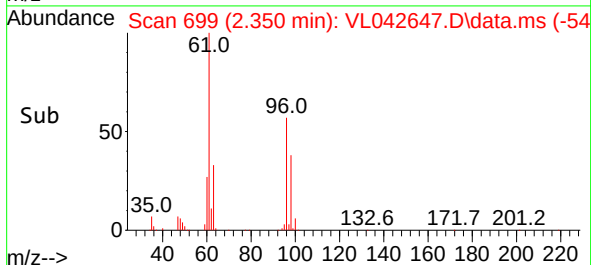
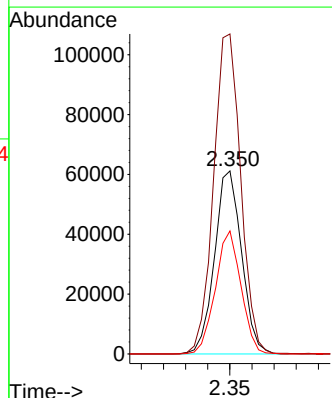
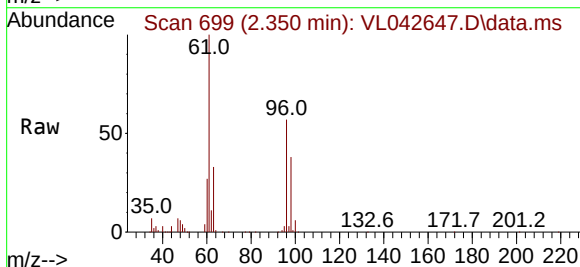
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

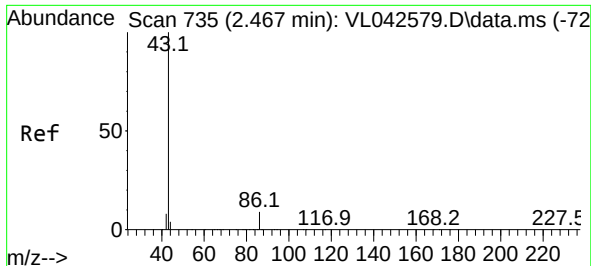
Tgt Ion: 41 Resp: 88888
 Ion Ratio Lower Upper
 41 100
 76 26.5 21.2 31.8
 39 81.0 60.9 91.3



#22
 trans-1,2-Dichloroethene
 Concen: 10.572 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.006 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

Tgt Ion: 96 Resp: 51990
 Ion Ratio Lower Upper
 96 100
 61 174.7 142.6 214.0
 98 67.2 51.0 76.4



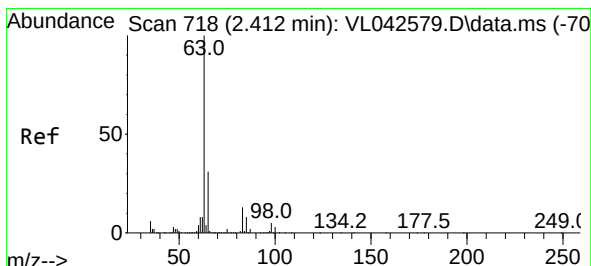
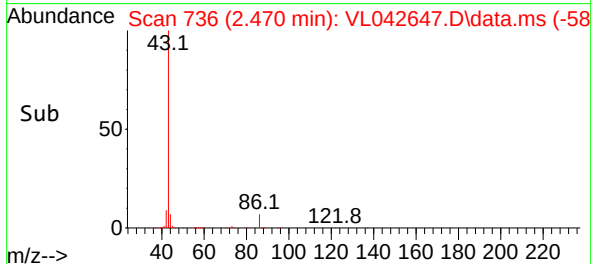
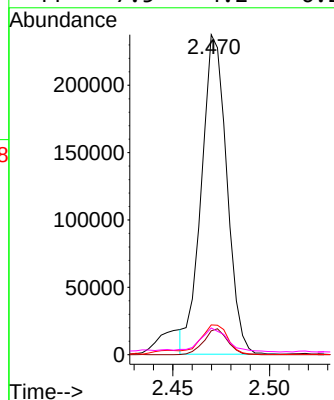
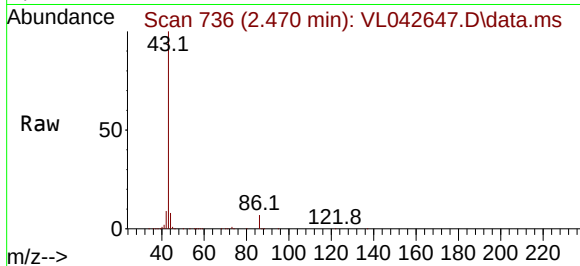


#23
 Vinyl Acetate
 Concen: 12.562 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 43 Resp: 216348

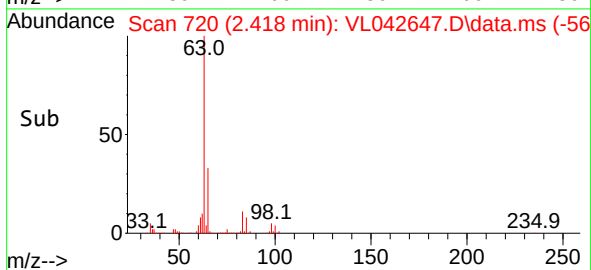
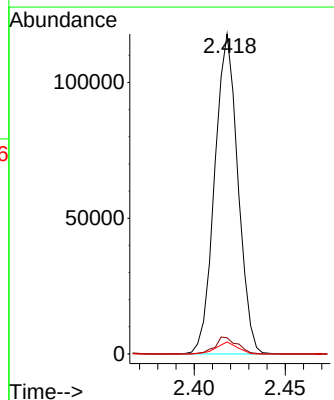
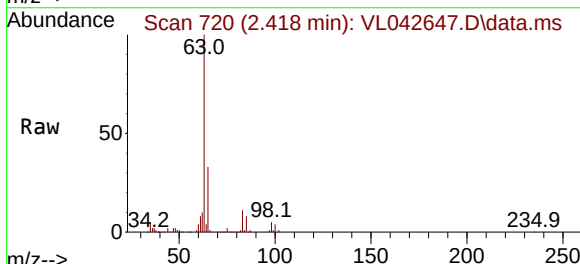
Ion	Ratio	Lower	Upper
43	100		
86	7.5	6.6	9.8
42	9.2	7.0	10.4
44	7.5	4.2	6.2

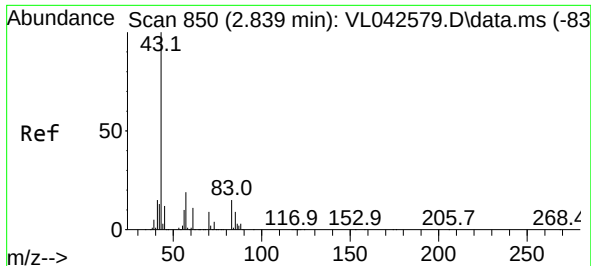


#24
 1,1-Dichloroethane
 Concen: 10.337 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.006 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

Tgt Ion: 63 Resp: 104587

Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.4	7.1
100	3.7	1.4	4.0

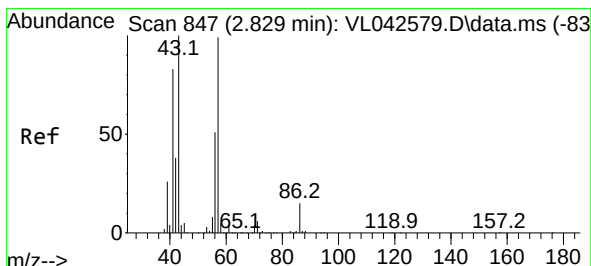
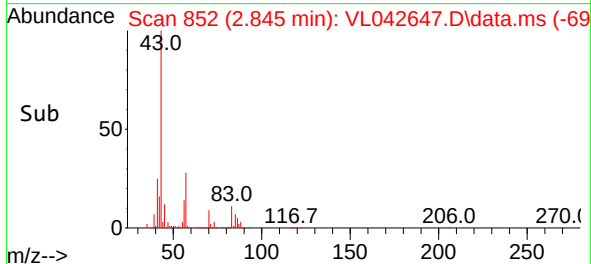
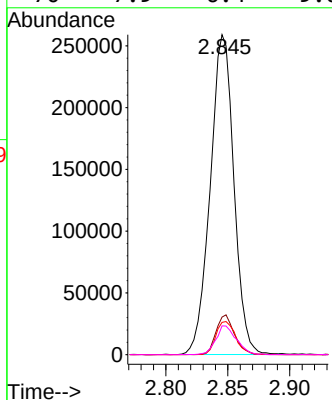
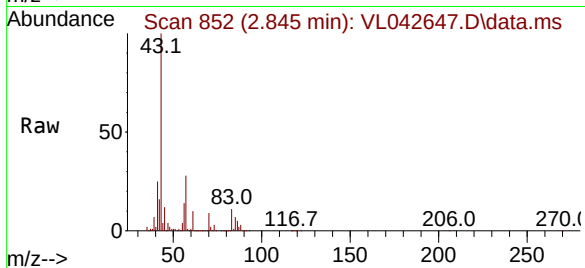




#25
Ethyl Acetate
Concen: 9.877 ppbv
RT: 2.845 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

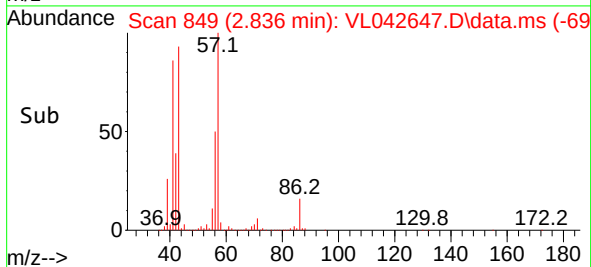
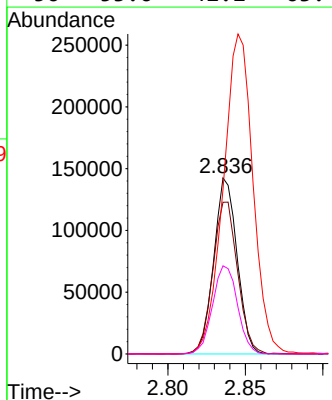
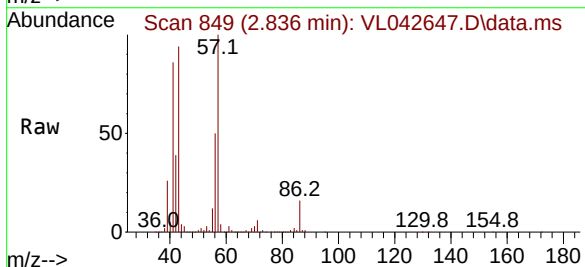
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

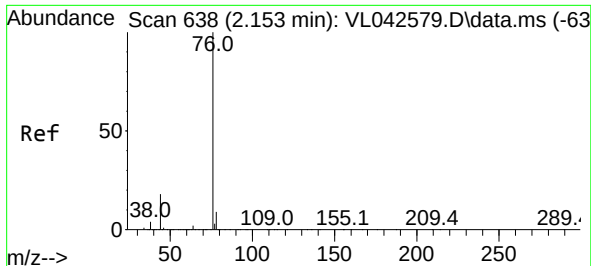
Tgt Ion:	43	Resp:	344364
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.2	12.2
61	8.8	7.1	10.7
70	7.9	6.4	9.6



#26
Hexane
Concen: 9.420 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion:	57	Resp:	149241
Ion	Ratio	Lower	Upper
57	100		
41	92.5	70.6	106.0
43	231.6	181.1	271.7
56	53.6	42.2	63.4

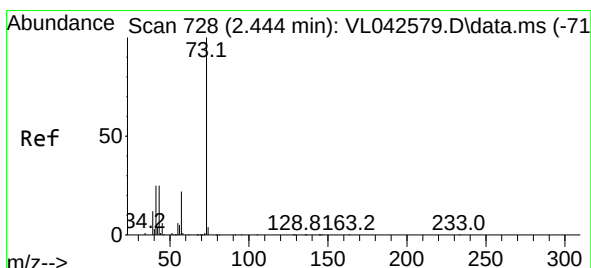
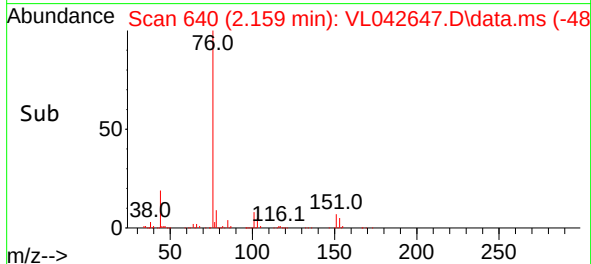
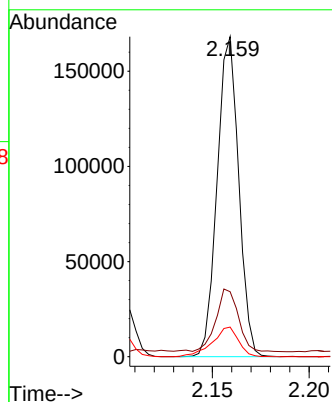
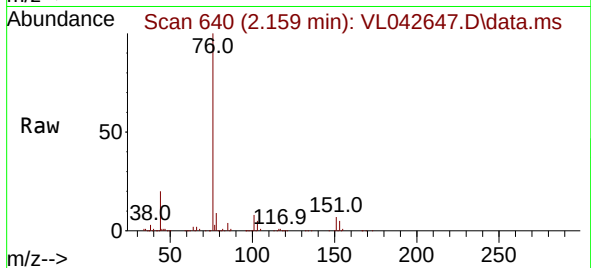




#27
Carbon Disulfide
Concen: 10.694 ppbv
RT: 2.159 min Scan# 64
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

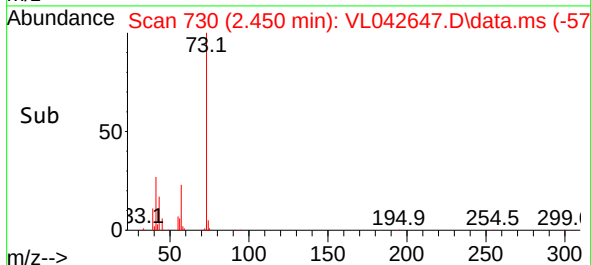
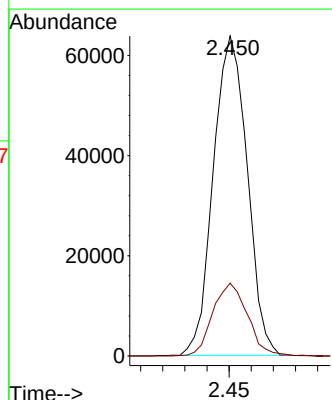
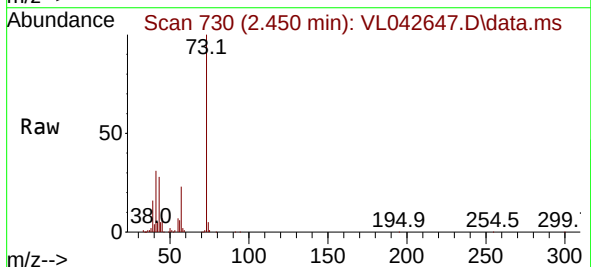
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

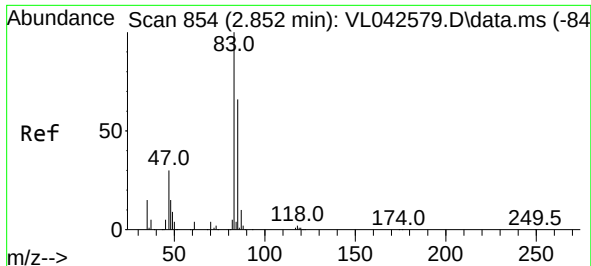
Tgt Ion: 76 Resp: 130069
Ion Ratio Lower Upper
76 100
44 21.8 21.3 31.9
78 11.2 9.4 14.0



#28
Methyl tert-Butyl Ether
Concen: 10.562 ppbv
RT: 2.450 min Scan# 730
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 73 Resp: 67907
Ion Ratio Lower Upper
73 100
57 23.4 19.9 29.9





#29

Chloroform

Concen: 10.911 ppbv

RT: 2.858 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

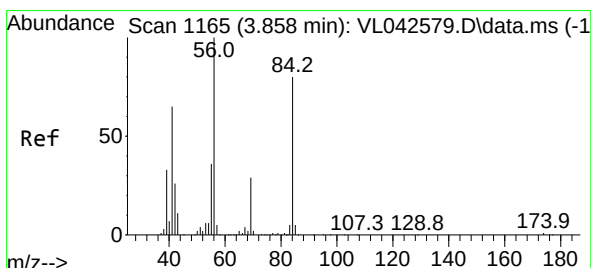
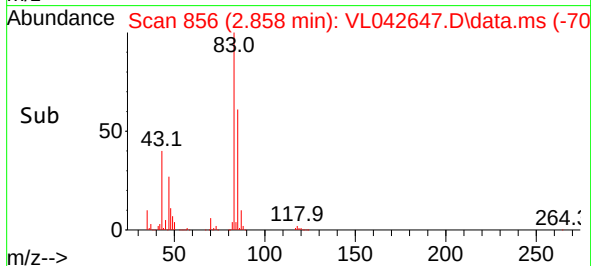
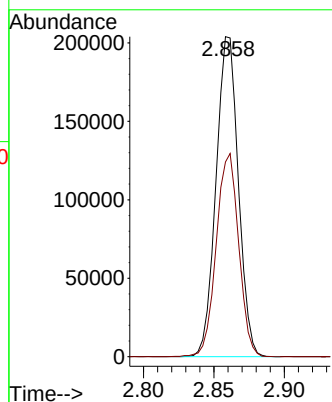
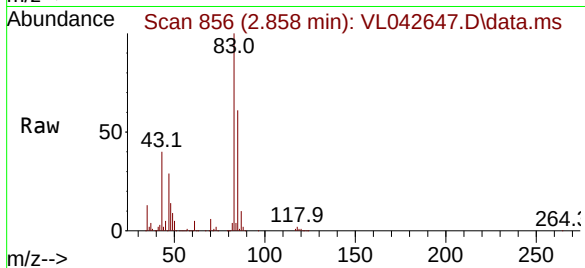
VSTDCCC010

Tgt Ion: 83 Resp: 224802

Ion Ratio Lower Upper

83 100

85 60.8 52.8 79.2



#30

Cyclohexane

Concen: 8.988 ppbv

RT: 3.871 min Scan# 1169

Delta R.T. 0.013 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

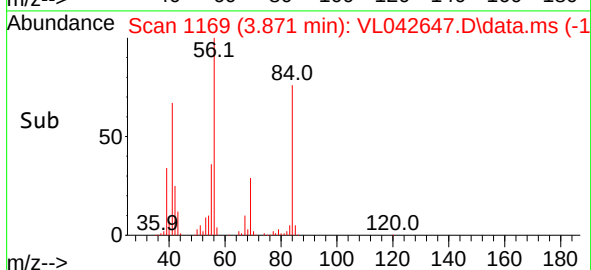
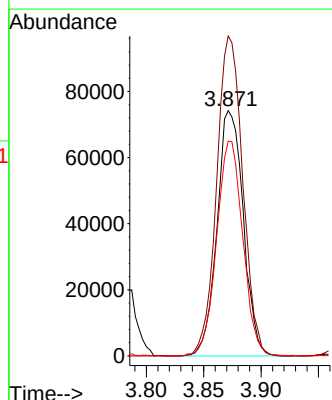
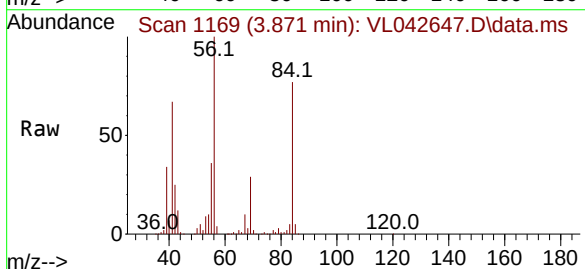
Tgt Ion: 84 Resp: 118051

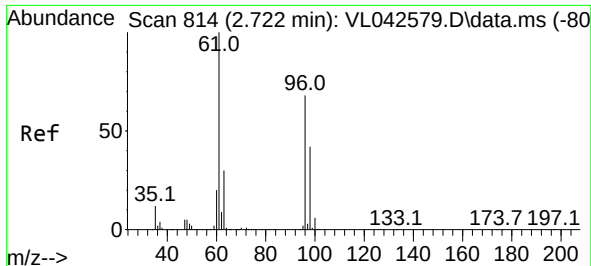
Ion Ratio Lower Upper

84 100

56 129.5 103.7 155.5

41 87.4 65.1 97.7

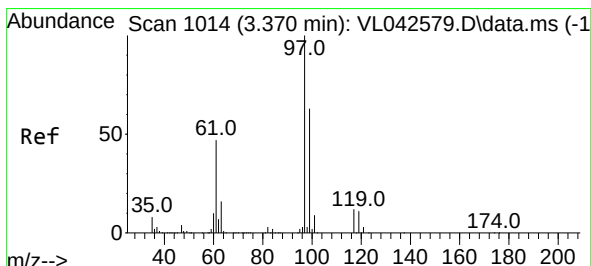
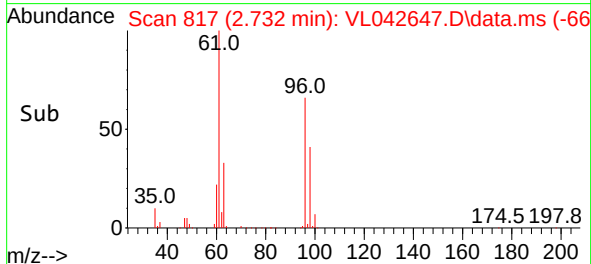
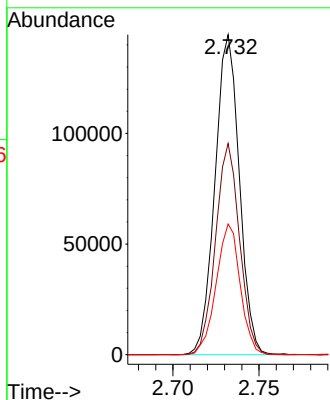
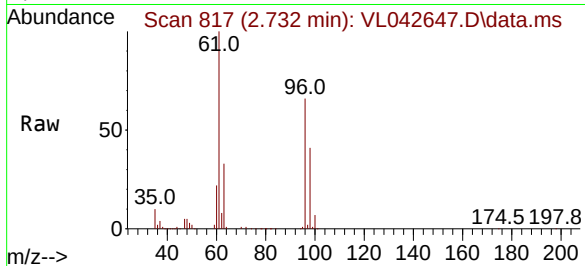




#31
 cis-1,2-Dichloroethene
 Concen: 9.850 ppbv
 RT: 2.732 min Scan# 814
 Delta R.T. 0.010 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

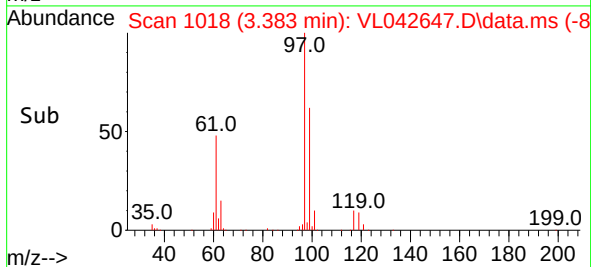
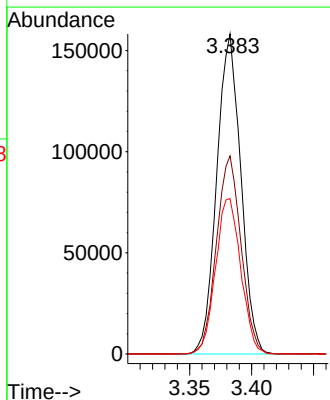
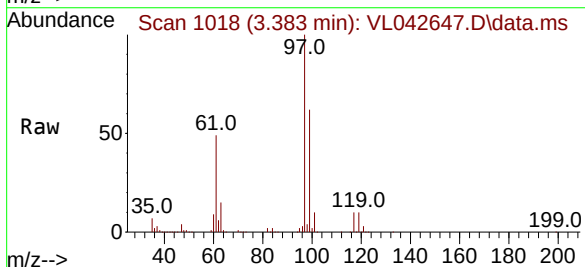
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

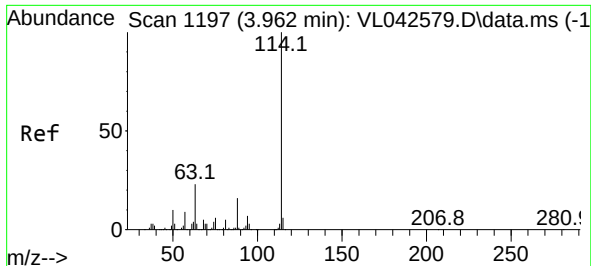
Tgt Ion: 61 Resp: 142746
 Ion Ratio Lower Upper
 61 100
 96 66.0 54.5 81.7
 98 40.8 33.4 50.2



#32
 1,1,1-Trichloroethane
 Concen: 10.183 ppbv
 RT: 3.383 min Scan# 1018
 Delta R.T. 0.013 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

Tgt Ion: 97 Resp: 214355
 Ion Ratio Lower Upper
 97 100
 99 63.1 51.0 76.6
 61 50.9 39.4 59.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1197

Delta R.T. 0.013 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

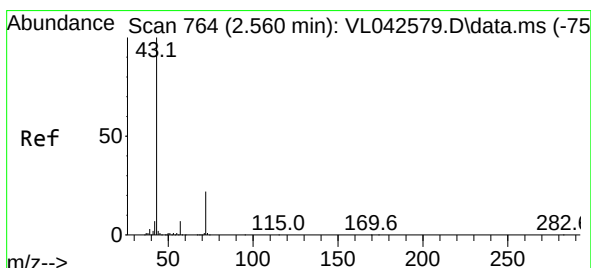
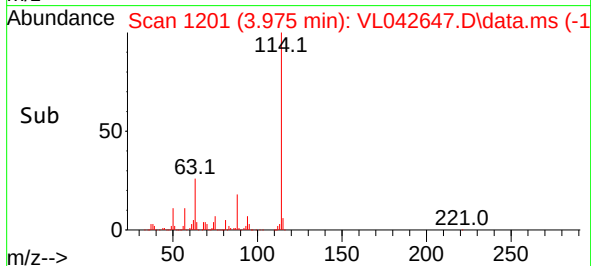
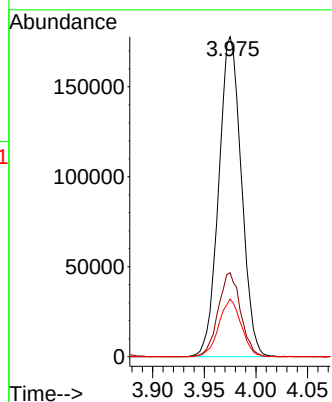
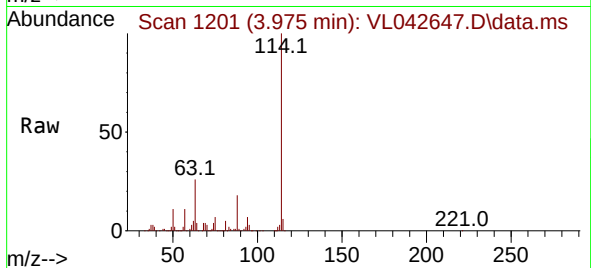
Tgt Ion:114 Resp: 271342

Ion Ratio Lower Upper

114 100

63 26.1 19.0 28.6

88 17.8 13.6 20.4



#34

2-Butanone

Concen: 11.541 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.007 min

Lab File: VL042647.D

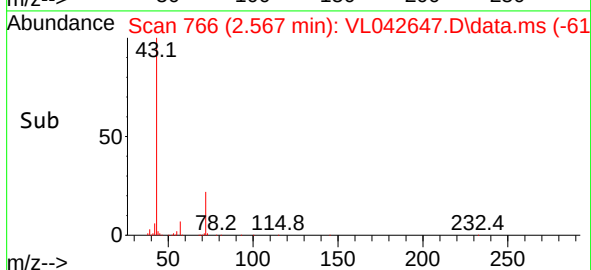
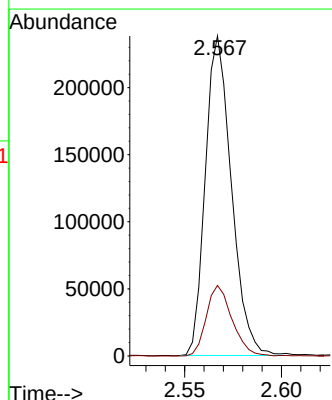
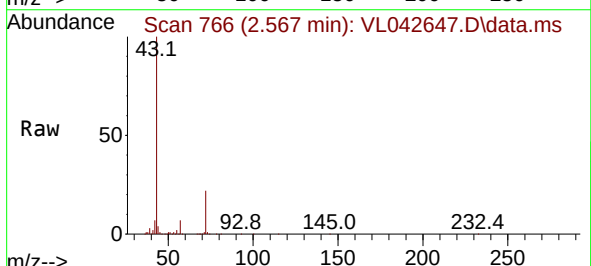
Acq: 19 Jun 2025 08:56

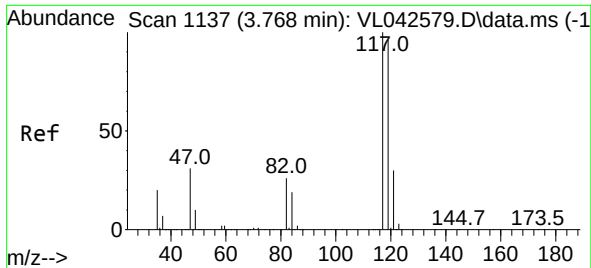
Tgt Ion: 43 Resp: 223326

Ion Ratio Lower Upper

43 100

72 21.8 17.7 26.5

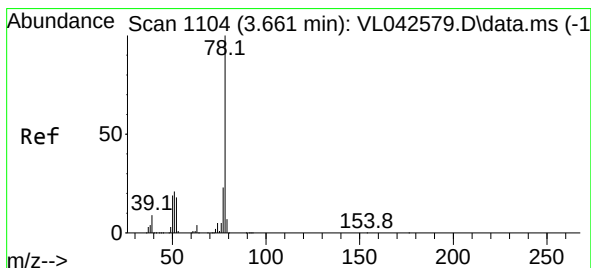
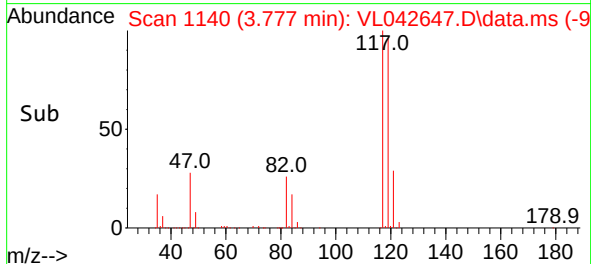
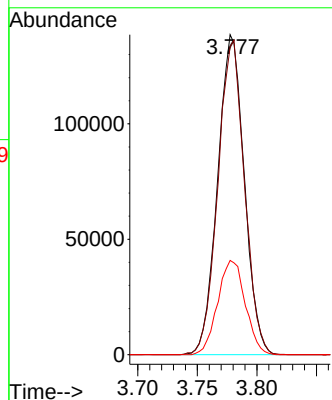
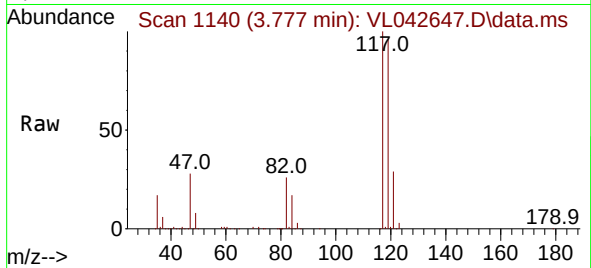




#35
Carbon Tetrachloride
Concen: 12.020 ppbv
RT: 3.777 min Scan# 1137
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

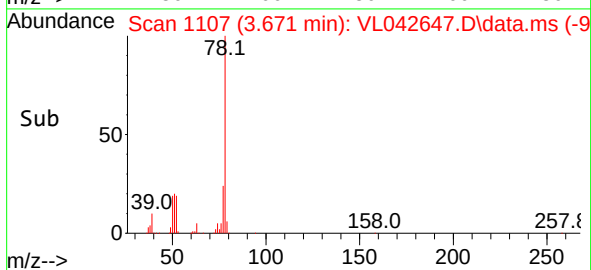
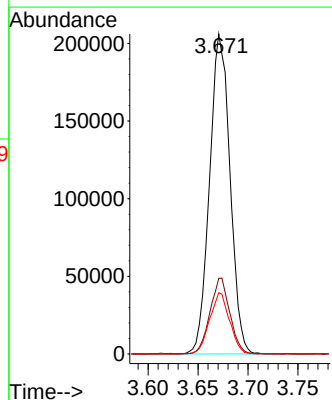
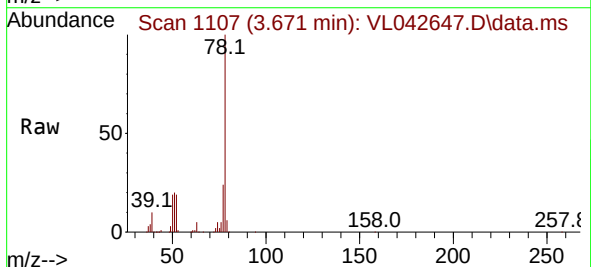
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

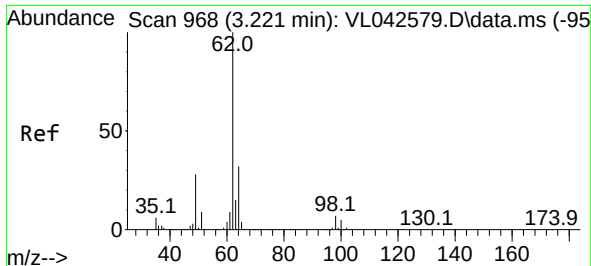
Tgt Ion:117 Resp: 215300
Ion Ratio Lower Upper
117 100
119 96.3 76.8 115.2
121 29.5 24.3 36.5



#36
Benzene
Concen: 10.989 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 78 Resp: 293622
Ion Ratio Lower Upper
78 100
77 23.6 18.2 27.2
50 19.1 15.2 22.8

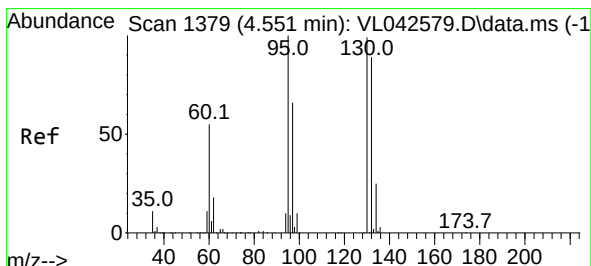
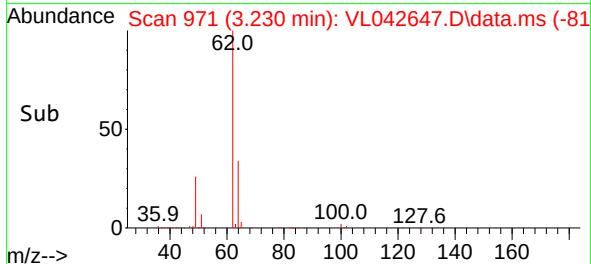
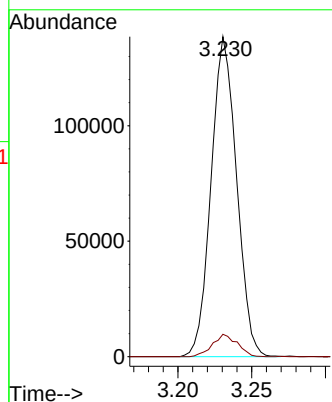
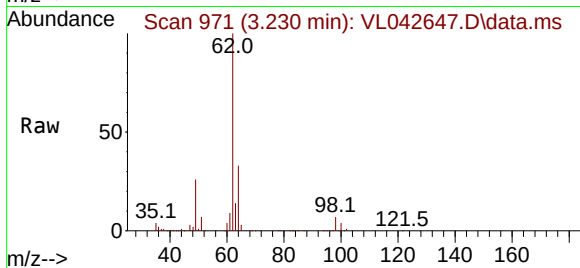




#37
1,2-Dichloroethane
Concen: 12.538 ppbv
RT: 3.230 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

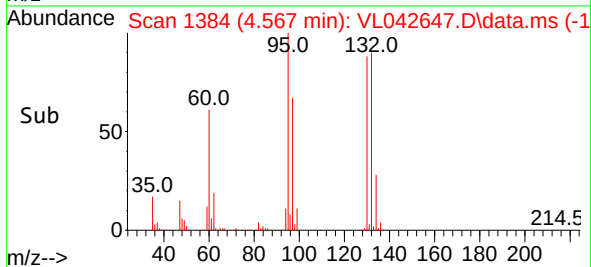
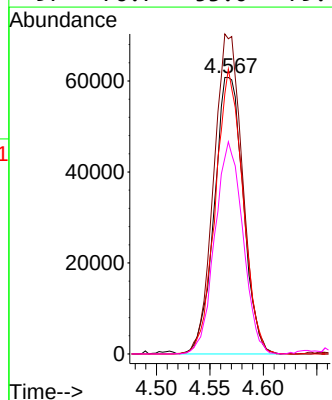
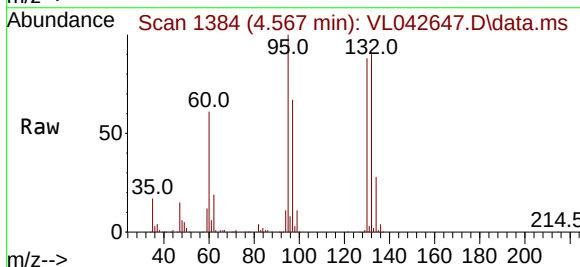
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

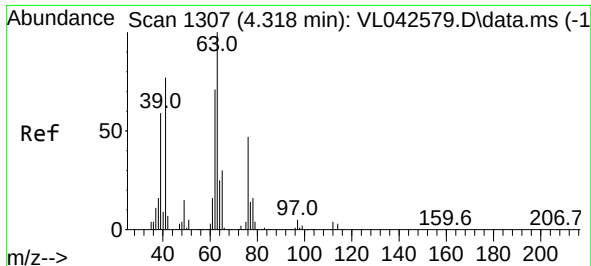
Tgt Ion: 62 Resp: 166507
Ion Ratio Lower Upper
62 100
98 6.8 6.1 9.1



#38
Trichloroethene
Concen: 10.079 ppbv
RT: 4.567 min Scan# 1384
Delta R.T. 0.016 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 130 Resp: 114475
Ion Ratio Lower Upper
130 100
95 114.0 80.6 121.0
132 102.9 71.8 107.6
97 76.7 53.0 79.4





#39

1,2-Dichloropropane

Concen: 11.132 ppbv

RT: 4.334 min Scan# 1

Delta R.T. 0.016 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

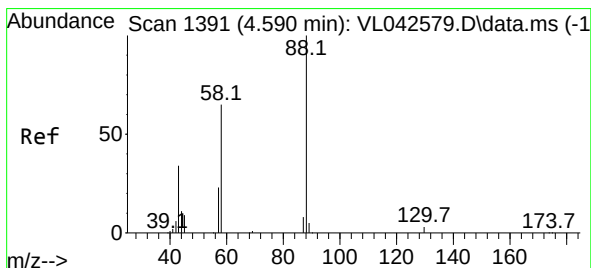
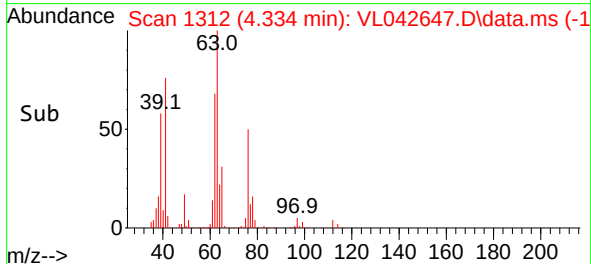
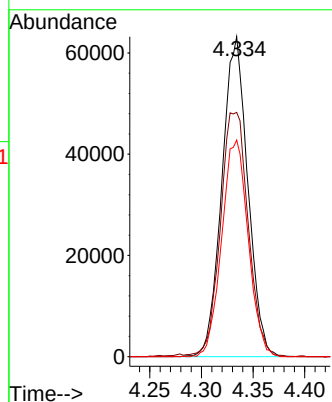
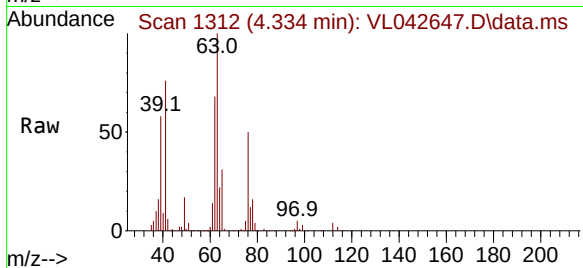
Tgt Ion: 63 Resp: 109999

Ion Ratio Lower Upper

63 100

41 75.9 61.8 92.6

62 67.7 56.6 85.0



#40

1,4-Dioxane

Concen: 10.484 ppbv

RT: 4.600 min Scan# 1394

Delta R.T. 0.010 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Tgt Ion: 88 Resp: 46358

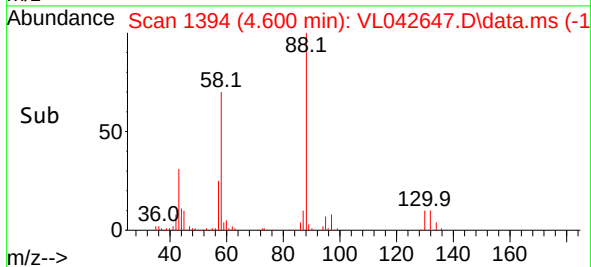
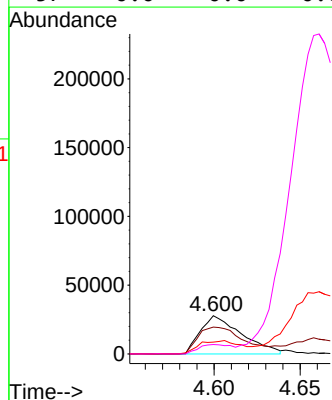
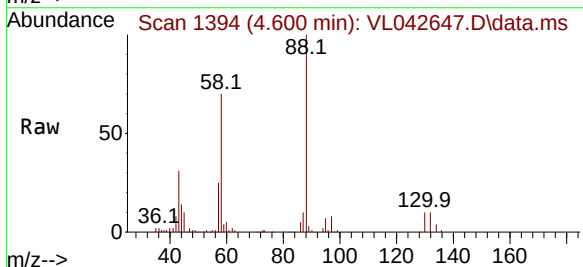
Ion Ratio Lower Upper

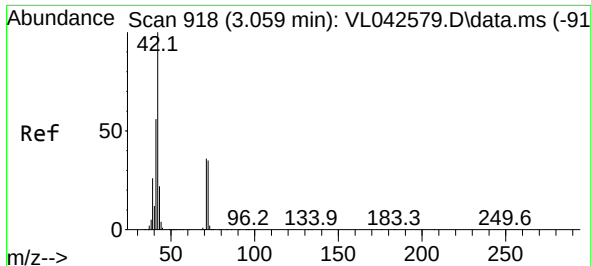
88 100

58 82.3 55.8 83.8

43 34.5 24.8 37.2

57 0.0 0.0 0.0

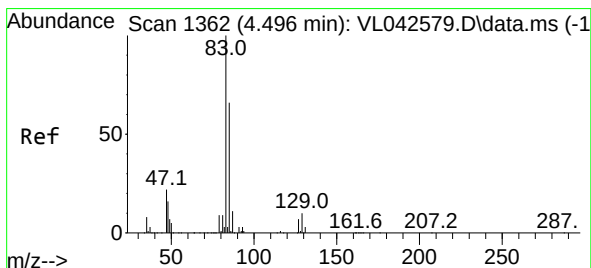
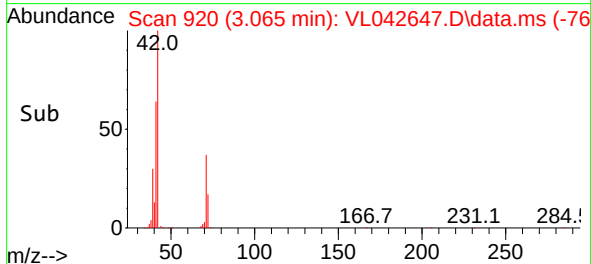
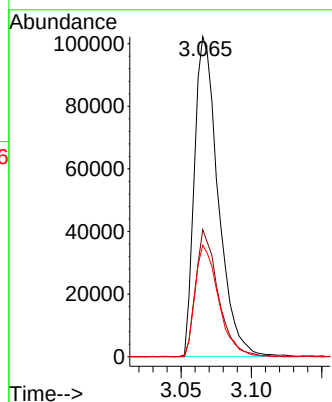
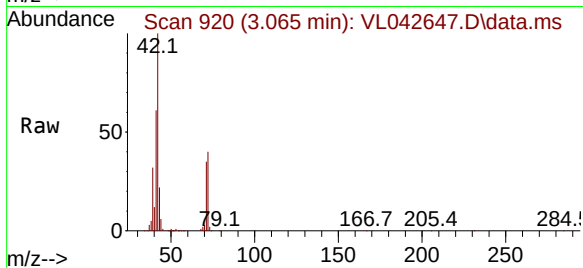




#41
Tetrahydrofuran
Concen: 10.561 ppbv
RT: 3.065 min Scan# 918
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

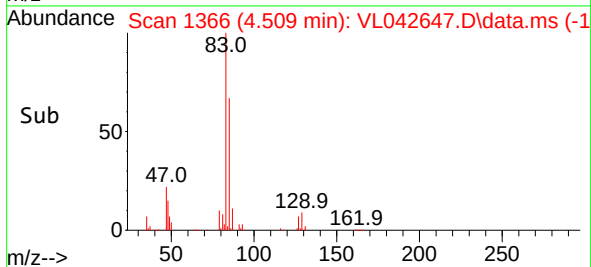
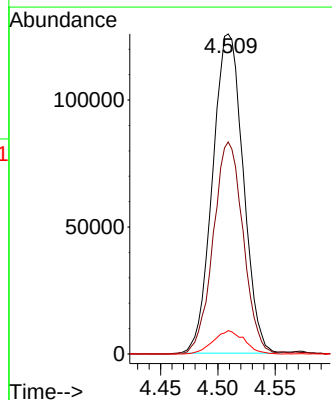
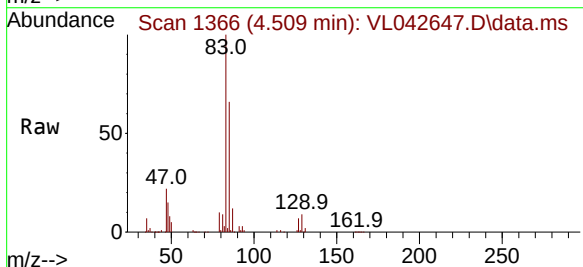
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

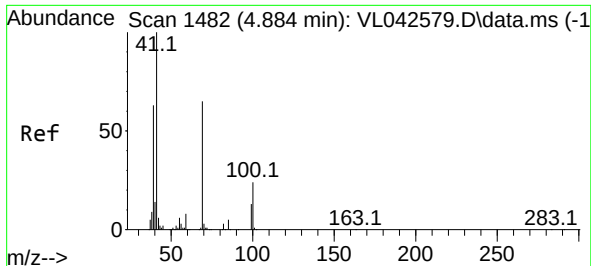
Tgt Ion: 42 Resp: 119620
Ion Ratio Lower Upper
42 100
72 37.5 28.9 43.3
71 34.5 28.5 42.7



#42
Bromodichloromethane
Concen: 12.378 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 83 Resp: 233466
Ion Ratio Lower Upper
83 100
85 66.0 52.7 79.1
127 7.3 5.8 8.6

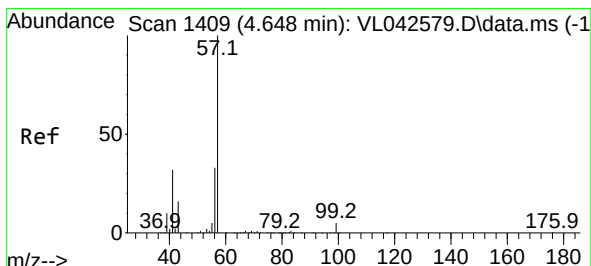
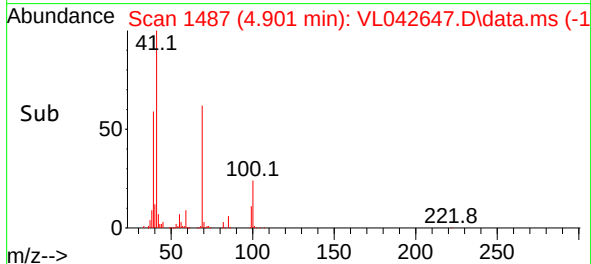
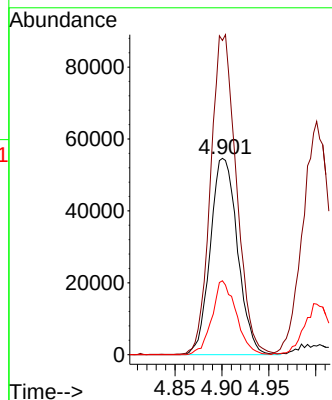
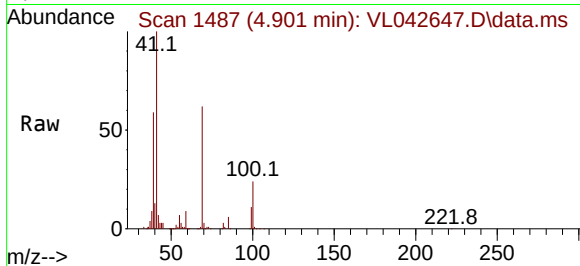




#43
Methyl Methacrylate
Concen: 10.611 ppbv
RT: 4.901 min Scan# 1487
Delta R.T. 0.016 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

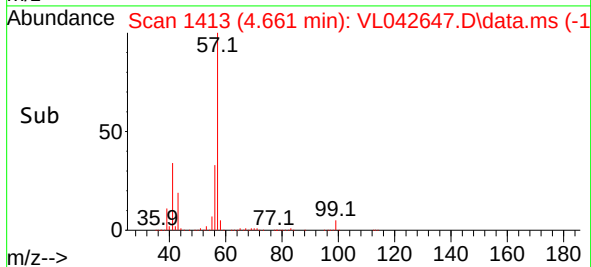
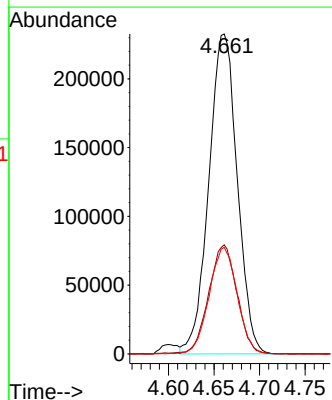
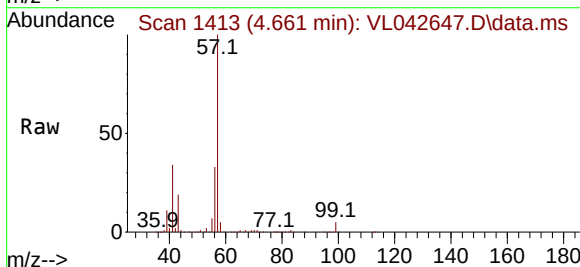
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

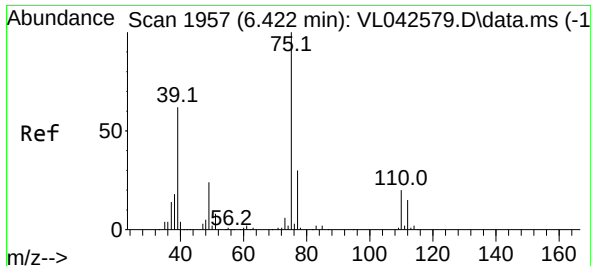
Tgt Ion: 69 Resp: 110041
Ion Ratio Lower Upper
69 100
41 155.0 124.6 187.0
100 33.6 29.9 44.9



#44
2,2,4-Trimethylpentane
Concen: 11.047 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 57 Resp: 504893
Ion Ratio Lower Upper
57 100
41 34.2 26.1 39.1
56 33.0 25.9 38.9

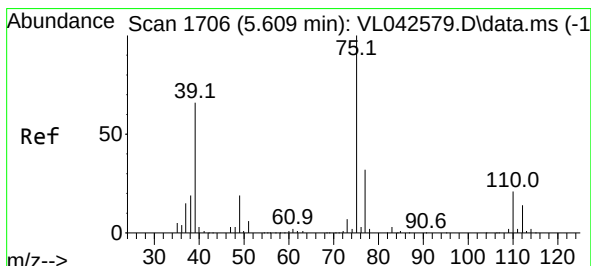
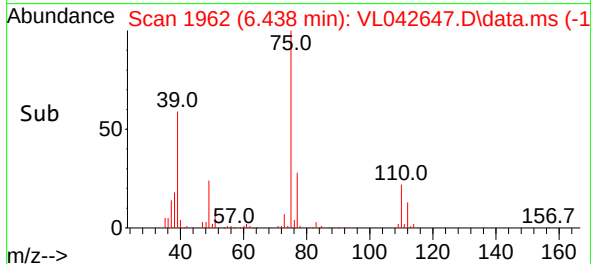
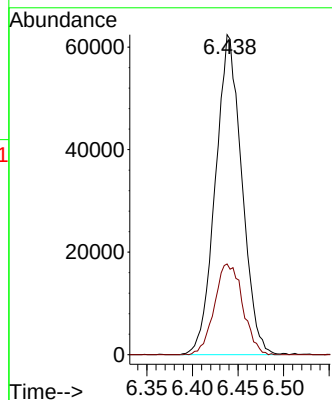
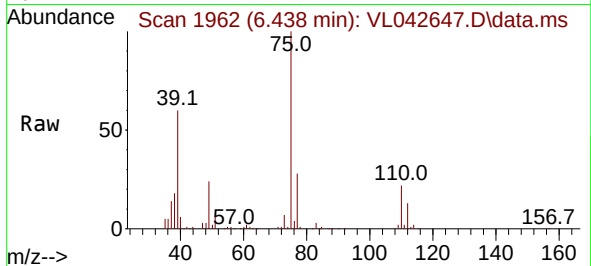




#45
 t-1,3-Dichloropropene
 Concen: 10.611 ppbv
 RT: 6.438 min Scan# 1957
 Delta R.T. 0.016 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

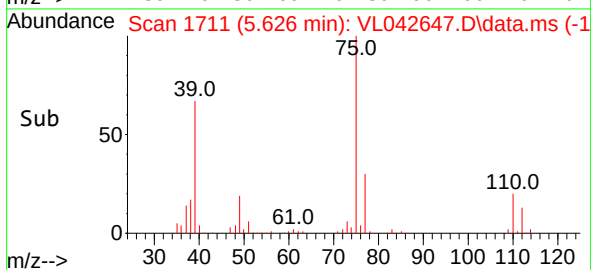
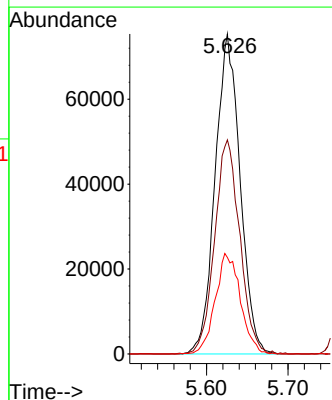
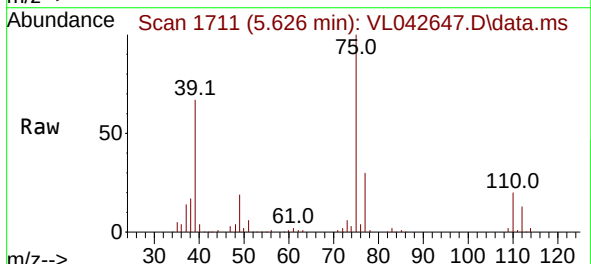
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

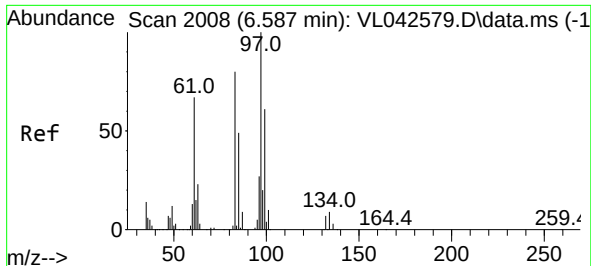
Tgt Ion: 75 Resp: 125932
 Ion Ratio Lower Upper
 75 100
 77 28.3 24.2 36.2



#46
 cis-1,3-Dichloropropene
 Concen: 10.789 ppbv
 RT: 5.626 min Scan# 1711
 Delta R.T. 0.016 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

Tgt Ion: 75 Resp: 160436
 Ion Ratio Lower Upper
 75 100
 39 66.7 52.7 79.1
 77 30.1 25.8 38.8

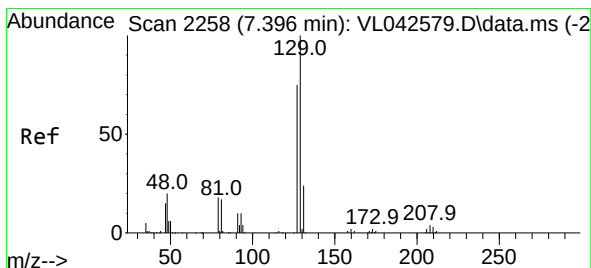
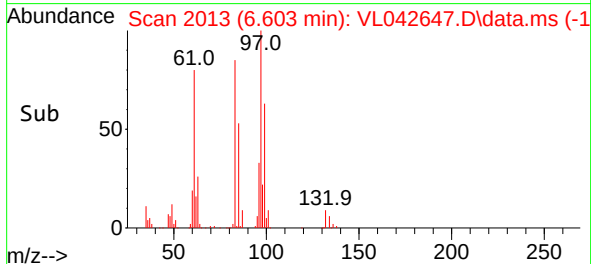
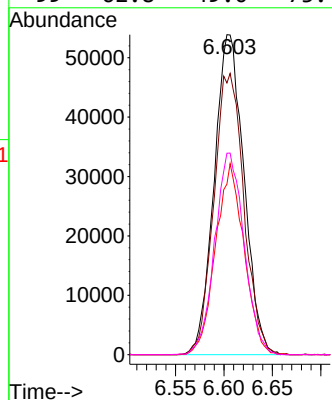
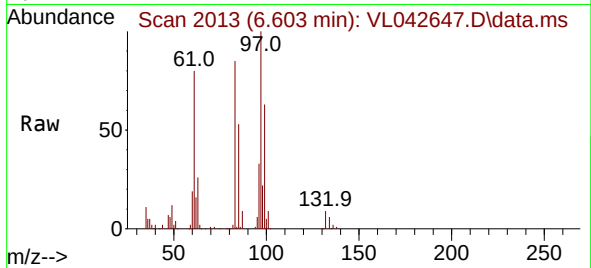




#47
1,1,2-Trichloroethane
Concen: 11.274 ppbv
RT: 6.603 min Scan# 20
Delta R.T. 0.016 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

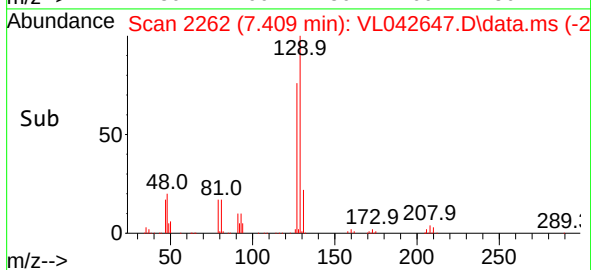
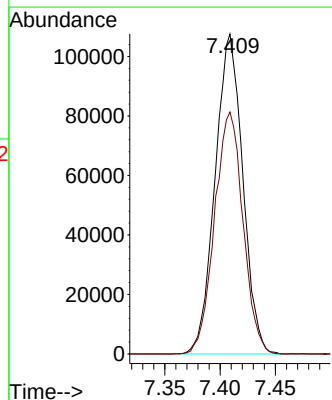
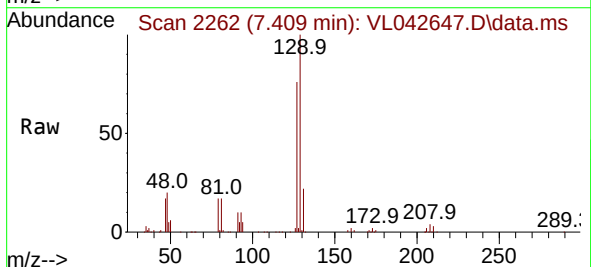
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

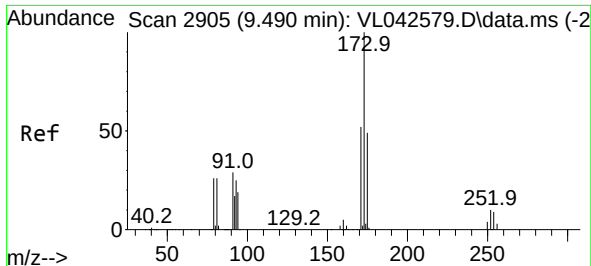
Tgt Ion: 97 Resp: 115320
Ion Ratio Lower Upper
97 100
83 84.8 63.9 95.9
85 53.2 39.2 58.8
99 62.8 49.0 73.4



#48
Dibromochloromethane
Concen: 11.424 ppbv
RT: 7.409 min Scan# 2262
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 129 Resp: 187063
Ion Ratio Lower Upper
129 100
127 77.7 39.0 116.9





#49

Bromoform

Concen: 11.897 ppbv

RT: 9.500 min Scan# 2905

Delta R.T. 0.010 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

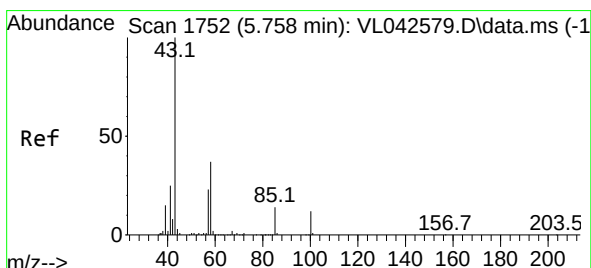
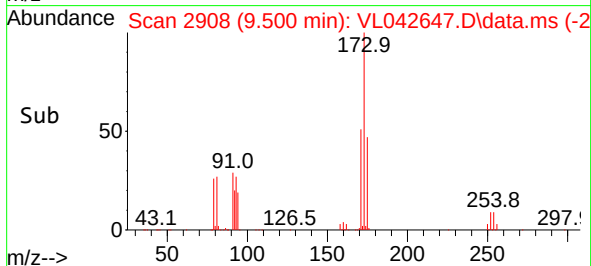
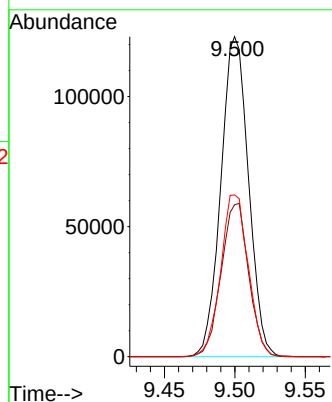
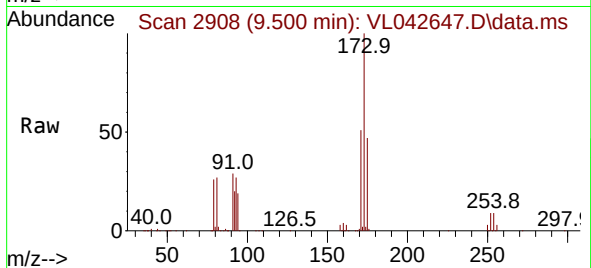
Tgt Ion:173 Resp: 168088

Ion Ratio Lower Upper

173 100

175 47.8 38.7 58.1

171 50.6 41.2 61.8



#50

4-Methyl-2-Pentanone

Concen: 11.136 ppbv

RT: 5.774 min Scan# 1757

Delta R.T. 0.016 min

Lab File: VL042647.D

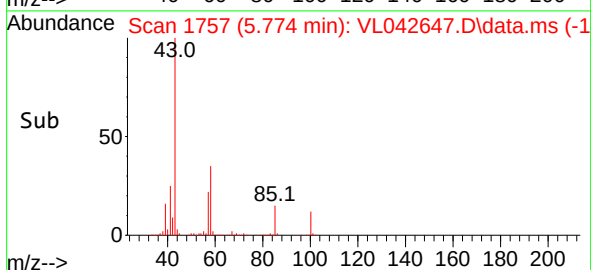
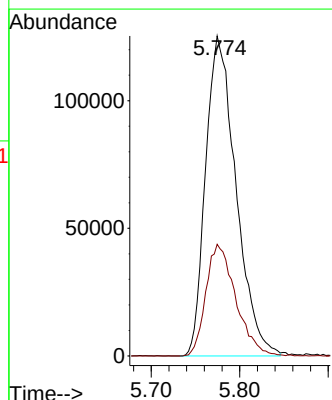
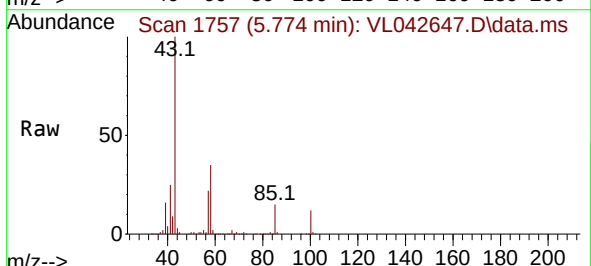
Acq: 19 Jun 2025 08:56

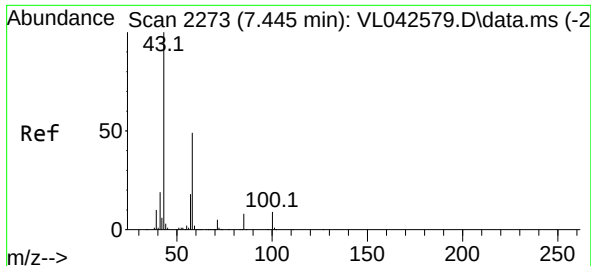
Tgt Ion: 43 Resp: 298895

Ion Ratio Lower Upper

43 100

58 34.3 28.3 42.5

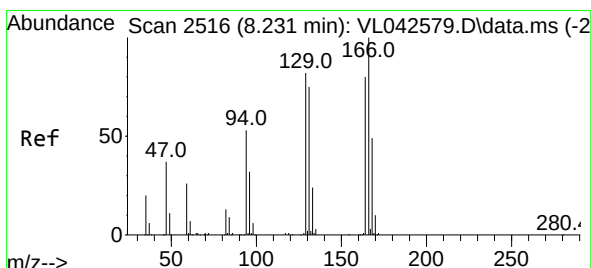
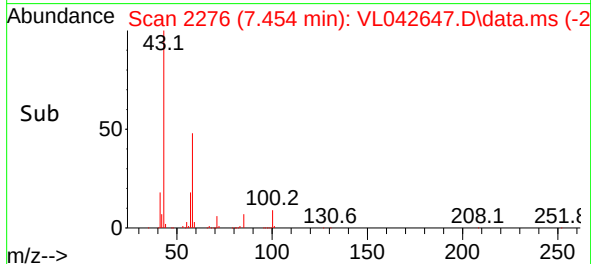
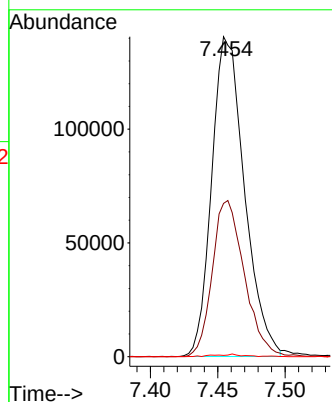
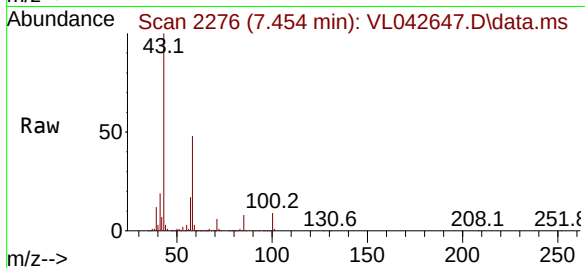




#51
2-Hexanone
Concen: 11.175 ppbv
RT: 7.454 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

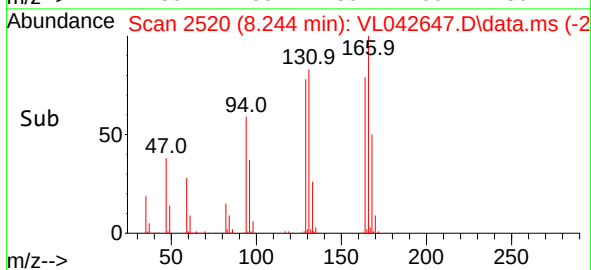
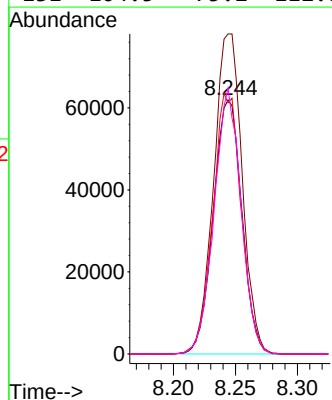
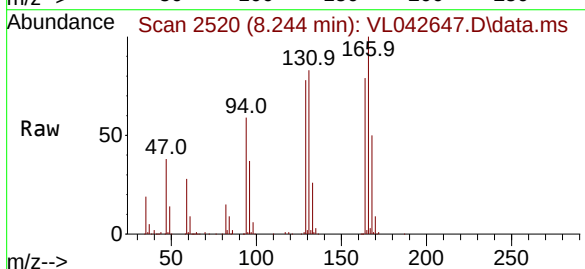
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

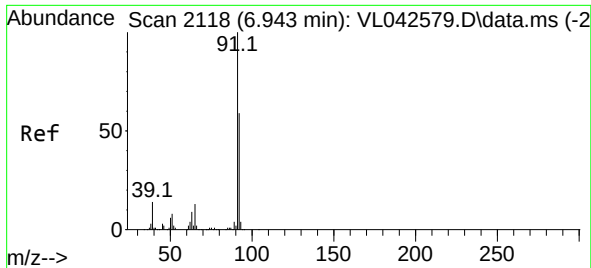
Tgt Ion: 43 Resp: 237889
Ion Ratio Lower Upper
43 100
58 48.0 39.9 59.9
98 0.8 0.1 0.1#



#52
Tetrachloroethene
Concen: 9.974 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 164 Resp: 99591
Ion Ratio Lower Upper
164 100
166 125.9 100.0 150.0
129 98.8 82.2 123.4
131 104.5 75.2 112.8

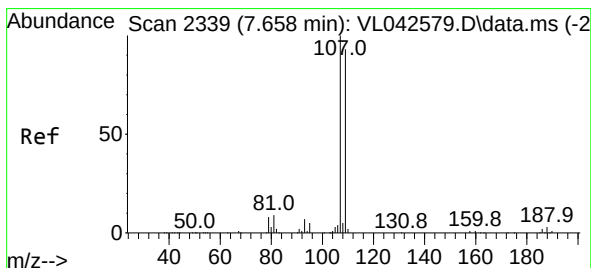
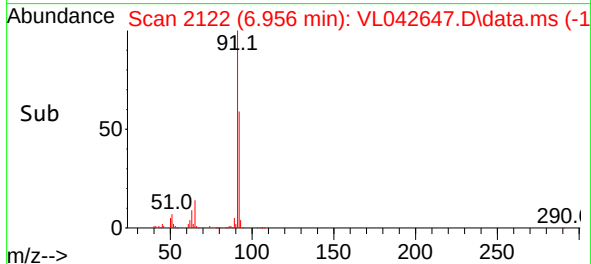
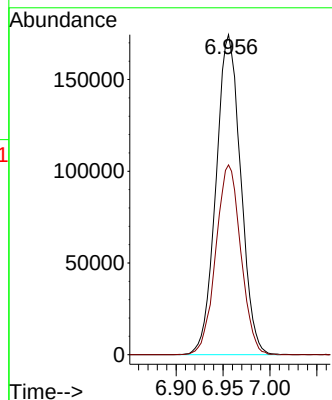
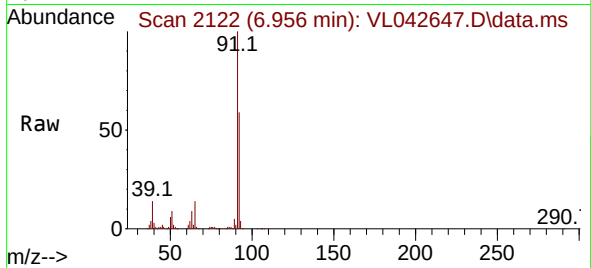




#53
Toluene
Concen: 10.354 ppbv
RT: 6.956 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

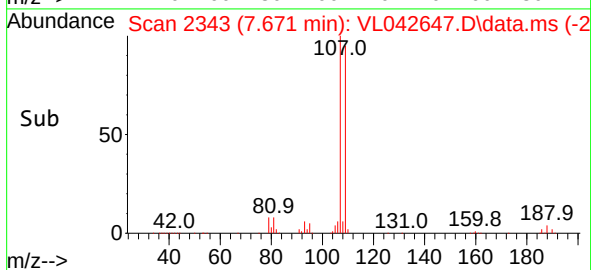
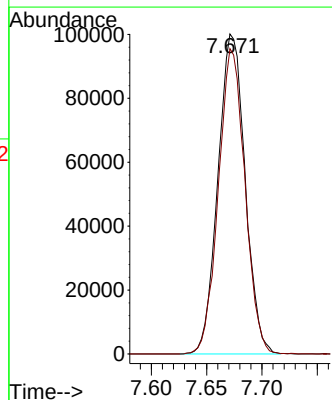
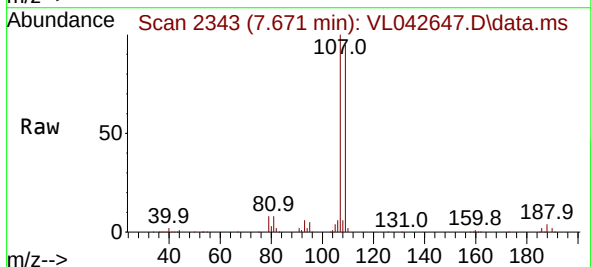
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

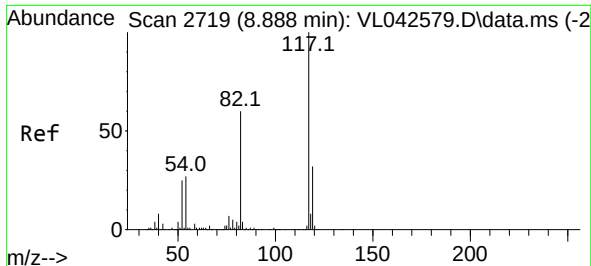
Tgt Ion: 91 Resp: 319753
Ion Ratio Lower Upper
91 100
92 59.9 48.2 72.4



#54
1,2-Dibromoethane
Concen: 11.282 ppbv
RT: 7.671 min Scan# 2343
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 107 Resp: 170816
Ion Ratio Lower Upper
107 100
109 95.4 74.3 111.5

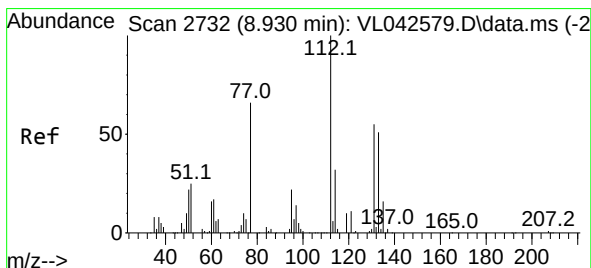
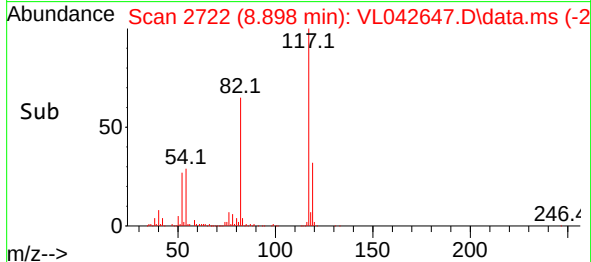
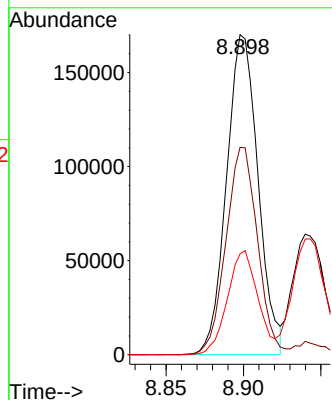
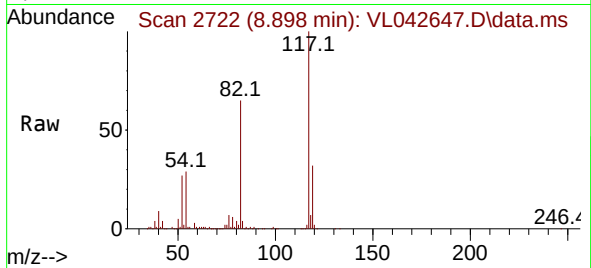




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

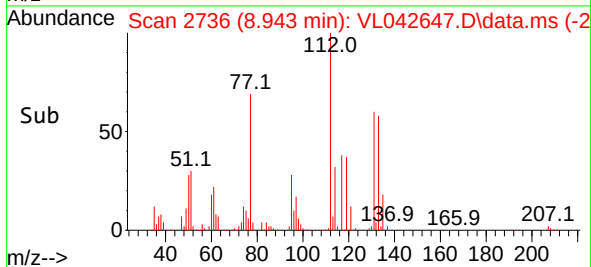
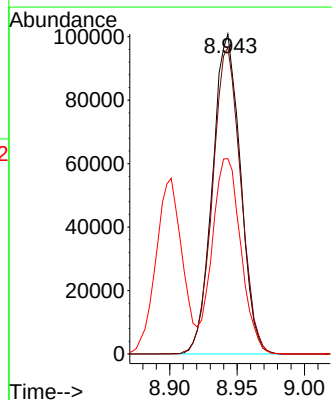
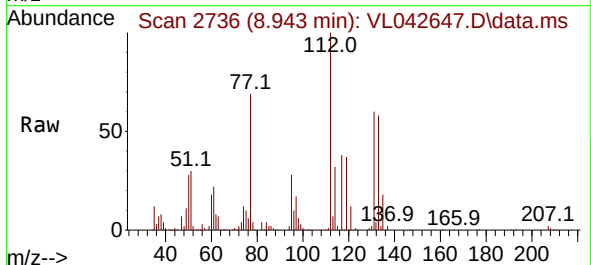
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

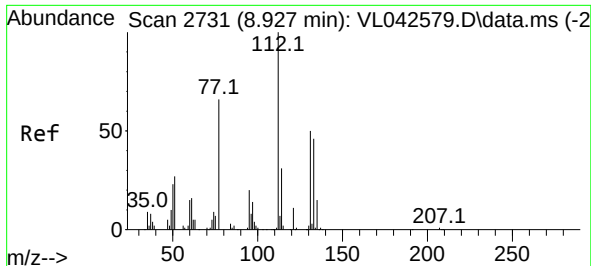
Tgt Ion:117 Resp: 241435
Ion Ratio Lower Upper
117 100
82 68.5 51.2 76.8
119 31.6 26.3 39.5



#56
1,1,1,2-Tetrachloroethane
Concen: 11.959 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion:131 Resp: 145178
Ion Ratio Lower Upper
131 100
133 96.9 75.0 112.6
119 61.2 50.8 76.2

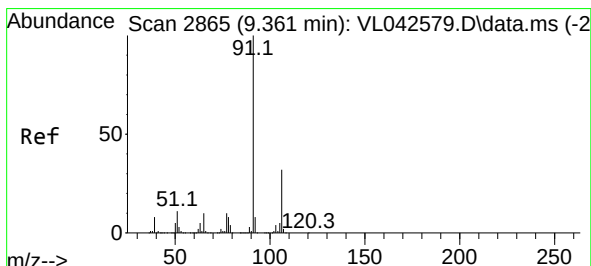
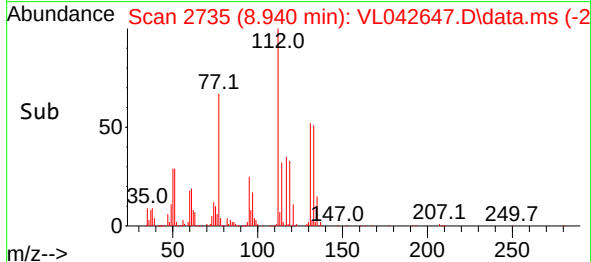
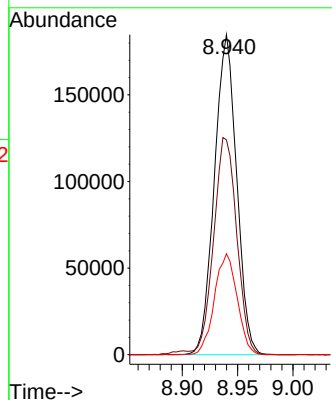
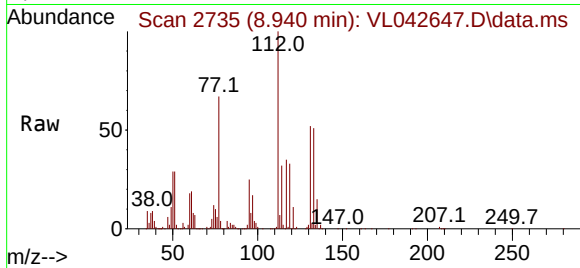




#57
Chlorobenzene
Concen: 11.034 ppbv
RT: 8.940 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

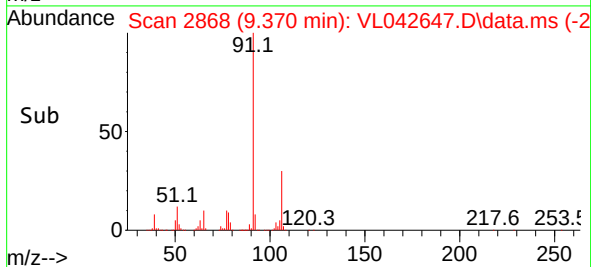
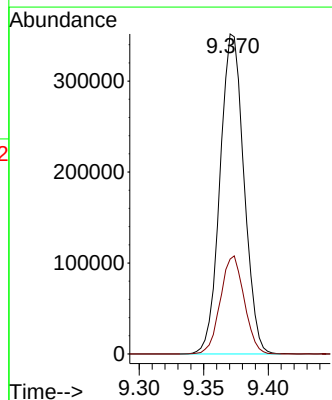
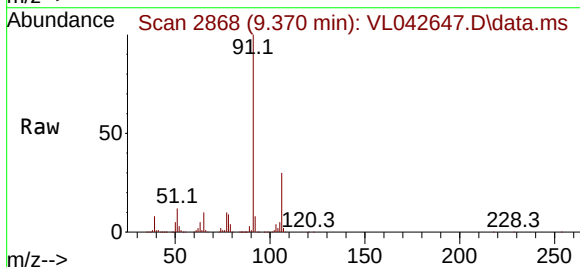
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

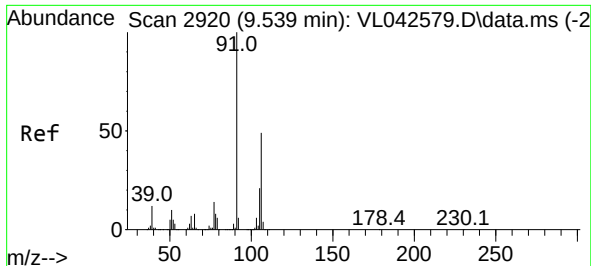
Tgt Ion:112 Resp: 258681
Ion Ratio Lower Upper
112 100
77 67.1 53.5 80.3
114 31.6 27.8 34.0



#58
Ethyl Benzene
Concen: 11.070 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 91 Resp: 453357
Ion Ratio Lower Upper
91 100
106 29.7 25.9 38.9





#59

m/p-Xylene

Concen: 12.373 ppbv

RT: 9.548 min Scan# 2920

Delta R.T. 0.010 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

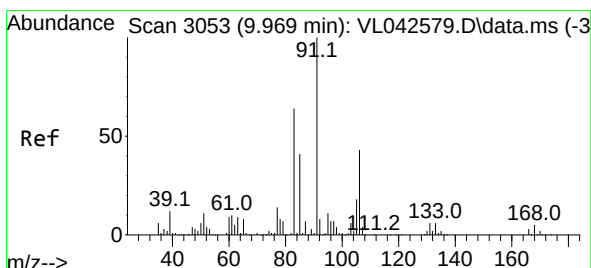
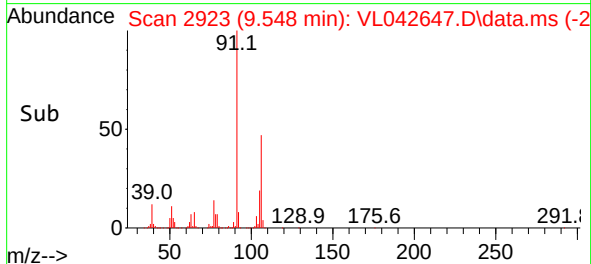
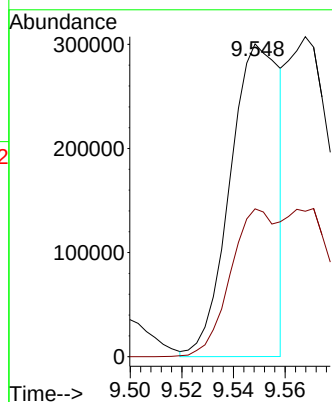
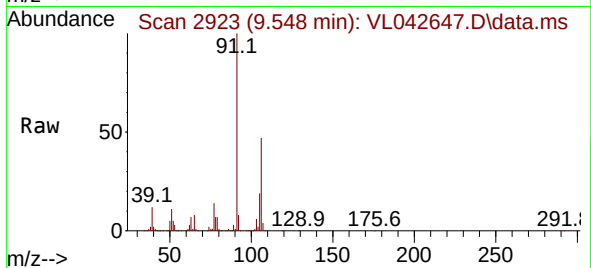
VSTDCCC010

Tgt Ion: 91 Resp: 398756

Ion Ratio Lower Upper

91 100

106 0.0 38.8 58.2#



#60

o-Xylene

Concen: 11.756 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. 0.010 min

Lab File: VL042647.D

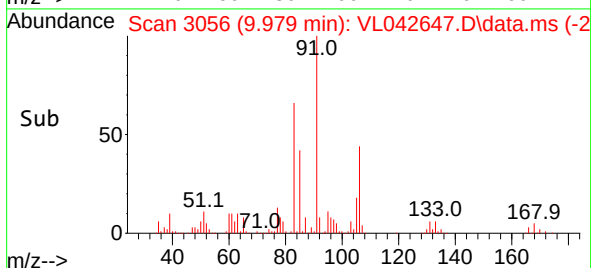
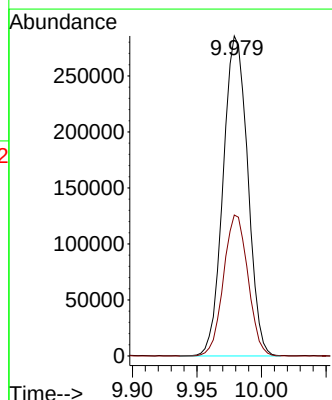
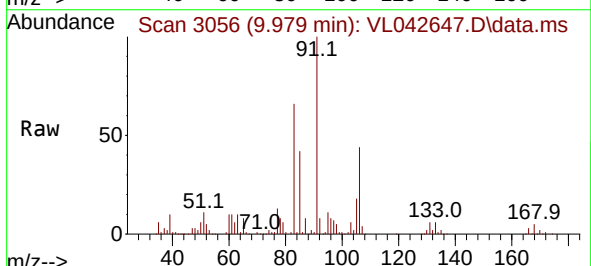
Acq: 19 Jun 2025 08:56

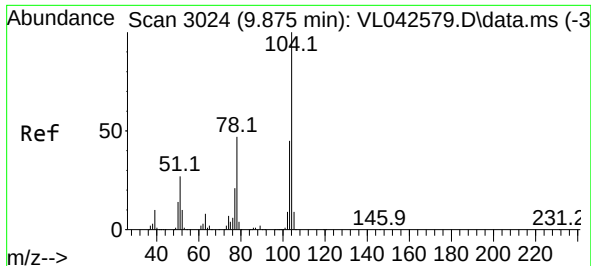
Tgt Ion: 91 Resp: 377860

Ion Ratio Lower Upper

91 100

106 43.9 22.9 68.5

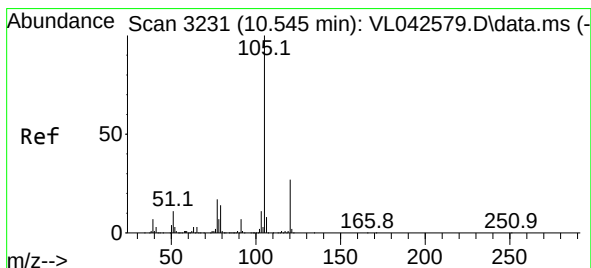
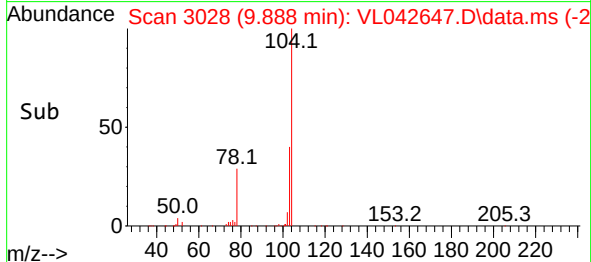
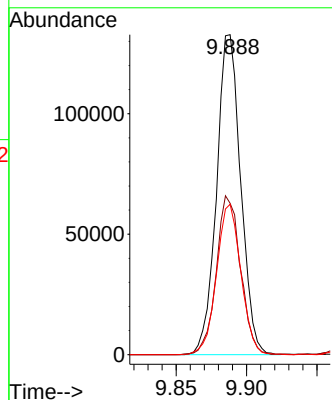
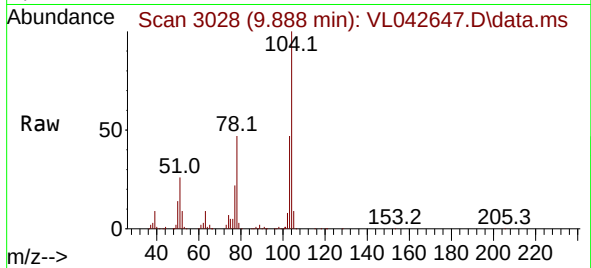




#61
Styrene
Concen: 10.422 ppbv
RT: 9.888 min Scan# 3024
Delta R.T. 0.013 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

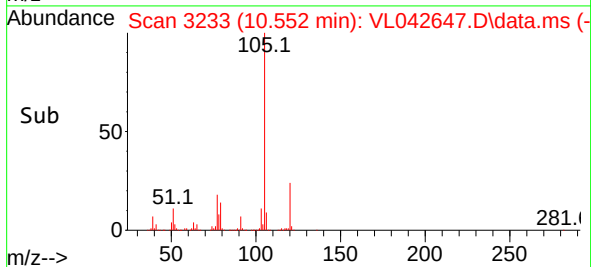
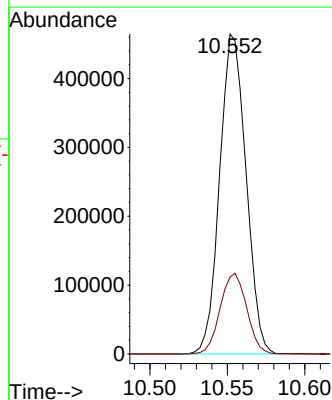
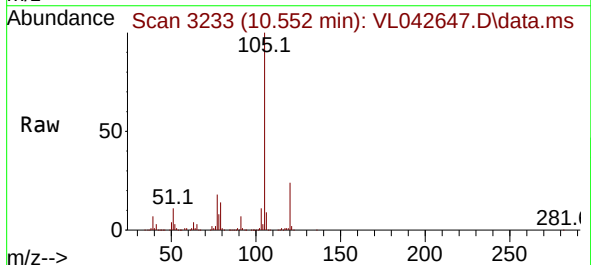
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

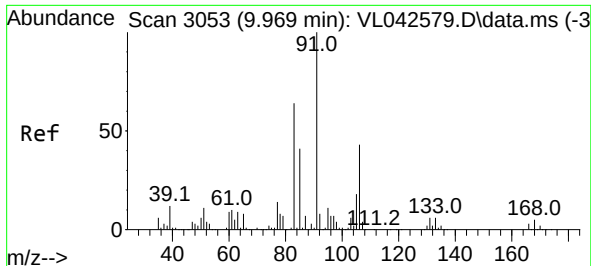
Tgt Ion:104 Resp: 158381
Ion Ratio Lower Upper
104 100
78 49.9 38.2 57.4
103 47.4 36.7 55.1



#62
Isopropylbenzene
Concen: 11.551 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. 0.007 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion:105 Resp: 548530
Ion Ratio Lower Upper
105 100
120 25.4 20.9 31.3

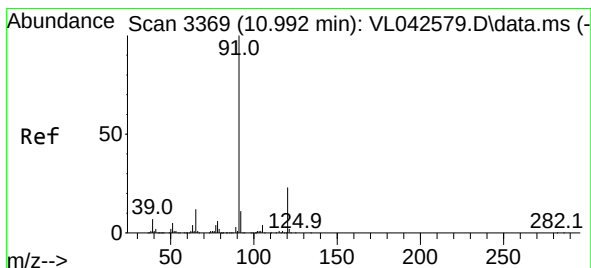
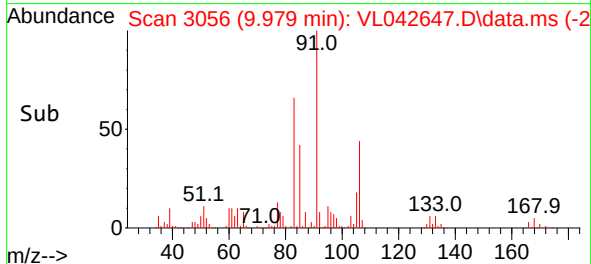
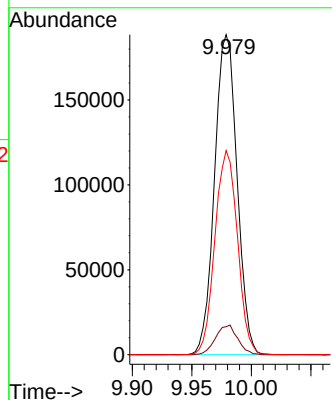
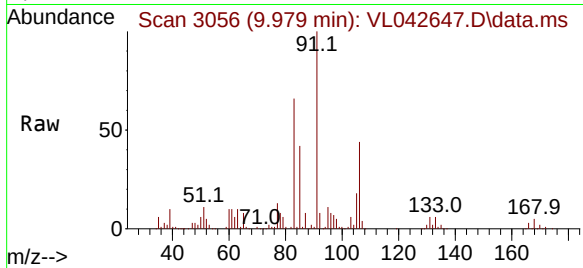




#63
1,1,2,2-Tetrachloroethane
Concen: 12.106 ppbv
RT: 9.979 min Scan# 3053
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

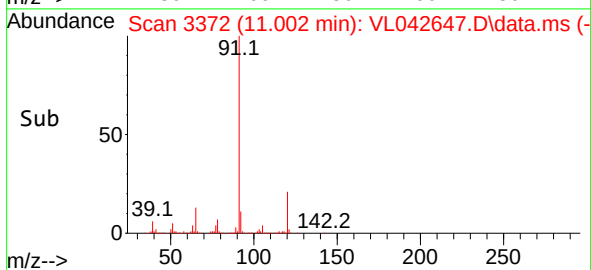
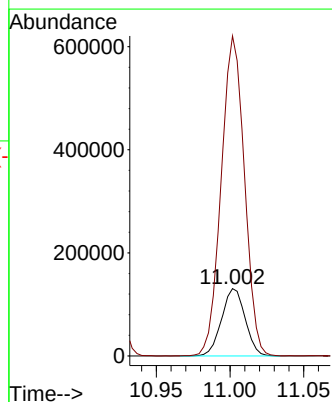
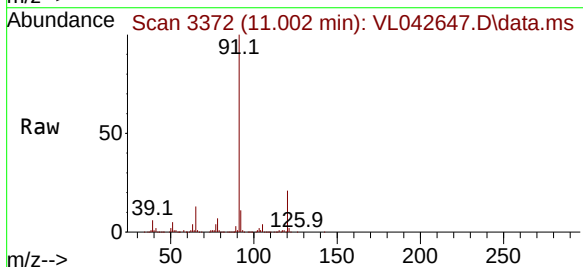
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

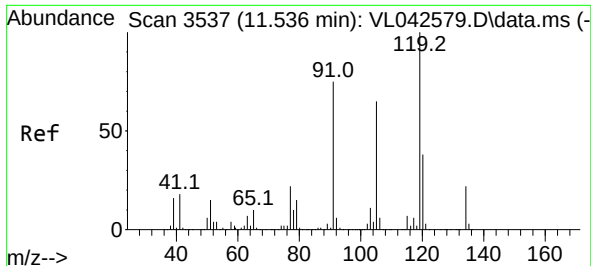
Tgt Ion: 83 Resp: 247429
Ion Ratio Lower Upper
83 100
131 9.1 4.8 14.4
85 63.9 32.5 97.4



#64
n-propylbenzene
Concen: 11.407 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion:120 Resp: 145207
Ion Ratio Lower Upper
120 100
91 469.9 363.0 544.6

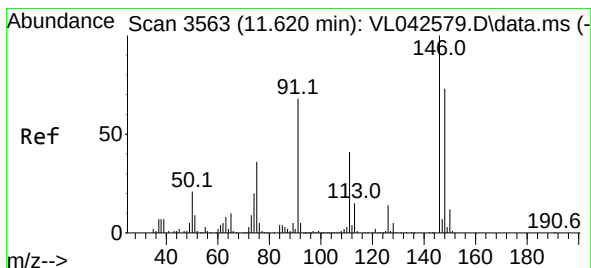
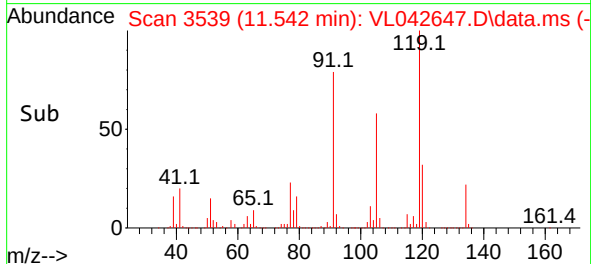
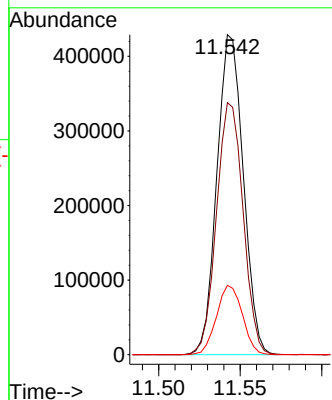
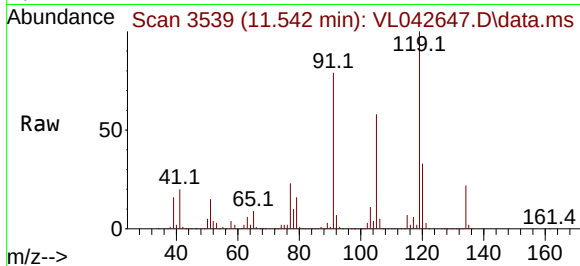




#65
tert-Butylbenzene
Concen: 11.202 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.007 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

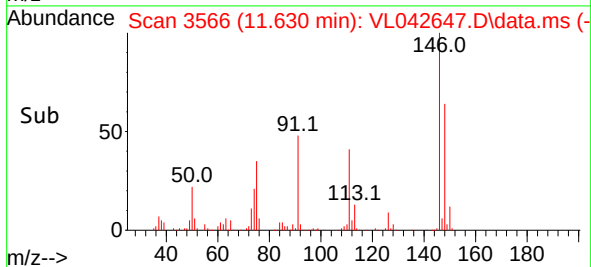
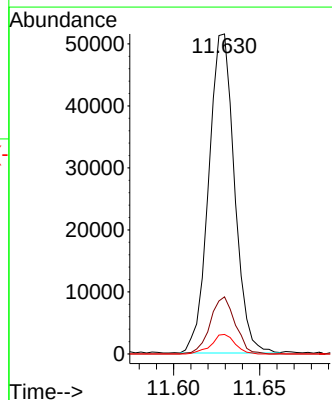
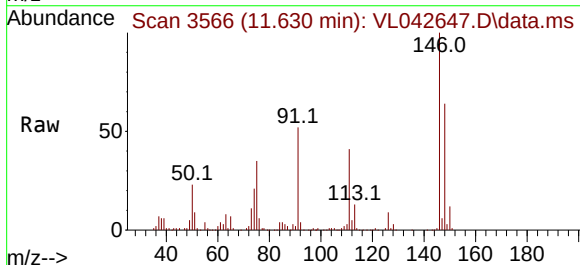
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

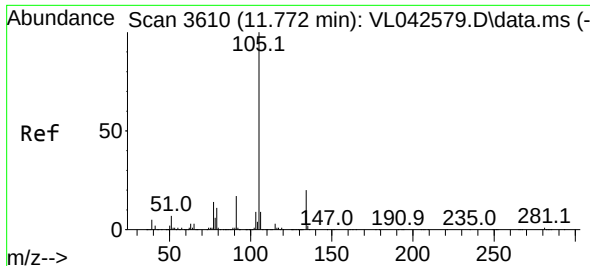
Tgt Ion:119 Resp: 482745
Ion Ratio Lower Upper
119 100
91 79.5 61.1 91.7
134 21.2 17.4 26.2



#66
Benzyl Chloride
Concen: 9.674 ppbv
RT: 11.630 min Scan# 3566
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 91 Resp: 53662
Ion Ratio Lower Upper
91 100
126 17.3 15.1 22.7
128 5.7 5.0 7.6

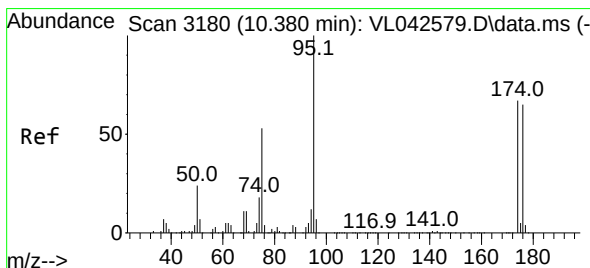
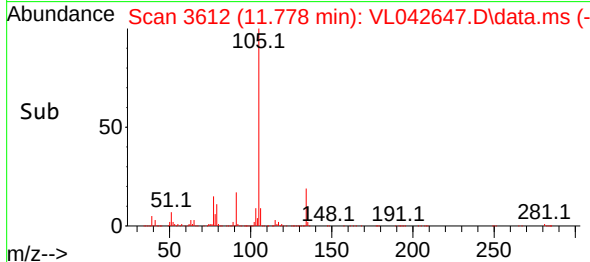
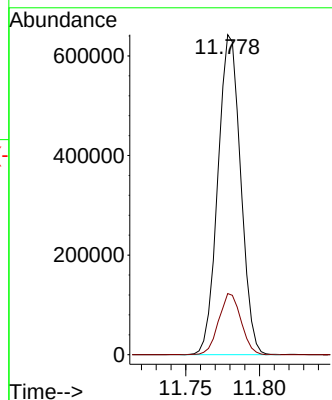
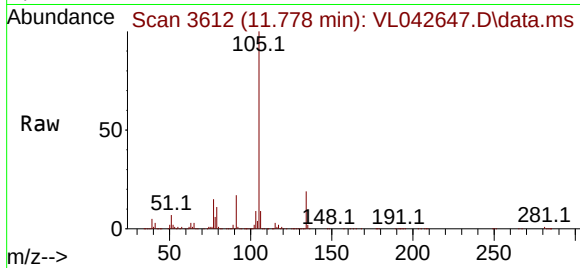




#67
 sec-Butylbenzene
 Concen: 11.398 ppbv
 RT: 11.778 min Scan# 3612
 Delta R.T. 0.006 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

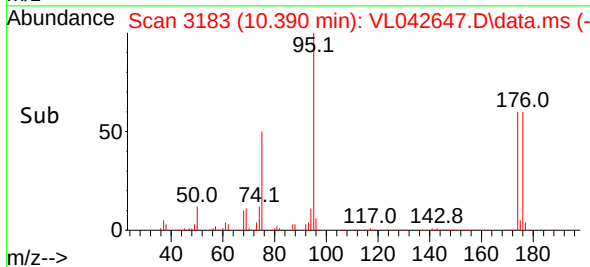
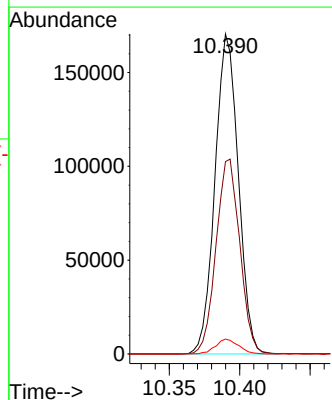
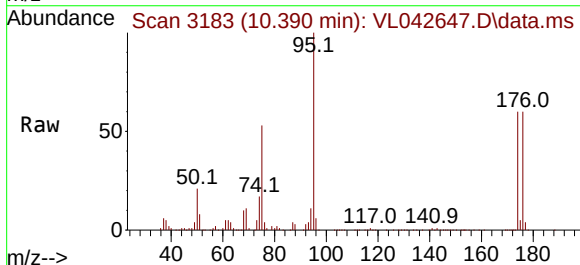
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

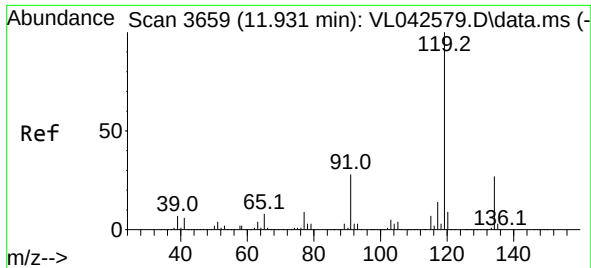
Tgt Ion:105 Resp: 690565
 Ion Ratio Lower Upper
 105 100
 134 18.8 15.8 23.6



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.861 ppbv
 RT: 10.390 min Scan# 3183
 Delta R.T. 0.010 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

Tgt Ion: 95 Resp: 196559
 Ion Ratio Lower Upper
 95 100
 174 62.1 53.1 79.7
 175 4.6 4.2 6.2

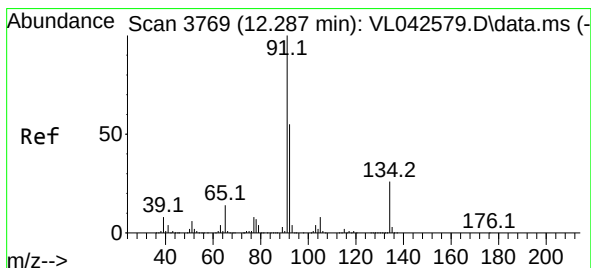
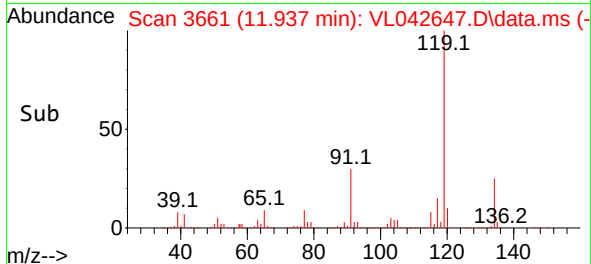
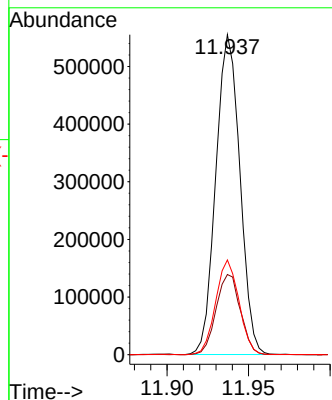
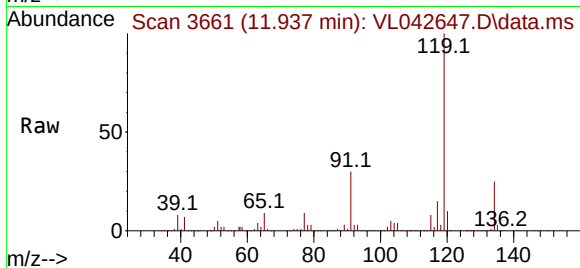




#69
 p-Isopropyltoluene
 Concen: 11.219 ppbv
 RT: 11.937 min Scan# 3661
 Delta R.T. 0.006 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

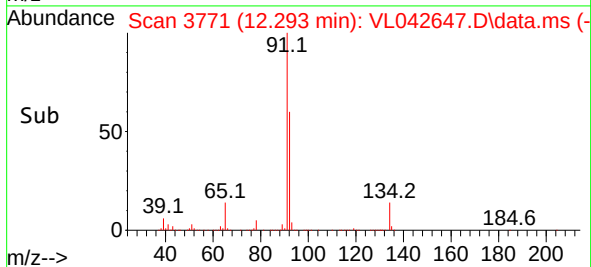
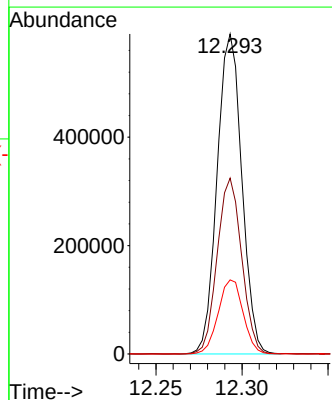
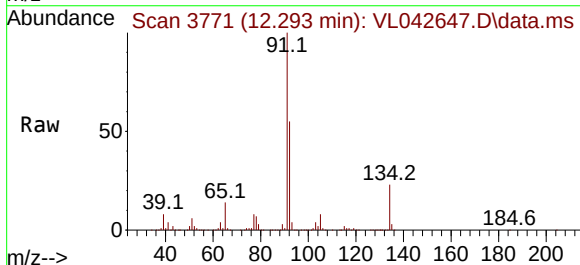
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

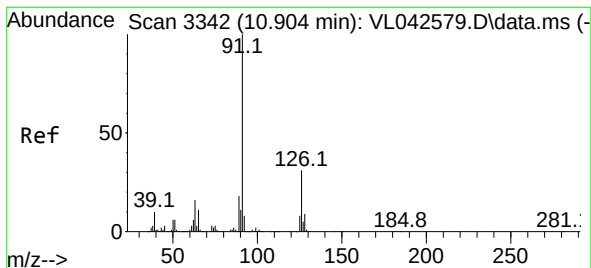
Tgt Ion:119 Resp: 569182
 Ion Ratio Lower Upper
 119 100
 134 25.4 21.1 31.7
 91 28.9 21.9 32.9



#70
 n-Butylbenzene
 Concen: 11.766 ppbv
 RT: 12.293 min Scan# 3771
 Delta R.T. 0.007 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

Tgt Ion: 91 Resp: 589246
 Ion Ratio Lower Upper
 91 100
 92 54.5 44.4 66.6
 134 23.4 20.1 30.1

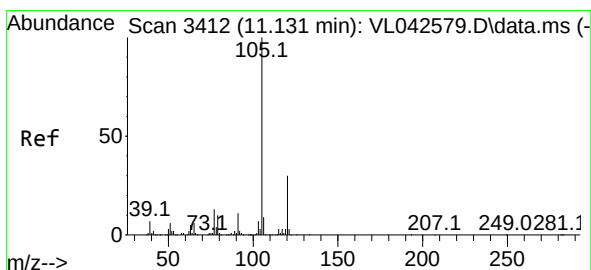
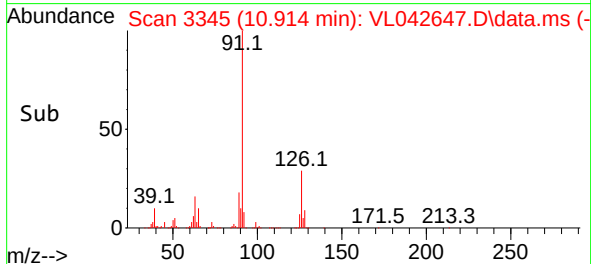
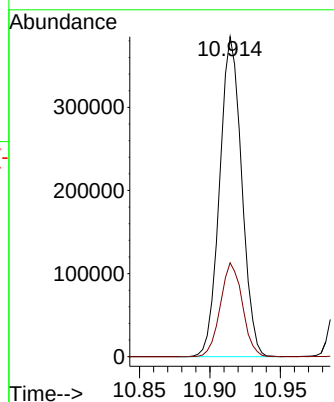
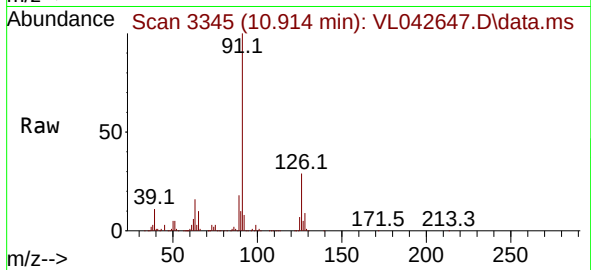




#71
2-Chlorotoluene
Concen: 11.577 ppbv
RT: 10.914 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

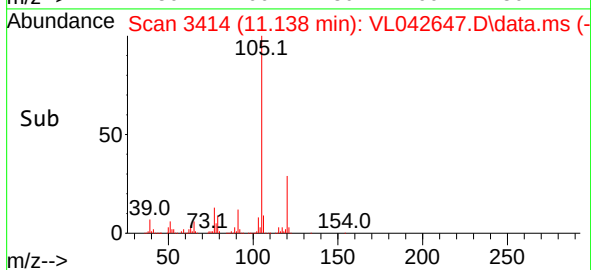
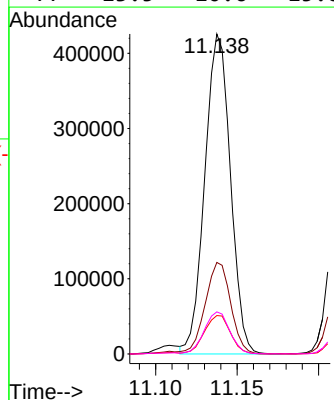
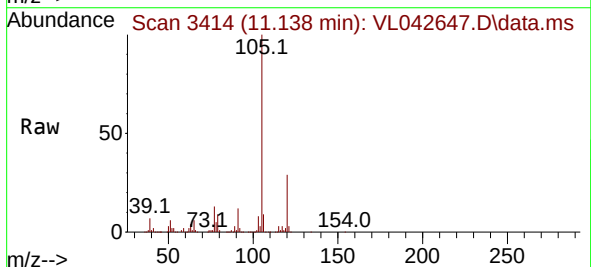
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

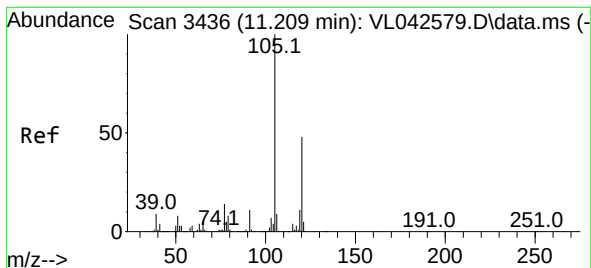
Tgt Ion: 91 Resp: 419351
Ion Ratio Lower Upper
91 100
126 29.3 12.6 50.4



#72
4-Ethyltoluene
Concen: 11.607 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion: 105 Resp: 465148
Ion Ratio Lower Upper
105 100
120 29.2 24.6 36.8
91 12.8 9.6 14.4
77 13.5 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 11.615 ppbv

RT: 11.215 min Scan# 3436

Delta R.T. 0.007 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Instrument :

MSVOA_1

ClientSampleId :

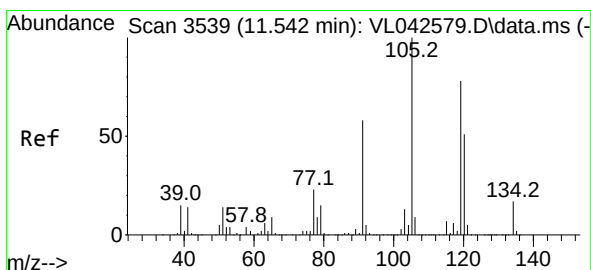
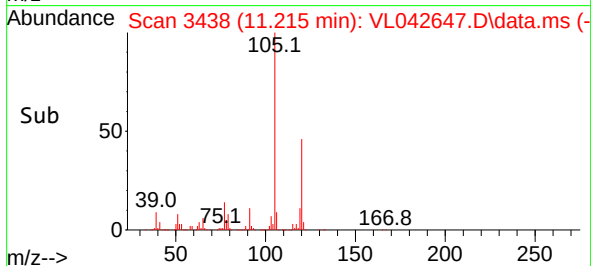
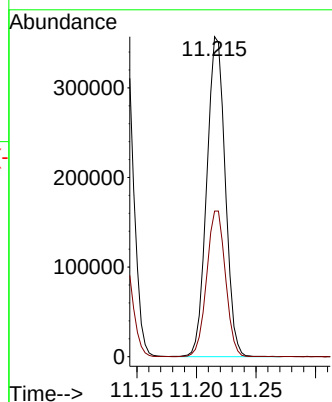
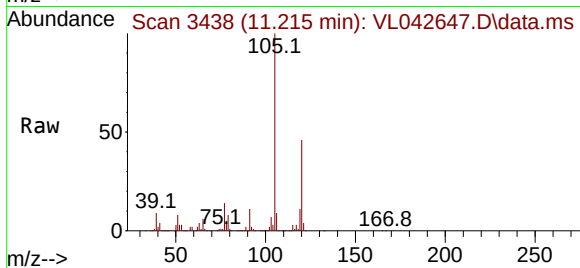
VSTDCCC010

Tgt Ion:105 Resp: 385257

Ion Ratio Lower Upper

105 100

120 45.5 38.8 58.2



#74

1,2,4-Trimethylbenzene

Concen: 11.734 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.007 min

Lab File: VL042647.D

Acq: 19 Jun 2025 08:56

Tgt Ion:105 Resp: 431897

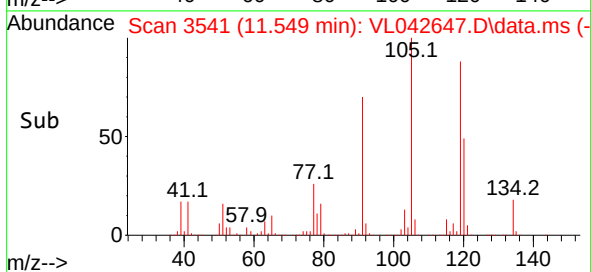
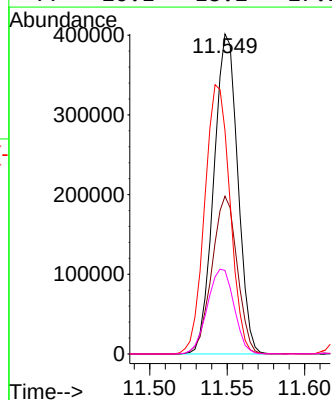
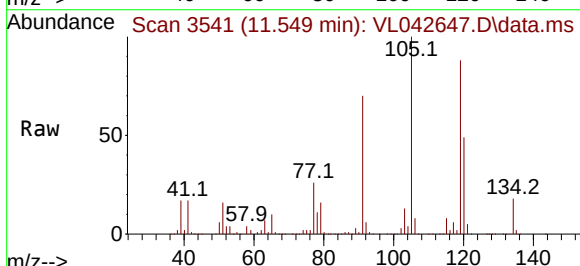
Ion Ratio Lower Upper

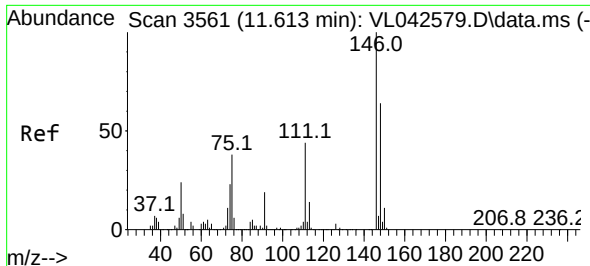
105 100

120 49.3 40.8 61.2

91 69.7 46.8 70.2

77 26.1 18.2 27.2

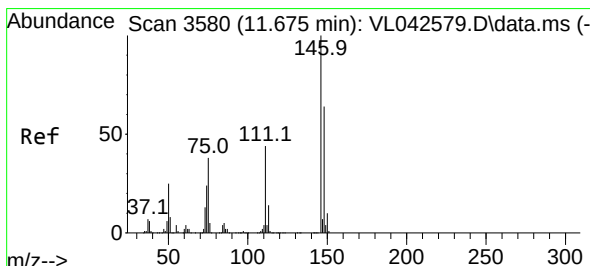
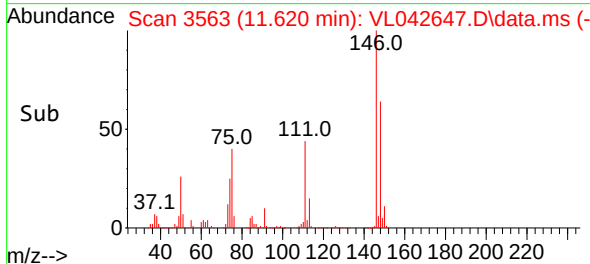
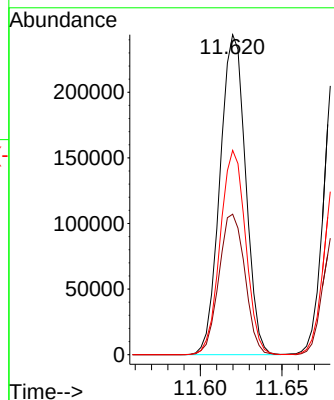
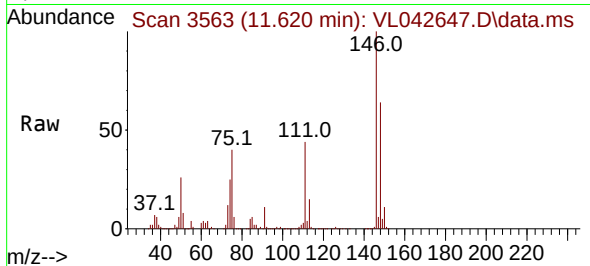




#75
1,3-Dichlorobenzene
Concen: 11.512 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

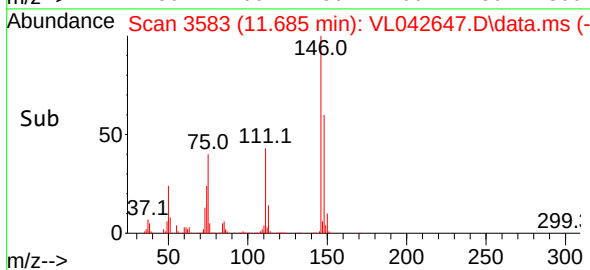
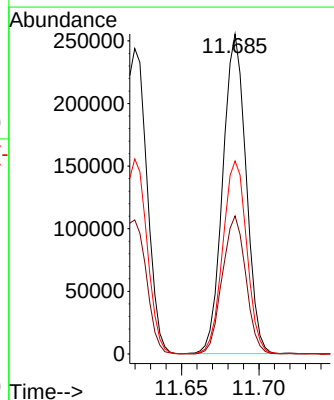
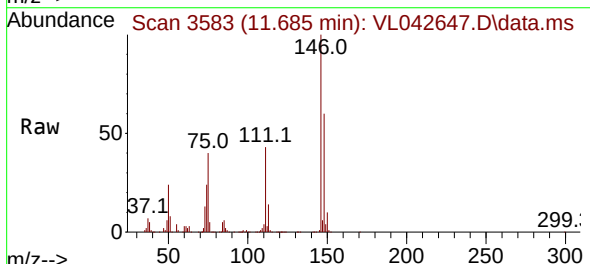
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

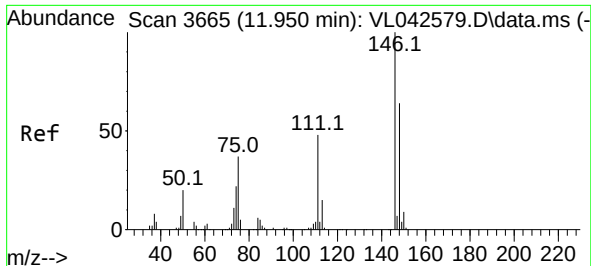
Tgt Ion:146 Resp: 266086
Ion Ratio Lower Upper
146 100
111 44.7 22.4 67.3
148 63.5 32.0 96.2



#76
1,4-Dichlorobenzene
Concen: 11.560 ppbv
RT: 11.685 min Scan# 3583
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion:146 Resp: 266486
Ion Ratio Lower Upper
146 100
111 43.7 21.6 64.8
148 62.3 32.1 96.5

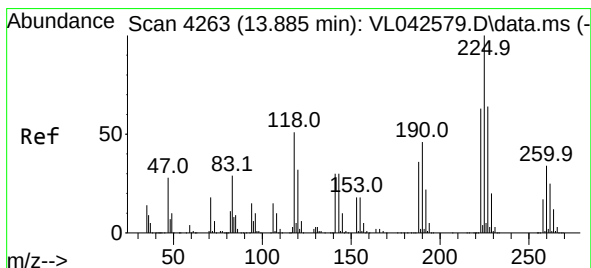
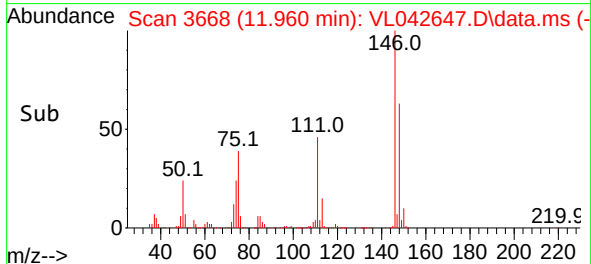
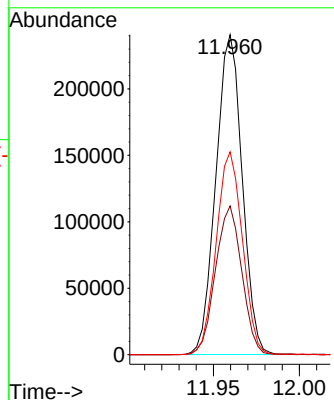
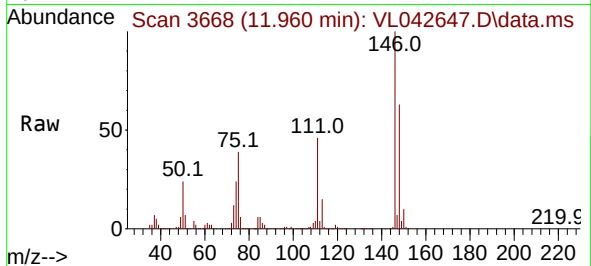




#77
1,2-Dichlorobenzene
Concen: 11.421 ppbv
RT: 11.960 min Scan# 3668
Delta R.T. 0.010 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

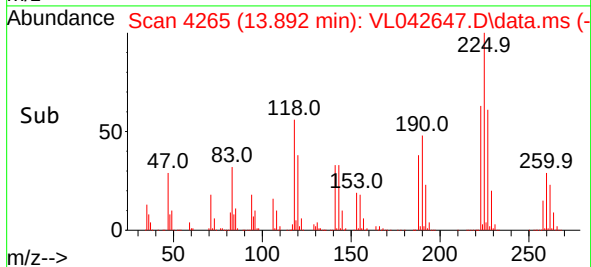
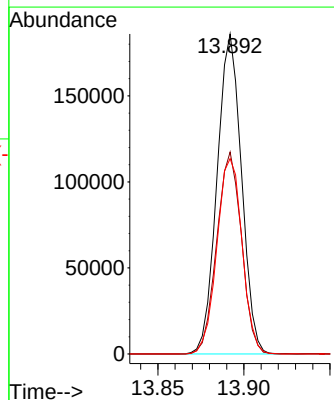
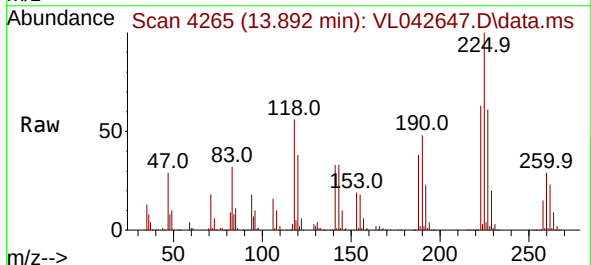
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

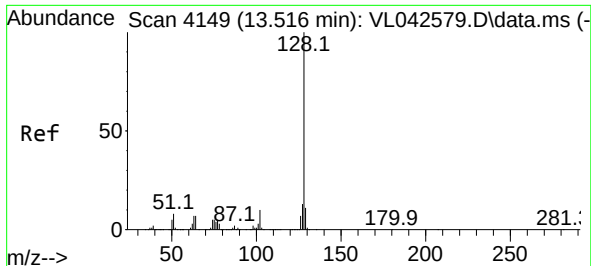
Tgt Ion:146 Resp: 256200
Ion Ratio Lower Upper
146 100
111 46.6 23.1 69.3
148 63.3 32.1 96.3



#78
Hexachloro-1,3-Butadiene
Concen: 9.909 ppbv
RT: 13.892 min Scan# 4265
Delta R.T. 0.007 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion:225 Resp: 183922
Ion Ratio Lower Upper
225 100
223 63.7 50.2 75.4
227 62.8 51.1 76.7

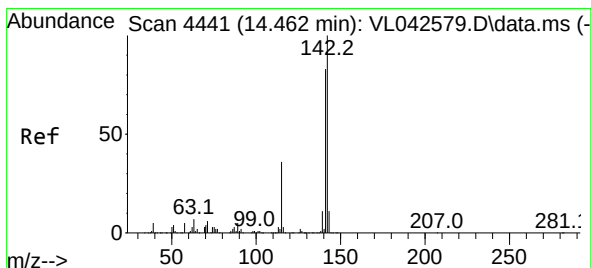
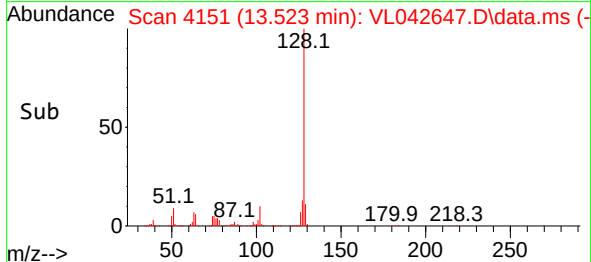
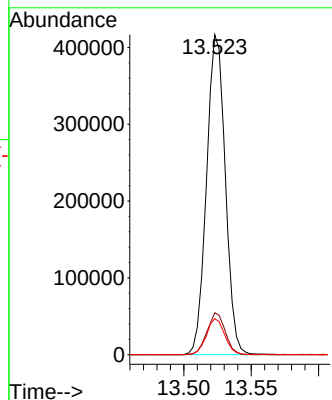
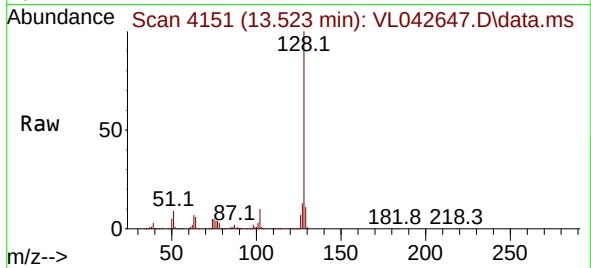




#79
Naphthalene
Concen: 11.640 ppbv
RT: 13.523 min Scan# 4149
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

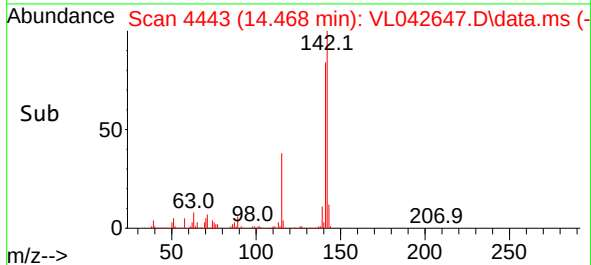
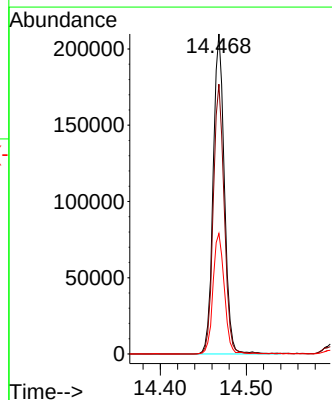
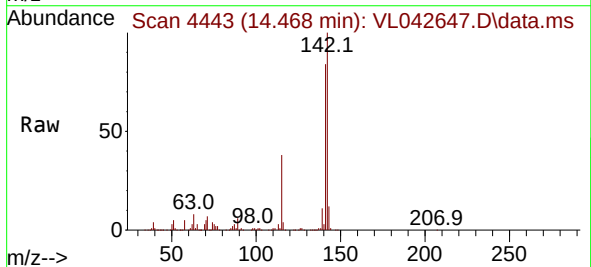
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

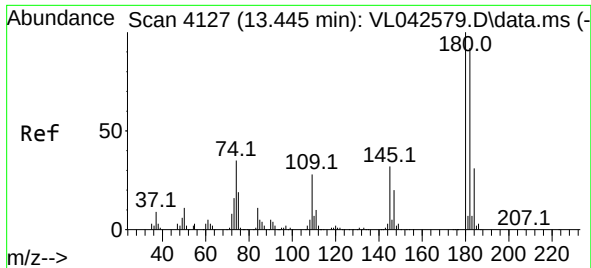
Tgt Ion:128 Resp: 403844
Ion Ratio Lower Upper
128 100
127 13.1 10.2 15.4
129 11.3 8.8 13.2



#80
Naphthalene,2-methyl-
Concen: 12.145 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.006 min
Lab File: VL042647.D
Acq: 19 Jun 2025 08:56

Tgt Ion:142 Resp: 190371
Ion Ratio Lower Upper
142 100
141 82.9 66.2 99.4
115 38.1 28.3 42.5

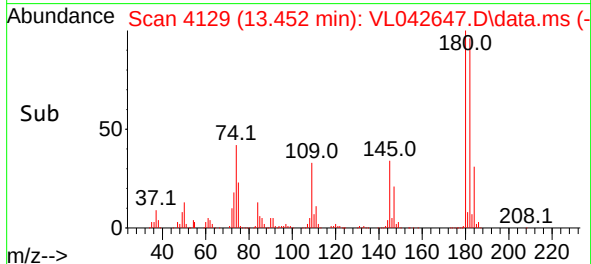
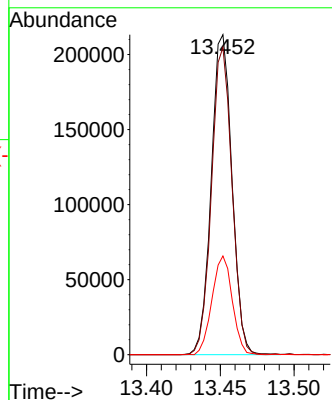
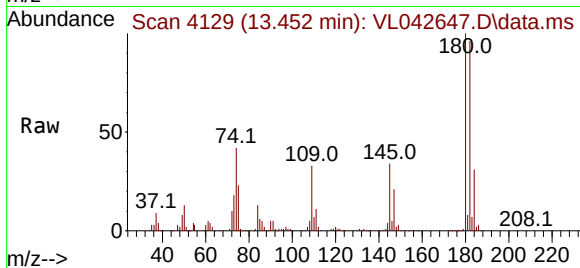




#81
 1,2,4-Trichlorobenzene
 Concen: 10.761 ppbv
 RT: 13.452 min Scan# 41
 Delta R.T. 0.007 min
 Lab File: VL042647.D
 Acq: 19 Jun 2025 08:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion:180 Resp: 208409
 Ion Ratio Lower Upper
 180 100
 182 94.9 75.0 112.4
 184 30.2 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042649.D
 Acq On : 19 Jun 2025 10:26
 Operator : SY/MD
 Sample : VL0619ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABS01

Quant Time: Jun 20 01:35:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	107593	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	277113	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.901	117	244062	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	194374	10.624	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	142090	10.745	ppbv	99
3) Chlorodifluoromethane	1.479	51	178086	9.778	ppbv	95
4) Chloromethane	1.538	50	52647	10.054	ppbv	97
5) Vinyl Chloride	1.586	62	49813	9.338	ppbv	93
6) Bromomethane	1.674	94	24497	9.435	ppbv	93
7) Chloroethane	1.712	64	20025	9.661	ppbv	97
8) Dichlorotetrafluoroethane	1.560	85	115548	10.487	ppbv	98
9) Propene	1.489	41	67588	9.215	ppbv	99
10) Heptane	5.004	43	196137	9.487	ppbv	99
11) Trichlorofluoromethane	1.884	101	148395	12.061	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	114662	11.868	ppbv	96
13) Ethanol	1.729	45	5283	6.044	ppbv	87
14) Bromoethene	1.790	108	40199	11.062	ppbv	96
15) Acetone	1.842	43	118513	9.145	ppbv	97
16) 1,3-Butadiene	1.615	39	56246	9.162	ppbv	97
17) tert-Butyl alcohol	2.046	59	133965	9.922	ppbv	99
18) 1,1-Dichloroethene	2.043	96	48846	10.908	ppbv	95
19) Isopropyl Alcohol	1.894	45	75712	9.772	ppbv	96
20) Methylene Chloride	2.068	84	41003	9.587	ppbv	97
21) Allyl Chloride	2.104	41	91875	10.047	ppbv	95
22) trans-1,2-Dichloroethene	2.350	96	54912	10.978	ppbv	93
23) Vinyl Acetate	2.473	43	216370	12.351	ppbv #	98
24) 1,1-Dichloroethane	2.418	63	110695	10.756	ppbv	100
25) Ethyl Acetate	2.845	43	348113	9.815	ppbv	99
26) Hexane	2.839	57	150708	9.352	ppbv	96
27) Carbon Disulfide	2.159	76	133837	10.818	ppbv #	93
28) Methyl tert-Butyl Ether	2.450	73	73405	11.225	ppbv	99
29) Chloroform	2.858	83	224279	10.702	ppbv	97
30) Cyclohexane	3.871	84	121943	9.127	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	143034	9.703	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	214588	10.022	ppbv	99
34) 2-Butanone	2.567	43	230485	11.663	ppbv	99
35) Carbon Tetrachloride	3.781	117	219519	12.000	ppbv	97
36) Benzene	3.671	78	295149	10.816	ppbv	100
37) 1,2-Dichloroethane	3.230	62	171230	12.625	ppbv	97
38) Trichloroethene	4.570	130	117728	10.150	ppbv	91
39) 1,2-Dichloropropane	4.331	63	110494	10.949	ppbv	97
40) 1,4-Dioxane	4.596	88	46497	10.297	ppbv #	89
41) Tetrahydrofuran	3.065	42	122612	10.599	ppbv	98
42) Bromodichloromethane	4.509	83	237205	12.314	ppbv	95
43) Methyl Methacrylate	4.901	69	110610	10.443	ppbv	99
44) 2,2,4-Trimethylpentane	4.658	57	516730	11.070	ppbv	99
45) t-1,3-Dichloropropene	6.438	75	126703	10.454	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042649.D
 Acq On : 19 Jun 2025 10:26
 Operator : SY/MD
 Sample : VL0619ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

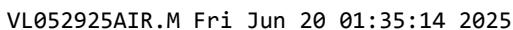
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABS01

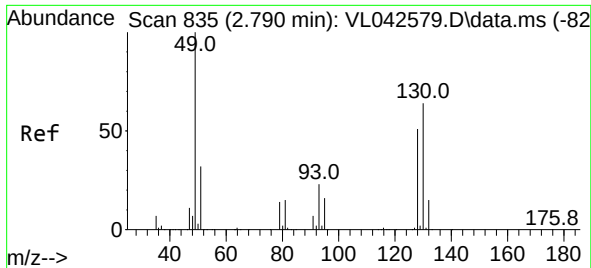
Quant Time: Jun 20 01:35:03 2025
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	160871	10.593	ppbv	97
47) 1,1,2-Trichloroethane	6.603	97	120343	11.520	ppbv	97
48) Dibromochloromethane	7.409	129	188153	11.251	ppbv	100
49) Bromoform	9.503	173	162341	11.251	ppbv	99
50) 4-Methyl-2-Pentanone	5.778	43	300801	10.974	ppbv	98
51) 2-Hexanone	7.454	43	237712	10.935	ppbv #	97
52) Tetrachloroethene	8.244	164	100098	9.816	ppbv	99
53) Toluene	6.959	91	330131	10.467	ppbv	100
54) 1,2-Dibromoethane	7.674	107	172654	11.166	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.943	131	144799	11.799	ppbv	98
57) Chlorobenzene	8.940	112	263529	11.120	ppbv	95
58) Ethyl Benzene	9.374	91	458900	11.085	ppbv	95
59) m/p-Xylene	9.548	91	383214	11.763	ppbv #	29
60) o-Xylene	9.982	91	380653	11.715	ppbv	96
61) Styrene	9.888	104	157508	10.253	ppbv	96
62) Isopropylbenzene	10.555	105	547590	11.407	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.979	83	242285	11.726	ppbv	99
64) n-propylbenzene	11.002	120	145308	11.293	ppbv	94
65) tert-Butylbenzene	11.545	119	480384	11.028	ppbv	96
66) Benzyl Chloride	11.626	91	51799	9.238	ppbv	100
67) sec-Butylbenzene	11.782	105	694122	11.334	ppbv	98
69) p-Isopropyltoluene	11.937	119	576427	11.239	ppbv	98
70) n-Butylbenzene	12.293	91	593718	11.728	ppbv	98
71) 2-Chlorotoluene	10.914	91	414838	11.330	ppbv	97
72) 4-Ethyltoluene	11.138	105	468085	11.555	ppbv	98
73) 1,3,5-Trimethylbenzene	11.218	105	385574	11.500	ppbv	97
74) 1,2,4-Trimethylbenzene	11.552	105	431688	11.602	ppbv	94
75) 1,3-Dichlorobenzene	11.620	146	267433	11.446	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	266891	11.453	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	256891	11.328	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	184233	9.819	ppbv	99
79) Naphthalene	13.523	128	414690	11.824	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	191696	12.098	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	208526	10.651	ppbv	99

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

Quant Time: Jun 20 01:35:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

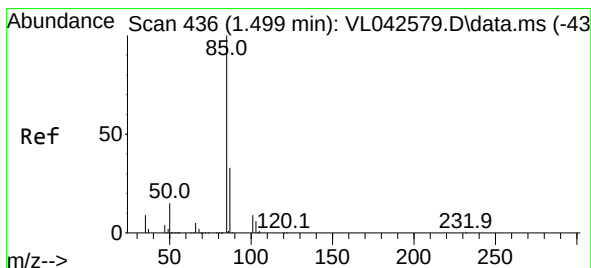
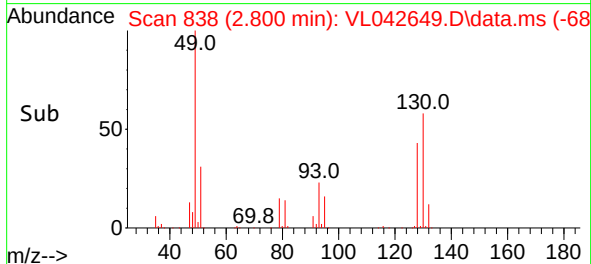
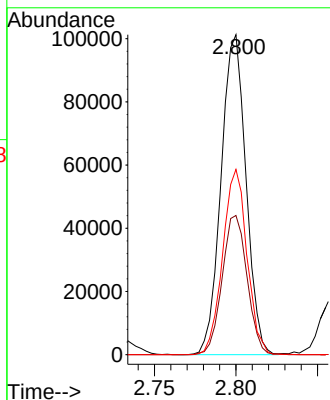
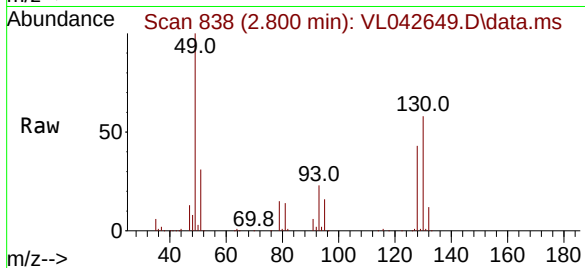




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

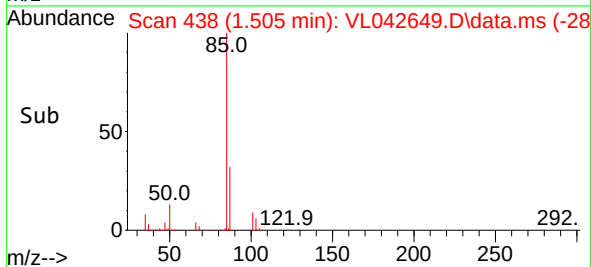
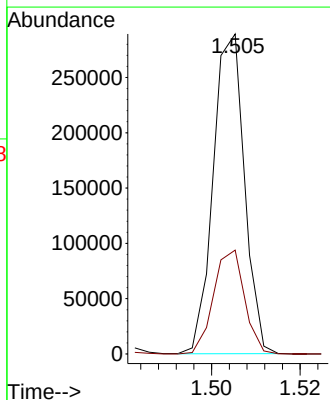
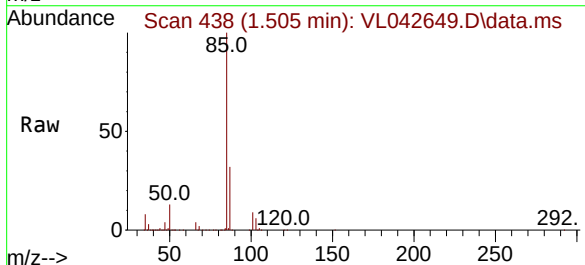
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

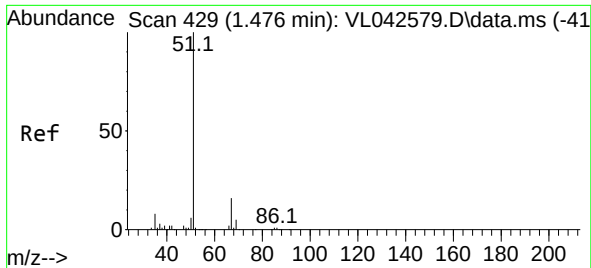
Tgt Ion: 49 Resp: 107593
Ion Ratio Lower Upper
49 100
128 43.5 24.2 72.6
130 56.4 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 10.745 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.006 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 85 Resp: 142090
Ion Ratio Lower Upper
85 100
87 32.5 26.6 39.8

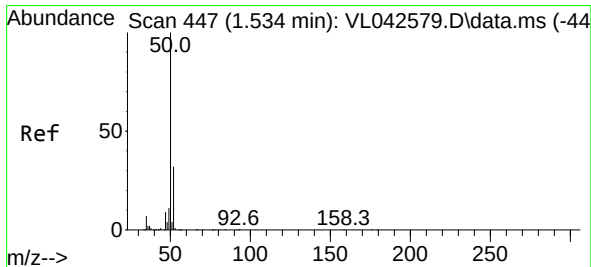
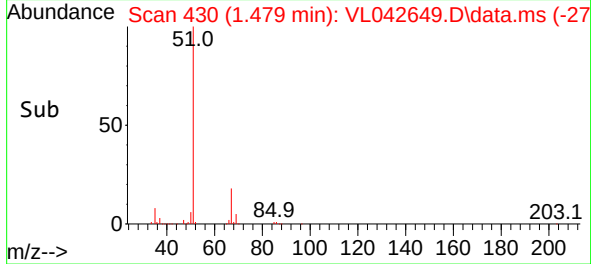
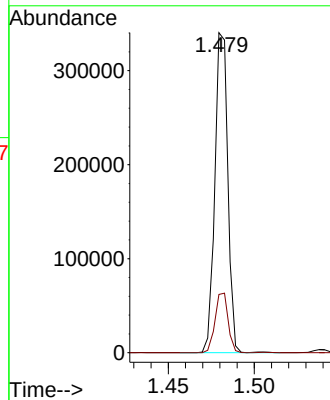
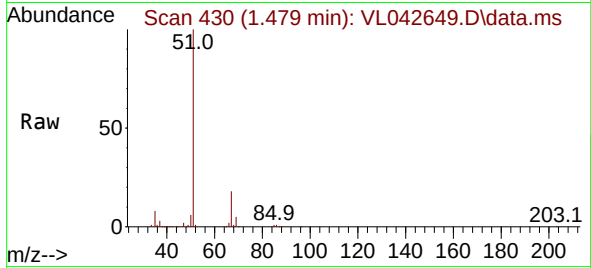




#3
Chlorodifluoromethane
Concen: 9.778 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

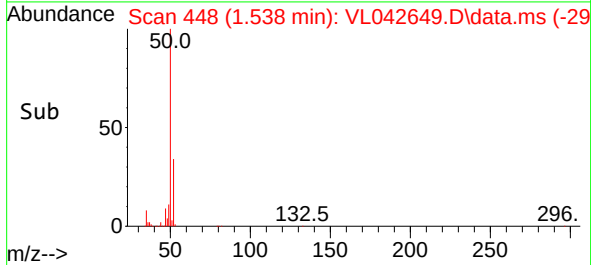
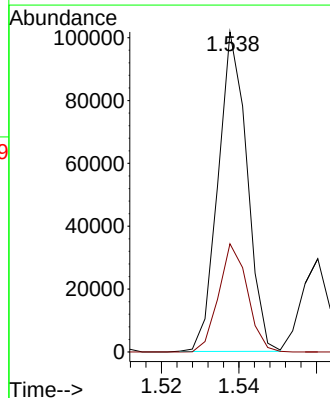
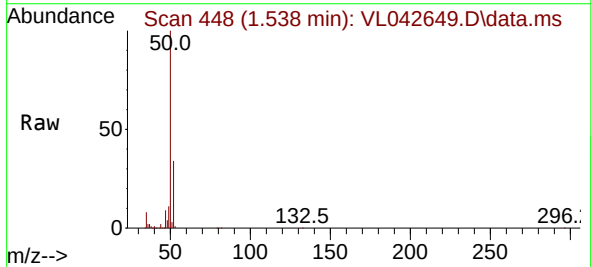
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

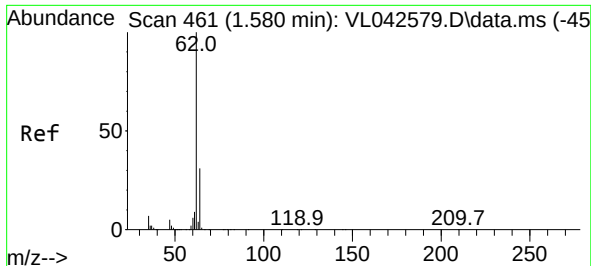
Tgt Ion: 51 Resp: 178086
Ion Ratio Lower Upper
51 100
67 18.8 13.4 20.2



#4
Chloromethane
Concen: 10.054 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 50 Resp: 52647
Ion Ratio Lower Upper
50 100
52 33.9 25.8 38.6

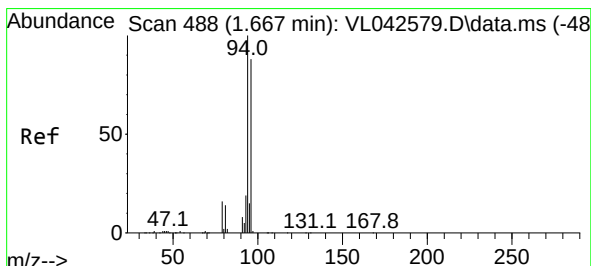
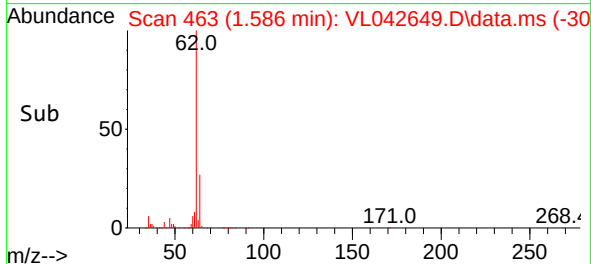
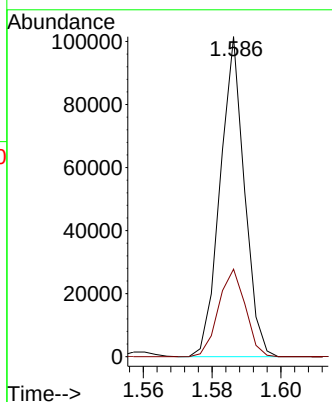
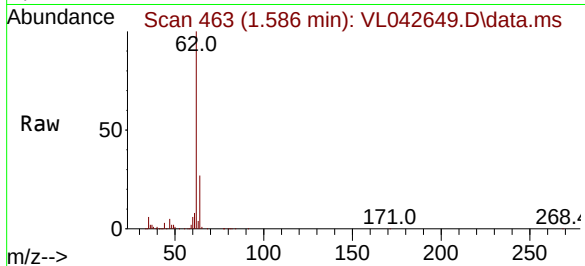




#5
 Vinyl Chloride
 Concen: 9.338 ppbv
 RT: 1.586 min Scan# 40
 Delta R.T. 0.006 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

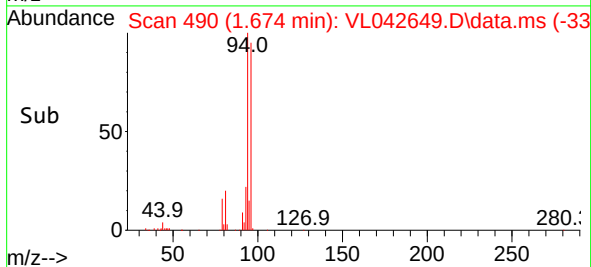
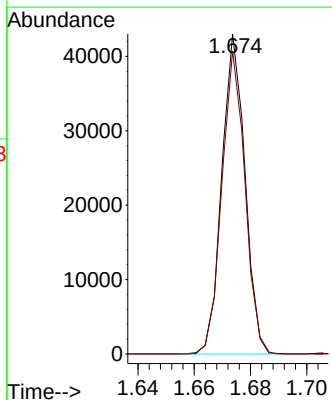
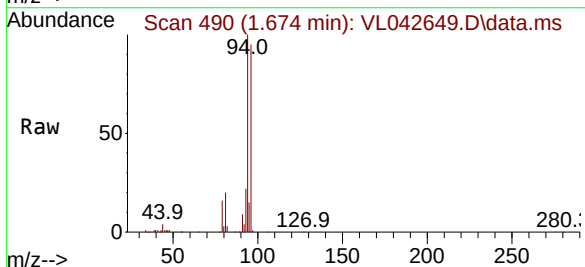
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0619ABS01

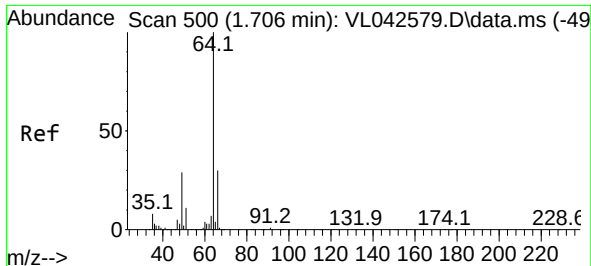
Tgt Ion: 62 Resp: 49813
 Ion Ratio Lower Upper
 62 100
 64 27.4 24.9 37.3



#6
 Bromomethane
 Concen: 9.435 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.007 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

Tgt Ion: 94 Resp: 24497
 Ion Ratio Lower Upper
 94 100
 96 94.7 70.7 106.1

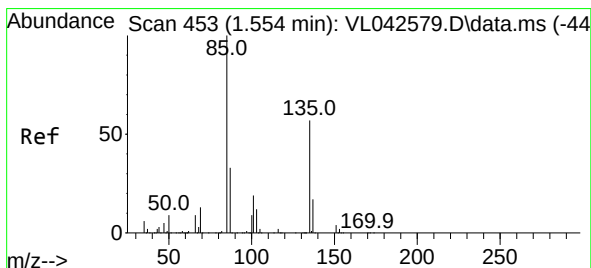
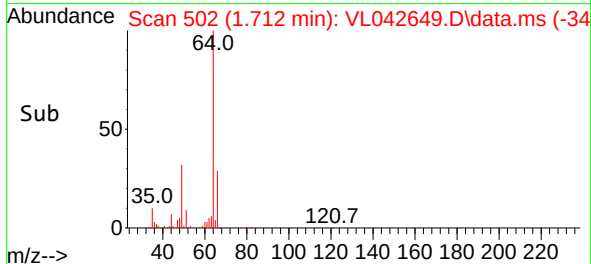
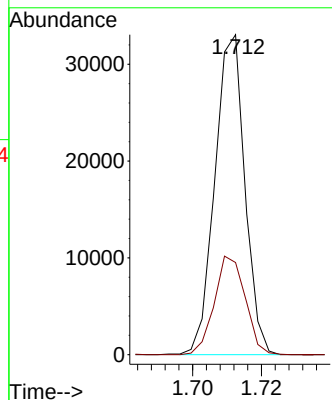
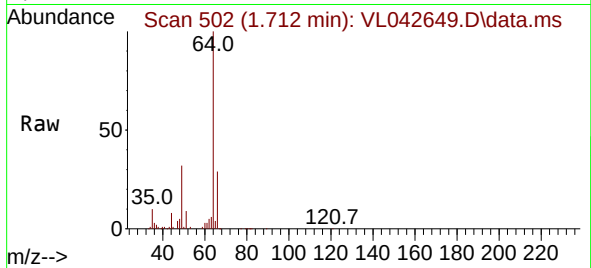




#7
Chloroethane
Concen: 9.661 ppbv
RT: 1.712 min Scan# 500
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

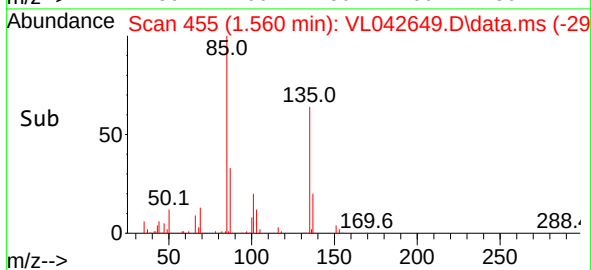
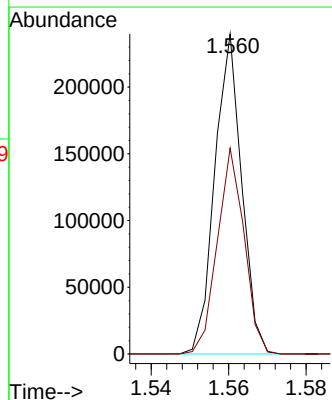
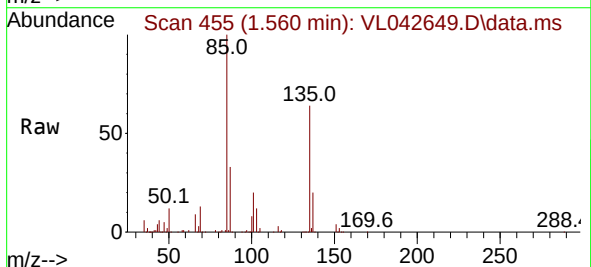
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

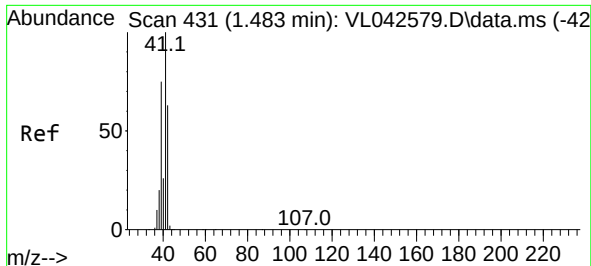
Tgt Ion: 64 Resp: 20025
Ion Ratio Lower Upper
64 100
66 28.8 24.3 36.5



#8
Dichlorotetrafluoroethane
Concen: 10.487 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 85 Resp: 115548
Ion Ratio Lower Upper
85 100
135 64.3 50.2 75.4





#9

Propene

Concen: 9.215 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

Instrument :

MSVOA_L

ClientSampleId :

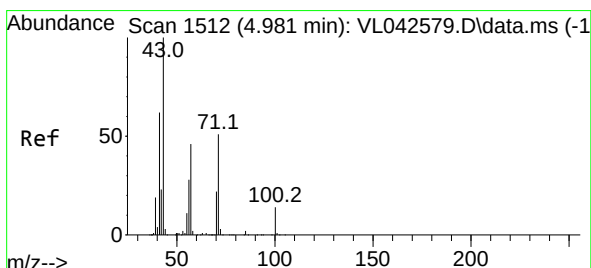
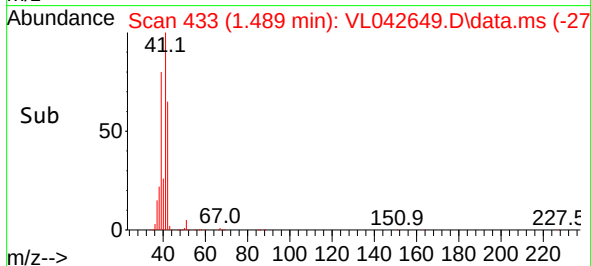
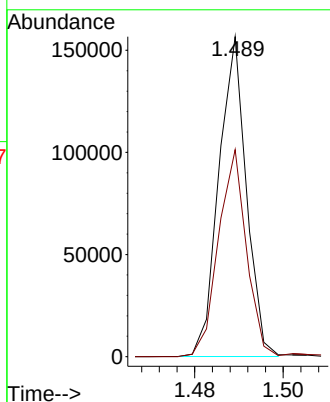
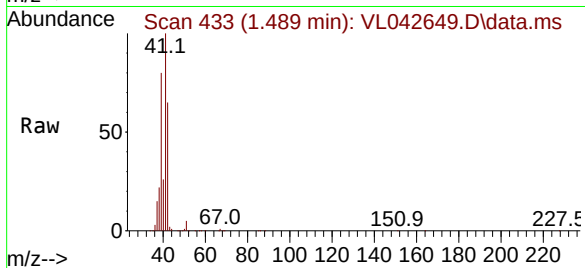
VL0619ABS01

Tgt Ion: 41 Resp: 67588

Ion Ratio Lower Upper

41 100

42 67.5 53.3 79.9



#10

Heptane

Concen: 9.487 ppbv

RT: 5.004 min Scan# 1519

Delta R.T. 0.023 min

Lab File: VL042649.D

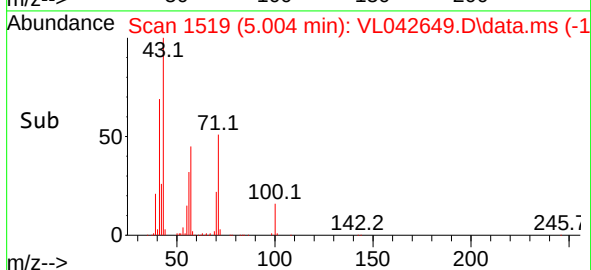
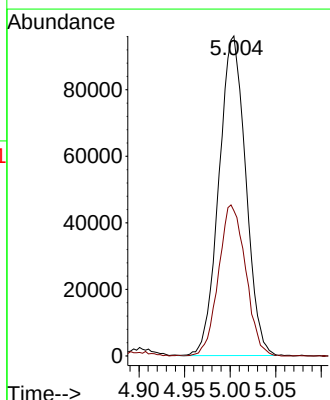
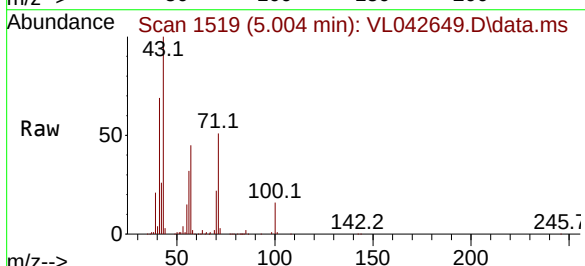
Acq: 19 Jun 2025 10:26

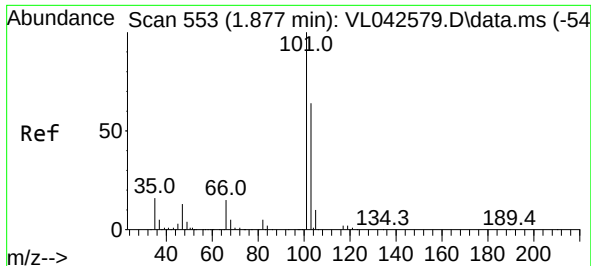
Tgt Ion: 43 Resp: 196137

Ion Ratio Lower Upper

43 100

57 48.0 38.9 58.3

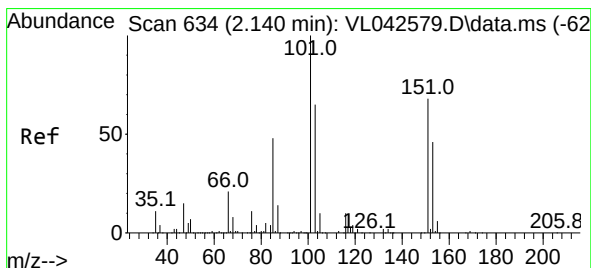
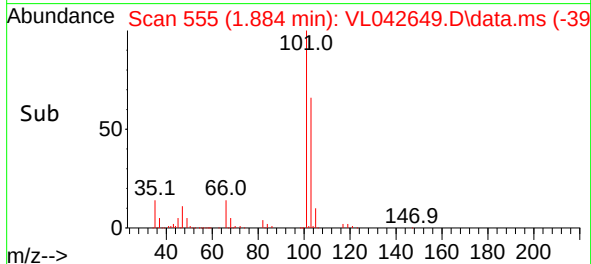
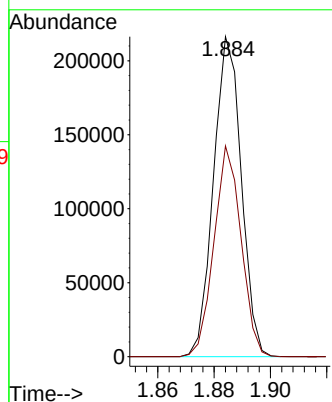
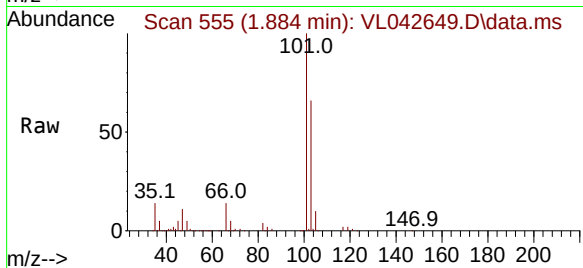




#11
 Trichlorofluoromethane
 Concen: 12.061 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. 0.007 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

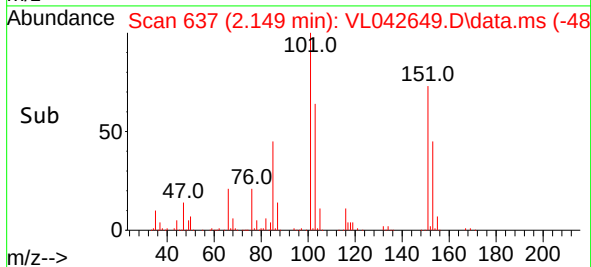
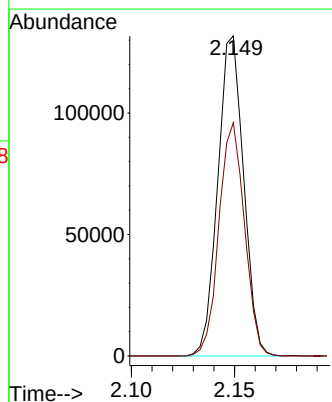
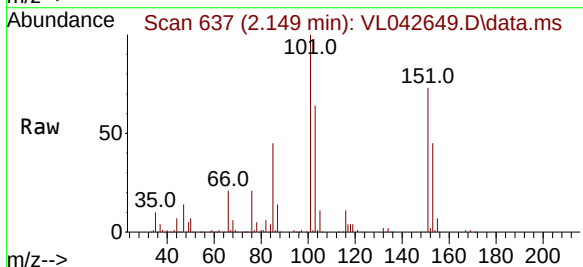
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABS01

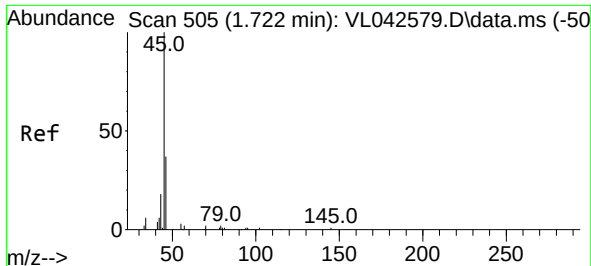
Tgt Ion:101 Resp: 148395
 Ion Ratio Lower Upper
 101 100
 103 65.9 51.5 77.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.868 ppbv
 RT: 2.149 min Scan# 637
 Delta R.T. 0.010 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

Tgt Ion:101 Resp: 114662
 Ion Ratio Lower Upper
 101 100
 151 72.0 55.3 82.9





#13

Ethanol

Concen: 6.044 ppbv

RT: 1.729 min Scan# 505

Delta R.T. 0.007 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

Instrument :

MSVOA_L

ClientSampleId :

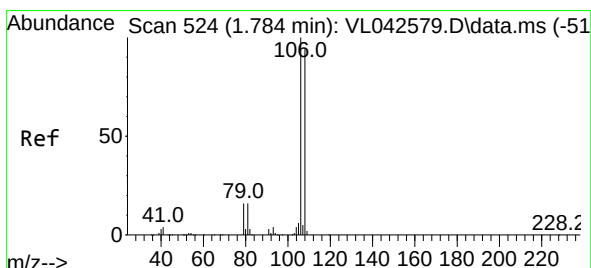
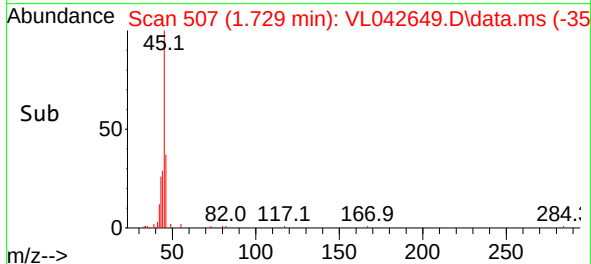
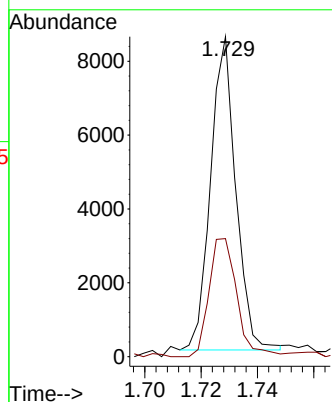
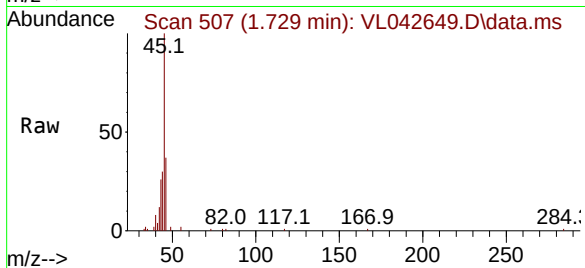
VL0619ABS01

Tgt Ion: 45 Resp: 5283

Ion Ratio Lower Upper

45 100

46 44.0 14.5 58.1



#14

Bromoethene

Concen: 11.062 ppbv

RT: 1.790 min Scan# 526

Delta R.T. 0.007 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

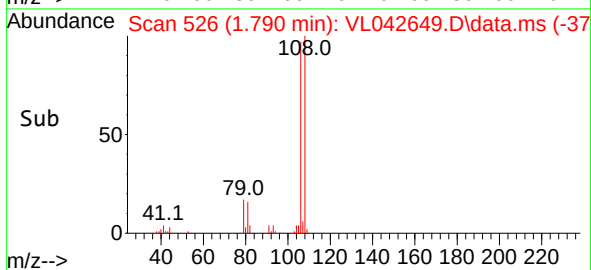
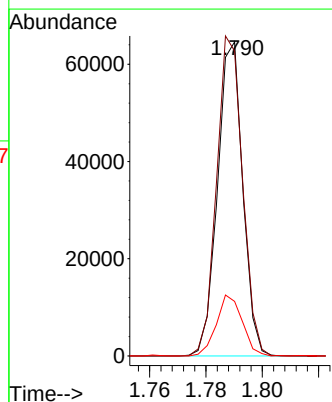
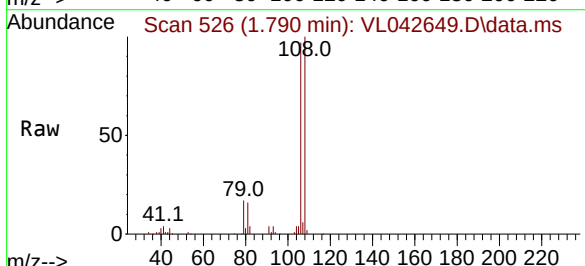
Tgt Ion: 108 Resp: 40199

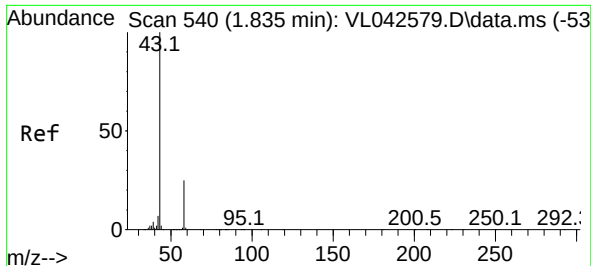
Ion Ratio Lower Upper

108 100

106 104.6 87.9 131.9

79 20.1 15.6 23.4





#15

Acetone

Concen: 9.145 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.007 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

Instrument :

MSVOA_1

ClientSampleId :

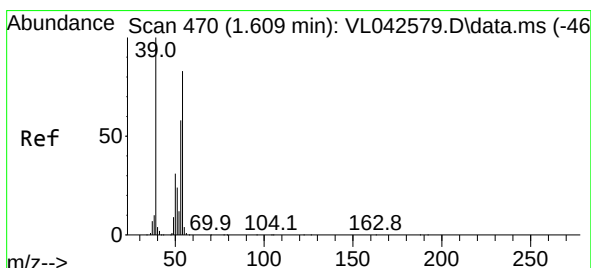
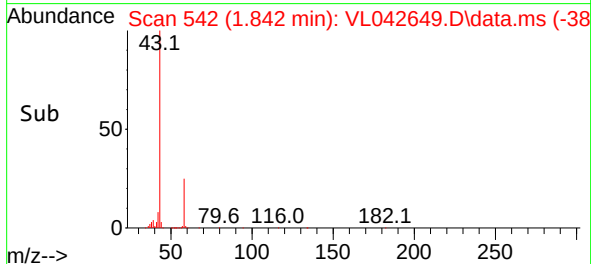
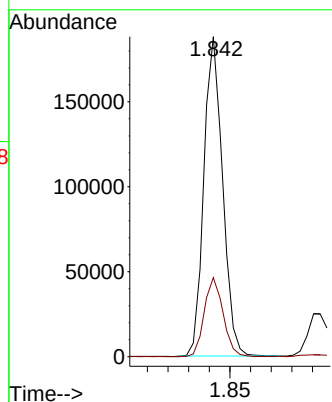
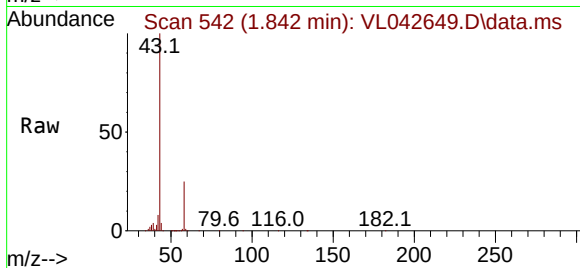
VL0619ABS01

Tgt Ion: 43 Resp: 118513

Ion Ratio Lower Upper

43 100

58 24.9 21.0 31.4



#16

1,3-Butadiene

Concen: 9.162 ppbv

RT: 1.615 min Scan# 472

Delta R.T. 0.007 min

Lab File: VL042649.D

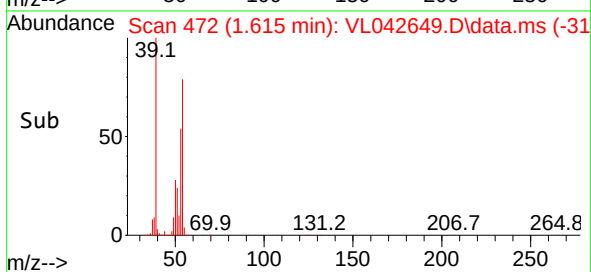
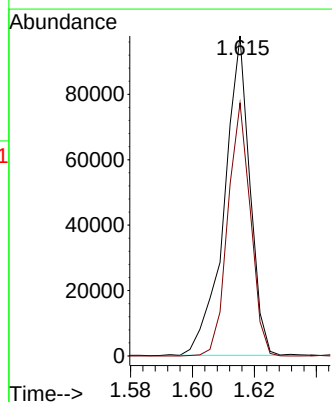
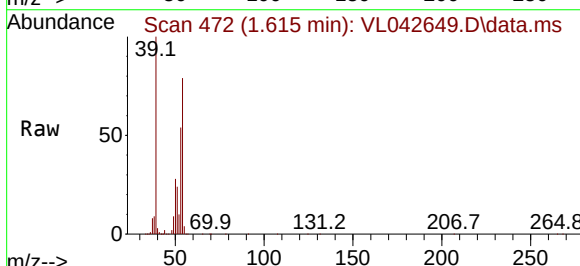
Acq: 19 Jun 2025 10:26

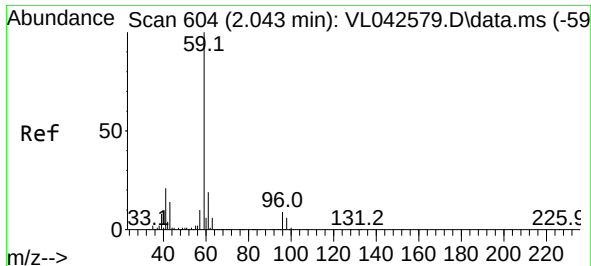
Tgt Ion: 39 Resp: 56246

Ion Ratio Lower Upper

39 100

54 70.1 57.9 86.9





#17

tert-Butyl alcohol

Concen: 9.922 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

Instrument :

MSVOA_1

ClientSampleId :

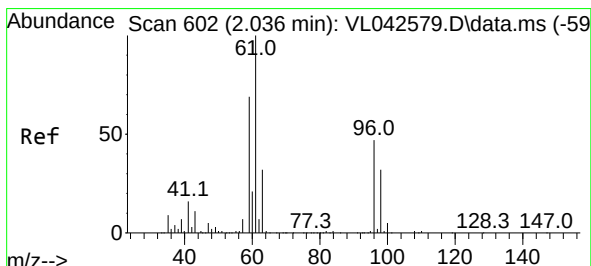
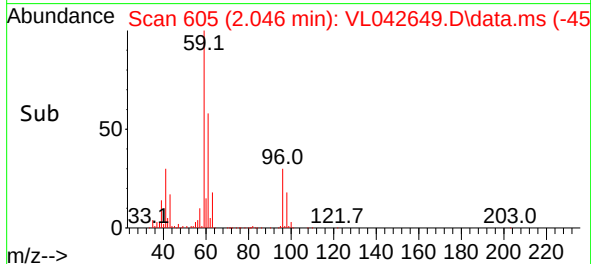
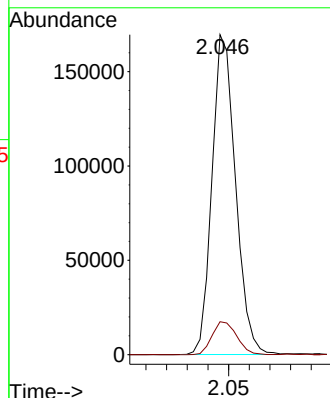
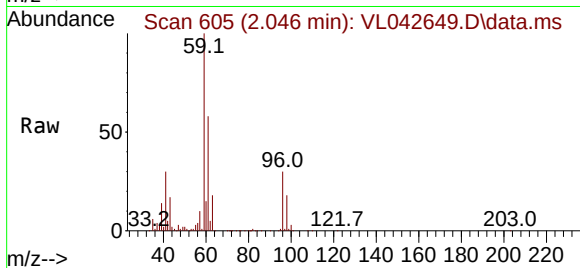
VL0619ABS01

Tgt Ion: 59 Resp: 133965

Ion Ratio Lower Upper

59 100

57 11.0 8.6 12.8



#18

1,1-Dichloroethene

Concen: 10.908 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.007 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

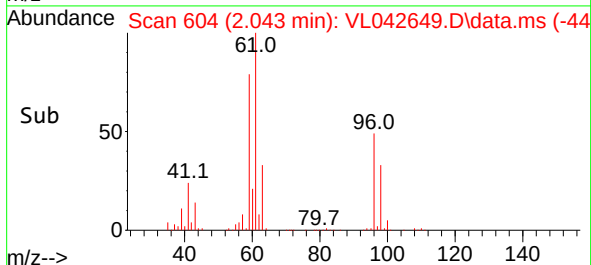
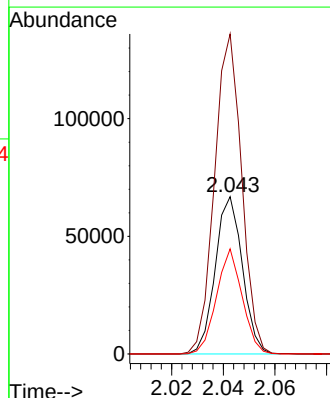
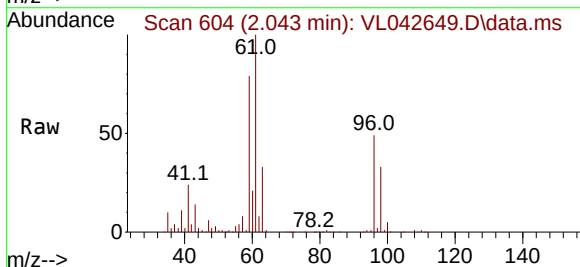
Tgt Ion: 96 Resp: 48846

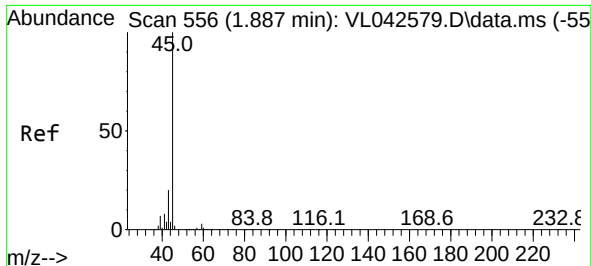
Ion Ratio Lower Upper

96 100

61 203.4 171.1 256.7

98 66.8 54.4 81.6

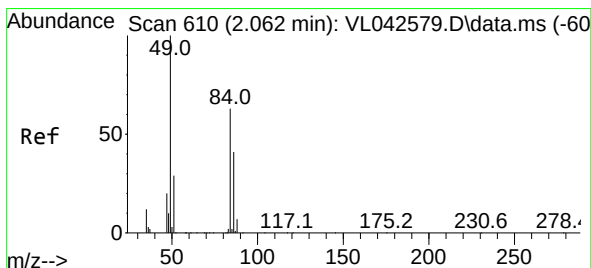
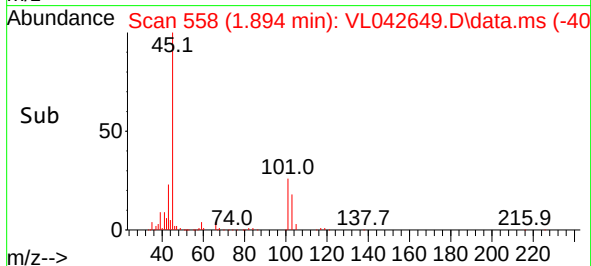
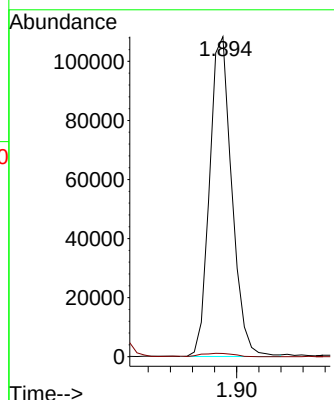
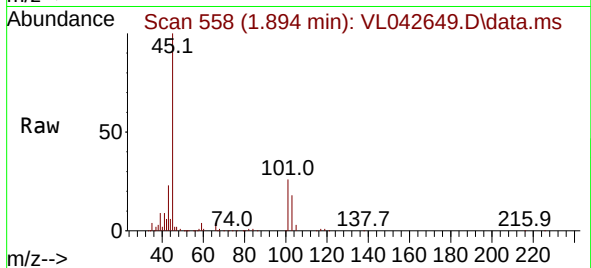




#19
Isopropyl Alcohol
Concen: 9.772 ppbv
RT: 1.894 min Scan# 51
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

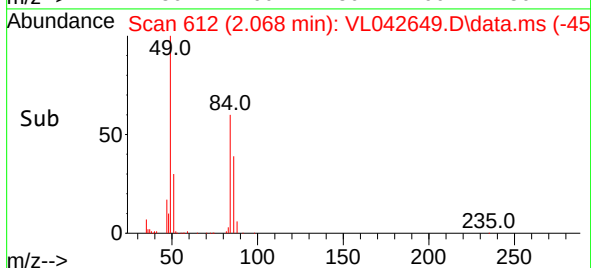
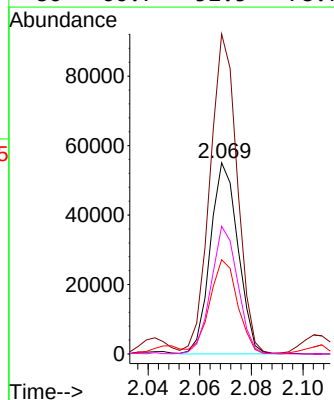
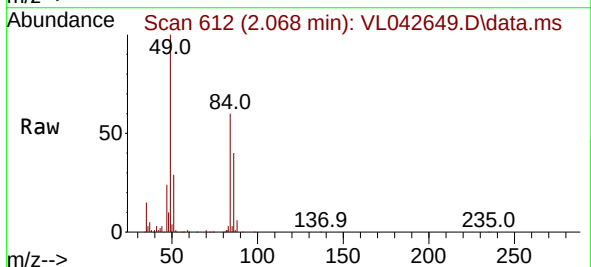
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

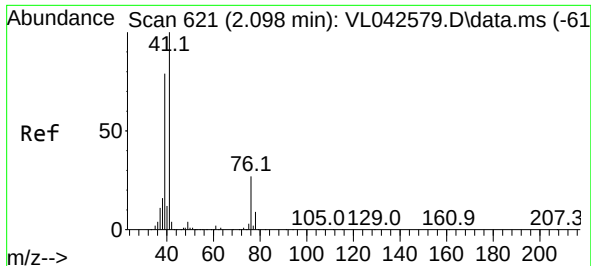
Tgt Ion: 45 Resp: 75712
Ion Ratio Lower Upper
45 100
58 39.1 29.4 44.2



#20
Methylene Chloride
Concen: 9.587 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 84 Resp: 41003
Ion Ratio Lower Upper
84 100
49 167.0 128.8 193.2
51 48.9 38.6 57.8
86 66.7 52.5 78.7

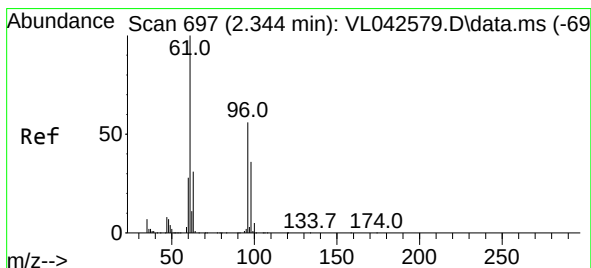
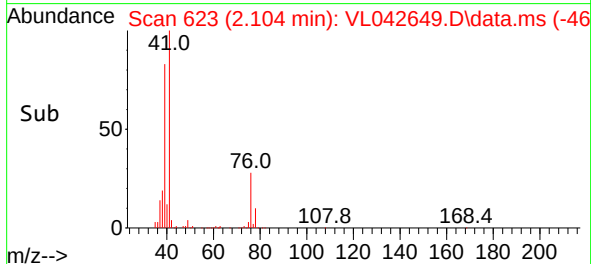
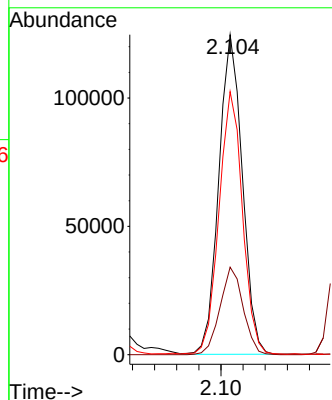
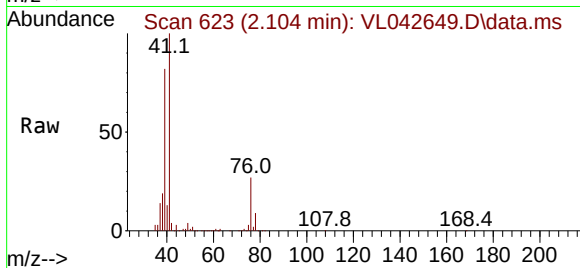




#21
 Allyl Chloride
 Concen: 10.047 ppbv
 RT: 2.104 min Scan# 61
 Delta R.T. 0.007 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

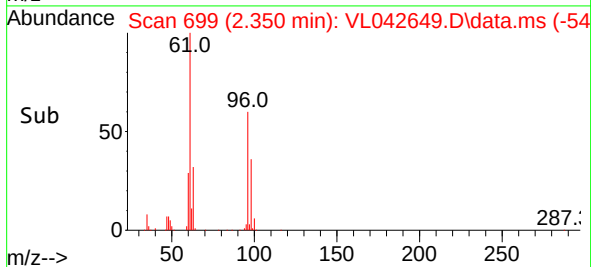
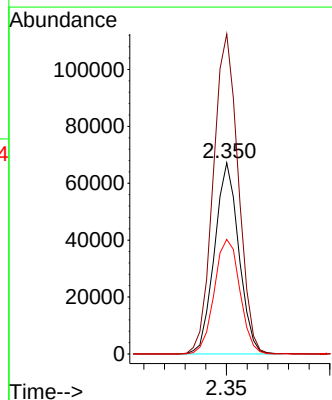
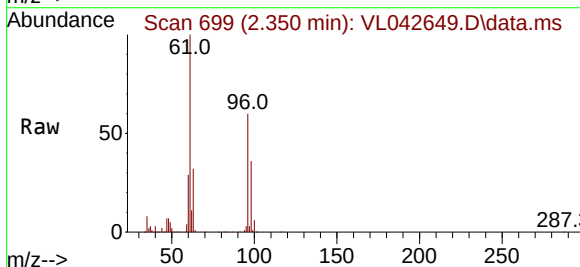
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABS01

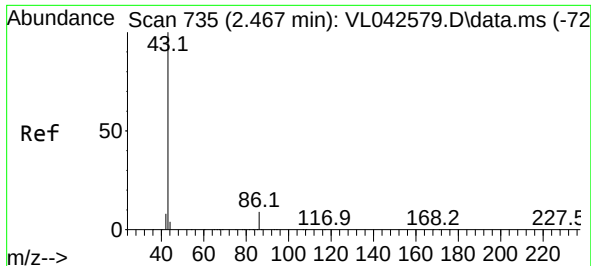
Tgt Ion: 41 Resp: 91875
 Ion Ratio Lower Upper
 41 100
 76 26.9 21.2 31.8
 39 82.1 60.9 91.3



#22
 trans-1,2-Dichloroethene
 Concen: 10.978 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.007 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

Tgt Ion: 96 Resp: 54912
 Ion Ratio Lower Upper
 96 100
 61 167.2 142.6 214.0
 98 60.0 51.0 76.4

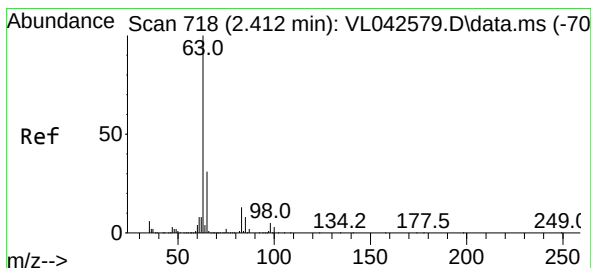
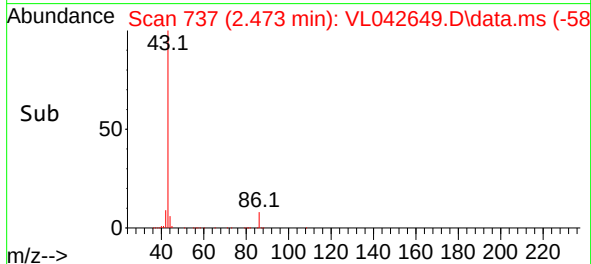
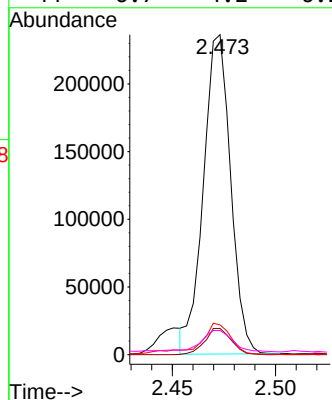
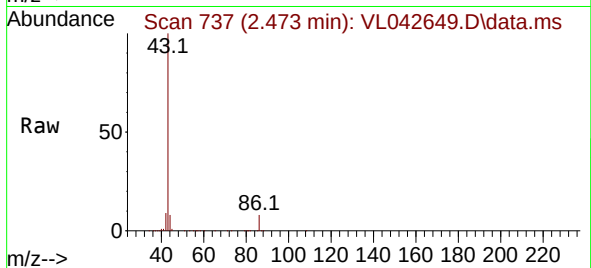




#23
 Vinyl Acetate
 Concen: 12.351 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. 0.007 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

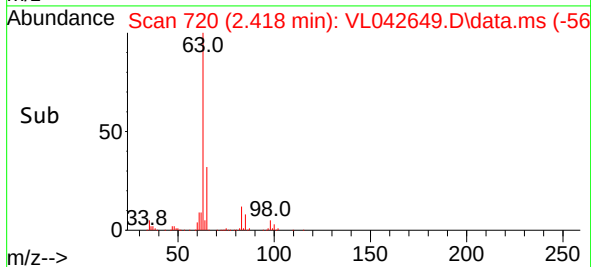
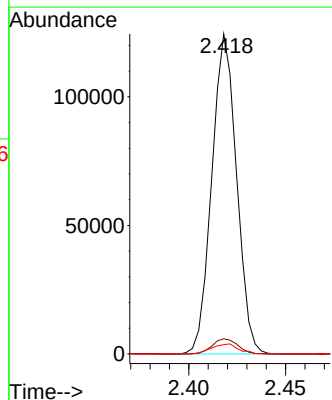
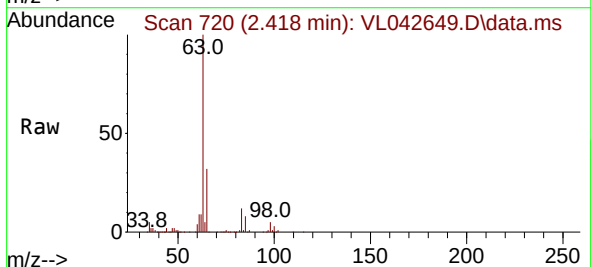
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0619ABS01

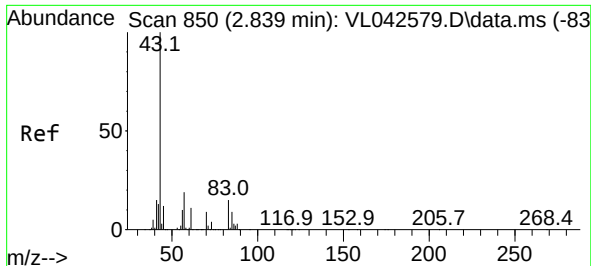
Tgt Ion:	43	Resp:	216370
Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8
42	9.2	7.0	10.4
44	6.7	4.2	6.2



#24
 1,1-Dichloroethane
 Concen: 10.756 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.006 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

Tgt Ion:	63	Resp:	110695
Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.4	7.1
100	2.9	1.4	4.0

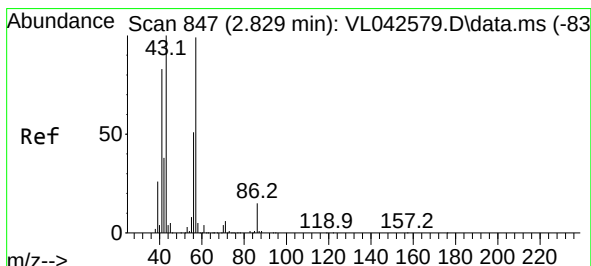
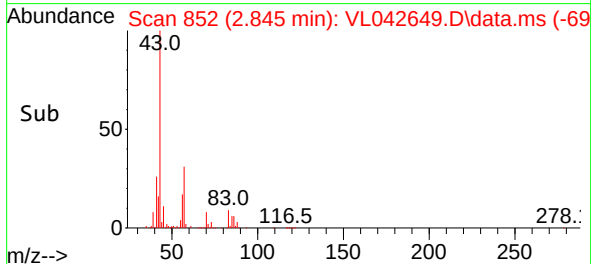
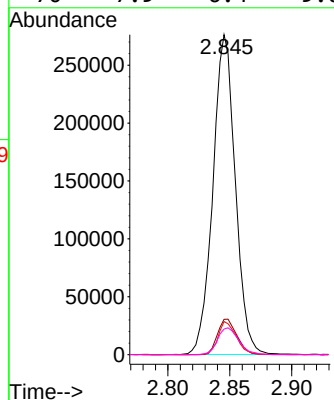
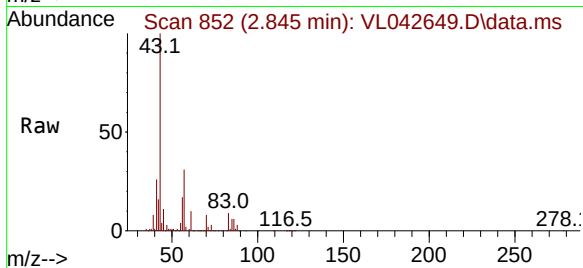




#25
Ethyl Acetate
Concen: 9.815 ppbv
RT: 2.845 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

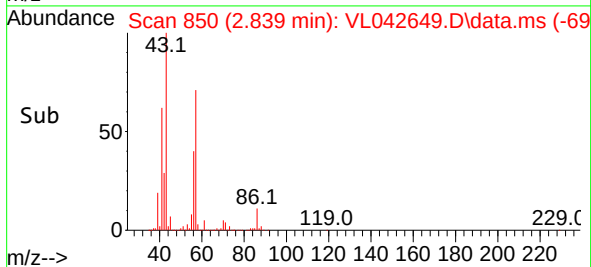
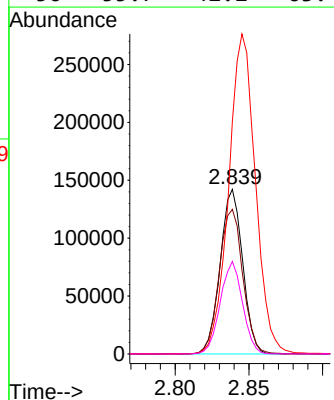
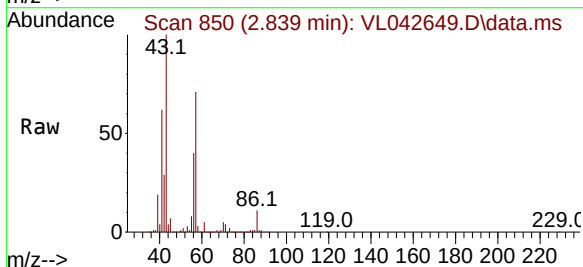
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

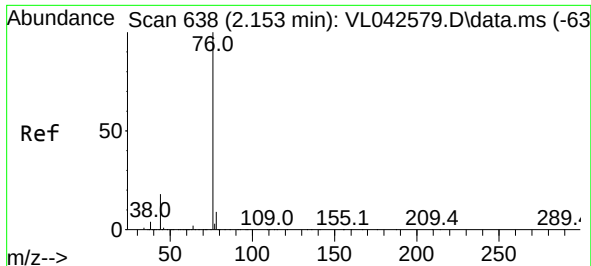
Tgt Ion:	43	Resp:	348113
Ion	Ratio	Lower	Upper
43	100		
45	9.8	8.2	12.2
61	8.5	7.1	10.7
70	7.9	6.4	9.6



#26
Hexane
Concen: 9.352 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion:	57	Resp:	150708
Ion	Ratio	Lower	Upper
57	100		
41	92.9	70.6	106.0
43	232.0	181.1	271.7
56	55.7	42.2	63.4

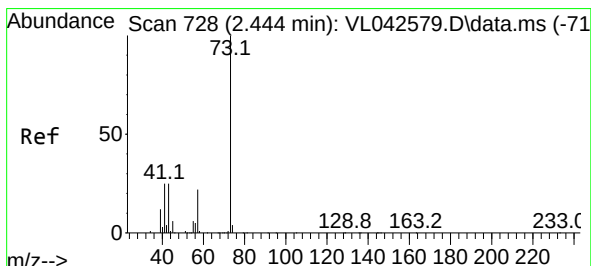
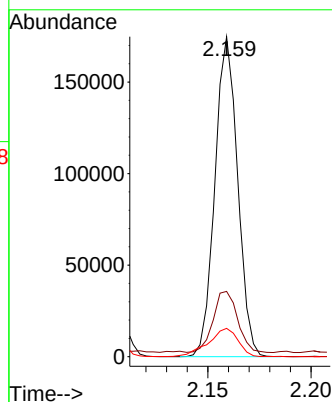
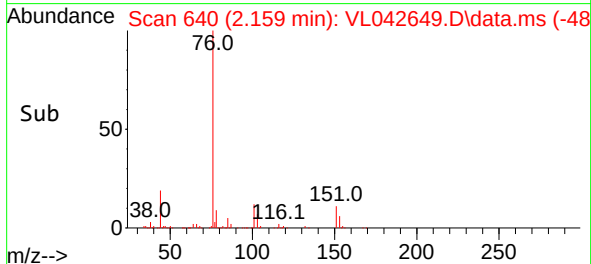
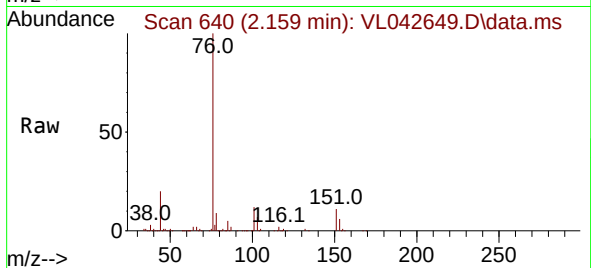




#27
Carbon Disulfide
Concen: 10.818 ppbv
RT: 2.159 min Scan# 64
Delta R.T. 0.006 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

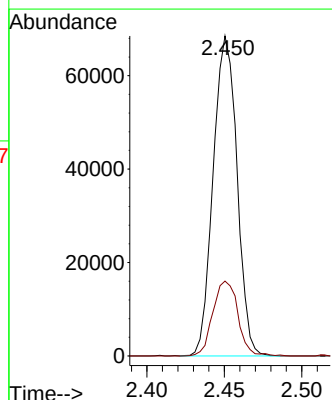
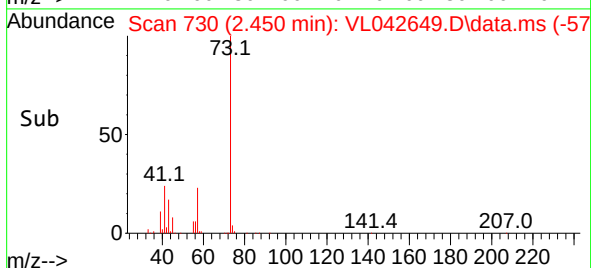
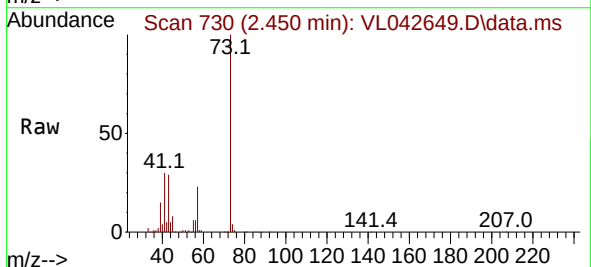
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

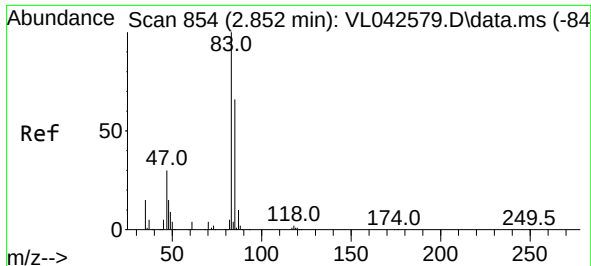
Tgt Ion: 76 Resp: 133837
Ion Ratio Lower Upper
76 100
44 21.1 21.3 31.9#
78 11.6 9.4 14.0



#28
Methyl tert-Butyl Ether
Concen: 11.225 ppbv
RT: 2.450 min Scan# 730
Delta R.T. 0.006 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 73 Resp: 73405
Ion Ratio Lower Upper
73 100
57 24.6 19.9 29.9





#29

Chloroform

Concen: 10.702 ppbv

RT: 2.858 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

Instrument :

MSVOA_L

ClientSampleId :

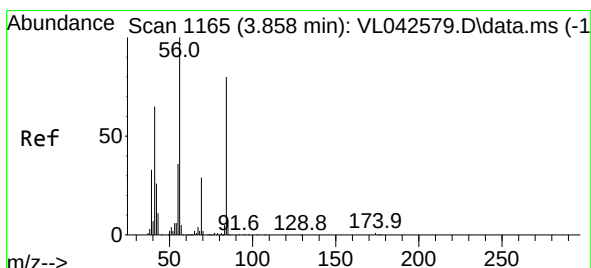
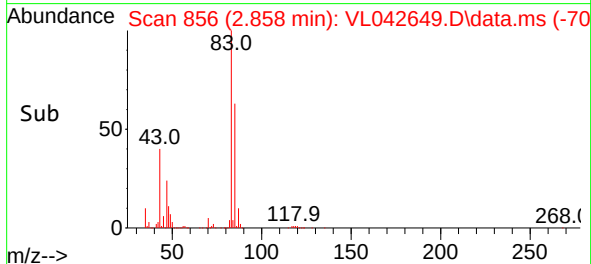
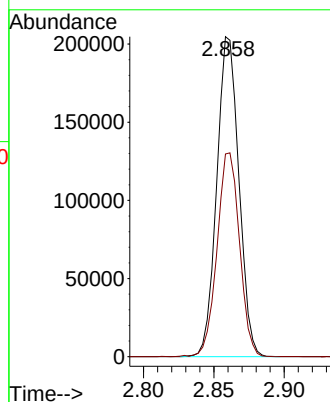
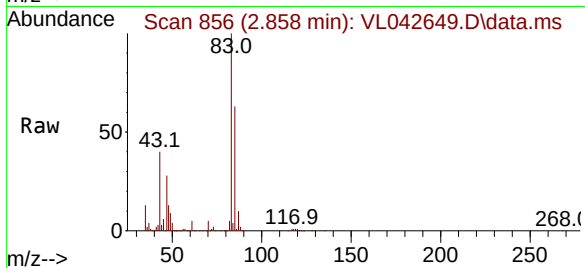
VL0619ABS01

Tgt Ion: 83 Resp: 224279

Ion Ratio Lower Upper

83 100

85 63.3 52.8 79.2



#30

Cyclohexane

Concen: 9.127 ppbv

RT: 3.871 min Scan# 1169

Delta R.T. 0.013 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

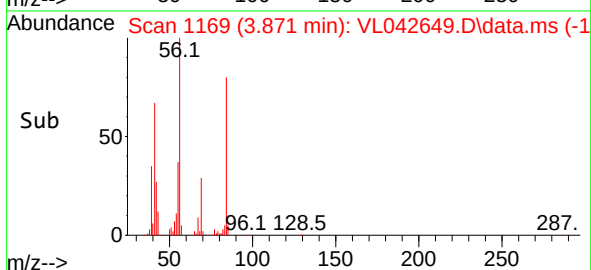
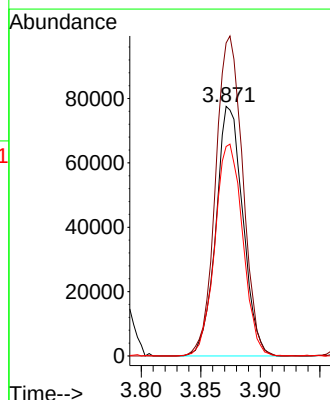
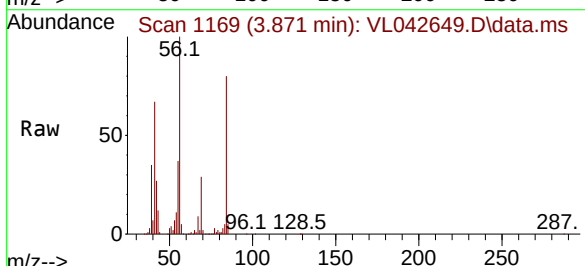
Tgt Ion: 84 Resp: 121943

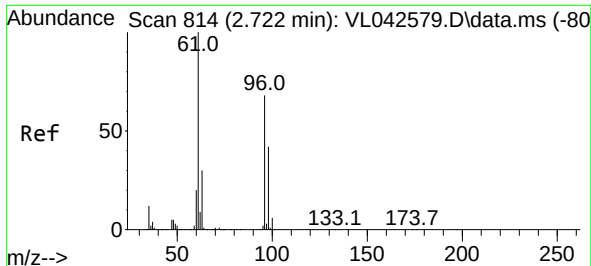
Ion Ratio Lower Upper

84 100

56 128.9 103.7 155.5

41 87.7 65.1 97.7

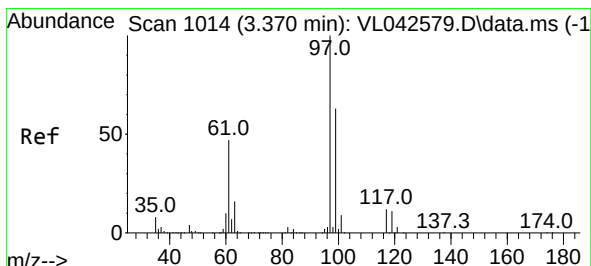
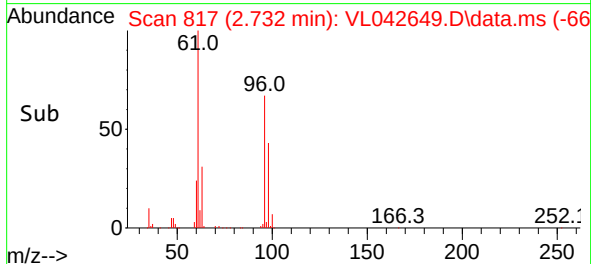
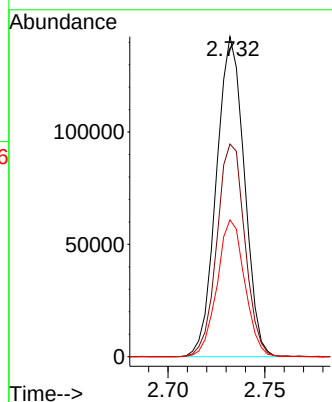
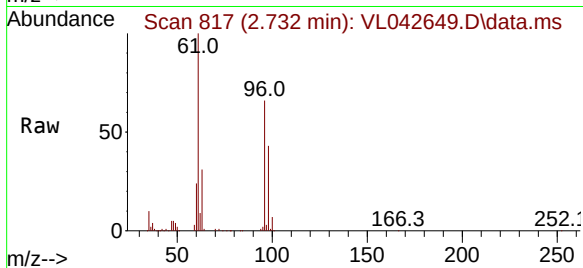




#31
 cis-1,2-Dichloroethene
 Concen: 9.703 ppbv
 RT: 2.732 min Scan# 814
 Delta R.T. 0.010 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

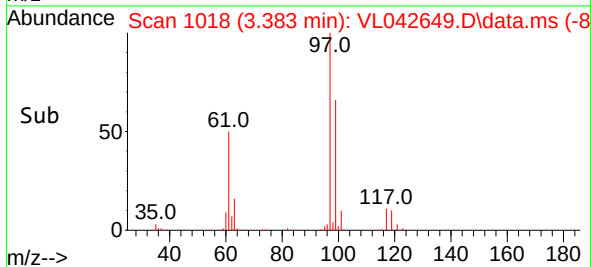
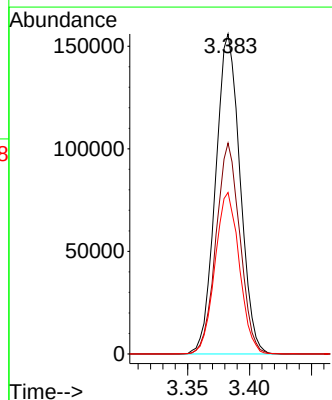
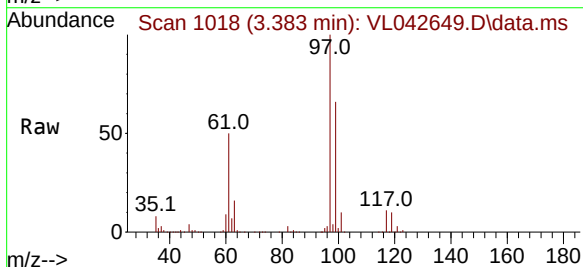
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABS01

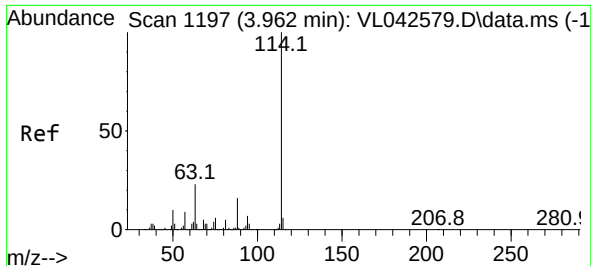
Tgt Ion: 61 Resp: 143034
 Ion Ratio Lower Upper
 61 100
 96 66.4 54.5 81.7
 98 42.7 33.4 50.2



#32
 1,1,1-Trichloroethane
 Concen: 10.022 ppbv
 RT: 3.383 min Scan# 1018
 Delta R.T. 0.013 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

Tgt Ion: 97 Resp: 214588
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.0 76.6
 61 50.4 39.4 59.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1197

Delta R.T. 0.013 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

Instrument :

MSVOA_L

ClientSampleId :

VL0619ABS01

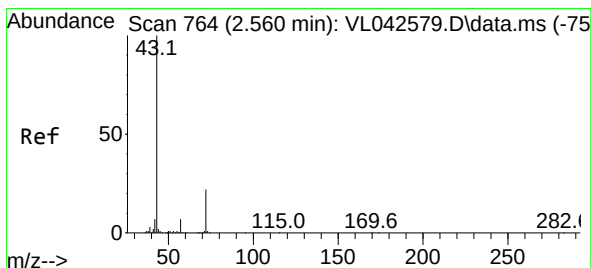
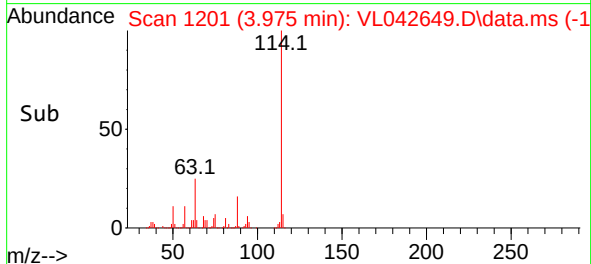
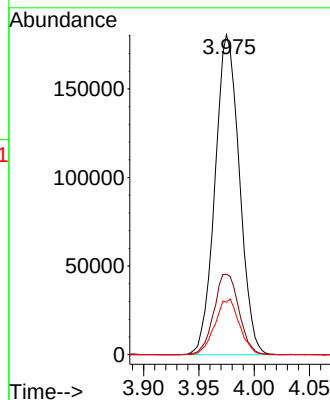
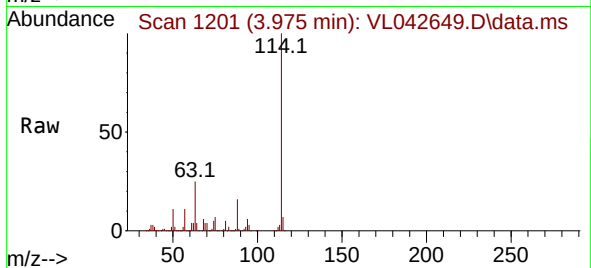
Tgt Ion:114 Resp: 277113

Ion Ratio Lower Upper

114 100

63 25.9 19.0 28.6

88 17.5 13.6 20.4



#34

2-Butanone

Concen: 11.663 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.007 min

Lab File: VL042649.D

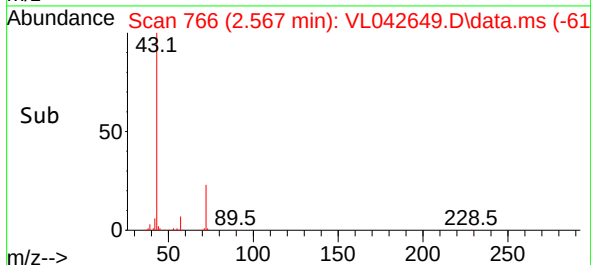
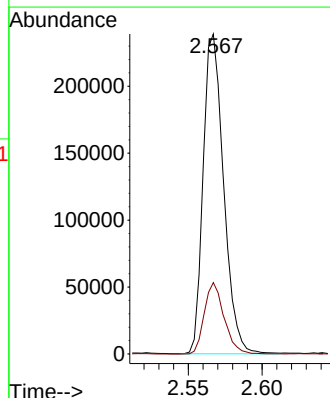
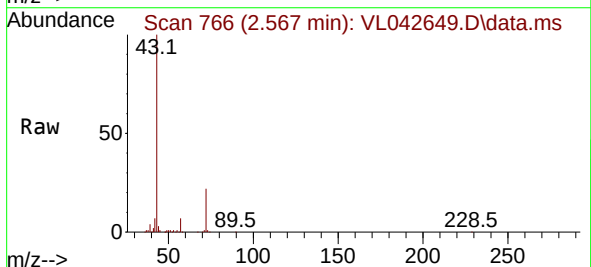
Acq: 19 Jun 2025 10:26

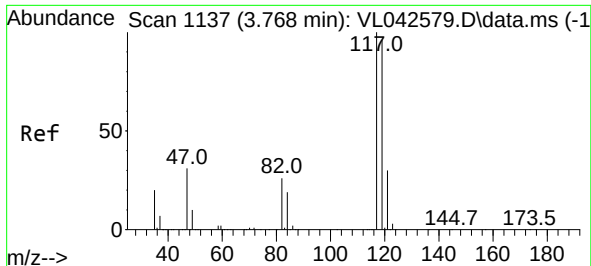
Tgt Ion: 43 Resp: 230485

Ion Ratio Lower Upper

43 100

72 21.6 17.7 26.5

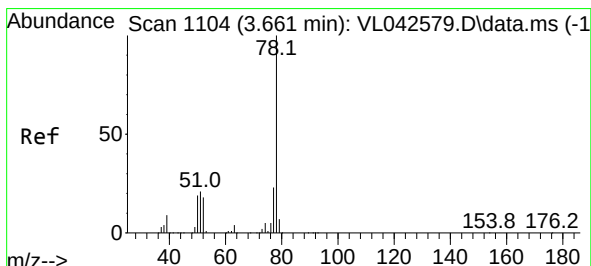
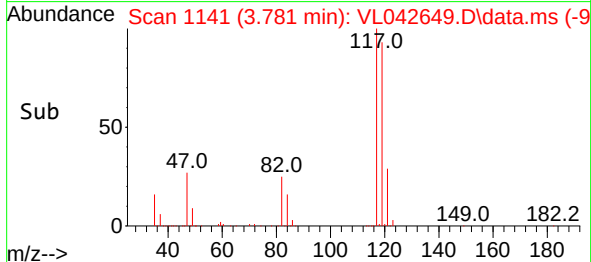
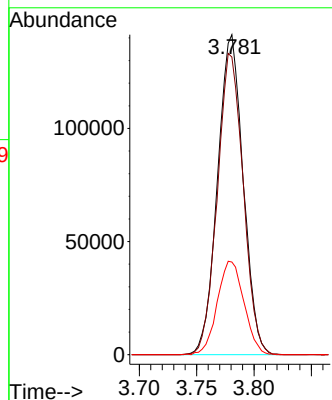
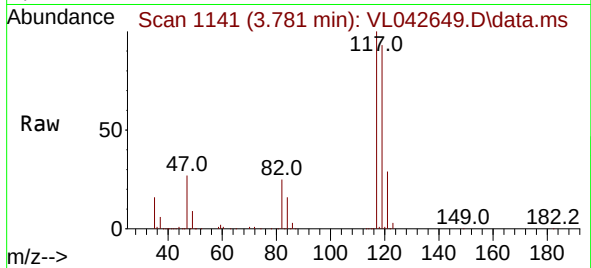




#35
Carbon Tetrachloride
Concen: 12.000 ppbv
RT: 3.781 min Scan# 1137
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

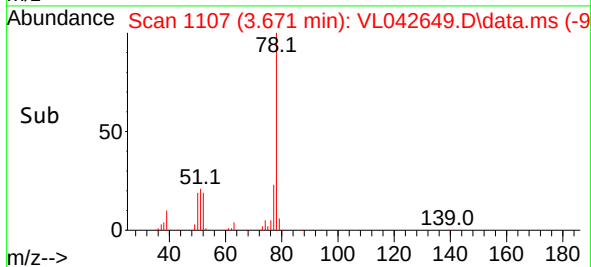
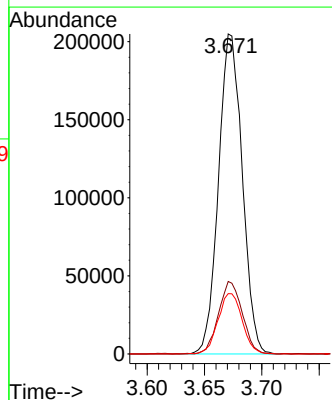
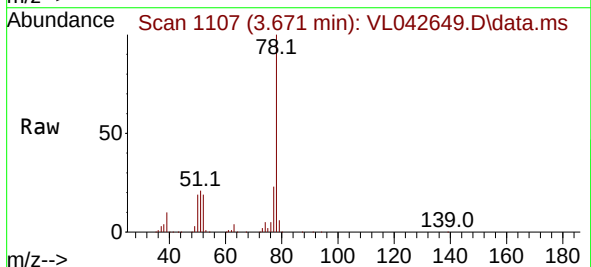
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

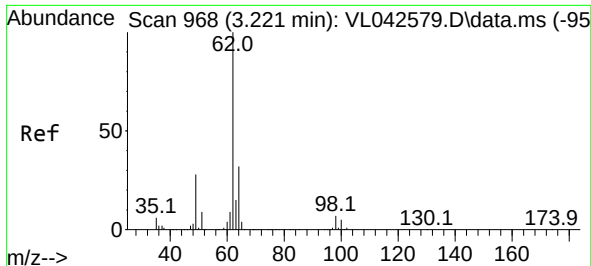
Tgt Ion:117 Resp: 219519
Ion Ratio Lower Upper
117 100
119 93.0 76.8 115.2
121 29.0 24.3 36.5



#36
Benzene
Concen: 10.816 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 78 Resp: 295149
Ion Ratio Lower Upper
78 100
77 22.6 18.2 27.2
50 18.8 15.2 22.8

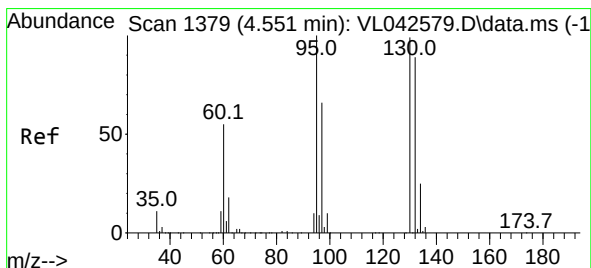
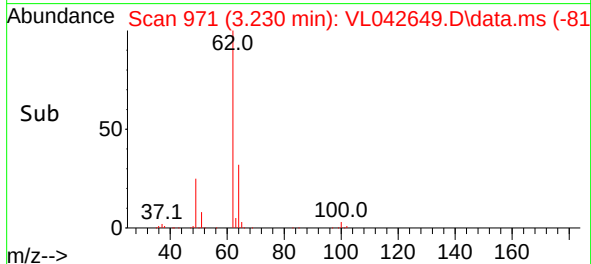
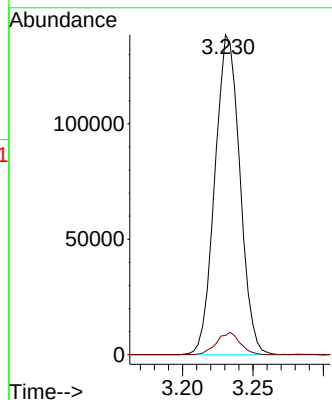
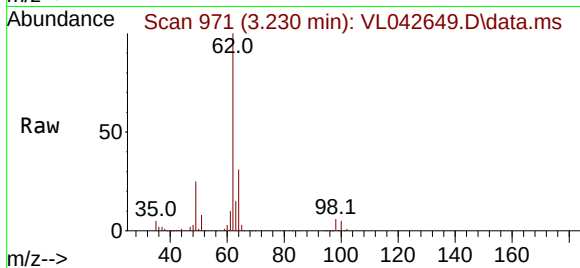




#37
1,2-Dichloroethane
Concen: 12.625 ppbv
RT: 3.230 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

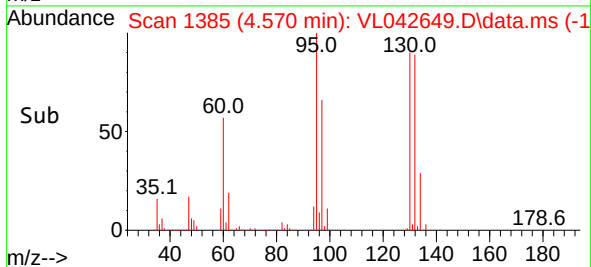
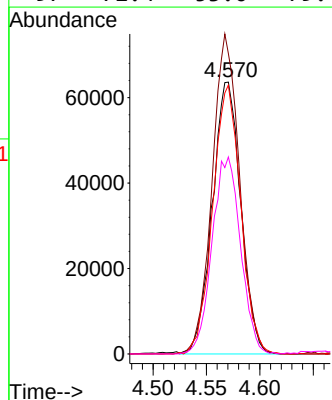
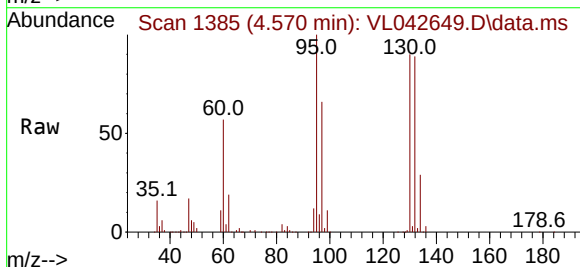
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

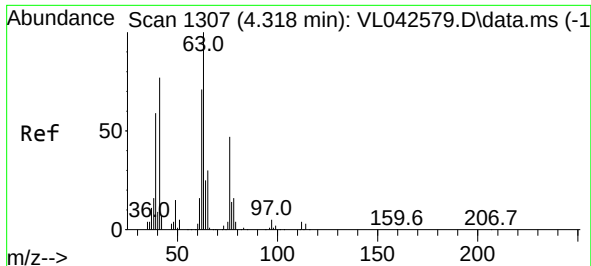
Tgt Ion: 62 Resp: 171230
Ion Ratio Lower Upper
62 100
98 6.6 6.1 9.1



#38
Trichloroethene
Concen: 10.150 ppbv
RT: 4.570 min Scan# 1385
Delta R.T. 0.019 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 130 Resp: 117728
Ion Ratio Lower Upper
130 100
95 110.5 80.6 121.0
132 98.7 71.8 107.6
97 72.4 53.0 79.4





#39

1,2-Dichloropropane

Concen: 10.949 ppbv

RT: 4.331 min Scan# 11

Delta R.T. 0.013 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

Instrument :

MSVOA_L

ClientSampleId :

VL0619ABS01

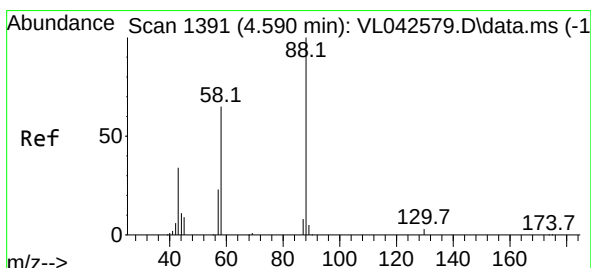
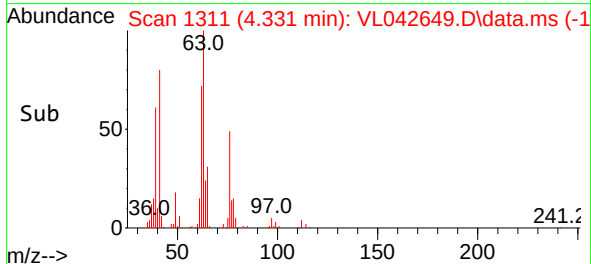
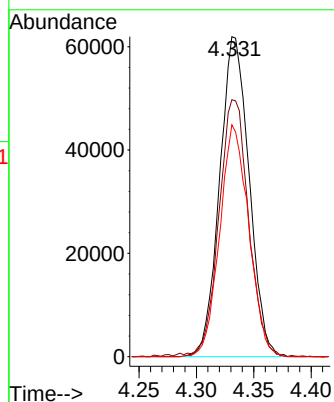
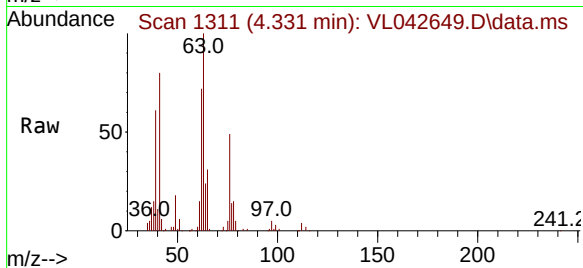
Tgt Ion: 63 Resp: 110494

Ion Ratio Lower Upper

63 100

41 80.0 61.8 92.6

62 72.5 56.6 85.0



#40

1,4-Dioxane

Concen: 10.297 ppbv

RT: 4.596 min Scan# 1393

Delta R.T. 0.007 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

Tgt Ion: 88 Resp: 46497

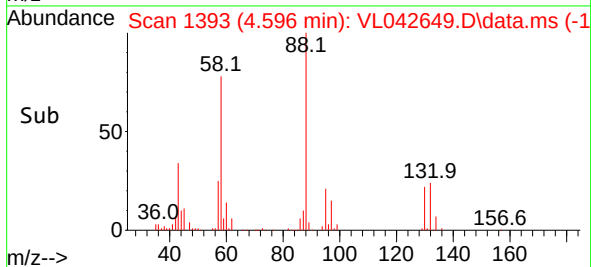
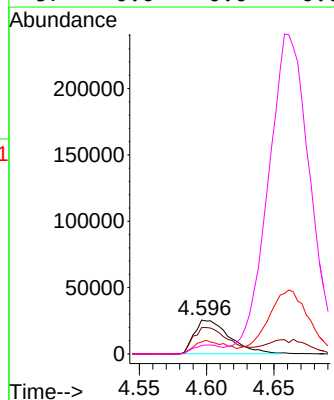
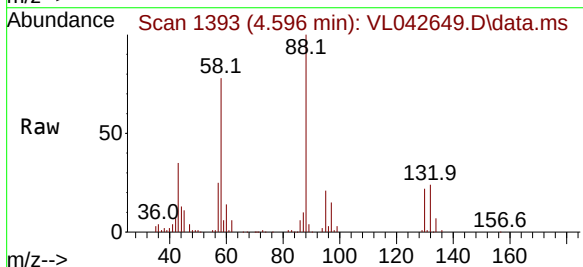
Ion Ratio Lower Upper

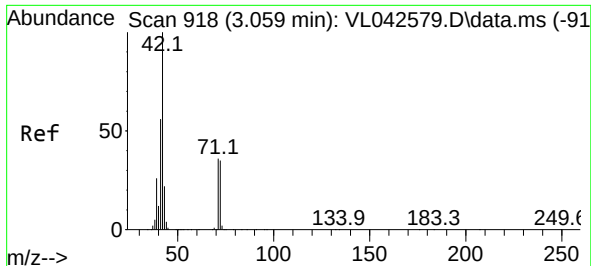
88 100

58 76.2 55.8 83.8

43 40.4 24.8 37.2#

57 0.0 0.0 0.0

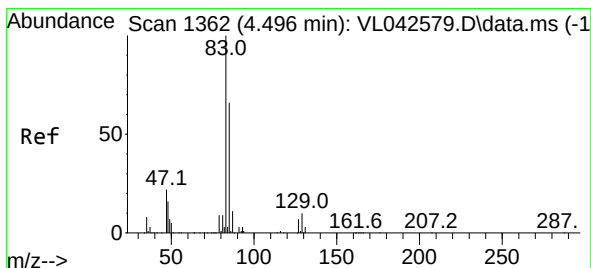
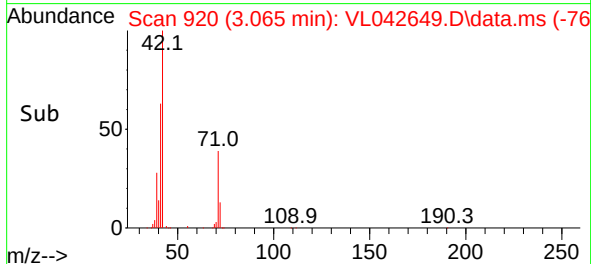
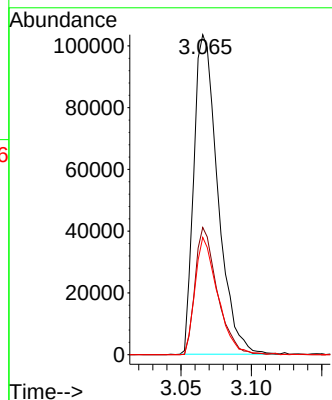
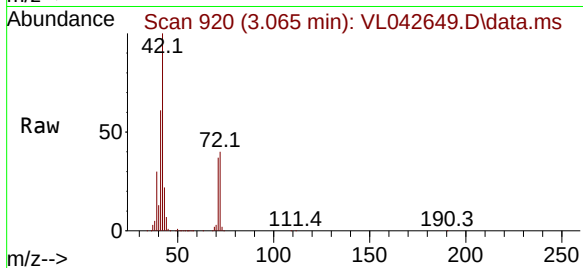




#41
Tetrahydrofuran
Concen: 10.599 ppbv
RT: 3.065 min Scan# 918
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

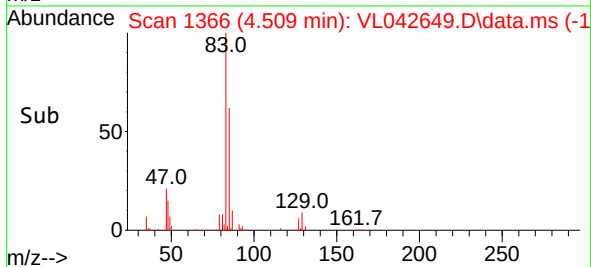
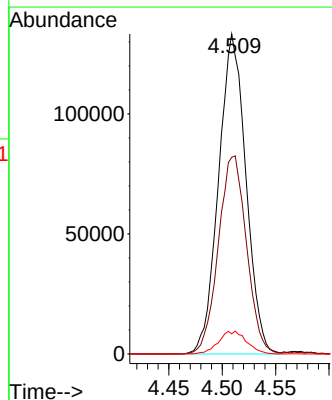
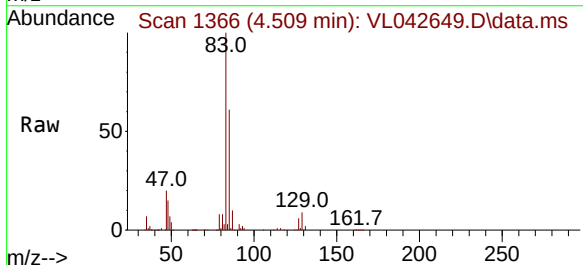
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

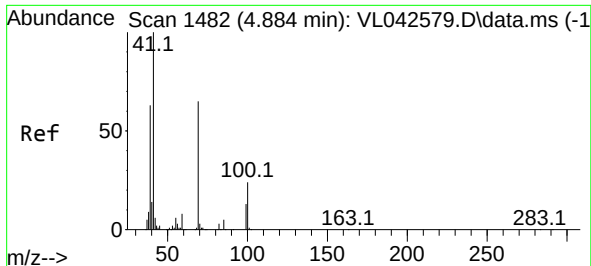
Tgt Ion: 42 Resp: 122612
Ion Ratio Lower Upper
42 100
72 37.0 28.9 43.3
71 34.7 28.5 42.7



#42
Bromodichloromethane
Concen: 12.314 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 83 Resp: 237205
Ion Ratio Lower Upper
83 100
85 61.4 52.7 79.1
127 6.3 5.8 8.6

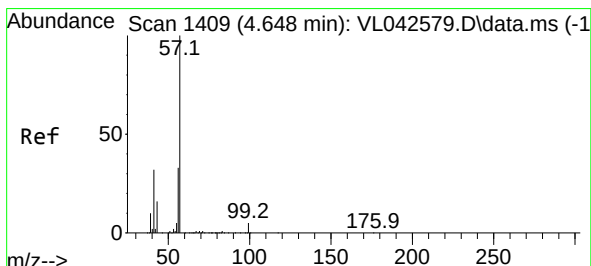
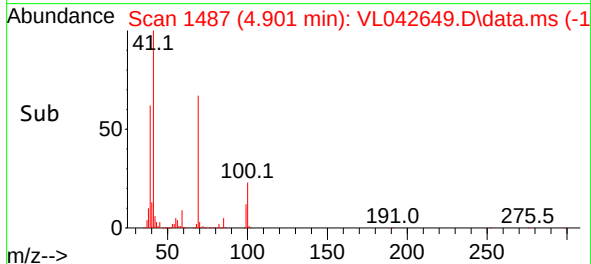
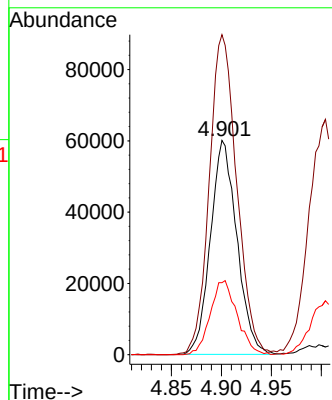
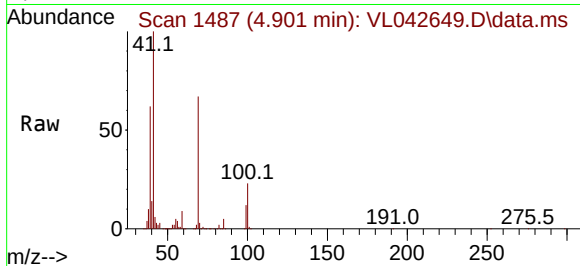




#43
Methyl Methacrylate
Concen: 10.443 ppbv
RT: 4.901 min Scan# 1412
Delta R.T. 0.016 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

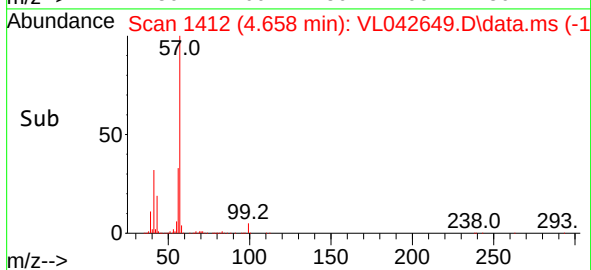
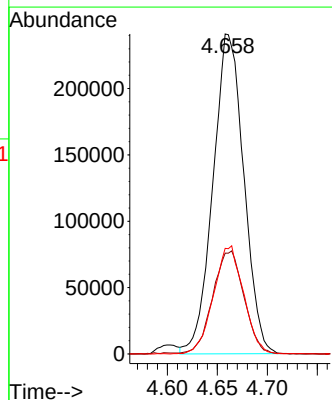
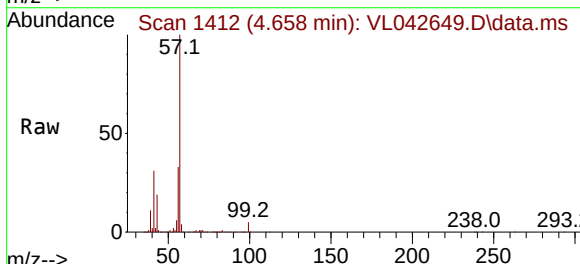
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

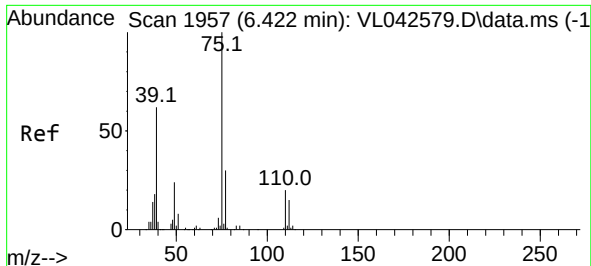
Tgt Ion: 69 Resp: 110610
Ion Ratio Lower Upper
69 100
41 155.2 124.6 187.0
100 35.2 29.9 44.9



#44
2,2,4-Trimethylpentane
Concen: 11.070 ppbv
RT: 4.658 min Scan# 1412
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 57 Resp: 516730
Ion Ratio Lower Upper
57 100
41 33.2 26.1 39.1
56 33.1 25.9 38.9

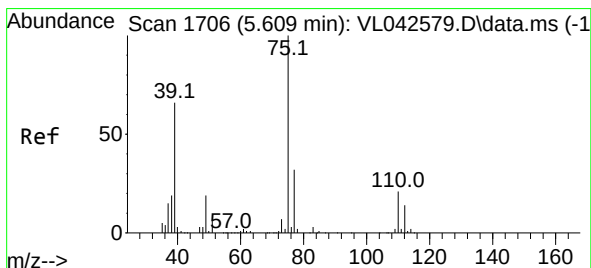
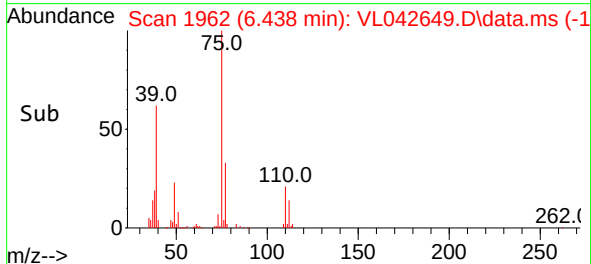
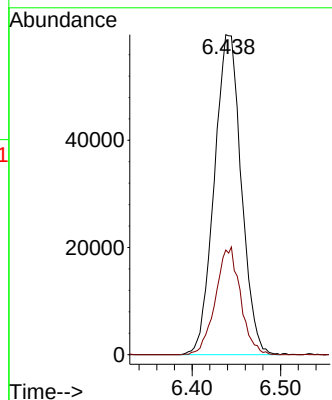
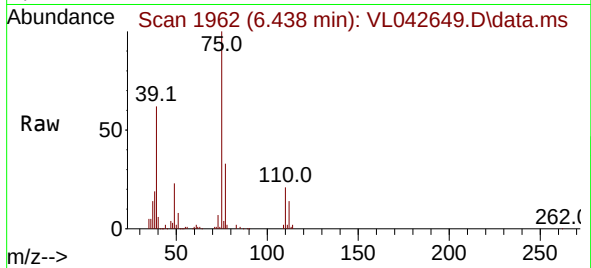




#45
t-1,3-Dichloropropene
Concen: 10.454 ppbv
RT: 6.438 min Scan# 1957
Delta R.T. 0.016 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

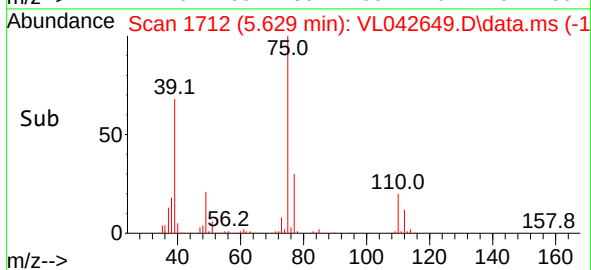
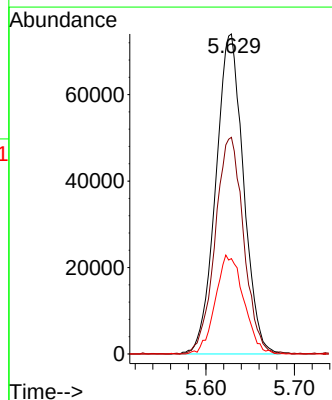
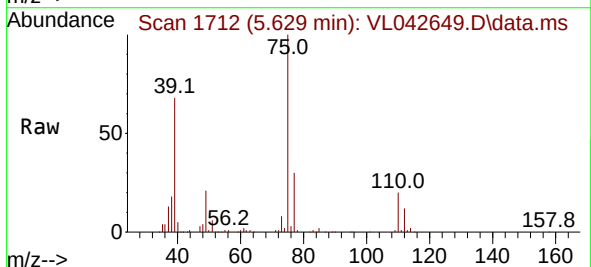
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

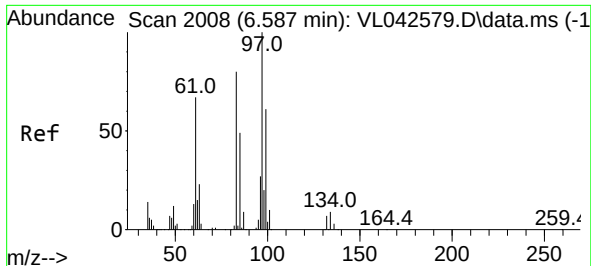
Tgt Ion: 75 Resp: 126703
Ion Ratio Lower Upper
75 100
77 32.7 24.2 36.2



#46
cis-1,3-Dichloropropene
Concen: 10.593 ppbv
RT: 5.629 min Scan# 1712
Delta R.T. 0.019 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 75 Resp: 160871
Ion Ratio Lower Upper
75 100
39 67.7 52.7 79.1
77 29.8 25.8 38.8

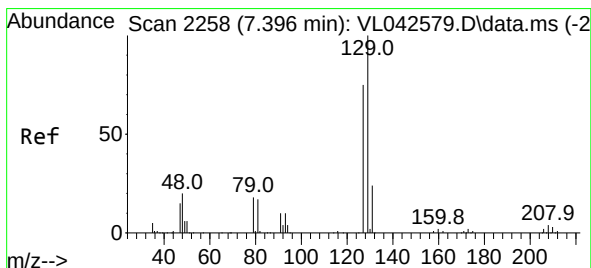
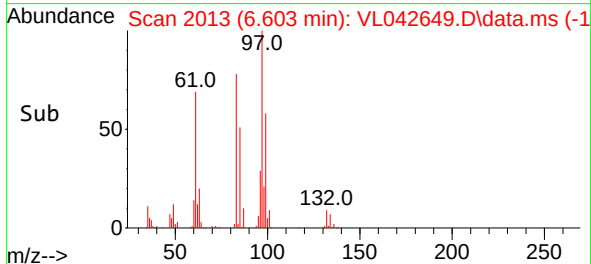
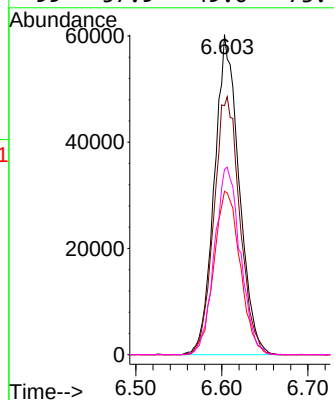
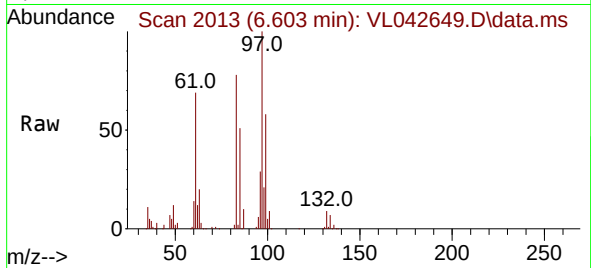




#47
1,1,2-Trichloroethane
Concen: 11.520 ppbv
RT: 6.603 min Scan# 20
Delta R.T. 0.016 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

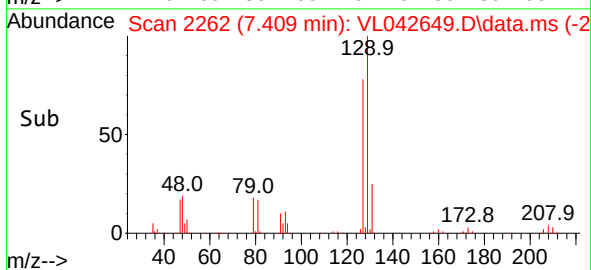
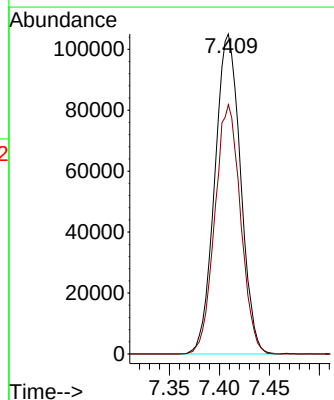
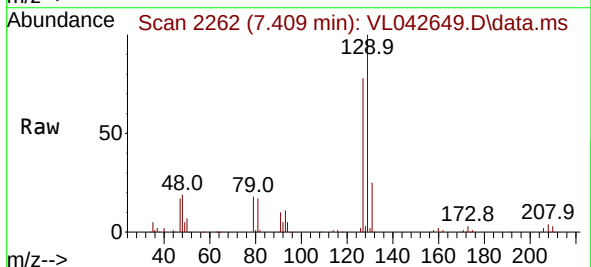
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

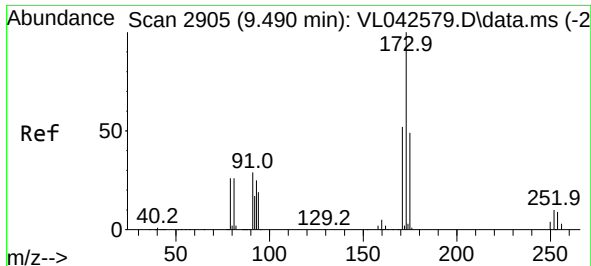
Tgt Ion: 97	Resp: 120343
Ion Ratio	Lower Upper
97 100	
83 77.9	63.9 95.9
85 51.0	39.2 58.8
99 57.9	49.0 73.4



#48
Dibromochloromethane
Concen: 11.251 ppbv
RT: 7.409 min Scan# 2262
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion:129	Resp: 188153
Ion Ratio	Lower Upper
129 100	
127 77.8	39.0 116.9

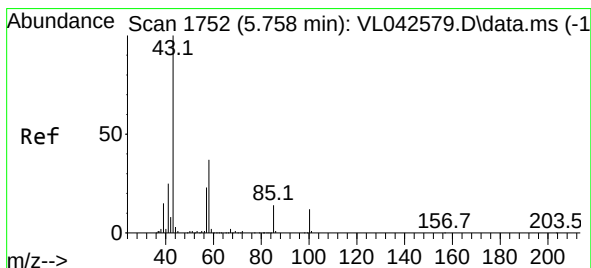
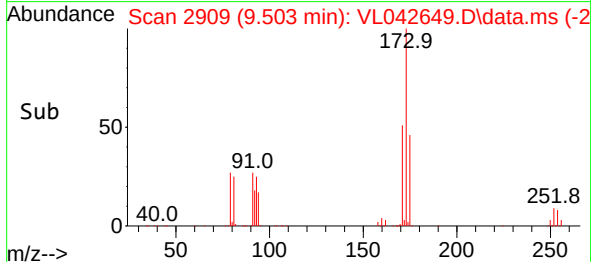
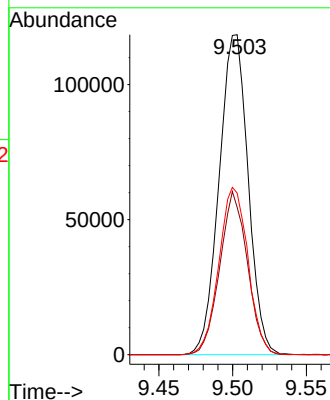
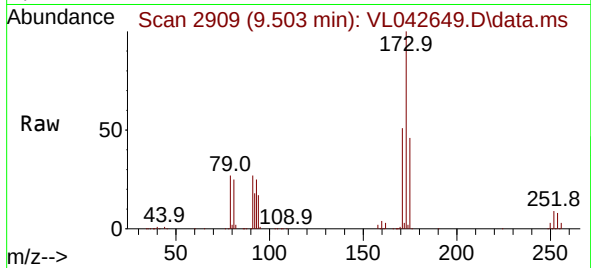




#49
Bromoform
Concen: 11.251 ppbv
RT: 9.503 min Scan# 2905
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

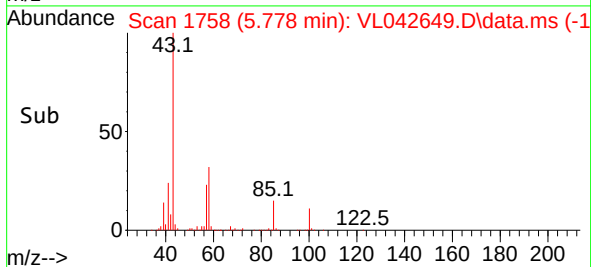
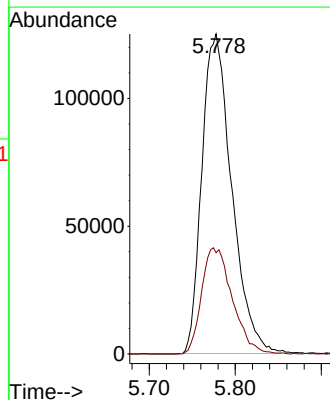
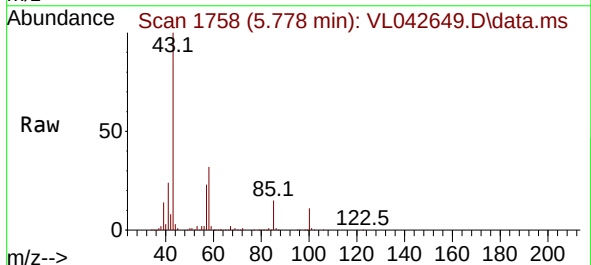
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

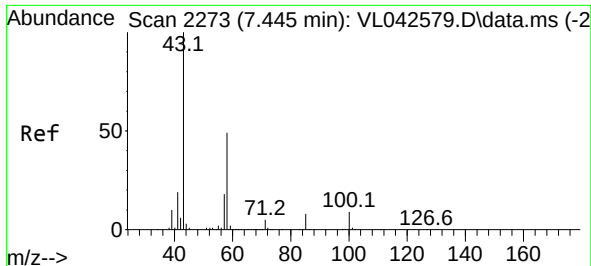
Tgt Ion:173 Resp: 162341
Ion Ratio Lower Upper
173 100
175 48.5 38.7 58.1
171 52.5 41.2 61.8



#50
4-Methyl-2-Pentanone
Concen: 10.974 ppbv
RT: 5.778 min Scan# 1758
Delta R.T. 0.019 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 43 Resp: 300801
Ion Ratio Lower Upper
43 100
58 34.3 28.3 42.5

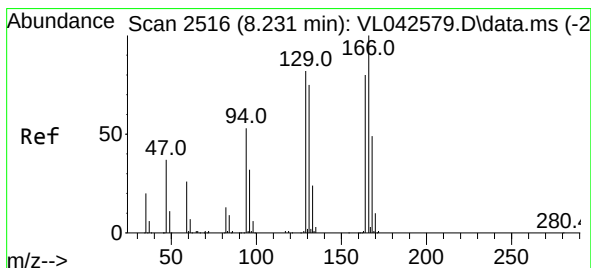
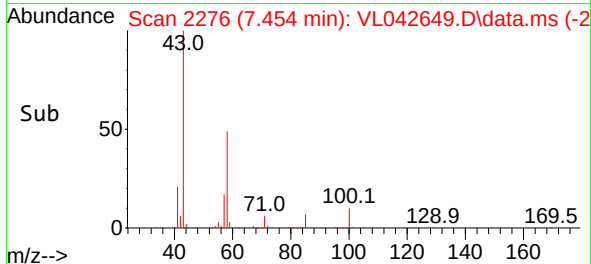
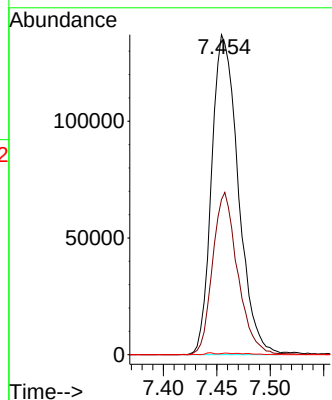
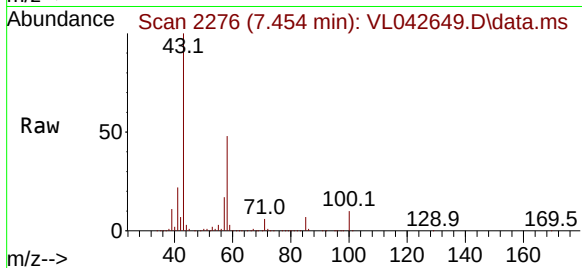




#51
2-Hexanone
Concen: 10.935 ppbv
RT: 7.454 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

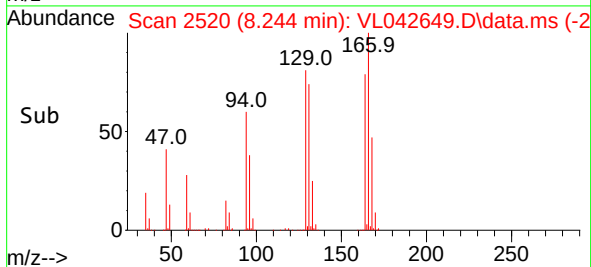
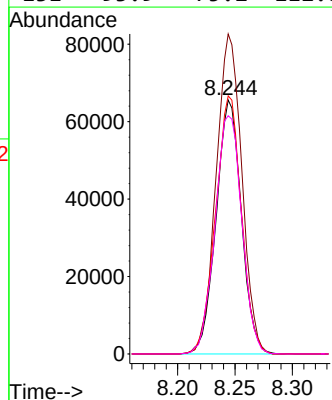
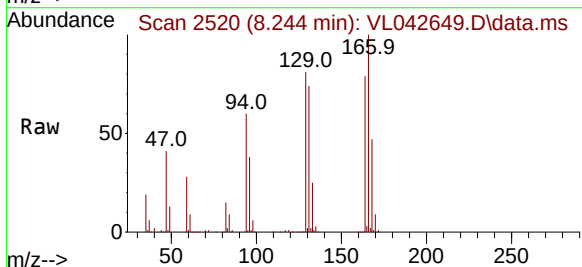
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

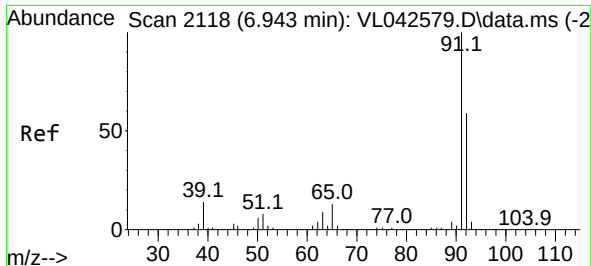
Tgt Ion: 43 Resp: 237712
Ion Ratio Lower Upper
43 100
58 47.9 39.9 59.9
98 0.7 0.1 0.1#



#52
Tetrachloroethene
Concen: 9.816 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion:164 Resp: 100098
Ion Ratio Lower Upper
164 100
166 126.0 100.0 150.0
129 101.6 82.2 123.4
131 93.9 75.2 112.8

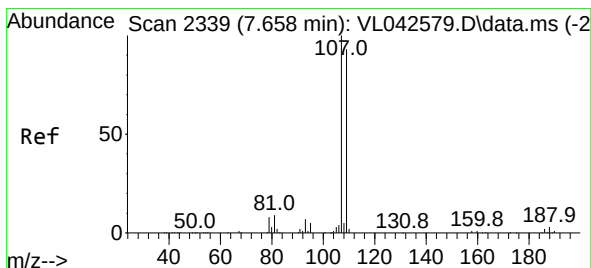
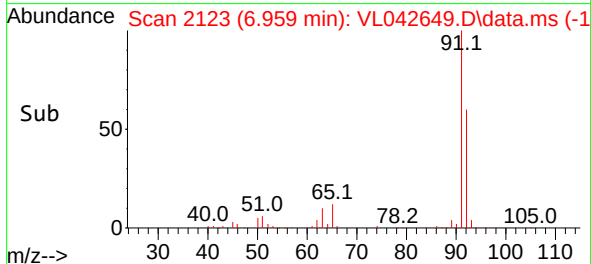
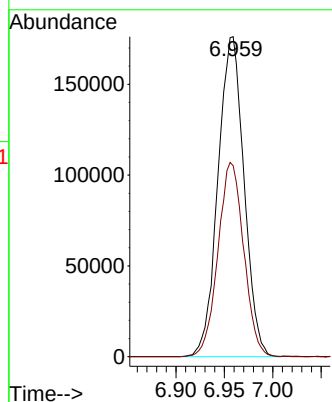
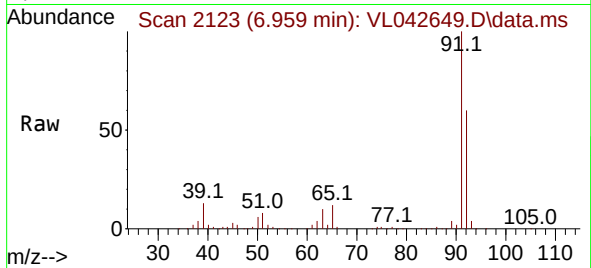




#53
Toluene
Concen: 10.467 ppbv
RT: 6.959 min Scan# 2118
Delta R.T. 0.016 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

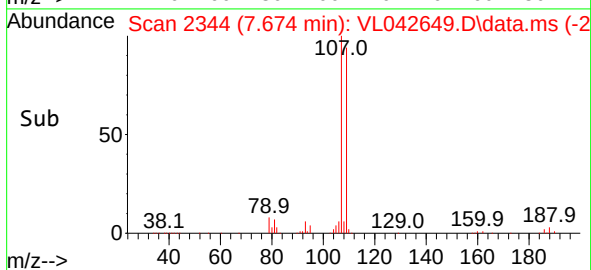
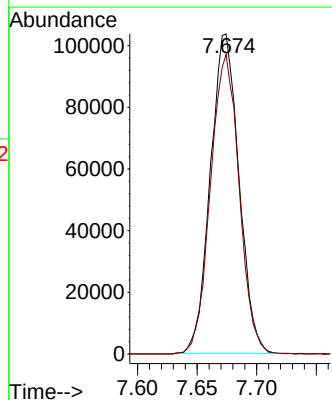
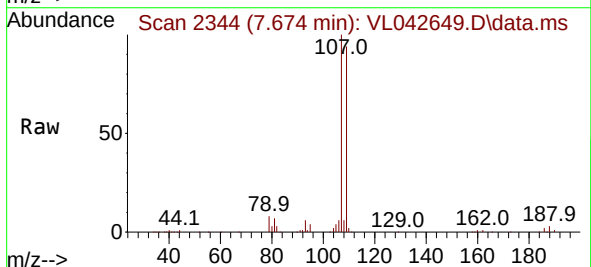
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

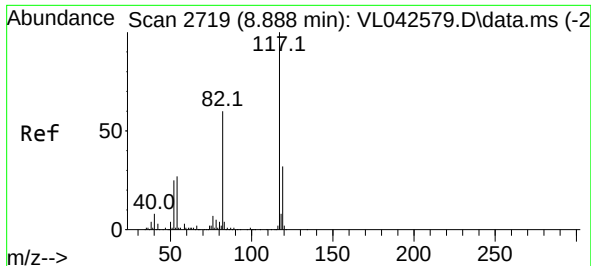
Tgt Ion: 91 Resp: 330131
Ion Ratio Lower Upper
91 100
92 60.0 48.2 72.4



#54
1,2-Dibromoethane
Concen: 11.166 ppbv
RT: 7.674 min Scan# 2344
Delta R.T. 0.016 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 107 Resp: 172654
Ion Ratio Lower Upper
107 100
109 93.6 74.3 111.5

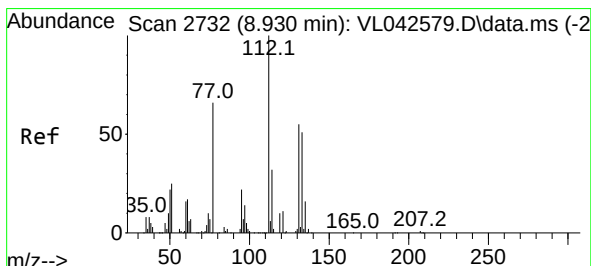
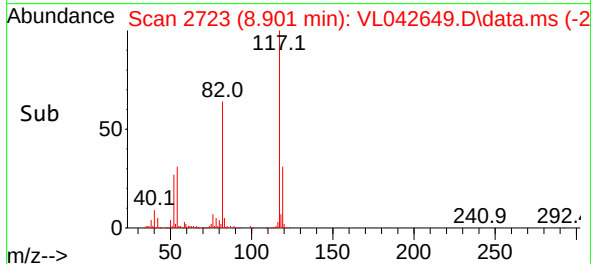
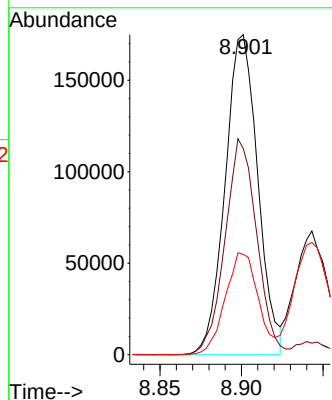
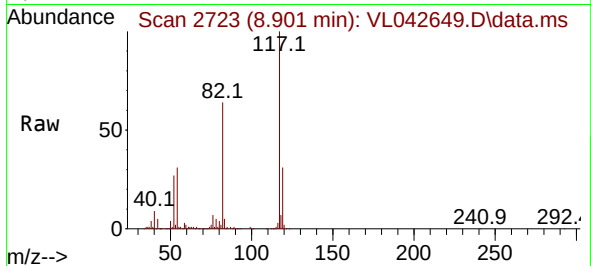




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

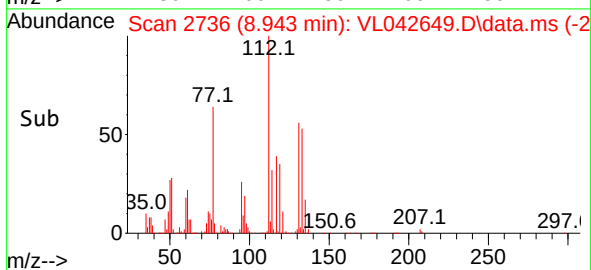
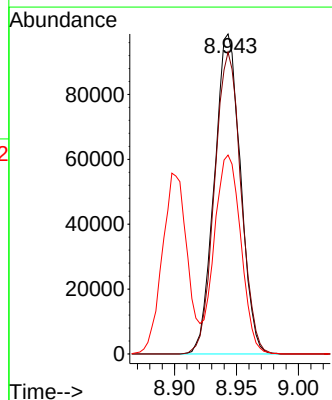
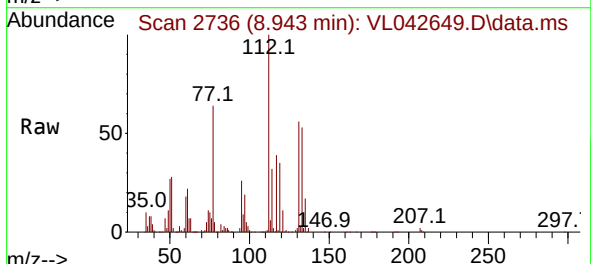
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

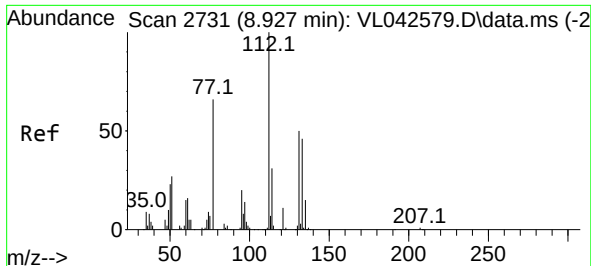
Tgt Ion:117 Resp: 244062
Ion Ratio Lower Upper
117 100
82 69.5 51.2 76.8
119 32.2 26.3 39.5



#56
1,1,1,2-Tetrachloroethane
Concen: 11.799 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion:131 Resp: 144799
Ion Ratio Lower Upper
131 100
133 95.5 75.0 112.6
119 64.6 50.8 76.2

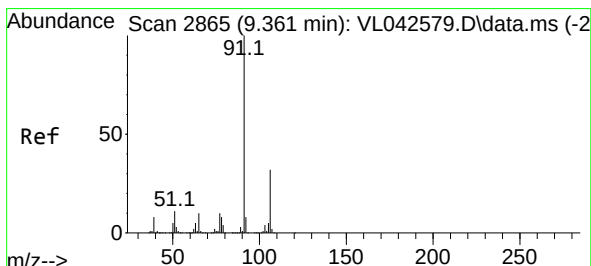
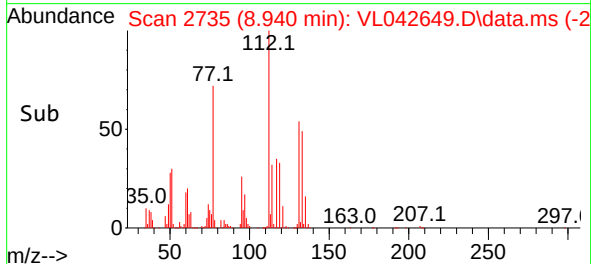
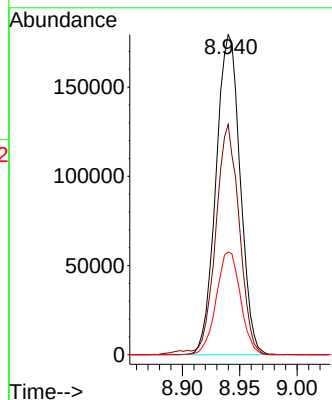
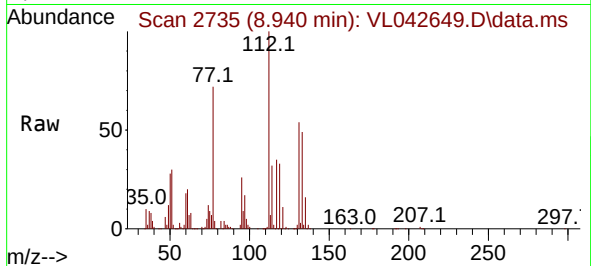




#57
Chlorobenzene
Concen: 11.120 ppbv
RT: 8.940 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

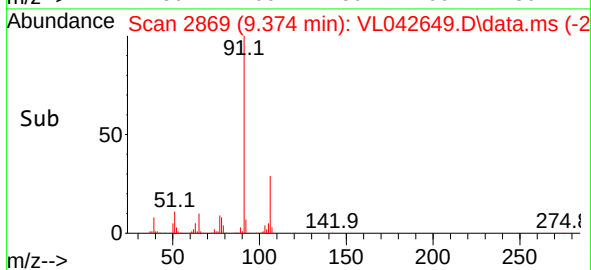
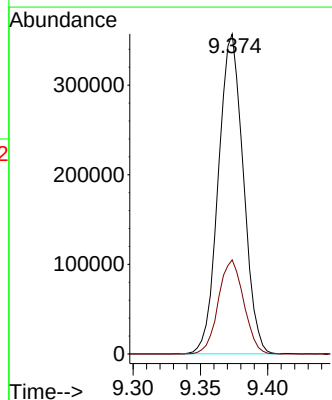
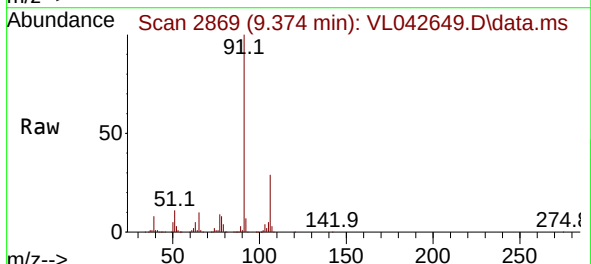
Instrument :
MSVOA_1
ClientSampleId :
VL0619ABS01

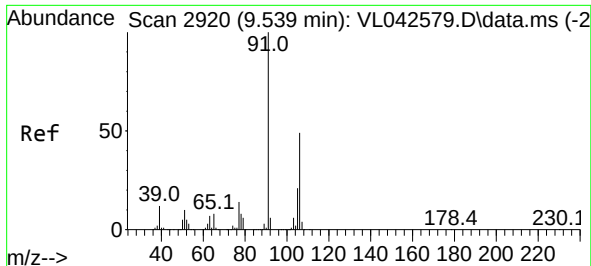
Tgt Ion:112 Resp: 263529
Ion Ratio Lower Upper
112 100
77 71.9 53.5 80.3
114 32.1 27.8 34.0



#58
Ethyl Benzene
Concen: 11.085 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 91 Resp: 458900
Ion Ratio Lower Upper
91 100
106 29.4 25.9 38.9





#59

m/p-Xylene

Concen: 11.763 ppbv

RT: 9.548 min Scan# 29

Delta R.T. 0.010 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

Instrument :

MSVOA_L

ClientSampleId :

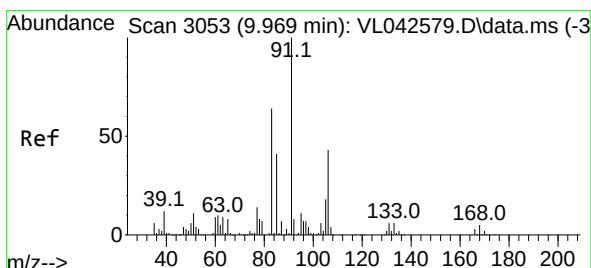
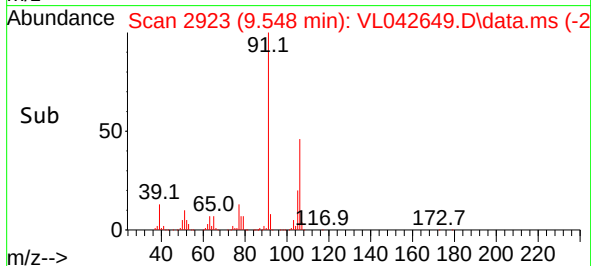
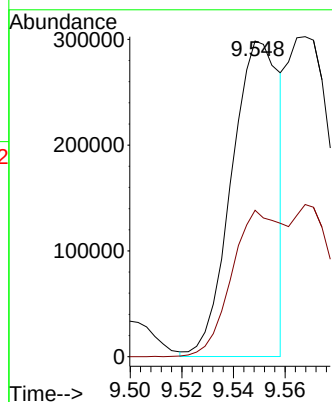
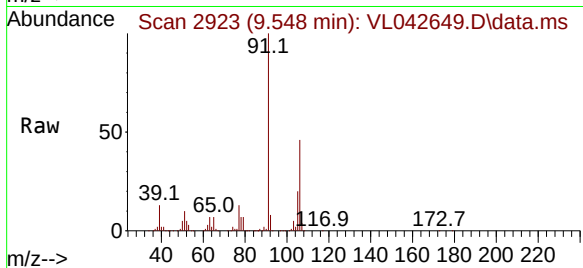
VL0619ABS01

Tgt Ion: 91 Resp: 383214

Ion Ratio Lower Upper

91 100

106 0.0 38.8 58.2#



#60

o-Xylene

Concen: 11.715 ppbv

RT: 9.982 min Scan# 3057

Delta R.T. 0.013 min

Lab File: VL042649.D

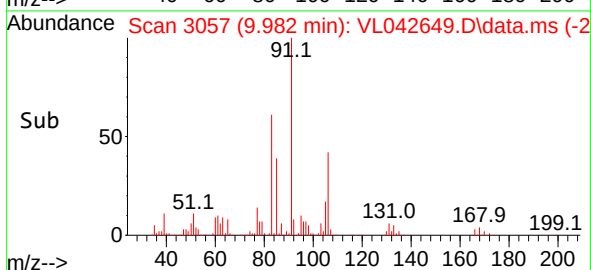
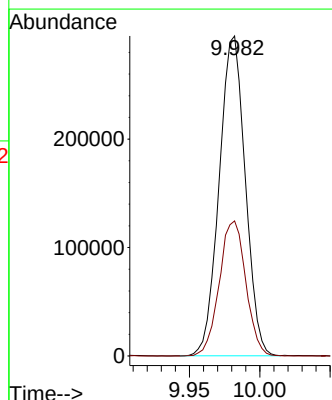
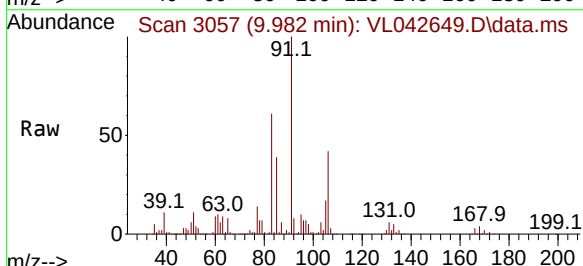
Acq: 19 Jun 2025 10:26

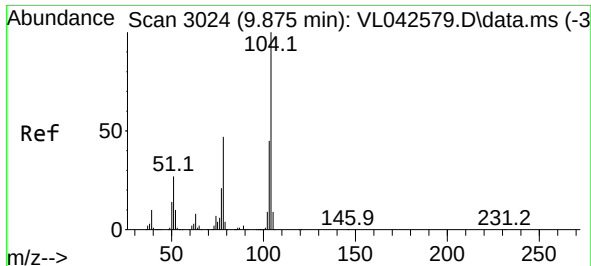
Tgt Ion: 91 Resp: 380653

Ion Ratio Lower Upper

91 100

106 43.0 22.9 68.5

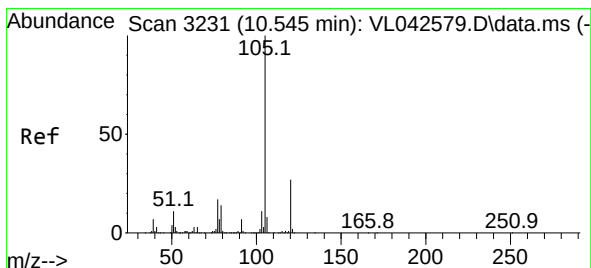
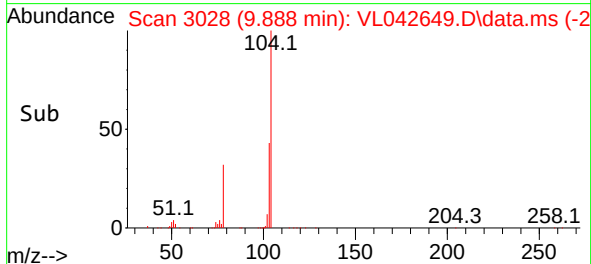
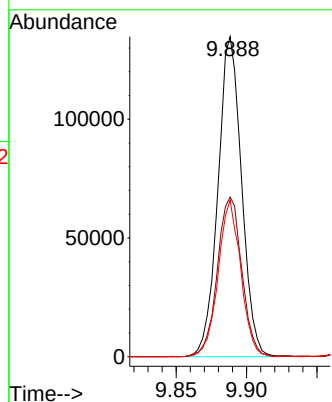
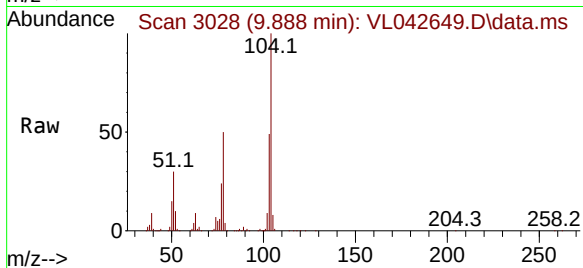




#61
Styrene
Concen: 10.253 ppbv
RT: 9.888 min Scan# 3024
Delta R.T. 0.013 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

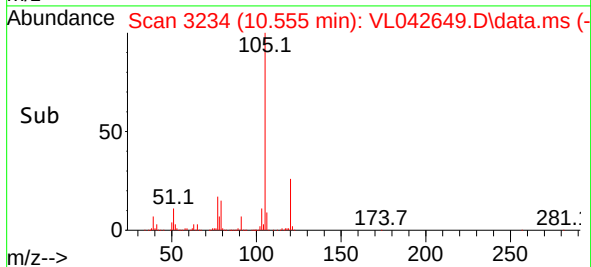
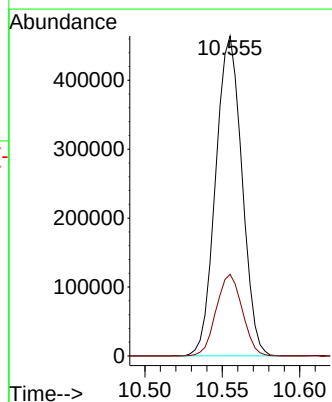
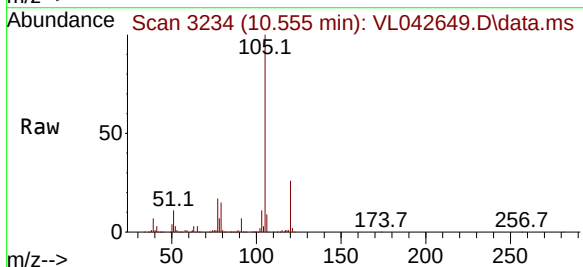
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

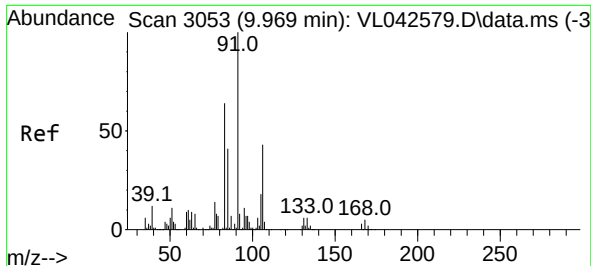
Tgt Ion:104 Resp: 157508
Ion Ratio Lower Upper
104 100
78 51.8 38.2 57.4
103 47.0 36.7 55.1



#62
Isopropylbenzene
Concen: 11.407 ppbv
RT: 10.555 min Scan# 3234
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion:105 Resp: 547590
Ion Ratio Lower Upper
105 100
120 25.3 20.9 31.3

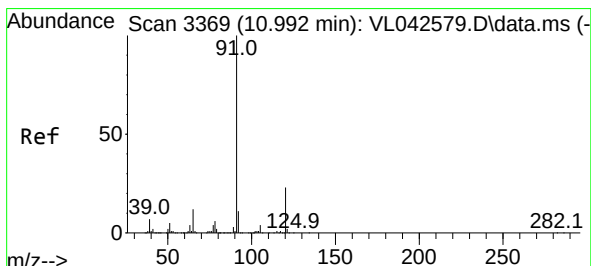
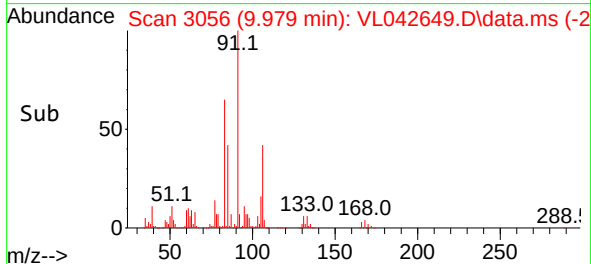
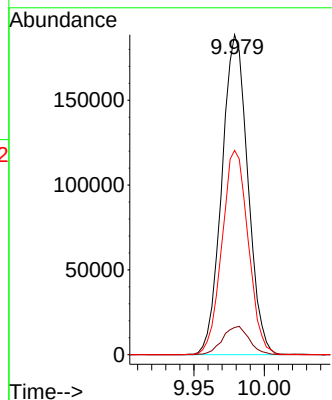
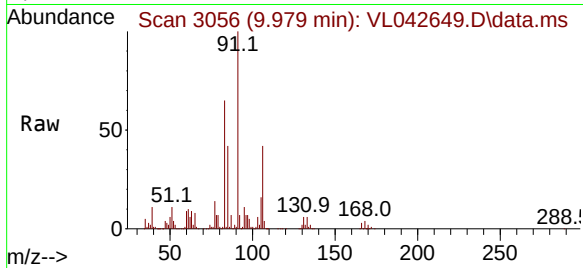




#63
1,1,2,2-Tetrachloroethane
Concen: 11.726 ppbv
RT: 9.979 min Scan# 3053
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

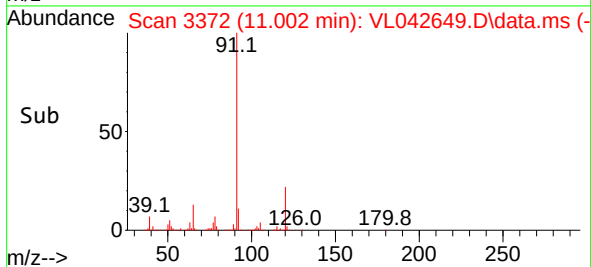
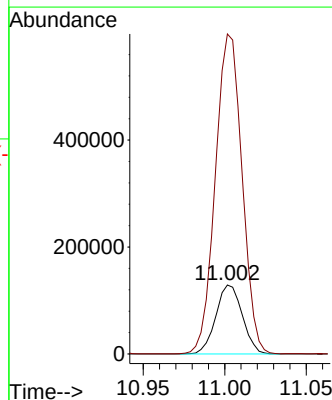
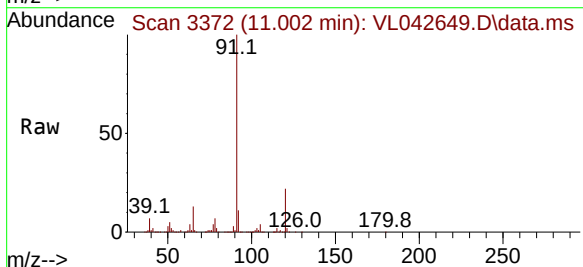
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

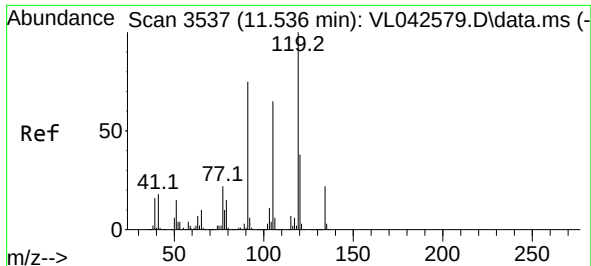
Tgt Ion: 83 Resp: 242285
Ion Ratio Lower Upper
83 100
131 9.1 4.8 14.4
85 64.6 32.5 97.4



#64
n-propylbenzene
Concen: 11.293 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 120 Resp: 145308
Ion Ratio Lower Upper
120 100
91 470.5 363.0 544.6

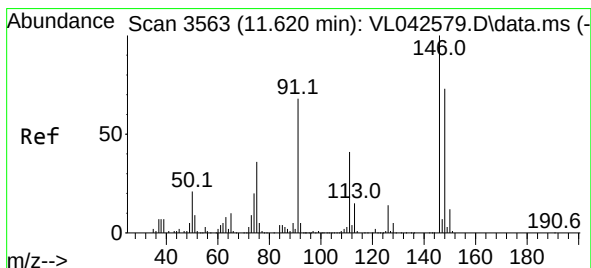
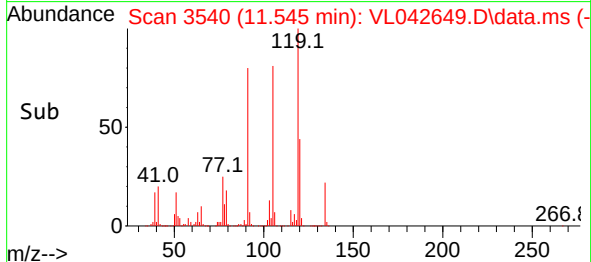
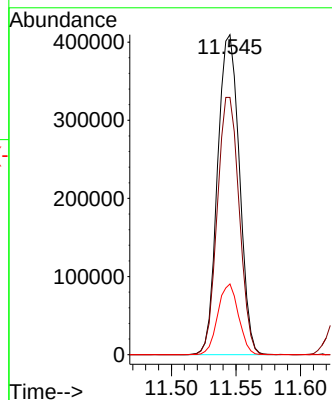
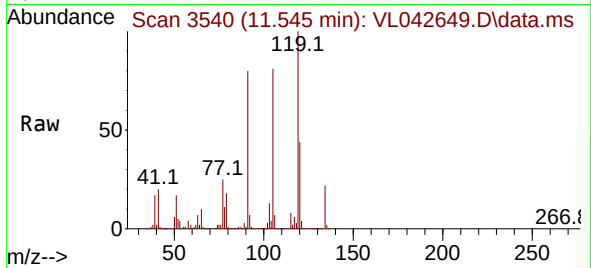




#65
 tert-Butylbenzene
 Concen: 11.028 ppbv
 RT: 11.545 min Scan# 3540
 Delta R.T. 0.010 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

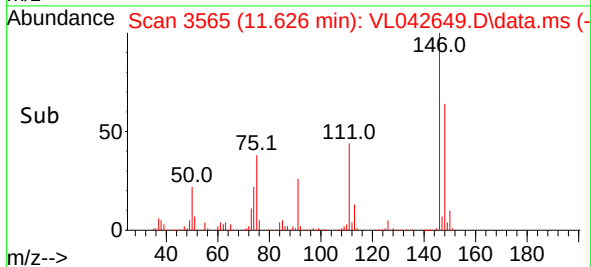
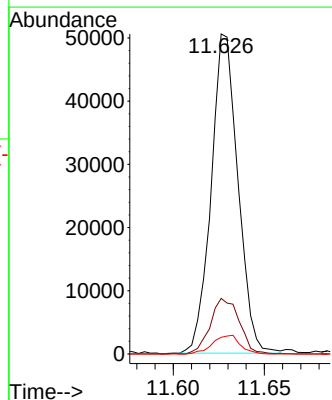
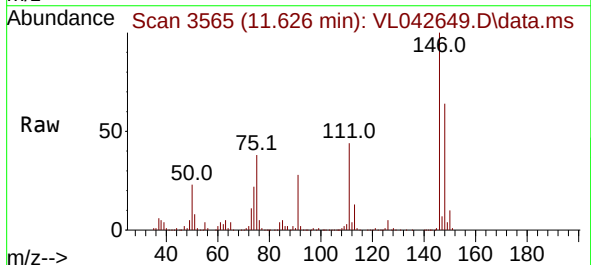
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0619ABS01

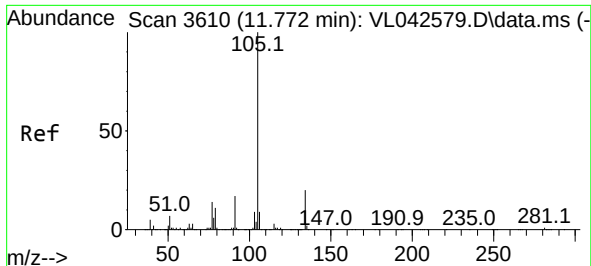
Tgt Ion:119 Resp: 480384
 Ion Ratio Lower Upper
 119 100
 91 80.8 61.1 91.7
 134 21.0 17.4 26.2



#66
 Benzyl Chloride
 Concen: 9.238 ppbv
 RT: 11.626 min Scan# 3565
 Delta R.T. 0.007 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

Tgt Ion: 91 Resp: 51799
 Ion Ratio Lower Upper
 91 100
 126 18.8 15.1 22.7
 128 6.0 5.0 7.6

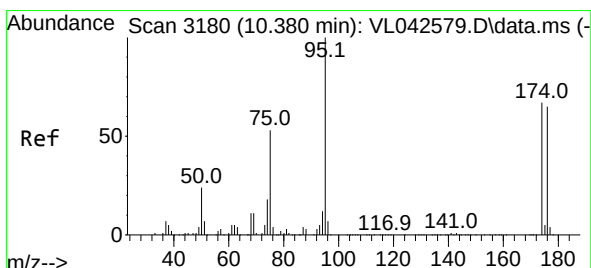
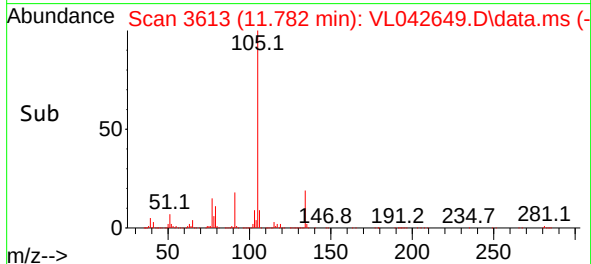
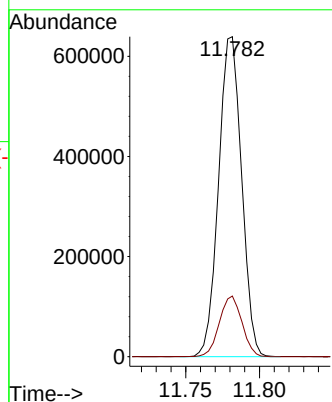
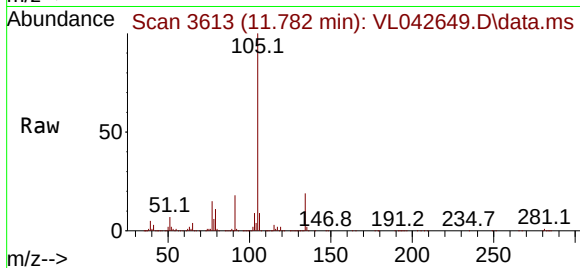




#67
 sec-Butylbenzene
 Concen: 11.334 ppbv
 RT: 11.782 min Scan# 3613
 Delta R.T. 0.010 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

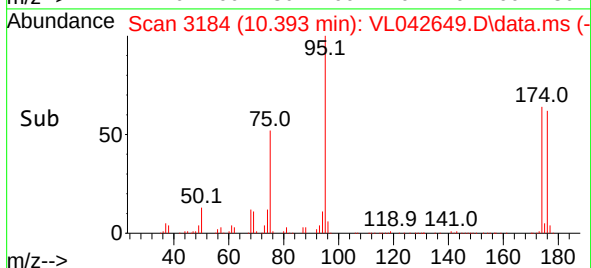
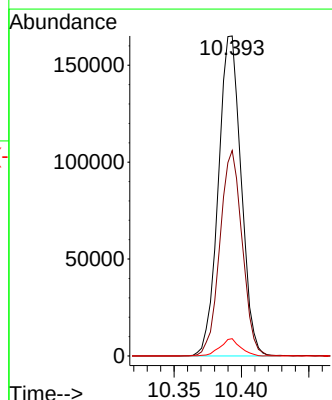
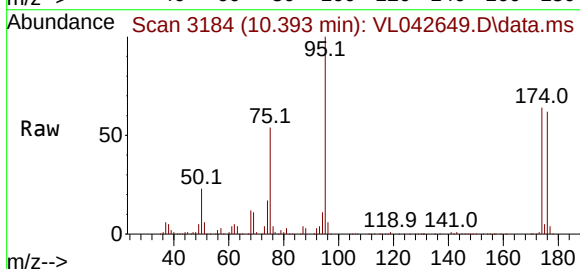
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0619ABS01

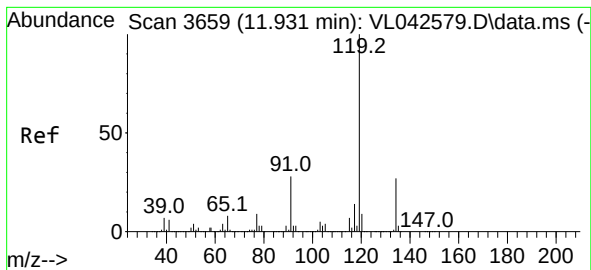
Tgt Ion:105 Resp: 694122
 Ion Ratio Lower Upper
 105 100
 134 18.6 15.8 23.6



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.624 ppbv
 RT: 10.393 min Scan# 3184
 Delta R.T. 0.013 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

Tgt Ion: 95 Resp: 194374
 Ion Ratio Lower Upper
 95 100
 174 62.8 53.1 79.7
 175 4.9 4.2 6.2





#69

p-Isopropyltoluene

Concen: 11.239 ppbv

RT: 11.937 min Scan# 3

Delta R.T. 0.006 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

Instrument :

MSVOA_1

ClientSampleId :

VL0619ABS01

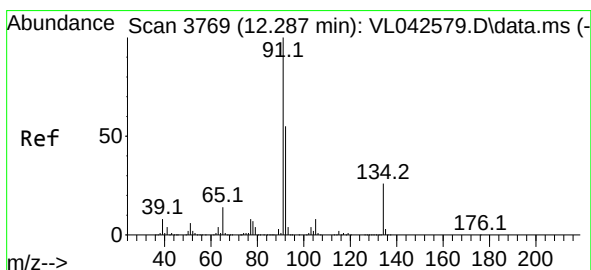
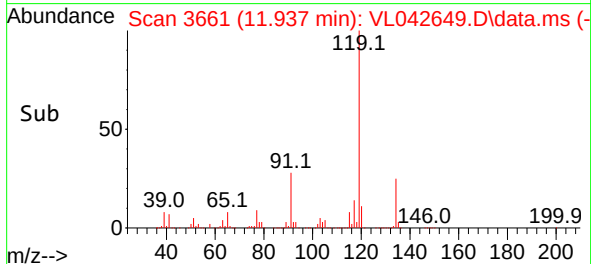
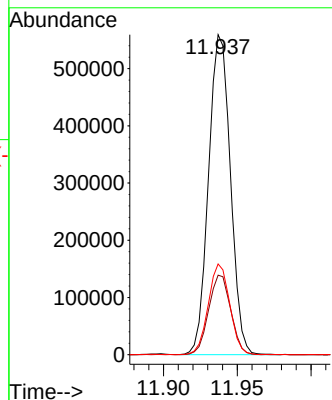
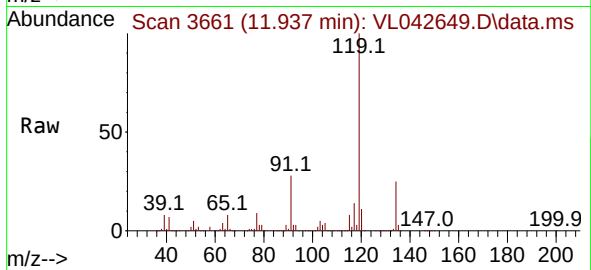
Tgt Ion:119 Resp: 576427

Ion Ratio Lower Upper

119 100

134 25.2 21.1 31.7

91 28.1 21.9 32.9



#70

n-Butylbenzene

Concen: 11.728 ppbv

RT: 12.293 min Scan# 3771

Delta R.T. 0.007 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

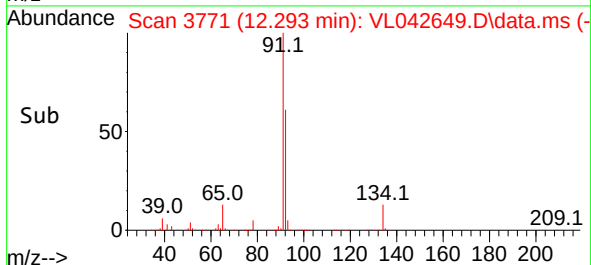
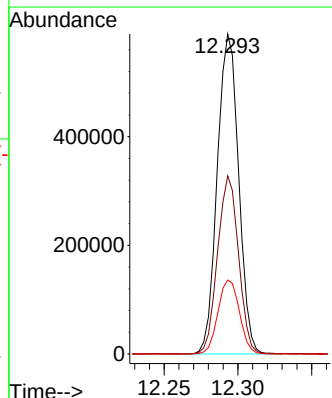
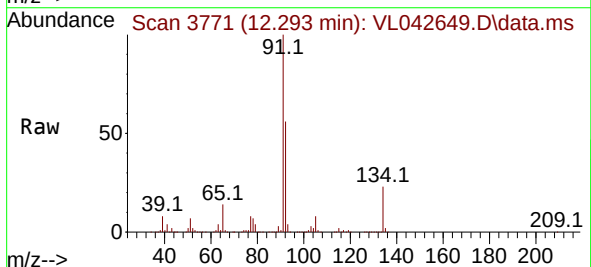
Tgt Ion: 91 Resp: 593718

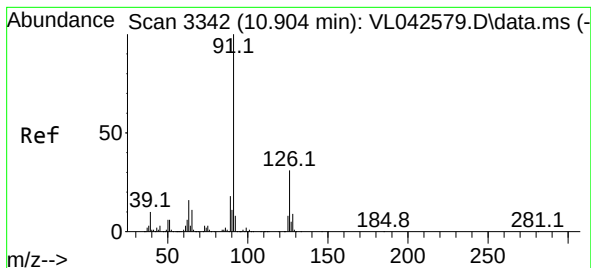
Ion Ratio Lower Upper

91 100

92 54.6 44.4 66.6

134 23.2 20.1 30.1

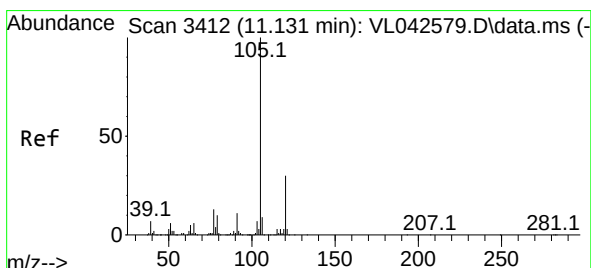
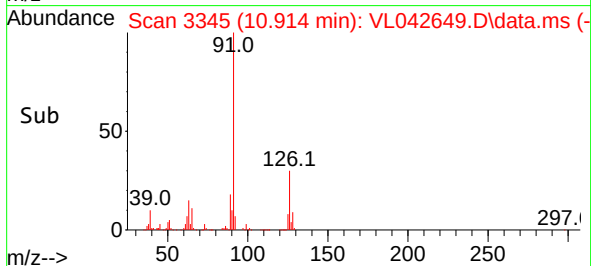
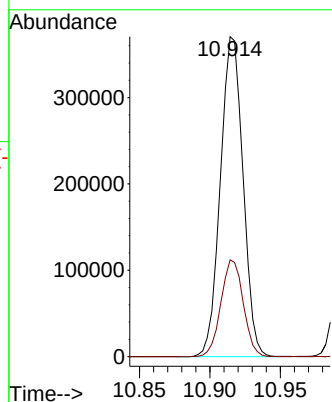
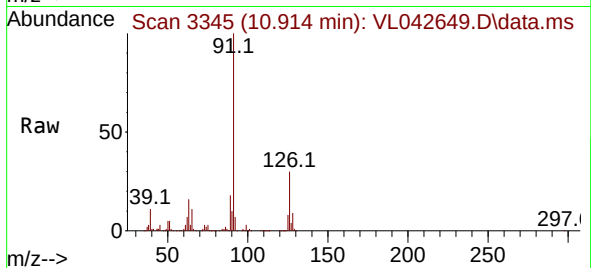




#71
2-Chlorotoluene
Concen: 11.330 ppbv
RT: 10.914 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

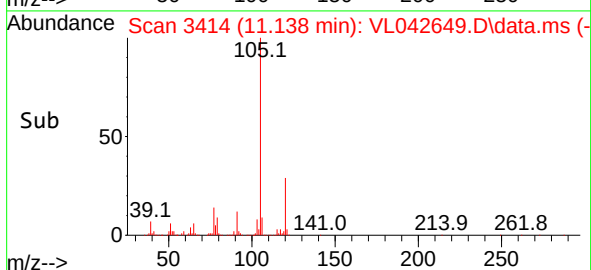
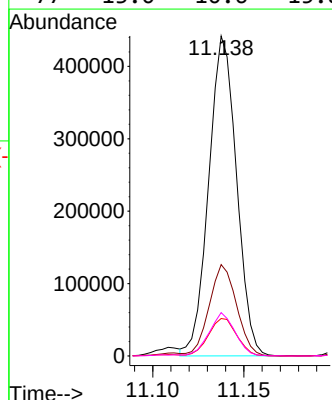
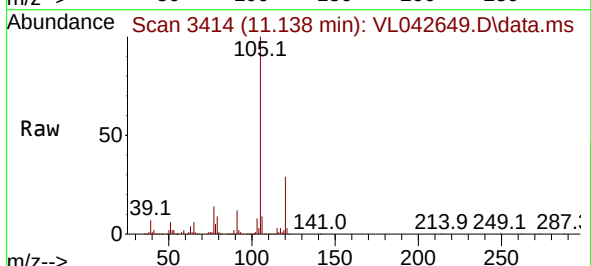
Instrument :
MSVOA_1
ClientSampleId :
VL0619ABS01

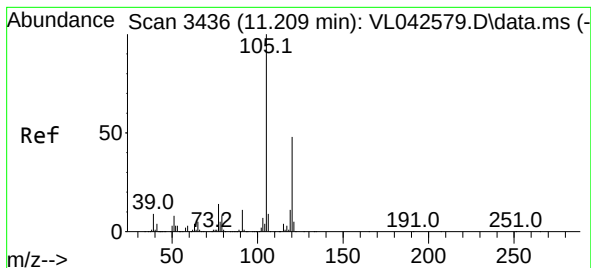
Tgt Ion: 91 Resp: 414838
Ion Ratio Lower Upper
91 100
126 29.8 12.6 50.4



#72
4-Ethyltoluene
Concen: 11.555 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.006 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion:105 Resp: 468085
Ion Ratio Lower Upper
105 100
120 29.0 24.6 36.8
91 12.5 9.6 14.4
77 13.0 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 11.500 ppbv

RT: 11.218 min Scan# 3436

Delta R.T. 0.010 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

Instrument :

MSVOA_1

ClientSampleId :

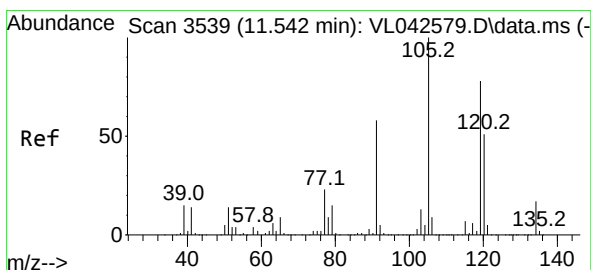
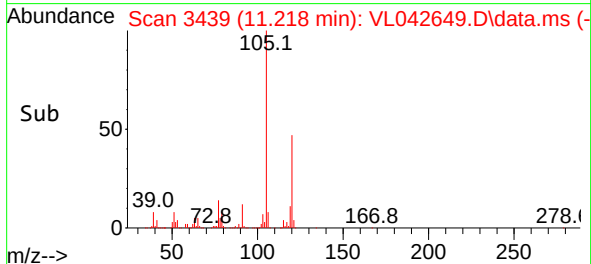
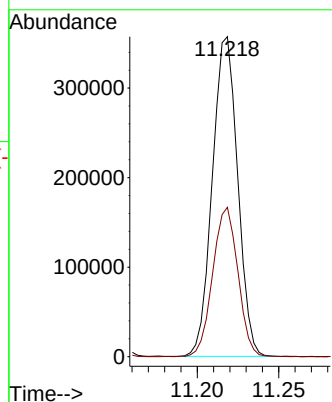
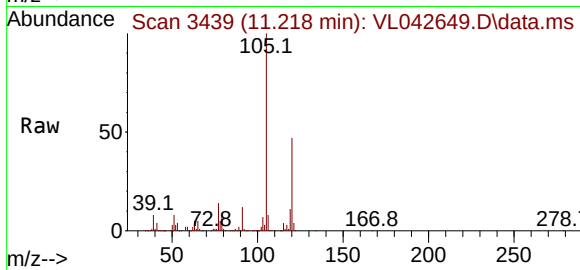
VL0619ABS01

Tgt Ion:105 Resp: 385574

Ion Ratio Lower Upper

105 100

120 46.7 38.8 58.2



#74

1,2,4-Trimethylbenzene

Concen: 11.602 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. 0.010 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

Tgt Ion:105 Resp: 431688

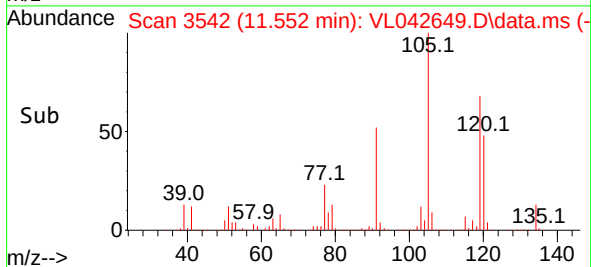
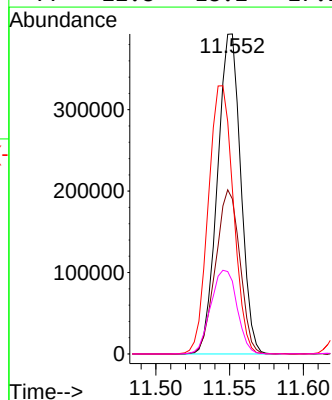
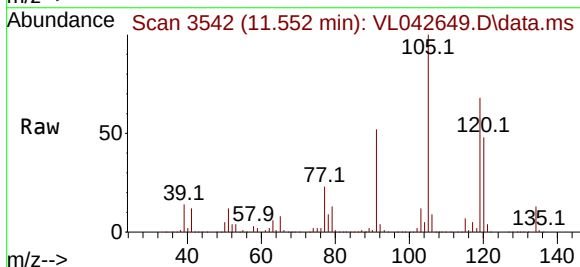
Ion Ratio Lower Upper

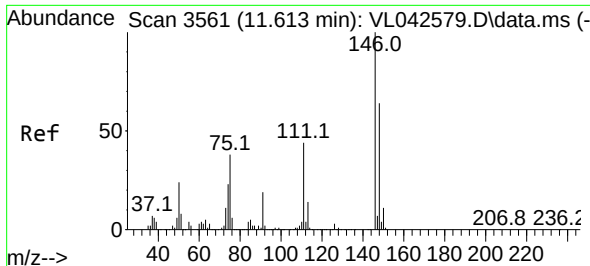
105 100

120 48.4 40.8 61.2

91 51.6 46.8 70.2

77 22.8 18.2 27.2

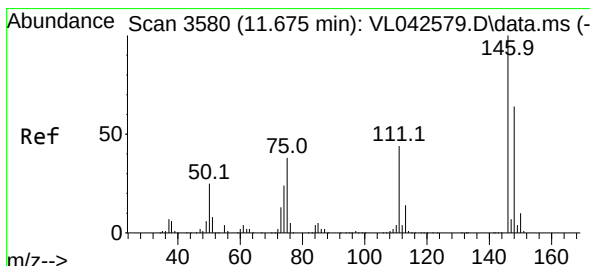
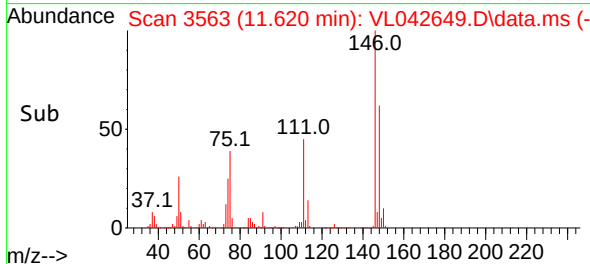
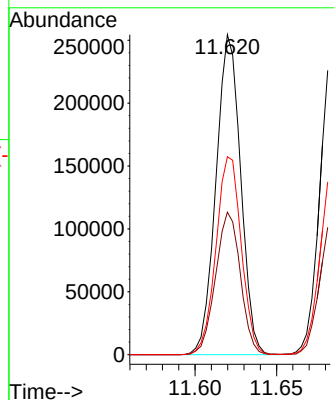
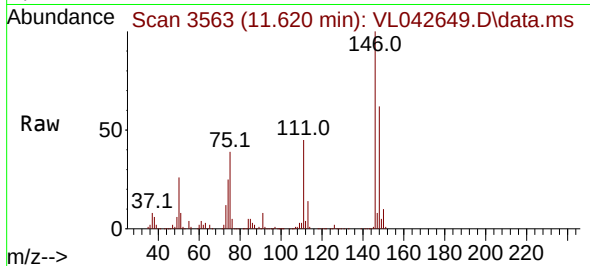




#75
1,3-Dichlorobenzene
Concen: 11.446 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

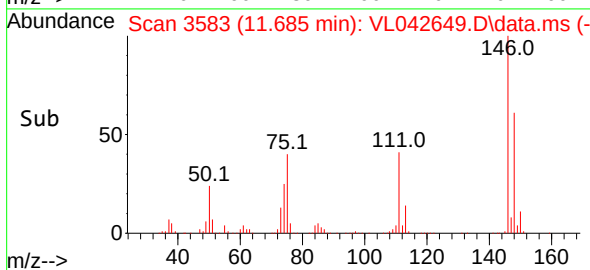
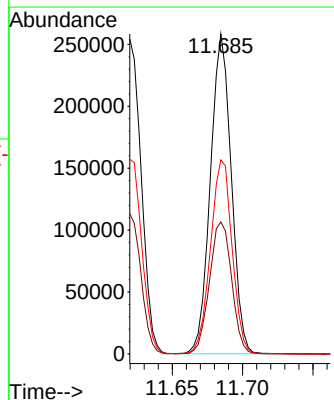
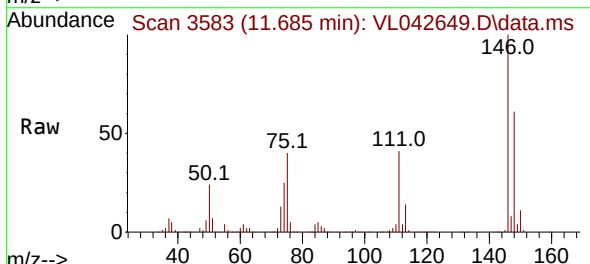
Instrument :
MSVOA_1
ClientSampleId :
VL0619ABS01

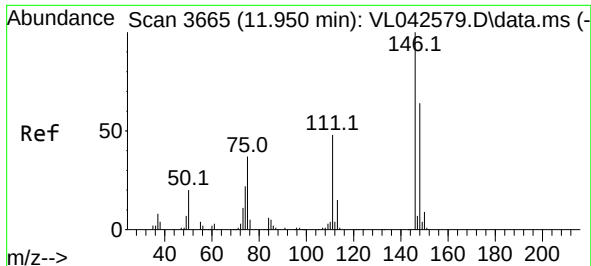
Tgt Ion:146 Resp: 267433
Ion Ratio Lower Upper
146 100
111 44.8 22.4 67.3
148 63.5 32.0 96.2



#76
1,4-Dichlorobenzene
Concen: 11.453 ppbv
RT: 11.685 min Scan# 3583
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion:146 Resp: 266891
Ion Ratio Lower Upper
146 100
111 43.9 21.6 64.8
148 63.1 32.1 96.5

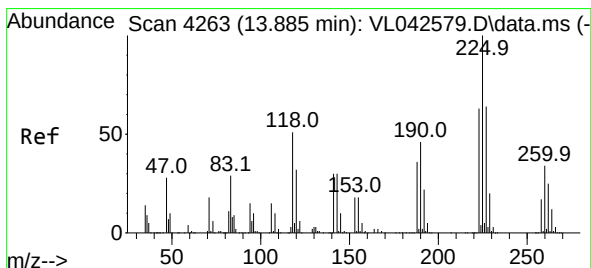
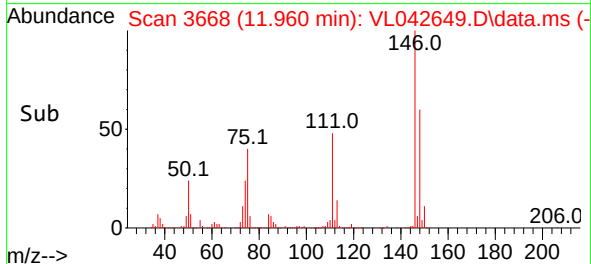
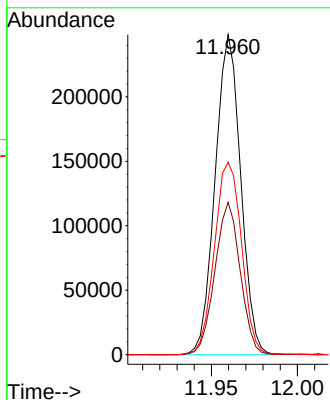
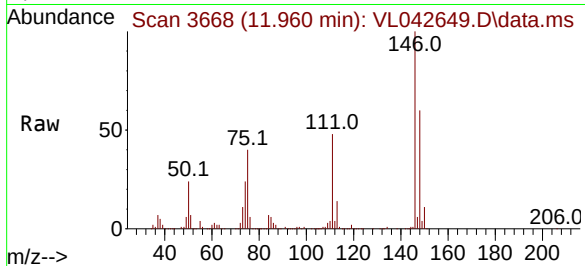




#77
1,2-Dichlorobenzene
Concen: 11.328 ppbv
RT: 11.960 min Scan# 3668
Delta R.T. 0.010 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

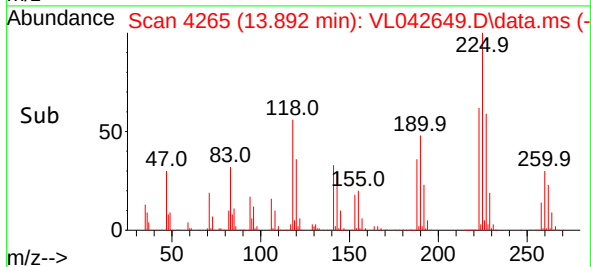
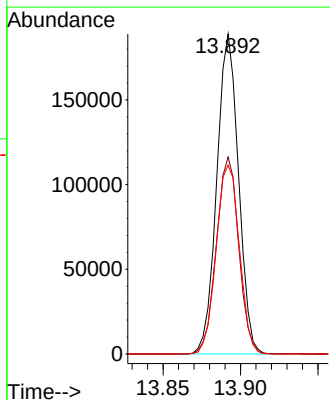
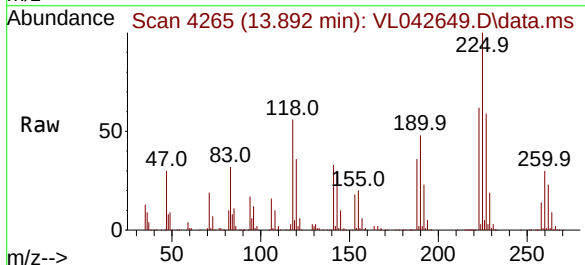
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABS01

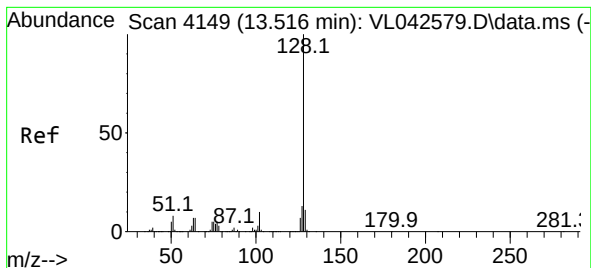
Tgt Ion:146 Resp: 256891
Ion Ratio Lower Upper
146 100
111 47.1 23.1 69.3
148 63.7 32.1 96.3



#78
Hexachloro-1,3-Butadiene
Concen: 9.819 ppbv
RT: 13.892 min Scan# 4265
Delta R.T. 0.007 min
Lab File: VL042649.D
Acq: 19 Jun 2025 10:26

Tgt Ion:225 Resp: 184233
Ion Ratio Lower Upper
225 100
223 63.1 50.2 75.4
227 62.8 51.1 76.7





#79

Naphthalene

Concen: 11.824 ppbv

RT: 13.523 min Scan# 4149

Delta R.T. 0.007 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

Instrument :

MSVOA_L

ClientSampleId :

VL0619ABS01

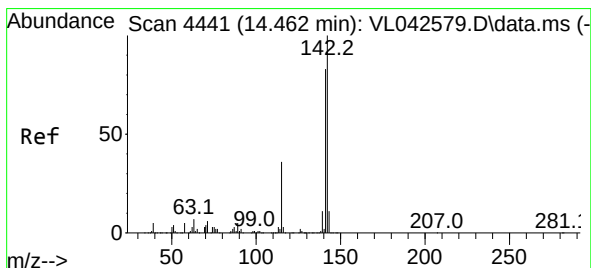
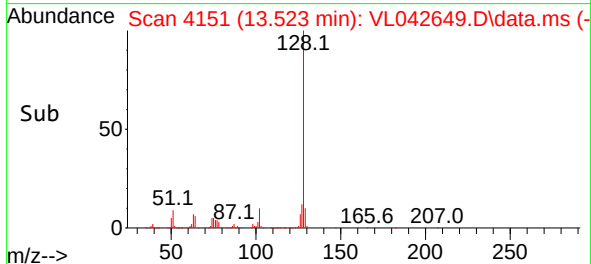
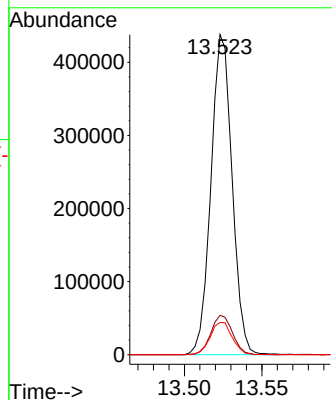
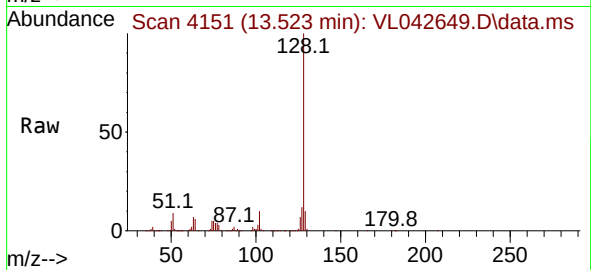
Tgt Ion:128 Resp: 414690

Ion Ratio Lower Upper

128 100

127 12.3 10.2 15.4

129 10.0 8.8 13.2



#80

Naphthalene,2-methyl-

Concen: 12.098 ppbv

RT: 14.468 min Scan# 4443

Delta R.T. 0.007 min

Lab File: VL042649.D

Acq: 19 Jun 2025 10:26

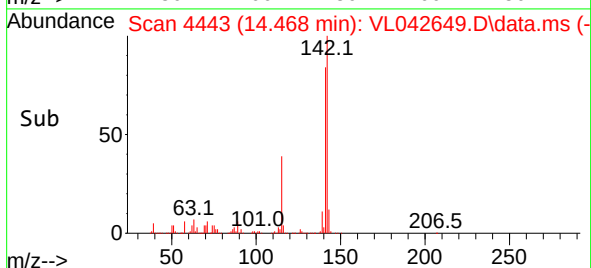
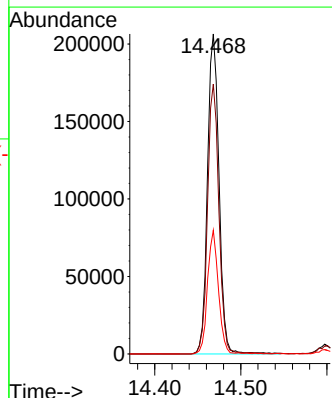
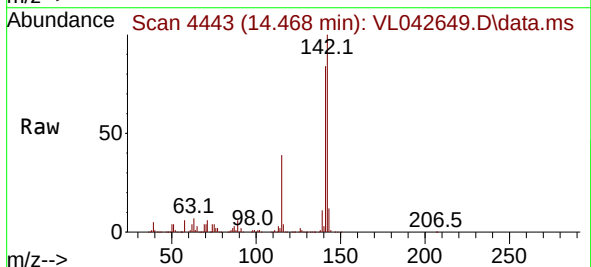
Tgt Ion:142 Resp: 191696

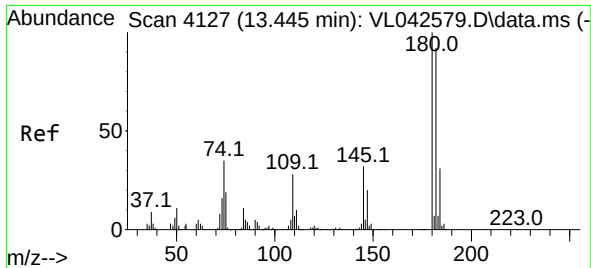
Ion Ratio Lower Upper

142 100

141 83.4 66.2 99.4

115 37.0 28.3 42.5

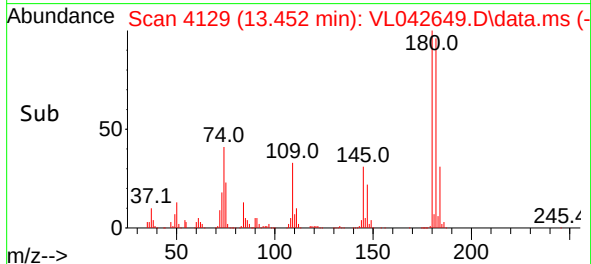
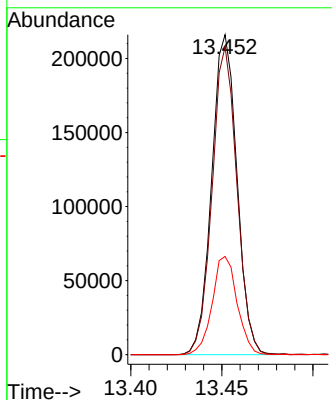
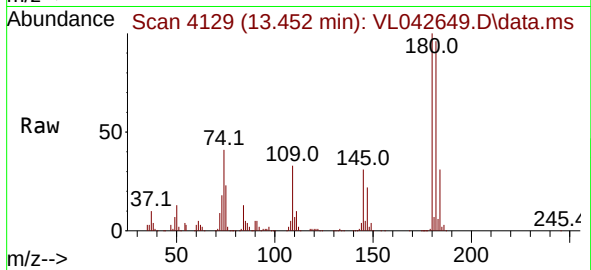




#81
 1,2,4-Trichlorobenzene
 Concen: 10.651 ppbv
 RT: 13.452 min Scan# 41
 Delta R.T. 0.007 min
 Lab File: VL042649.D
 Acq: 19 Jun 2025 10:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABS01

Tgt Ion:180 Resp: 208526
 Ion Ratio Lower Upper
 180 100
 182 94.4 75.0 112.4
 184 30.3 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042650.D
 Acq On : 19 Jun 2025 11:09
 Operator : SY/MD
 Sample : Q2359-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

Quant Time: Jun 20 01:35:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

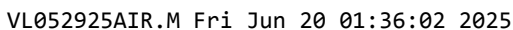
Internal Standards						
1) Bromochloromethane	2.806	49	114585	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	292670	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.904	117	247226	10.000	ppbv	0.02

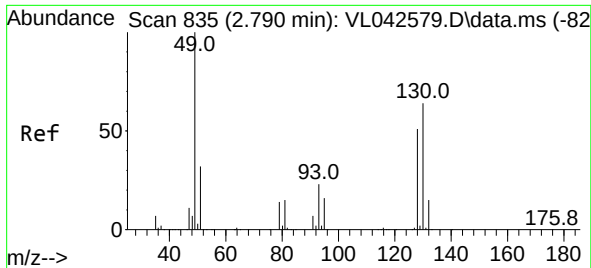
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	187754	10.131	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	835	0.059	ppbv #	88
3) Chlorodifluoromethane	1.463	51	5449	0.281	ppbv #	68
9) Propene	1.486	41	1289	0.165	ppbv #	61
10) Heptane	5.007	43	1975	0.090	ppbv #	32
11) Trichlorofluoromethane	1.894	101	416	0.032	ppbv	98
13) Ethanol	1.732	45	10418	11.192	ppbv #	39
15) Acetone	1.845	43	44863	3.250	ppbv	100
16) 1,3-Butadiene	1.615	39	733	0.112	ppbv #	13
17) tert-Butyl alcohol	2.059	59	1724	0.120	ppbv #	81
19) Isopropyl Alcohol	1.897	45	3677	0.446	ppbv #	1
20) Methylene Chloride	2.078	84	2468	0.542	ppbv	93
22) trans-1,2-Dichloroethene	2.738	96	5195	0.975	ppbv #	76
23) Vinyl Acetate	2.470	43	3296	0.177	ppbv #	84
25) Ethyl Acetate	2.855	43	4433	0.117	ppbv #	93
26) Hexane	2.848	57	2062	0.120	ppbv #	91
29) Chloroform	2.871	83	714	0.032	ppbv #	58
31) cis-1,2-Dichloroethene	2.738	61	7959	0.507	ppbv	93
34) 2-Butanone	2.576	43	6066	0.291	ppbv	92
36) Benzene	3.680	78	1979	0.069	ppbv #	89
39) 1,2-Dichloropropane	3.984	63	74552	6.995	ppbv #	22
41) Tetrahydrofuran	3.078	42	15426	1.263	ppbv	98
59) m/p-Xylene	9.551	91	4641	0.141	ppbv #	69
60) o-Xylene	9.975	91	1240	0.038	ppbv	70
66) Benzyl Chloride	11.552	91	209	0.037	ppbv #	64
74) 1,2,4-Trimethylbenzene	11.552	105	2335	0.062	ppbv #	54
79) Naphthalene	13.526	128	1607	0.045	ppbv #	87
80) Naphthalene,2-methyl-	14.471	142	751	0.047	ppbv #	85

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

Quant Time: Jun 20 01:35:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

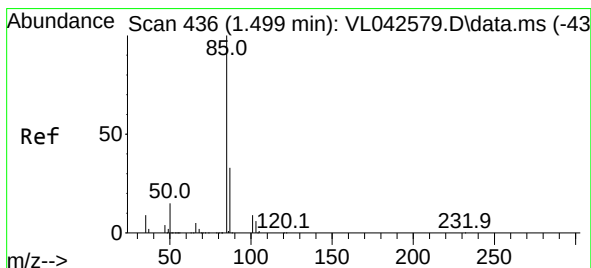
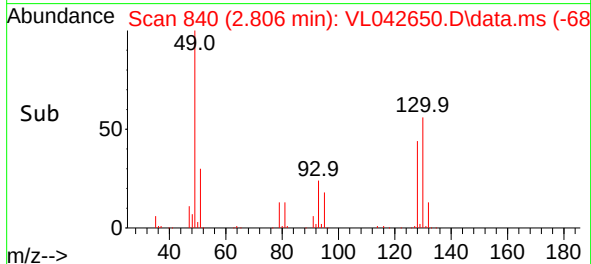
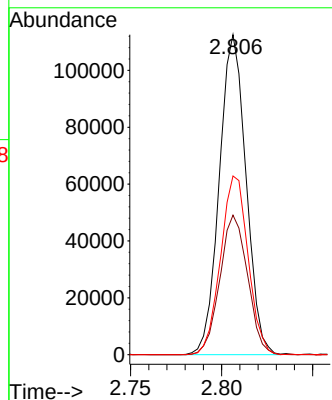
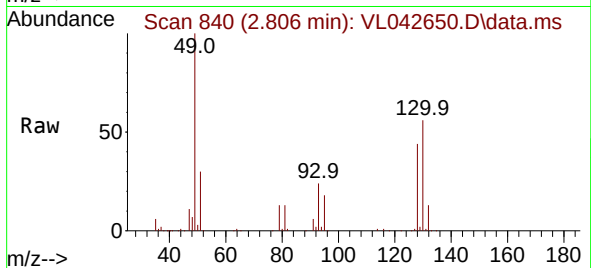




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.806 min Scan# 84
 Delta R.T. 0.016 min
 Lab File: VL042650.D
 Acq: 19 Jun 2025 11:09

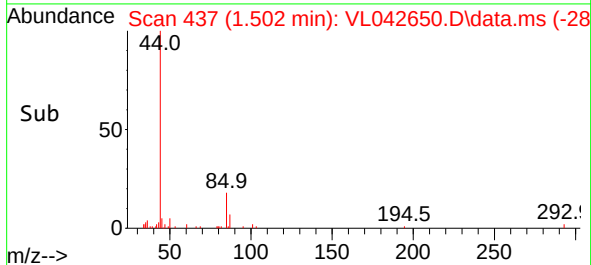
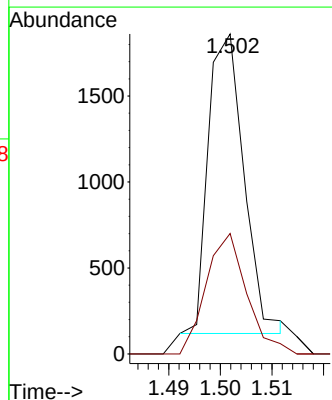
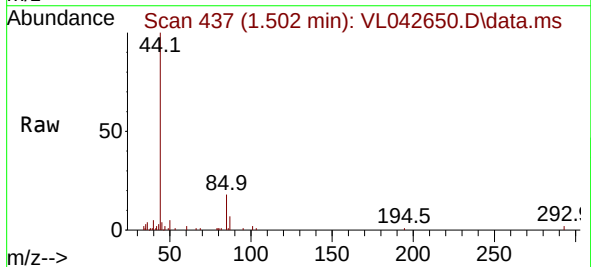
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

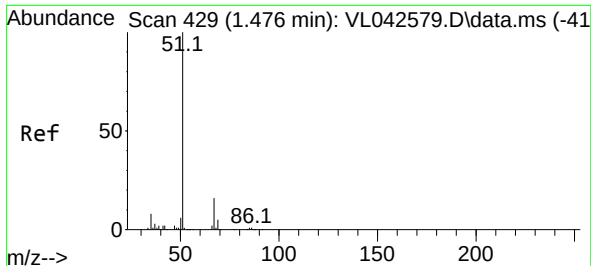
Tgt Ion: 49 Resp: 114585
 Ion Ratio Lower Upper
 49 100
 128 45.2 24.2 72.6
 130 57.6 30.4 91.2



#2
 Dichlorodifluoromethane
 Concen: 0.059 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.003 min
 Lab File: VL042650.D
 Acq: 19 Jun 2025 11:09

Tgt Ion: 85 Resp: 835
 Ion Ratio Lower Upper
 85 100
 87 40.2 26.6 39.8#

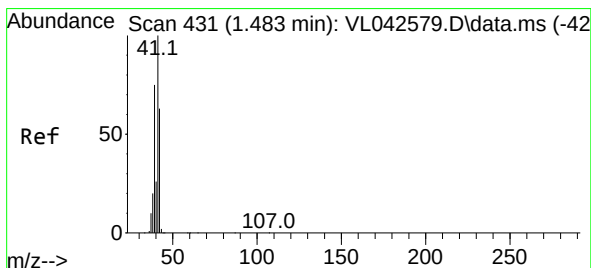
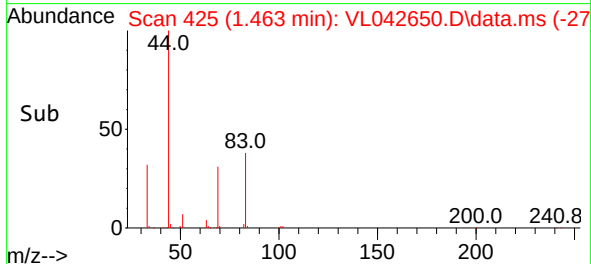
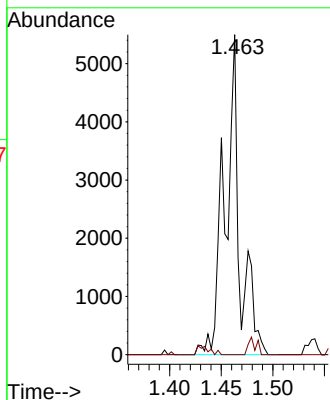
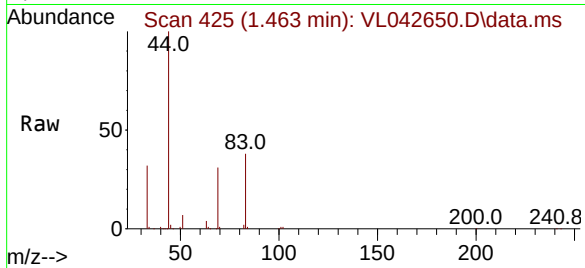




#3
Chlorodifluoromethane
Concen: 0.281 ppbv
RT: 1.463 min Scan# 41
Delta R.T. -0.013 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

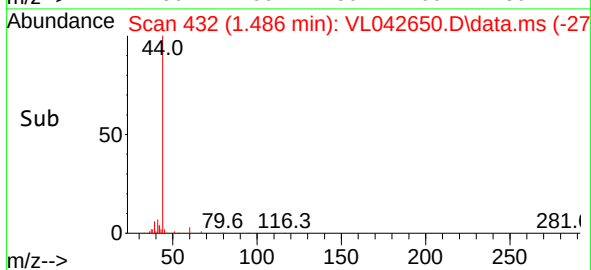
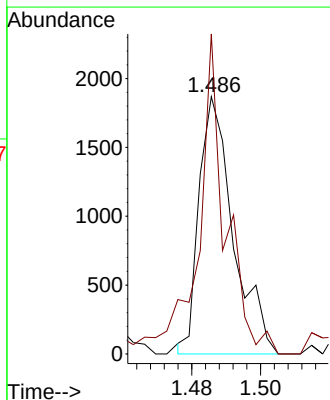
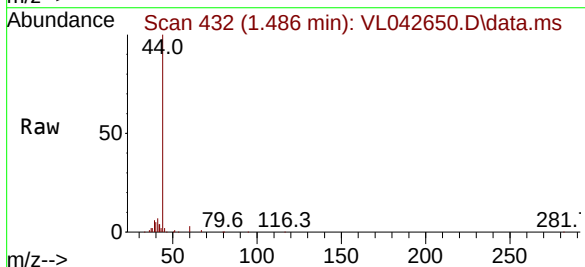
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

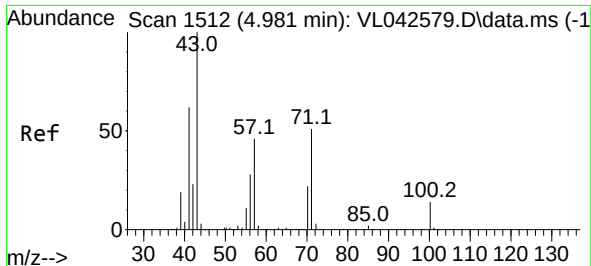
Tgt Ion: 51 Resp: 5449
Ion Ratio Lower Upper
51 100
67 2.8 13.4 20.2#



#9
Propene
Concen: 0.165 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

Tgt Ion: 41 Resp: 1289
Ion Ratio Lower Upper
41 100
42 98.1 53.3 79.9#

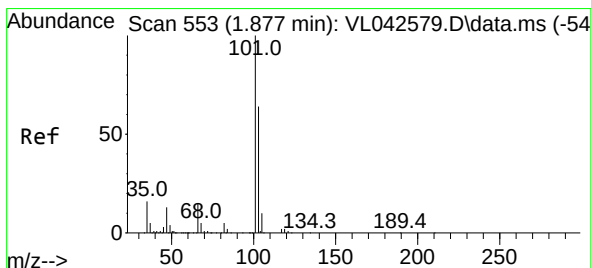
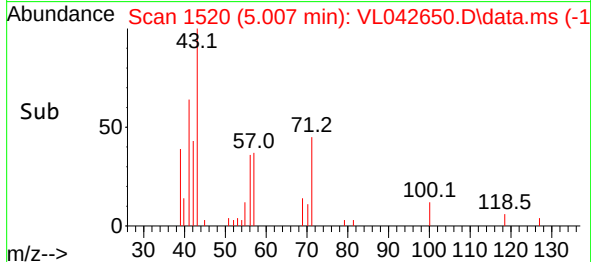
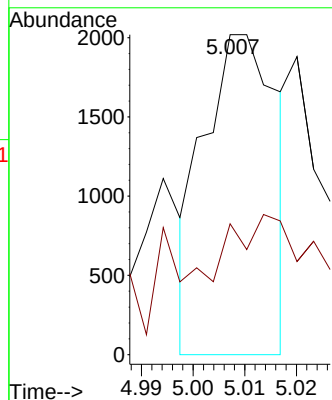
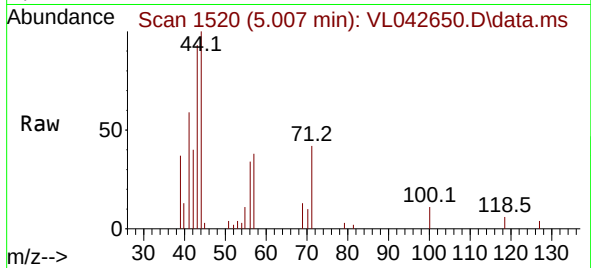




#10
Heptane
Concen: 0.090 ppbv
RT: 5.007 min Scan# 11
Delta R.T. 0.026 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

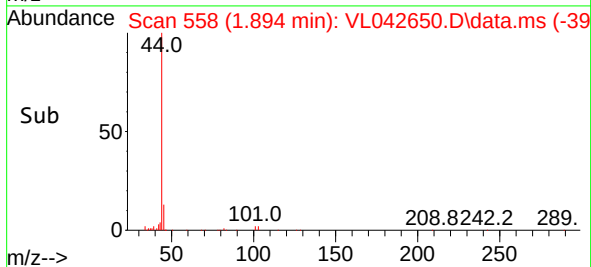
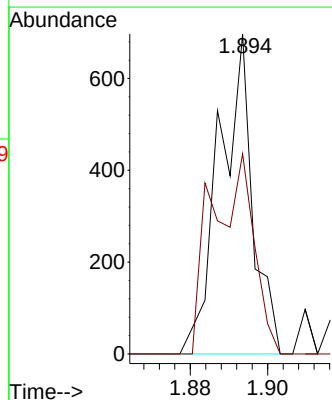
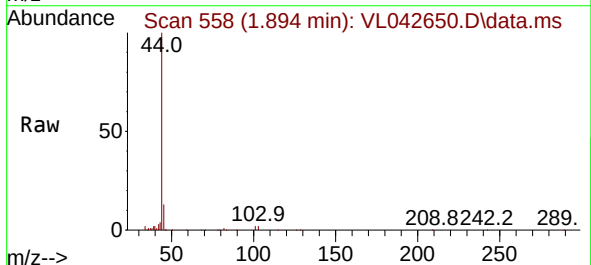
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

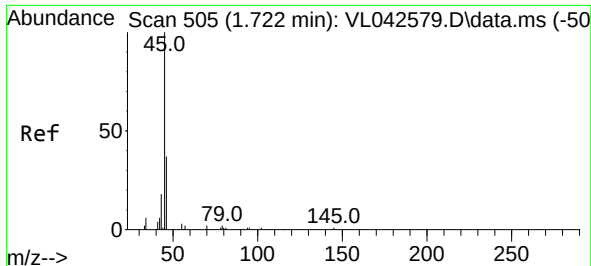
Tgt Ion: 43 Resp: 1975
Ion Ratio Lower Upper
43 100
57 94.8 38.9 58.3#



#11
Trichlorofluoromethane
Concen: 0.032 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.016 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

Tgt Ion:101 Resp: 416
Ion Ratio Lower Upper
101 100
103 62.6 51.5 77.3

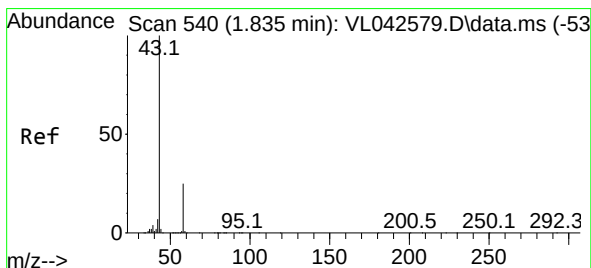
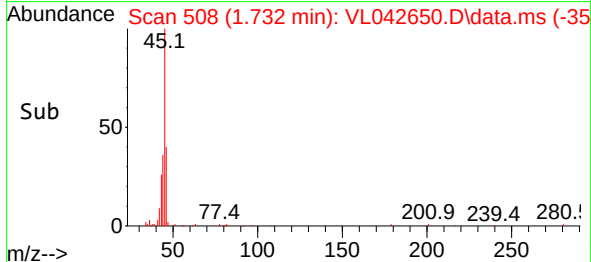
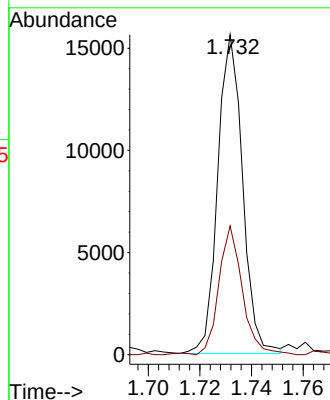
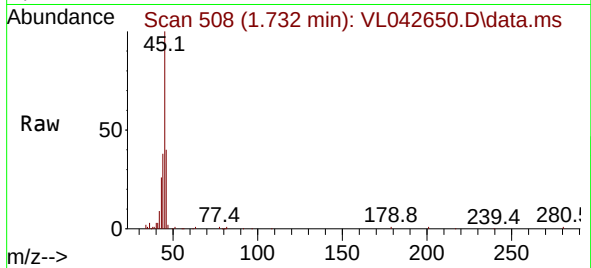




#13
Ethanol
Concen: 11.192 ppbv
RT: 1.732 min Scan# 505
Delta R.T. 0.010 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

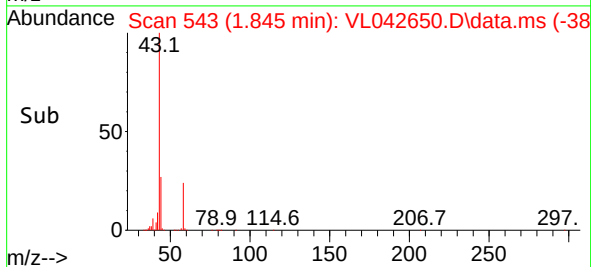
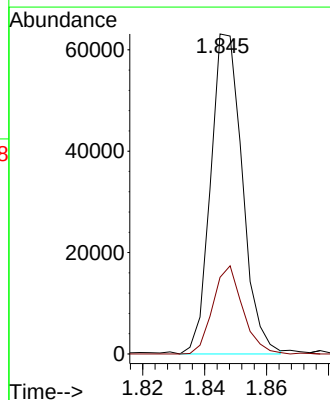
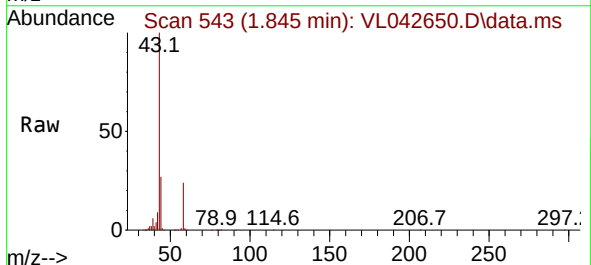
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

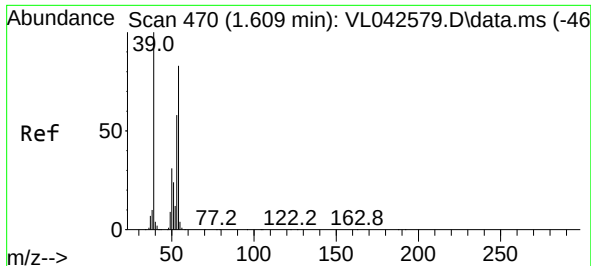
Tgt Ion: 45 Resp: 10418
Ion Ratio Lower Upper
45 100
46 0.0 14.5 58.1#



#15
Acetone
Concen: 3.250 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.010 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

Tgt Ion: 43 Resp: 44863
Ion Ratio Lower Upper
43 100
58 26.0 21.0 31.4





#16

1,3-Butadiene

Concen: 0.112 ppbv

RT: 1.615 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042650.D

Acq: 19 Jun 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

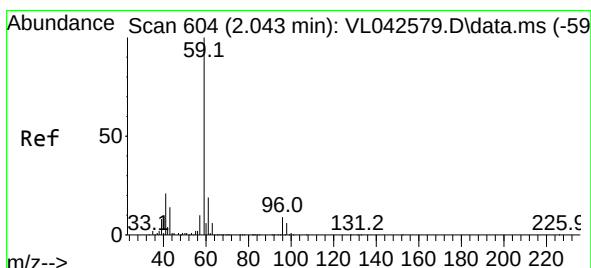
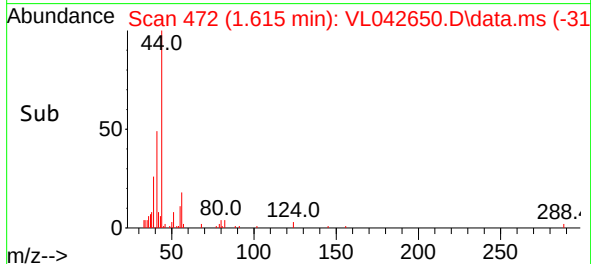
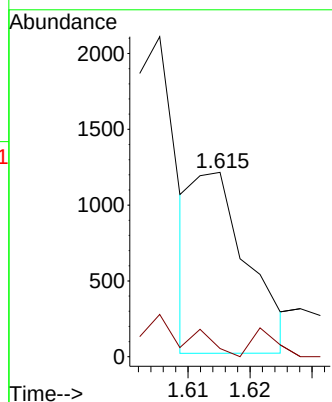
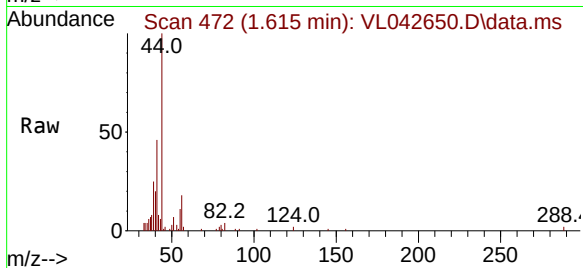
SS-1DL

Tgt Ion: 39 Resp: 733

Ion Ratio Lower Upper

39 100

54 0.0 57.9 86.9#



#17

tert-Butyl alcohol

Concen: 0.120 ppbv

RT: 2.059 min Scan# 609

Delta R.T. 0.016 min

Lab File: VL042650.D

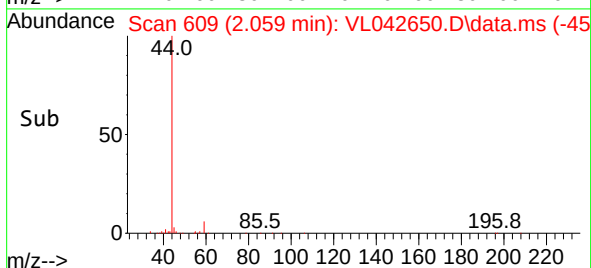
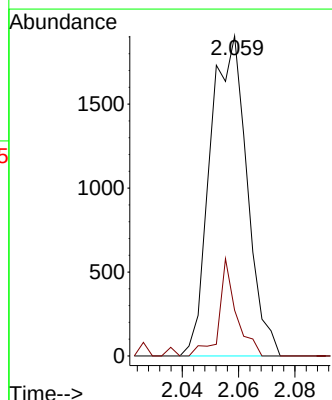
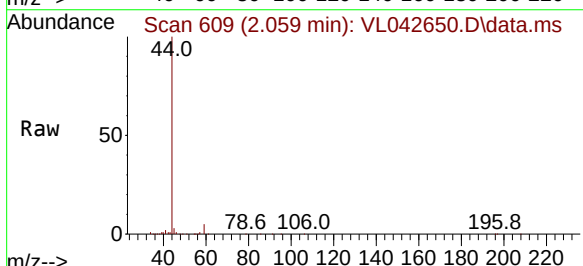
Acq: 19 Jun 2025 11:09

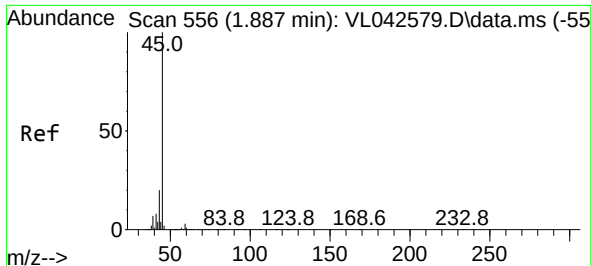
Tgt Ion: 59 Resp: 1724

Ion Ratio Lower Upper

59 100

57 17.9 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 0.446 ppbv

RT: 1.897 min Scan# 51

Delta R.T. 0.010 min

Lab File: VL042650.D

Acq: 19 Jun 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

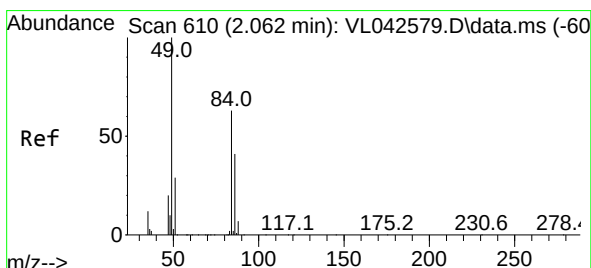
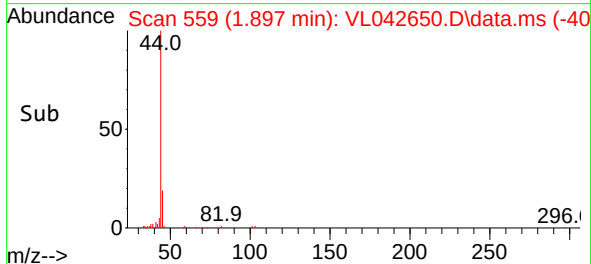
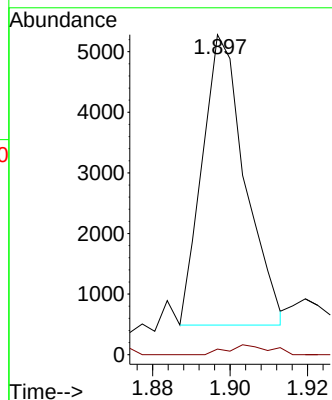
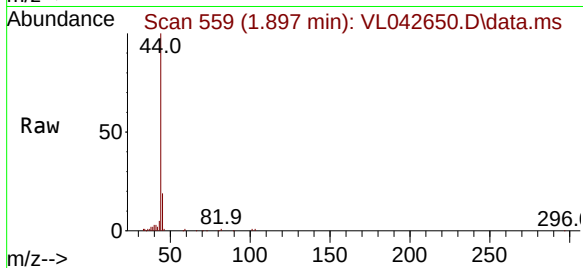
SS-1DL

Tgt Ion: 45 Resp: 3677

Ion Ratio Lower Upper

45 100

58 317.4 29.4 44.2#



#20

Methylene Chloride

Concen: 0.542 ppbv

RT: 2.078 min Scan# 615

Delta R.T. 0.016 min

Lab File: VL042650.D

Acq: 19 Jun 2025 11:09

Tgt Ion: 84 Resp: 2468

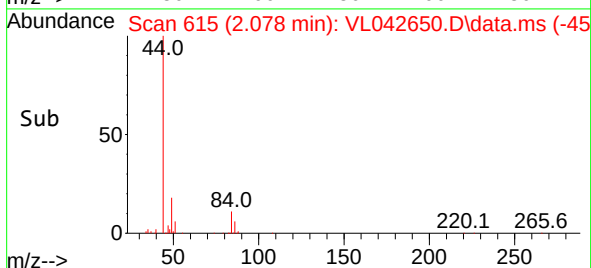
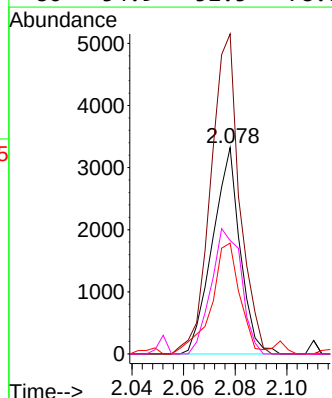
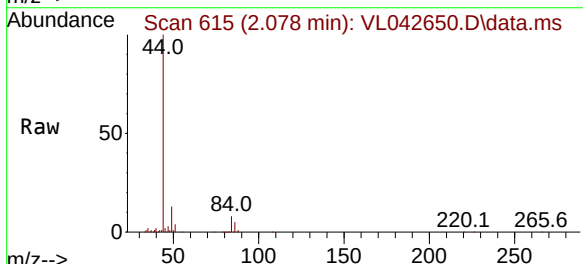
Ion Ratio Lower Upper

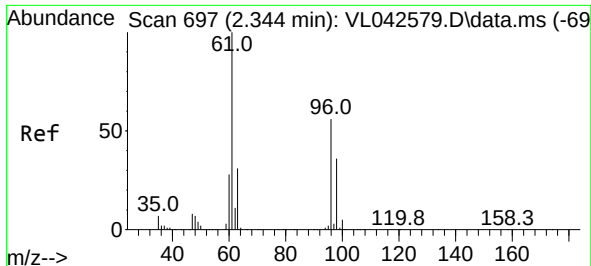
84 100

49 155.0 128.8 193.2

51 51.1 38.6 57.8

86 54.9 52.5 78.7

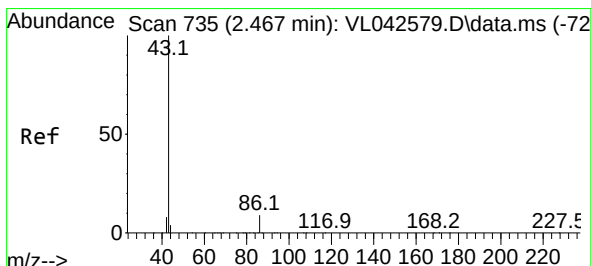
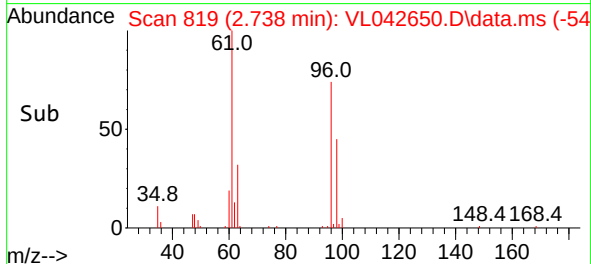
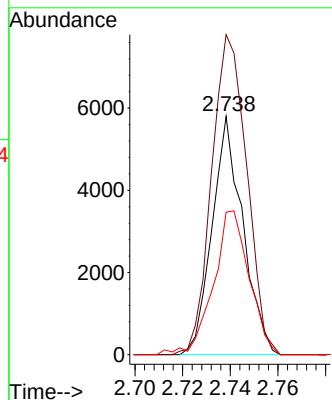
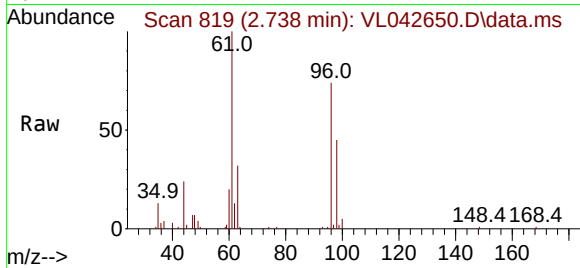




#22
trans-1,2-Dichloroethene
Concen: 0.975 ppbv
RT: 2.738 min Scan# 81
Delta R.T. 0.395 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

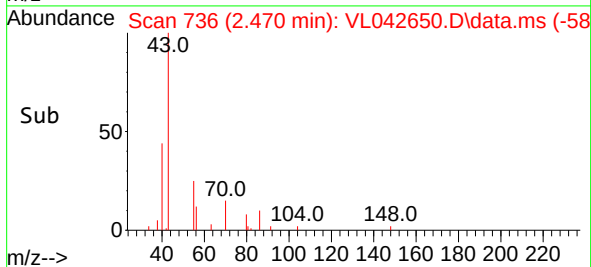
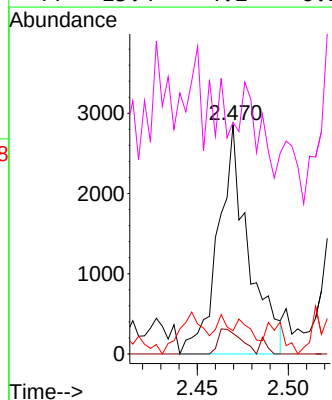
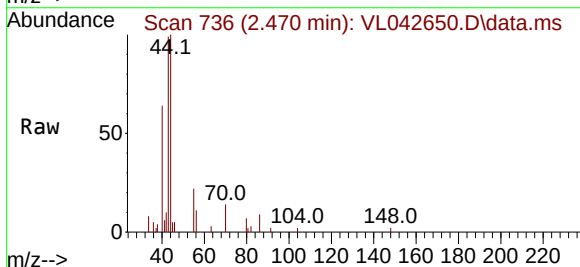
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

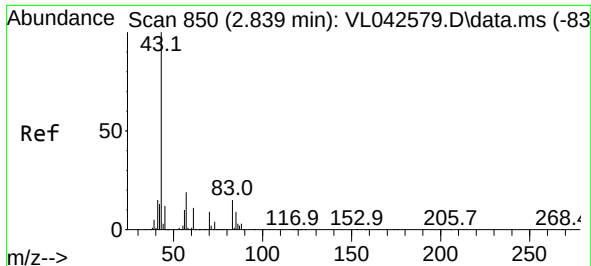
Tgt Ion: 96 Resp: 5195
Ion Ratio Lower Upper
96 100
61 134.3 142.6 214.0#
98 59.8 51.0 76.4



#23
Vinyl Acetate
Concen: 0.177 ppbv
RT: 2.470 min Scan# 736
Delta R.T. 0.003 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

Tgt Ion: 43 Resp: 3296
Ion Ratio Lower Upper
43 100
86 9.0 6.6 9.8
42 0.0 7.0 10.4#
44 13.4 4.2 6.2#

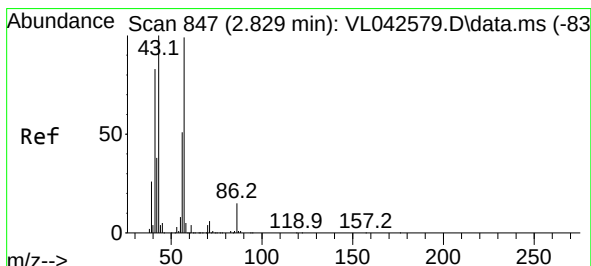
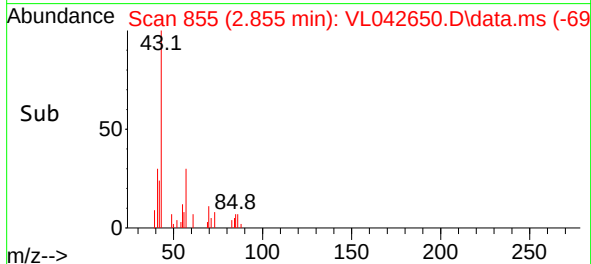
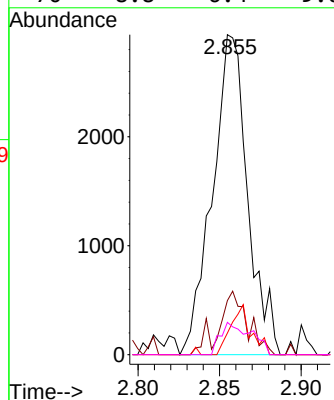
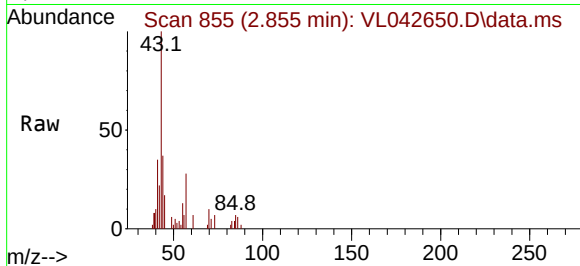




#25
Ethyl Acetate
Concen: 0.117 ppbv
RT: 2.855 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

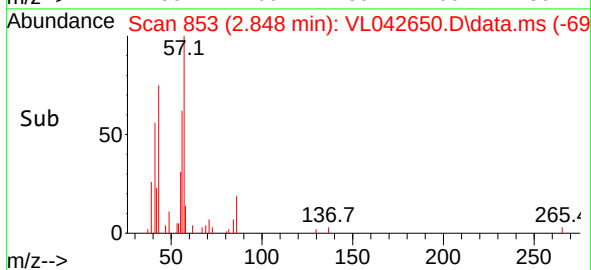
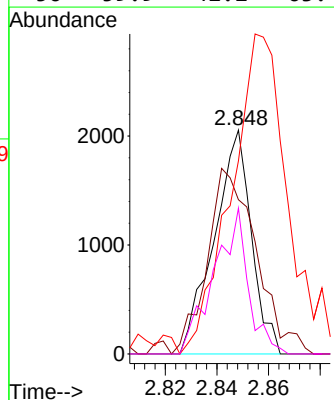
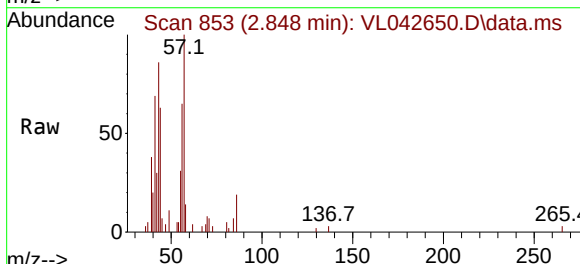
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

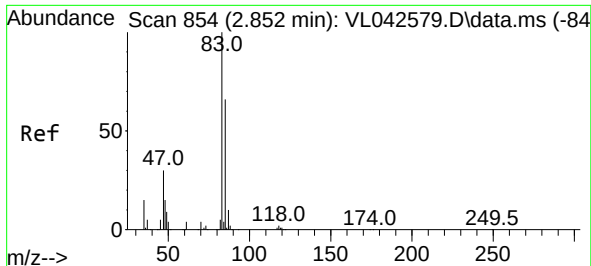
Tgt Ion: 43	Resp: 4433
Ion Ratio	Lower Upper
43 100	
45 16.5	8.2 12.2#
61 8.9	7.1 10.7
70 8.8	6.4 9.6



#26
Hexane
Concen: 0.120 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.019 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

Tgt	Ion: 57	Resp:	2062
	Ratio	Lower	Upper
57	100		
41	115.1	70.6	106.0#
43	227.5	181.1	271.7
56	59.9	42.2	63.4





#29

Chloroform

Concen: 0.032 ppbv

RT: 2.871 min Scan# 80

Delta R.T. 0.019 min

Lab File: VL042650.D

Acq: 19 Jun 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

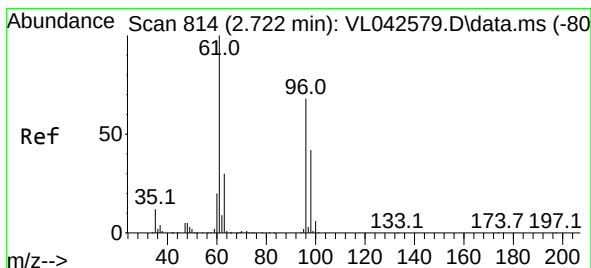
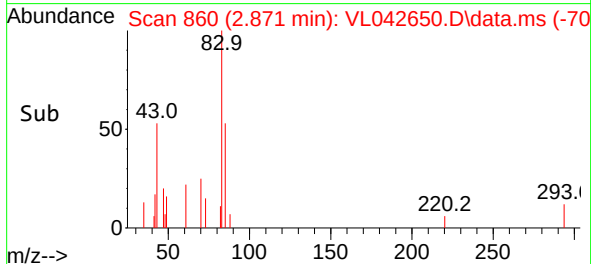
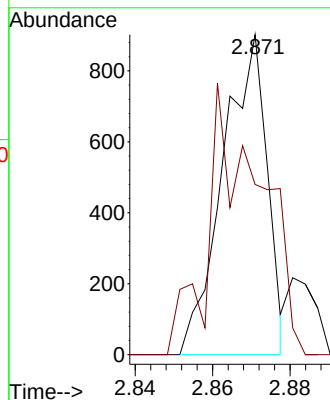
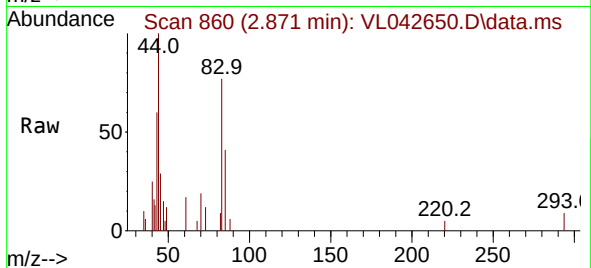
SS-1DL

Tgt Ion: 83 Resp: 714

Ion Ratio Lower Upper

83 100

85 32.8 52.8 79.2#



#31

cis-1,2-Dichloroethene

Concen: 0.507 ppbv

RT: 2.738 min Scan# 819

Delta R.T. 0.016 min

Lab File: VL042650.D

Acq: 19 Jun 2025 11:09

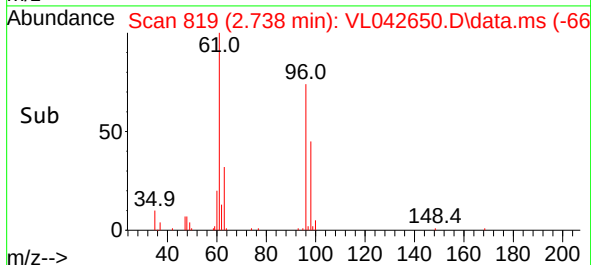
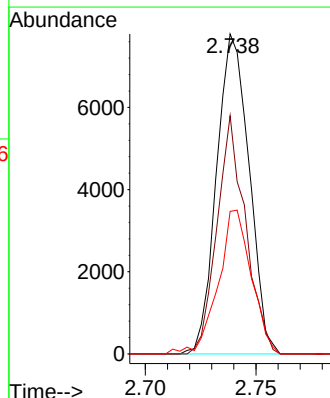
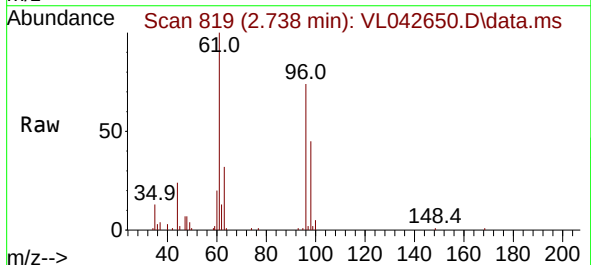
Tgt Ion: 61 Resp: 7959

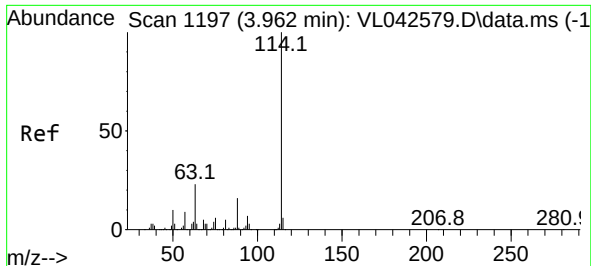
Ion Ratio Lower Upper

61 100

96 74.5 54.5 81.7

98 44.5 33.4 50.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 1197

Delta R.T. 0.019 min

Lab File: VL042650.D

Acq: 19 Jun 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

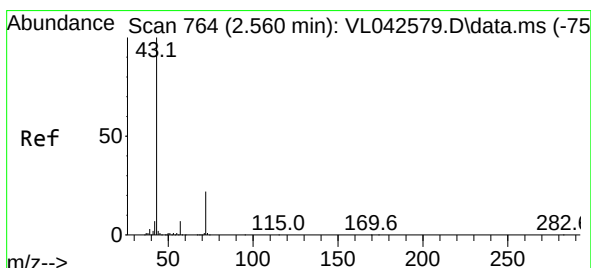
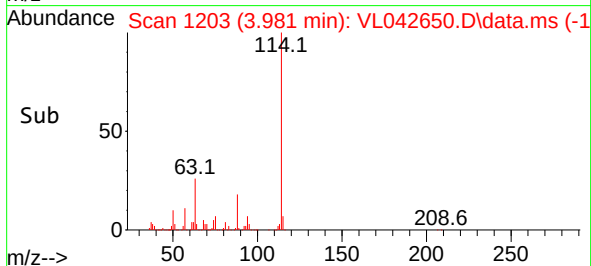
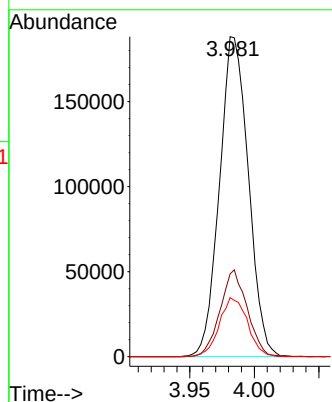
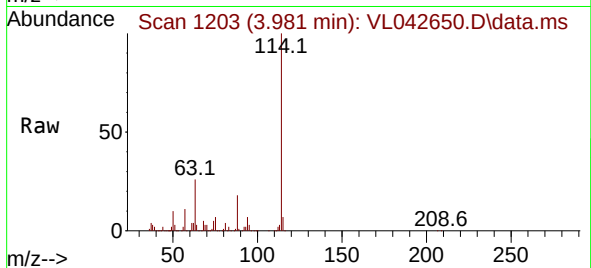
Tgt Ion:114 Resp: 292670

Ion Ratio Lower Upper

114 100

63 25.6 19.0 28.6

88 18.0 13.6 20.4



#34

2-Butanone

Concen: 0.291 ppbv

RT: 2.576 min Scan# 769

Delta R.T. 0.016 min

Lab File: VL042650.D

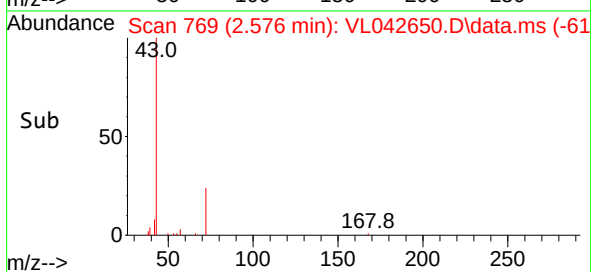
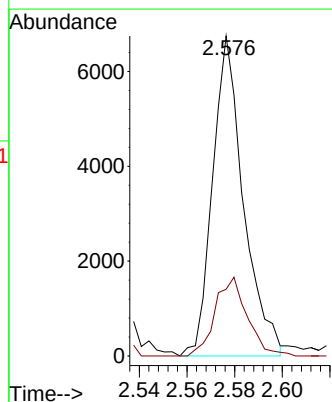
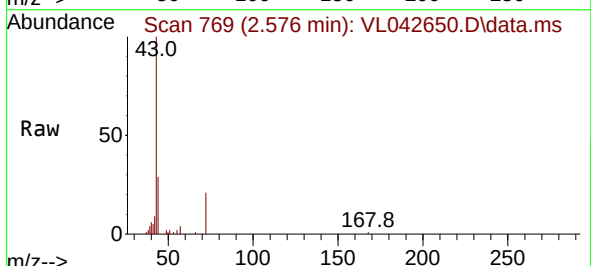
Acq: 19 Jun 2025 11:09

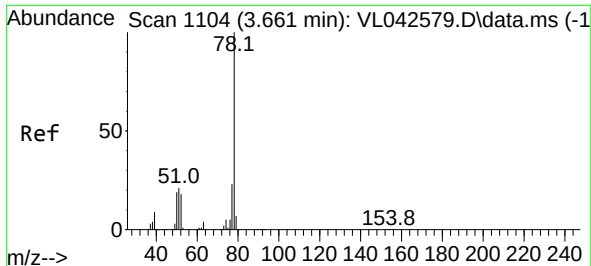
Tgt Ion: 43 Resp: 6066

Ion Ratio Lower Upper

43 100

72 25.7 17.7 26.5

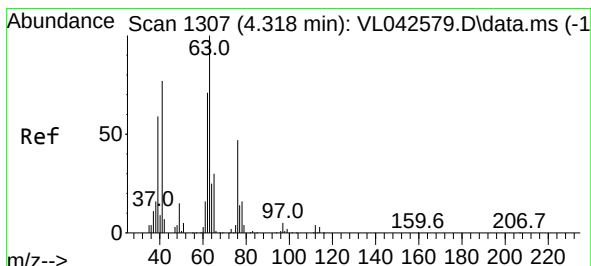
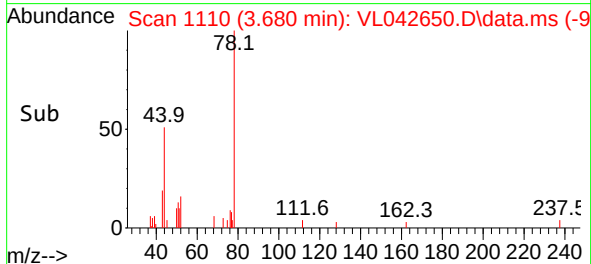
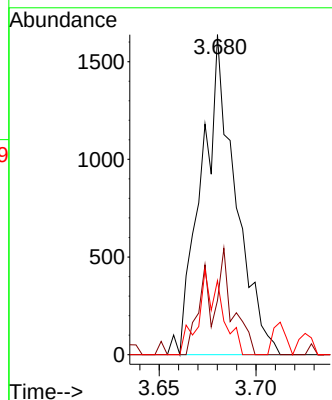
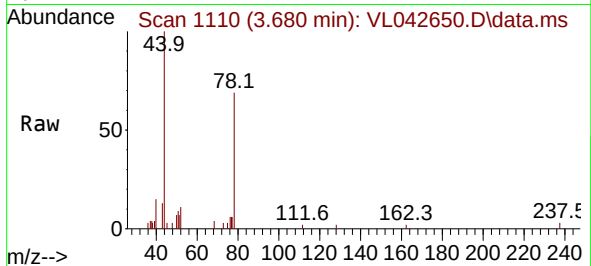




#36
Benzene
Concen: 0.069 ppbv
RT: 3.680 min Scan# 1104
Delta R.T. 0.019 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

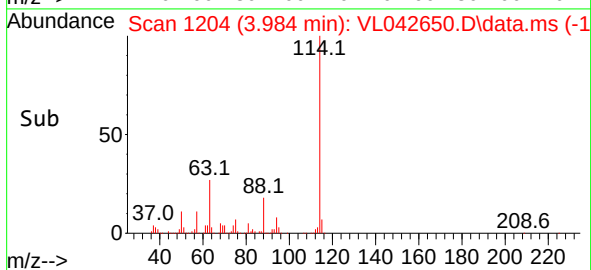
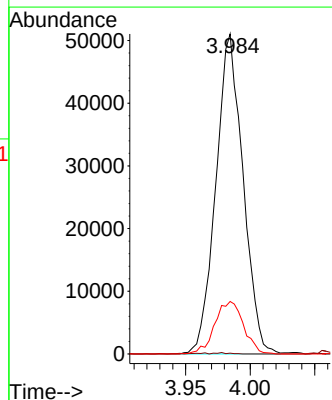
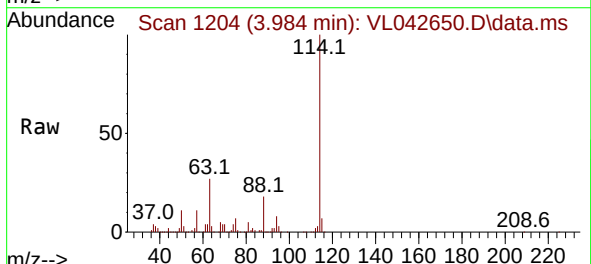
Instrument :
MSVOA_1
ClientSampleId :
SS-1DL

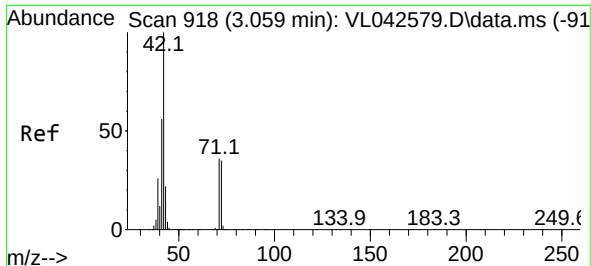
Tgt Ion: 78 Resp: 1979
Ion Ratio Lower Upper
78 100
77 17.0 18.2 27.2#
50 23.1 15.2 22.8#



#39
1,2-Dichloropropane
Concen: 6.995 ppbv
RT: 3.984 min Scan# 1204
Delta R.T. -0.334 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

Tgt Ion: 63 Resp: 74552
Ion Ratio Lower Upper
63 100
41 0.2 61.8 92.6#
62 16.4 56.6 85.0#

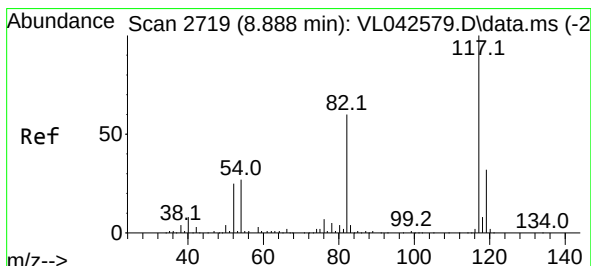
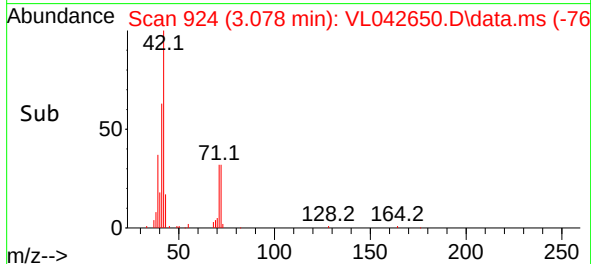
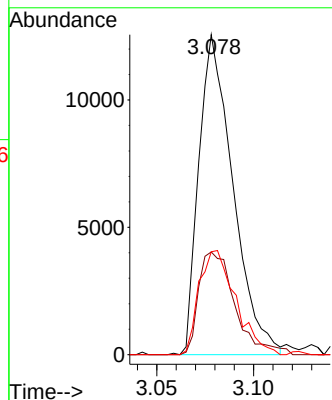
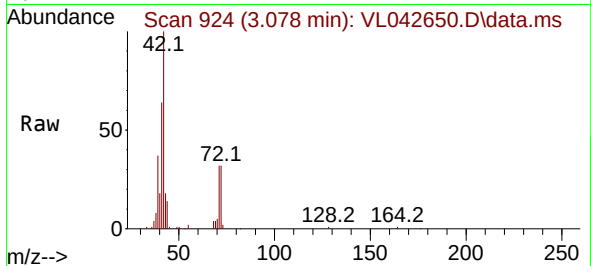




#41
Tetrahydrofuran
Concen: 1.263 ppbv
RT: 3.078 min Scan# 918
Delta R.T. 0.019 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

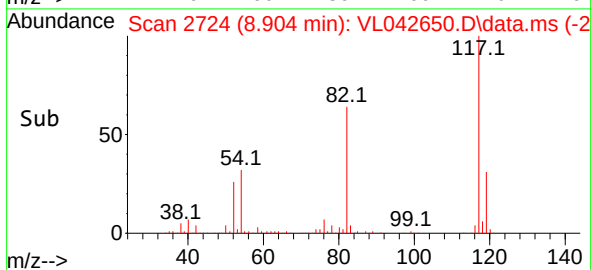
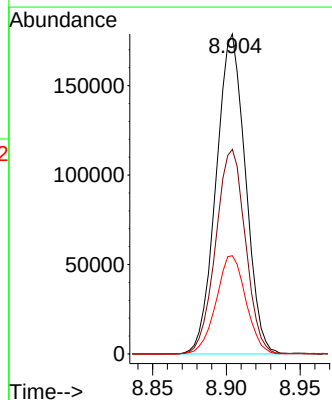
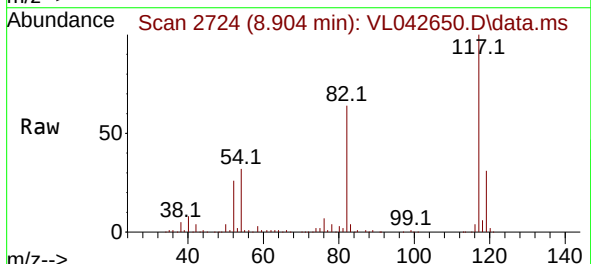
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

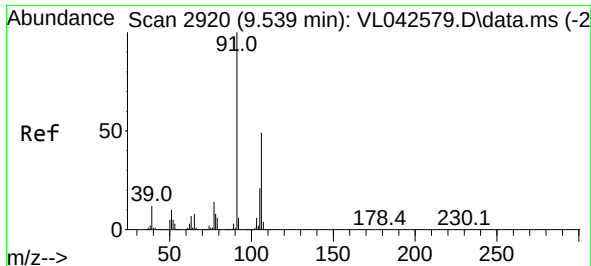
Tgt Ion:	42	Resp:	15426
Ion Ratio	Lower	Upper	
42	100		
72	34.1	28.9	43.3
71	35.3	28.5	42.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.016 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

Tgt Ion:	117	Resp:	247226
Ion Ratio	Lower	Upper	
117	100		
82	64.8	51.2	76.8
119	31.5	26.3	39.5





#59

m/p-Xylene

Concen: 0.141 ppbv

RT: 9.551 min Scan# 2924

Delta R.T. 0.013 min

Lab File: VL042650.D

Acq: 19 Jun 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

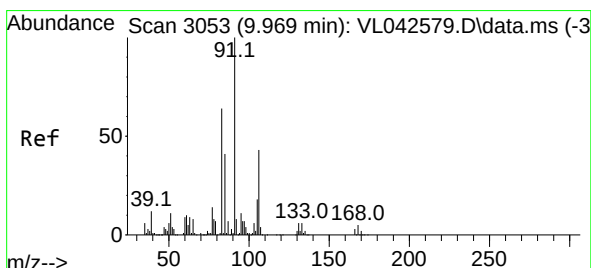
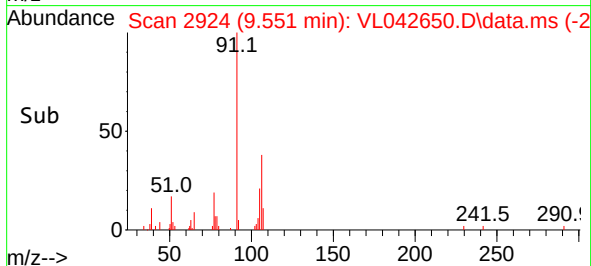
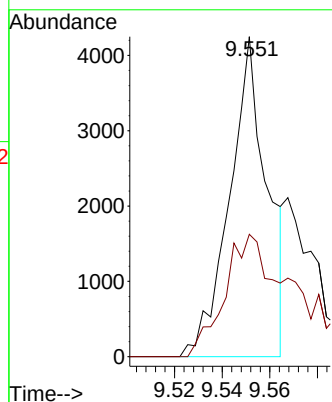
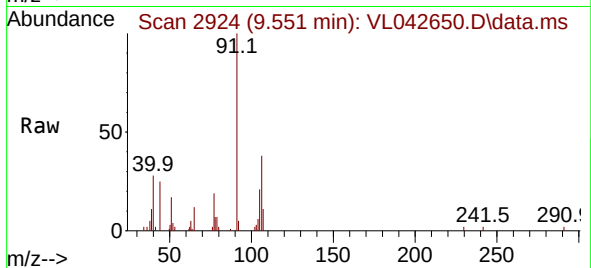
SS-1DL

Tgt Ion: 91 Resp: 4641

Ion Ratio Lower Upper

91 100

106 69.6 38.8 58.2#



#60

o-Xylene

Concen: 0.038 ppbv

RT: 9.975 min Scan# 3055

Delta R.T. 0.006 min

Lab File: VL042650.D

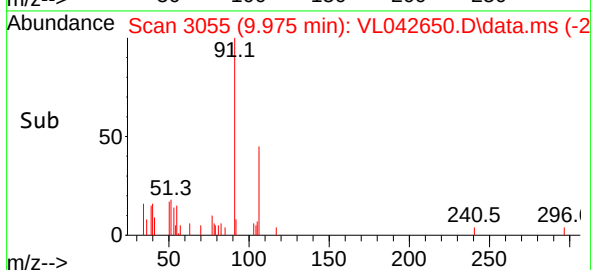
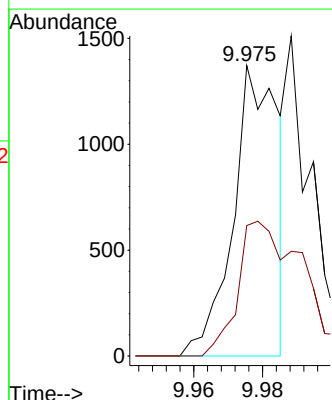
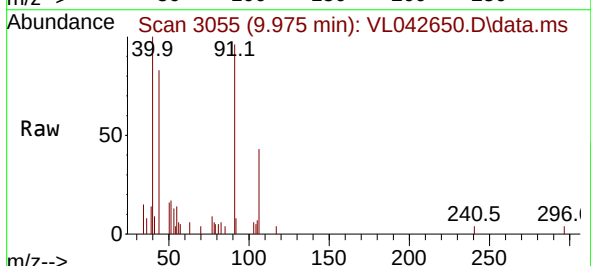
Acq: 19 Jun 2025 11:09

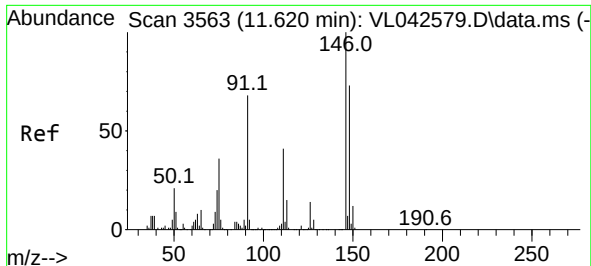
Tgt Ion: 91 Resp: 1240

Ion Ratio Lower Upper

91 100

106 65.6 22.9 68.5

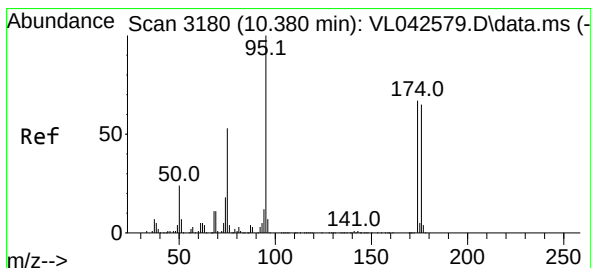
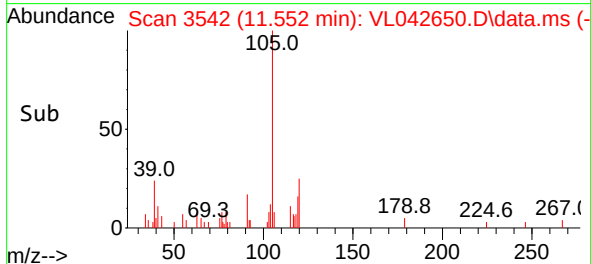
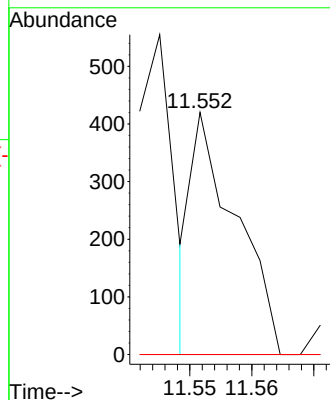
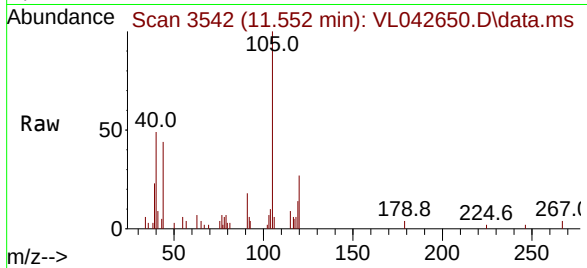




#66
Benzyl Chloride
Concen: 0.037 ppbv
RT: 11.552 min Scan# 3184
Delta R.T. -0.068 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

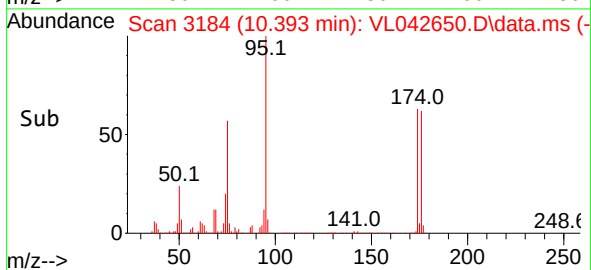
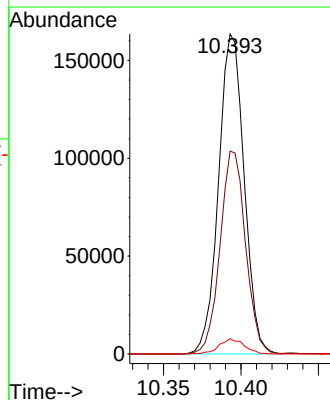
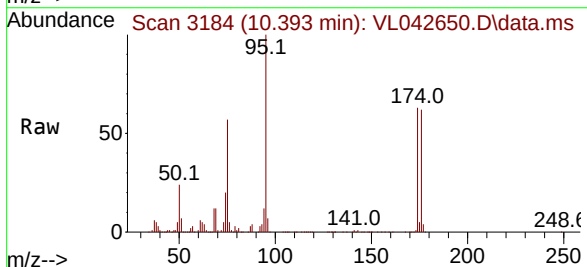
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

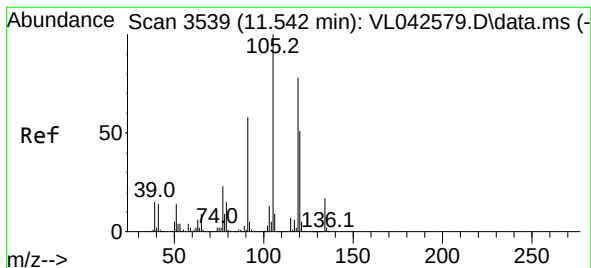
Tgt Ion: 91 Resp: 209
Ion Ratio Lower Upper
91 100
126 0.0 15.1 22.7#
128 0.0 5.0 7.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.131 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.013 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

Tgt Ion: 95 Resp: 187754
Ion Ratio Lower Upper
95 100
174 63.4 53.1 79.7
175 4.7 4.2 6.2





#74

1,2,4-Trimethylbenzene

Concen: 0.062 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. 0.010 min

Lab File: VL042650.D

Acq: 19 Jun 2025 11:09

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

Tgt Ion:105 Resp: 2335

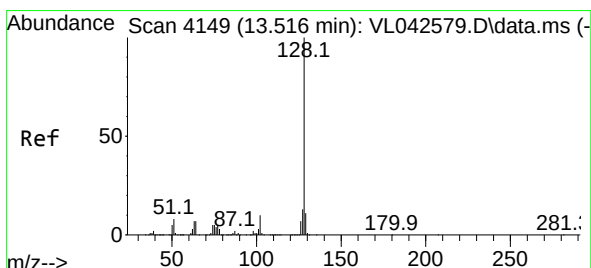
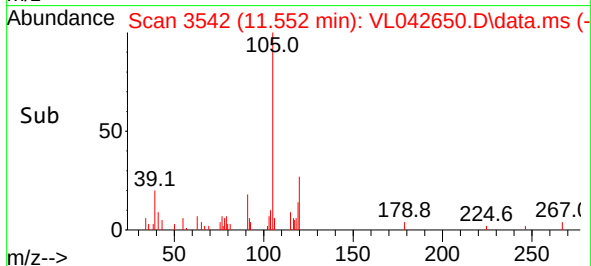
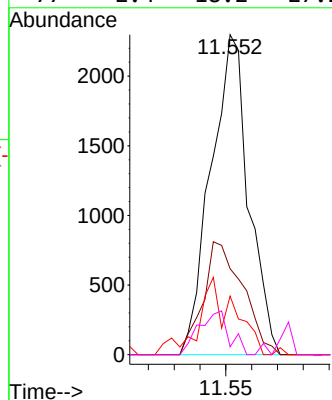
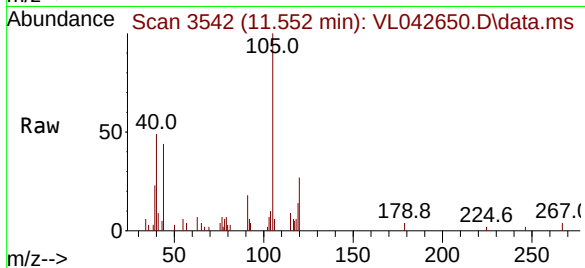
Ion Ratio Lower Upper

105 100

120 26.8 40.8 61.2#

91 16.1 46.8 70.2#

77 2.4 18.2 27.2#



#79

Naphthalene

Concen: 0.045 ppbv

RT: 13.526 min Scan# 4152

Delta R.T. 0.010 min

Lab File: VL042650.D

Acq: 19 Jun 2025 11:09

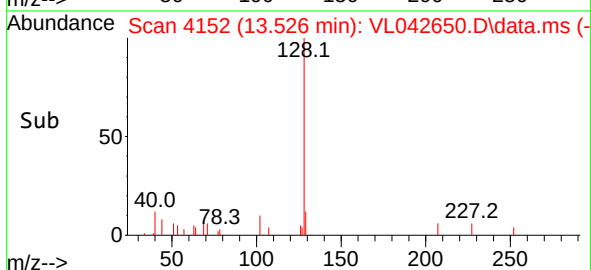
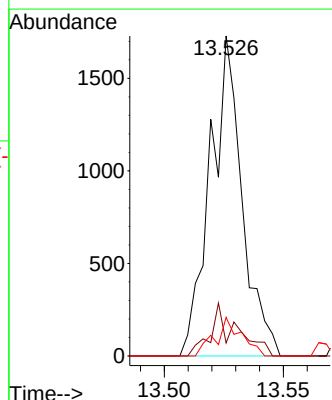
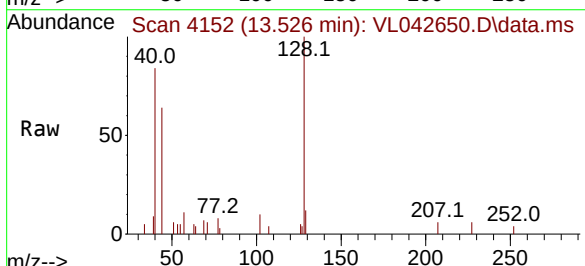
Tgt Ion:128 Resp: 1607

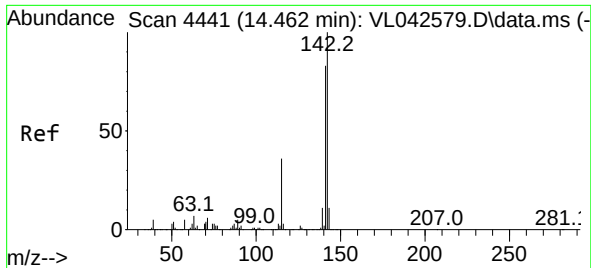
Ion Ratio Lower Upper

128 100

127 4.0 10.2 15.4#

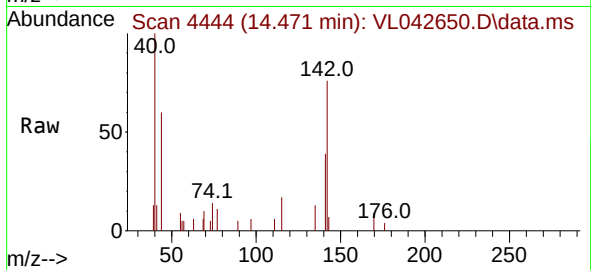
129 12.0 8.8 13.2



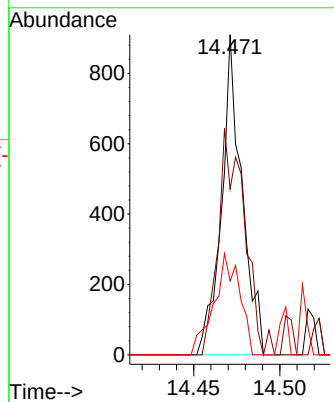
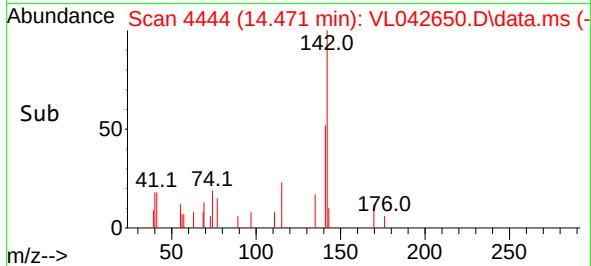


#80
Naphthalene, 2-methyl-
Concen: 0.047 ppbv
RT: 14.471 min Scan# 44
Delta R.T. 0.010 min
Lab File: VL042650.D
Acq: 19 Jun 2025 11:09

Instrument :
MSVOA_L
ClientSampleId :
SS-1DL



Tgt Ion:142 Resp: 751
Ion Ratio Lower Upper
142 100
141 90.4 66.2 99.4
115 52.7 28.3 42.5#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042651.D
 Acq On : 19 Jun 2025 11:58
 Operator : SY/MD
 Sample : Q2359-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Quant Time: Jun 20 01:36:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	116867	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.978	114	292359	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	253888	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 204963 10.769 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.700%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8300	0.578	ppbv	91
3) Chlorodifluoromethane	1.450	51	39873	2.016	ppbv #	62
4) Chloromethane	1.534	50	13534	2.379	ppbv	99
5) Vinyl Chloride	1.583	62	194	0.033	ppbv #	44
7) Chloroethane	1.712	64	333	0.148	ppbv #	44
8) Dichlorotetrafluoroethane	1.499	85	8300	0.694	ppbv #	21
9) Propene	1.486	41	11276	1.415	ppbv	90
10) Heptane	5.007	43	44827	1.996	ppbv	95
11) Trichlorofluoromethane	1.887	101	3341	0.250	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.153	101	878	0.084	ppbv	86
13) Ethanol	1.729	45	96433	101.573	ppbv	96
15) Acetone	1.842	43	415203	29.495	ppbv	100
16) 1,3-Butadiene	1.625	39	1263	0.189	ppbv #	13
17) tert-Butyl alcohol	2.049	59	12937	0.882	ppbv	97
19) Isopropyl Alcohol	1.894	45	31874	3.788	ppbv #	1
20) Methylene Chloride	2.075	84	15655	3.370	ppbv	98
21) Allyl Chloride	2.091	41	655	0.066	ppbv #	21
22) trans-1,2-Dichloroethene	2.735	96	56862	10.466	ppbv	88
23) Vinyl Acetate	2.489	43	2635	0.138	ppbv #	62
24) 1,1-Dichloroethane	2.421	63	687	0.061	ppbv #	88
25) Ethyl Acetate	2.852	43	45842	1.190	ppbv #	96
26) Hexane	2.845	57	18589	1.062	ppbv	82
27) Carbon Disulfide	2.156	76	689	0.051	ppbv #	55
29) Chloroform	2.865	83	6123	0.269	ppbv	96
31) cis-1,2-Dichloroethene	2.735	61	88276	5.513	ppbv	95
34) 2-Butanone	2.570	43	60913	2.922	ppbv	99
35) Carbon Tetrachloride	3.781	117	2514	0.130	ppbv #	81
36) Benzene	3.677	78	16370	0.569	ppbv #	93
37) 1,2-Dichloroethane	3.234	62	895	0.063	ppbv #	78
39) 1,2-Dichloropropane	3.978	63	73493	6.903	ppbv #	22
41) Tetrahydrofuran	3.069	42	192120	15.742	ppbv	99
51) 2-Hexanone	7.470	43	804	0.035	ppbv #	28
53) Toluene	6.962	91	29076	0.874	ppbv	96
58) Ethyl Benzene	9.374	91	23504	0.546	ppbv	94
59) m/p-Xylene	9.548	91	100363	2.961	ppbv	98
60) o-Xylene	9.979	91	28349	0.839	ppbv	98
61) Styrene	9.885	104	1313	0.082	ppbv #	78
64) n-propylbenzene	11.005	120	1409	0.105	ppbv	72
65) tert-Butylbenzene	11.549	119	4306	0.095	ppbv #	46
67) sec-Butylbenzene	11.782	105	3567	0.056	ppbv #	6
69) p-Isopropyltoluene	11.937	119	3934	0.074	ppbv	93
70) n-Butylbenzene	12.303	91	1635	0.031	ppbv #	1
72) 4-Ethyltoluene	11.137	105	7640	0.181	ppbv #	55

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
Data File : VL042651.D
Acq On : 19 Jun 2025 11:58
Operator : SY/MD
Sample : Q2359-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

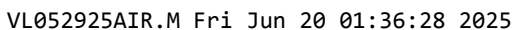
Instrument :
MSVOA_L
ClientSampleId :
SS-1

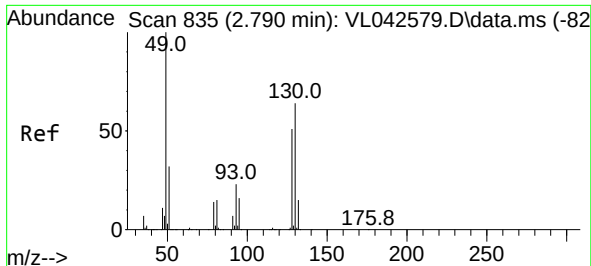
Quant Time: Jun 20 01:36:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,3,5-Trimethylbenzene	11.215	105	6608	0.189	ppbv	91
74) 1,2,4-Trimethylbenzene	11.549	105	34784	0.899	ppbv #	64
79) Naphthalene	13.523	128	19325	0.530	ppbv	95
80) Naphthalene,2-methyl-	14.465	142	12637	0.767	ppbv #	83

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

Quant Time: Jun 20 01:36:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

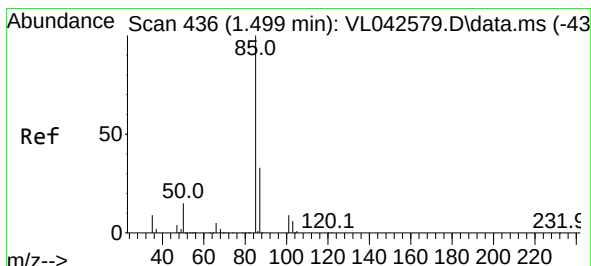
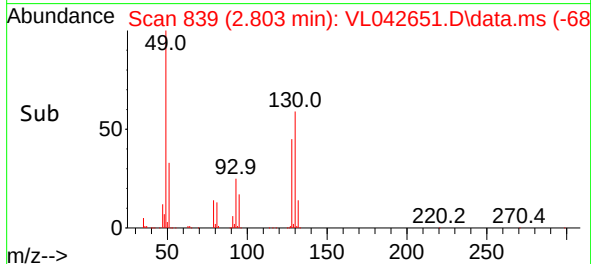
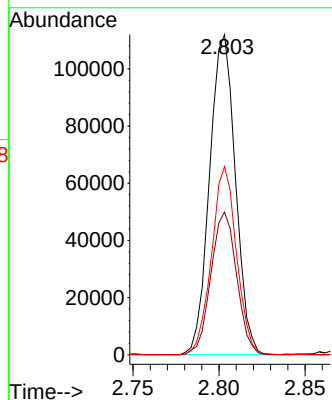
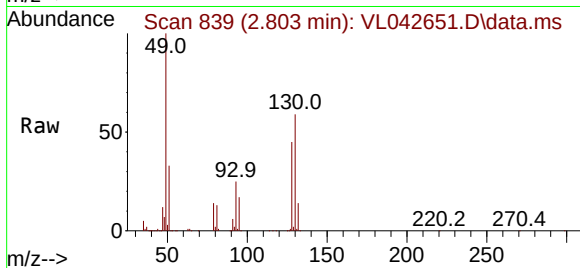




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

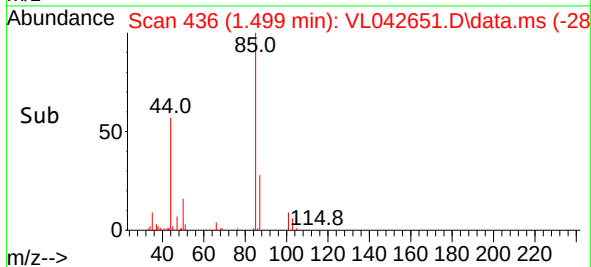
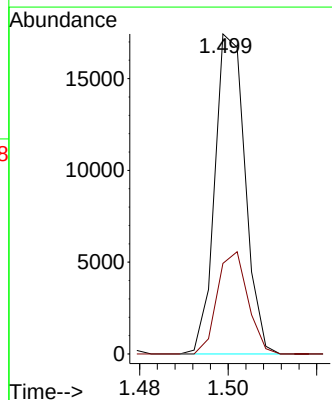
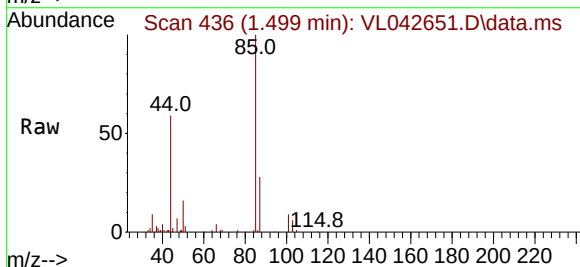
Instrument :
MSVOA_L
ClientSampleId :
SS-1

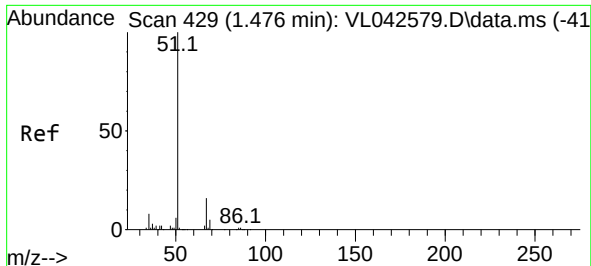
Tgt Ion: 49 Resp: 116867
Ion Ratio Lower Upper
49 100
128 44.3 24.2 72.6
130 56.8 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 0.578 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion: 85 Resp: 8300
Ion Ratio Lower Upper
85 100
87 28.3 26.6 39.8

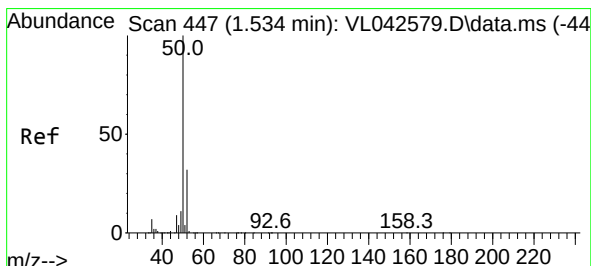
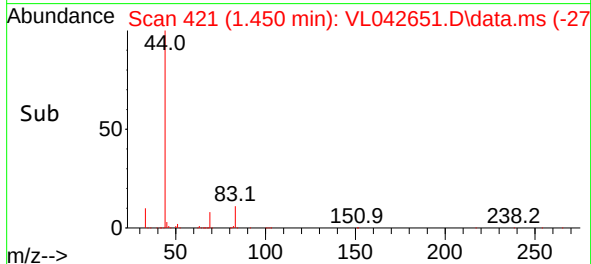
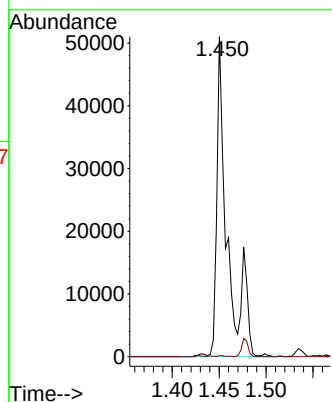
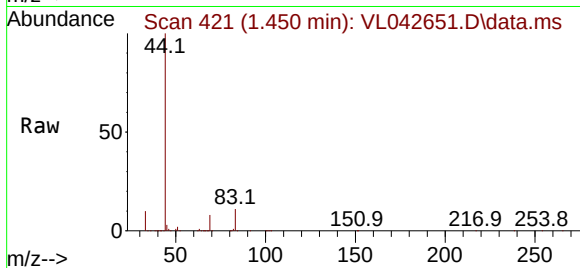




#3
Chlorodifluoromethane
Concen: 2.016 ppbv
RT: 1.450 min Scan# 41
Delta R.T. -0.026 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

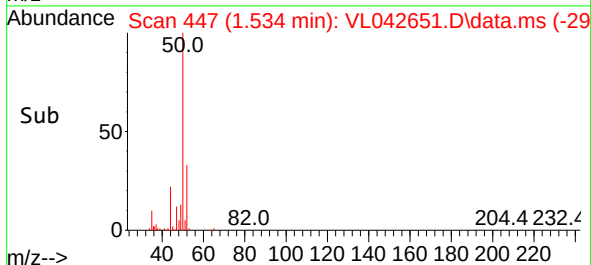
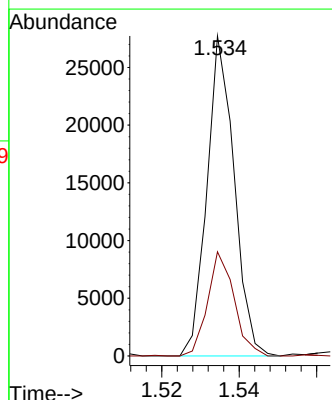
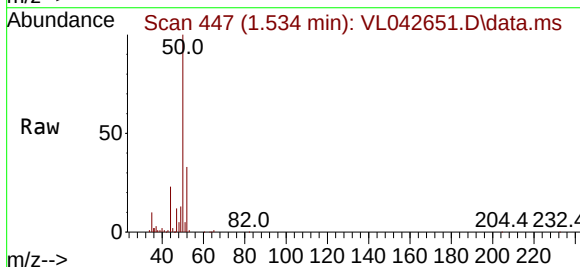
Instrument :
MSVOA_L
ClientSampleId :
SS-1

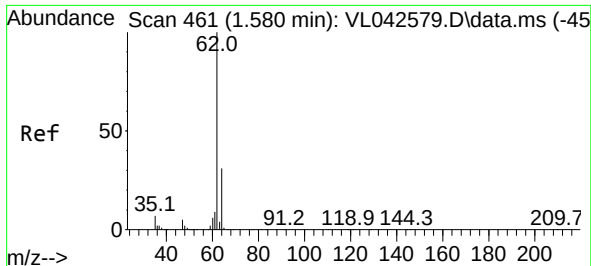
Tgt Ion: 51 Resp: 39873
Ion Ratio Lower Upper
51 100
67 0.3 13.4 20.2#



#4
Chloromethane
Concen: 2.379 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion: 50 Resp: 13534
Ion Ratio Lower Upper
50 100
52 32.6 25.8 38.6

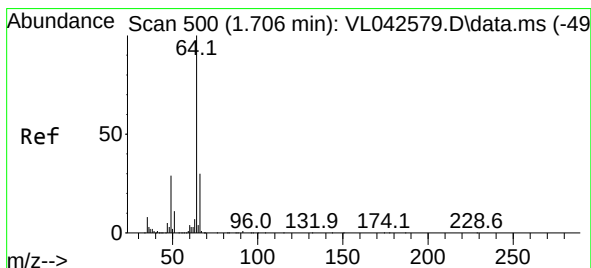
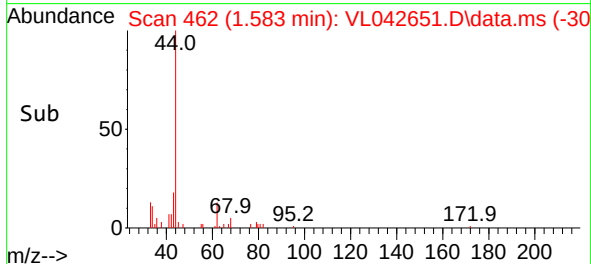
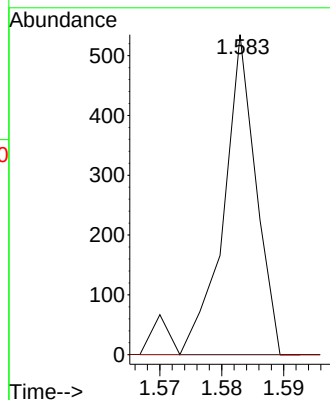
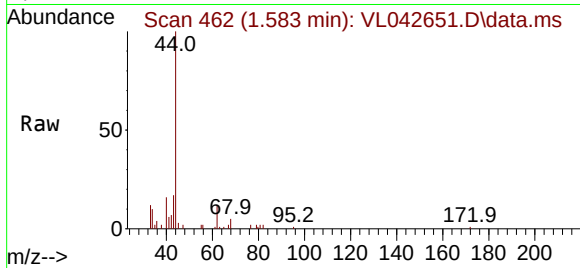




#5
 Vinyl Chloride
 Concen: 0.033 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.003 min
 Lab File: VL042651.D
 Acq: 19 Jun 2025 11:58

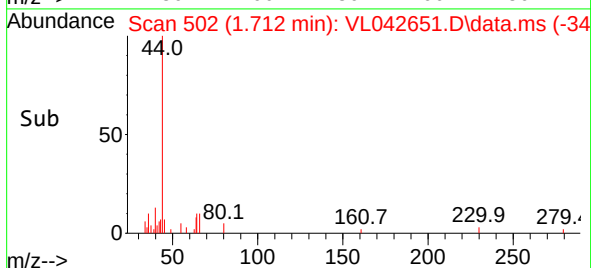
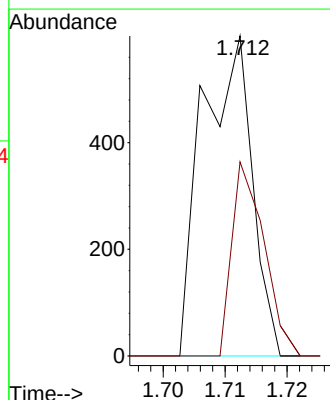
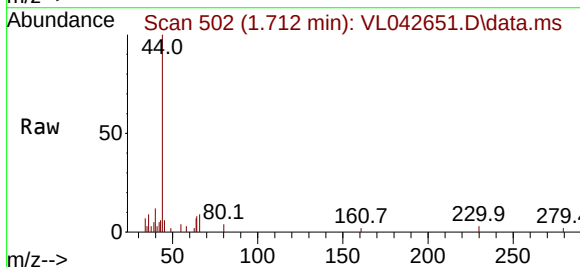
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

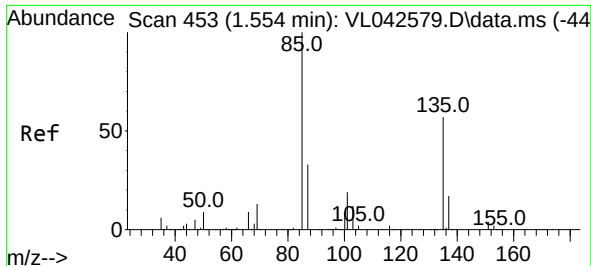
Tgt Ion: 62 Resp: 194
 Ion Ratio Lower Upper
 62 100
 64 0.0 24.9 37.3#



#7
 Chloroethane
 Concen: 0.148 ppbv
 RT: 1.712 min Scan# 502
 Delta R.T. 0.006 min
 Lab File: VL042651.D
 Acq: 19 Jun 2025 11:58

Tgt Ion: 64 Resp: 333
 Ion Ratio Lower Upper
 64 100
 66 60.7 24.3 36.5#

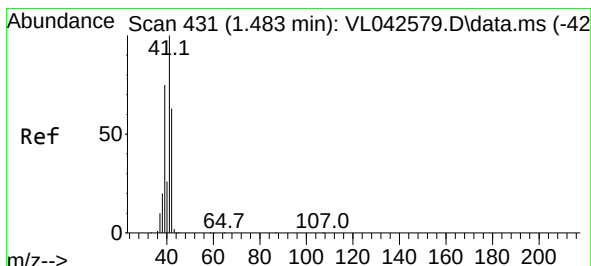
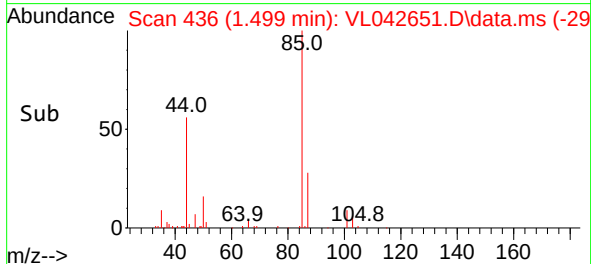
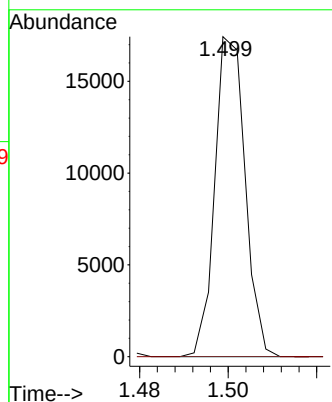
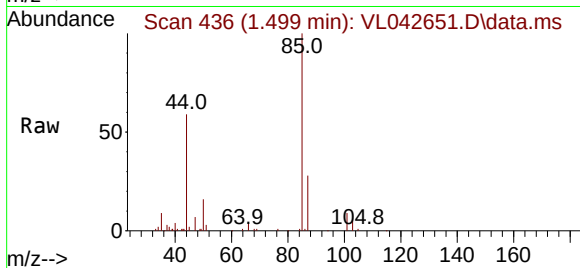




#8
 Dichlorotetrafluoroethane
 Concen: 0.694 ppbv
 RT: 1.499 min Scan# 41
 Delta R.T. -0.055 min
 Lab File: VL042651.D
 Acq: 19 Jun 2025 11:58

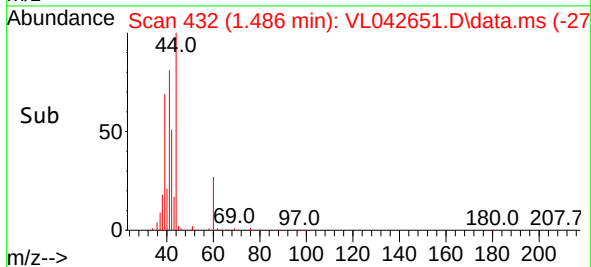
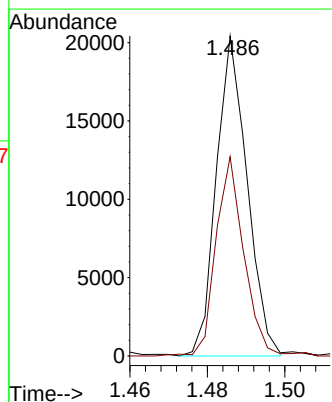
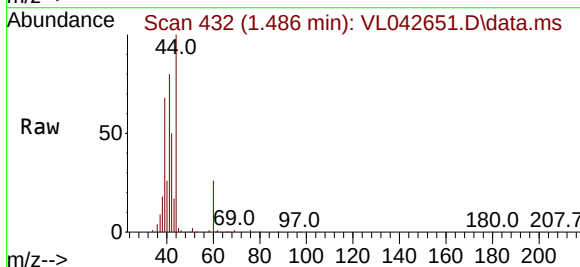
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

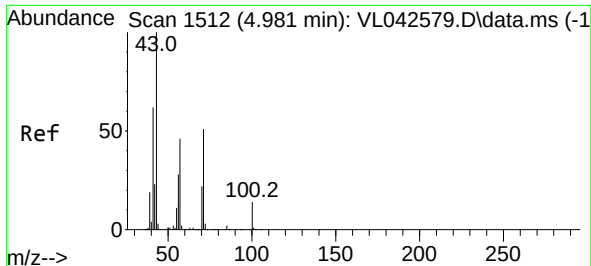
Tgt Ion: 85 Resp: 8300
 Ion Ratio Lower Upper
 85 100
 135 2.0 50.2 75.4#



#9
 Propene
 Concen: 1.415 ppbv
 RT: 1.486 min Scan# 432
 Delta R.T. 0.003 min
 Lab File: VL042651.D
 Acq: 19 Jun 2025 11:58

Tgt Ion: 41 Resp: 11276
 Ion Ratio Lower Upper
 41 100
 42 58.3 53.3 79.9

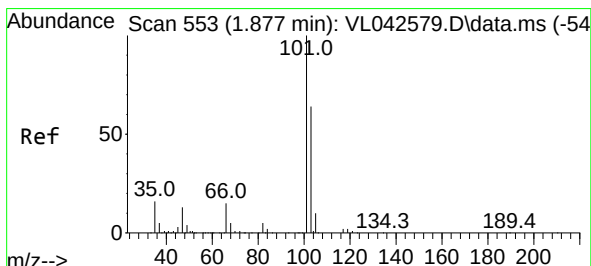
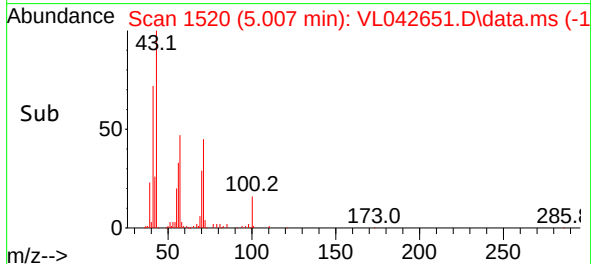
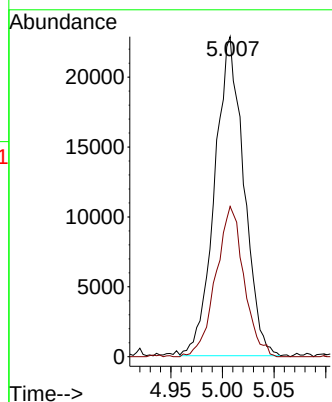
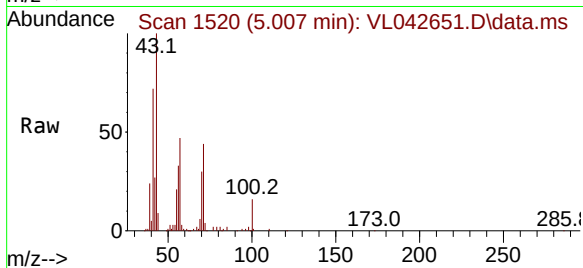




#10
Heptane
Concen: 1.996 ppbv
RT: 5.007 min Scan# 11
Delta R.T. 0.026 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

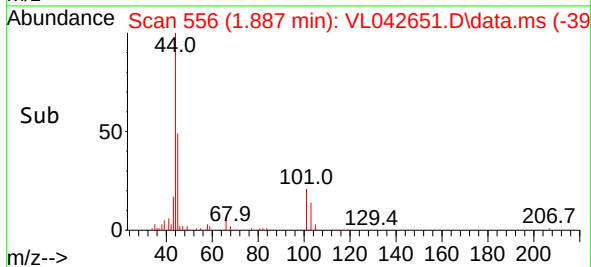
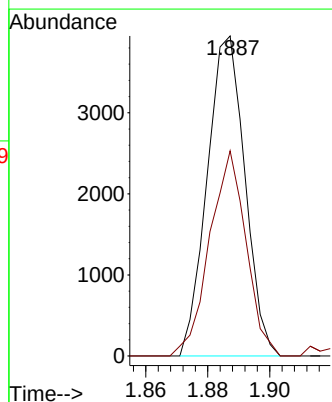
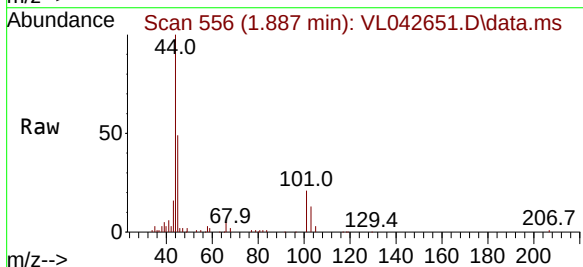
Instrument :
MSVOA_L
ClientSampleId :
SS-1

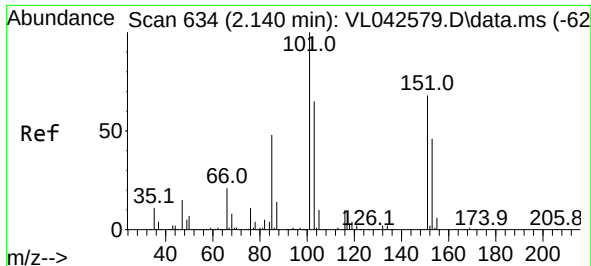
Tgt Ion: 43 Resp: 44827
Ion Ratio Lower Upper
43 100
57 45.4 38.9 58.3



#11
Trichlorofluoromethane
Concen: 0.250 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.010 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion: 101 Resp: 3341
Ion Ratio Lower Upper
101 100
103 64.1 51.5 77.3





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.084 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.013 min

Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

Instrument :

MSVOA_L

ClientSampleId :

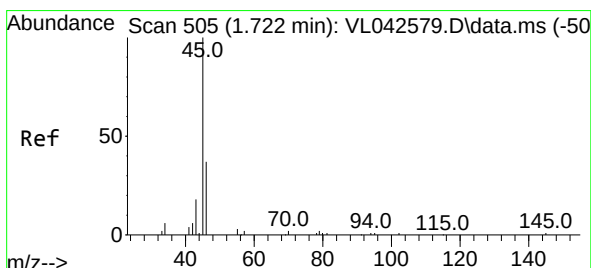
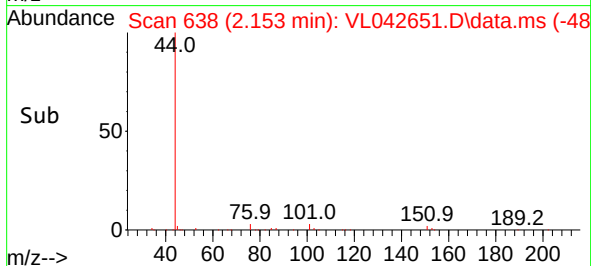
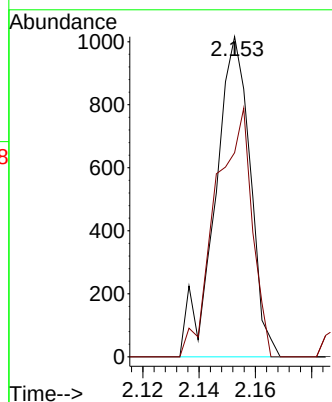
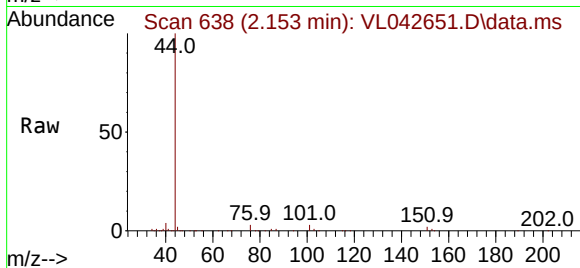
SS-1

Tgt Ion:101 Resp: 878

Ion Ratio Lower Upper

101 100

151 80.9 55.3 82.9



#13

Ethanol

Concen: 101.573 ppbv

RT: 1.729 min Scan# 507

Delta R.T. 0.006 min

Lab File: VL042651.D

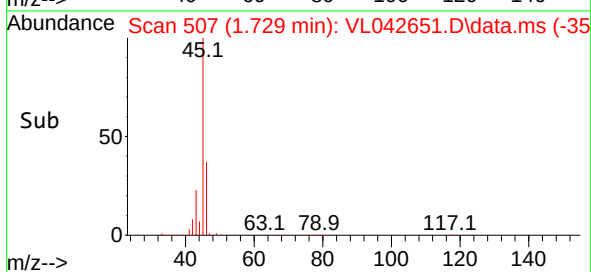
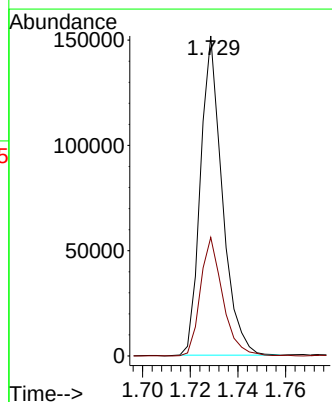
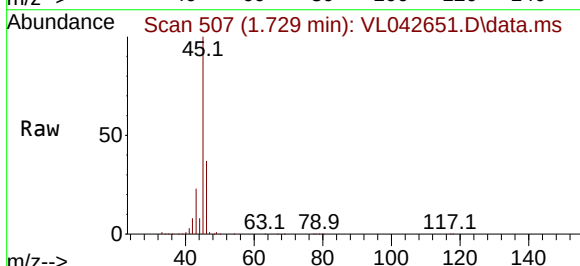
Acq: 19 Jun 2025 11:58

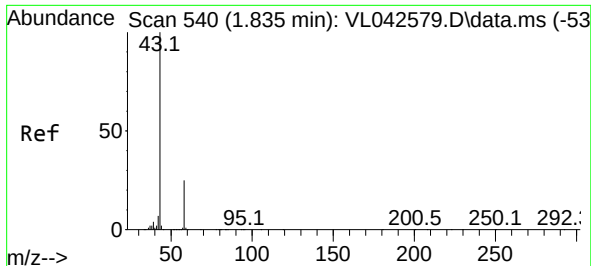
Tgt Ion: 45 Resp: 96433

Ion Ratio Lower Upper

45 100

46 38.4 14.5 58.1

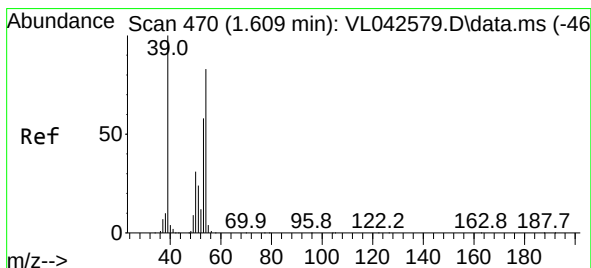
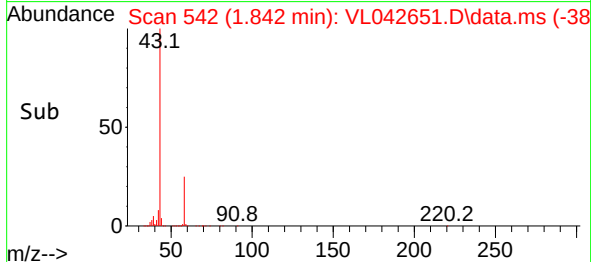
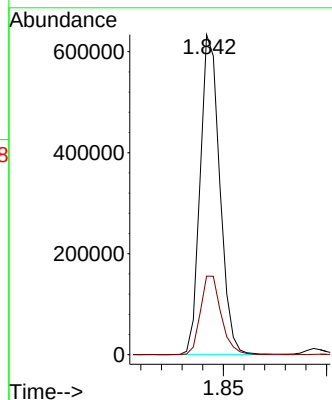
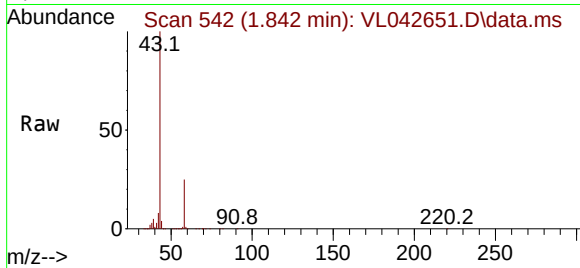




#15
Acetone
Concen: 29.495 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

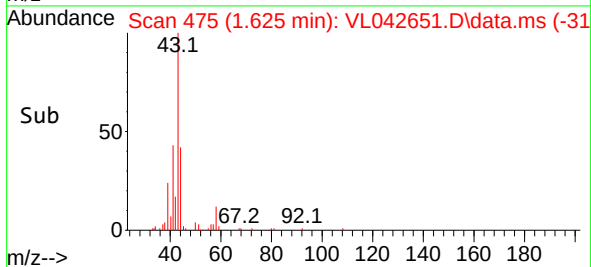
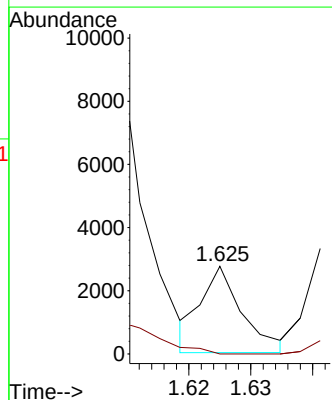
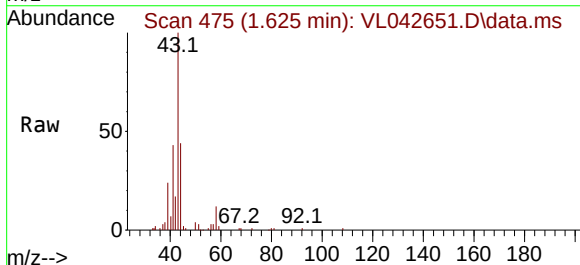
Instrument :
MSVOA_L
ClientSampleId :
SS-1

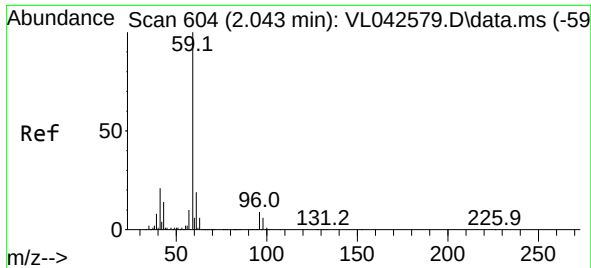
Tgt Ion: 43 Resp: 415203
Ion Ratio Lower Upper
43 100
58 26.1 21.0 31.4



#16
1,3-Butadiene
Concen: 0.189 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.016 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion: 39 Resp: 1263
Ion Ratio Lower Upper
39 100
54 0.0 57.9 86.9#

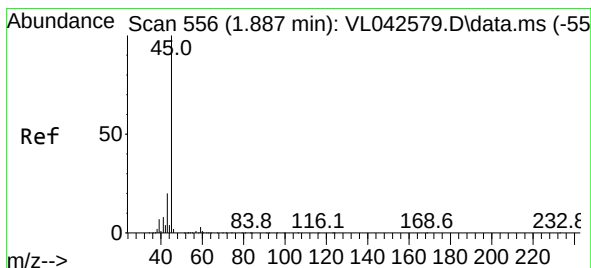
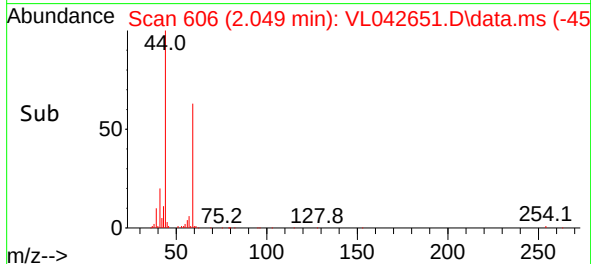
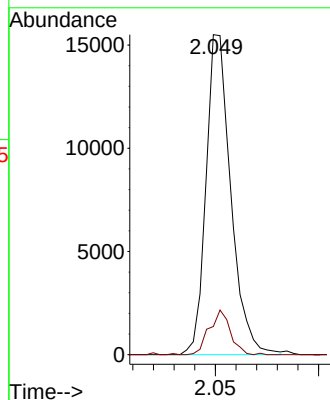
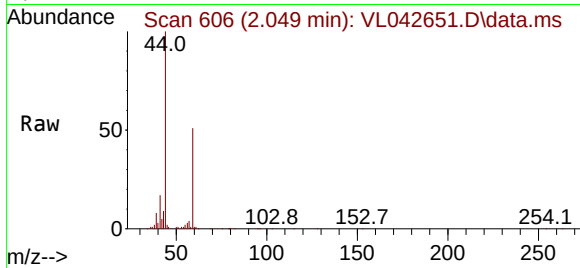




#17
tert-Butyl alcohol
Concen: 0.882 ppbv
RT: 2.049 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

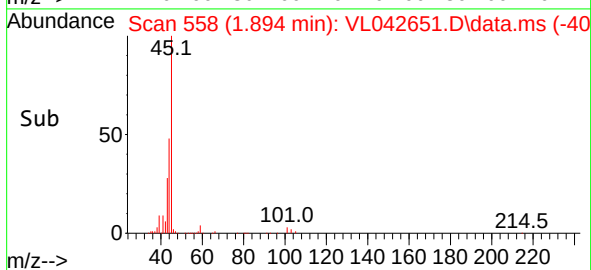
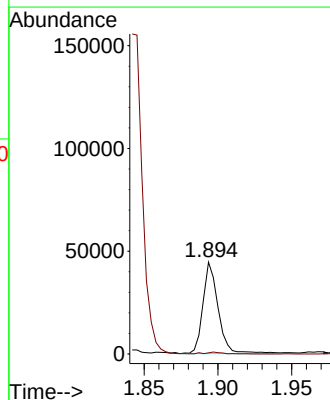
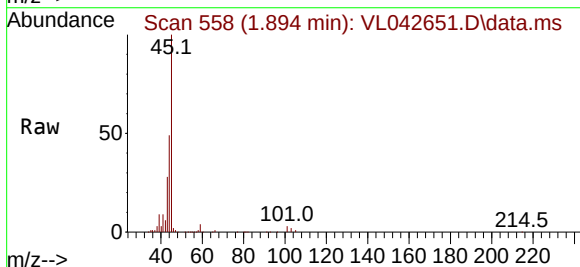
Instrument :
MSVOA_1
ClientSampleId :
SS-1

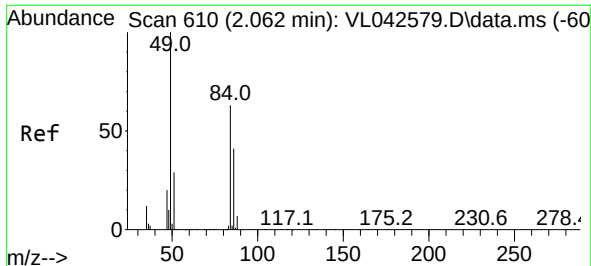
Tgt Ion: 59 Resp: 12937
Ion Ratio Lower Upper
59 100
57 11.9 8.6 12.8



#19
Isopropyl Alcohol
Concen: 3.788 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.006 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion: 45 Resp: 31874
Ion Ratio Lower Upper
45 100
58 339.3 29.4 44.2#

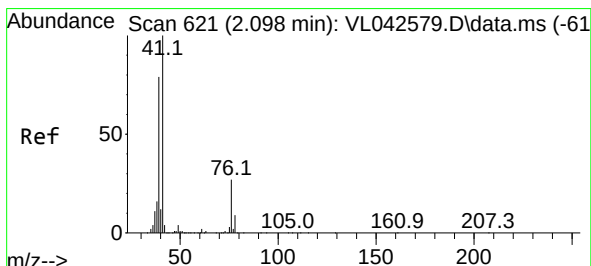
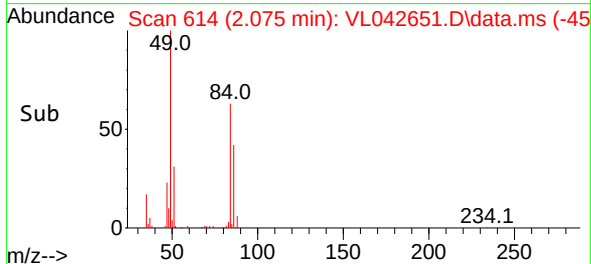
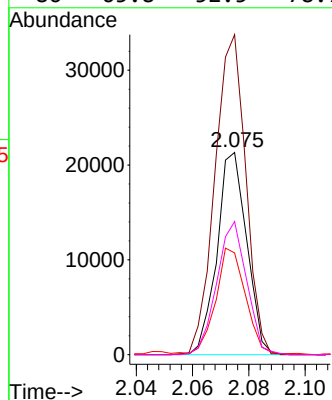
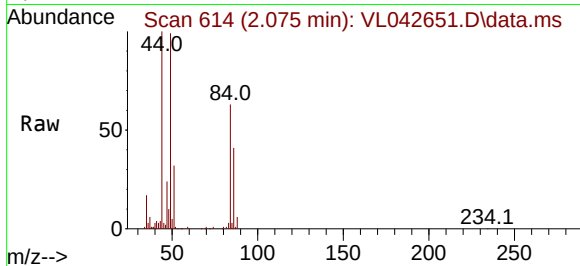




#20
Methylene Chloride
Concen: 3.370 ppbv
RT: 2.075 min Scan# 610
Delta R.T. 0.013 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

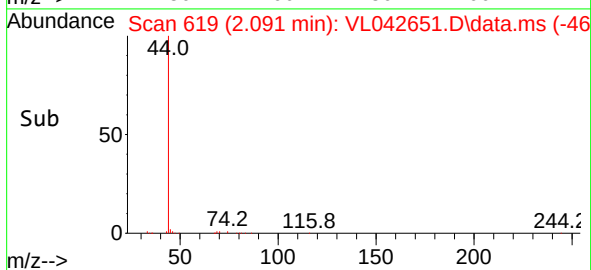
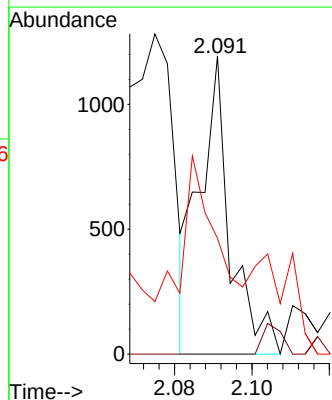
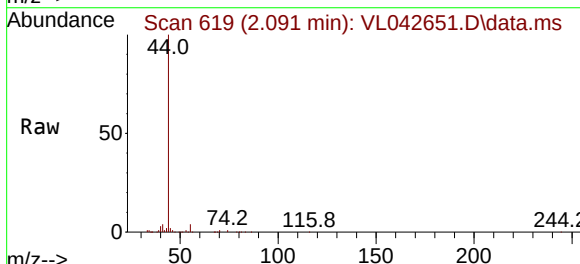
Instrument :
MSVOA_L
ClientSampleId :
SS-1

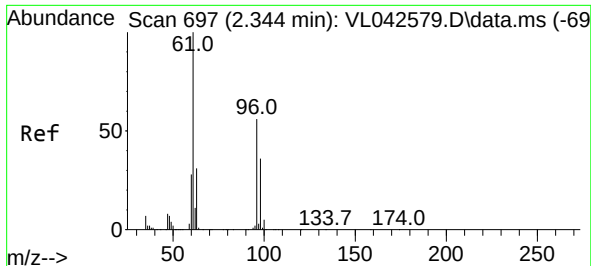
Tgt Ion:	84	Resp:	15655
Ion	Ratio	Lower	Upper
84	100		
49	157.8	128.8	193.2
51	49.8	38.6	57.8
86	65.8	52.5	78.7



#21
Allyl Chloride
Concen: 0.066 ppbv
RT: 2.091 min Scan# 619
Delta R.T. -0.006 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion:	41	Resp:	655
Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.2	31.8#
39	0.0	60.9	91.3#

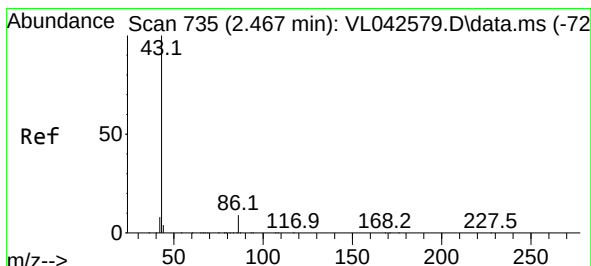
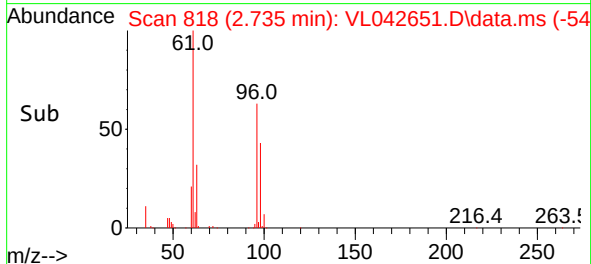
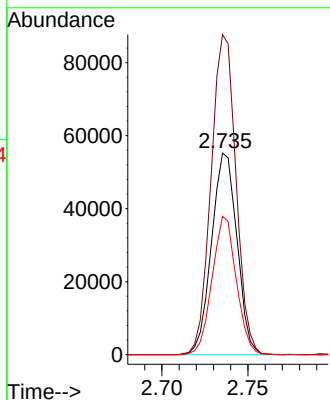
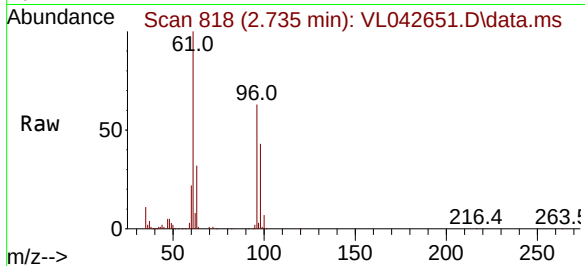




#22
trans-1,2-Dichloroethene
Concen: 10.466 ppbv
RT: 2.735 min Scan# 81
Delta R.T. 0.392 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

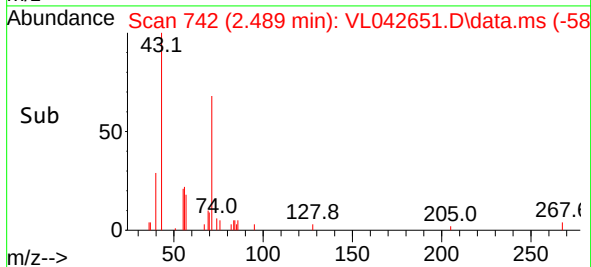
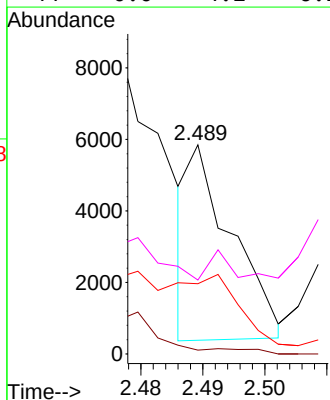
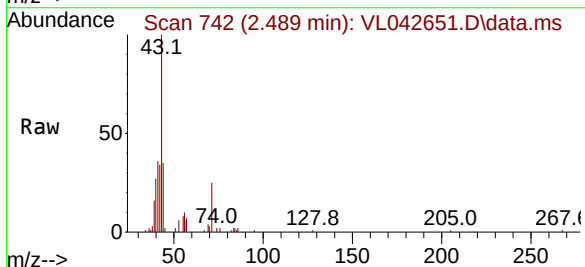
Instrument :
MSVOA_L
ClientSampleId :
SS-1

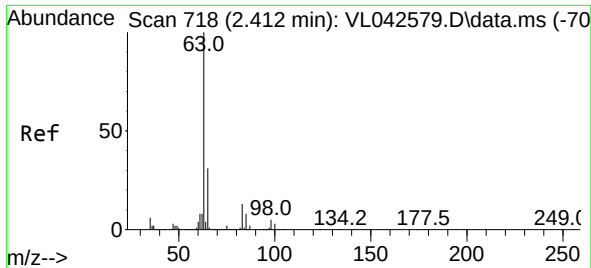
Tgt Ion: 96 Resp: 56862
Ion Ratio Lower Upper
96 100
61 158.7 142.6 214.0
98 68.7 51.0 76.4



#23
Vinyl Acetate
Concen: 0.138 ppbv
RT: 2.489 min Scan# 742
Delta R.T. 0.023 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion: 43 Resp: 2635
Ion Ratio Lower Upper
43 100
86 2.1 6.6 9.8#
42 33.8 7.0 10.4#
44 0.0 4.2 6.2#

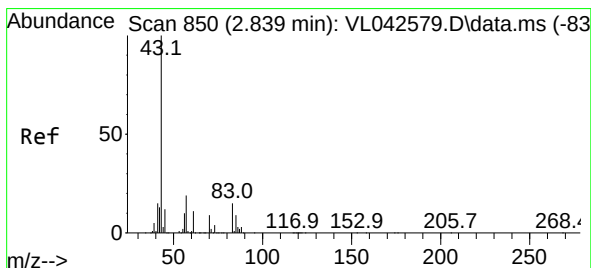
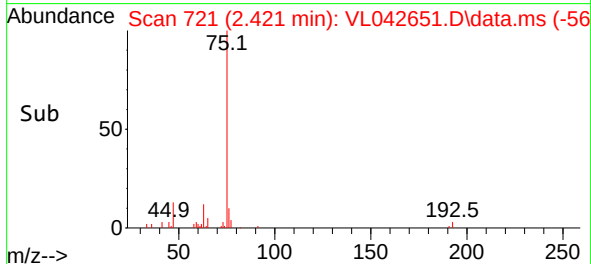
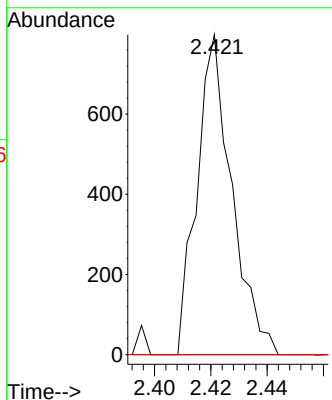
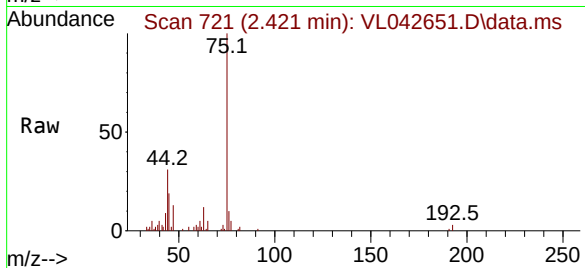




#24
1,1-Dichloroethane
Concen: 0.061 ppbv
RT: 2.421 min Scan# 718
Delta R.T. 0.010 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

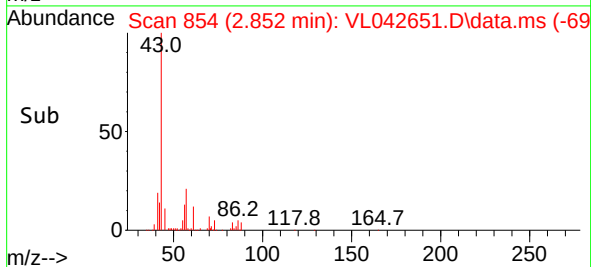
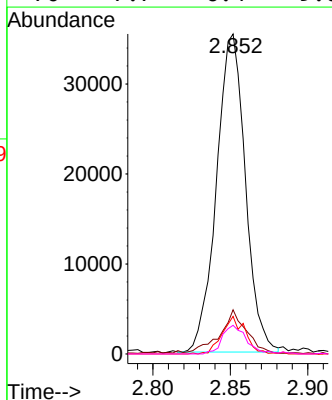
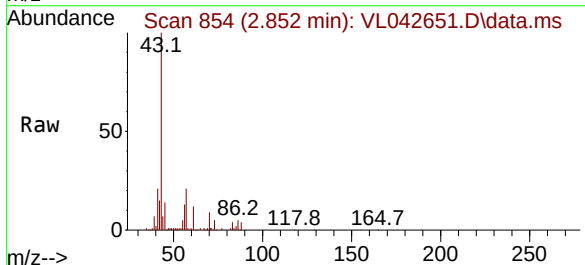
Instrument :
MSVOA_L
ClientSampleId :
SS-1

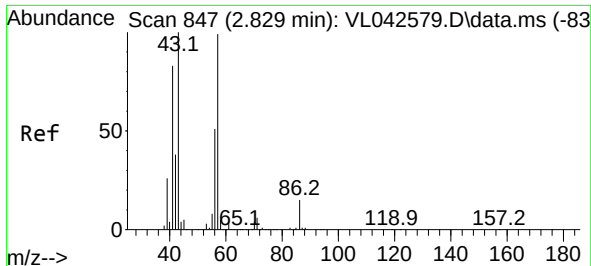
Tgt Ion: 63	Resp: 687
Ion Ratio	Lower Upper
63 100	
98 0.0	2.4 7.1#
100 0.0	1.4 4.0#



#25
Ethyl Acetate
Concen: 1.190 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.013 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt	Ion: 43	Resp:	45842
Ion	Ratio	Lower	Upper
43	100		
45	13.7	8.2	12.2#
61	9.6	7.1	10.7
70	7.7	6.4	9.6

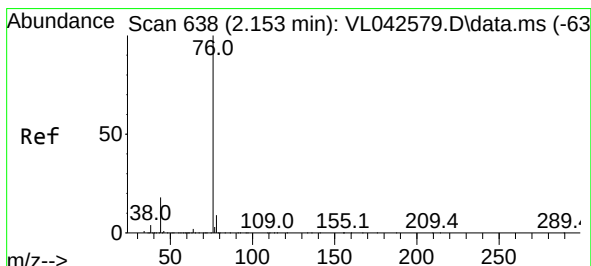
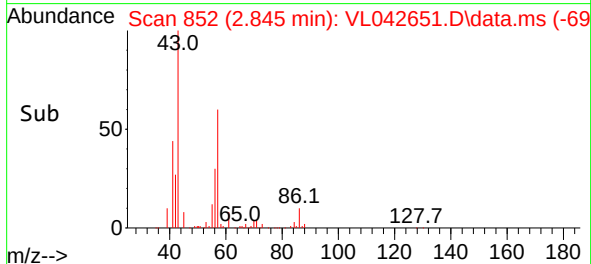
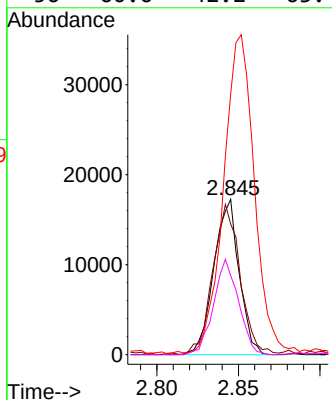
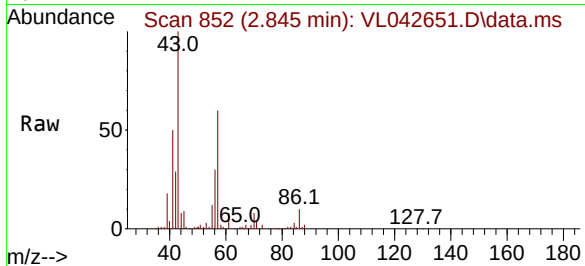




#26
Hexane
Concen: 1.062 ppbv
RT: 2.845 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

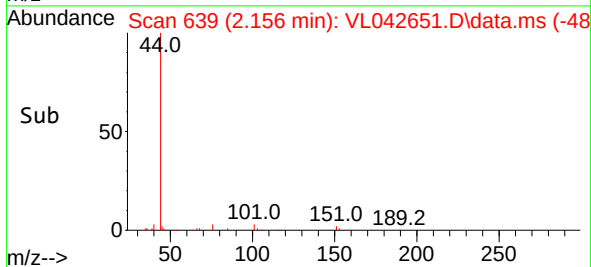
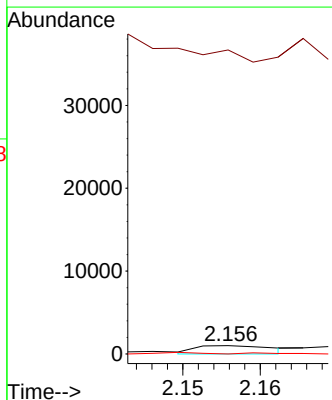
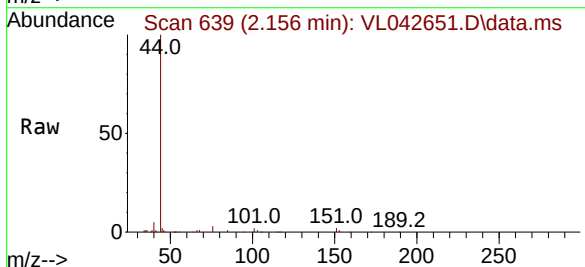
Instrument :
MSVOA_L
ClientSampleId :
SS-1

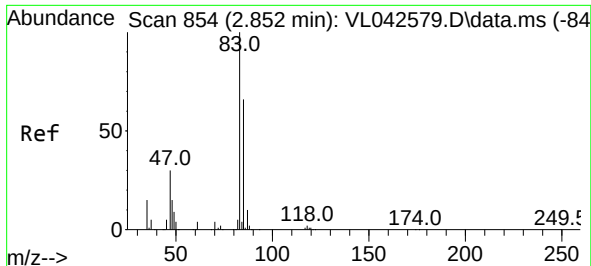
Tgt Ion: 57 Resp: 18589
Ion Ratio Lower Upper
57 100
41 101.5 70.6 106.0
43 260.7 181.1 271.7
56 60.6 42.2 63.4



#27
Carbon Disulfide
Concen: 0.051 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.003 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion: 76 Resp: 689
Ion Ratio Lower Upper
76 100
44 0.0 21.3 31.9#
78 0.0 9.4 14.0#





#29

Chloroform

Concen: 0.269 ppbv

RT: 2.865 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

Instrument :

MSVOA_L

ClientSampleId :

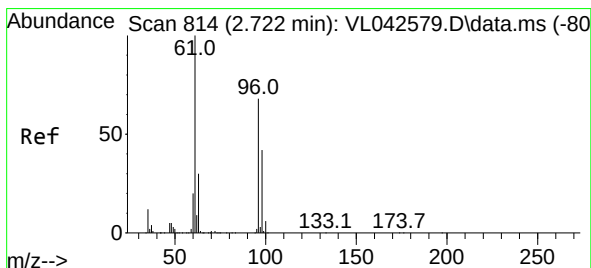
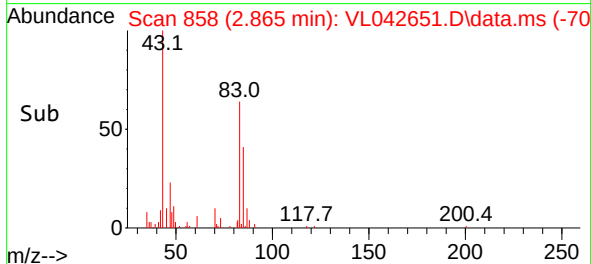
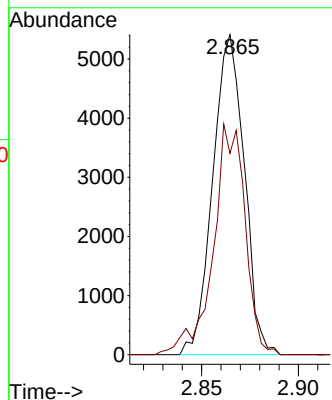
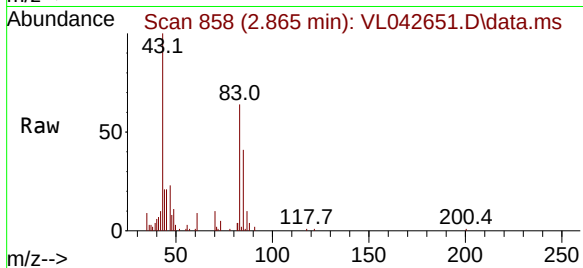
SS-1

Tgt Ion: 83 Resp: 6123

Ion Ratio Lower Upper

83 100

85 62.9 52.8 79.2



#31

cis-1,2-Dichloroethene

Concen: 5.513 ppbv

RT: 2.735 min Scan# 818

Delta R.T. 0.013 min

Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

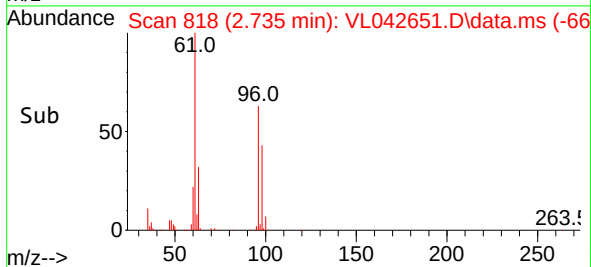
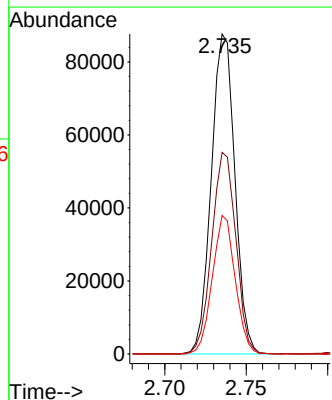
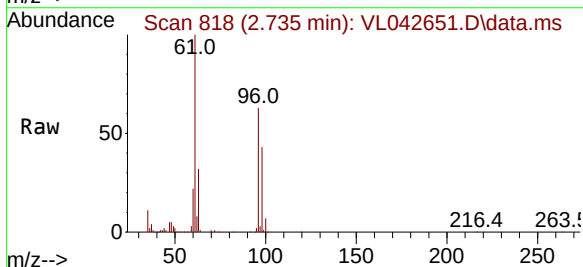
Tgt Ion: 61 Resp: 88276

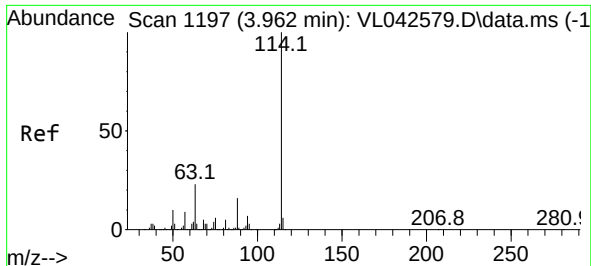
Ion Ratio Lower Upper

61 100

96 63.0 54.5 81.7

98 43.3 33.4 50.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1197

Delta R.T. 0.016 min

Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

Instrument :

MSVOA_L

ClientSampleId :

SS-1

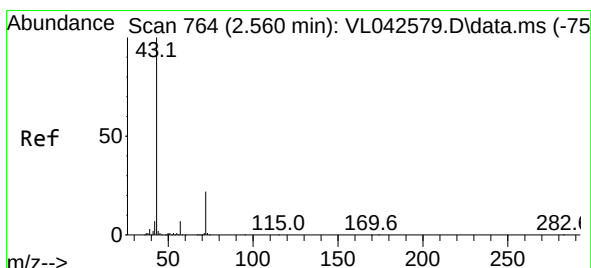
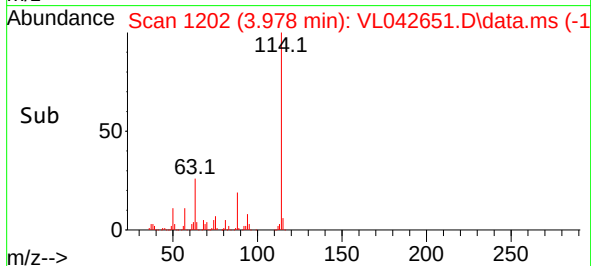
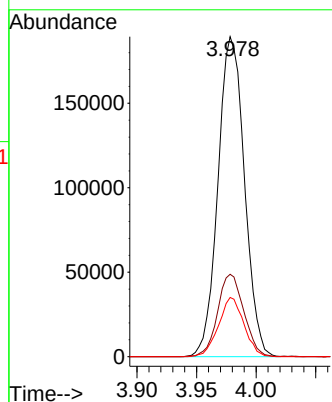
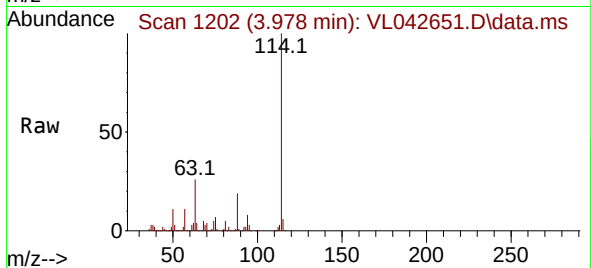
Tgt Ion:114 Resp: 292359

Ion Ratio Lower Upper

114 100

63 25.6 19.0 28.6

88 17.7 13.6 20.4



#34

2-Butanone

Concen: 2.922 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.010 min

Lab File: VL042651.D

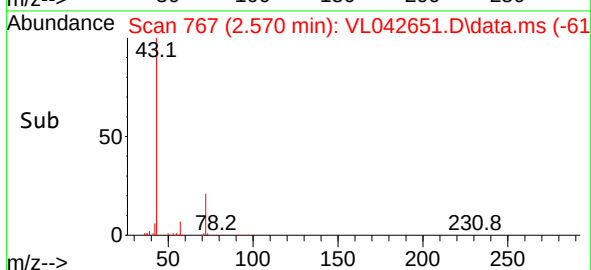
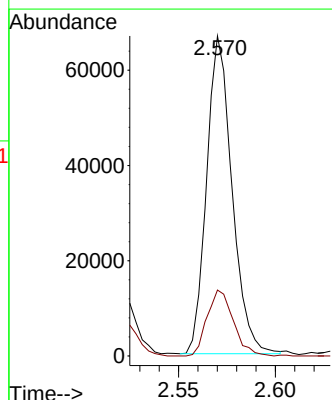
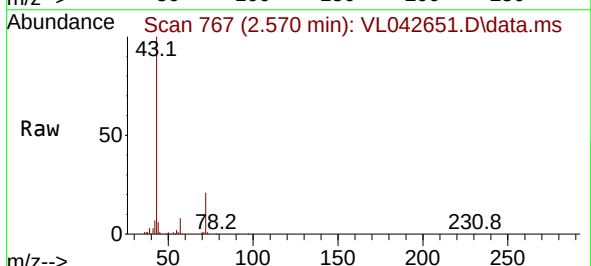
Acq: 19 Jun 2025 11:58

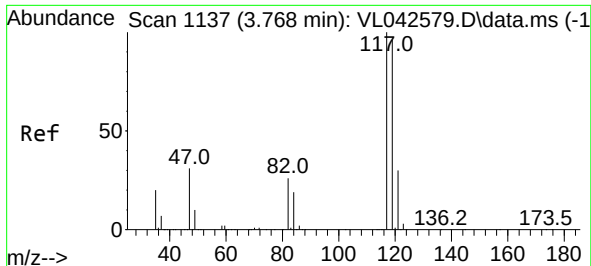
Tgt Ion: 43 Resp: 60913

Ion Ratio Lower Upper

43 100

72 21.5 17.7 26.5

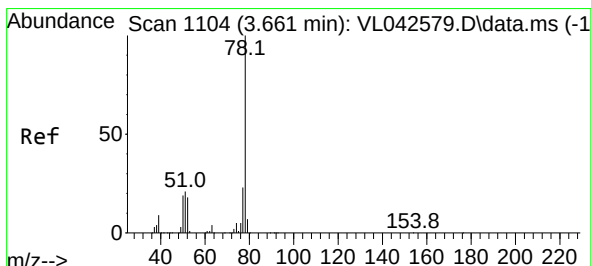
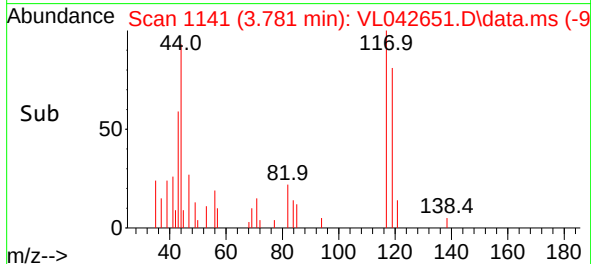
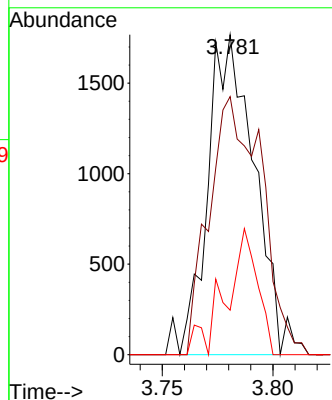
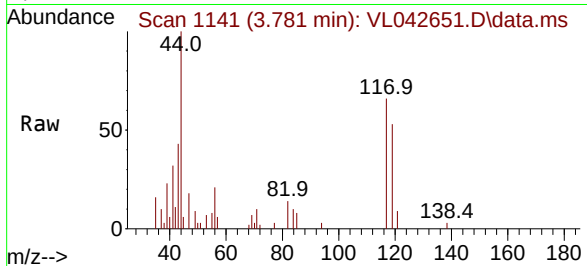




#35
Carbon Tetrachloride
Concen: 0.130 ppbv
RT: 3.781 min Scan# 1137
Delta R.T. 0.013 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

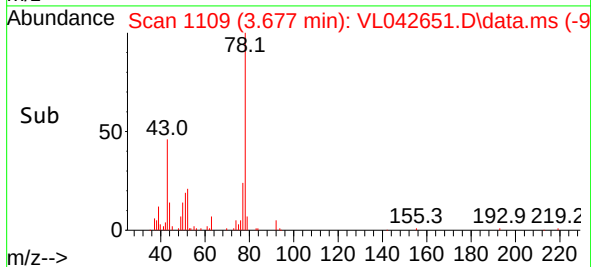
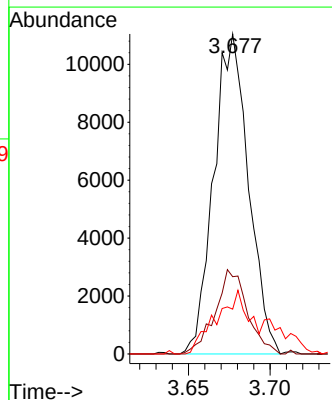
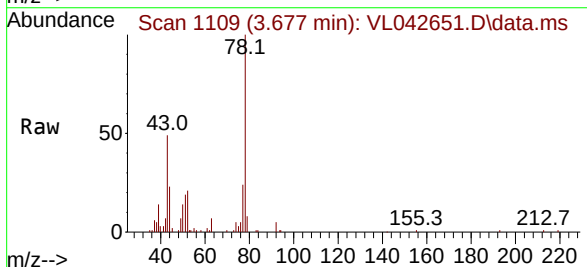
Instrument :
MSVOA_L
ClientSampleId :
SS-1

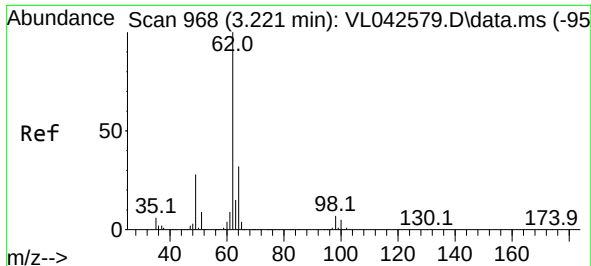
Tgt Ion:117 Resp: 2514
Ion Ratio Lower Upper
117 100
119 80.7 76.8 115.2
121 13.9 24.3 36.5#



#36
Benzene
Concen: 0.569 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.016 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion: 78 Resp: 16370
Ion Ratio Lower Upper
78 100
77 24.2 18.2 27.2
50 13.4 15.2 22.8#

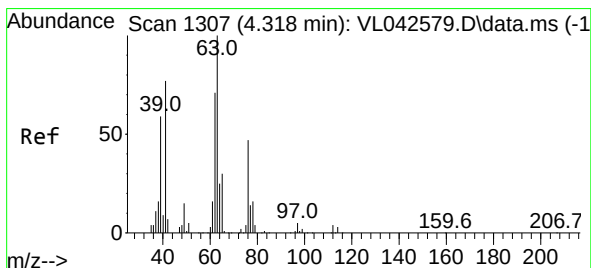
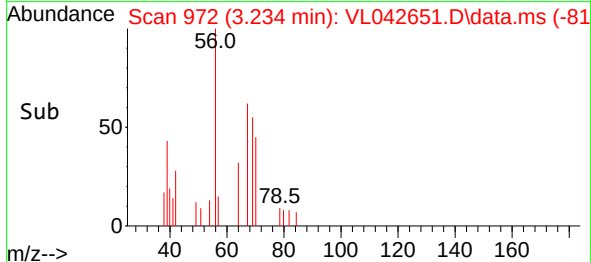
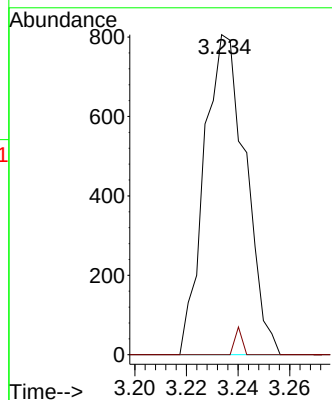
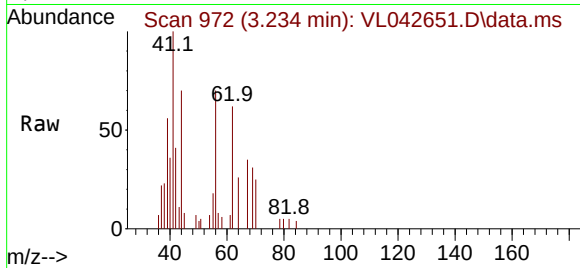




#37
1,2-Dichloroethane
Concen: 0.063 ppbv
RT: 3.234 min Scan# 91
Delta R.T. 0.013 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

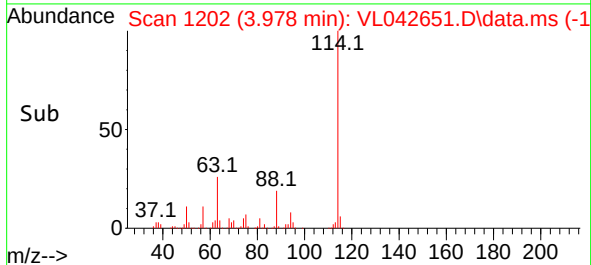
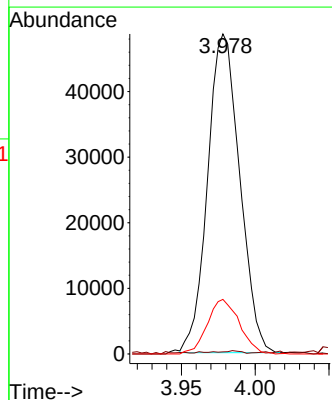
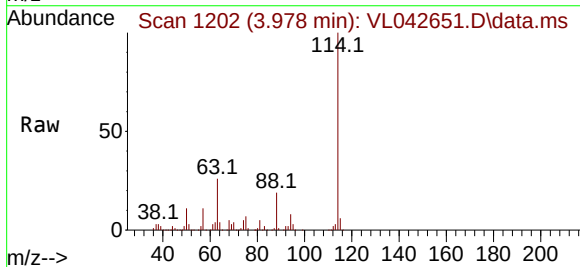
Instrument :
MSVOA_L
ClientSampleId :
SS-1

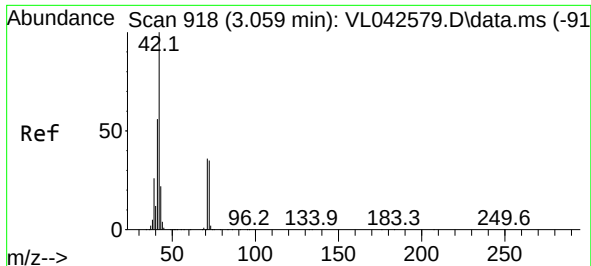
Tgt Ion: 62 Resp: 895
Ion Ratio Lower Upper
62 100
98 0.0 6.1 9.1#



#39
1,2-Dichloropropane
Concen: 6.903 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. -0.340 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion: 63 Resp: 73493
Ion Ratio Lower Upper
63 100
41 0.2 61.8 92.6#
62 17.1 56.6 85.0#

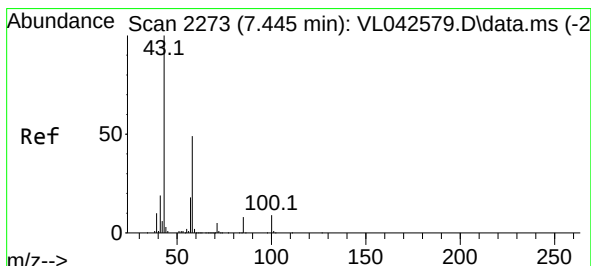
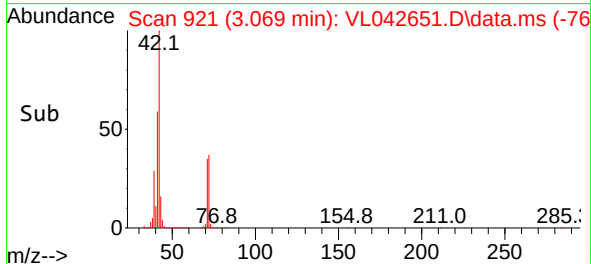
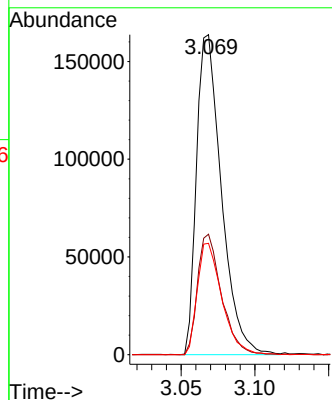
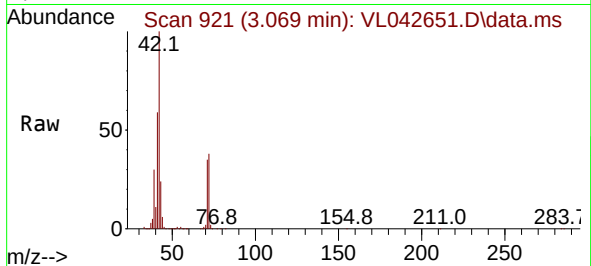




#41
Tetrahydrofuran
Concen: 15.742 ppbv
RT: 3.069 min Scan# 918
Delta R.T. 0.010 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

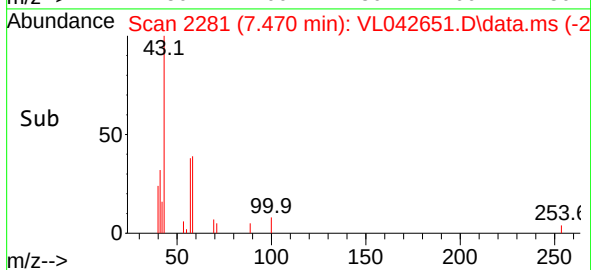
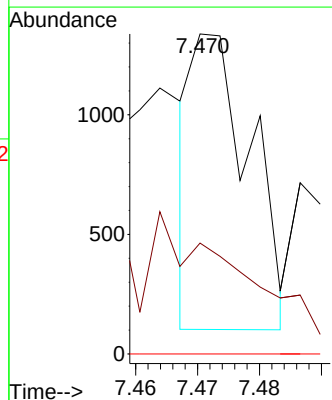
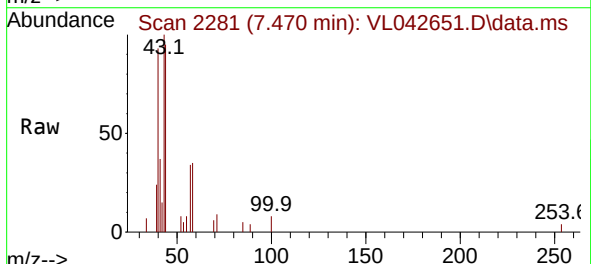
Instrument :
MSVOA_L
ClientSampleId :
SS-1

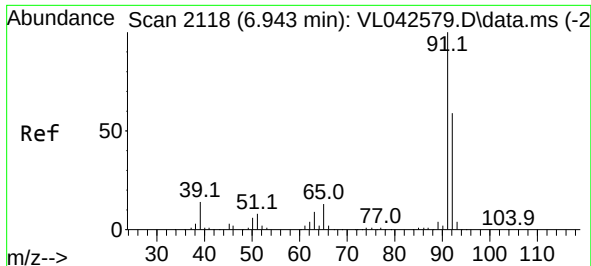
Tgt Ion: 42 Resp: 192120
Ion Ratio Lower Upper
42 100
72 36.2 28.9 43.3
71 34.3 28.5 42.7



#51
2-Hexanone
Concen: 0.035 ppbv
RT: 7.470 min Scan# 2281
Delta R.T. 0.026 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion: 43 Resp: 804
Ion Ratio Lower Upper
43 100
58 0.0 39.9 59.9#
98 0.0 0.1 0.1#

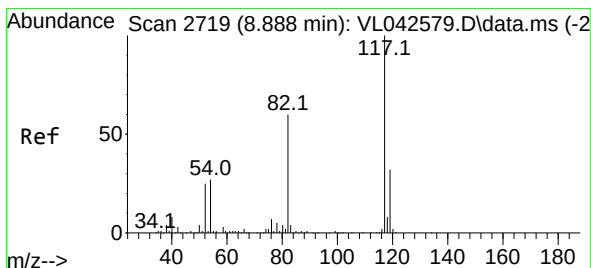
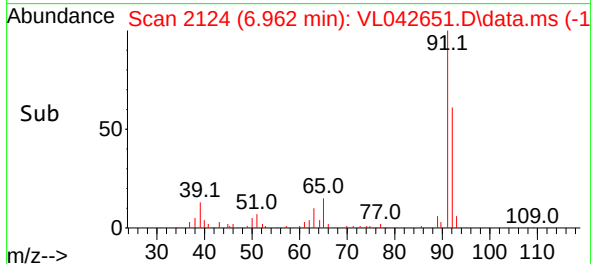
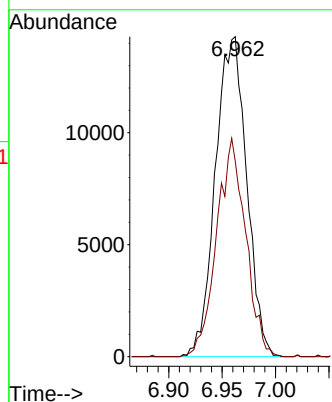
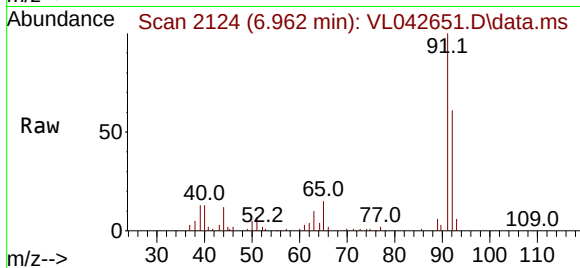




#53
Toluene
Concen: 0.874 ppbv
RT: 6.962 min Scan# 2118
Delta R.T. 0.019 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

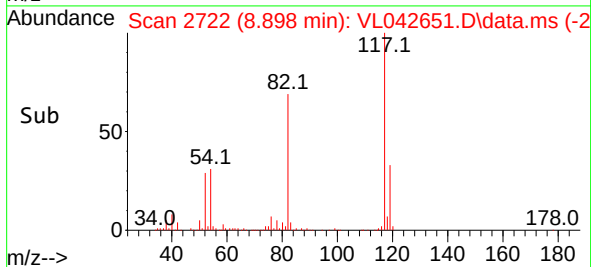
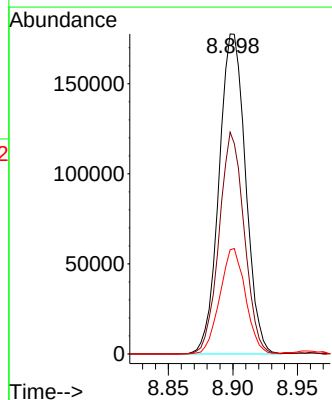
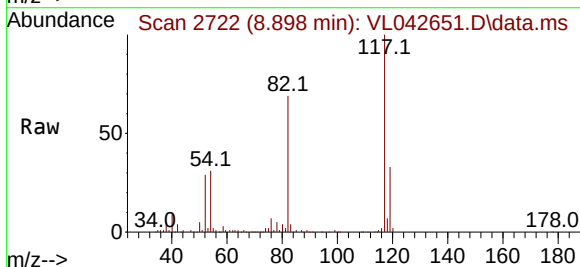
Instrument :
MSVOA_L
ClientSampleId :
SS-1

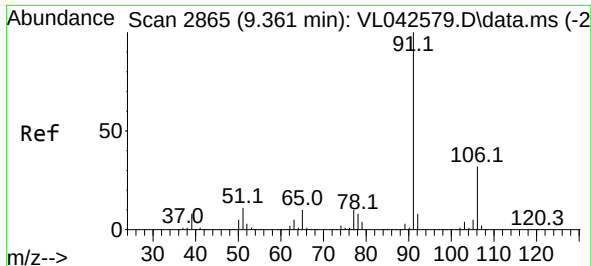
Tgt Ion: 91 Resp: 29076
Ion Ratio Lower Upper
91 100
92 63.4 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.010 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion: 117 Resp: 253888
Ion Ratio Lower Upper
117 100
82 65.6 51.2 76.8
119 32.0 26.3 39.5





#58

Ethyl Benzene

Concen: 0.546 ppbv

RT: 9.374 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

Instrument :

MSVOA_L

ClientSampleId :

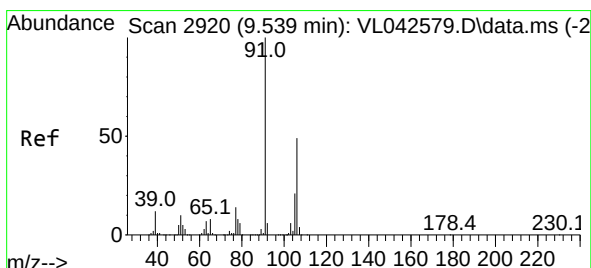
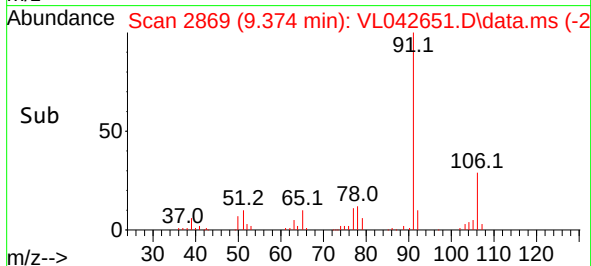
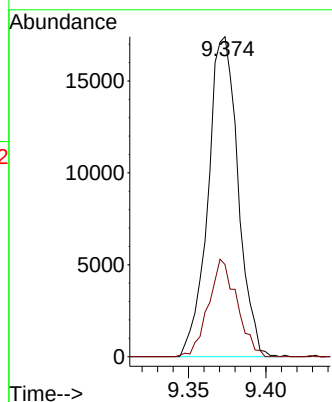
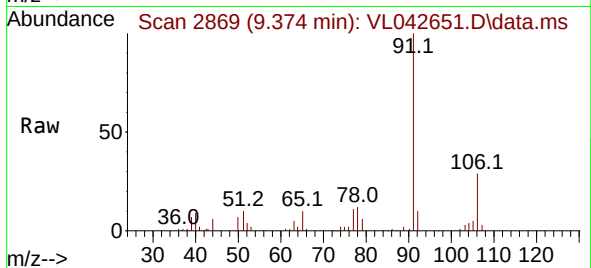
SS-1

Tgt Ion: 91 Resp: 23504

Ion Ratio Lower Upper

91 100

106 28.8 25.9 38.9



#59

m/p-Xylene

Concen: 2.961 ppbv

RT: 9.548 min Scan# 2923

Delta R.T. 0.010 min

Lab File: VL042651.D

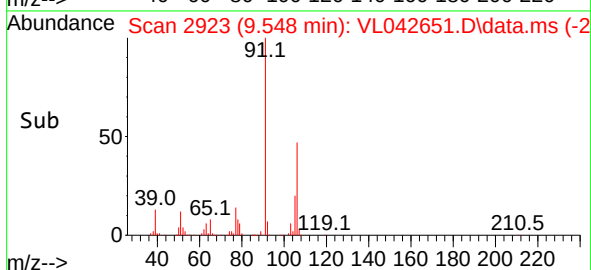
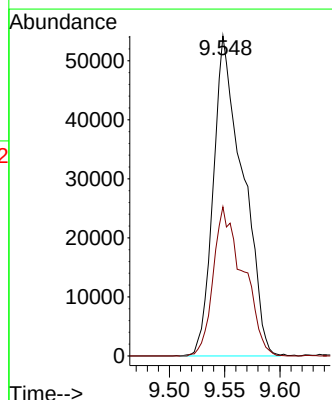
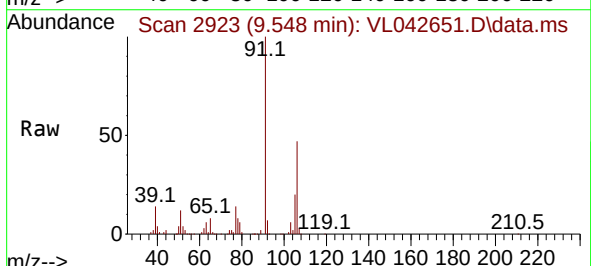
Acq: 19 Jun 2025 11:58

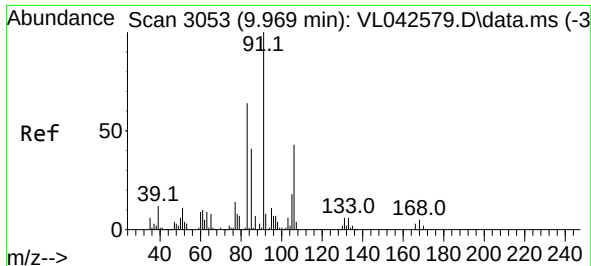
Tgt Ion: 91 Resp: 100363

Ion Ratio Lower Upper

91 100

106 47.3 38.8 58.2

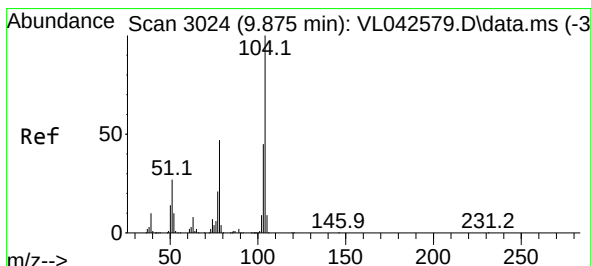
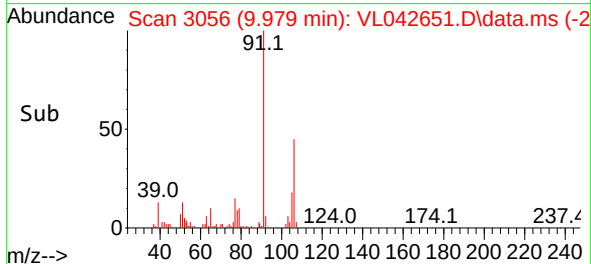
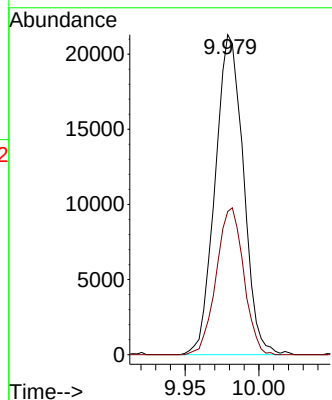
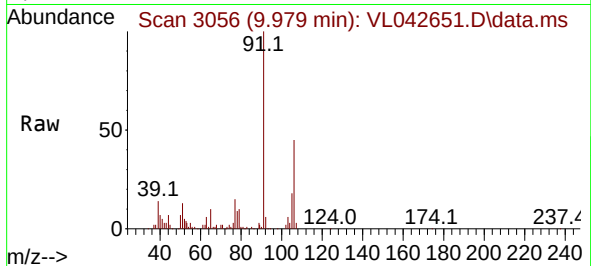




#60
o-Xylene
Concen: 0.839 ppbv
RT: 9.979 min Scan# 3053
Delta R.T. 0.010 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

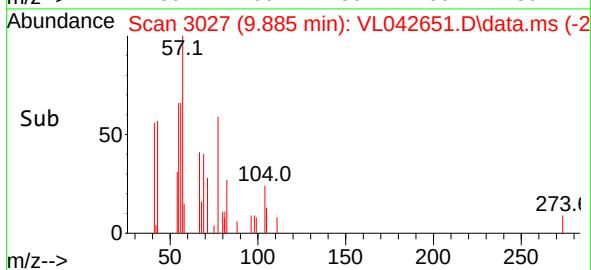
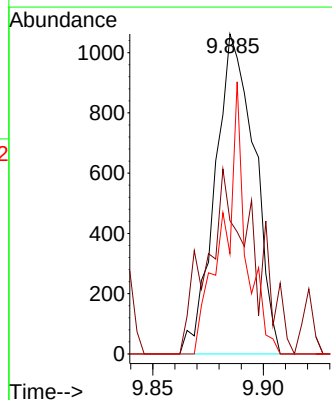
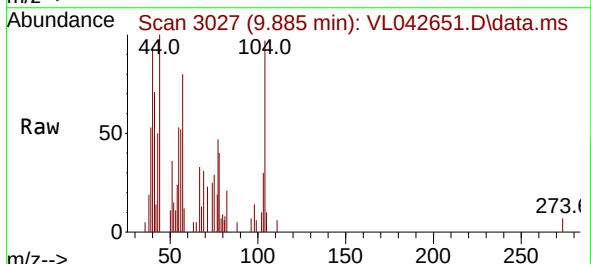
Instrument :
MSVOA_L
ClientSampleId :
SS-1

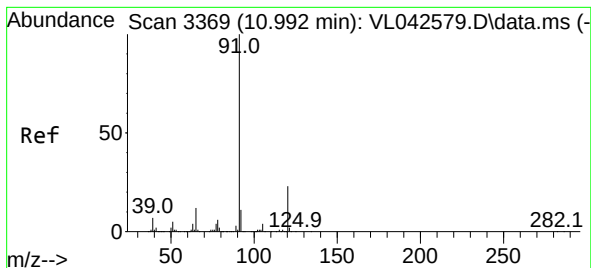
Tgt Ion: 91 Resp: 28349
Ion Ratio Lower Upper
91 100
106 44.5 22.9 68.5



#61
Styrene
Concen: 0.082 ppbv
RT: 9.885 min Scan# 3027
Delta R.T. 0.010 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion: 104 Resp: 1313
Ion Ratio Lower Upper
104 100
78 73.6 38.2 57.4#
103 49.2 36.7 55.1





#64

n-propylbenzene

Concen: 0.105 ppbv

RT: 11.005 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

Instrument :

MSVOA_L

ClientSampleId :

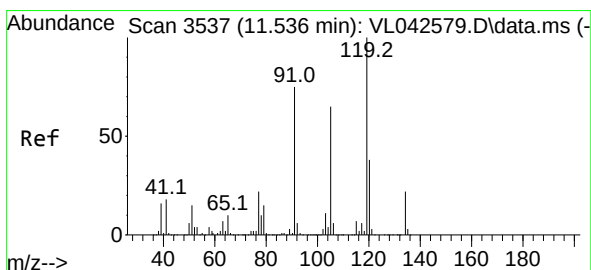
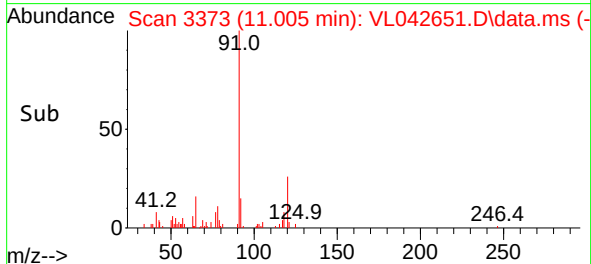
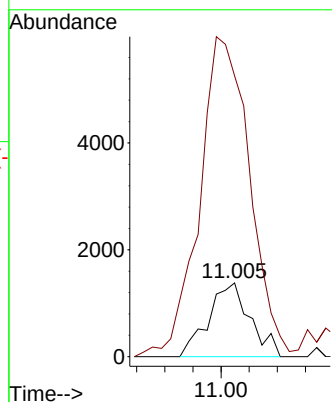
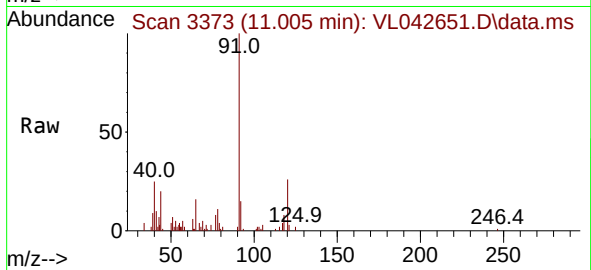
SS-1

Tgt Ion:120 Resp: 1409

Ion Ratio Lower Upper

120 100

91 526.2 363.0 544.6



#65

tert-Butylbenzene

Concen: 0.095 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.013 min

Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

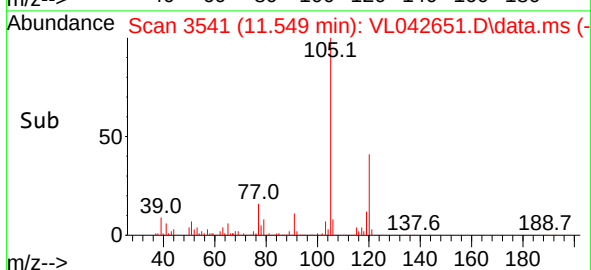
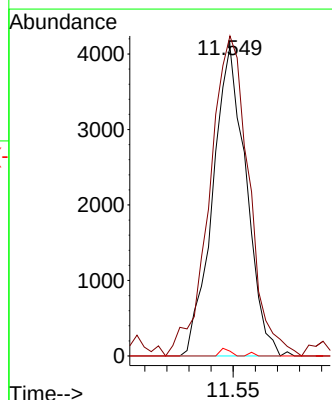
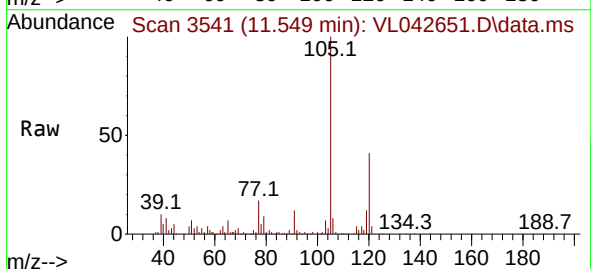
Tgt Ion:119 Resp: 4306

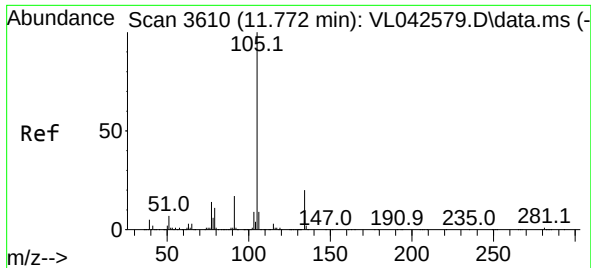
Ion Ratio Lower Upper

119 100

91 124.8 61.1 91.7#

134 0.0 17.4 26.2#

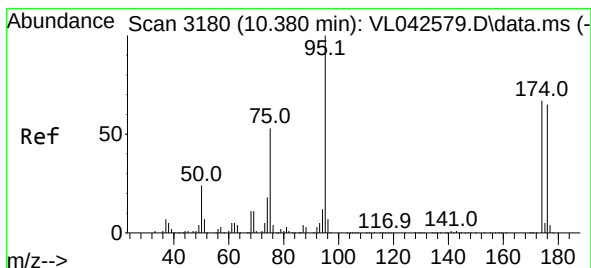
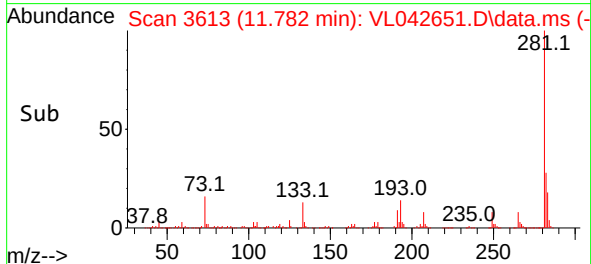
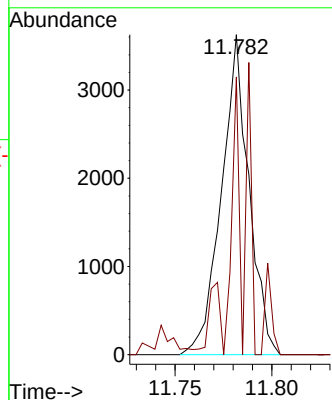
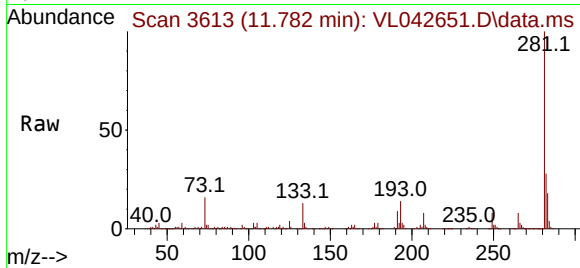




#67
 sec-Butylbenzene
 Concen: 0.056 ppbv
 RT: 11.782 min Scan# 3613
 Delta R.T. 0.010 min
 Lab File: VL042651.D
 Acq: 19 Jun 2025 11:58

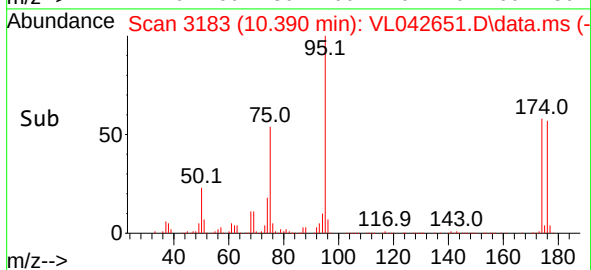
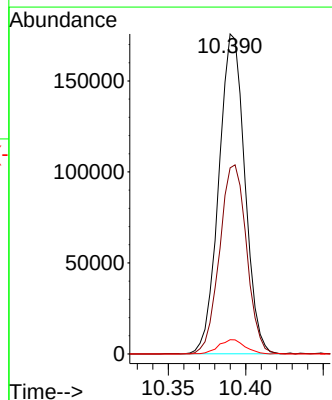
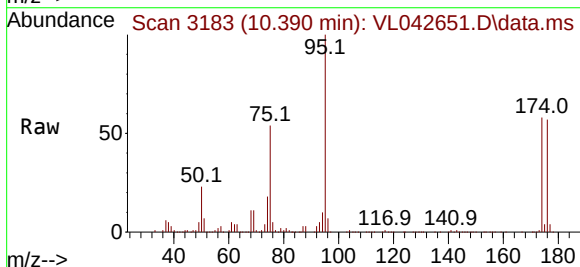
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

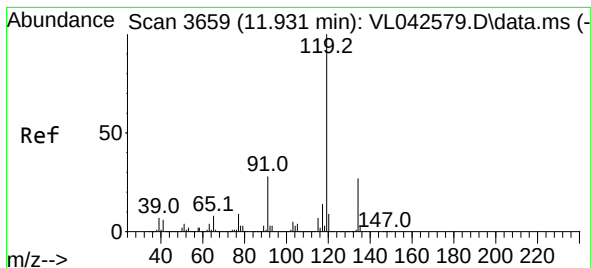
Tgt Ion:105 Resp: 3567
 Ion Ratio Lower Upper
 105 100
 134 62.9 15.8 23.6#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.769 ppbv
 RT: 10.390 min Scan# 3183
 Delta R.T. 0.010 min
 Lab File: VL042651.D
 Acq: 19 Jun 2025 11:58

Tgt Ion: 95 Resp: 204963
 Ion Ratio Lower Upper
 95 100
 174 61.5 53.1 79.7
 175 4.6 4.2 6.2





#69

p-Isopropyltoluene

Concen: 0.074 ppbv

RT: 11.937 min Scan# 3

Delta R.T. 0.006 min

Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

Instrument :

MSVOA_L

ClientSampleId :

SS-1

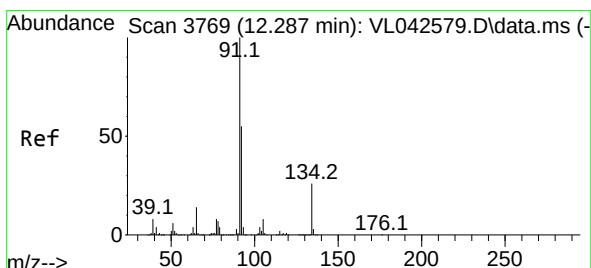
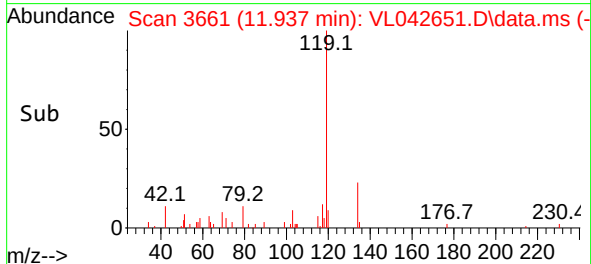
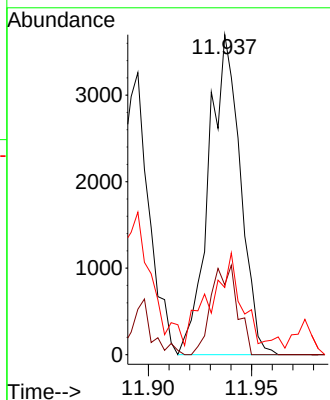
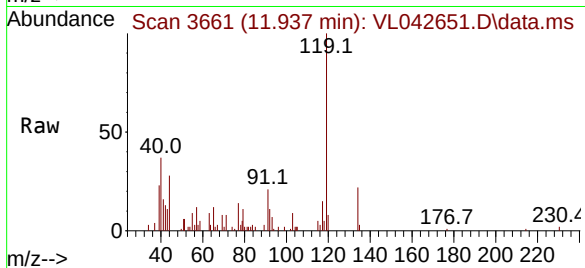
Tgt Ion:119 Resp: 3934

Ion Ratio Lower Upper

119 100

134 23.1 21.1 31.7

91 31.1 21.9 32.9



#70

n-Butylbenzene

Concen: 0.031 ppbv

RT: 12.303 min Scan# 3774

Delta R.T. 0.016 min

Lab File: VL042651.D

Acq: 19 Jun 2025 11:58

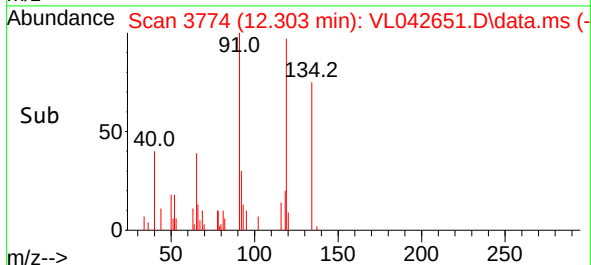
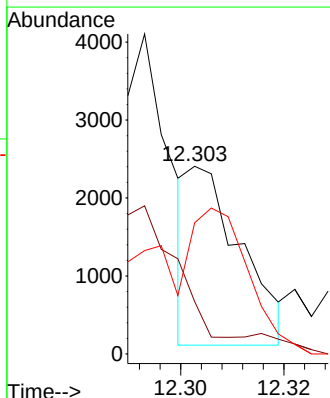
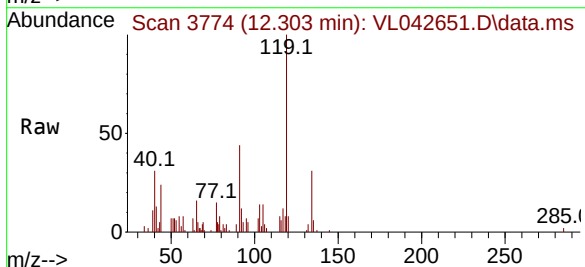
Tgt Ion: 91 Resp: 1635

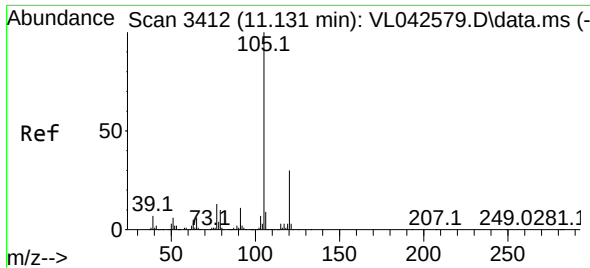
Ion Ratio Lower Upper

91 100

92 0.0 44.4 66.6#

134 201.5 20.1 30.1#

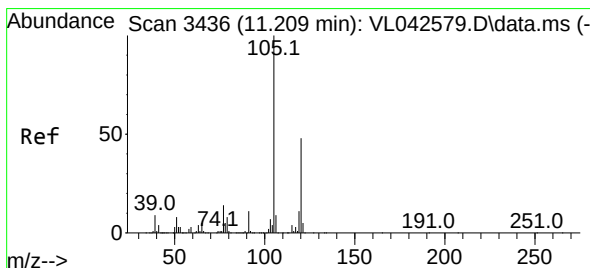
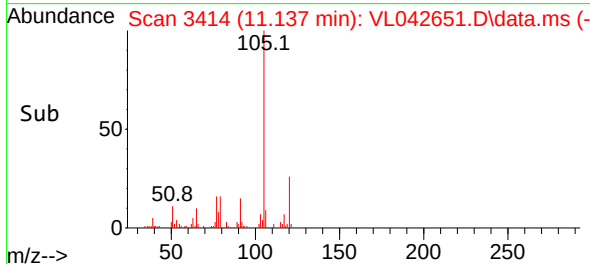
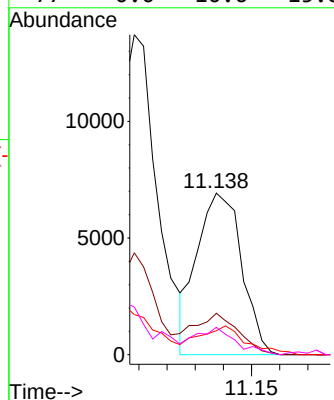
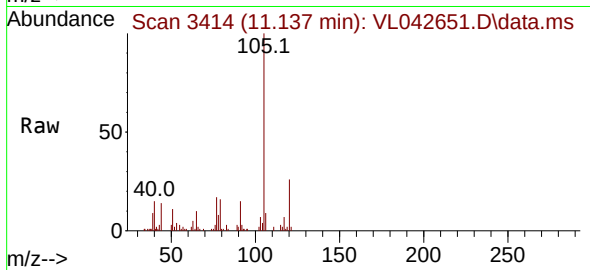




#72
4-Ethyltoluene
Concen: 0.181 ppbv
RT: 11.137 min Scan# 3412
Delta R.T. 0.006 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

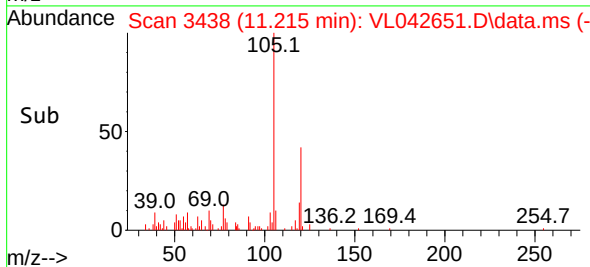
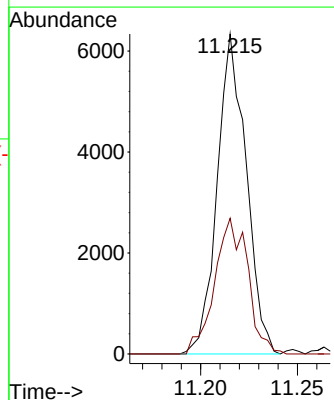
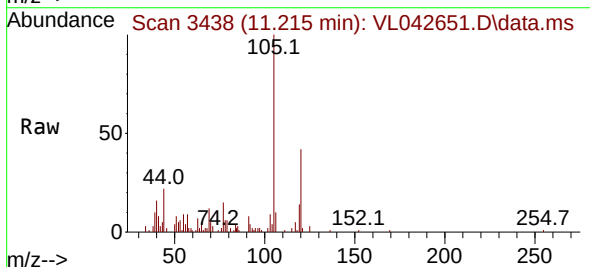
Instrument :
MSVOA_L
ClientSampleId :
SS-1

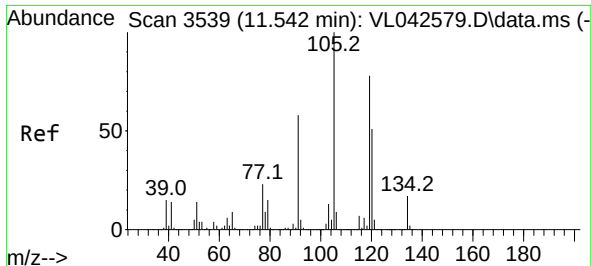
Tgt Ion:	105	Resp:	7640
Ion Ratio	Lower	Upper	
105	100		
120	0.0	24.6	36.8#
91	0.0	9.6	14.4#
77	0.0	10.6	15.8#



#73
1,3,5-Trimethylbenzene
Concen: 0.189 ppbv
RT: 11.215 min Scan# 3438
Delta R.T. 0.006 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion:	105	Resp:	6608
Ion Ratio	Lower	Upper	
105	100		
120	42.4	38.8	58.2

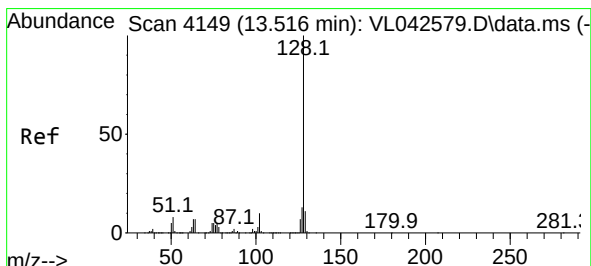
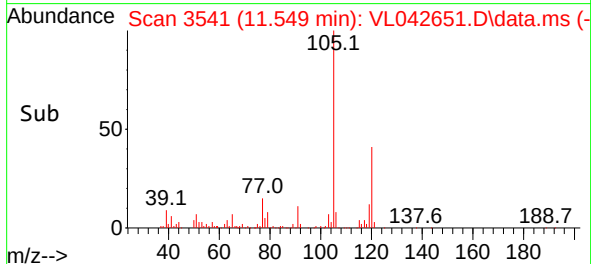
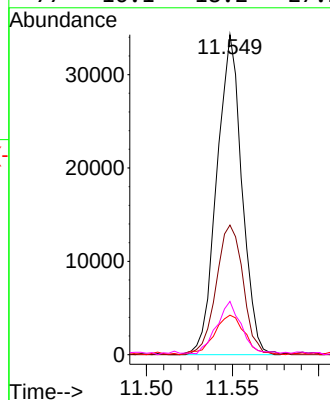
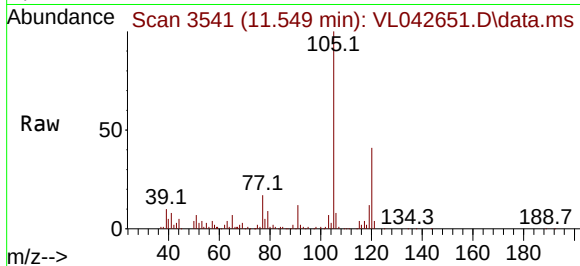




#74
1,2,4-Trimethylbenzene
Concen: 0.899 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. 0.006 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

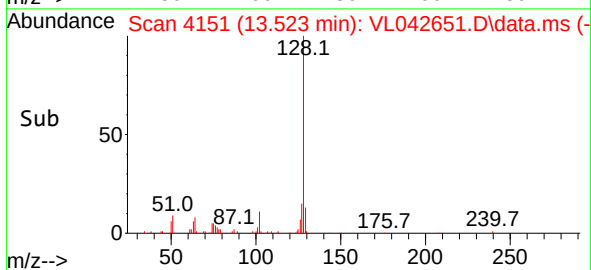
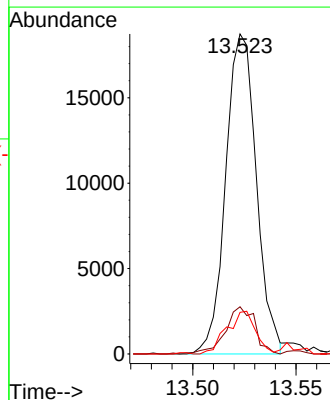
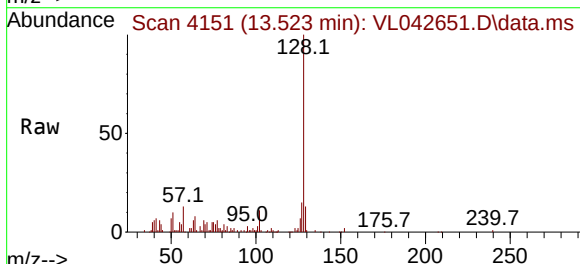
Instrument :
MSVOA_L
ClientSampleId :
SS-1

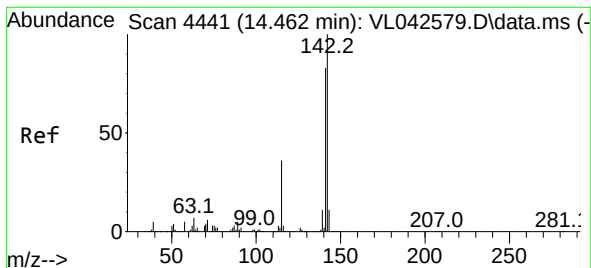
Tgt Ion:105 Resp: 34784
Ion Ratio Lower Upper
105 100
120 40.5 40.8 61.2#
91 12.2 46.8 70.2#
77 16.1 18.2 27.2#



#79
Naphthalene
Concen: 0.530 ppbv
RT: 13.523 min Scan# 4151
Delta R.T. 0.006 min
Lab File: VL042651.D
Acq: 19 Jun 2025 11:58

Tgt Ion:128 Resp: 19325
Ion Ratio Lower Upper
128 100
127 14.8 10.2 15.4
129 12.6 8.8 13.2





#80

Naphthalene, 2-methyl-

Concen: 0.767 ppbv

RT: 14.465 min Scan# 44

Delta R.T. 0.003 min

Lab File: VL042651.D

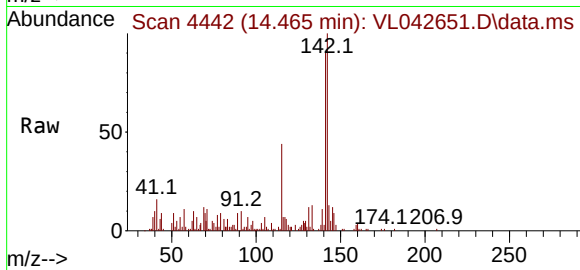
Acq: 19 Jun 2025 11:58

Instrument :

MSVOA_L

ClientSampleId :

SS-1



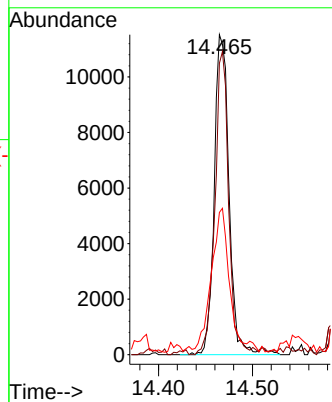
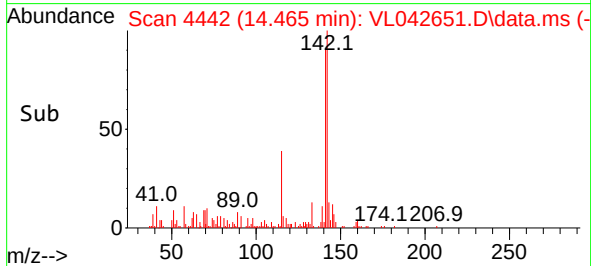
Tgt Ion: 142 Resp: 12637

Ion Ratio Lower Upper

142 100

141 90.5 66.2 99.4

115 57.0 28.3 42.5#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042652.D
 Acq On : 19 Jun 2025 12:34
 Operator : SY/MD
 Sample : Q2359-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP

Quant Time: Jun 20 01:36:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	116053	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.978	114	302999	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	260992	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	203142	10.383	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	8554	0.600	ppbv	98
3) Chlorodifluoromethane	1.450	51	40521	2.063	ppbv #	69
4) Chloromethane	1.535	50	14543	2.575	ppbv	99
5) Vinyl Chloride	1.583	62	194	0.034	ppbv	97
6) Bromomethane	1.671	94	100	0.036	ppbv #	54
7) Chloroethane	1.706	64	346	0.155	ppbv #	83
9) Propene	1.486	41	11455	1.448	ppbv	95
10) Heptane	5.001	43	46385	2.080	ppbv	99
11) Trichlorofluoromethane	1.881	101	3301	0.249	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.153	101	875	0.084	ppbv	92
13) Ethanol	1.729	45	101728	107.902	ppbv	98
15) Acetone	1.842	43	433249	30.993	ppbv	100
16) 1,3-Butadiene	1.622	39	1219	0.184	ppbv #	13
17) tert-Butyl alcohol	2.049	59	13782	0.946	ppbv	99
19) Isopropyl Alcohol	1.894	45	33433	4.001	ppbv #	1
20) Methylene Chloride	2.072	84	16777	3.637	ppbv	98
21) Allyl Chloride	2.049	41	4350	0.441	ppbv #	81
22) trans-1,2-Dichloroethene	2.735	96	59319	10.994	ppbv	87
23) Vinyl Acetate	2.463	43	30066	1.591	ppbv #	93
24) 1,1-Dichloroethane	2.421	63	843	0.076	ppbv #	88
25) Ethyl Acetate	2.849	43	48078	1.257	ppbv #	97
26) Hexane	2.842	57	20557	1.183	ppbv	91
27) Carbon Disulfide	2.153	76	1060	0.079	ppbv #	59
29) Chloroform	2.862	83	6269	0.277	ppbv	100
30) Cyclohexane	3.868	84	582	0.040	ppbv #	1
31) cis-1,2-Dichloroethene	2.735	61	90052	5.663	ppbv	97
34) 2-Butanone	2.567	43	63602	2.943	ppbv	99
35) Carbon Tetrachloride	3.791	117	677	0.034	ppbv	84
36) Benzene	3.674	78	17420	0.584	ppbv #	91
37) 1,2-Dichloroethane	3.234	62	589	0.040	ppbv #	78
39) 1,2-Dichloropropane	3.978	63	76495	6.933	ppbv #	20
41) Tetrahydrofuran	3.066	42	195475	15.454	ppbv	99
44) 2,2,4-Trimethylpentane	4.668	57	1899	0.037	ppbv #	42
53) Toluene	6.956	91	32537	0.943	ppbv	97
58) Ethyl Benzene	9.374	91	11268	0.255	ppbv	98
59) m/p-Xylene	9.545	91	106408	3.054	ppbv	96
60) o-Xylene	9.979	91	30069	0.865	ppbv	98
61) Styrene	9.888	104	679	0.041	ppbv #	24
64) n-propylbenzene	10.999	120	1547	0.112	ppbv	78
65) tert-Butylbenzene	11.546	119	4144	0.089	ppbv #	45
66) Benzyl Chloride	11.633	91	312	0.052	ppbv #	64
69) p-Isopropyltoluene	11.934	119	4057	0.074	ppbv #	82
70) n-Butylbenzene	12.290	91	4324	0.080	ppbv #	56

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
Data File : VL042652.D
Acq On : 19 Jun 2025 12:34
Operator : SY/MD
Sample : Q2359-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

Quant Time: Jun 20 01:36:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

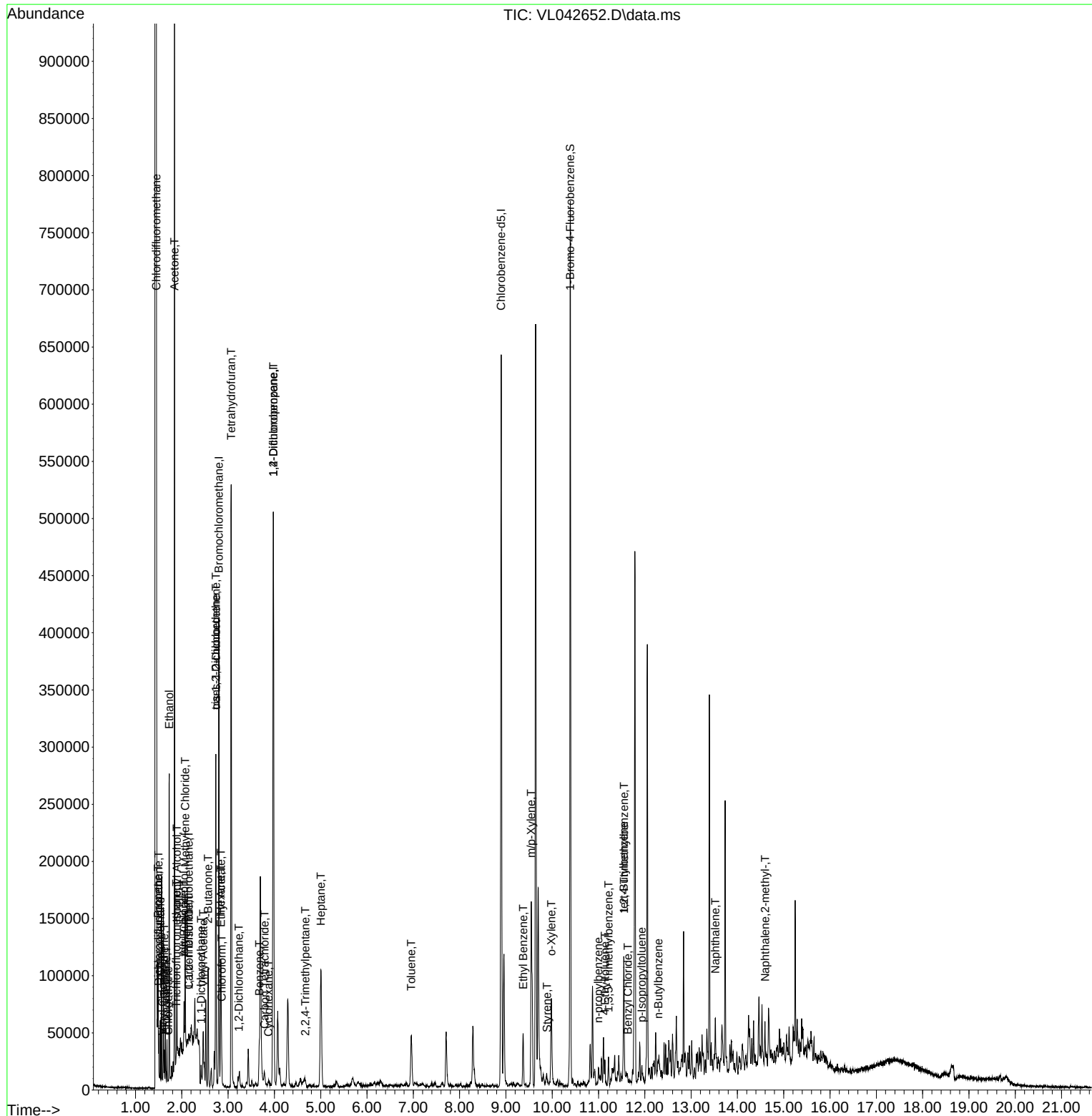
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	11.138	105	7407	0.171	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.215	105	6906	0.193	ppbv	89
74) 1,2,4-Trimethylbenzene	11.549	105	35737	0.898	ppbv #	68
79) Naphthalene	13.523	128	19001	0.507	ppbv #	95
80) Naphthalene,2-methyl-	14.598	142	8925	0.527	ppbv	94

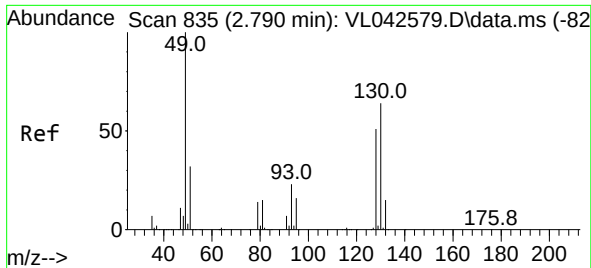
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\  
Data File : VL042652.D  
Acq On    : 19 Jun 2025  12:34  
Operator  : SY/MD  
Sample    : Q2359-01DUP  
Misc      : 400mL/MSVOA_L  
ALS Vial  : 1      Sample Multiplier: 1
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Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

Quant Time: Jun 20 01:36:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

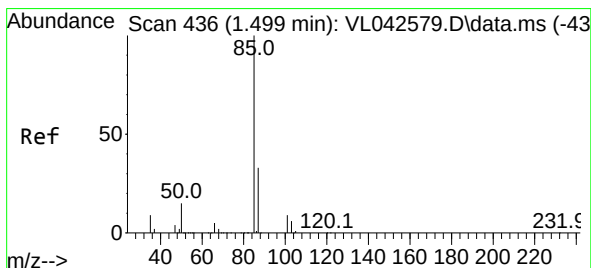
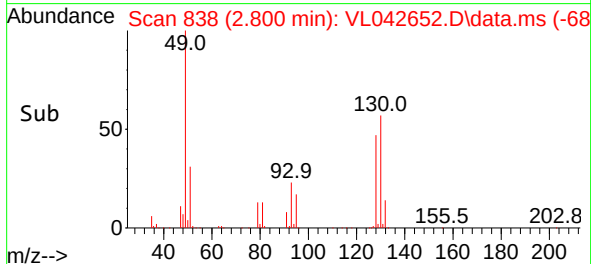
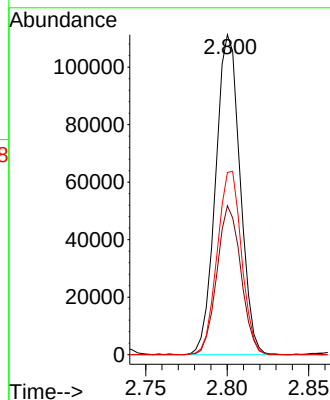
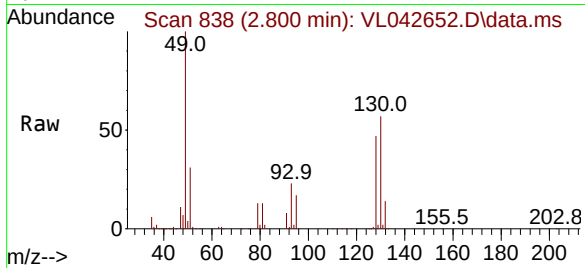




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 835
Delta R.T. 0.010 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

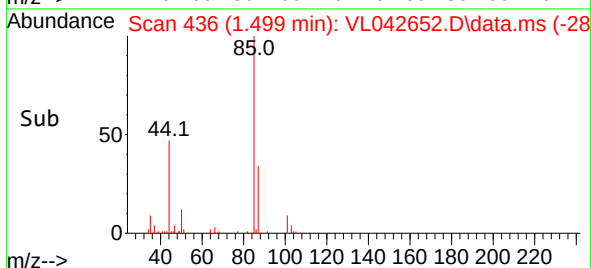
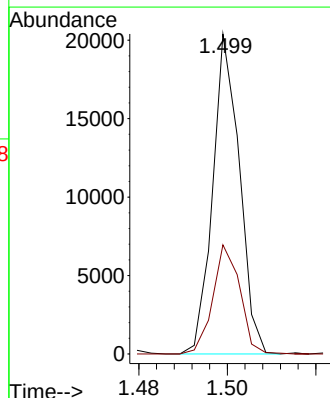
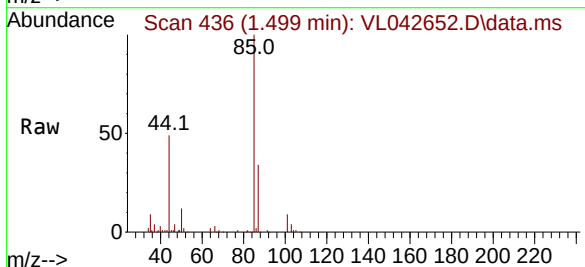
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

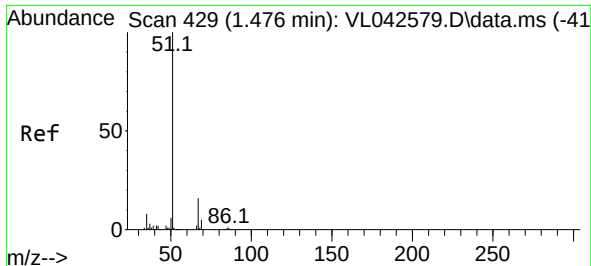
Tgt Ion: 49 Resp: 116053
Ion Ratio Lower Upper
49 100
128 45.6 24.2 72.6
130 57.2 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 0.600 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 85 Resp: 8554
Ion Ratio Lower Upper
85 100
87 34.1 26.6 39.8

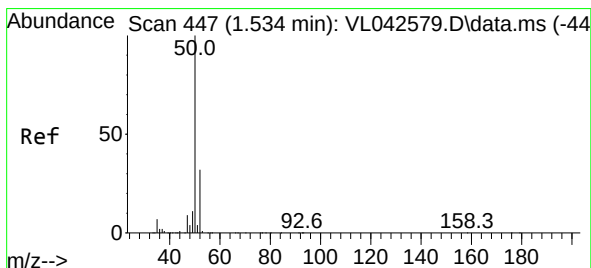
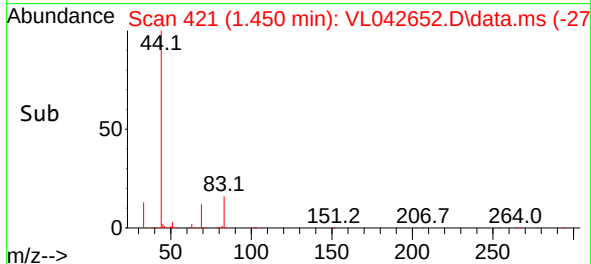
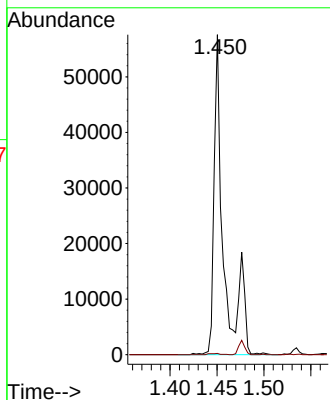
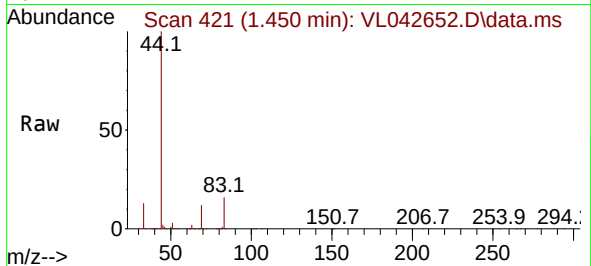




#3
Chlorodifluoromethane
Concen: 2.063 ppbv
RT: 1.450 min Scan# 41
Delta R.T. -0.026 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

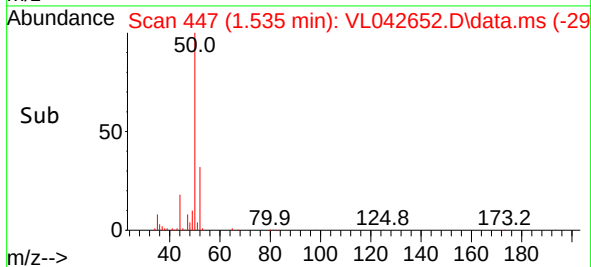
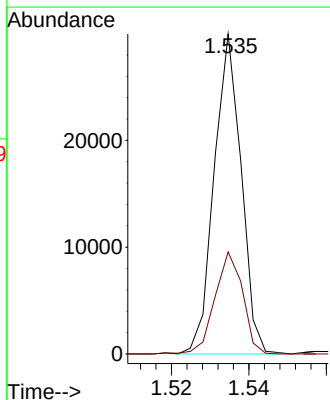
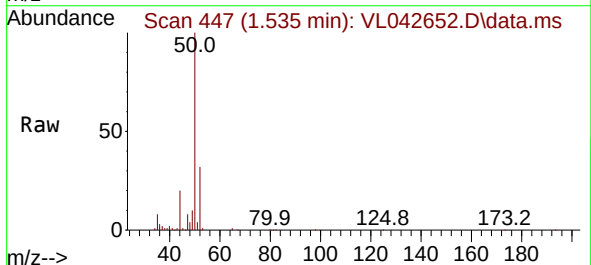
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

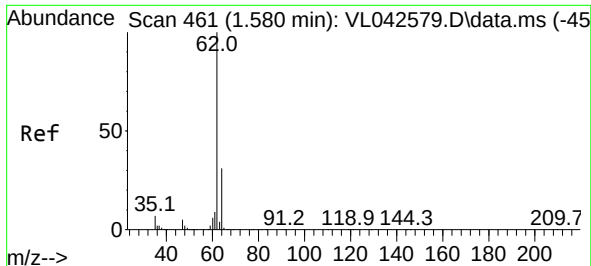
Tgt Ion: 51 Resp: 40521
Ion Ratio Lower Upper
51 100
67 3.3 13.4 20.2#



#4
Chloromethane
Concen: 2.575 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 50 Resp: 14543
Ion Ratio Lower Upper
50 100
52 31.7 25.8 38.6

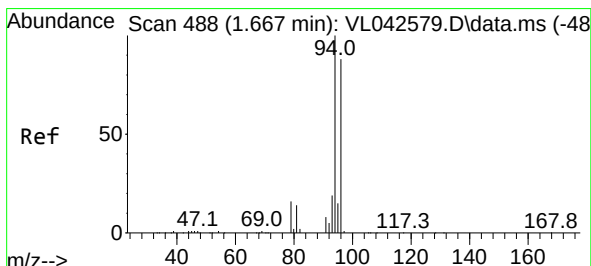
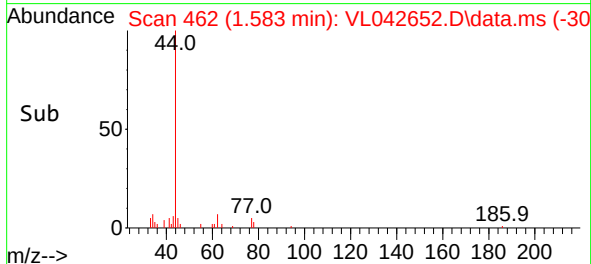
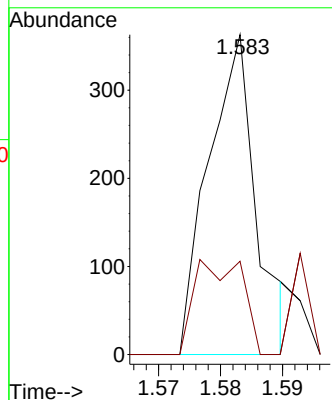
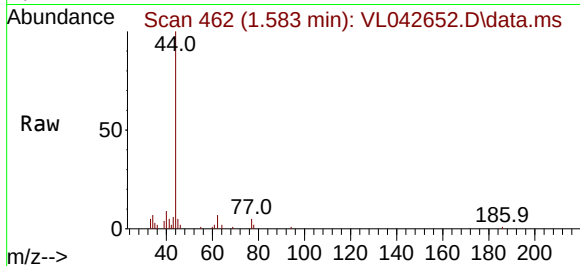




#5
 Vinyl Chloride
 Concen: 0.034 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.003 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

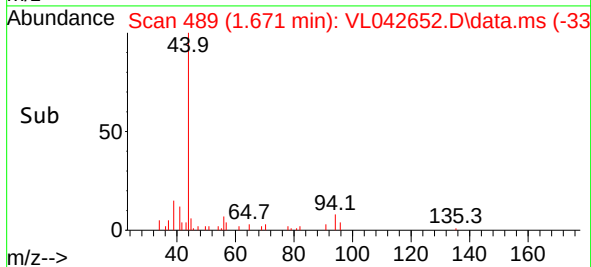
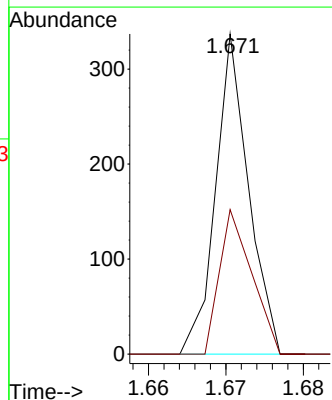
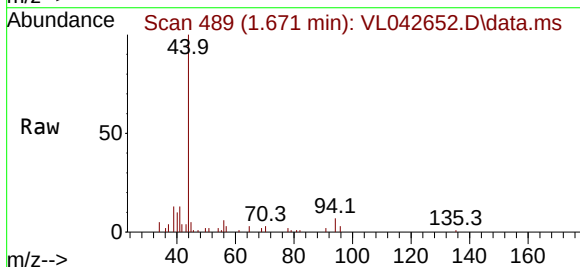
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP

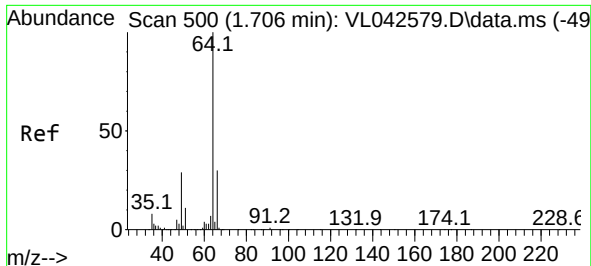
Tgt Ion: 62 Resp: 194
 Ion Ratio Lower Upper
 62 100
 64 29.2 24.9 37.3



#6
 Bromomethane
 Concen: 0.036 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

Tgt Ion: 94 Resp: 100
 Ion Ratio Lower Upper
 94 100
 96 45.1 70.7 106.1#

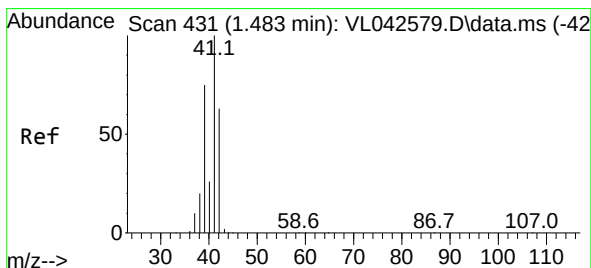
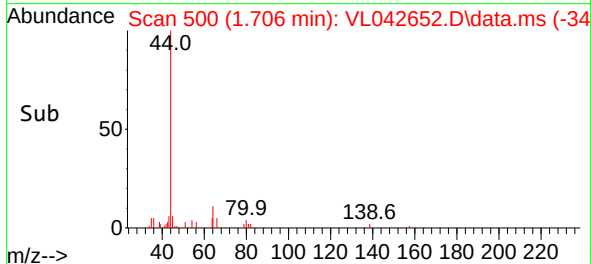
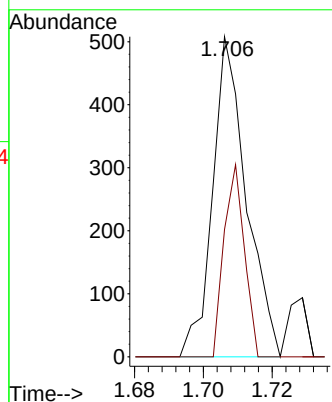
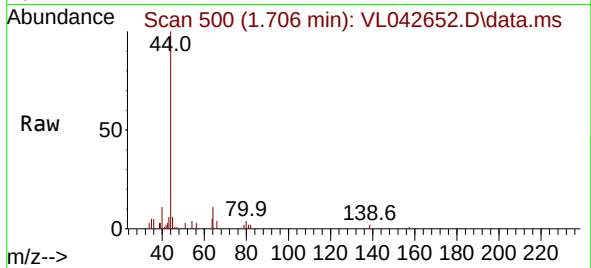




#7
Chloroethane
Concen: 0.155 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

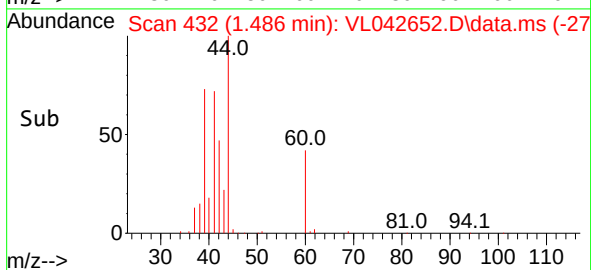
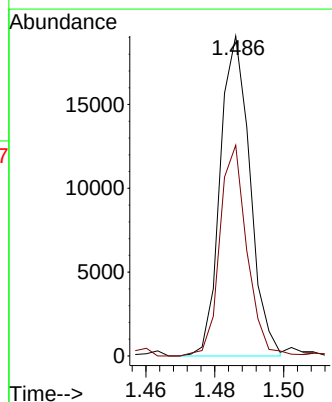
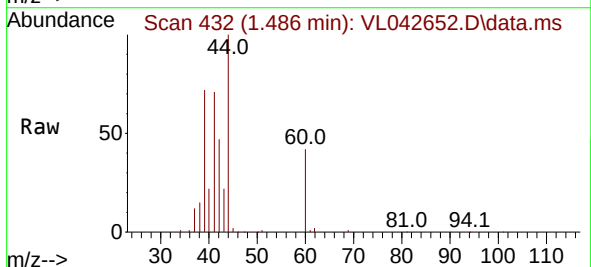
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

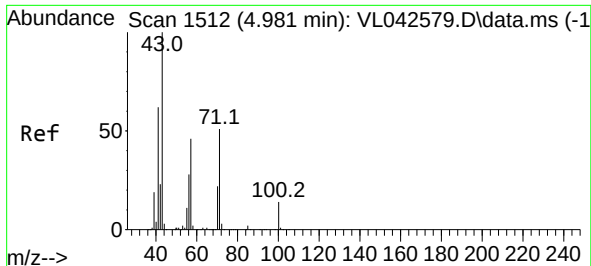
Tgt Ion: 64 Resp: 346
Ion Ratio Lower Upper
64 100
66 39.8 24.3 36.5#



#9
Propene
Concen: 1.448 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 41 Resp: 11455
Ion Ratio Lower Upper
41 100
42 62.4 53.3 79.9

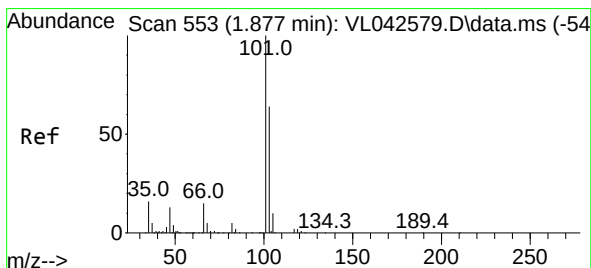
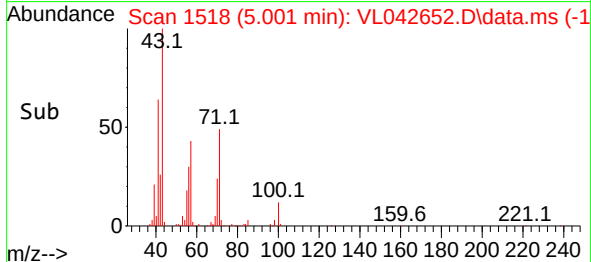
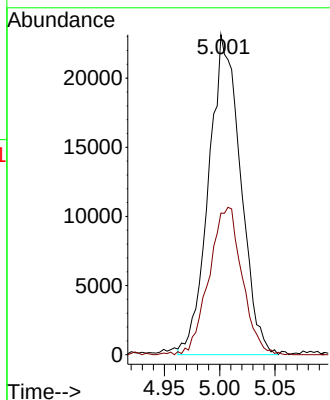
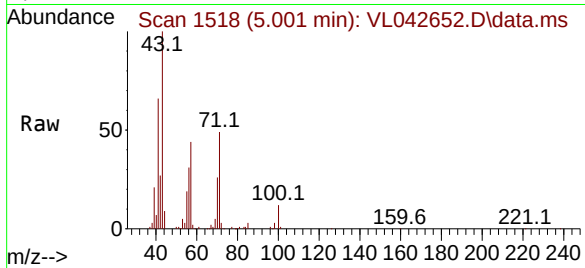




#10
Heptane
Concen: 2.080 ppbv
RT: 5.001 min Scan# 11
Delta R.T. 0.020 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

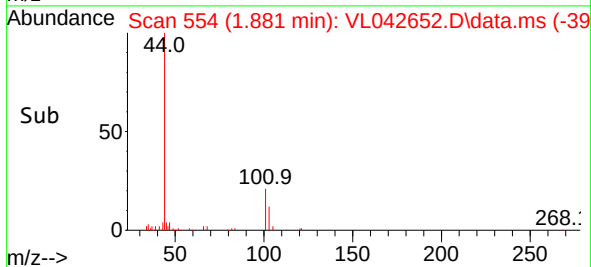
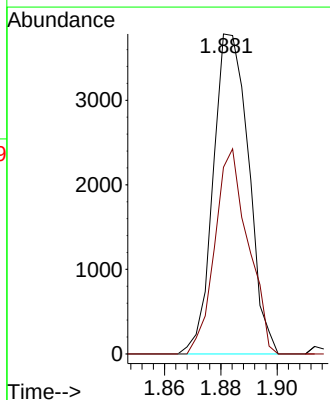
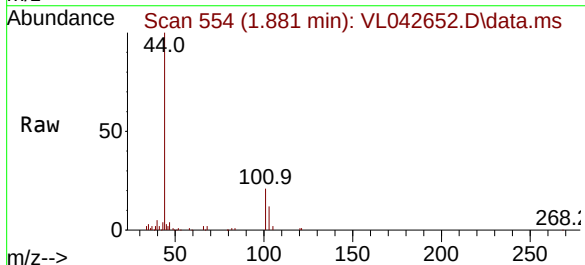
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

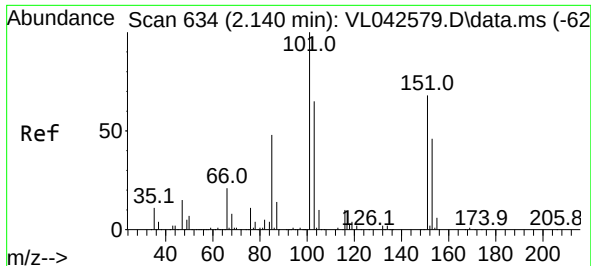
Tgt Ion: 43 Resp: 46385
Ion Ratio Lower Upper
43 100
57 47.8 38.9 58.3



#11
Trichlorofluoromethane
Concen: 0.249 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.003 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion:101 Resp: 3301
Ion Ratio Lower Upper
101 100
103 58.3 51.5 77.3

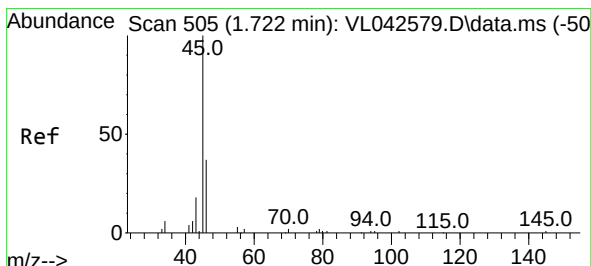
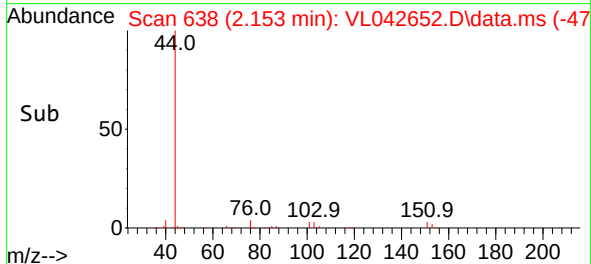
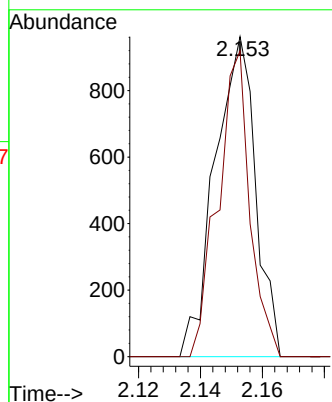
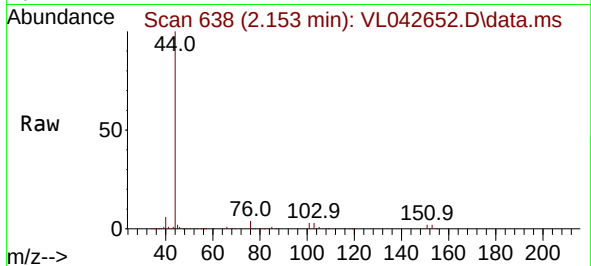




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.084 ppbv
 RT: 2.153 min Scan# 61
 Delta R.T. 0.013 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

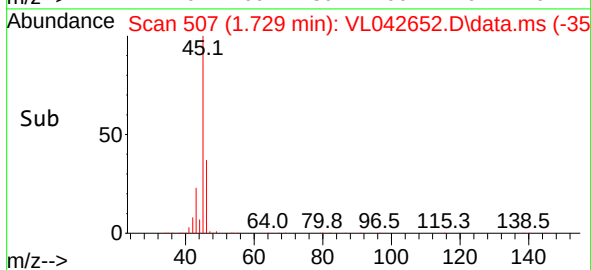
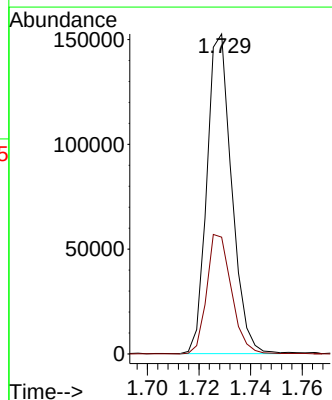
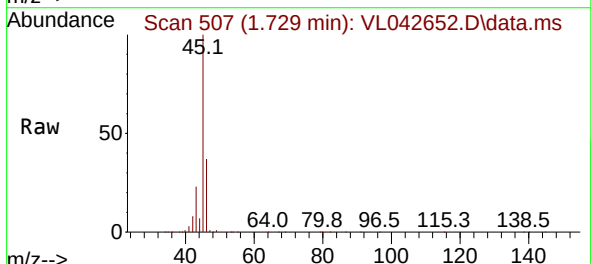
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP

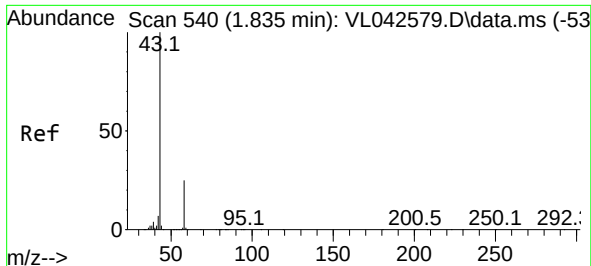
Tgt Ion:101 Resp: 875
 Ion Ratio Lower Upper
 101 100
 151 75.3 55.3 82.9



#13
 Ethanol
 Concen: 107.902 ppbv
 RT: 1.729 min Scan# 507
 Delta R.T. 0.007 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

Tgt Ion: 45 Resp: 101728
 Ion Ratio Lower Upper
 45 100
 46 37.5 14.5 58.1

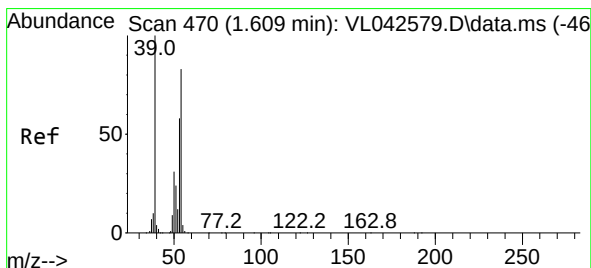
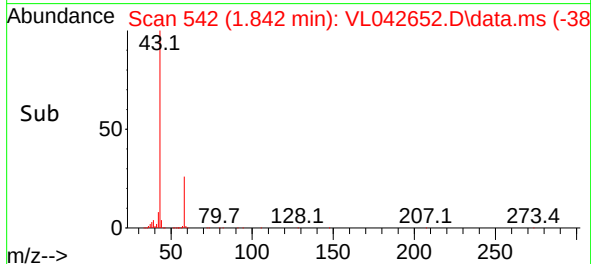
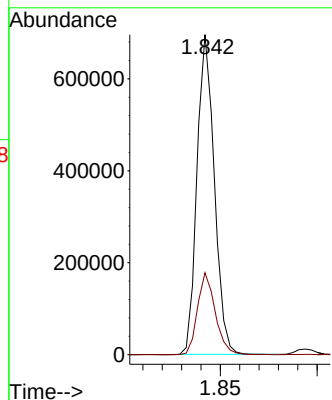
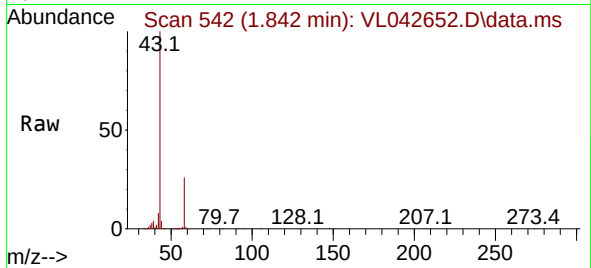




#15
Acetone
Concen: 30.993 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

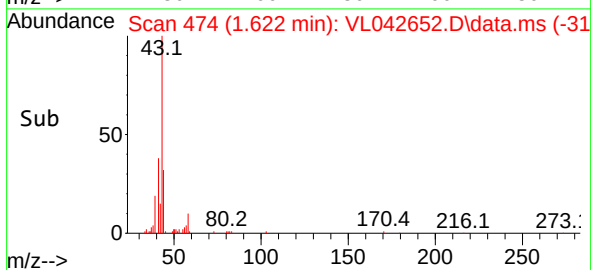
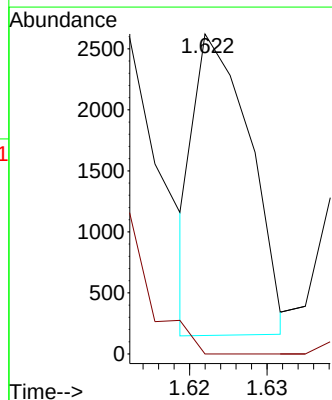
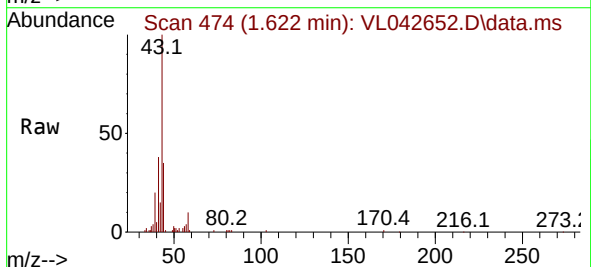
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

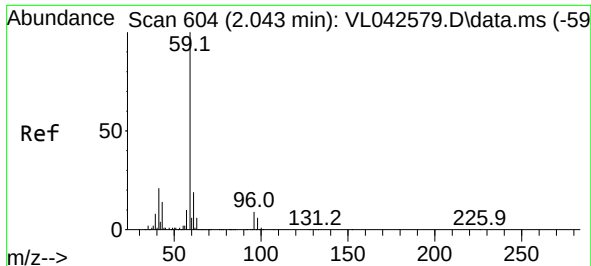
Tgt Ion: 43 Resp: 433249
Ion Ratio Lower Upper
43 100
58 26.3 21.0 31.4



#16
1,3-Butadiene
Concen: 0.184 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.013 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 39 Resp: 1219
Ion Ratio Lower Upper
39 100
54 0.0 57.9 86.9#





#17

tert-Butyl alcohol

Concen: 0.946 ppbv

RT: 2.049 min Scan# 604

Delta R.T. 0.007 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

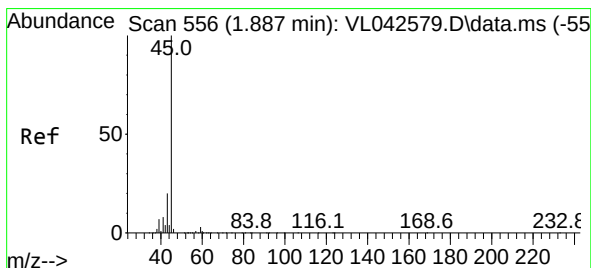
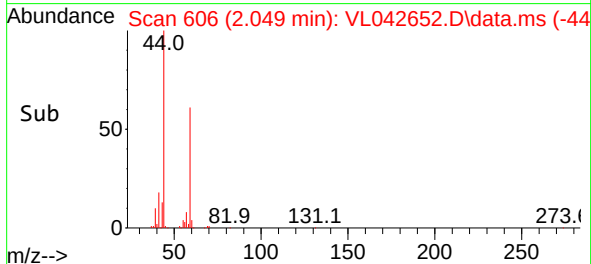
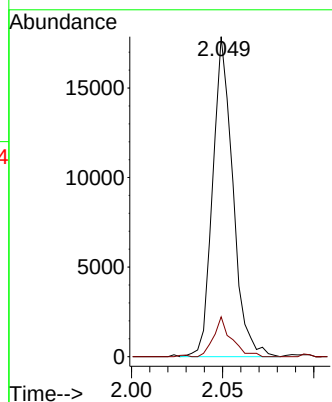
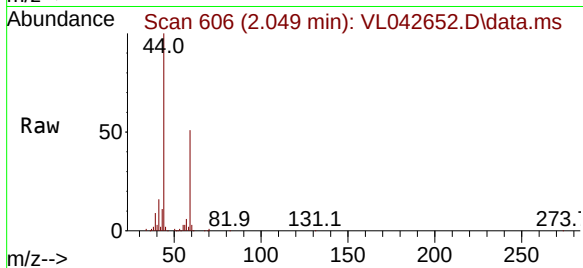
SS-1DUP

Tgt Ion: 59 Resp: 13782

Ion Ratio Lower Upper

59 100

57 11.1 8.6 12.8



#19

Isopropyl Alcohol

Concen: 4.001 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.007 min

Lab File: VL042652.D

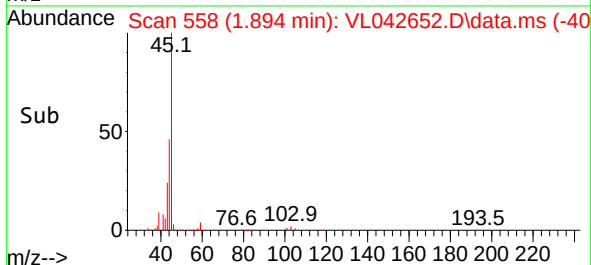
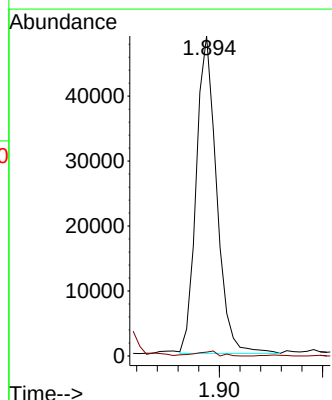
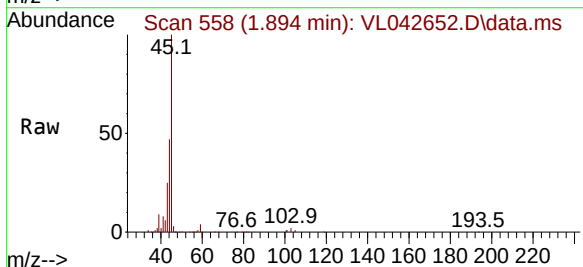
Acq: 19 Jun 2025 12:34

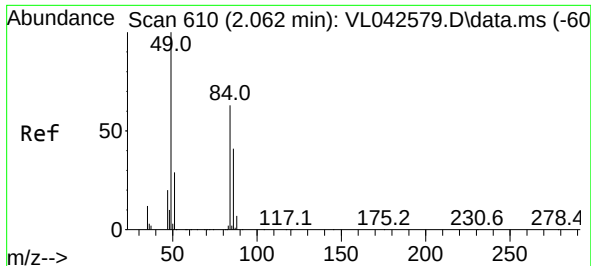
Tgt Ion: 45 Resp: 33433

Ion Ratio Lower Upper

45 100

58 340.6 29.4 44.2#





#20

Methylene Chloride

Concen: 3.637 ppbv

RT: 2.072 min Scan# 610

Delta R.T. 0.010 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

SS-1DUP

Tgt Ion: 84 Resp: 16777

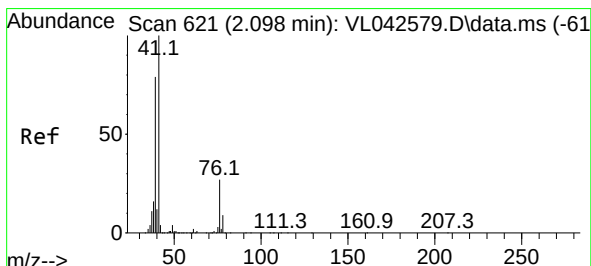
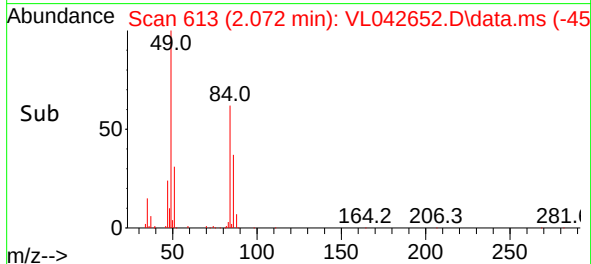
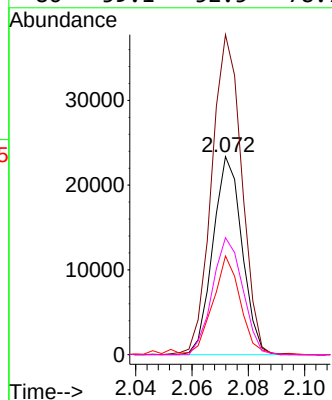
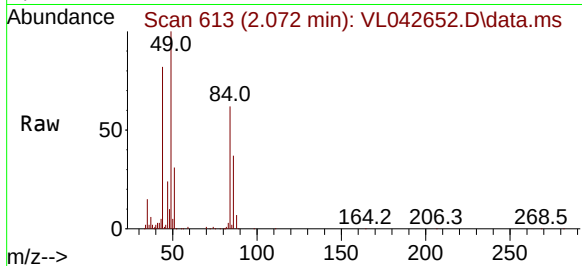
Ion Ratio Lower Upper

84 100

49 161.1 128.8 193.2

51 49.8 38.6 57.8

86 59.1 52.5 78.7



#21

Allyl Chloride

Concen: 0.441 ppbv

RT: 2.049 min Scan# 606

Delta R.T. -0.048 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

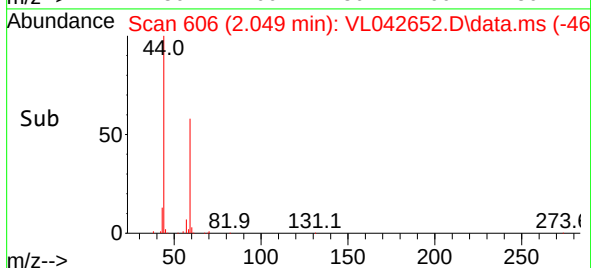
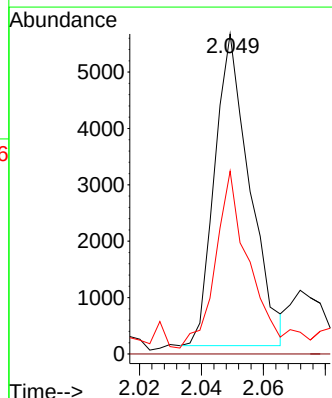
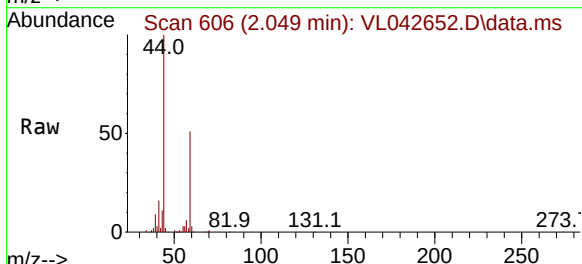
Tgt Ion: 41 Resp: 4350

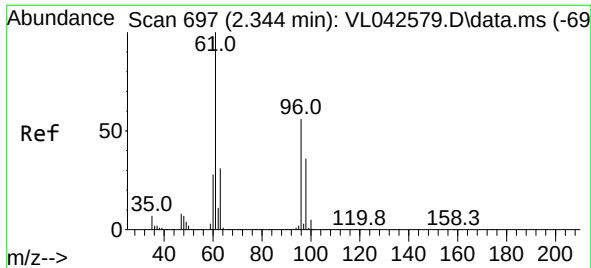
Ion Ratio Lower Upper

41 100

76 0.0 21.2 31.8

39 82.6 60.9 91.3

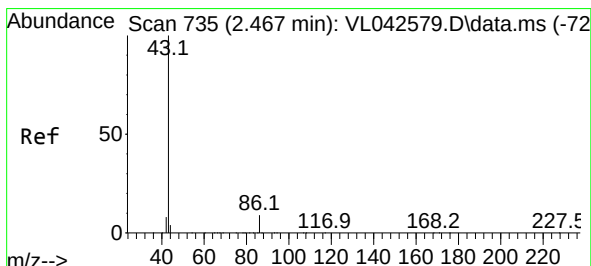
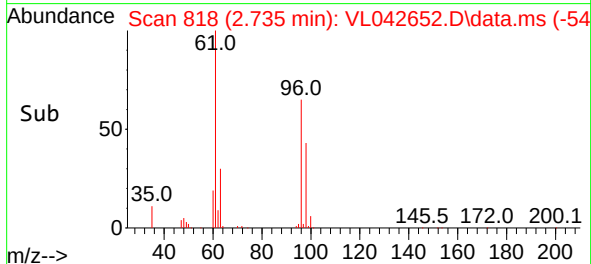
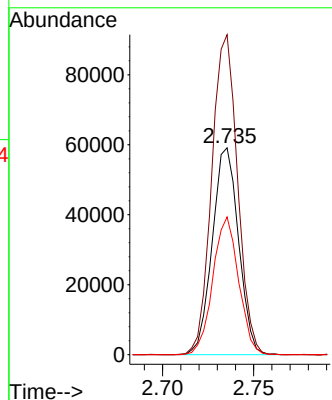
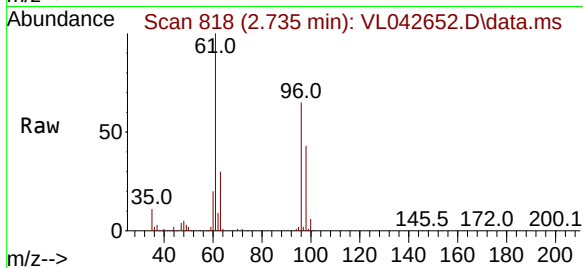




#22
trans-1,2-Dichloroethene
Concen: 10.994 ppbv
RT: 2.735 min Scan# 81
Delta R.T. 0.392 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

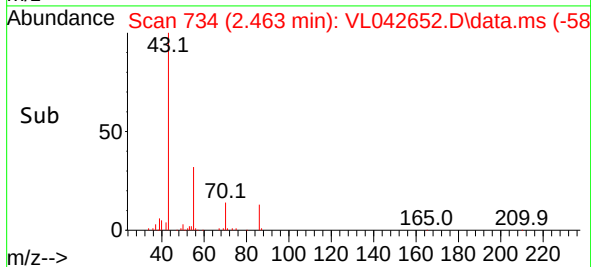
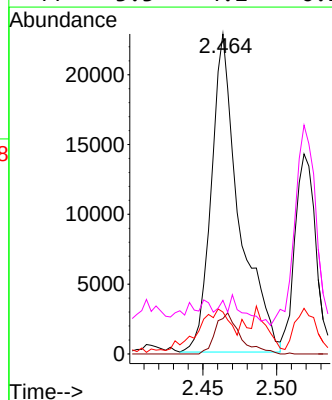
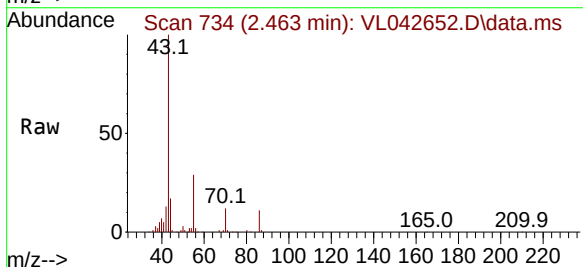
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

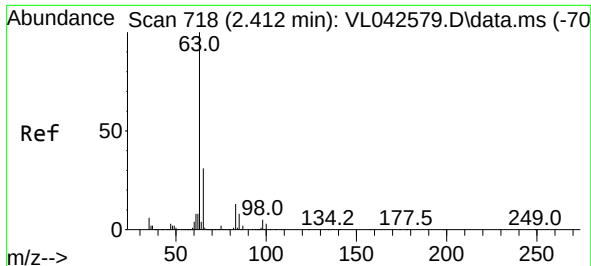
Tgt Ion: 96 Resp: 59319
Ion Ratio Lower Upper
96 100
61 154.6 142.6 214.0
98 66.6 51.0 76.4



#23
Vinyl Acetate
Concen: 1.591 ppbv
RT: 2.463 min Scan# 734
Delta R.T. -0.003 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 43 Resp: 30066
Ion Ratio Lower Upper
43 100
86 11.1 6.6 9.8#
42 11.4 7.0 10.4#
44 3.3 4.2 6.2#

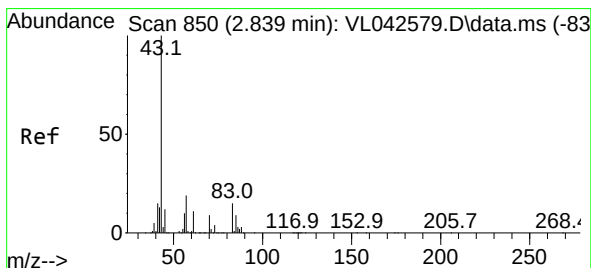
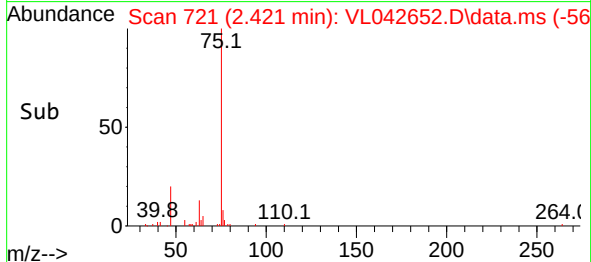
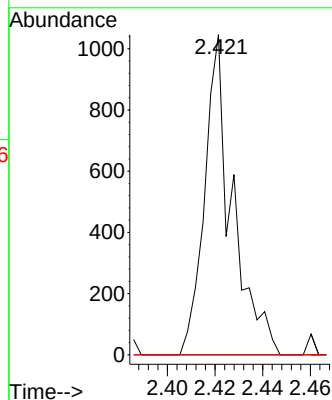
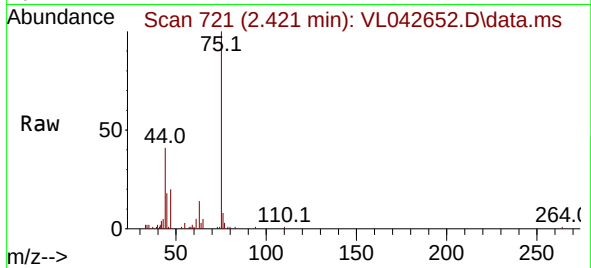




#24
 1,1-Dichloroethane
 Concen: 0.076 ppbv
 RT: 2.421 min Scan# 718
 Delta R.T. 0.010 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

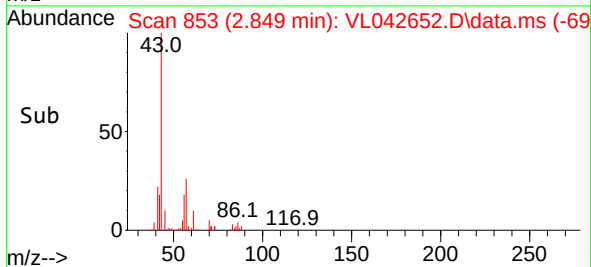
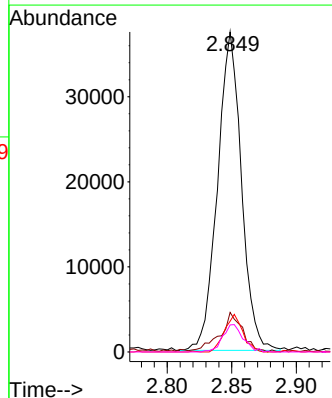
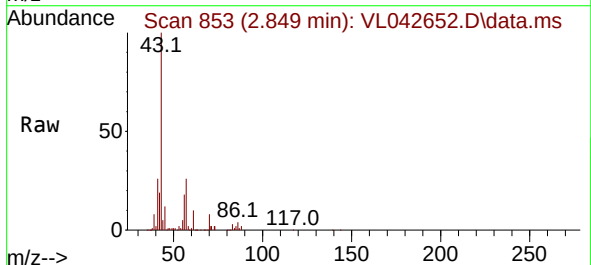
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP

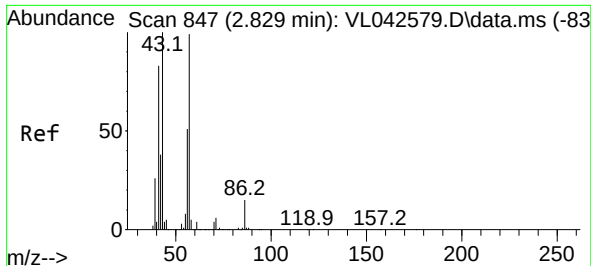
Tgt Ion: 63 Resp: 843
 Ion Ratio Lower Upper
 63 100
 98 0.0 2.4 7.1#
 100 0.0 1.4 4.0#



#25
 Ethyl Acetate
 Concen: 1.257 ppbv
 RT: 2.849 min Scan# 853
 Delta R.T. 0.010 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

Tgt Ion: 43 Resp: 48078
 Ion Ratio Lower Upper
 43 100
 45 13.0 8.2 12.2#
 61 9.1 7.1 10.7
 70 7.4 6.4 9.6

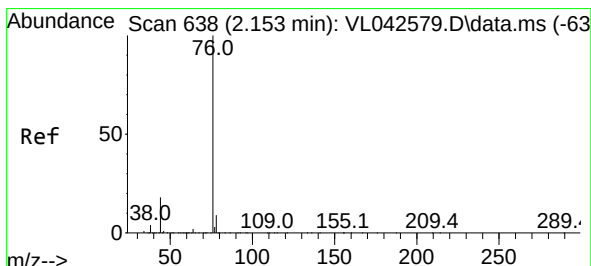
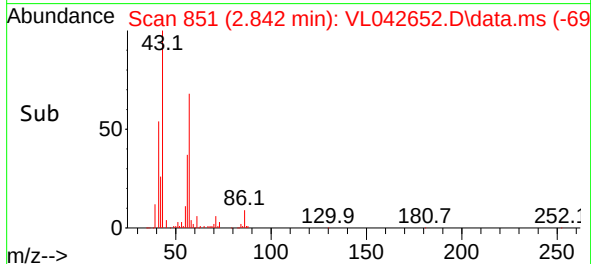
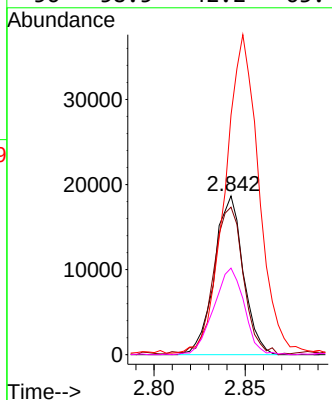
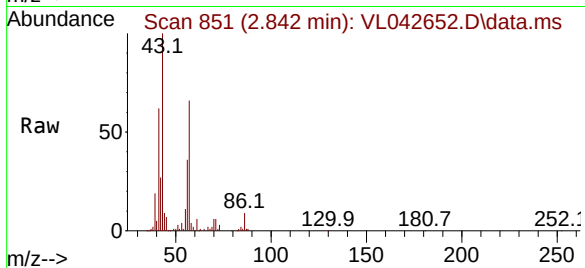




#26
Hexane
Concen: 1.183 ppbv
RT: 2.842 min Scan# 847
Delta R.T. 0.013 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

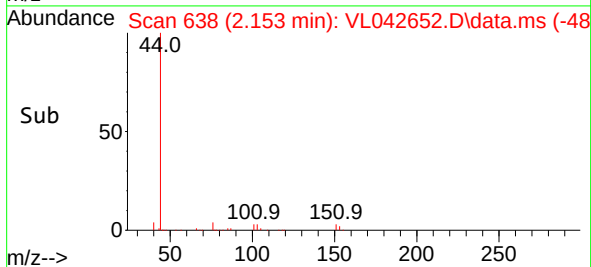
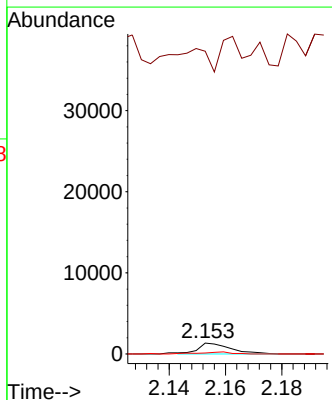
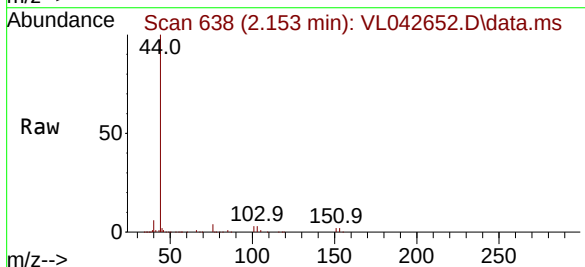
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

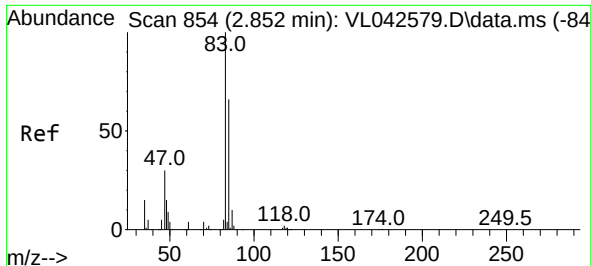
Tgt Ion: 57 Resp: 20557
Ion Ratio Lower Upper
57 100
41 97.3 70.6 106.0
43 240.7 181.1 271.7
56 58.5 42.2 63.4



#27
Carbon Disulfide
Concen: 0.079 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.000 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 76 Resp: 1060
Ion Ratio Lower Upper
76 100
44 0.0 21.3 31.9#
78 18.2 9.4 14.0#





#29

Chloroform

Concen: 0.277 ppbv

RT: 2.862 min Scan# 81

Delta R.T. 0.010 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

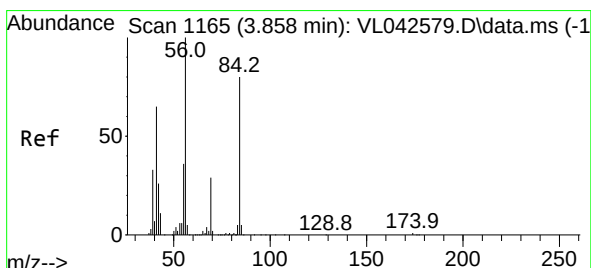
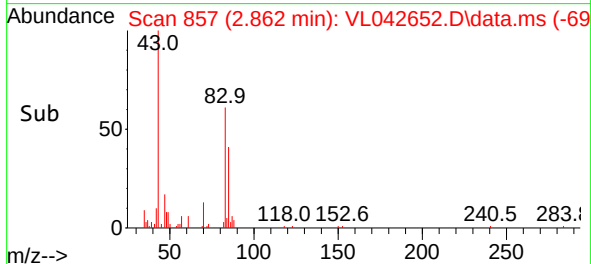
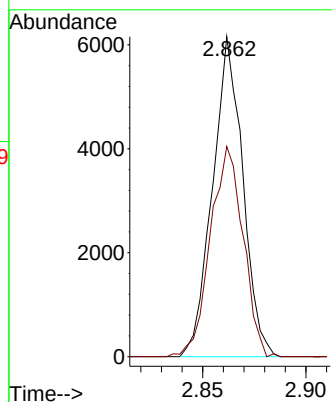
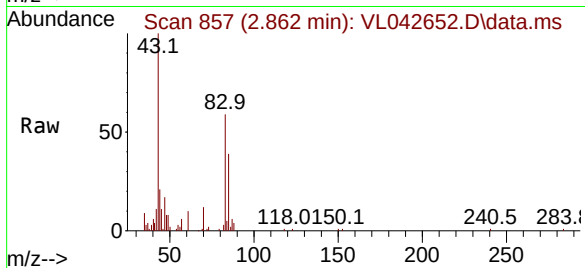
SS-1DUP

Tgt Ion: 83 Resp: 6269

Ion Ratio Lower Upper

83 100

85 65.7 52.8 79.2



#30

Cyclohexane

Concen: 0.040 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.010 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

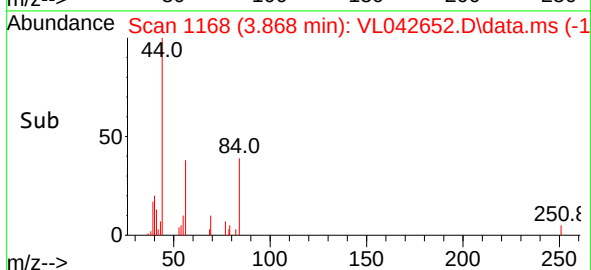
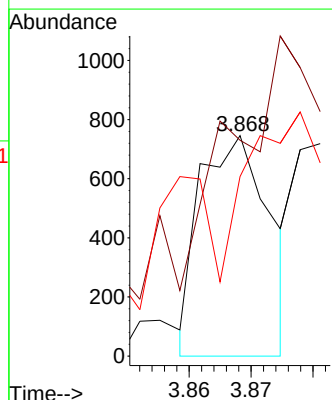
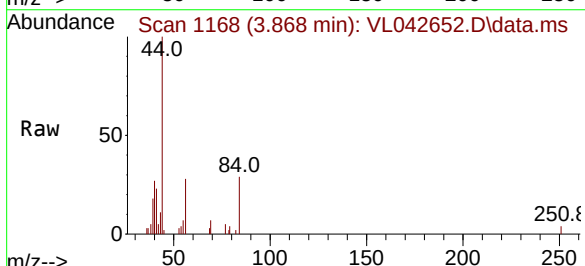
Tgt Ion: 84 Resp: 582

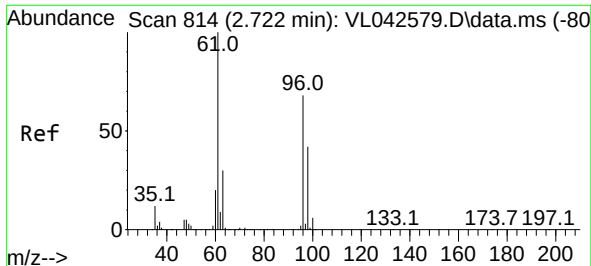
Ion Ratio Lower Upper

84 100

56 0.0 103.7 155.5#

41 0.0 65.1 97.7#

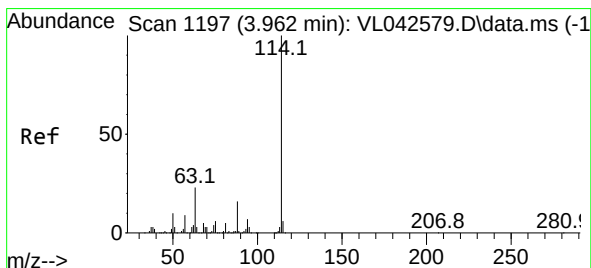
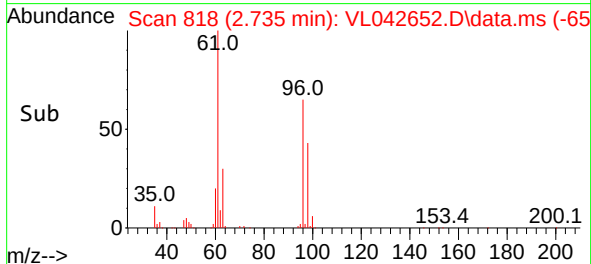
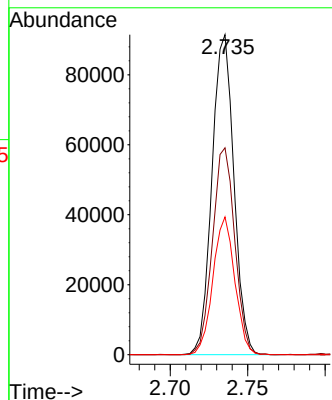
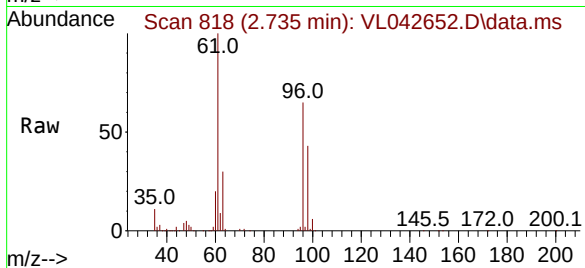




#31
 cis-1,2-Dichloroethene
 Concen: 5.663 ppbv
 RT: 2.735 min Scan# 814
 Delta R.T. 0.013 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

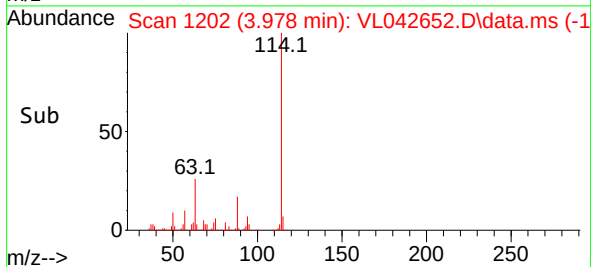
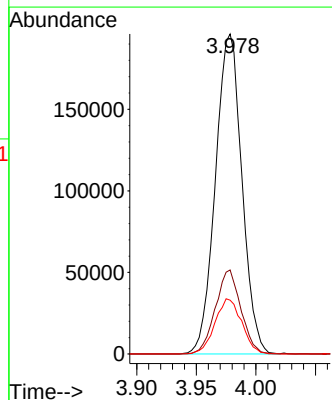
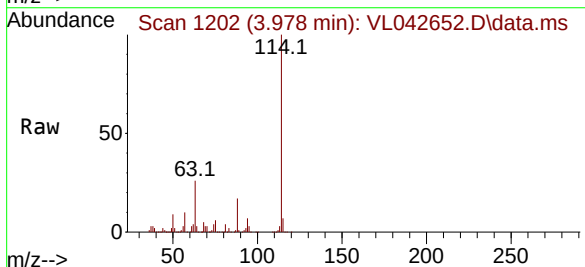
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP

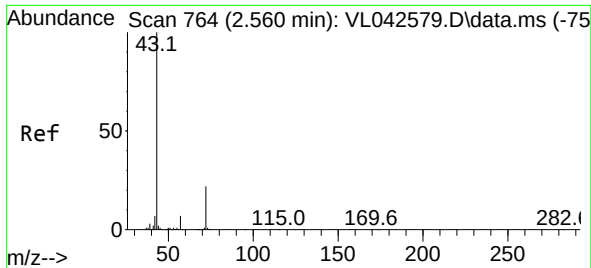
Tgt Ion: 61 Resp: 90052
 Ion Ratio Lower Upper
 61 100
 96 64.6 54.5 81.7
 98 43.1 33.4 50.2



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.978 min Scan# 1202
 Delta R.T. 0.016 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

Tgt Ion: 114 Resp: 302999
 Ion Ratio Lower Upper
 114 100
 63 25.3 19.0 28.6
 88 17.4 13.6 20.4

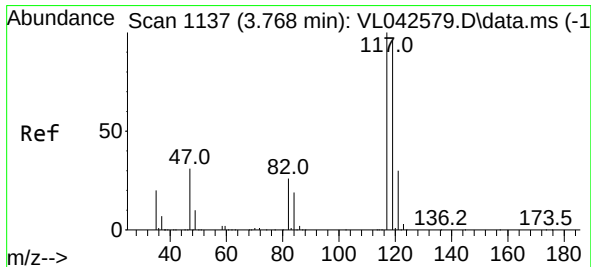
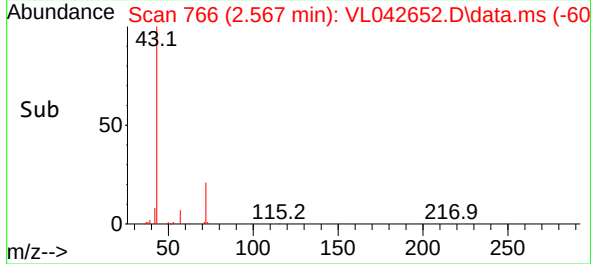
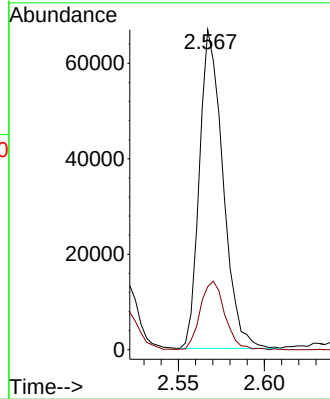
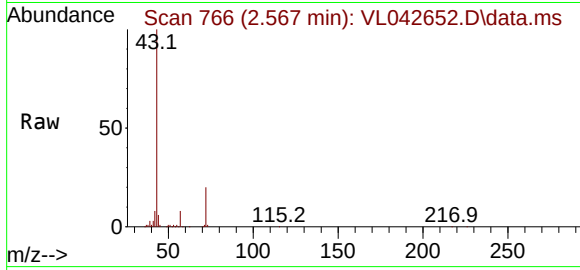




#34
2-Butanone
Concen: 2.943 ppbv
RT: 2.567 min Scan# 71
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

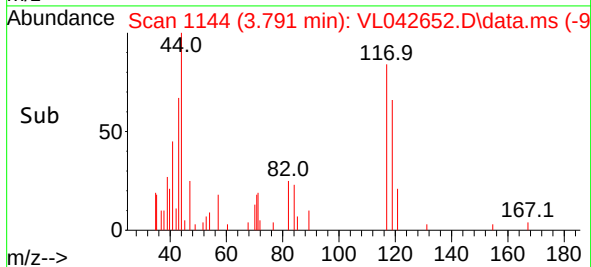
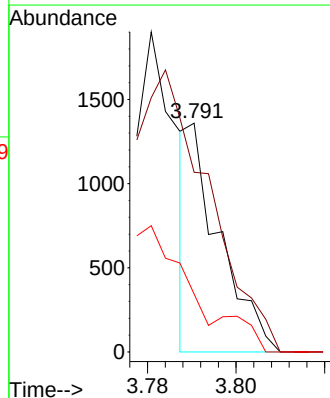
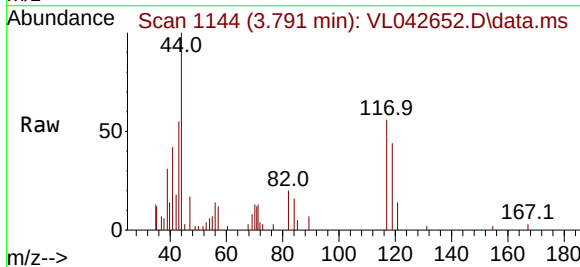
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

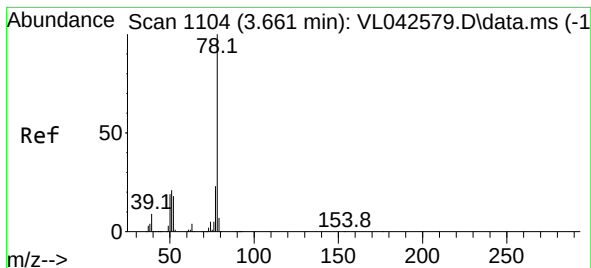
Tgt Ion: 43 Resp: 63602
Ion Ratio Lower Upper
43 100
72 22.5 17.7 26.5



#35
Carbon Tetrachloride
Concen: 0.034 ppbv
RT: 3.791 min Scan# 1144
Delta R.T. 0.023 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 117 Resp: 677
Ion Ratio Lower Upper
117 100
119 78.5 76.8 115.2
121 25.3 24.3 36.5





#36

Benzene

Concen: 0.584 ppbv

RT: 3.674 min Scan# 1108

Delta R.T. 0.013 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

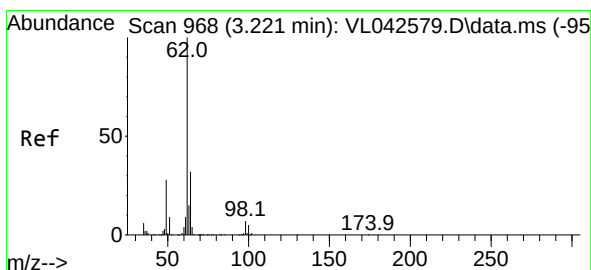
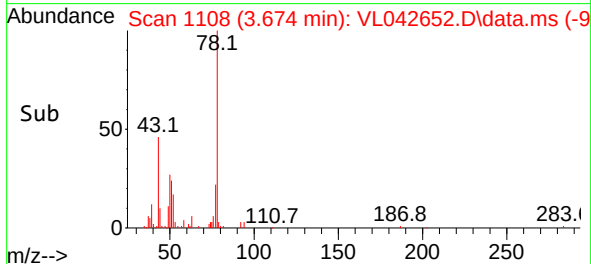
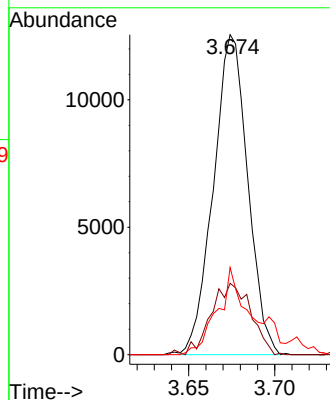
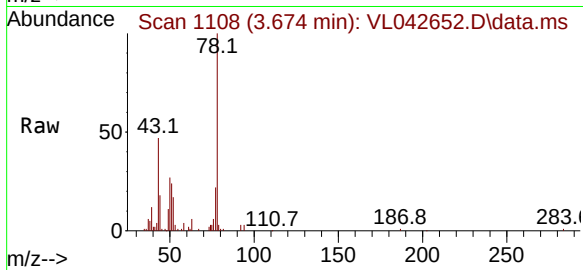
MSVOA_L

ClientSampleId :

SS-1DUP

Tgt Ion: 78 Resp: 17420

Ion	Ratio	Lower	Upper
78	100		
77	21.9	18.2	27.2
50	27.2	15.2	22.8



#37

1,2-Dichloroethane

Concen: 0.040 ppbv

RT: 3.234 min Scan# 972

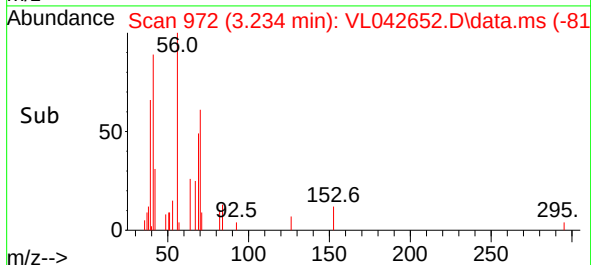
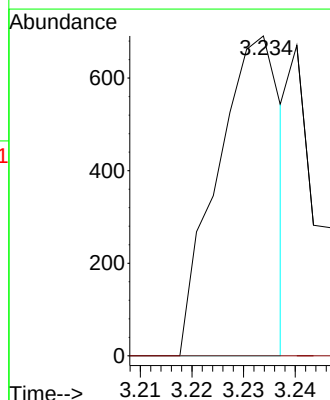
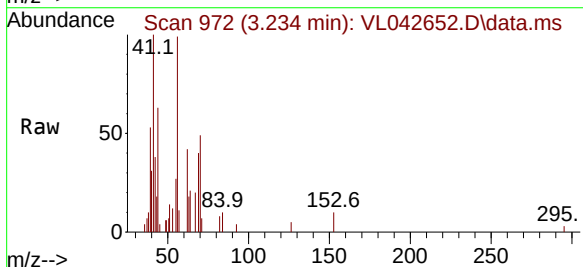
Delta R.T. 0.013 min

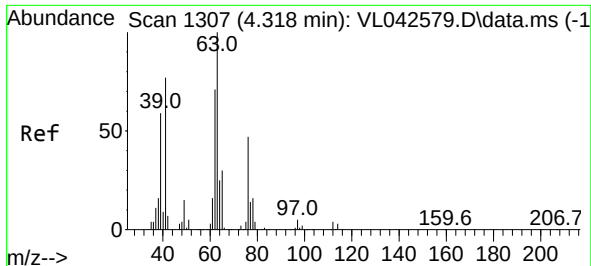
Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Tgt Ion: 62 Resp: 589

Ion	Ratio	Lower	Upper
62	100		
98	0.0	6.1	9.1





#39

1,2-Dichloropropane

Concen: 6.933 ppbv

RT: 3.978 min Scan# 1

Delta R.T. -0.340 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

SS-1DUP

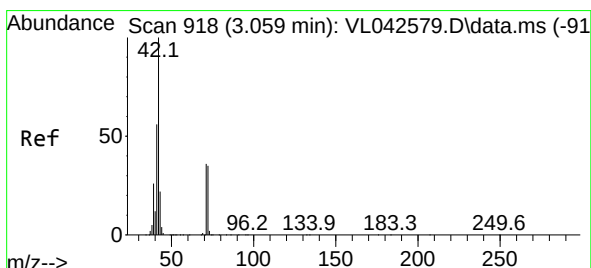
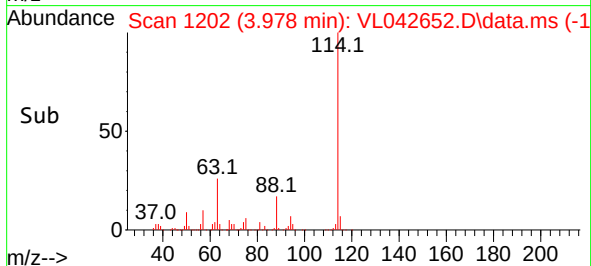
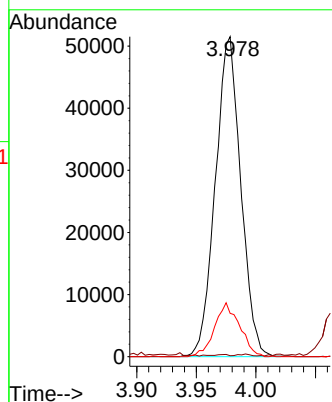
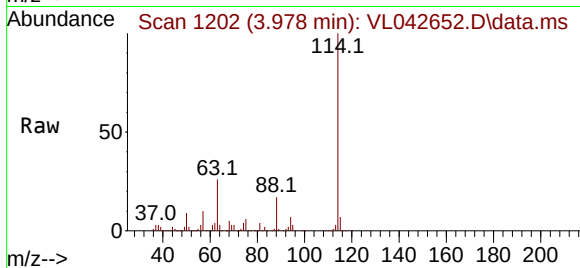
Tgt Ion: 63 Resp: 76495

Ion Ratio Lower Upper

63 100

41 0.0 61.8 92.6#

62 13.5 56.6 85.0#



#41

Tetrahydrofuran

Concen: 15.454 ppbv

RT: 3.066 min Scan# 920

Delta R.T. 0.007 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

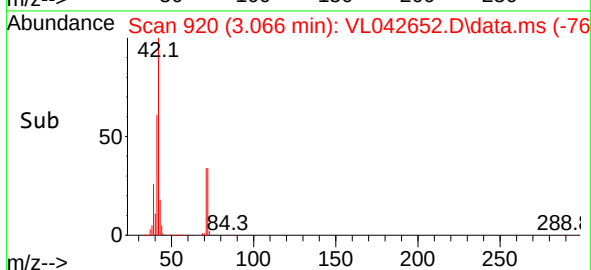
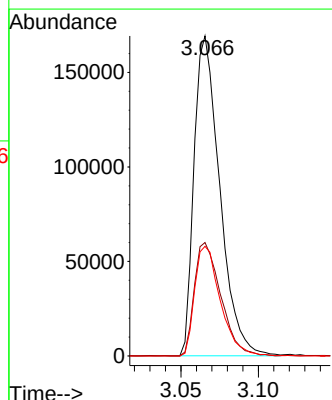
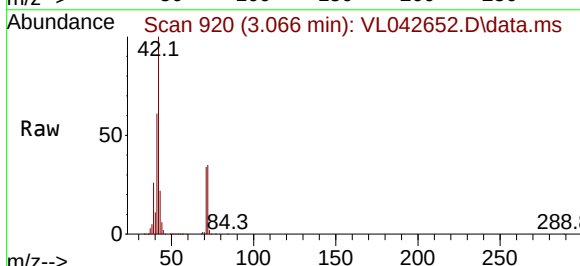
Tgt Ion: 42 Resp: 195475

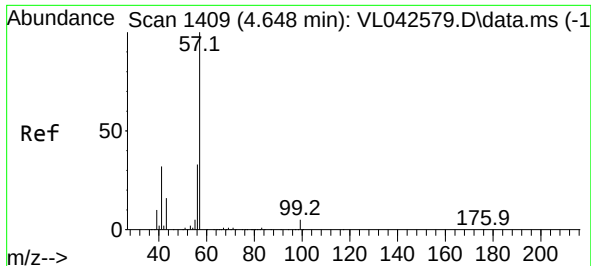
Ion Ratio Lower Upper

42 100

72 36.5 28.9 43.3

71 34.3 28.5 42.7

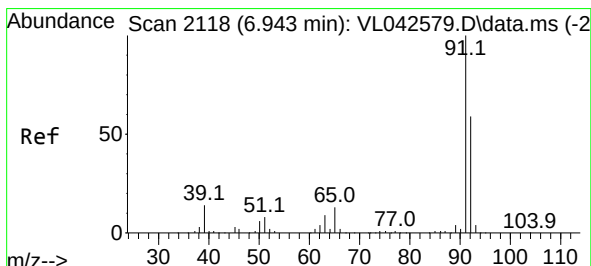
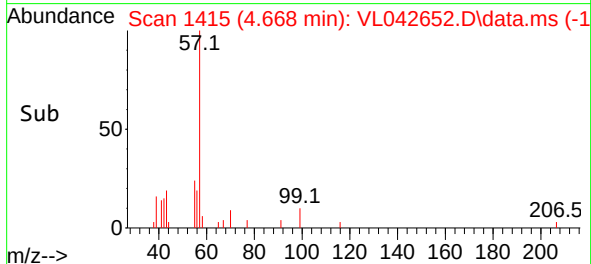
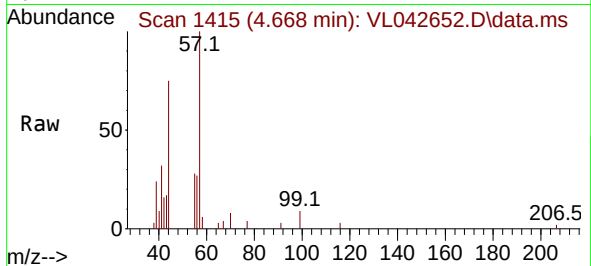




#44
 2,2,4-Trimethylpentane
 Concen: 0.037 ppbv
 RT: 4.668 min Scan# 1409
 Delta R.T. 0.020 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

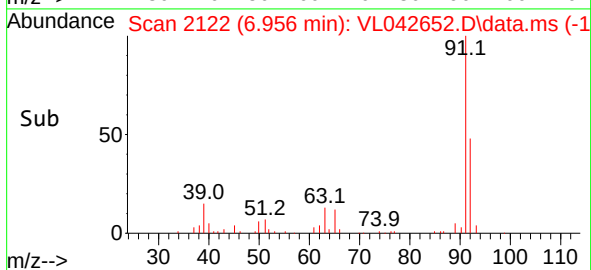
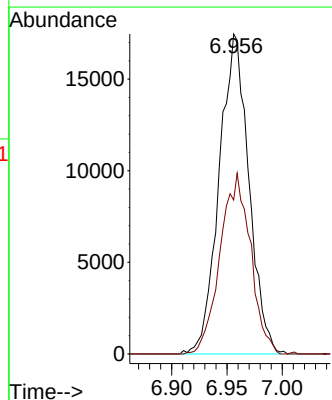
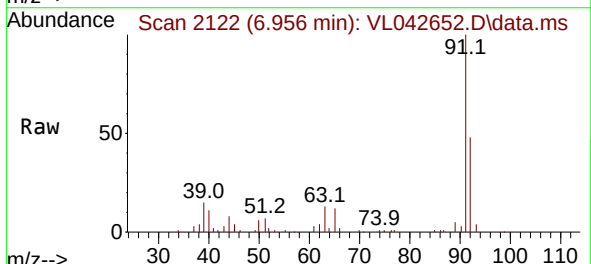
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP

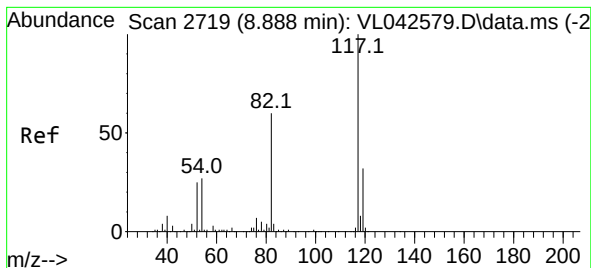
Tgt Ion: 57 Resp: 1899
 Ion Ratio Lower Upper
 57 100
 41 0.0 26.1 39.1#
 56 0.0 25.9 38.9#



#53
 Toluene
 Concen: 0.943 ppbv
 RT: 6.956 min Scan# 2122
 Delta R.T. 0.013 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

Tgt Ion: 91 Resp: 32537
 Ion Ratio Lower Upper
 91 100
 92 57.8 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_1

ClientSampleId :

SS-1DUP

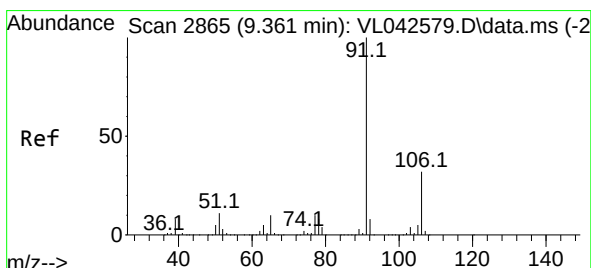
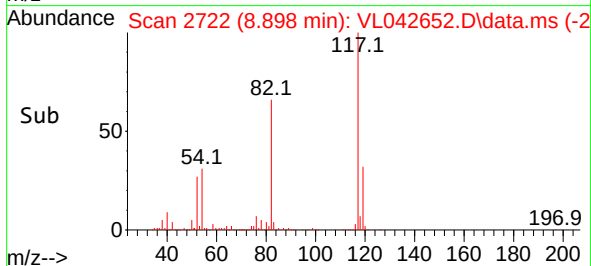
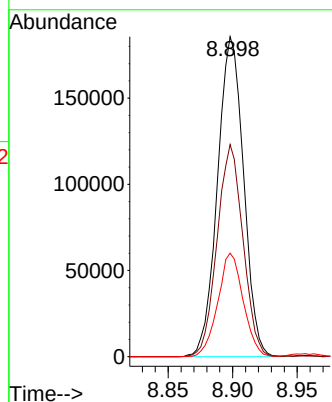
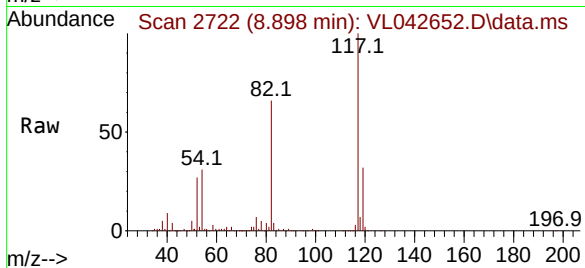
Tgt Ion:117 Resp: 260992

Ion Ratio Lower Upper

117 100

82 66.1 51.2 76.8

119 31.5 26.3 39.5



#58

Ethyl Benzene

Concen: 0.255 ppbv

RT: 9.374 min Scan# 2869

Delta R.T. 0.013 min

Lab File: VL042652.D

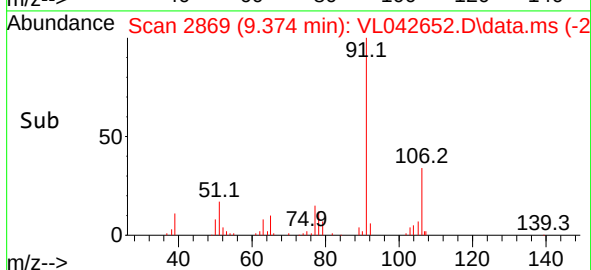
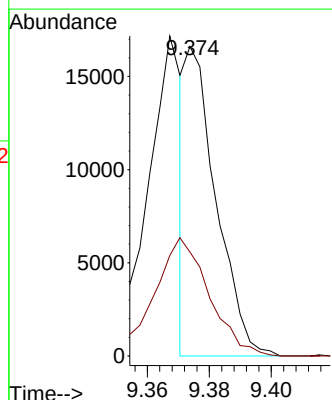
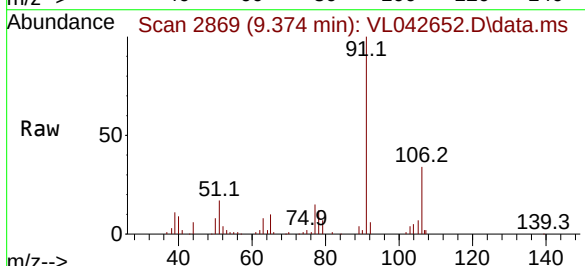
Acq: 19 Jun 2025 12:34

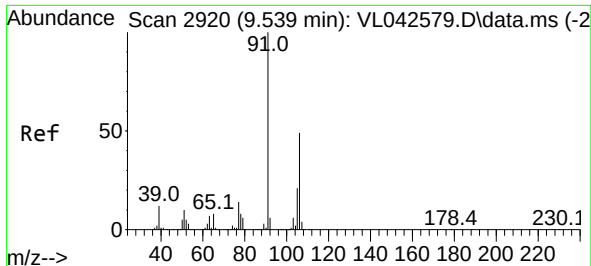
Tgt Ion: 91 Resp: 11268

Ion Ratio Lower Upper

91 100

106 33.6 25.9 38.9





#59

m/p-Xylene

Concen: 3.054 ppbv

RT: 9.545 min Scan# 2920

Delta R.T. 0.007 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

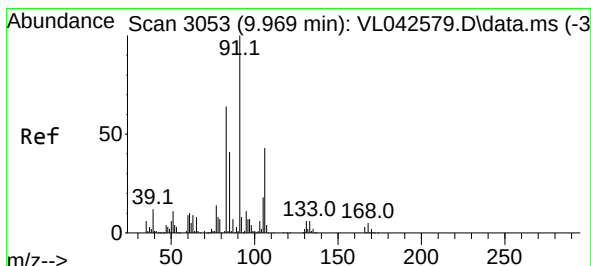
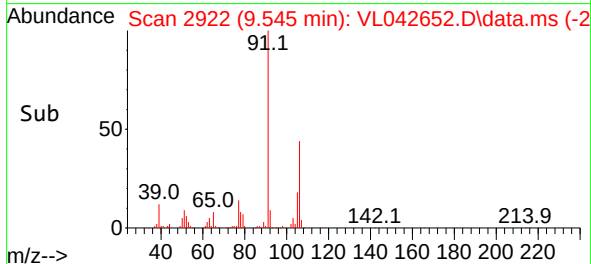
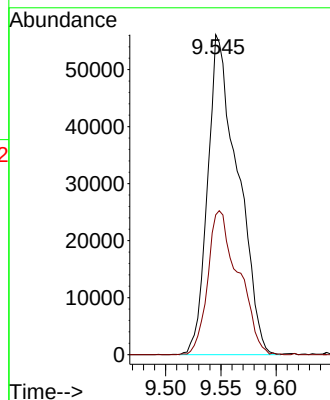
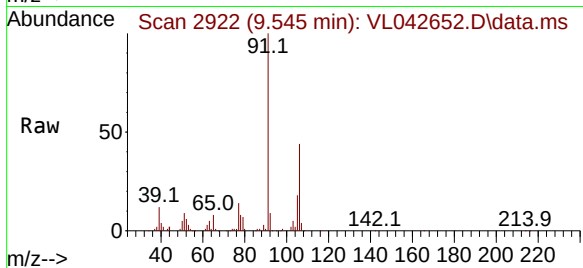
SS-1DUP

Tgt Ion: 91 Resp: 106408

Ion Ratio Lower Upper

91 100

106 45.9 38.8 58.2



#60

o-Xylene

Concen: 0.865 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. 0.010 min

Lab File: VL042652.D

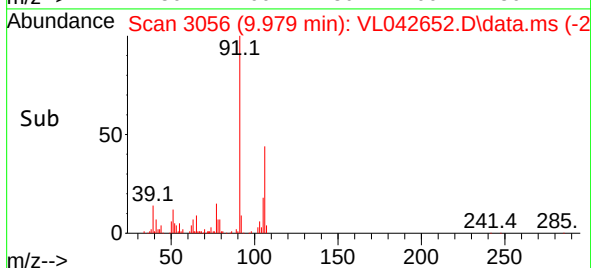
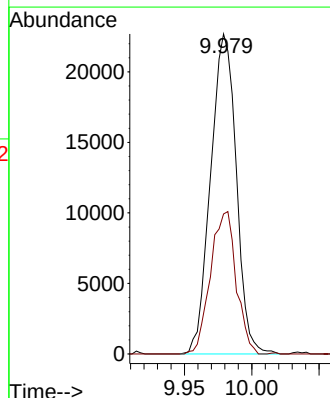
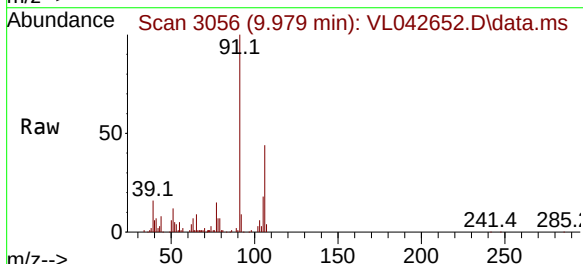
Acq: 19 Jun 2025 12:34

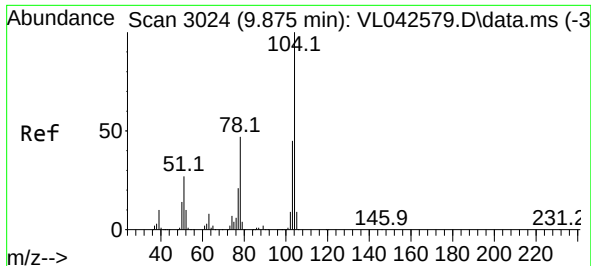
Tgt Ion: 91 Resp: 30069

Ion Ratio Lower Upper

91 100

106 44.7 22.9 68.5

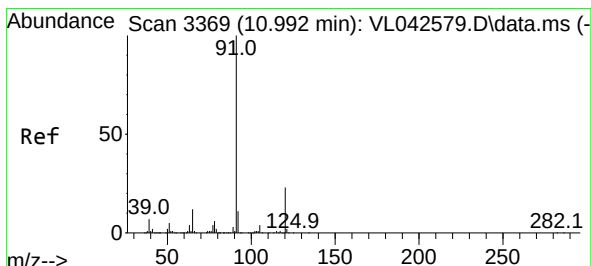
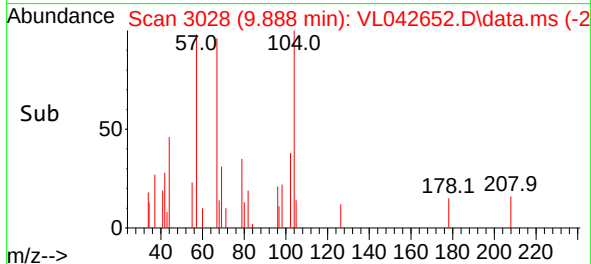
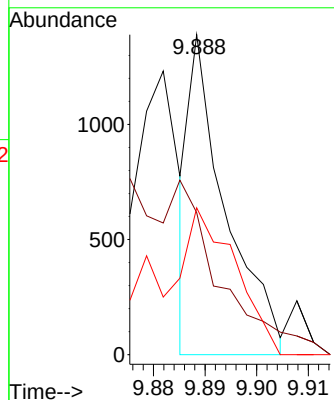
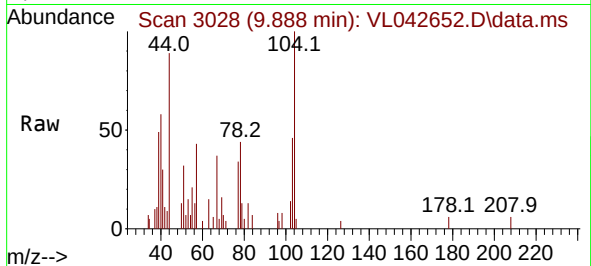




#61
Styrene
Concen: 0.041 ppbv
RT: 9.888 min Scan# 3024
Delta R.T. 0.013 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

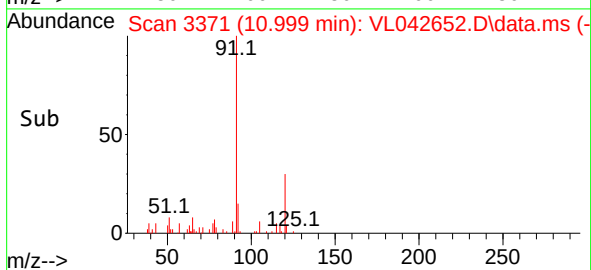
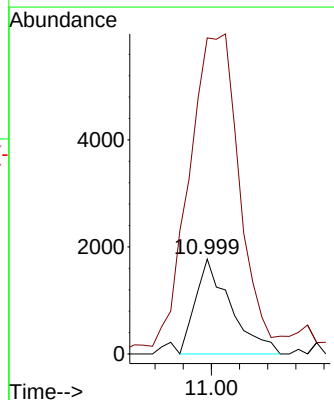
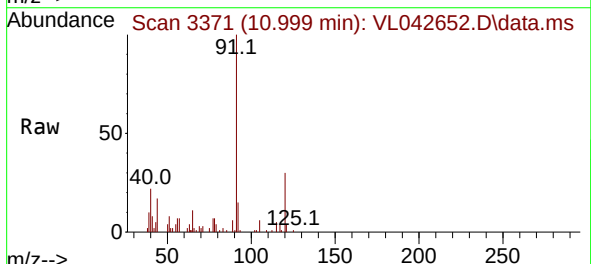
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

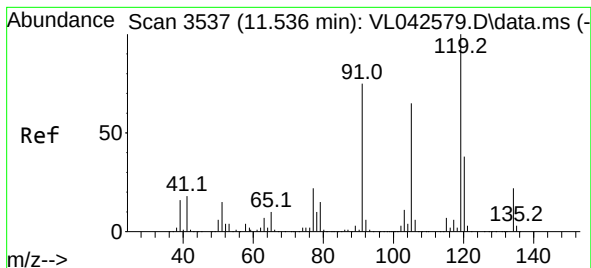
Tgt Ion:104 Resp: 679
Ion Ratio Lower Upper
104 100
78 0.0 38.2 57.4#
103 100.1 36.7 55.1#



#64
n-propylbenzene
Concen: 0.112 ppbv
RT: 10.999 min Scan# 3371
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion:120 Resp: 1547
Ion Ratio Lower Upper
120 100
91 511.4 363.0 544.6





#65

tert-Butylbenzene

Concen: 0.089 ppbv

RT: 11.546 min Scan# 3540

Delta R.T. 0.010 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

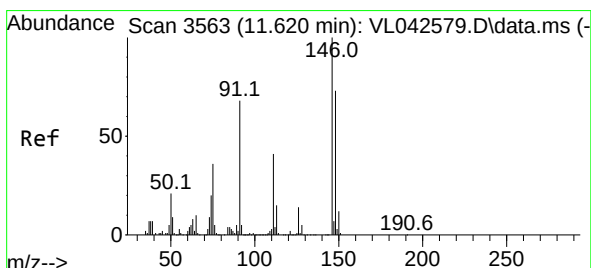
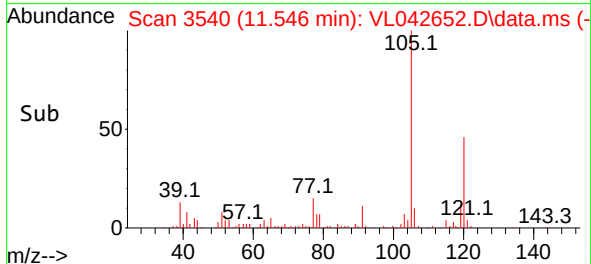
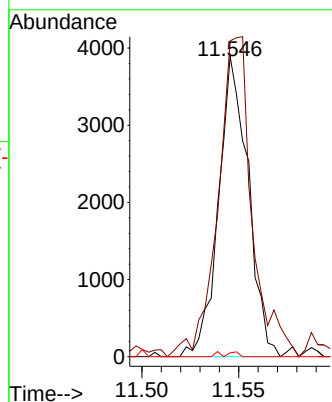
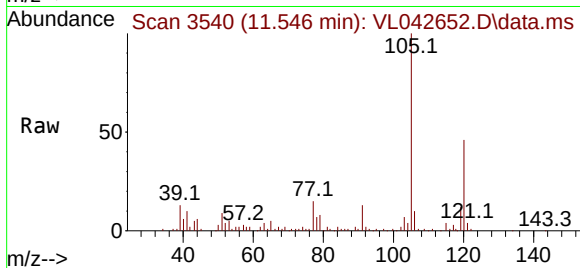
Instrument :

MSVOA_1

ClientSampleId :

SS-1DUP

Tgt Ion:	119	Resp:	4144
Ion	Ratio	Lower	Upper
119	100		
91	125.6	61.1	91.7#
134	0.0	17.4	26.2#



#66

Benzyl Chloride

Concen: 0.052 ppbv

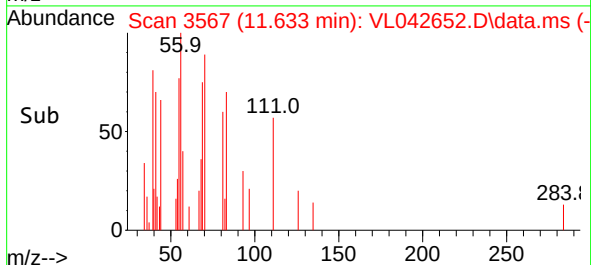
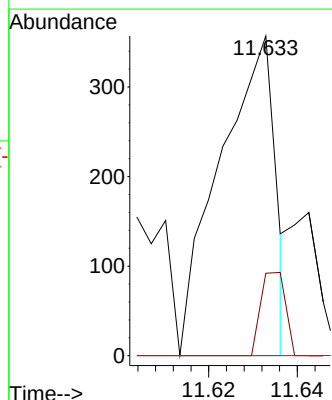
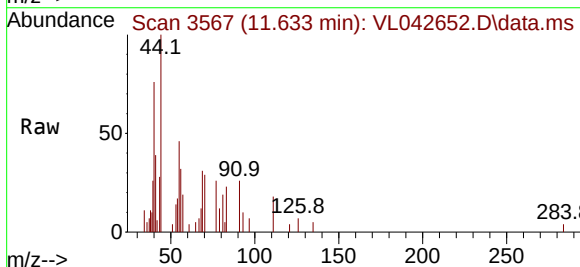
RT: 11.633 min Scan# 3567

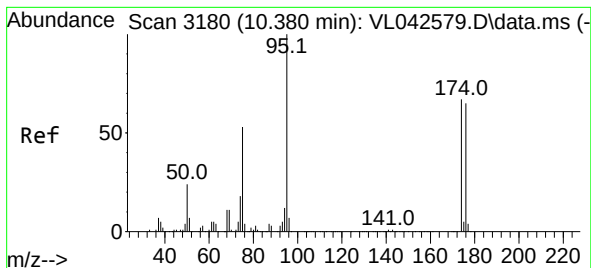
Delta R.T. 0.013 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Tgt Ion:	91	Resp:	312
Ion	Ratio	Lower	Upper
91	100		
126	0.0	15.1	22.7#
128	0.0	5.0	7.6#

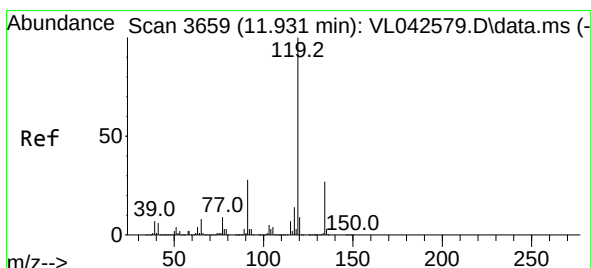
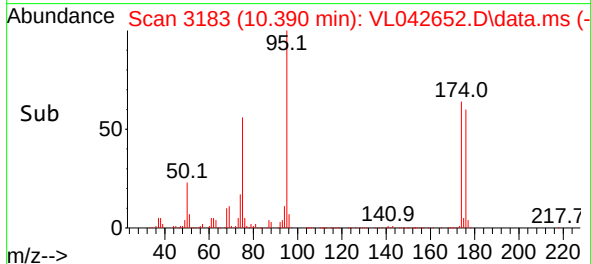
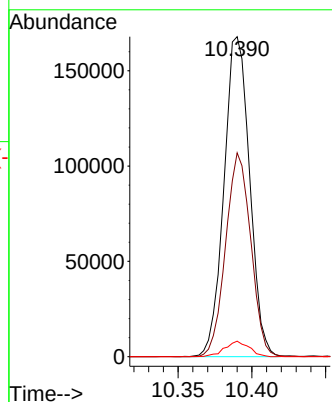
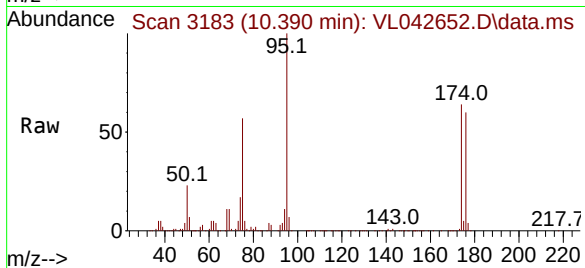




#68
1-Bromo-4-Fluorobenzene
Concen: 10.383 ppbv
RT: 10.390 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

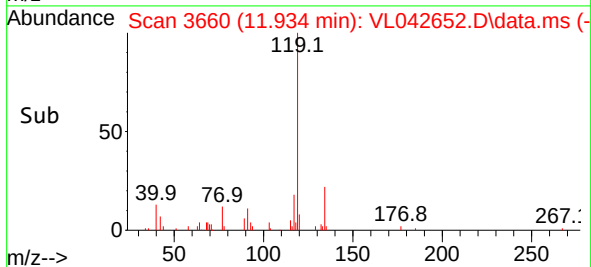
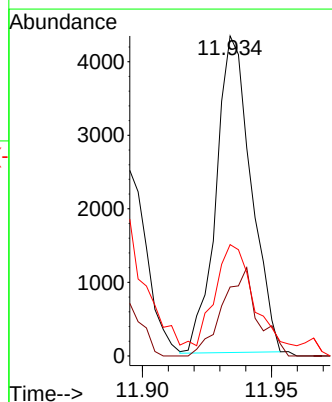
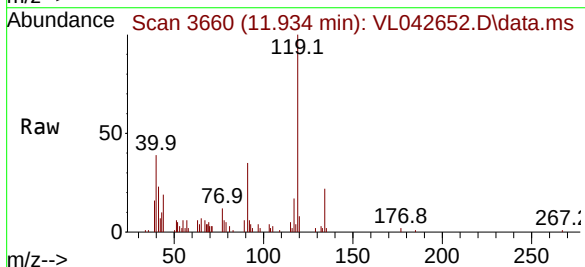
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

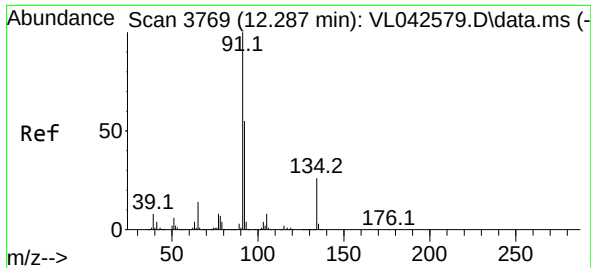
Tgt Ion: 95 Resp: 203142
Ion Ratio Lower Upper
95 100
174 62.3 53.1 79.7
175 4.6 4.2 6.2



#69
p-Isopropyltoluene
Concen: 0.074 ppbv
RT: 11.934 min Scan# 3660
Delta R.T. 0.003 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 119 Resp: 4057
Ion Ratio Lower Upper
119 100
134 27.9 21.1 31.7
91 44.3 21.9 32.9#

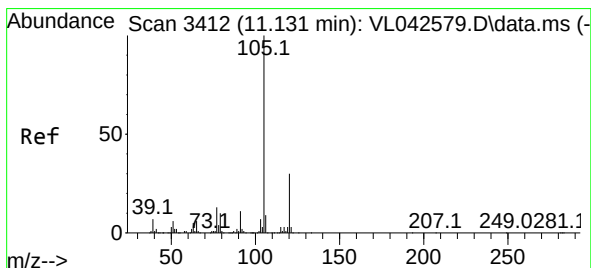
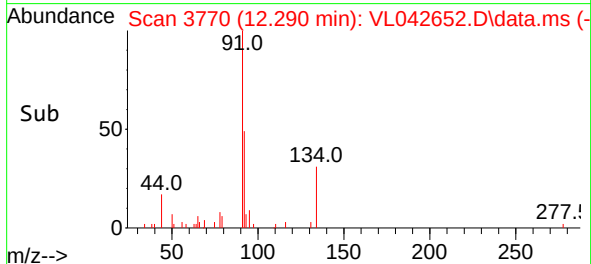
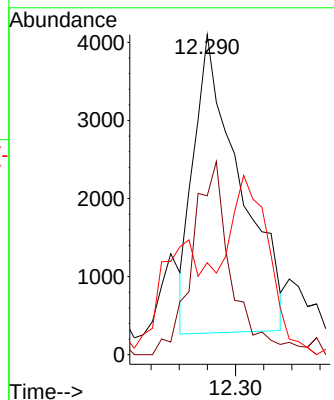
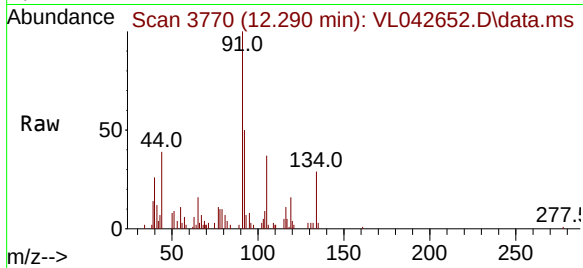




#70
n-Butylbenzene
Concen: 0.080 ppbv
RT: 12.290 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

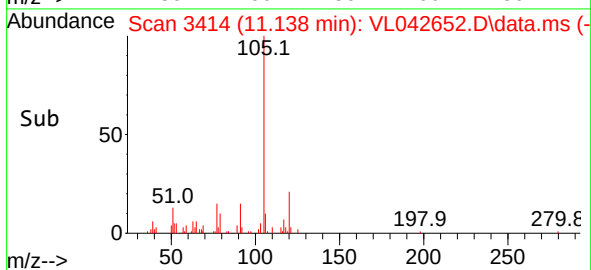
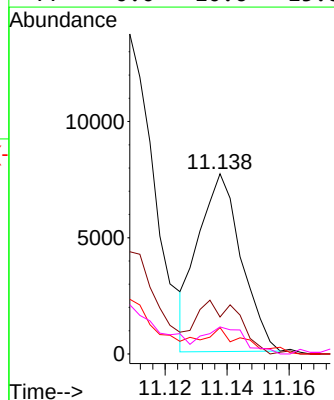
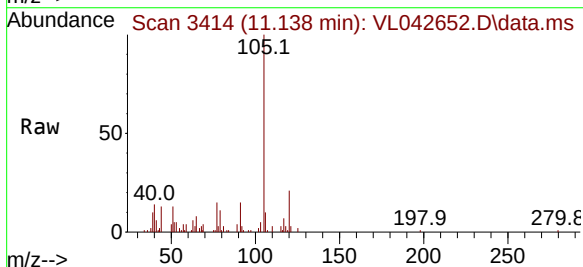
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

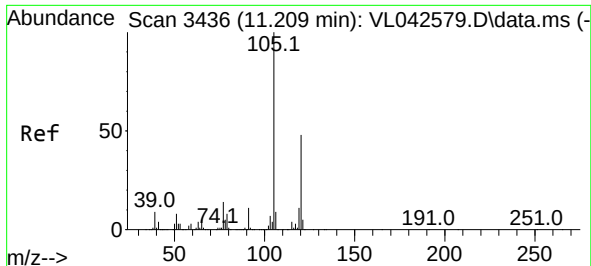
Tgt Ion: 91 Resp: 4324
Ion Ratio Lower Upper
91 100
92 56.5 44.4 66.6
134 95.2 20.1 30.1#



#72
4-Ethyltoluene
Concen: 0.171 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 105 Resp: 7407
Ion Ratio Lower Upper
105 100
120 0.0 24.6 36.8#
91 0.0 9.6 14.4#
77 0.0 10.6 15.8#

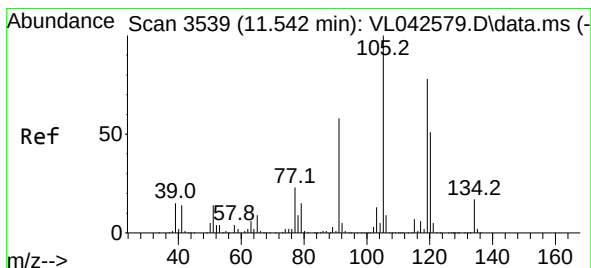
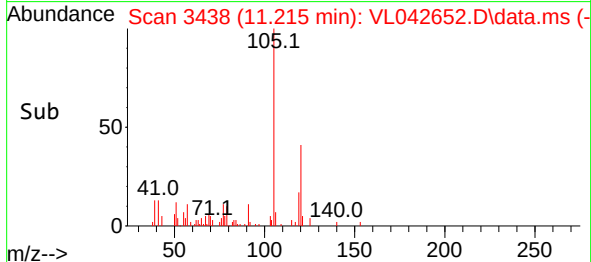
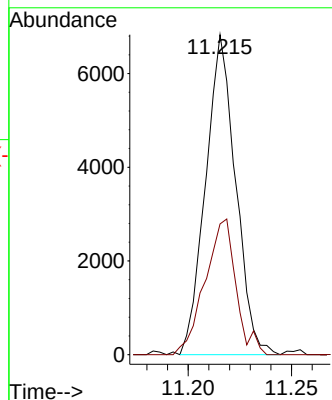
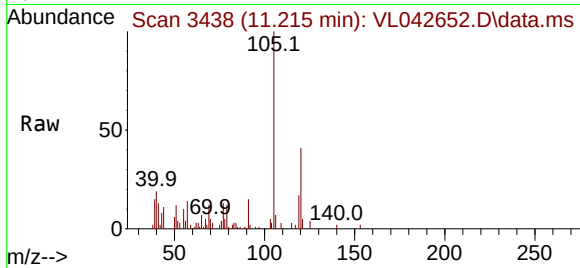




#73
 1,3,5-Trimethylbenzene
 Concen: 0.193 ppbv
 RT: 11.215 min Scan# 3436
 Delta R.T. 0.007 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

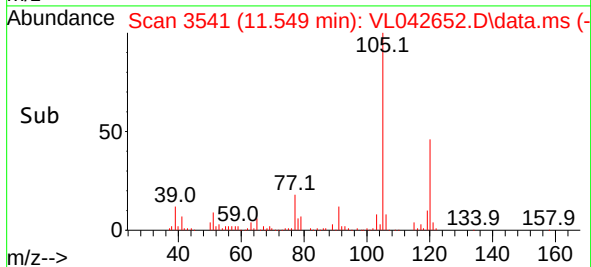
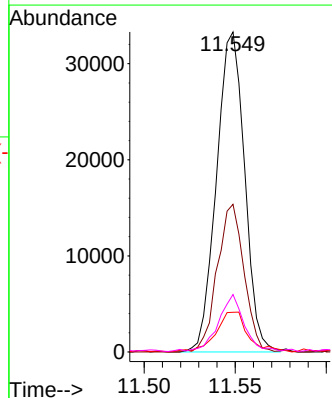
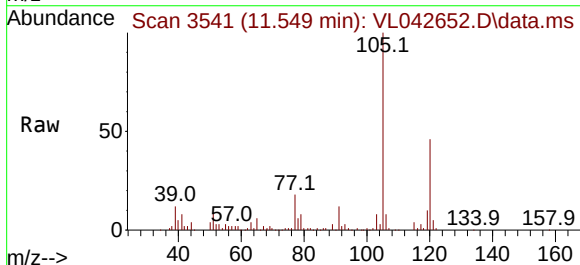
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP

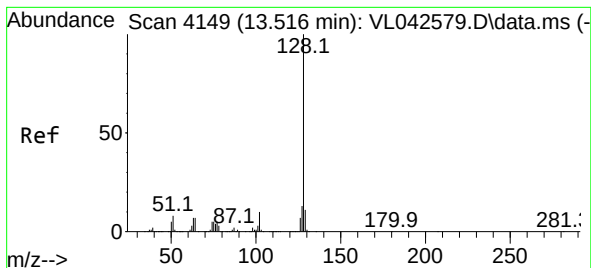
Tgt Ion:105 Resp: 6906
 Ion Ratio Lower Upper
 105 100
 120 40.9 38.8 58.2



#74
 1,2,4-Trimethylbenzene
 Concen: 0.898 ppbv
 RT: 11.549 min Scan# 3541
 Delta R.T. 0.007 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

Tgt Ion:105 Resp: 35737
 Ion Ratio Lower Upper
 105 100
 120 46.2 40.8 61.2
 91 11.9 46.8 70.2#
 77 17.6 18.2 27.2#





#79

Naphthalene

Concen: 0.507 ppbv

RT: 13.523 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

SS-1DUP

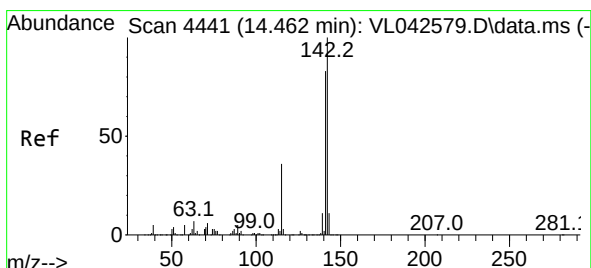
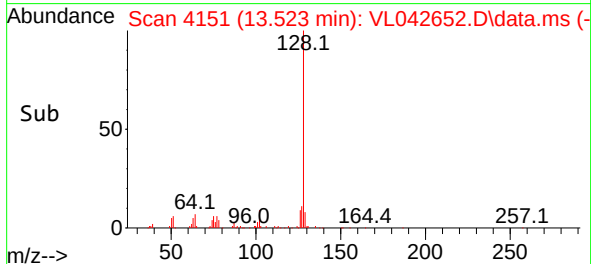
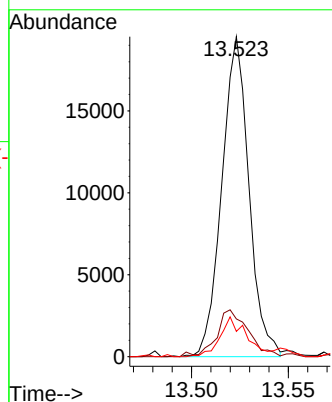
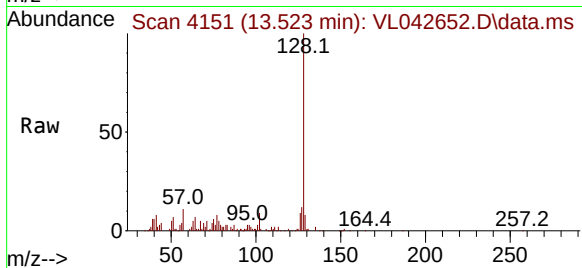
Tgt Ion:128 Resp: 19001

Ion Ratio Lower Upper

128 100

127 11.8 10.2 15.4

129 7.9 8.8 13.2#



#80

Naphthalene,2-methyl-

Concen: 0.527 ppbv

RT: 14.598 min Scan# 4483

Delta R.T. 0.136 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Tgt Ion:142 Resp: 8925

Ion Ratio Lower Upper

142 100

141 86.7 66.2 99.4

115 41.3 28.3 42.5

