

Cover Page

Order ID : Q3132

Project ID : CHADWICK SQUARE

Client : RTP Environmental

Lab Sample Number

Q3132-01
Q3132-02

Client Sample Number

151-1A-1
151-1A-2

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: 9/29/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



SHIPPING DOCUMENTS

Client Contact Information						Bottle Order ID : B2509029				Courier :				1 of 2 COCs					
Client ID : RTPE01 Project ID : Chalwick Square						Sampler Name(s) :				Analysis				Matrix					
Customer Name : RTP Environmental Address : 239 US Highway 22 East City : Green Brook State : NJ Zip Code : 08812 Country :						Project Manager : David gabel				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
						Phone Number : 732-968-9600													
						Fax Number :													
						Site Details: 151 JUNIPER DRIVE													
Analysis Turnaround Time						Data Package Type : Kul													
Standard : 10 business days OR						EDD Type : Hazsite/ECEI of CT.													
Rush (Specify): Days																			
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15			Indoor/Ambinet Air	Soil Gas
151-1A-1	9/16/25 -9/17/25	930	0905	-30	-4	70	70	-30	-2.2	10482	10599	6 L	4.16	VL042854.D	X			X	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]									
		Ambient	Maximum	Minimum															
Start																			
Stop																			
Pressure (Inches of Hg)										** 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 : NO																			
Canisters Shipped by: Sam					Date/Time: 09/15/25					Canisters Received by: RG					Date/Time: 9/15/25				
Samples Relinquished by: CW					Date/Time: 9/17/25					Received by: CR					Date/Time: 9/17/25 1530				
Relinquished by:					Date/Time:					Received by:					Date/Time:				
B2509029 - 6																			

Client Contact Information				Bottle Order ID : B2509029				Courier :				2 of 2 COCs			
Client ID : RTPE01				Project ID : Chadwith Square				Sampler Name(s) :				Analysis		Matrix	
Customer Name : RTP Environmental Address : 239 US Highway 22 East City : Green Brook State : NJ Zip Code : 08812 Country :				Project Manager : David gabel				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 732-968-9600											
				Fax Number :											
				Site Details: 151 JUMPER DRIVE											
				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
151-1A-2	9/16/25 9/17/25	932	0906	-30	-7	70	70	-30	-6.7	10696	10294	6 L	4.16	VL042854.D	X			X	

Temperature (Fahrenheit)					GC/MS Analyst Signature (TO-15) Sut
	Ambient	Maximum	Minimum		
Start					
Stop					

Pressure (Inches of Hg)					** 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 : **NO**

Canisters Shipped by: Scam	Date/Time: 9/15/25	Canisters Received by: 9/15/25 DG	Date/Time: 9/15/25
Samples Relinquished by: CW	Date/Time: 9/17/25	Received by: CW	Date/Time: 9/17/25 15:30
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2509029 - 5

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

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

NARGE

Title: Sample Custodian

Field Sample Seal No. Q3132

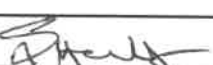
Date Broken 9/17/2025

Military Time Seal Broken: 15:30:00

Case No.: CHADWICK SQUARE

Analytical Parameter/Fraction TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3132-01	151-1A-1		
Q3132-02	~~151-1A-2~~ 151-1A-2 ✓		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/17/25	10:40	Signature 	Signature 	
		Printed Name <u>Cassanova</u>	Printed Name <u>Sam Sethy</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

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

Document Control # A3041228

CHEMTECH

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

Client Sample ID #: 151-1A-2

Client Name: RTP

Project Name: Chadwick Square - 151 Juniper

Date: 9/16/25 to 9/17/25 Time: 9:32 - 9:06

Analysis: TO-15

Comments:

CHEMTECH'S SA

Date Received:

Storage Location: Air Lab

Sample: Q3132-02

Cust #: 151-1A-2

sal:

CHEMTECH

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

Client Sample ID #: 151-1A-1

Client Name: RTP

Project Name: Chadwick Square - 151 Juniper

Date: 9/16/25 to 9/17/25 Time: 9:30 - 9:05

Analysis: TO-15

Comments:

CHEMTECH'S SAMPLE ID:

Date Received: Expiration

Storage Location: Air Lab

Sample: Q3132-01

Cust #: 151-1A-1



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

CASE NARRATIVE

RTP Environmental

Project Name: CHADWICK SQUARE

Project # N/A

Order ID # Q3132

Test Name: TO-15

A. Number of Samples and Date of Receipt:

2 Air samples were received on 09/17/2025.

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 were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD for {Q3130-02DUP} with File ID: VL042970.D met criteria except for 1,2-Dichloroethane[30.8%], Tetrachloroethene[200%] due to difference in results of original and DUP.

The Blank Spike met requirements for all compounds.

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

The %RSD is greater than 30% in the Initial Calibration method (VL092225AIR.M) for Methylene Chloride passing on Linear Regression.

The Tuning criteria met requirements.

Sample 151-1A-1 was diluted due to high concentration.

E. Additional Comments:

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

The not QT review data is reported in the Miscellaneous.

Alliance Technical Group, LLC - Newark holds certification for the analytes " Bromodichloromethane, Chloroethane and Heptane". Currently, we are not eligible to report them, as we have not successfully completed the required Proficiency Testing (PT) study. We are actively engaged in the PT study process to gain reporting eligibility.

The Sample #151-1A-1 and 151-1A-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	VL092225	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCO010	VL042950.D	m/p-Xylene	sam	9/23/2025 10:01:03 AM	MMDadoda	9/24/2025 2:16:17 AM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042951.D	1,1,2-Trichloroethane	sam	9/23/2025 10:01:08 AM	MMDadoda	9/24/2025 2:16:19 AM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042951.D	1,2-Dichloropropane	sam	9/23/2025 10:01:08 AM	MMDadoda	9/24/2025 2:16:19 AM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042951.D	1,4-Dioxane	sam	9/23/2025 10:01:08 AM	MMDadoda	9/24/2025 2:16:19 AM	Peak Integrated by Software incorrectly

							tly
VSTDICCO 02	VL04295 1.D	4-Methyl-2- Pentanone	sam	9/23/20 25 10:01:0 8 AM	MMDad oda	9/24/20 25 2:16:19 AM	Peak Integra ted by Softwar e incorrec tly
VSTDICCO 02	VL04295 1.D	m/p-Xylene	sam	9/23/20 25 10:01:0 8 AM	MMDad oda	9/24/20 25 2:16:19 AM	Peak Integra ted by Softwar e incorrec tly
VSTDICCO 01	VL04295 2.D	1,2- Dichloropropane	sam	9/23/20 25 10:01:1 3 AM	MMDad oda	9/24/20 25 2:16:21 AM	Peak Integra ted by Softwar e incorrec tly
VSTDICCO 01	VL04295 2.D	1,4-Dioxane	sam	9/23/20 25 10:01:1 3 AM	MMDad oda	9/24/20 25 2:16:21 AM	Peak Integra ted by Softwar e incorrec tly
VSTDICCO 01	VL04295 2.D	Bromodichlorome thane	sam	9/23/20 25 10:01:1 3 AM	MMDad oda	9/24/20 25 2:16:21 AM	Peak Integra ted by Softwar e incorrec tly
VSTDICCO 01	VL04295 2.D	cis-1,3- Dichloropropene	sam	9/23/20 25 10:01:1 3 AM	MMDad oda	9/24/20 25 2:16:21 AM	Peak Integra ted by Softwar e incorrec tly
VSTDICCO 01	VL04295 2.D	Heptane	sam	9/23/20 25 10:01:1 3 AM	MMDad oda	9/24/20 25 2:16:21 AM	Peak Integra ted by Softwar e

							incorrectly
VSTDICCO01	VL04295 2.D	m/p-Xylene	sam	9/23/2025 10:01:13 AM	MMDadoda	9/24/2025 2:16:21 AM	Peak Integrated by Software incorrectly
VSTDICCO01	VL04295 2.D	t-1,3-Dichloropropene	sam	9/23/2025 10:01:13 AM	MMDadoda	9/24/2025 2:16:21 AM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL04295 3.D	1,1,2-Trichloroethane	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL04295 3.D	1,4-Dioxane	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL04295 3.D	2,2,4-Trimethylpentane	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL04295 3.D	Benzyl Chloride	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL04295 3.D	cis-1,3-Dichloropropene	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software

							e in cor rec tly
VSTDICCO .5	VL04295 3.D	Ethanol	sam	9/23/20 25 10:02:1 1 AM	MMDad oda	9/24/20 25 2:16:23 AM	Peak Integra ted by Softwar e in cor rec tly
VSTDICCO .5	VL04295 3.D	Heptane	sam	9/23/20 25 10:02:1 1 AM	MMDad oda	9/24/20 25 2:16:23 AM	Peak Integra ted by Softwar e in cor rec tly
VSTDICCO .5	VL04295 3.D	m/p-Xylene	sam	9/23/20 25 10:02:1 1 AM	MMDad oda	9/24/20 25 2:16:23 AM	Peak Integra ted by Softwar e in cor rec tly
VSTDICCO .5	VL04295 3.D	Methyl Methacrylate	sam	9/23/20 25 10:02:1 1 AM	MMDad oda	9/24/20 25 2:16:23 AM	Peak Integra ted by Softwar e in cor rec tly
VSTDICCO .5	VL04295 3.D	t-1,3- Dichloropropene	sam	9/23/20 25 10:02:1 1 AM	MMDad oda	9/24/20 25 2:16:23 AM	Peak Integra ted by Softwar e in cor rec tly
VSTDICCO .5	VL04295 3.D	Tetrachloroethen e	sam	9/23/20 25 10:02:1 1 AM	MMDad oda	9/24/20 25 2:16:23 AM	Peak Integra ted by Softwar e in cor rec tly
VSTDICCO .5	VL04295 3.D	trans-1,2- Dichloroethene	sam	9/23/20 25 10:02:1	MMDad oda	9/24/20 25 2:16:23	Peak Integra ted by

				1 AM		AM	Software incorrectly
VSTDICCO .1	VL04295 4.D	1,2-Dibromoethane	sam	9/23/20 25 10:02:56 AM	MMDad oda	9/24/20 25 2:16:25 AM	Peak Integrated by Software incorrectly
VSTDICCO .1	VL04295 4.D	Carbon Tetrachloride	sam	9/23/20 25 10:02:56 AM	MMDad oda	9/24/20 25 2:16:25 AM	Peak Integrated by Software incorrectly
VSTDICCO .1	VL04295 4.D	Naphthalene	sam	9/23/20 25 10:02:56 AM	MMDad oda	9/24/20 25 2:16:25 AM	Peak Integrated by Software incorrectly
VSTDICCO .1	VL04295 4.D	Tetrachloroethene	sam	9/23/20 25 10:02:56 AM	MMDad oda	9/24/20 25 2:16:25 AM	Peak Integrated by Software incorrectly
VSTDICCO .1	VL04295 4.D	Trichloroethene	sam	9/23/20 25 10:02:56 AM	MMDad oda	9/24/20 25 2:16:25 AM	Peak Integrated by Software incorrectly
VSTDICCO .03	VL04295 5.D	1,1,1-Trichloroethane	sam	9/23/20 25 10:01:57 AM	MMDad oda	9/24/20 25 2:16:26 AM	Peak Integrated by Software incorrectly
VSTDICCO .03	VL04295 5.D	1,1,2,2-Tetrachloroethane	sam	9/23/20 25	MMDad oda	9/24/20 25	Peak Integra

		e		10:01:57 AM		2:16:26 AM	ted by Software incorrectly
VSTDICCO.03	VL04295 5.D	Carbon Tetrachloride	sam	9/23/2025 10:01:57 AM	MMDad oda	9/24/2025 2:16:26 AM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL04295 5.D	Tetrachloroethene	sam	9/23/2025 10:01:57 AM	MMDad oda	9/24/2025 2:16:26 AM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL04295 5.D	Trichloroethene	sam	9/23/2025 10:01:57 AM	MMDad oda	9/24/2025 2:16:26 AM	Peak Integrated by Software incorrectly
VSTDICCO.15	VL04295 6.D	m/p-Xylene	sam	9/23/2025 10:01:19 AM	MMDad oda	9/24/2025 2:16:27 AM	Peak Integrated by Software incorrectly
VSTDICV010	VL04295 7.D	m/p-Xylene	sam	9/23/2025 10:01:52 AM	MMDad oda	9/24/2025 2:16:29 AM	Peak Integrated by Software incorrectly
VL0922AB S01	VL04295 9.D	m/p-Xylene	sam	9/23/2025 10:01:29 AM	MMDad oda	9/24/2025 2:16:44 AM	Peak Integrated by Software incorrectly
Q3130-	VL04297	2,2,4-	sam	9/23/20	MMDad	9/24/20	Peak

02DUP	0.D	Trimethylpentane		25 10:03:16 AM	oda	25 2:17:13 AM	Integrated by Software incorrectly
Q3130-02DUP	VL04297 0.D	Carbon Tetrachloride	sam	9/23/20 25 10:03:16 AM	MMDad oda	9/24/20 25 2:17:13 AM	Peak Integrated by Software incorrectly
Q3130-02DUP	VL04297 0.D	m/p-Xylene	sam	9/23/20 25 10:03:16 AM	MMDad oda	9/24/20 25 2:17:13 AM	Peak Integrated by Software incorrectly
Q3130-02DUP	VL04297 0.D	Propene	sam	9/23/20 25 10:03:16 AM	MMDad oda	9/24/20 25 2:17:13 AM	Peak Integrated by Software incorrectly
Q3130-02DUP	VL04297 0.D	Tetrachloroethene	sam	9/23/20 25 10:03:16 AM	MMDad oda	9/24/20 25 2:17:13 AM	Peak Integrated by Software incorrectly
Q3132-01	VL04297 8.D	2,2,4-Trimethylpentane	MMDad oda	9/24/20 25 2:17:55 AM	SAM	9/24/20 25 2:25:43 AM	Peak Integrated by Software incorrectly
Q3132-01	VL04297 8.D	Acetone	MMDad oda	9/24/20 25 2:17:55 AM	SAM	9/24/20 25 2:25:43 AM	Peak Integrated by Software incorrectly

Q3132-01	VL04297 8.D	Carbon Tetrachloride	MMDad oda	9/24/20 25 2:17:55 AM	SAM	9/24/20 25 2:25:43 AM	Peak Integra ted by Softwar e incorrec tly
Q3132-01	VL04297 8.D	Chlorodifluorome thane	MMDad oda	9/24/20 25 2:17:55 AM	SAM	9/24/20 25 2:25:43 AM	Peak Integra ted by Softwar e incorrec tly
Q3132-01	VL04297 8.D	Cyclohexane	MMDad oda	9/24/20 25 2:17:55 AM	SAM	9/24/20 25 2:25:43 AM	Peak Integra ted by Softwar e incorrec tly
Q3132-01	VL04297 8.D	Propene	MMDad oda	9/24/20 25 2:17:55 AM	SAM	9/24/20 25 2:25:43 AM	Peak Integra ted by Softwar e incorrec tly
Q3132-01	VL04297 8.D	Styrene	MMDad oda	9/24/20 25 2:17:55 AM	SAM	9/24/20 25 2:25:43 AM	Peak Integra ted by Softwar e incorrec tly
Q3132-01	VL04297 8.D	tert-Butyl alcohol	MMDad oda	9/24/20 25 2:17:55 AM	SAM	9/24/20 25 2:25:43 AM	Peak Integra ted by Softwar e incorrec tly
Q3132-01	VL04297 8.D	Tetrachloroethen e	MMDad oda	9/24/20 25 2:17:55 AM	SAM	9/24/20 25 2:25:43 AM	Peak Integra ted by Softwar e incorrec tly

Q3132-01	VL04297 8.D	Toluene	MMDad oda	9/24/20 25 2:17:55 AM	SAM	9/24/20 25 2:25:43 AM	Peak Integra ted by Softwar e incorrec tly
Q3132-01DL	VL04297 9.D	Acetone	MMDad oda	9/24/20 25 2:17:57 AM	SAM	9/24/20 25 2:25:44 AM	Peak Integra ted by Softwar e incorrec tly
Q3132-01DL	VL04297 9.D	m/p-Xylene	MMDad oda	9/24/20 25 2:17:57 AM	SAM	9/24/20 25 2:25:44 AM	Peak Integra ted by Softwar e incorrec tly
Q3132-02	VL04298 0.D	2,2,4- Trimethylpentane	MMDad oda	9/24/20 25 2:17:58 AM	SAM	9/24/20 25 2:25:46 AM	Peak Integra ted by Softwar e incorrec tly
Q3132-02	VL04298 0.D	4-Methyl-2- Pentanone	MMDad oda	9/24/20 25 2:17:58 AM	SAM	9/24/20 25 2:25:46 AM	Peak Integra ted by Softwar e incorrec tly
Q3132-02	VL04298 0.D	Acetone	MMDad oda	9/24/20 25 2:17:58 AM	SAM	9/24/20 25 2:25:46 AM	Peak Integra ted by Softwar e incorrec tly
Q3132-02	VL04298 0.D	Carbon Tetrachloride	MMDad oda	9/24/20 25 2:17:58 AM	SAM	9/24/20 25 2:25:46 AM	Peak Integra ted by Softwar e incorrec tly

Q3132-02	VL04298 0.D	Chlorodifluorome thane	MMDad oda	9/24/20 25 2:17:58 AM	SAM	9/24/20 25 2:25:46 AM	Peak Integra ted by Softwar e incorrec tly
Q3132-02	VL04298 0.D	Cyclohexane	MMDad oda	9/24/20 25 2:17:58 AM	SAM	9/24/20 25 2:25:46 AM	Peak Integra ted by Softwar e incorrec tly
Q3132-02	VL04298 0.D	Heptane	MMDad oda	9/24/20 25 2:17:58 AM	SAM	9/24/20 25 2:25:46 AM	Peak Integra ted by Softwar e incorrec tly
Q3132-02	VL04298 0.D	Propene	MMDad oda	9/24/20 25 2:17:58 AM	SAM	9/24/20 25 2:25:46 AM	Peak Integra ted by Softwar e incorrec tly

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 #: Q3132

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: 09/29/2025

LAB CHRONICLE

OrderID:	Q3132	OrderDate:	9/18/2025 9:27:00 AM
Client:	RTP Environmental	Project:	CHADWICK SQUARE
Contact:	David Gabel	Location:	Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3132-01	151-1A-1	Air	TO-15	TO-15	09/17/25		09/23/25	09/17/25
Q3132-01DL	151-1A-1DL	Air	TO-15	TO-15	09/17/25		09/23/25	09/17/25
Q3132-02	151-1A-2	Air	TO-15	TO-15	09/17/25		09/23/25	09/17/25

Hit Summary Sheet SW-846

SDG No.: Q3132

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	151-1A-1							
Q3132-01	151-1A-1	Air	Dichlorodifluoromethane	2.23	J	0.54	2.47	ug/m3
Q3132-01	151-1A-1	Air	Chloromethane	1.12		0.21	1.03	ug/m3
Q3132-01	151-1A-1	Air	Trichlorofluoromethane	2.75	J	0.96	2.81	ug/m3
Q3132-01	151-1A-1	Air	Heptane	1.64	J	0.70	2.05	ug/m3
Q3132-01	151-1A-1	Air	Acetone	41.6	E	0.43	1.19	ug/m3
Q3132-01	151-1A-1	Air	Methylene Chloride	16.3		0.80	1.74	ug/m3
Q3132-01	151-1A-1	Air	Cyclohexane	1.03	J	0.76	1.72	ug/m3
Q3132-01	151-1A-1	Air	2-Butanone	2.06		0.18	1.47	ug/m3
Q3132-01	151-1A-1	Air	Carbon Tetrachloride	0.50		0.19	0.19	ug/m3
Q3132-01	151-1A-1	Air	Chloroform	4.88		0.49	2.44	ug/m3
Q3132-01	151-1A-1	Air	2,2,4-Trimethylpentane	1.40	J	0.65	2.34	ug/m3
Q3132-01	151-1A-1	Air	Benzene	1.69		0.26	1.60	ug/m3
Q3132-01	151-1A-1	Air	1,2-Dichloroethane	0.77	J	0.36	2.02	ug/m3
Q3132-01	151-1A-1	Air	Toluene	7.16		0.60	1.88	ug/m3
Q3132-01	151-1A-1	Air	Tetrachloroethene	0.27		0.14	0.20	ug/m3
Q3132-01	151-1A-1	Air	Ethyl Benzene	1.26	J	0.83	2.17	ug/m3
Q3132-01	151-1A-1	Air	m/p-Xylene	4.78		1.78	4.34	ug/m3
Q3132-01	151-1A-1	Air	o-Xylene	1.61	J	0.91	2.17	ug/m3
Q3132-01	151-1A-1	Air	Styrene	0.77	J	0.68	2.13	ug/m3
Q3132-01	151-1A-1	Air	1,2,4-Trimethylbenzene	1.28	J	0.88	2.46	ug/m3
Q3132-01	151-1A-1	Air	Hexane	6.70		0.56	1.76	ug/m3
Total Voc :					102			
Total Concentration:					102			
Client ID:	151-1A-1DL							
Q3132-01DL	151-1A-1DL	Air	Acetone	44.7	D	4.28	11.9	ug/m3
Q3132-01DL	151-1A-1DL	Air	Chloroform	5.37	JD	4.69	24.4	ug/m3
Q3132-01DL	151-1A-1DL	Air	Toluene	6.41	JD	6.03	18.8	ug/m3
Q3132-01DL	151-1A-1DL	Air	Hexane	7.05	JD	5.64	17.6	ug/m3
Total Voc :					63.5			
Total Concentration:					63.5			
Client ID:	151-1A-2							
Q3132-02	151-1A-2	Air	Dichlorodifluoromethane	2.27	J	0.54	2.47	ug/m3
Q3132-02	151-1A-2	Air	Chloromethane	1.01	J	0.21	1.03	ug/m3
Q3132-02	151-1A-2	Air	Tetrahydrofuran	0.44	J	0.24	1.47	ug/m3
Q3132-02	151-1A-2	Air	Trichlorofluoromethane	2.59	J	0.96	2.81	ug/m3
Q3132-02	151-1A-2	Air	Heptane	1.15	J	0.70	2.05	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q3132

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3132-02	151-1A-2	Air	Acetone	29.9		0.43	1.19	ug/m3
Q3132-02	151-1A-2	Air	Methylene Chloride	2.29		0.80	1.74	ug/m3
Q3132-02	151-1A-2	Air	Cyclohexane	0.79	J	0.76	1.72	ug/m3
Q3132-02	151-1A-2	Air	2-Butanone	1.59		0.18	1.47	ug/m3
Q3132-02	151-1A-2	Air	Carbon Tetrachloride	0.44		0.19	0.19	ug/m3
Q3132-02	151-1A-2	Air	Chloroform	4.54		0.49	2.44	ug/m3
Q3132-02	151-1A-2	Air	2,2,4-Trimethylpentane	1.07	J	0.65	2.34	ug/m3
Q3132-02	151-1A-2	Air	Benzene	1.44	J	0.26	1.60	ug/m3
Q3132-02	151-1A-2	Air	1,2-Dichloroethane	0.85	J	0.36	2.02	ug/m3
Q3132-02	151-1A-2	Air	4-Methyl-2-Pentanone	0.45	J	0.41	2.05	ug/m3
Q3132-02	151-1A-2	Air	Toluene	4.90		0.60	1.88	ug/m3
Q3132-02	151-1A-2	Air	Tetrachloroethene	0.20		0.14	0.20	ug/m3
Q3132-02	151-1A-2	Air	Ethyl Benzene	1.04	J	0.83	2.17	ug/m3
Q3132-02	151-1A-2	Air	m/p-Xylene	3.61	J	1.78	4.34	ug/m3
Q3132-02	151-1A-2	Air	o-Xylene	1.13	J	0.91	2.17	ug/m3
Q3132-02	151-1A-2	Air	Styrene	0.81	J	0.68	2.13	ug/m3
Q3132-02	151-1A-2	Air	1,2,4-Trimethylbenzene	1.18	J	0.88	2.46	ug/m3
Q3132-02	151-1A-2	Air	Hexane	12.0		0.56	1.76	ug/m3
Total Voc :					75.7			
Total Concentration:					75.7			

Project : CHADWICK SQUARE

Sampling Date : 09/17/25

Field Id Number : 151-1A-1

Analysis Date : 09/23/25

Laboratory Id Number : Q3132-01

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.45	J	2.23		
Chloromethane	74-87-3	50.49	0.54		1.12		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
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	0.08	U	0.24		
Trichlorofluoromethane	75-69-4	137.4	0.49	J	2.75		
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	0.4	J	1.64		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	17.5	E	41.6		
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	4.7		16.3		
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	0.3	J	1.03		
2-Butanone	78-93-3	72.11	0.7		2.06		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	1		4.88		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.3	J	1.4		
Benzene	71-43-2	78.11	0.53		1.69		
1,2-Dichloroethane	107-06-2	98.96	0.19	J	0.77		
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	1.9		7.16		
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 : CHADWICK SQUARE

Sampling Date : 09/17/25

Field Id Number : 151-1A-1

Analysis Date : 09/23/25

Laboratory Id Number : Q3132-01

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	0.04		0.27		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.29	J	1.26		
m/p-Xylene	179601-23-1	106.2	1.1		4.78		
o-Xylene	95-47-6	106.2	0.37	J	1.61		
Styrene	100-42-5	104.1	0.18	J	0.77		
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	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.26	J	1.28		
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	0.01	U	0.05		
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	1.9		6.7		
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 : CHADWICK SQUARE

Sampling Date : 09/17/25

Field Id Number : 151-1A-1DL

Analysis Date : 09/23/25

Laboratory Id Number : Q3132-01DL

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	0.98	UD	2.02		
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	0.8	UD	2.36		
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	1.7	UD	6.97		
1,1-Dichloroethene	75-35-4	96.94	1.5	UD	5.95		
Acetone	67-64-1	58.08	18.8	D	44.7		
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	2.3	UD	7.99		
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	0.56	UD	1.65		
Carbon Tetrachloride	56-23-5	153.8	0.25	UD	1.57		
cis-1,2-Dichloroethene	156-59-2	96.94	0.99	UD	3.93		
Chloroform	67-66-3	119.4	1.1	JD	5.37		
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	1.7	JD	6.41		
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 : CHADWICK SQUARE

Sampling Date : 09/17/25

Field Id Number : 151-1A-1DL

Analysis Date : 09/23/25

Laboratory Id Number : Q3132-01DL

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	2	JD	7.05		
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		

Project : CHADWICK SQUARE

Sampling Date : 09/17/25

Field Id Number : 151-1A-2

Analysis Date : 09/23/25

Laboratory Id Number : Q3132-02

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.46	J	2.27		
Chloromethane	74-87-3	50.49	0.49	J	1.01		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
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	0.15	J	0.44		
Trichlorofluoromethane	75-69-4	137.4	0.46	J	2.59		
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	0.28	J	1.15		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	12.6		29.9		
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	0.66		2.29		
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	0.23	J	0.79		
2-Butanone	78-93-3	72.11	0.54		1.59		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.93		4.54		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.23	J	1.07		
Benzene	71-43-2	78.11	0.45	J	1.44		
1,2-Dichloroethane	107-06-2	98.96	0.21	J	0.85		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.11	J	0.45		
Toluene	108-88-3	92.14	1.3		4.9		
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 : CHADWICK SQUARE

Sampling Date : 09/17/25

Field Id Number : 151-1A-2

Analysis Date : 09/23/25

Laboratory Id Number : Q3132-02

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	0.03		0.2		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.24	J	1.04		
m/p-Xylene	179601-23-1	106.2	0.83	J	3.61		
o-Xylene	95-47-6	106.2	0.26	J	1.13		
Styrene	100-42-5	104.1	0.19	J	0.81		
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	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.24	J	1.18		
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	0.01	U	0.05		
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	3.4		12.0		
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		

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



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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.: **Q3132**

Client: **RTP Environmental**

Analytical Method: **SWTO-15**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3130-02DUP	131-1A-2DUP	1-Bromo-4-Fluorobenzene	10	10.2	102		70 (65)	130 (135)
Q3132-01	151-1A-1	1-Bromo-4-Fluorobenzene	10	10.3	103		70 (65)	130 (135)
Q3132-01DL	151-1A-1DL	1-Bromo-4-Fluorobenzene	10	10.3	103		70 (65)	130 (135)
Q3132-02	151-1A-2	1-Bromo-4-Fluorobenzene	10	10.5	105		70 (65)	130 (135)
VL0922ABL01	VL0922ABL01	1-Bromo-4-Fluorobenzene	10	10.0	100		70 (65)	130 (135)
VL0922ABS01	VL0922ABS01	1-Bromo-4-Fluorobenzene	10	10.0	100		70 (65)	130 (135)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q3132	Analytical Method:	SWTO-15
Client:	RTP Environmental	Datafile :	VL042959.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0922ABS01	Dichlorodifluoromethane	10	9.30	ppbv	93			40 (70)	160 (130)	
	Chloromethane	10	8.70	ppbv	87			40 (70)	160 (130)	
	Vinyl Chloride	10	8.40	ppbv	84			70 (70)	130 (130)	
	Bromomethane	10	8.30	ppbv	83			40 (70)	160 (130)	
	Chloroethane	10	8.80	ppbv	88			40 (70)	160 (130)	
	Tetrahydrofuran	10	9.30	ppbv	93			70 (70)	130 (130)	
	Trichlorofluoromethane	10	9.10	ppbv	91			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	9.00	ppbv	90			70 (70)	130 (130)	
	Dichlorotetrafluoroethane	10	9.00	ppbv	90			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	9.00	ppbv	90			70 (70)	130 (130)	
	Heptane	10	9.00	ppbv	90			70 (70)	130 (130)	
	1,1-Dichloroethene	10	9.00	ppbv	90			70 (70)	130 (130)	
	Acetone	10	7.40	ppbv	74			40 (70)	160 (130)	
	Carbon disulfide	10	8.80	ppbv	88			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	7.80	ppbv	78			70 (70)	130 (130)	
	Methylene Chloride	10	9.80	ppbv	98			70 (70)	130 (130)	
	trans-1,2-Dichloroethene	10	8.90	ppbv	89			70 (70)	130 (130)	
	1,1-Dichloroethane	10	9.00	ppbv	90			70 (70)	130 (130)	
	Cyclohexane	10	9.30	ppbv	93			70 (70)	130 (130)	
	2-Butanone	10	9.20	ppbv	92			40 (70)	160 (130)	
	Carbon Tetrachloride	10	9.70	ppbv	97			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	9.30	ppbv	93			70 (70)	130 (130)	
	Chloroform	10	9.50	ppbv	95			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	9.00	ppbv	90			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	9.40	ppbv	94			70 (70)	130 (130)	
	Benzene	10	9.60	ppbv	96			70 (70)	130 (130)	
	1,2-Dichloroethane	10	9.90	ppbv	99			70 (70)	130 (130)	
	Trichloroethene	10	9.20	ppbv	92			70 (70)	130 (130)	
	1,2-Dichloropropane	10	9.70	ppbv	97			70 (70)	130 (130)	
	Bromodichloromethane	10	9.90	ppbv	99			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	9.60	ppbv	96			40 (70)	160 (130)	
	Toluene	10	9.50	ppbv	95			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	9.50	ppbv	95			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	9.70	ppbv	97			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	9.60	ppbv	96			70 (70)	130 (130)	
	Dibromochloromethane	10	10.0	ppbv	100			70 (70)	130 (130)	
	1,2-Dibromoethane	10	9.70	ppbv	97			70 (70)	130 (130)	
	Tetrachloroethene	10	8.70	ppbv	87			70 (70)	130 (130)	
	Chlorobenzene	10	9.40	ppbv	94			70 (70)	130 (130)	
	Ethyl Benzene	10	9.50	ppbv	95			70 (70)	130 (130)	
	m/p-Xylene	20	18.9	ppbv	95			70 (70)	130 (130)	
	o-Xylene	10	9.40	ppbv	94			70 (70)	130 (130)	
	Styrene	10	9.60	ppbv	96			70 (70)	130 (130)	
	Bromoform	10	9.80	ppbv	98			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	8.90	ppbv	89			70 (70)	130 (130)	
	2-Chlorotoluene	10	9.30	ppbv	93			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	9.50	ppbv	95			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	9.30	ppbv	93			70 (70)	130 (130)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3132</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>RTP Environmental</u>	Datafile :	<u>VL042959.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0922ABS01	1,3-Dichlorobenzene	10	9.30	ppbv	93			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	9.40	ppbv	94			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	9.30	ppbv	93			70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	10.0	ppbv	100			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	8.40	ppbv	84			70 (70)	130 (130)	
	Naphthalene	10	10.3	ppbv	103			40 (70)	160 (130)	
	1,3-Butadiene	10	8.10	ppbv	81			70 (70)	130 (130)	
	4-Ethyltoluene	10	9.30	ppbv	93			70 (70)	130 (130)	
	Hexane	10	9.10	ppbv	91			70 (70)	130 (130)	
	Allyl Chloride	10	9.00	ppbv	90			70 (70)	130 (130)	
	1,4-Dioxane	10	9.30	ppbv	93			40 (70)	160 (130)	
	Methyl methacrylate	10	9.30	ppbv	93			70 (70)	130 (130)	

Duplicate Sample Summary

Lab Sample Id :	Q3130-02DUP	Q3130-02
Client Id :	131-1A-2DUP	131-1A-2
DF :	1	1
Datafile :	VL042970.D	VL042969.D
Anal Date & Time :	09/22/2025 22:48	09/22/2025 22:11

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	0	0	0
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0.15	0.11	30.8 *
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0	0	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	0	0	0
2-Butanone	0.37	0.41	10.3
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	6.2	6.3	1.6
Allyl Chloride	0	0	0
Benzene	0.18	0.17	5.7
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.07	0.06	15.4

Duplicate Sample Summary

Lab Sample Id :	Q3130-02DUP	Q3130-02
Client Id :	131-1A-2DUP	131-1A-2
DF :	1	1
Datafile :	VL042970.D	VL042969.D
Anal Date & Time :	09/22/2025 22:48	09/22/2025 22:11

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0.41	0.42	2.4
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.43	0.46	6.7
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	2.4	2.4	0
m/p-Xylene	0	0	0
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	2	2.1	4.9
Naphthalene	0.14	0.15	6.9
o-Xylene	0	0	0
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0.2	0.17	16.2
Tetrachloroethene	0	0.03	200 *
Tetrahydrofuran	0	0	0
Toluene	0.38	0.37	2.7
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.23	0.22	4.4
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

Client ID

VL0922ABL01

Lab Name: Alliance

Contract: RTPE01

Lab Code: ACE

SDG NO.: Q3132

Lab File ID: VL042958.D

Lab Sample ID: VL0922ABL01

Date Analyzed: 09/22/2025

Time Analyzed: 15:06

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
VL0922ABS01	VL0922ABS01	VL042959.D	09/22/2025
131-1A-2DUP	Q3130-02DUP	VL042970.D	09/22/2025
151-1A-1	Q3132-01	VL042978.D	09/23/2025
151-1A-1DL	Q3132-01DL	VL042979.D	09/23/2025
151-1A-2	Q3132-02	VL042980.D	09/23/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: VL042949.D
Instrument ID: MSVOA_L
GC Column: RTX-1 ID: 0.32 (mm)

Contract: RTPE01
SDG NO.: Q3132
BFB Injection Date: 09/22/2025
BFB Injection Time: 08:55
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.5
75	30.0 - 66.0% of mass 95	54.7
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	66.2
175	4.0 - 9.0% of mass 174	4.9 (7.4) 1
176	93.0 - 101.0% of mass 174	64 (96.6) 1
177	5.0 - 9.0% of mass 176	4.2 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042950.D	09/22/2025	09:39
VSTDICCC002	VSTDICCC002	VL042951.D	09/22/2025	10:14
VSTDICCC001	VSTDICCC001	VL042952.D	09/22/2025	10:48
VSTDICCC0.5	VSTDICCC0.5	VL042953.D	09/22/2025	11:22
VSTDICCC0.1	VSTDICCC0.1	VL042954.D	09/22/2025	11:56
VSTDICCC0.03	VSTDICCC0.03	VL042955.D	09/22/2025	12:30
VSTDICCC015	VSTDICCC015	VL042956.D	09/22/2025	13:05
VL0922ABL01	VL0922ABL01	VL042958.D	09/22/2025	15:06
VL0922ABS01	VL0922ABS01	VL042959.D	09/22/2025	15:52
131-1A-2DUP	Q3130-02DUP	VL042970.D	09/22/2025	22:48
151-1A-1	Q3132-01	VL042978.D	09/23/2025	03:33
151-1A-1DL	Q3132-01DL	VL042979.D	09/23/2025	04:08
151-1A-2	Q3132-02	VL042980.D	09/23/2025	04:44

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: RTPE01
 Lab Code: ACE SDG NO.: Q3132
 Lab File ID: VL042950.D Date Analyzed: 09/22/2025
 Instrument ID: MSVOA_L Time Analyzed: 09:39
 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	170899	2.78	526679	3.95	486724	8.88
UPPER LIMIT	239259	3.11	737351	4.28	681414	9.21
LOWER LIMIT	102539	2.45	316007	3.62	292034	8.55
EPA SAMPLE NO.						
131-1A-2DUP	146991	2.79	437140	3.96	389571	8.88
151-1A-1	147886	2.79	425027	3.96	381413	8.89
151-1A-1DL	150287	2.79	424605	3.97	372157	8.89
151-1A-2	144544	2.79	414049	3.96	363422	8.89
VL0922ABL01	157278	2.79	497068	3.96	444461	8.88
VL0922ABS01	157611	2.79	475789	3.96	440323	8.88

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

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

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



SAMPLE DATA

Report of Analysis

Client:	RTP Environmental	Date Collected:	09/17/25
Project:	CHADWICK SQUARE	Date Received:	09/17/25
Client Sample ID:	151-1A-1	SDG No.:	Q3132
Lab Sample ID:	Q3132-01	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
VL042978.D	1		09/23/25 03:33	VL092225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
TARGETS						
75-71-8	Dichlorodifluoromethane	0.45	2.23	J	0.54	2.47
74-87-3	Chloromethane	0.54	1.12		0.21	1.03
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32
109-99-9	Tetrahydrofuran	0.080	0.24	U	0.24	1.47
75-69-4	Trichlorofluoromethane	0.49	2.75	J	0.96	2.81
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52
142-82-5	Heptane	0.40	1.64	J	0.70	2.05
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98
67-64-1	Acetone	17.5	41.6	E	0.43	1.19
75-15-0	Carbon Disulfide	0.080	0.25	U	0.25	1.56
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80
75-09-2	Methylene Chloride	4.70	16.3		0.80	1.74
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02
110-82-7	Cyclohexane	0.30	1.03	J	0.76	1.72
78-93-3	2-Butanone	0.70	2.06		0.18	1.47
56-23-5	Carbon Tetrachloride	0.080	0.50		0.19	0.19
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98
67-66-3	Chloroform	1.00	4.88		0.49	2.44
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16
540-84-1	2,2,4-Trimethylpentane	0.30	1.40	J	0.65	2.34
71-43-2	Benzene	0.53	1.69		0.26	1.60
107-06-2	1,2-Dichloroethane	0.19	0.77	J	0.36	2.02
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05
108-88-3	Toluene	1.90	7.16		0.60	1.88
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73

Report of Analysis

Client:	RTP Environmental	Date Collected:	09/17/25
Project:	CHADWICK SQUARE	Date Received:	09/17/25
Client Sample ID:	151-1A-1	SDG No.:	Q3132
Lab Sample ID:	Q3132-01	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
VL042978.D	1		09/23/25 03:33	VL092225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77
127-18-4	Tetrachloroethene	0.040	0.27		0.14	0.20
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30
100-41-4	Ethyl Benzene	0.29	1.26	J	0.83	2.17
179601-23-1	m/p-Xylene	1.10	4.78		1.78	4.34
95-47-6	o-Xylene	0.37	1.61	J	0.91	2.17
100-42-5	Styrene	0.18	0.77	J	0.68	2.13
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46
95-63-6	1,2,4-Trimethylbenzene	0.26	1.28	J	0.88	2.46
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46
110-54-3	Hexane	1.90	6.70		0.56	1.76
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05
SURROGATES						
460-00-4	1-Bromo-4-Fluorobenzene	10.3			70 (65) - 130 (135)	103% SPK: 10
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	148000		2.79		
540-36-3	1,4-Difluorobenzene	425000		3.962		
3114-55-4	Chlorobenzene-d5	381000		8.885		

Report of Analysis

Client:	RTP Environmental	Date Collected:	09/17/25
Project:	CHADWICK SQUARE	Date Received:	09/17/25
Client Sample ID:	151-1A-1	SDG No.:	Q3132
Lab Sample ID:	Q3132-01	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
VL042978.D	1		09/23/25 03:33	VL092225

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

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\VL092225\
 Data File : VL042978.D
 Acq On : 23 Sep 2025 03:33
 Operator : SY/MD
 Sample : Q3132-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-1A-1

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/24/2025
 Supervised By :Semsettin Yesilyurt 09/24/2025

Quant Time: Sep 24 01:15:04 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

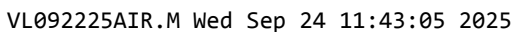
Response via : Initial Calibration

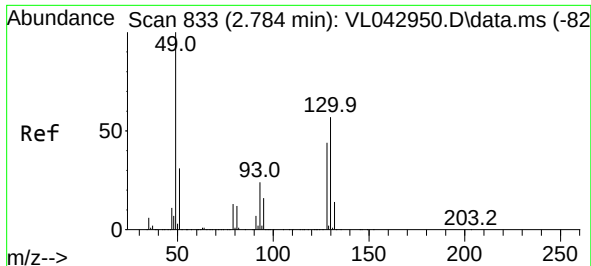
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	147886	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	425027	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	381413	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	292609	10.277	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8962	0.451	ppbv #	88
3) Chlorodifluoromethane	1.476	51	10475m	0.423	ppbv	
4) Chloromethane	1.534	50	4832	0.537	ppbv	100
9) Propene	1.486	41	6247m	0.579	ppbv	
10) Heptane	4.985	43	11414	0.397	ppbv	93
11) Trichlorofluoromethane	1.881	101	9406	0.490	ppbv	97
13) Ethanol	1.722	45	474338	453.376	ppbv	96
15) Acetone	1.835	43	337179m	17.505	ppbv	
17) tert-Butyl alcohol	2.043	59	3020m	0.143	ppbv	
19) Isopropyl Alcohol	1.887	45	1467264	126.716	ppbv #	37
20) Methylene Chloride	2.065	84	29189	4.730	ppbv	94
26) Hexane	2.829	57	42948	1.935	ppbv #	78
29) Chloroform	2.852	83	30052	1.036	ppbv	98
30) Cyclohexane	3.865	84	5562m	0.300	ppbv	
34) 2-Butanone	2.560	43	20748	0.697	ppbv	98
35) Carbon Tetrachloride	3.764	117	2167m	0.078	ppbv	
36) Benzene	3.661	78	21071	0.528	ppbv #	94
37) 1,2-Dichloroethane	3.217	62	4072	0.194	ppbv	98
44) 2,2,4-Trimethylpentane	4.645	57	20719m	0.301	ppbv	
52) Tetrachloroethene	8.231	164	605m	0.039	ppbv	
53) Toluene	6.933	91	89031m	1.885	ppbv	
58) Ethyl Benzene	9.357	91	18057	0.288	ppbv	99
59) m/p-Xylene	9.532	91	55110	1.116	ppbv #	100
60) o-Xylene	9.966	91	18333	0.371	ppbv	96
61) Styrene	9.872	104	4240m	0.182	ppbv	
74) 1,2,4-Trimethylbenzene	11.539	105	14343	0.259	ppbv #	64

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

Manual Integrations

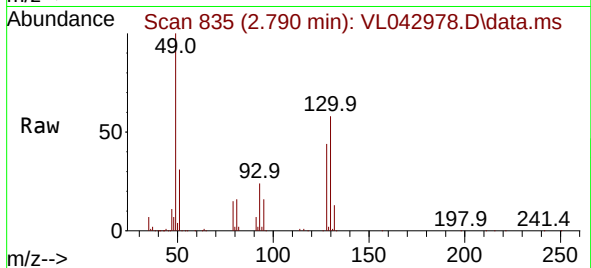
Quant Time: Sep 24 01:15:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 833
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

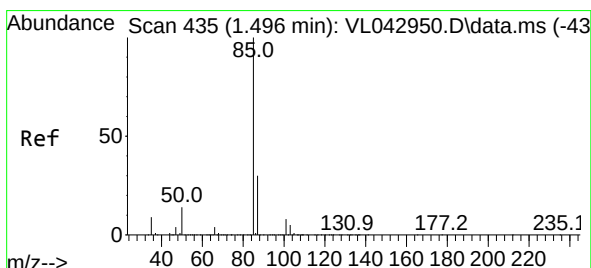
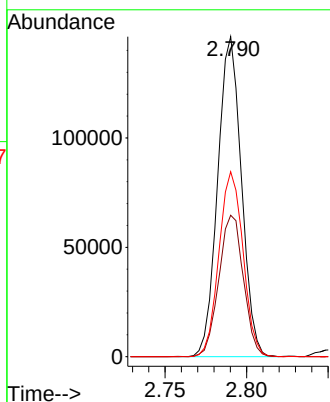
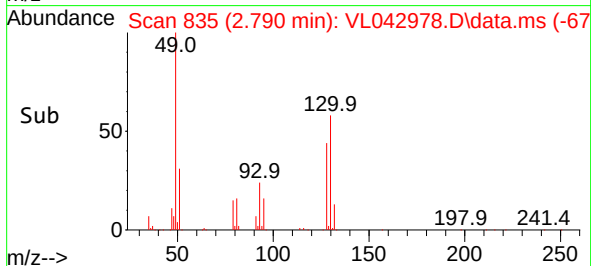
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1



Tgt Ion: 49 Resp: 147880
Ion Ratio Lower Upper
49 100
128 45.8 22.9 68.8
130 58.7 29.1 87.3

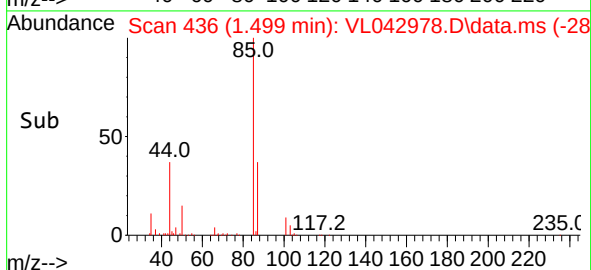
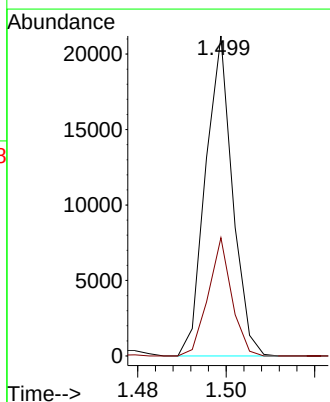
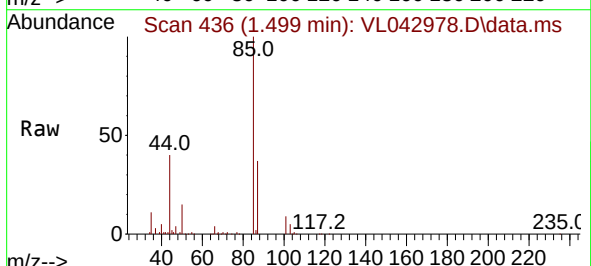
Manual Integrations
APPROVED

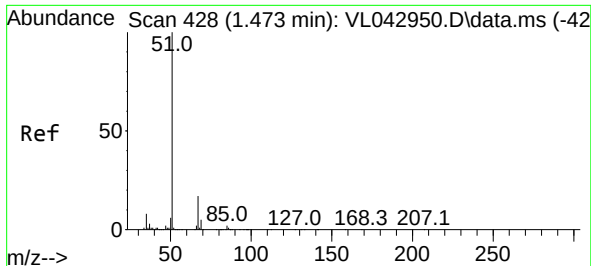
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#2
Dichlorodifluoromethane
Concen: 0.451 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

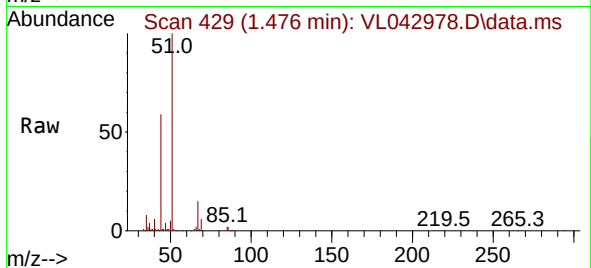
Tgt Ion: 85 Resp: 8962
Ion Ratio Lower Upper
85 100
87 37.0 24.3 36.5#





#3
Chlorodifluoromethane
Concen: 0.423 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

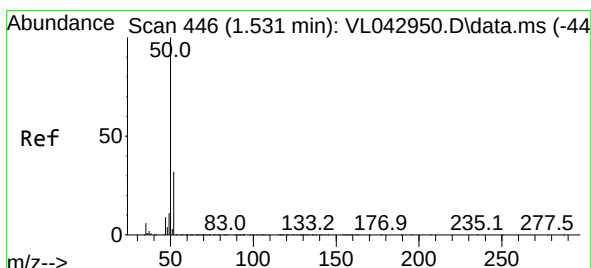
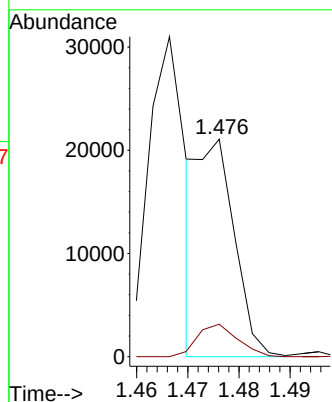
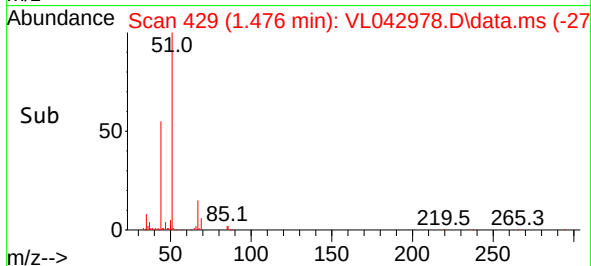
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1



Tgt Ion: 51 Resp: 10479
Ion Ratio Lower Upper
51 100
67 3.4 13.8 20.8

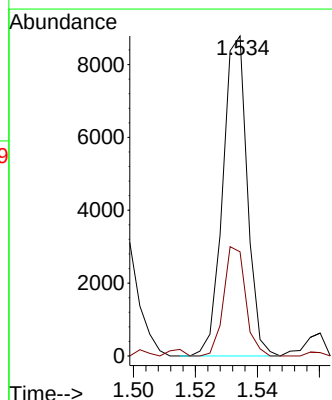
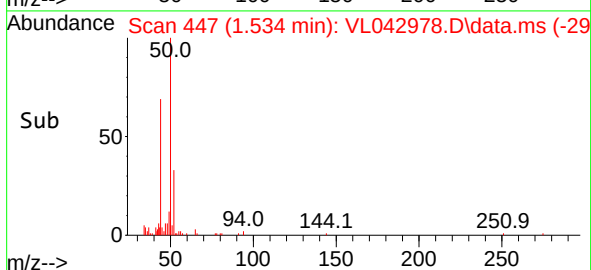
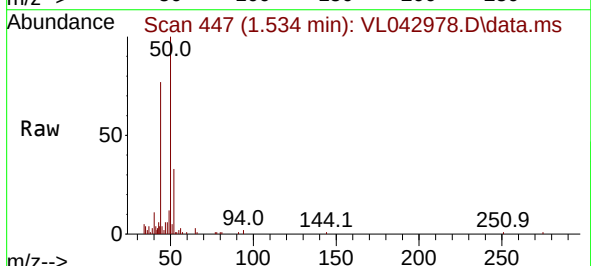
Manual Integrations
APPROVED

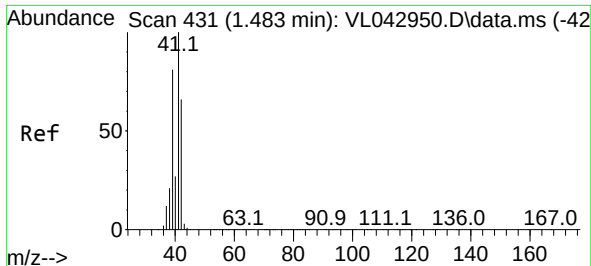
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#4
Chloromethane
Concen: 0.537 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

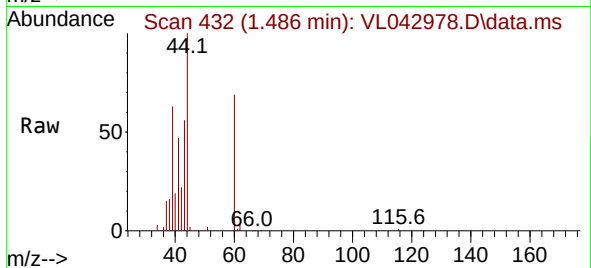
Tgt Ion: 50 Resp: 4832
Ion Ratio Lower Upper
50 100
52 32.6 25.9 38.9





#9
 Propene
 Concen: 0.579 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042978.D
 Acq: 23 Sep 2025 03:33

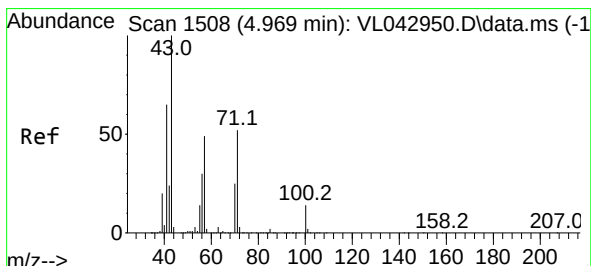
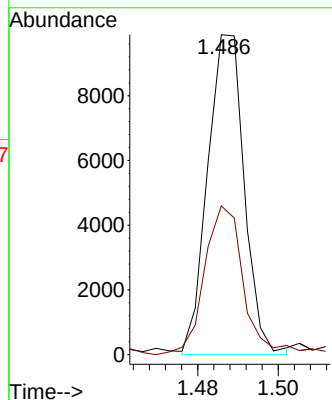
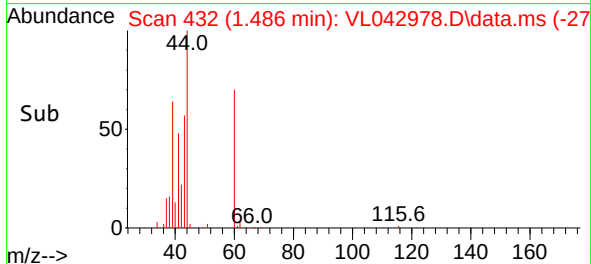
Instrument :
 MSVOA_L
 ClientSampleId :
 151-1A-1



Tgt Ion: 41 Resp: 624
 Ion Ratio Lower Upper
 41 100
 42 1414.2 57.4 86.2

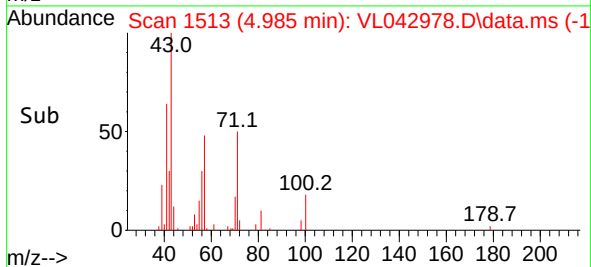
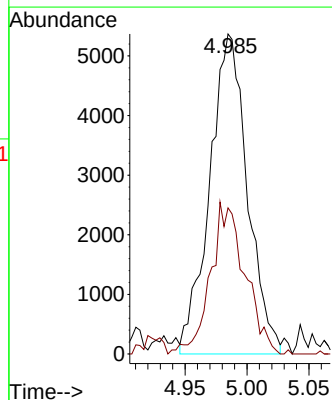
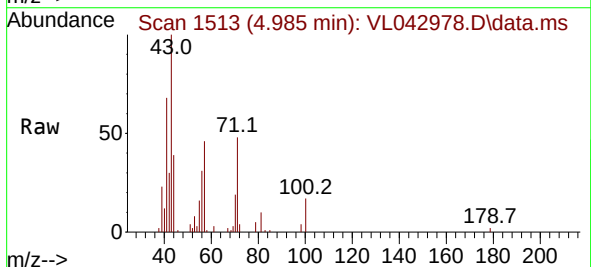
Manual Integrations
 APPROVED

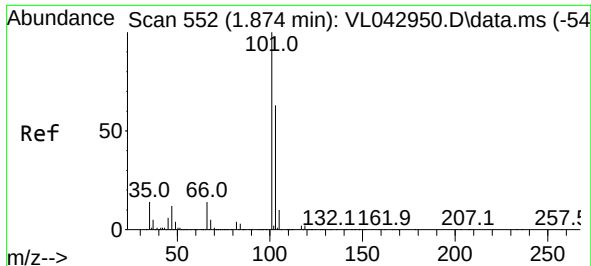
Reviewed By :Mahesh Dadoda 09/24/2025
 Supervised By :Semsettin Yesilyurt 09/24/2025



#10
 Heptane
 Concen: 0.397 ppbv
 RT: 4.985 min Scan# 1513
 Delta R.T. 0.016 min
 Lab File: VL042978.D
 Acq: 23 Sep 2025 03:33

Tgt Ion: 43 Resp: 11414
 Ion Ratio Lower Upper
 43 100
 57 43.2 38.6 57.8





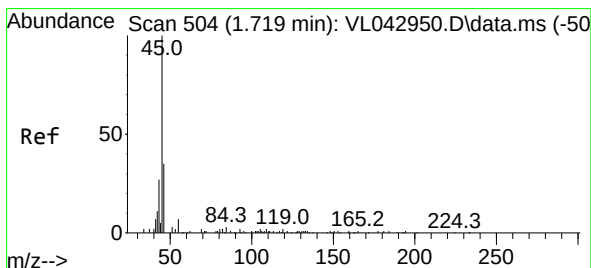
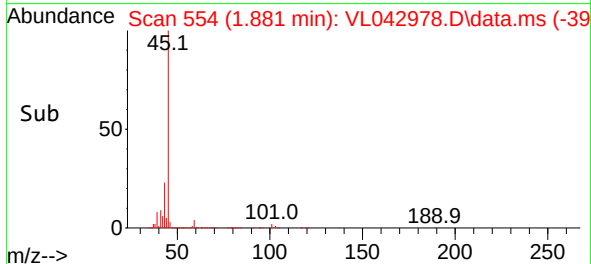
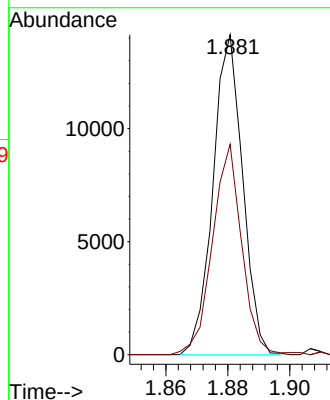
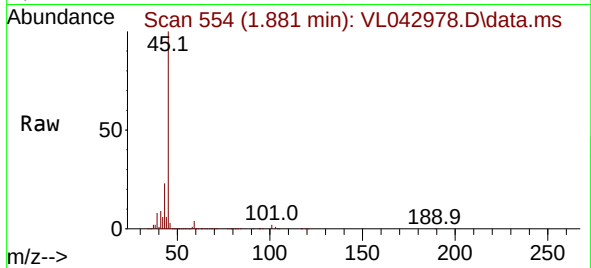
#11
Trichlorofluoromethane
Concen: 0.490 ppbv
RT: 1.881 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

Instrument :
MSVOA_L
ClientSampleId :
151-1A-1

Tgt Ion:101 Resp: 9400
Ion Ratio Lower Upper
101 100
103 65.1 50.1 75.1

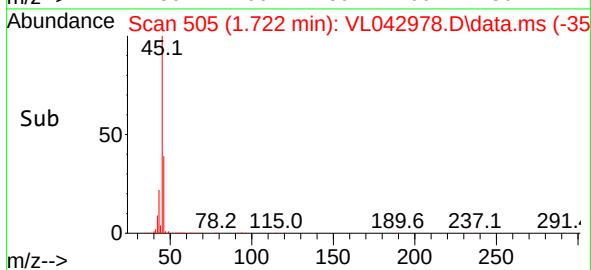
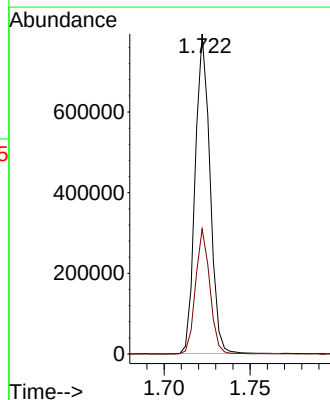
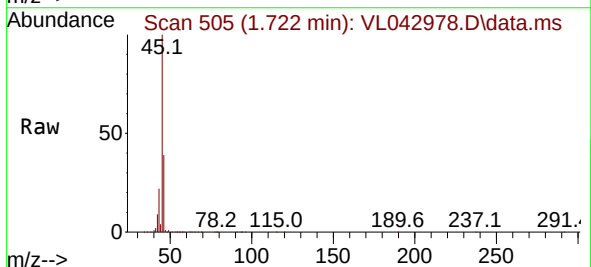
Manual Integrations
APPROVED

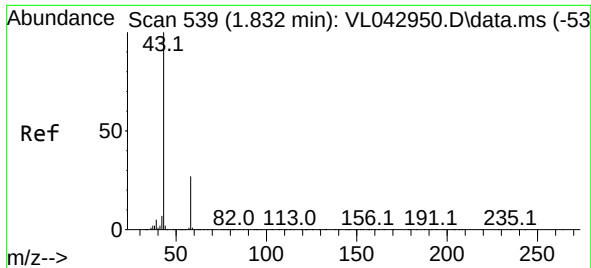
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#13
Ethanol
Concen: 453.376 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

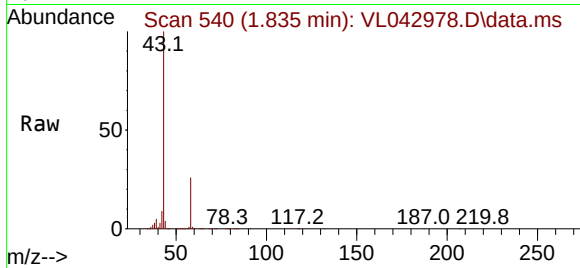
Tgt Ion: 45 Resp: 474338
Ion Ratio Lower Upper
45 100
46 38.1 16.2 64.6





#15
Acetone
Concen: 17.505 ppbv m
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

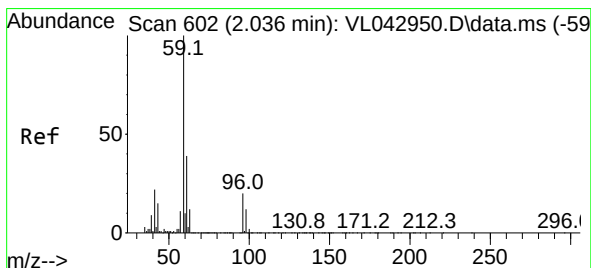
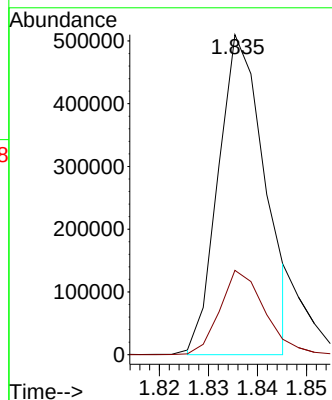
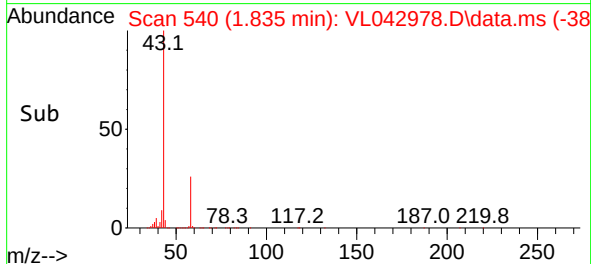
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1



Tgt Ion: 43 Resp: 337179
Ion Ratio Lower Upper
43 100
58 25.6 22.3 33.5

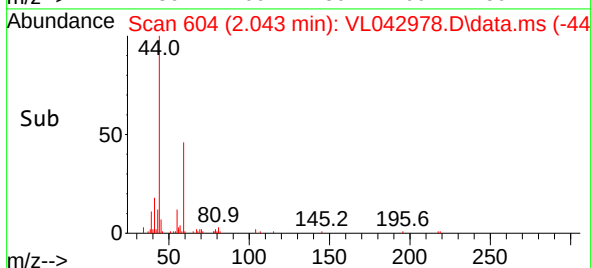
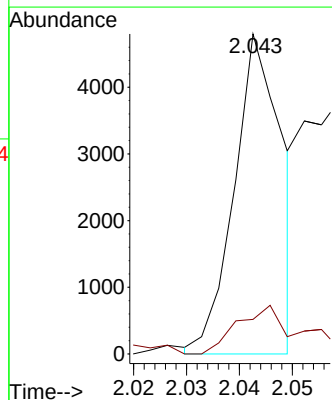
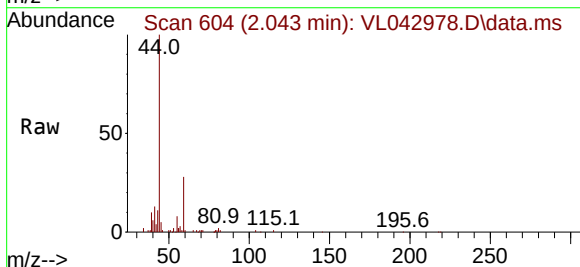
Manual Integrations
APPROVED

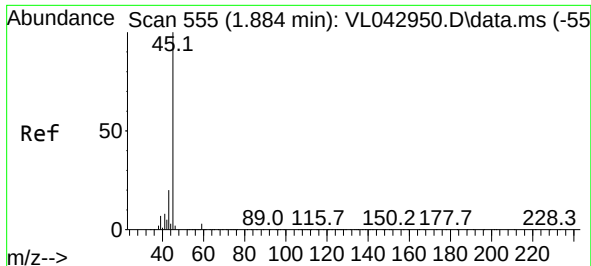
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#17
tert-Butyl alcohol
Concen: 0.143 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

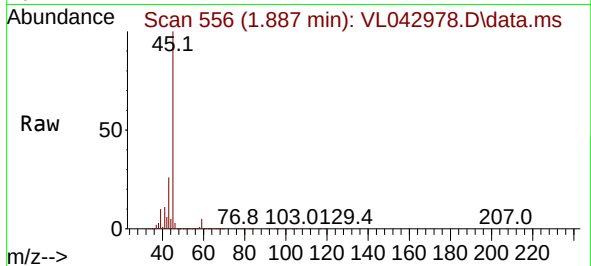
Tgt Ion: 59 Resp: 3020
Ion Ratio Lower Upper
59 100
57 190.8 8.6 12.8#





#19
Isopropyl Alcohol
Concen: 126.716 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

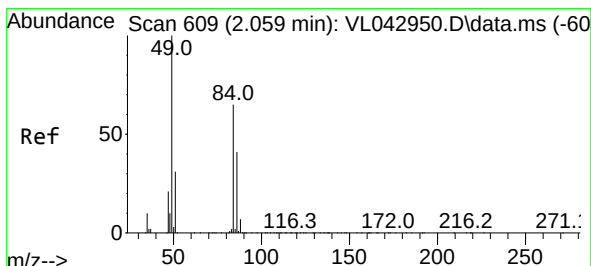
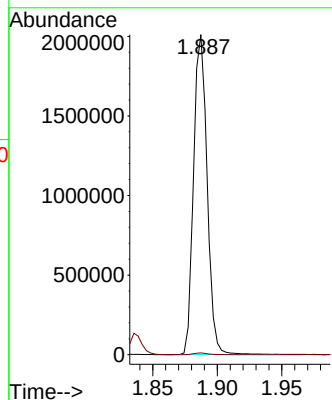
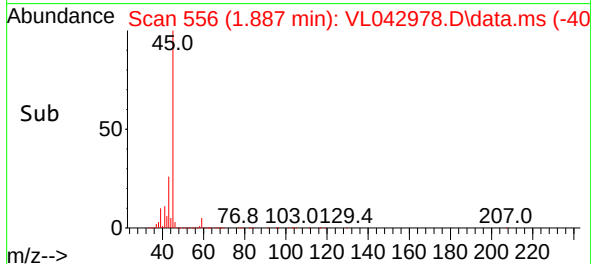
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1



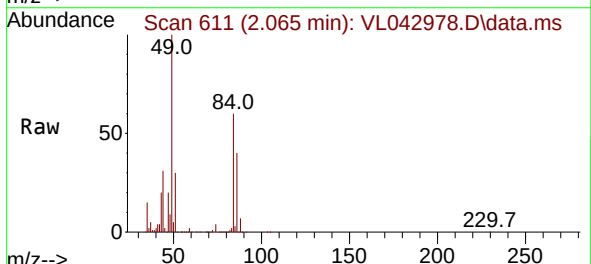
Tgt Ion: 45 Resp: 1467264
Ion Ratio Lower Upper
45 100
58 0.6 31.0 46.6

Manual Integrations
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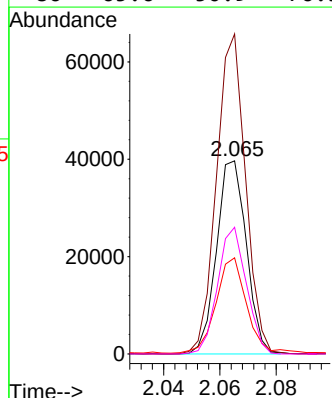
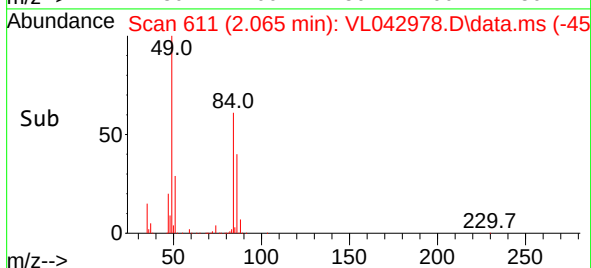
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025

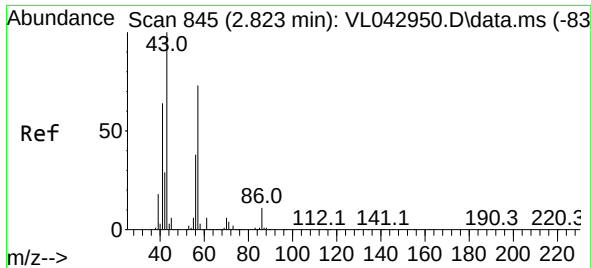


#20
Methylene Chloride
Concen: 4.730 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33



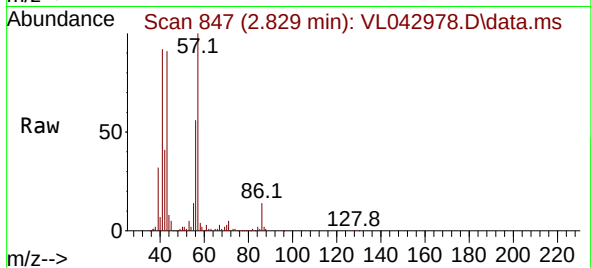
Tgt Ion: 84 Resp: 29189
Ion Ratio Lower Upper
84 100
49 165.4 124.1 186.1
51 48.5 39.8 59.8
86 65.6 50.9 76.3





#26
Hexane
Concen: 1.935 ppbv
RT: 2.829 min Scan# 845
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

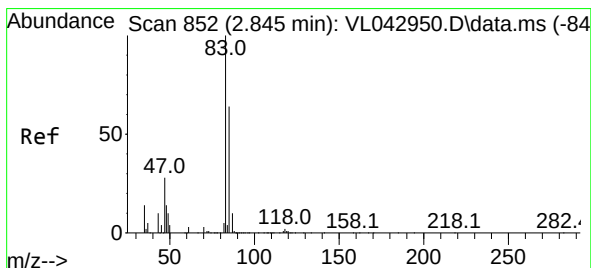
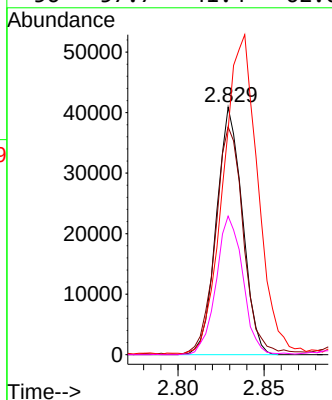
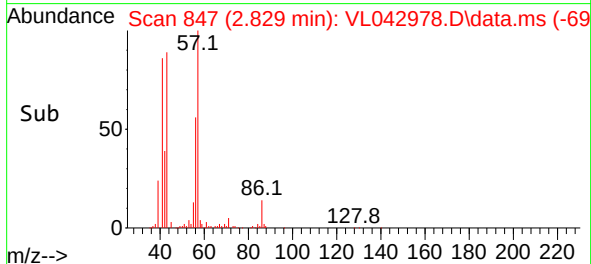
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1



Tgt Ion: 57 Resp: 42948
Ion Ratio Lower Upper
57 100
41 100.5 71.7 107.5
43 177.6 180.8 271.2
56 57.7 41.4 62.0

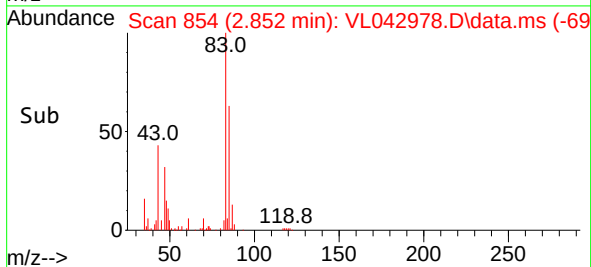
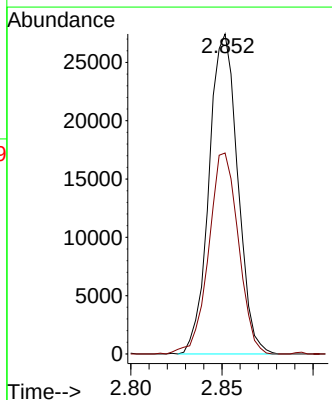
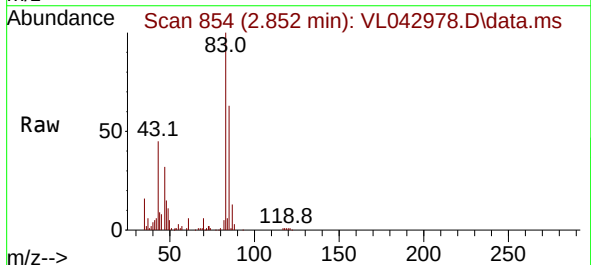
Manual Integrations
APPROVED

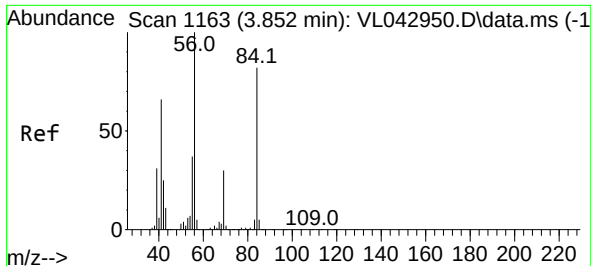
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#29
Chloroform
Concen: 1.036 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

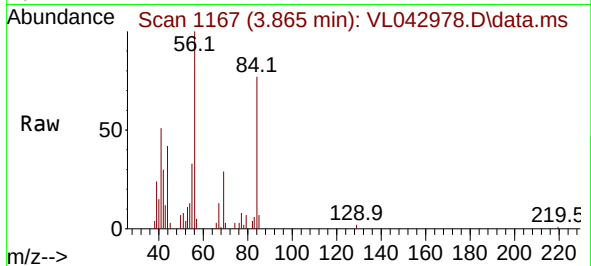
Tgt Ion: 83 Resp: 30052
Ion Ratio Lower Upper
83 100
85 62.8 51.2 76.8





#30
Cyclohexane
Concen: 0.300 ppbv m
RT: 3.865 min Scan# 1163
Delta R.T. 0.013 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

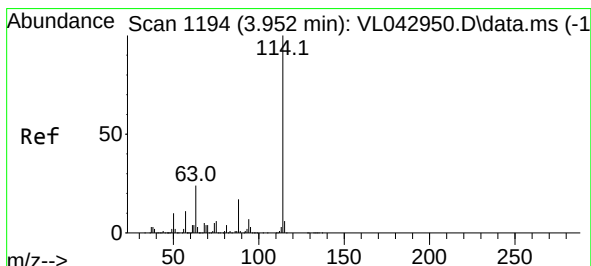
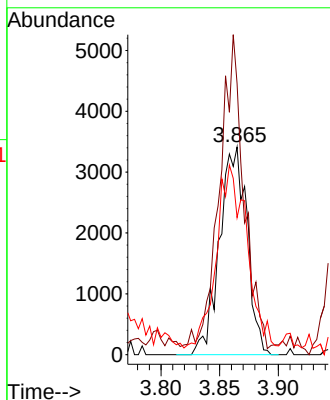
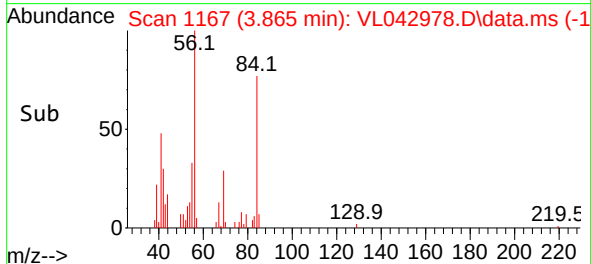
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1



Tgt Ion: 84 Resp: 5562
Ion Ratio Lower Upper
84 100
56 147.9 102.2 153.4
41 100.1 65.6 98.4

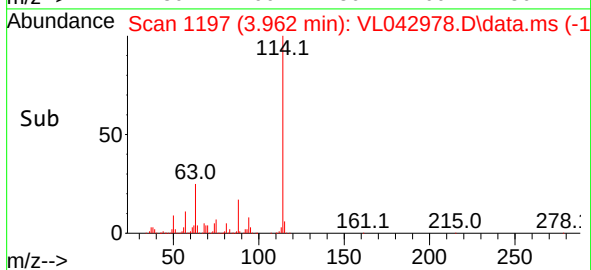
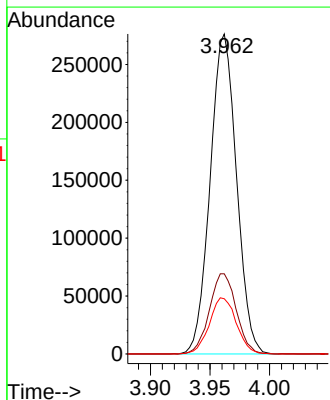
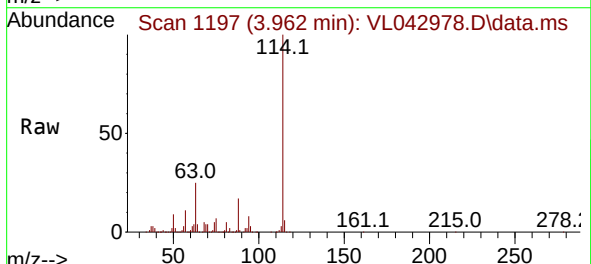
Manual Integrations
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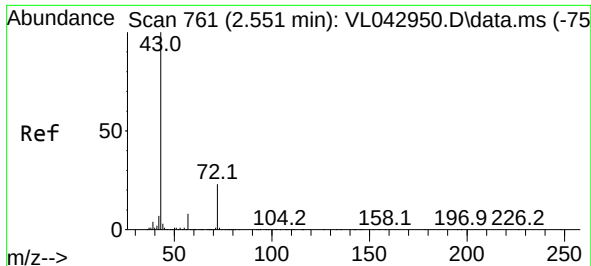
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.010 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

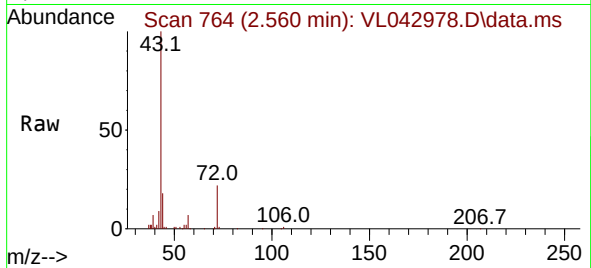
Tgt Ion:114 Resp: 425027
Ion Ratio Lower Upper
114 100
63 25.5 19.4 29.2
88 18.0 14.2 21.2





#34
2-Butanone
Concen: 0.697 ppbv
RT: 2.560 min Scan# 761
Delta R.T. 0.010 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

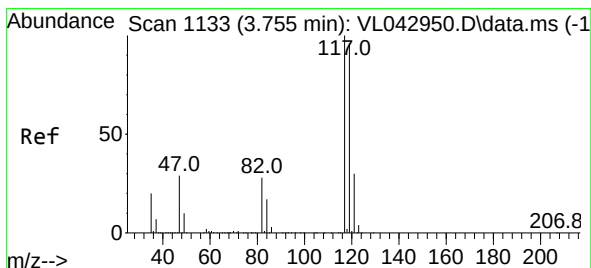
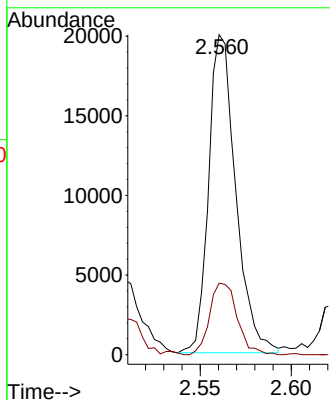
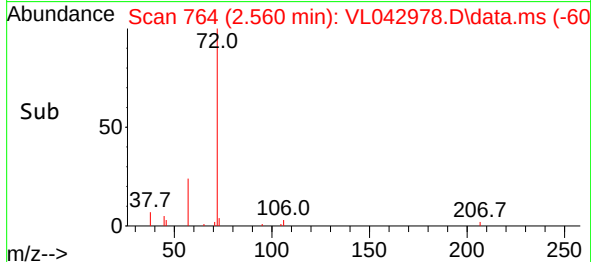
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1



Tgt Ion: 43 Resp: 20748
Ion Ratio Lower Upper
43 100
72 22.9 17.7 26.5

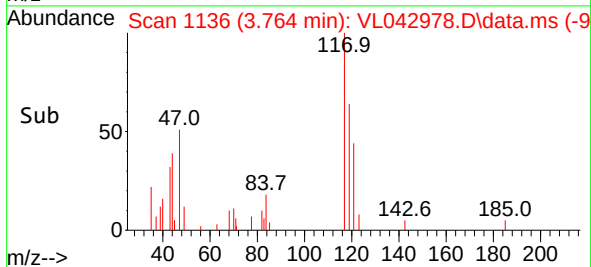
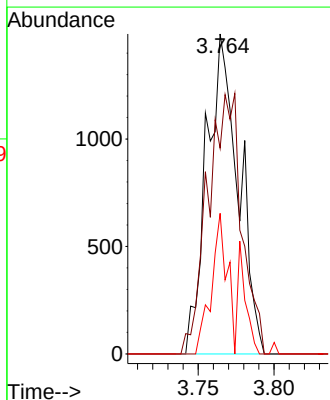
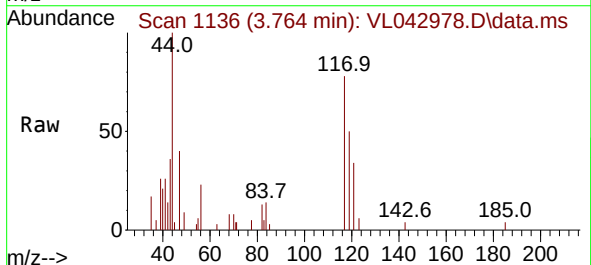
Manual Integrations
APPROVED

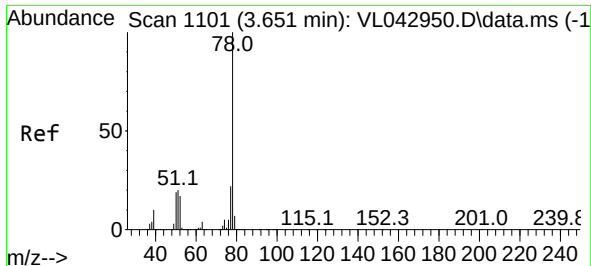
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#35
Carbon Tetrachloride
Concen: 0.078 ppbv m
RT: 3.764 min Scan# 1136
Delta R.T. 0.010 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

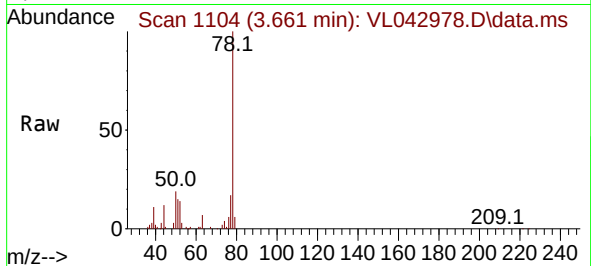
Tgt Ion:117 Resp: 2167
Ion Ratio Lower Upper
117 100
119 64.3 76.9 115.3#
121 43.9 23.7 35.5#





#36
Benzene
Concen: 0.528 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.010 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

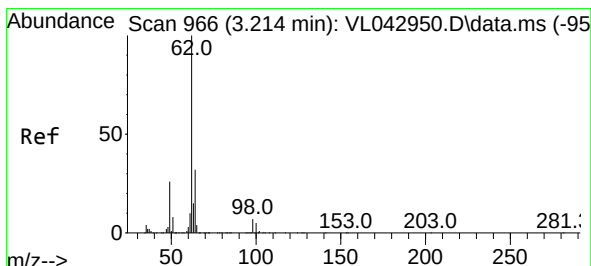
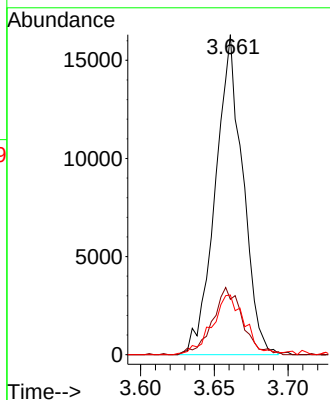
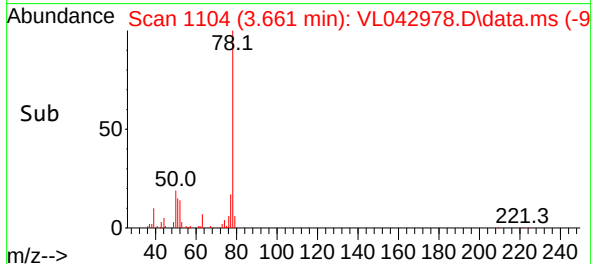
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1



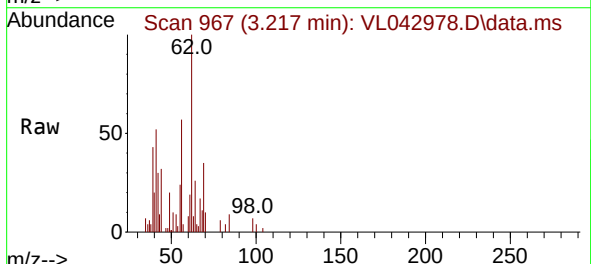
Tgt Ion: 78 Resp: 21072
Ion Ratio Lower Upper
78 100
77 17.4 17.8 26.6
50 18.3 15.0 22.4

Manual Integrations
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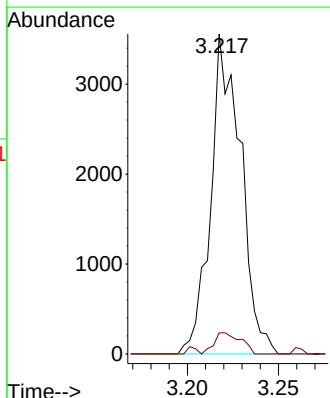
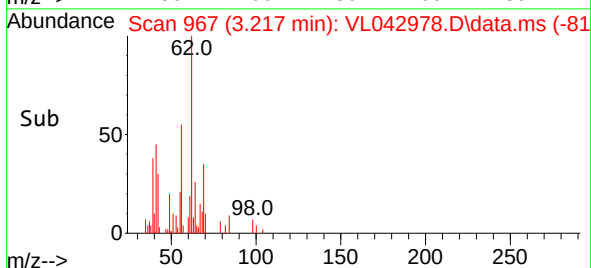
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025

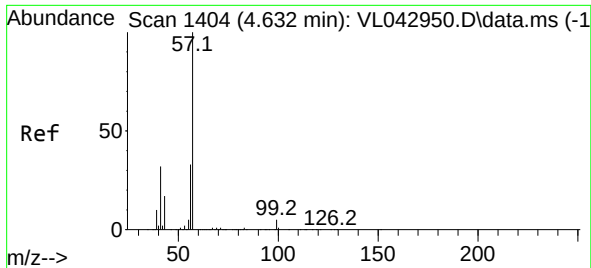


#37
1,2-Dichloroethane
Concen: 0.194 ppbv
RT: 3.217 min Scan# 967
Delta R.T. 0.003 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33



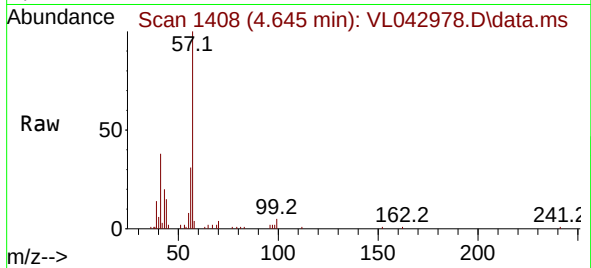
Tgt Ion: 62 Resp: 4072
Ion Ratio Lower Upper
62 100
98 6.6 5.9 8.9





#44
2,2,4-Trimethylpentane
Concen: 0.301 ppbv m
RT: 4.645 min Scan# 1404
Delta R.T. 0.013 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

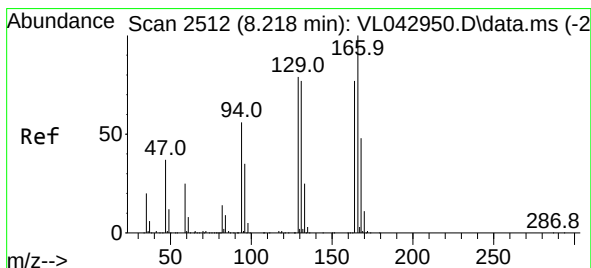
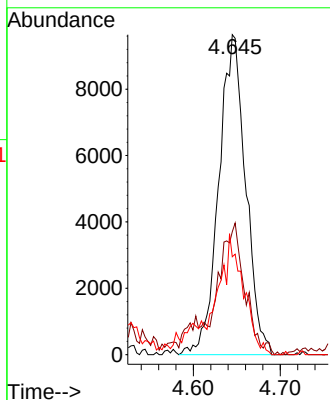
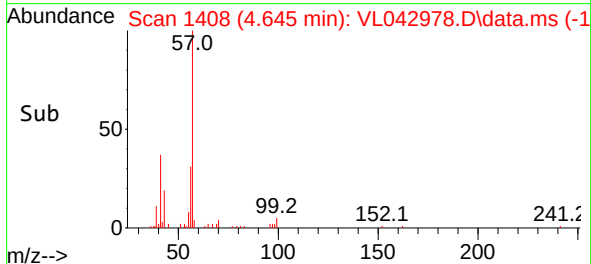
Instrument : MSVOA_1
ClientSampleId : 151-1A-1



Tgt Ion: 57 Resp: 20719
Ion Ratio Lower Upper
57 100
41 49.1 25.5 38.3
56 43.2 25.8 38.8

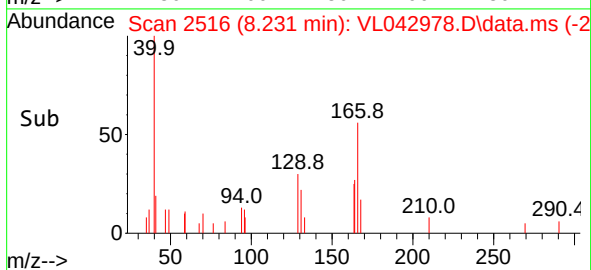
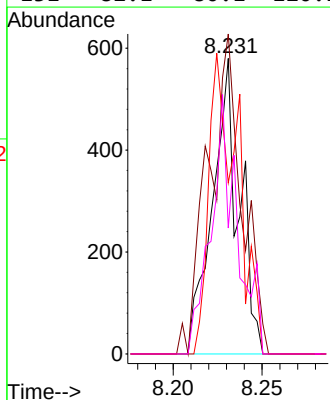
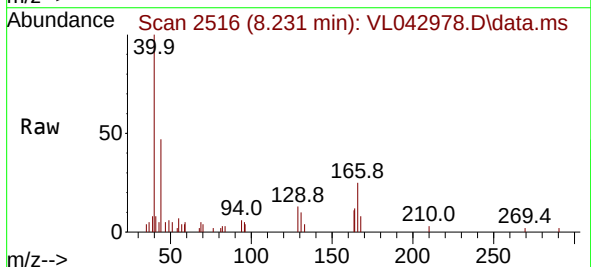
Manual Integrations
APPROVED

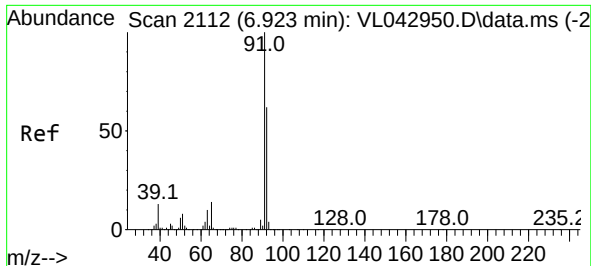
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#52
Tetrachloroethene
Concen: 0.039 ppbv m
RT: 8.231 min Scan# 2516
Delta R.T. 0.013 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

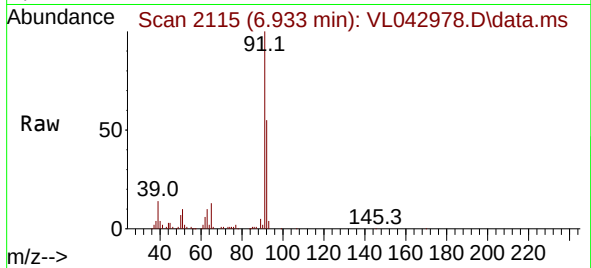
Tgt Ion:164 Resp: 605
Ion Ratio Lower Upper
164 100
166 208.6 103.5 155.3
129 111.6 82.2 123.4
131 82.1 80.1 120.1





#53
Toluene
Concen: 1.885 ppbv m
RT: 6.933 min Scan# 2112
Delta R.T. 0.010 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

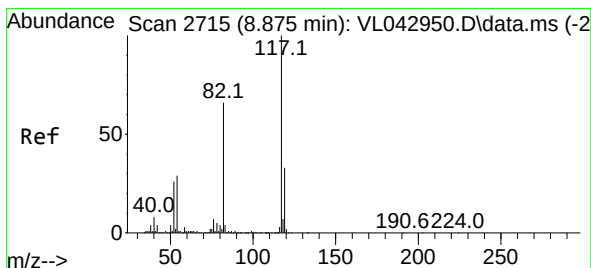
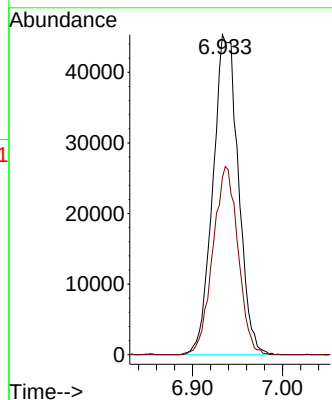
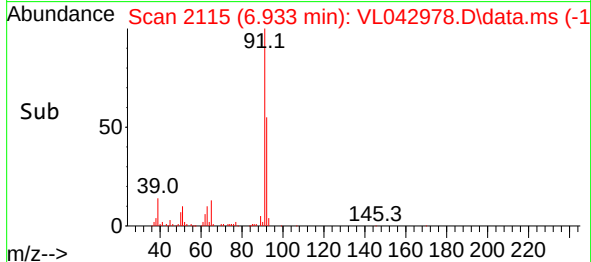
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1



Tgt Ion: 91 Resp: 8903
Ion Ratio Lower Upper
91 100
92 58.1 48.2 72.2

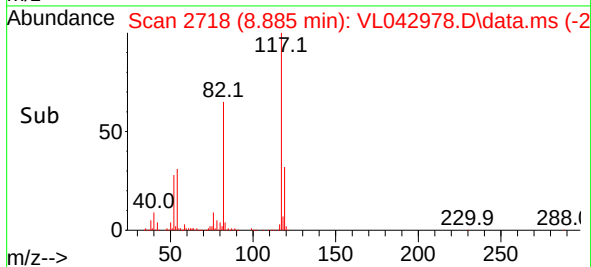
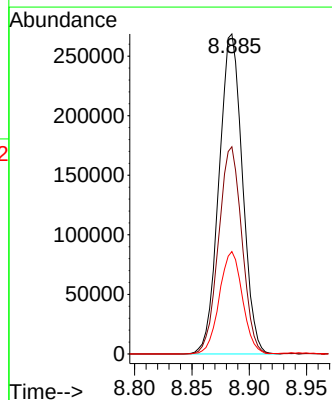
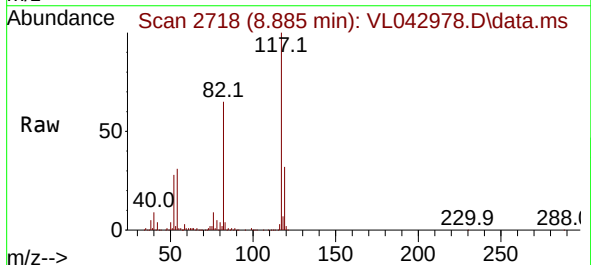
Manual Integrations
APPROVED

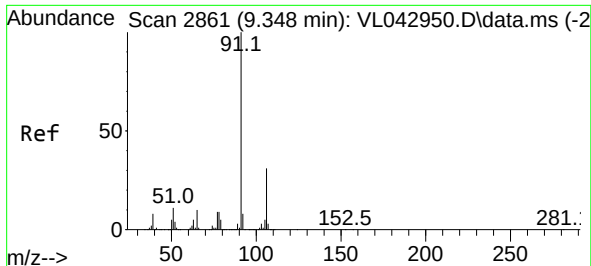
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.010 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

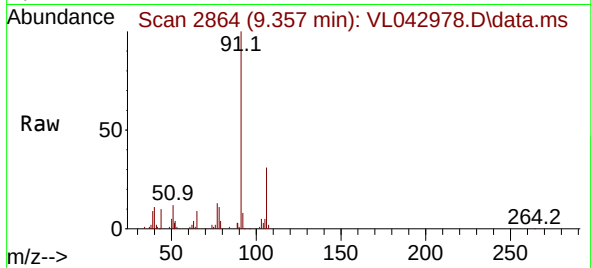
Tgt Ion:117 Resp: 381413
Ion Ratio Lower Upper
117 100
82 64.8 52.8 79.2
119 31.7 26.5 39.7





#58
Ethyl Benzene
Concen: 0.288 ppbv
RT: 9.357 min Scan# 2185
Delta R.T. 0.010 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

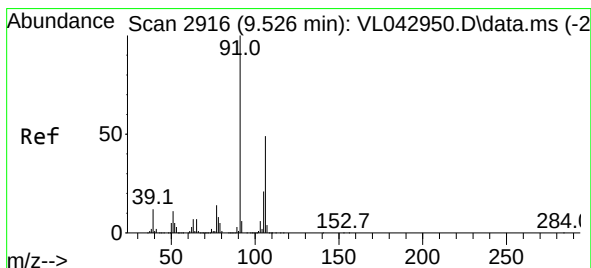
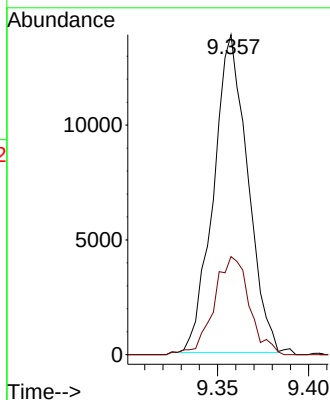
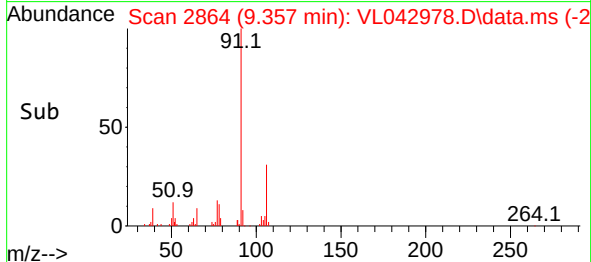
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1



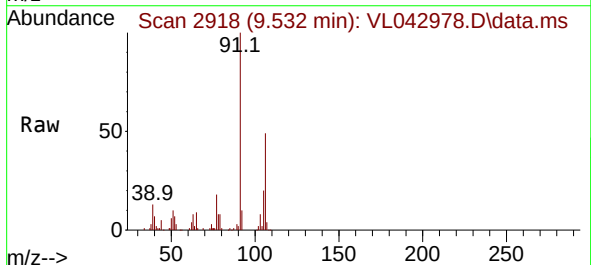
Tgt Ion: 91 Resp: 1805
Ion Ratio Lower Upper
91 100
106 30.1 24.6 37.0

Manual Integrations
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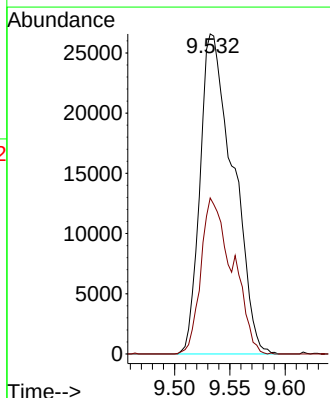
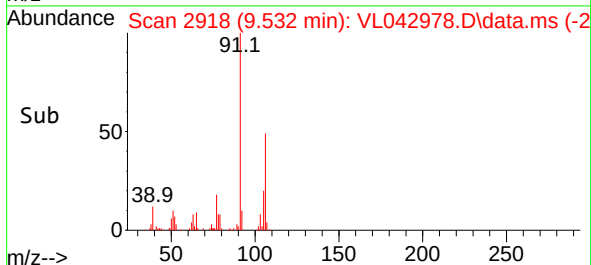
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025

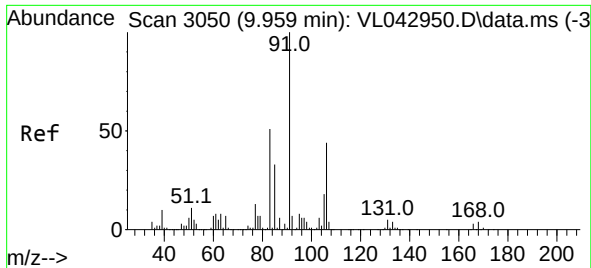


#59
m/p-Xylene
Concen: 1.116 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33



Tgt Ion: 91 Resp: 55110
Ion Ratio Lower Upper
91 100
106 46.7 0.0 0.0#





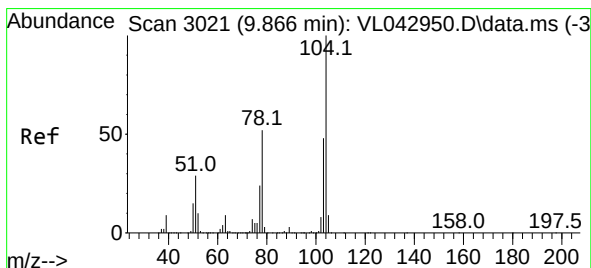
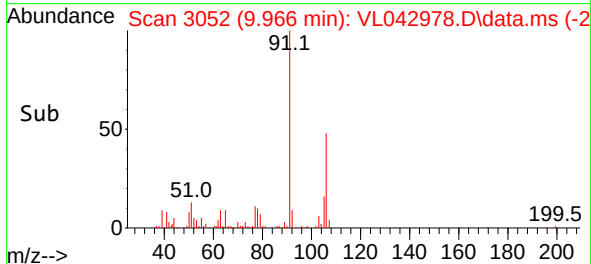
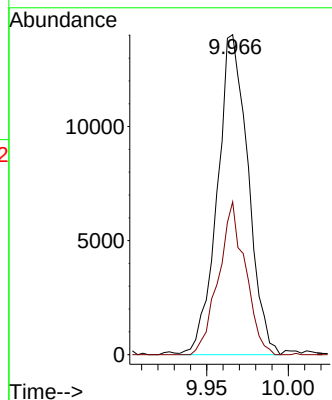
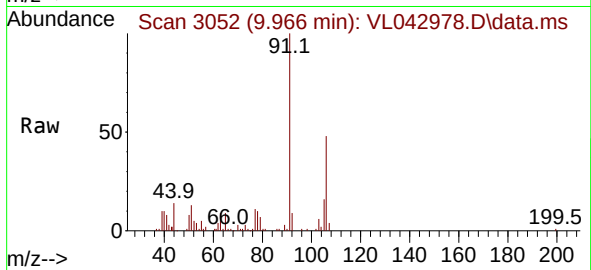
#60
o-Xylene
Concen: 0.371 ppbv
RT: 9.966 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

Instrument :
MSVOA_L
ClientSampleId :
151-1A-1

Tgt Ion: 91 Resp: 1833
Ion Ratio Lower Upper
91 100
106 41.8 22.4 67.0

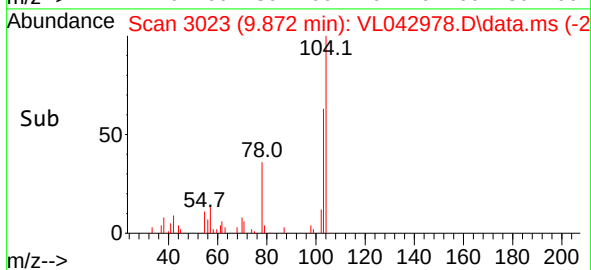
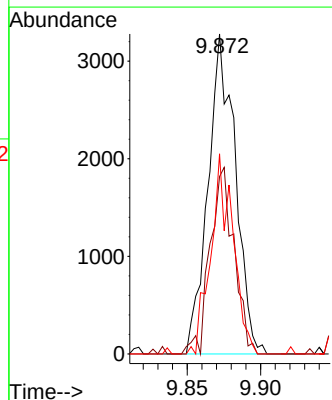
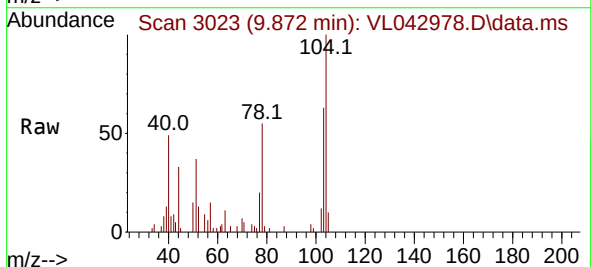
Manual Integrations
APPROVED

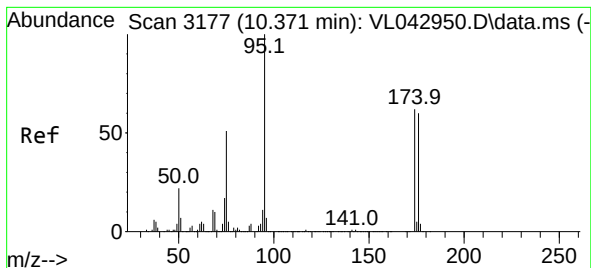
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#61
Styrene
Concen: 0.182 ppbv m
RT: 9.872 min Scan# 3023
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

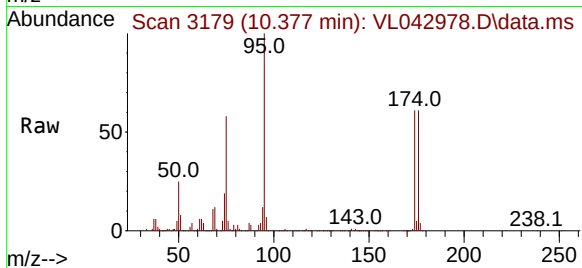
Tgt Ion:104 Resp: 4240
Ion Ratio Lower Upper
104 100
78 51.8 39.9 59.9
103 0.0 36.9 55.3#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.277 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

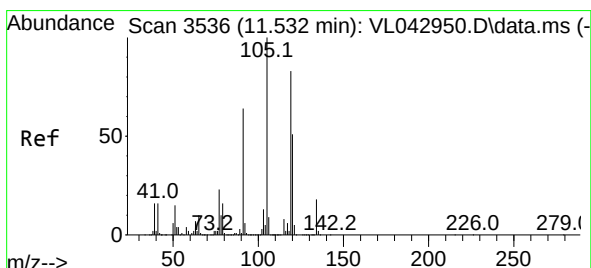
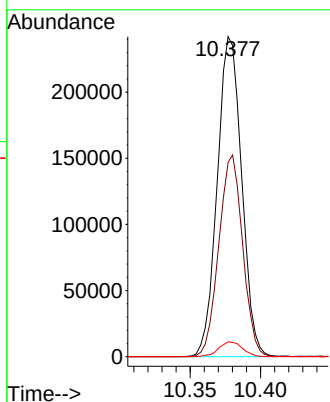
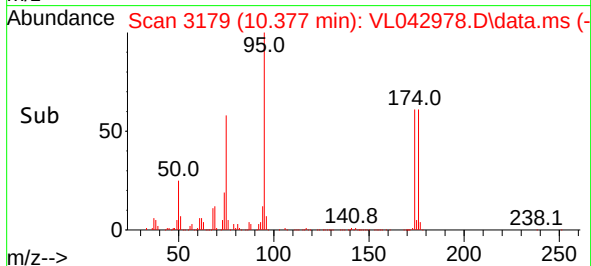
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1



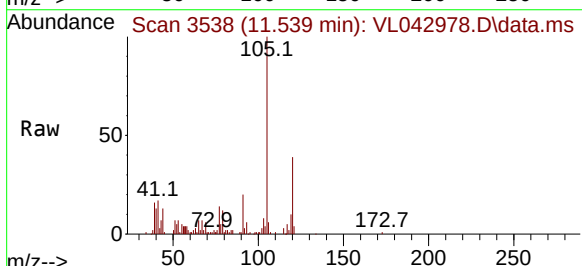
Tgt Ion: 95 Resp: 292609
Ion Ratio Lower Upper
95 100
174 61.5 51.4 77.2
175 4.5 4.0 6.0

Manual Integrations
APPROVED

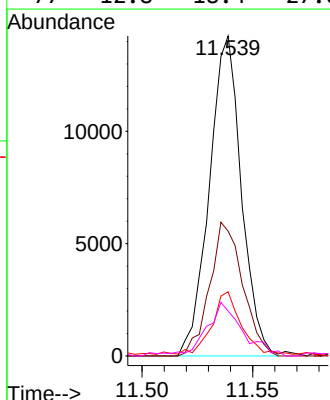
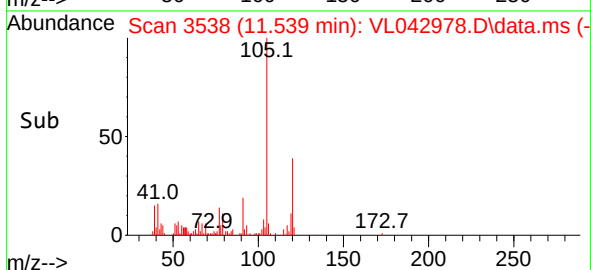
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.259 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33



Tgt Ion:105 Resp: 14343
Ion Ratio Lower Upper
105 100
120 39.0 40.9 61.3#
91 19.4 51.2 76.8#
77 12.8 18.4 27.6#



Report of Analysis

Client:	RTP Environmental	Date Collected:	09/17/25
Project:	CHADWICK SQUARE	Date Received:	09/17/25
Client Sample ID:	151-1A-1DL	SDG No.:	Q3132
Lab Sample ID:	Q3132-01DL	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
VL042979.D	10		09/23/25 04:08	VL092225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	5.44	UD	5.44	24.7
74-87-3	Chloromethane	0.98	2.02	UD	2.02	10.3
75-01-4	Vinyl Chloride	0.25	0.64	UD	0.64	0.77
74-83-9	Bromomethane	0.77	2.99	UD	2.99	19.4
75-00-3	Chloroethane	1.50	3.96	UD	3.96	13.2
109-99-9	Tetrahydrofuran	0.80	2.36	UD	2.36	14.8
75-69-4	Trichlorofluoromethane	1.70	9.55	UD	9.55	28.1
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	10.7	UD	10.7	38.3
76-14-2	Dichlorotetrafluoroethane	1.50	10.5	UD	10.5	35.0
75-65-0	tert-Butyl alcohol	1.60	4.85	UD	4.85	15.2
142-82-5	Heptane	1.70	6.97	UD	6.97	20.5
75-35-4	1,1-Dichloroethene	1.50	5.95	UD	5.95	19.8
67-64-1	Acetone	18.8	44.7	D	4.28	11.9
75-15-0	Carbon Disulfide	0.80	2.49	UD	2.49	15.6
1634-04-4	Methyl tert-Butyl Ether	2.30	8.29	UD	8.29	18.0
75-09-2	Methylene Chloride	2.30	7.99	UD	7.99	17.4
156-60-5	trans-1,2-Dichloroethene	1.20	4.76	UD	4.76	19.8
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	5.26	20.2
110-82-7	Cyclohexane	2.20	7.57	UD	7.57	17.2
78-93-3	2-Butanone	0.56	1.65	UD	1.65	14.8
56-23-5	Carbon Tetrachloride	0.25	1.57	UD	1.57	1.89
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	UD	3.93	19.8
67-66-3	Chloroform	1.10	5.37	JD	4.69	24.4
71-55-6	1,1,1-Trichloroethane	0.16	0.87	UD	0.87	1.64
540-84-1	2,2,4-Trimethylpentane	1.40	6.54	UD	6.54	23.4
71-43-2	Benzene	0.79	2.52	UD	2.52	16.0
107-06-2	1,2-Dichloroethane	0.93	3.76	UD	3.76	20.2
79-01-6	Trichloroethene	0.24	1.29	UD	1.29	1.61
78-87-5	1,2-Dichloropropane	1.30	6.01	UD	6.01	23.1
75-27-4	Bromodichloromethane	0.63	4.22	UD	4.22	33.5
108-10-1	4-Methyl-2-Pentanone	0.97	3.98	UD	3.98	20.5
108-88-3	Toluene	1.70	6.41	JD	6.03	18.8
10061-02-6	t-1,3-Dichloropropene	1.50	6.81	UD	6.81	22.7
10061-01-5	cis-1,3-Dichloropropene	1.10	4.99	UD	4.99	22.7
79-00-5	1,1,2-Trichloroethane	0.81	4.42	UD	4.42	27.3

Report of Analysis

Client:	RTP Environmental	Date Collected:	09/17/25
Project:	CHADWICK SQUARE	Date Received:	09/17/25
Client Sample ID:	151-1A-1DL	SDG No.:	Q3132
Lab Sample ID:	Q3132-01DL	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
VL042979.D	10		09/23/25 04:08	VL092225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
124-48-1	Dibromochloromethane	0.85	7.24	UD	7.24	42.6
106-93-4	1,2-Dibromoethane	0.85	6.53	UD	6.53	7.69
127-18-4	Tetrachloroethene	0.15	1.02	UD	1.02	2.03
108-90-7	Chlorobenzene	0.77	3.55	UD	3.55	23.0
100-41-4	Ethyl Benzene	1.90	8.25	UD	8.25	21.7
179601-23-1	m/p-Xylene	4.10	17.8	UD	17.8	43.4
95-47-6	o-Xylene	2.10	9.12	UD	9.12	21.7
100-42-5	Styrene	1.60	6.81	UD	6.81	21.3
75-25-2	Bromoform	0.48	4.96	UD	4.96	51.7
79-34-5	1,1,2,2-Tetrachloroethane	0.18	1.24	UD	1.24	2.06
95-49-8	2-Chlorotoluene	1.70	8.80	UD	8.80	25.9
108-67-8	1,3,5-Trimethylbenzene	1.80	8.85	UD	8.85	24.6
95-63-6	1,2,4-Trimethylbenzene	1.80	8.85	UD	8.85	24.6
541-73-1	1,3-Dichlorobenzene	0.54	3.25	UD	3.25	30.1
106-46-7	1,4-Dichlorobenzene	1.30	7.82	UD	7.82	30.1
95-50-1	1,2-Dichlorobenzene	1.30	7.82	UD	7.82	30.1
120-82-1	1,2,4-Trichlorobenzene	2.10	15.6	UD	15.6	37.1
87-68-3	Hexachloro-1,3-Butadiene	1.30	13.9	UD	13.9	53.3
106-99-0	1,3-Butadiene	0.51	1.13	UD	1.13	11.1
91-20-3	Naphthalene	0.13	0.68	UD	0.68	5.24
622-96-8	4-Ethyltoluene	2.10	10.3	UD	10.3	24.6
110-54-3	Hexane	2.00	7.05	JD	5.64	17.6
107-05-1	Allyl Chloride	1.10	3.44	UD	3.44	15.7
123-91-1	1,4-Dioxane	2.20	7.93	UD	7.93	18.0
80-62-6	Methyl Methacrylate	1.40	5.73	UD	5.73	20.5
SURROGATES						
460-00-4	1-Bromo-4-Fluorobenzene	10.3			70 (65) - 130 (135)	103% SPK: 10
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	150000		2.79		
540-36-3	1,4-Difluorobenzene	425000		3.965		
3114-55-4	Chlorobenzene-d5	372000		8.885		

Report of Analysis

Client:	RTP Environmental	Date Collected:	09/17/25
Project:	CHADWICK SQUARE	Date Received:	09/17/25
Client Sample ID:	151-1A-1DL	SDG No.:	Q3132
Lab Sample ID:	Q3132-01DL	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
VL042979.D	10		09/23/25 04:08	VL092225

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

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\VL092225\
 Data File : VL042979.D
 Acq On : 23 Sep 2025 04:08
 Operator : SY/MD
 Sample : Q3132-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-1A-1DL

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/24/2025
 Supervised By :Semsettin Yesilyurt 09/24/2025

Quant Time: Sep 24 01:15:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	150287	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	424605	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	372157	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	285913	10.292	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.900%
Target Compounds						
13) Ethanol	1.725	45	50434	47.435	ppbv	95
15) Acetone	1.839	43	36864m	1.883	ppbv	
19) Isopropyl Alcohol	1.887	45	178860	15.200	ppbv #	38
20) Methylene Chloride	2.065	84	4978	0.196	ppbv	96
26) Hexane	2.832	57	4418	0.196	ppbv #	72
29) Chloroform	2.852	83	3102	0.105	ppbv	84
53) Toluene	6.940	91	8013	0.170	ppbv	95
59) m/p-Xylene	9.539	91	4823m	0.100	ppbv	

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

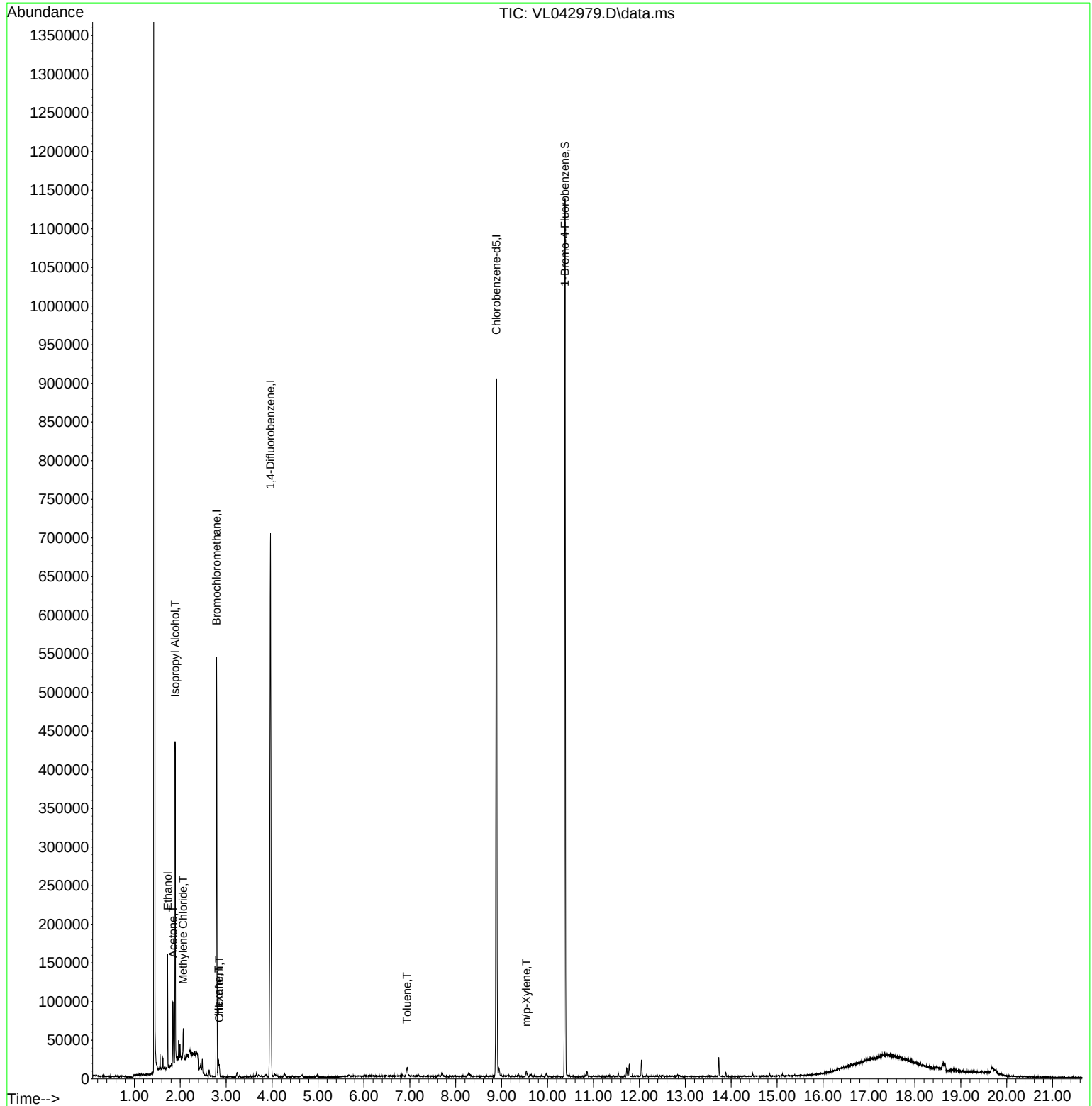
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042979.D
Acq On : 23 Sep 2025 04:08
Operator : SY/MD
Sample : Q3132-01DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

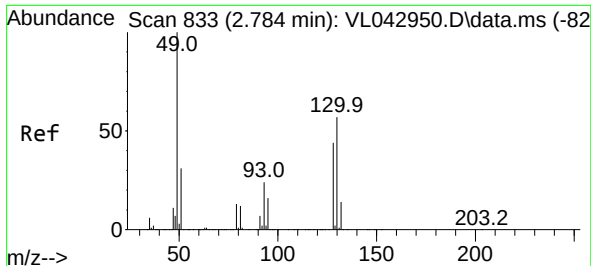
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1DL

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025

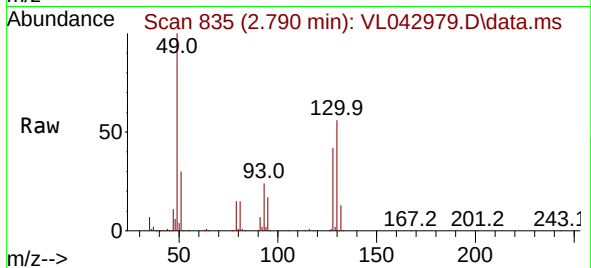
Quant Time: Sep 24 01:15:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

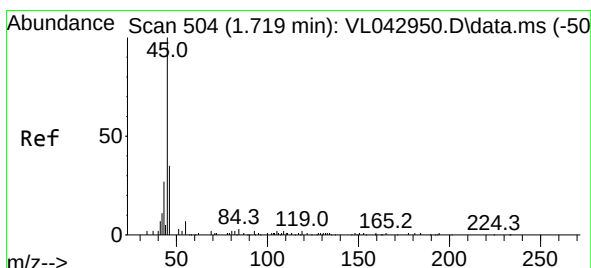
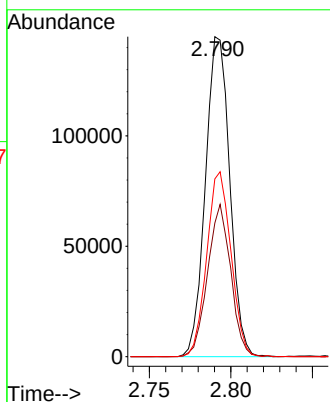
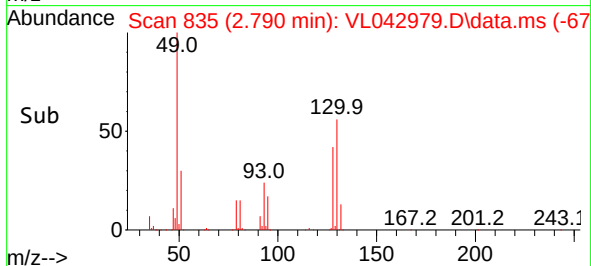
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1DL



Tgt Ion: 49 Resp: 15028
Ion Ratio Lower Upper
49 100
128 45.4 22.9 68.8
130 57.6 29.1 87.3

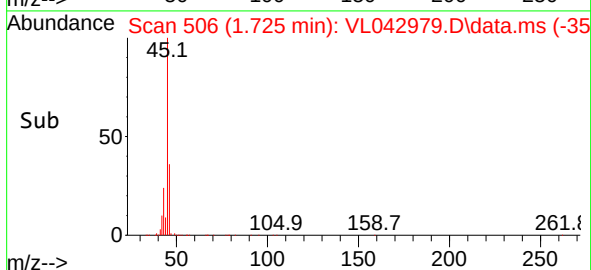
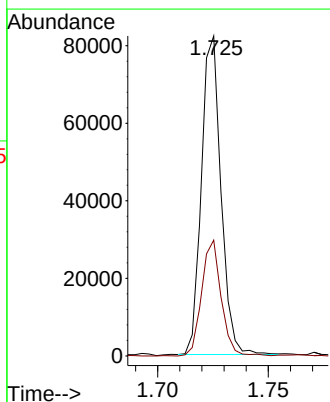
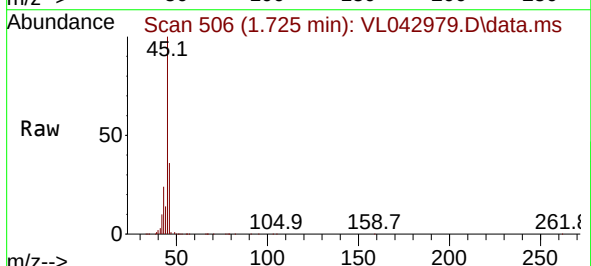
Manual Integrations
APPROVED

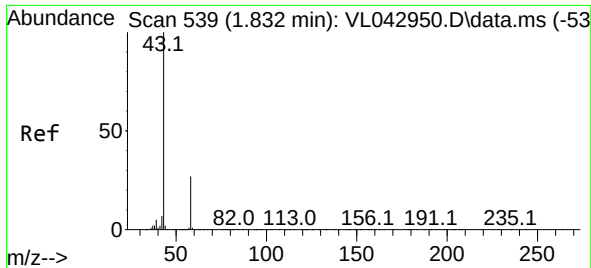
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#13
Ethanol
Concen: 47.435 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Tgt Ion: 45 Resp: 50434
Ion Ratio Lower Upper
45 100
46 37.4 16.2 64.6





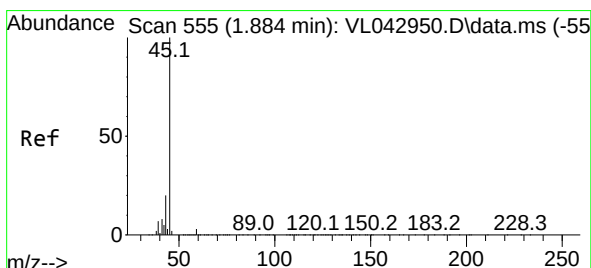
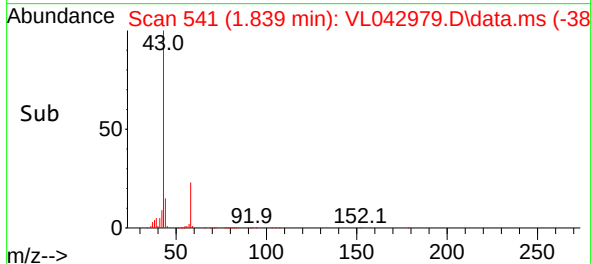
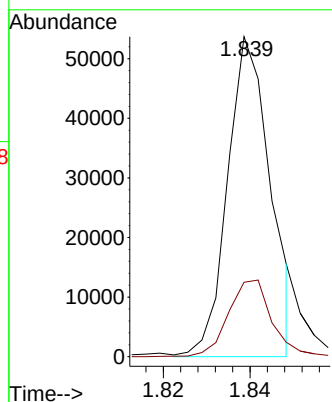
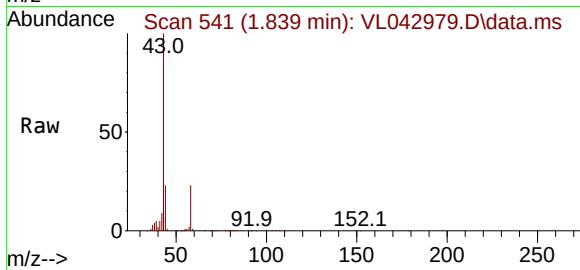
#15
Acetone
Concen: 1.883 ppbv m
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Instrument :
MSVOA_L
ClientSampleId :
151-1A-1DL

Tgt Ion: 43 Resp: 36864
Ion Ratio Lower Upper
43 100
58 24.9 22.3 33.5

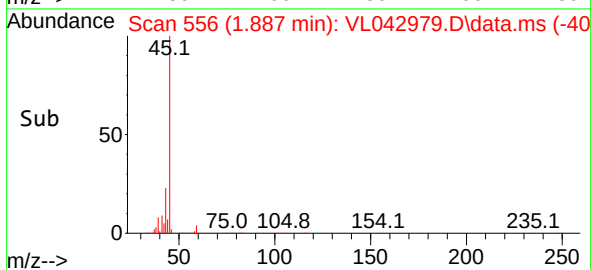
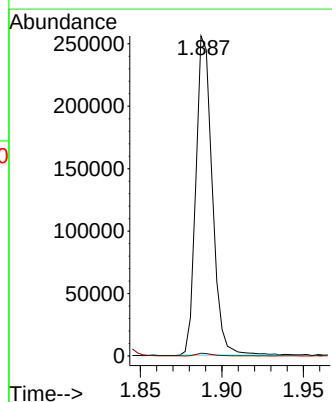
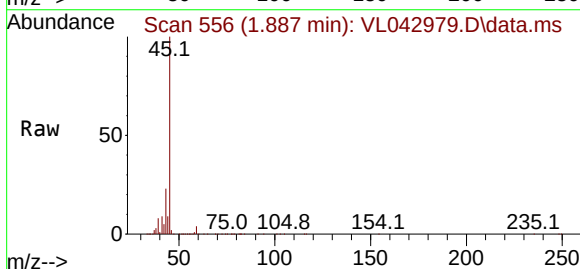
Manual Integrations
APPROVED

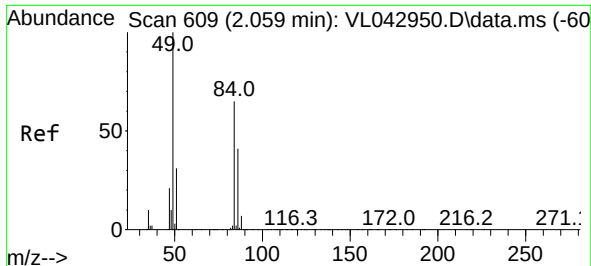
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#19
Isopropyl Alcohol
Concen: 15.200 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Tgt Ion: 45 Resp: 178860
Ion Ratio Lower Upper
45 100
58 0.9 31.0 46.6#





#20

Methylene Chloride

Concen: 0.196 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL042979.D

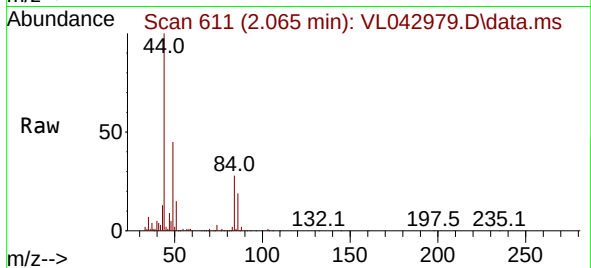
Acq: 23 Sep 2025 04:08

Instrument :

MSVOA_L

ClientSampleId :

151-1A-1DL

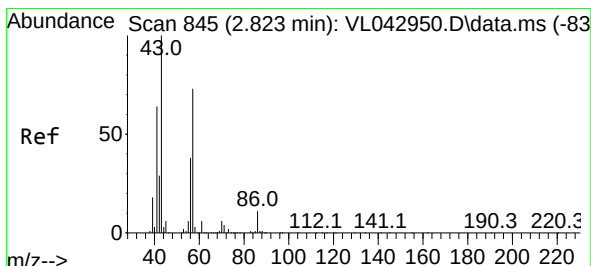
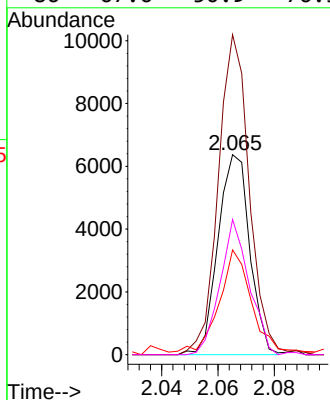
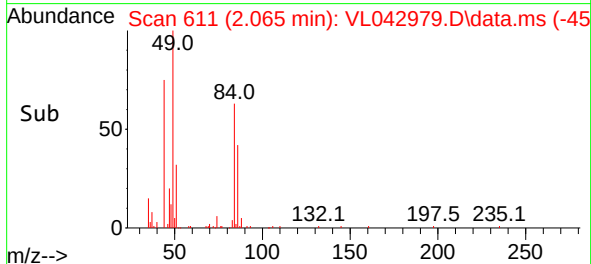


Tgt Ion:	84	Resp:	4978
Ion	Ratio	Lower	Upper
84	100		
49	160.0	124.1	186.1
51	50.6	39.8	59.8
86	67.6	50.9	76.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#26

Hexane

Concen: 0.196 ppbv

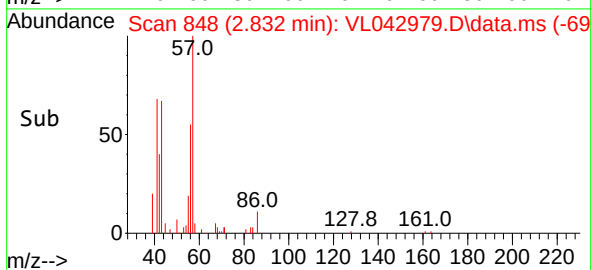
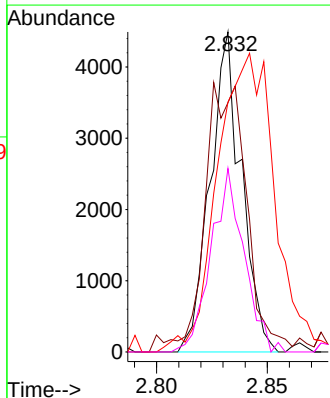
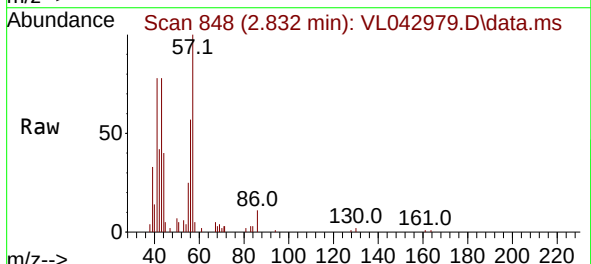
RT: 2.832 min Scan# 848

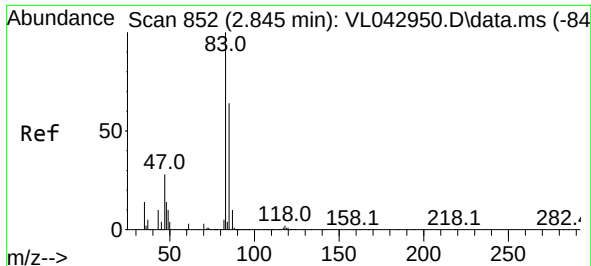
Delta R.T. 0.010 min

Lab File: VL042979.D

Acq: 23 Sep 2025 04:08

Tgt Ion:	57	Resp:	4418
Ion	Ratio	Lower	Upper
57	100		
41	115.3	71.7	107.5#
43	174.1	180.8	271.2#
56	60.1	41.4	62.0





#29

Chloroform

Concen: 0.105 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042979.D

Acq: 23 Sep 2025 04:08

Instrument :

MSVOA_L

ClientSampleId :

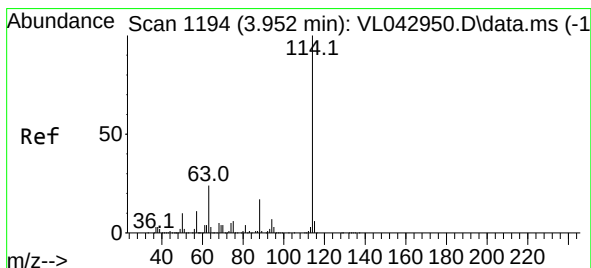
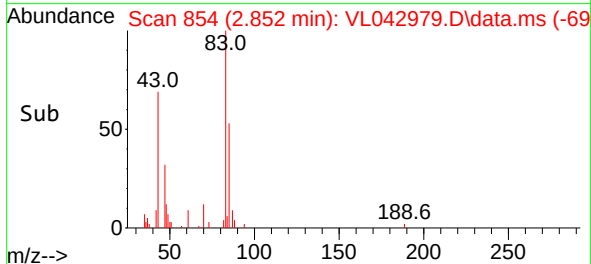
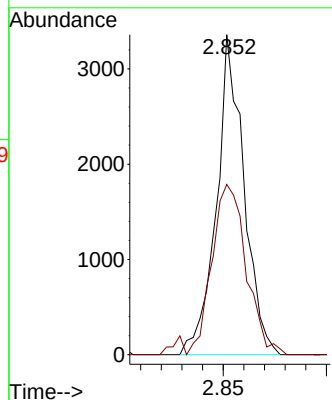
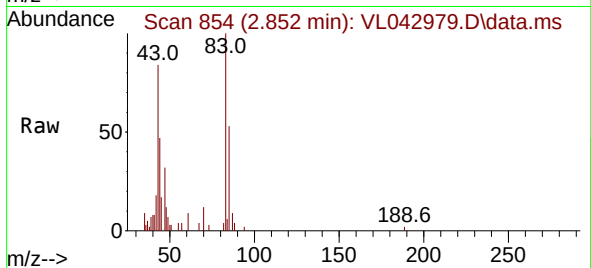
151-1A-1DL

Tgt Ion:	83	Resp:	310
Ion	Ratio	Lower	Upper
83	100		
85	51.4	51.2	76.8

Manual Integrations

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Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

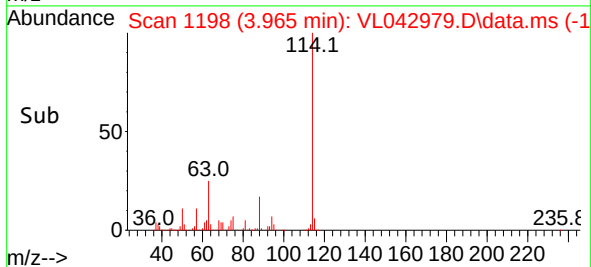
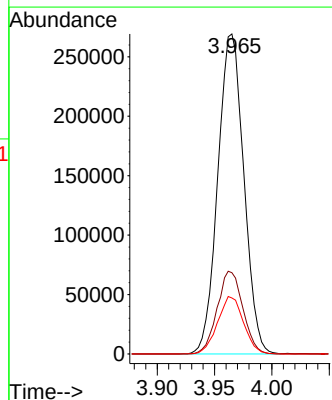
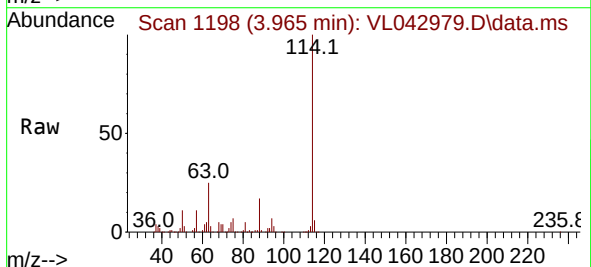
RT: 3.965 min Scan# 1198

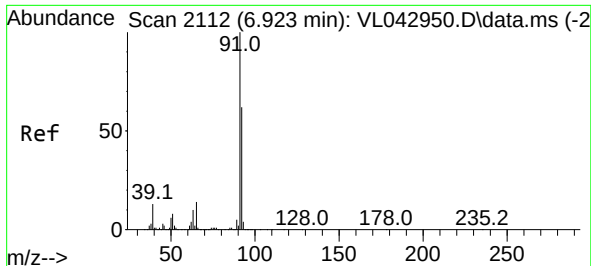
Delta R.T. 0.013 min

Lab File: VL042979.D

Acq: 23 Sep 2025 04:08

Tgt Ion:	114	Resp:	424605
Ion	Ratio	Lower	Upper
114	100		
63	25.5	19.4	29.2
88	17.9	14.2	21.2





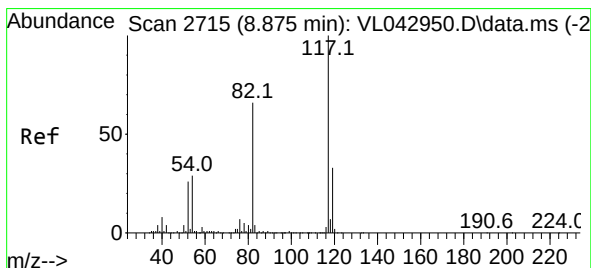
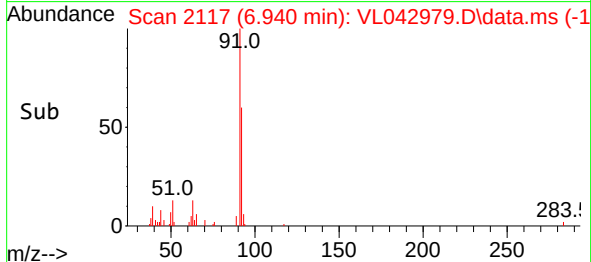
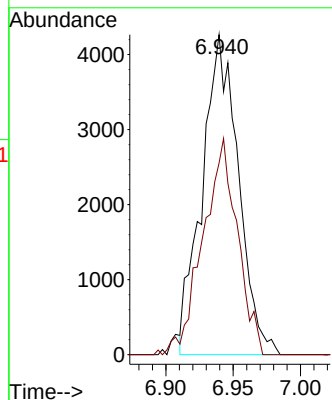
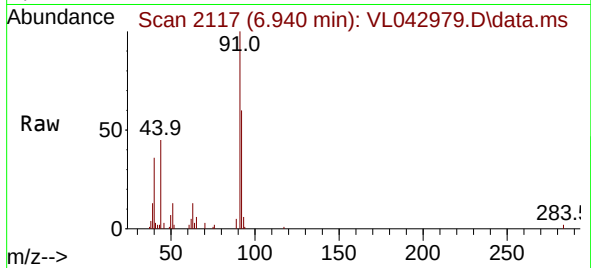
#53
Toluene
Concen: 0.170 ppbv
RT: 6.940 min Scan# 2112
Delta R.T. 0.016 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Instrument :
MSVOA_L
ClientSampleId :
151-1A-1DL

Tgt Ion: 91 Resp: 801
Ion Ratio Lower Upper
91 100
92 64.0 48.2 72.2

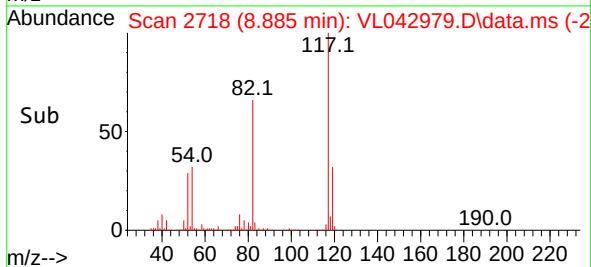
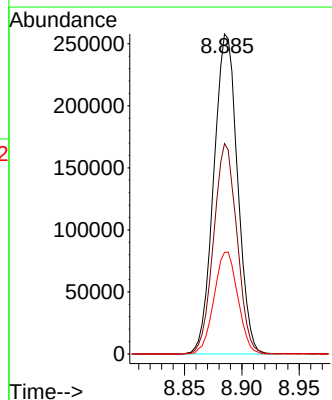
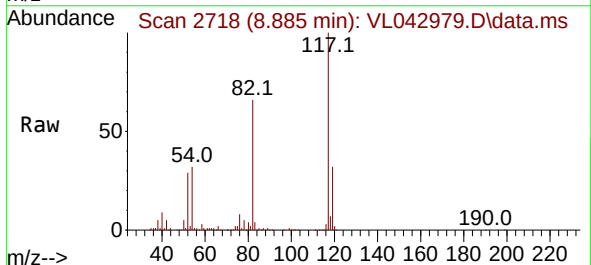
Manual Integrations
APPROVED

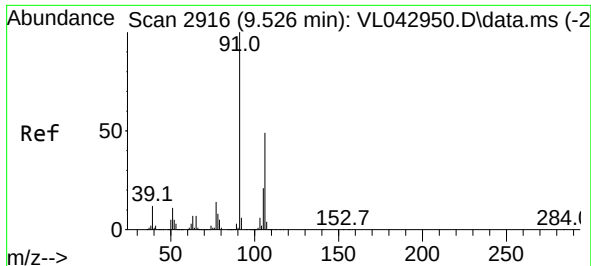
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.010 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Tgt Ion:117 Resp: 372157
Ion Ratio Lower Upper
117 100
82 64.7 52.8 79.2
119 31.9 26.5 39.7





#59

m/p-Xylene

Concen: 0.100 ppbv

RT: 9.539 min Scan# 2916

Delta R.T. 0.013 min

Lab File: VL042979.D

Acq: 23 Sep 2025 04:08

Instrument :

MSVOA_L

ClientSampleId :

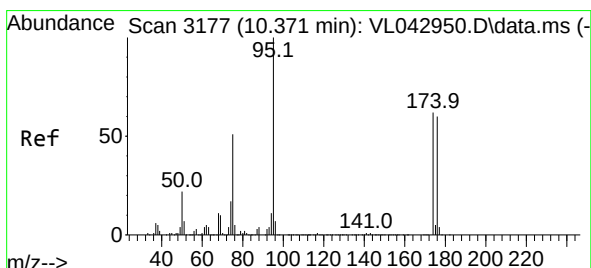
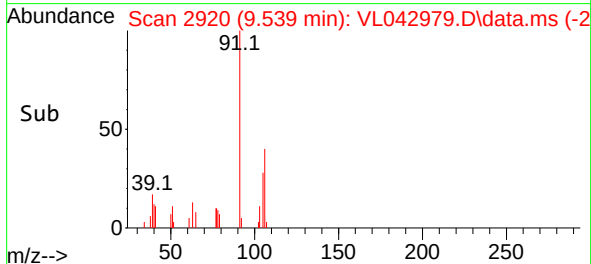
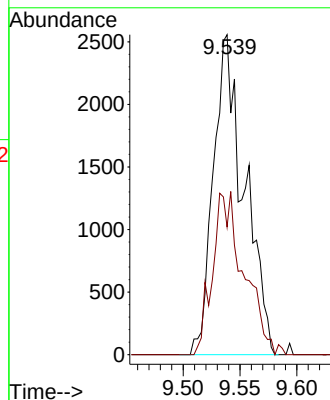
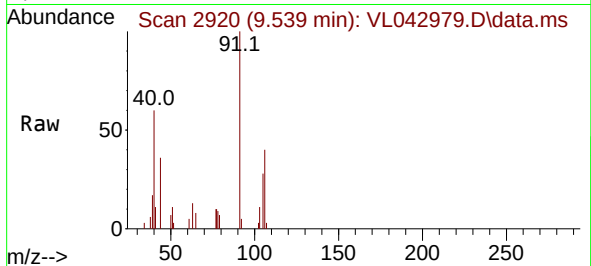
151-1A-1DL

Tgt Ion: 91 Resp: 482
 Ion Ratio Lower Upper
 91 100
 106 51.9 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/24/2025
 Supervised By :Semsettin Yesilyurt 09/24/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.292 ppbv

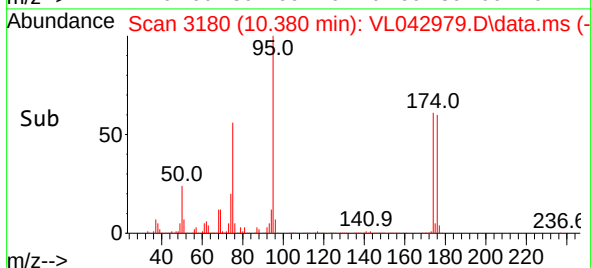
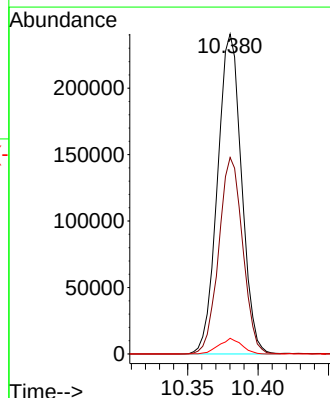
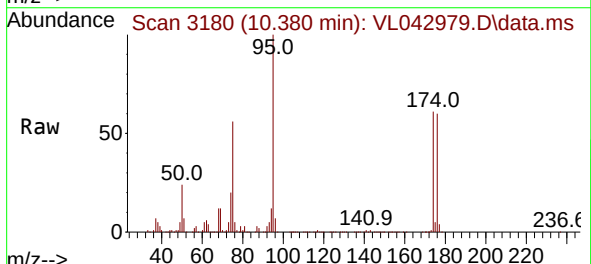
RT: 10.380 min Scan# 3180

Delta R.T. 0.010 min

Lab File: VL042979.D

Acq: 23 Sep 2025 04:08

Tgt Ion: 95 Resp: 285913
 Ion Ratio Lower Upper
 95 100
 174 61.3 51.4 77.2
 175 4.6 4.0 6.0



Report of Analysis

Client:	RTP Environmental	Date Collected:	09/17/25
Project:	CHADWICK SQUARE	Date Received:	09/17/25
Client Sample ID:	151-1A-2	SDG No.:	Q3132
Lab Sample ID:	Q3132-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042980.D	1		09/23/25 04:44	VL092225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
TARGETS						
75-71-8	Dichlorodifluoromethane	0.46	2.27	J	0.54	2.47
74-87-3	Chloromethane	0.49	1.01	J	0.21	1.03
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32
109-99-9	Tetrahydrofuran	0.15	0.44	J	0.24	1.47
75-69-4	Trichlorofluoromethane	0.46	2.59	J	0.96	2.81
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52
142-82-5	Heptane	0.28	1.15	J	0.70	2.05
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98
67-64-1	Acetone	12.6	29.9		0.43	1.19
75-15-0	Carbon Disulfide	0.080	0.25	U	0.25	1.56
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80
75-09-2	Methylene Chloride	0.66	2.29		0.80	1.74
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02
110-82-7	Cyclohexane	0.23	0.79	J	0.76	1.72
78-93-3	2-Butanone	0.54	1.59		0.18	1.47
56-23-5	Carbon Tetrachloride	0.070	0.44		0.19	0.19
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98
67-66-3	Chloroform	0.93	4.54		0.49	2.44
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16
540-84-1	2,2,4-Trimethylpentane	0.23	1.07	J	0.65	2.34
71-43-2	Benzene	0.45	1.44	J	0.26	1.60
107-06-2	1,2-Dichloroethane	0.21	0.85	J	0.36	2.02
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35
108-10-1	4-Methyl-2-Pentanone	0.11	0.45	J	0.41	2.05
108-88-3	Toluene	1.30	4.90		0.60	1.88
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73

Report of Analysis

Client:	RTP Environmental	Date Collected:	09/17/25
Project:	CHADWICK SQUARE	Date Received:	09/17/25
Client Sample ID:	151-1A-2	SDG No.:	Q3132
Lab Sample ID:	Q3132-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042980.D	1		09/23/25 04:44	VL092225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77
127-18-4	Tetrachloroethene	0.030	0.20		0.14	0.20
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30
100-41-4	Ethyl Benzene	0.24	1.04	J	0.83	2.17
179601-23-1	m/p-Xylene	0.83	3.61	J	1.78	4.34
95-47-6	o-Xylene	0.26	1.13	J	0.91	2.17
100-42-5	Styrene	0.19	0.81	J	0.68	2.13
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46
95-63-6	1,2,4-Trimethylbenzene	0.24	1.18	J	0.88	2.46
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46
110-54-3	Hexane	3.40	12.0		0.56	1.76
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05
SURROGATES						
460-00-4	1-Bromo-4-Fluorobenzene	10.5			70 (65) - 130 (135)	105% SPK: 10
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	145000		2.79		
540-36-3	1,4-Difluorobenzene	414000		3.962		
3114-55-4	Chlorobenzene-d5	363000		8.885		

Report of Analysis

Client:	RTP Environmental	Date Collected:	09/17/25
Project:	CHADWICK SQUARE	Date Received:	09/17/25
Client Sample ID:	151-1A-2	SDG No.:	Q3132
Lab Sample ID:	Q3132-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042980.D	1		09/23/25 04:44	VL092225

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

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\VL092225\
 Data File : VL042980.D
 Acq On : 23 Sep 2025 04:44
 Operator : SY/MD
 Sample : Q3132-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-1A-2

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/24/2025
 Supervised By :Semsettin Yesilyurt 09/24/2025

Quant Time: Sep 24 01:16:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

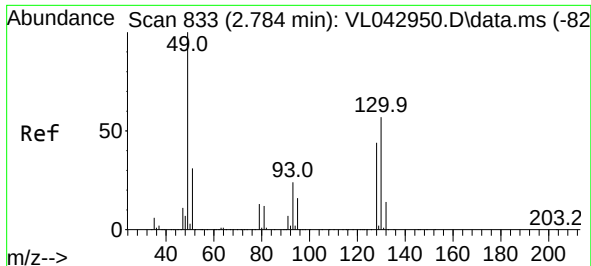
QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

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

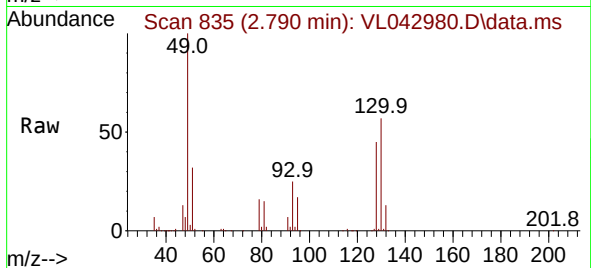
Internal Standards						
1) Bromochloromethane	2.790	49	144544	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	414049	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	363422	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	284547	10.489	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8977	0.462	ppbv	98
3) Chlorodifluoromethane	1.473	51	5094m	0.210	ppbv	
4) Chloromethane	1.534	50	4319	0.491	ppbv #	84
9) Propene	1.489	41	5457m	0.518	ppbv	
10) Heptane	4.988	43	7737m	0.275	ppbv	
11) Trichlorofluoromethane	1.881	101	8542	0.456	ppbv	97
13) Ethanol	1.722	45	341697	334.148	ppbv	96
15) Acetone	1.839	43	237044m	12.591	ppbv	
19) Isopropyl Alcohol	1.887	45	847050	74.844	ppbv #	38
20) Methylene Chloride	2.065	84	7194	0.656	ppbv #	83
26) Hexane	2.832	57	73023	3.367	ppbv #	57
29) Chloroform	2.852	83	26341	0.929	ppbv	97
30) Cyclohexane	3.865	84	4120m	0.227	ppbv	
34) 2-Butanone	2.564	43	15549	0.536	ppbv	99
35) Carbon Tetrachloride	3.771	117	1894m	0.070	ppbv	
36) Benzene	3.661	78	17329	0.446	ppbv	95
37) 1,2-Dichloroethane	3.221	62	4279	0.209	ppbv	100
41) Tetrahydrofuran	3.069	42	2477m	0.149	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	15144m	0.226	ppbv	
50) 4-Methyl-2-Pentanone	5.784	43	4249m	0.109	ppbv	
52) Tetrachloroethene	8.234	164	469	0.031	ppbv #	31
53) Toluene	6.940	91	60968	1.325	ppbv	100
58) Ethyl Benzene	9.357	91	14102	0.236	ppbv	99
59) m/p-Xylene	9.535	91	39034	0.830	ppbv #	100
60) o-Xylene	9.969	91	12216	0.260	ppbv	94
61) Styrene	9.872	104	4201	0.189	ppbv	94
74) 1,2,4-Trimethylbenzene	11.539	105	12546	0.238	ppbv #	67

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 833
Delta R.T. 0.006 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

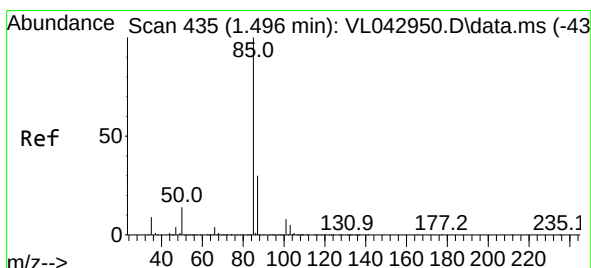
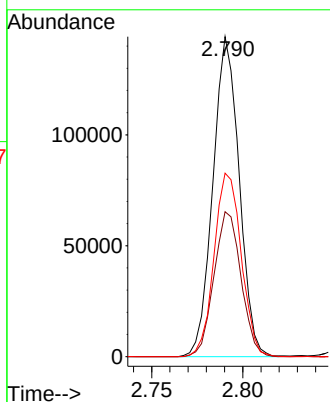
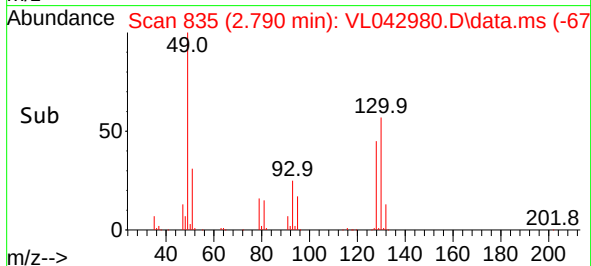
Instrument :
MSVOA_L
ClientSampleId :
151-1A-2



Tgt Ion: 49 Resp: 144544
Ion Ratio Lower Upper
49 100
128 46.6 22.9 68.8
130 59.4 29.1 87.3

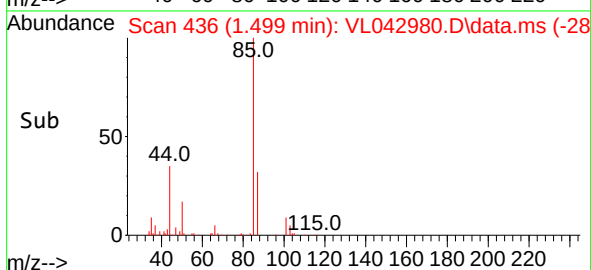
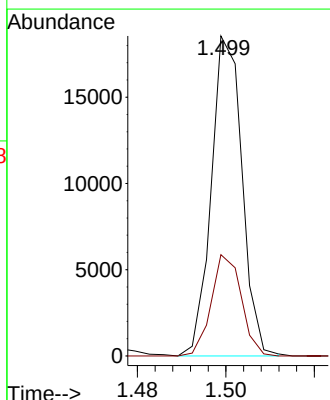
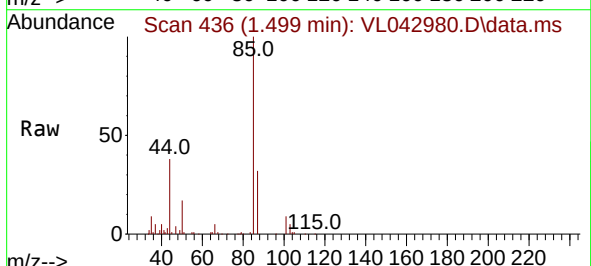
Manual Integrations
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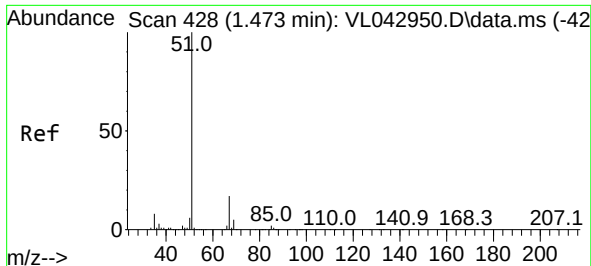
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#2
Dichlorodifluoromethane
Concen: 0.462 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Tgt Ion: 85 Resp: 8977
Ion Ratio Lower Upper
85 100
87 31.6 24.3 36.5





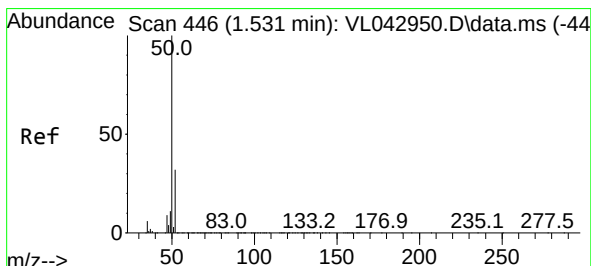
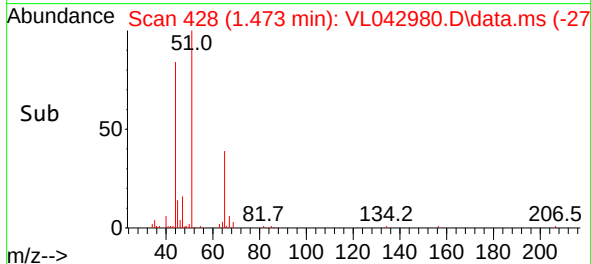
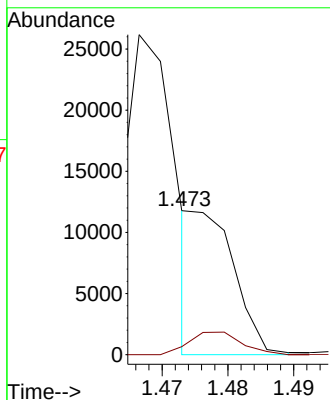
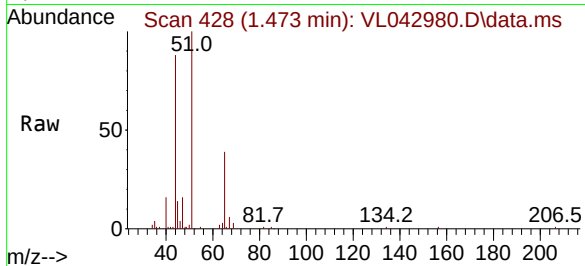
#3
Chlorodifluoromethane
Concen: 0.210 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Instrument :
MSVOA_L
ClientSampleId :
151-1A-2

Tgt Ion: 51 Resp: 5094
Ion Ratio Lower Upper
51 100
67 21.8 13.8 20.8

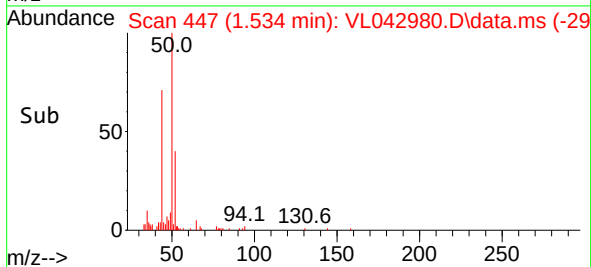
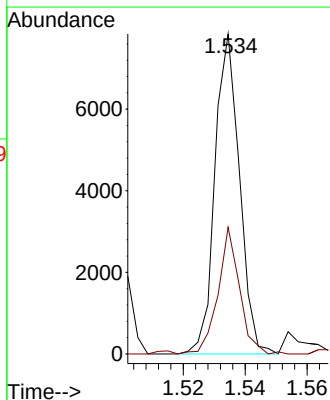
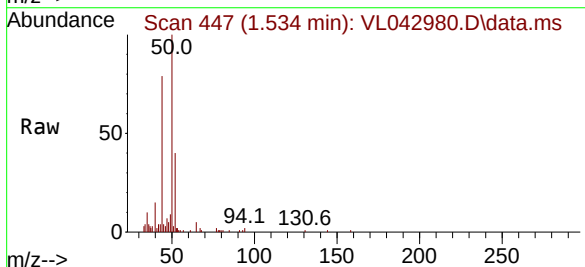
Manual Integrations
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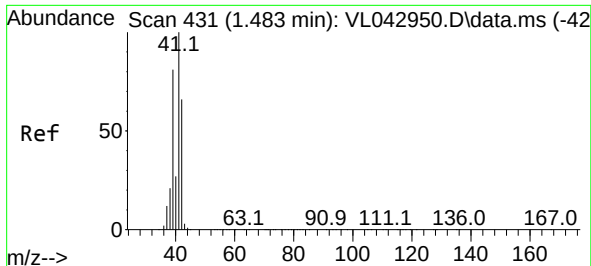
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#4
Chloromethane
Concen: 0.491 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

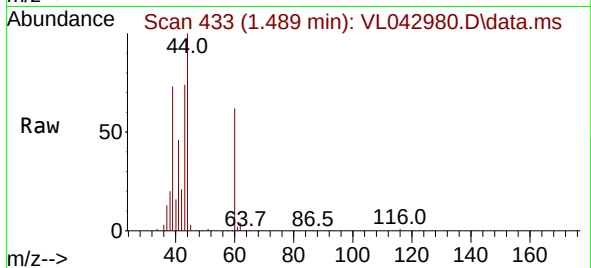
Tgt Ion: 50 Resp: 4319
Ion Ratio Lower Upper
50 100
52 41.4 25.9 38.9





#9
 Propene
 Concen: 0.518 ppbv m
 RT: 1.489 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042980.D
 Acq: 23 Sep 2025 04:44

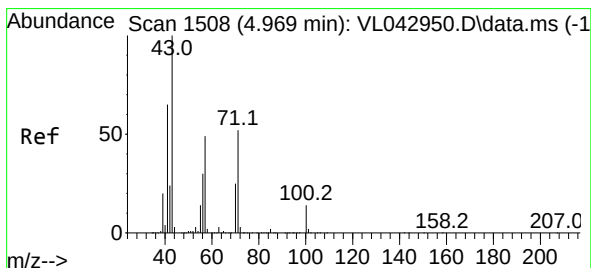
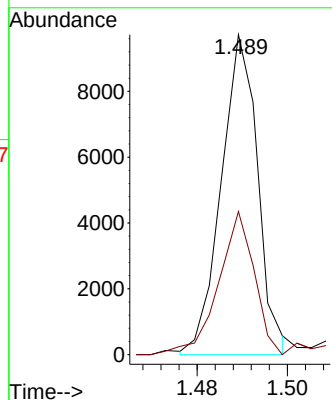
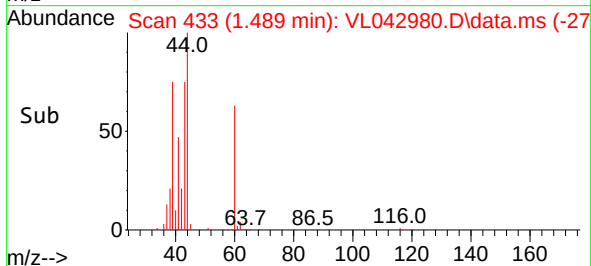
Instrument :
 MSVOA_L
 ClientSampleId :
 151-1A-2



Tgt Ion: 41 Resp: 545
 Ion Ratio Lower Upper
 41 100
 42 893.8 57.4 86.2

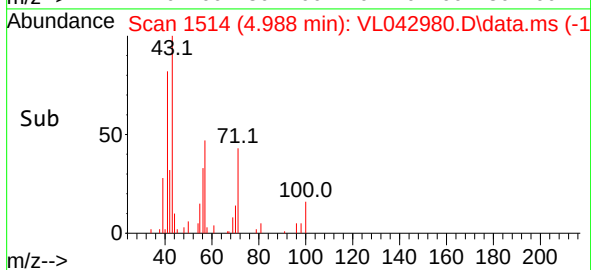
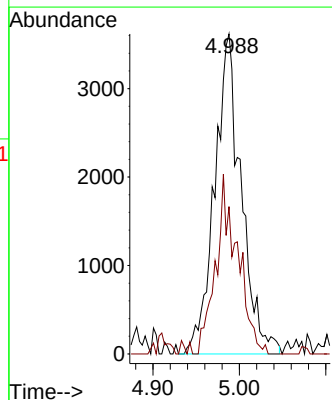
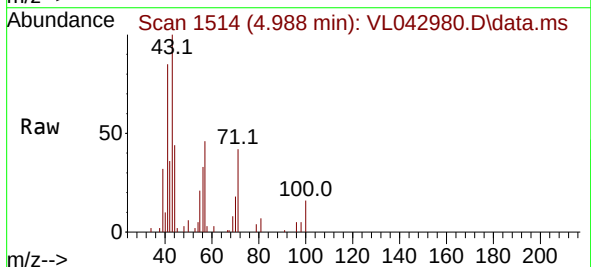
Manual Integrations
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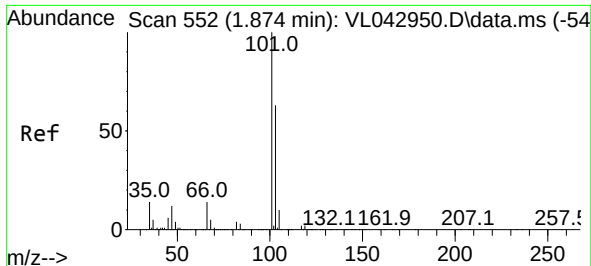
Reviewed By :Mahesh Dadoda 09/24/2025
 Supervised By :Semsettin Yesilyurt 09/24/2025



#10
 Heptane
 Concen: 0.275 ppbv m
 RT: 4.988 min Scan# 1514
 Delta R.T. 0.019 min
 Lab File: VL042980.D
 Acq: 23 Sep 2025 04:44

Tgt Ion: 43 Resp: 7737
 Ion Ratio Lower Upper
 43 100
 57 46.9 38.6 57.8





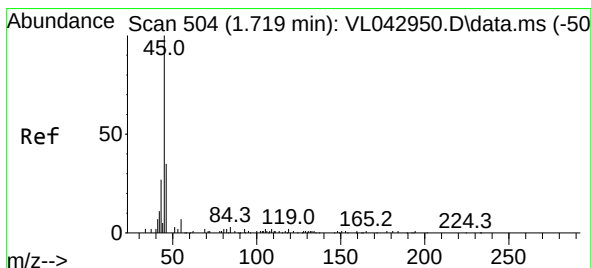
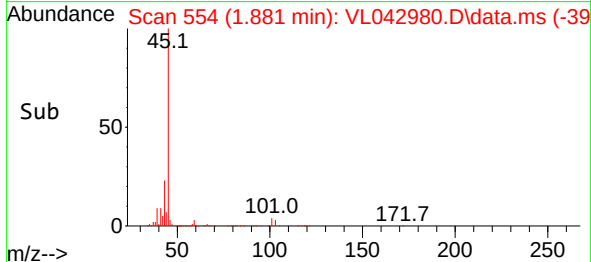
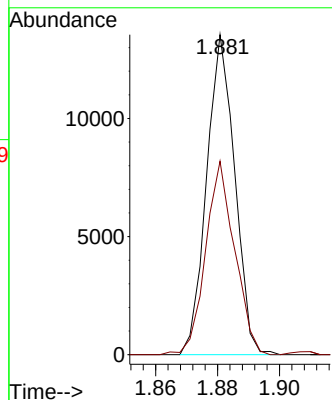
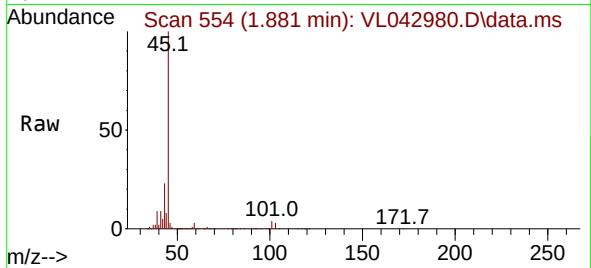
#11
Trichlorofluoromethane
Concen: 0.456 ppbv
RT: 1.881 min Scan# 501
Delta R.T. 0.006 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Instrument :
MSVOA_L
ClientSampleId :
151-1A-2

Tgt Ion:101 Resp: 854
Ion Ratio Lower Upper
101 100
103 60.4 50.1 75.1

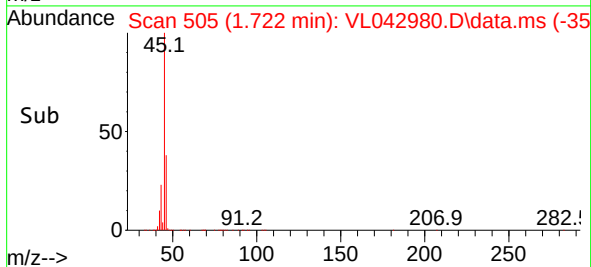
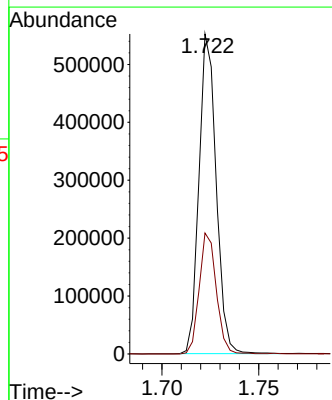
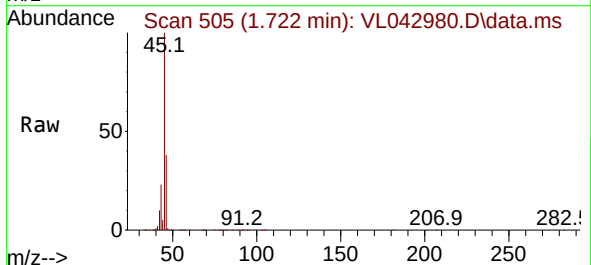
Manual Integrations
APPROVED

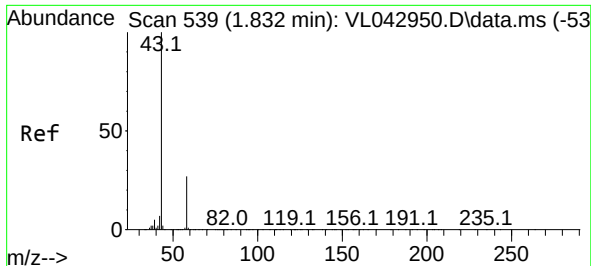
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#13
Ethanol
Concen: 334.148 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

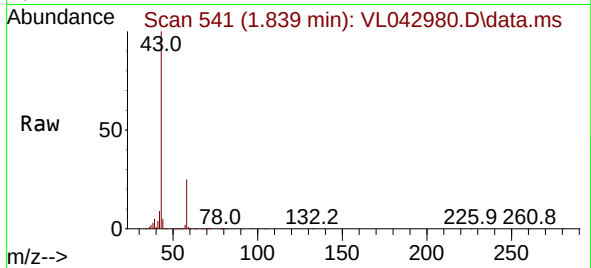
Tgt Ion: 45 Resp: 341697
Ion Ratio Lower Upper
45 100
46 38.0 16.2 64.6





#15
Acetone
Concen: 12.591 ppbv m
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

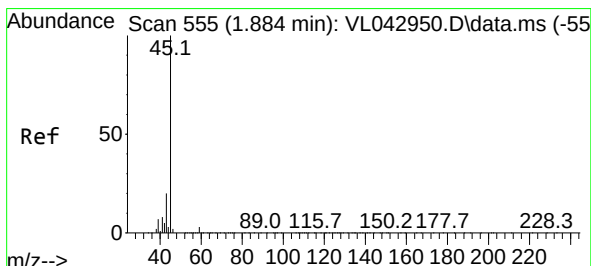
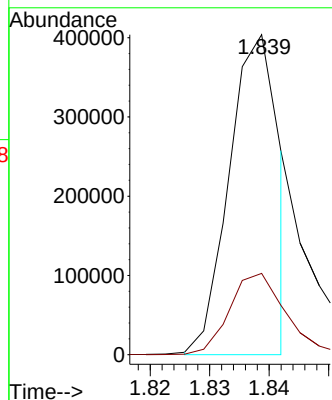
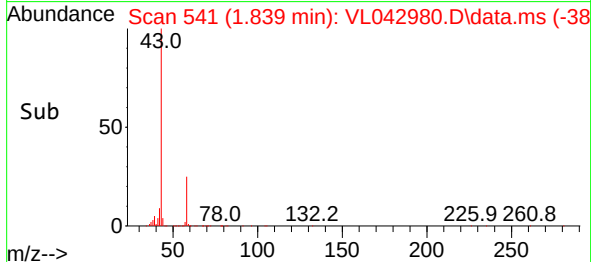
Instrument :
MSVOA_L
ClientSampleId :
151-1A-2



Tgt Ion: 43 Resp: 237044
Ion Ratio Lower Upper
43 100
58 28.7 22.3 33.5

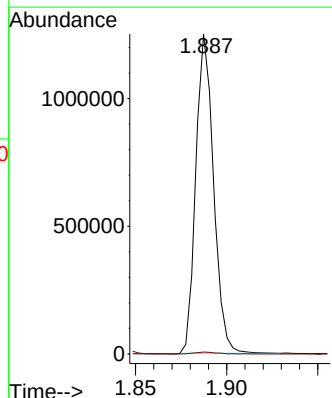
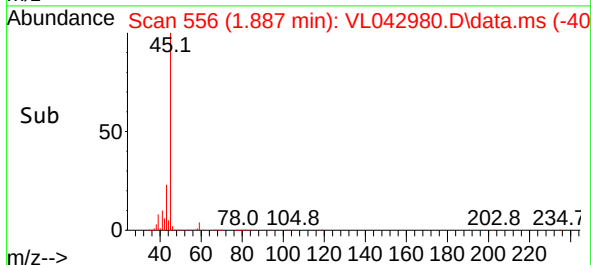
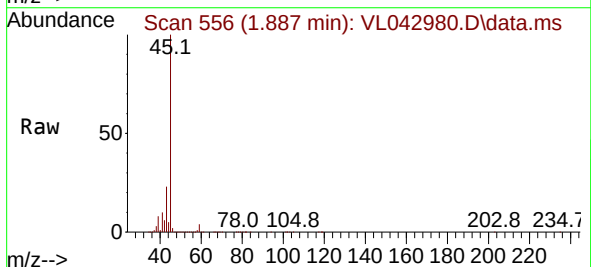
Manual Integrations
APPROVED

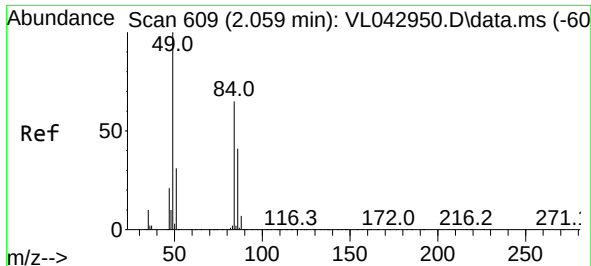
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#19
Isopropyl Alcohol
Concen: 74.844 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

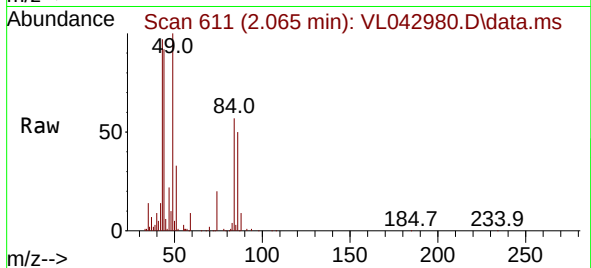
Tgt Ion: 45 Resp: 847050
Ion Ratio Lower Upper
45 100
58 0.8 31.0 46.6#





#20
Methylene Chloride
Concen: 0.656 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

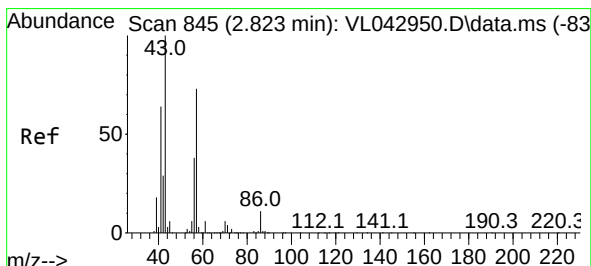
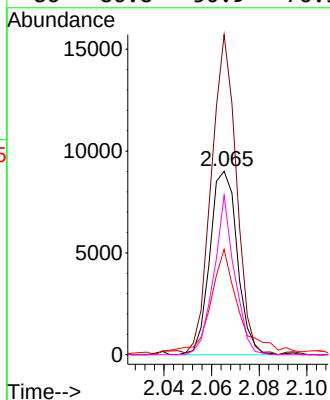
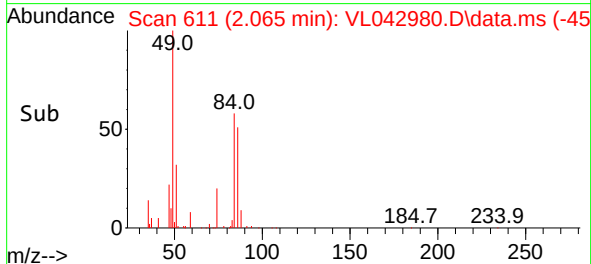
Instrument :
MSVOA_L
ClientSampleId :
151-1A-2



Tgt Ion: 84 Resp: 7194
Ion Ratio Lower Upper
84 100
49 174.5 124.1 186.1
51 55.0 39.8 59.8
86 86.8 50.9 76.3#

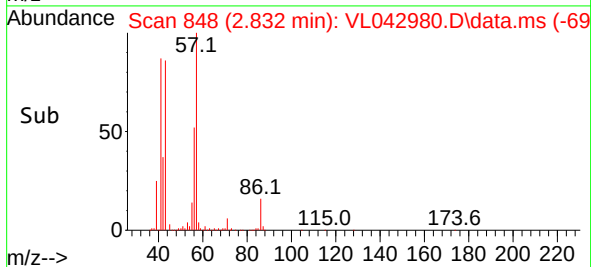
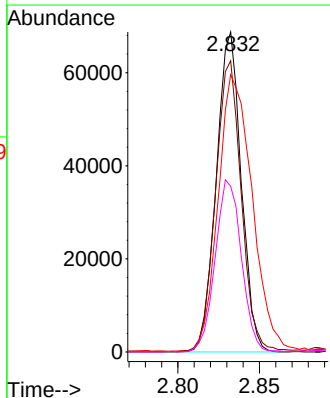
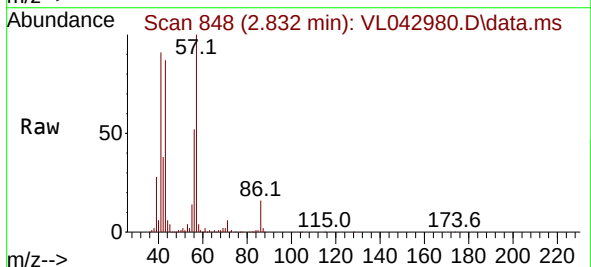
Manual Integrations
APPROVED

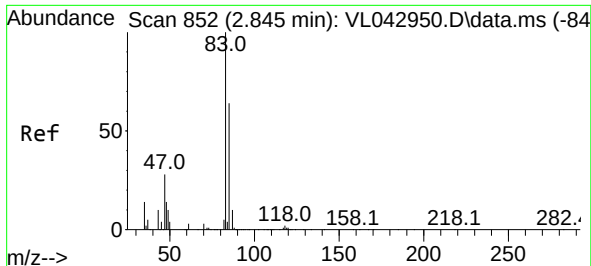
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#26
Hexane
Concen: 3.367 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.010 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Tgt Ion: 57 Resp: 73023
Ion Ratio Lower Upper
57 100
41 93.6 71.7 107.5
43 118.1 180.8 271.2#
56 56.8 41.4 62.0





#29

Chloroform

Concen: 0.929 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.006 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Instrument :

MSVOA_L

ClientSampleId :

151-1A-2

Tgt Ion: 83 Resp: 2634

Ion Ratio Lower Upper

83 100

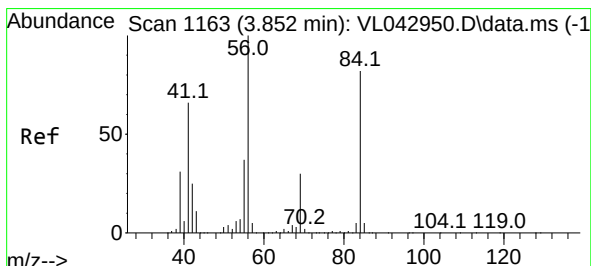
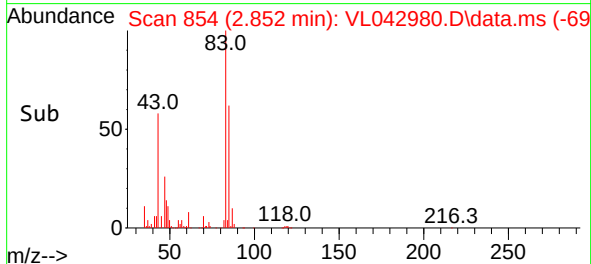
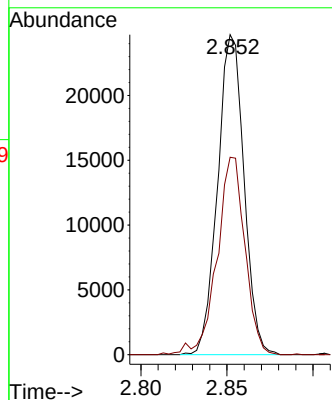
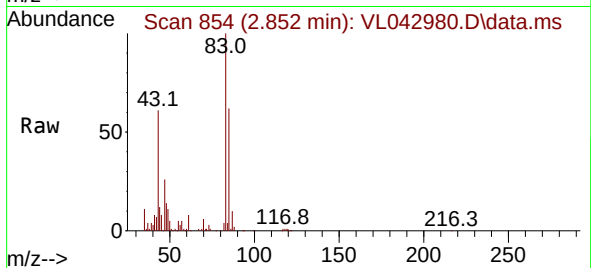
85 61.7 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/24/2025

Supervised By :Semsettin Yesilyurt 09/24/2025



#30

Cyclohexane

Concen: 0.227 ppbv m

RT: 3.865 min Scan# 1167

Delta R.T. 0.013 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

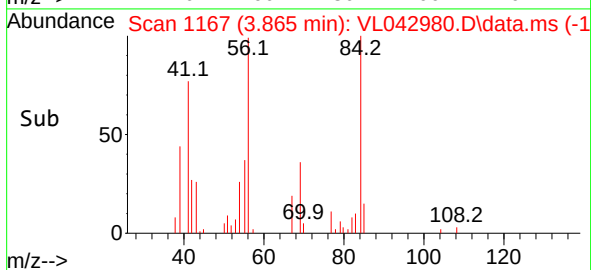
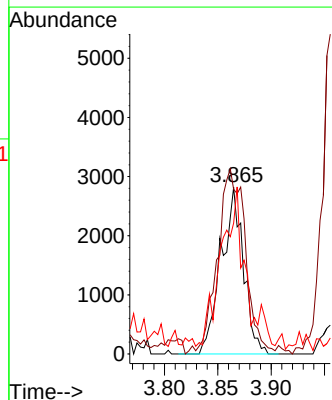
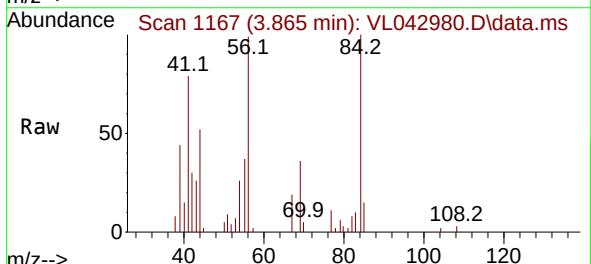
Tgt Ion: 84 Resp: 4120

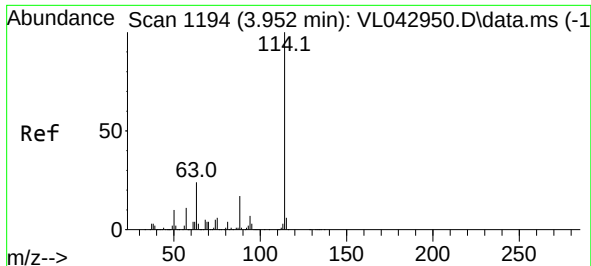
Ion Ratio Lower Upper

84 100

56 132.5 102.2 153.4

41 117.9 65.6 98.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1194

Delta R.T. 0.010 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Instrument :

MSVOA_L

ClientSampleId :

151-1A-2

Tgt Ion:114 Resp: 414049

Ion Ratio Lower Upper

114 100

63 25.6 19.4 29.2

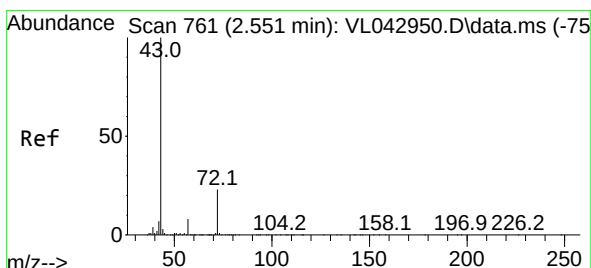
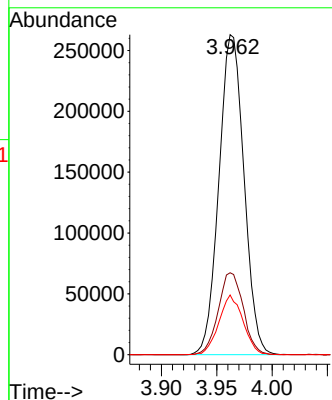
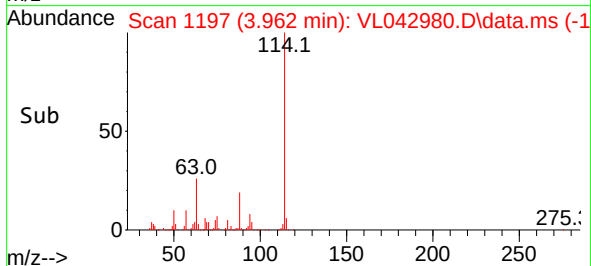
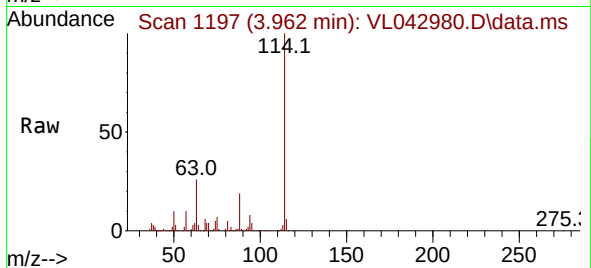
88 18.0 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/24/2025

Supervised By :Semsettin Yesilyurt 09/24/2025



#34

2-Butanone

Concen: 0.536 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.013 min

Lab File: VL042980.D

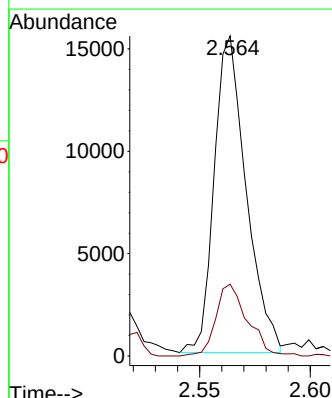
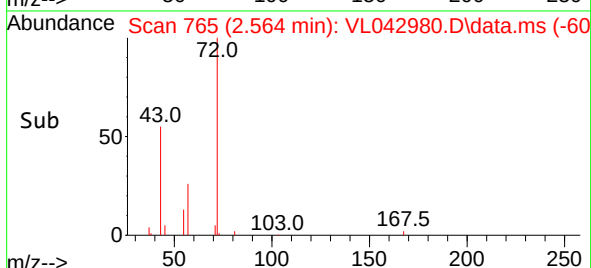
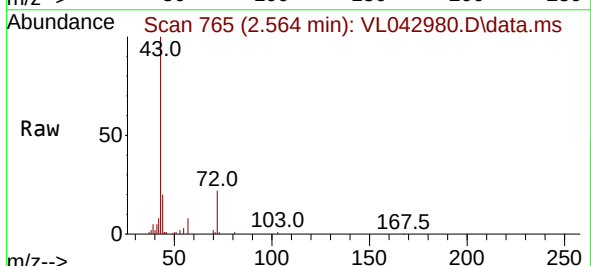
Acq: 23 Sep 2025 04:44

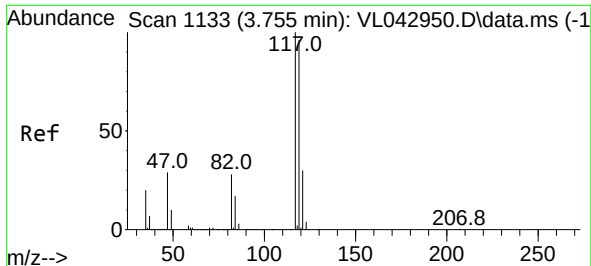
Tgt Ion: 43 Resp: 15549

Ion Ratio Lower Upper

43 100

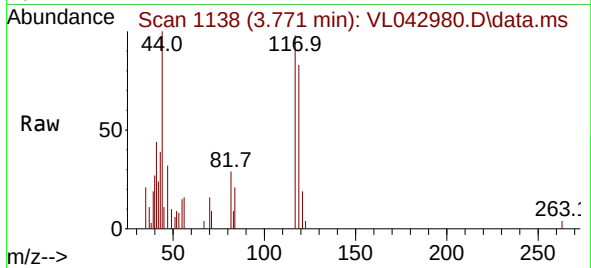
72 22.7 17.7 26.5





#35
Carbon Tetrachloride
Concen: 0.070 ppbv m
RT: 3.771 min Scan# 1133
Delta R.T. 0.016 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

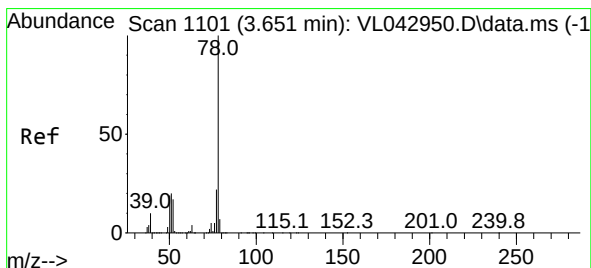
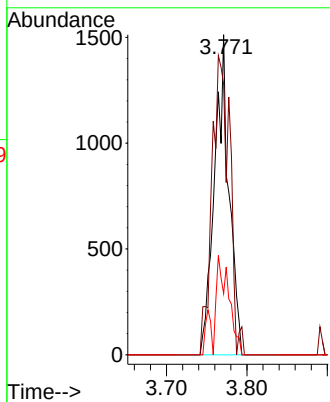
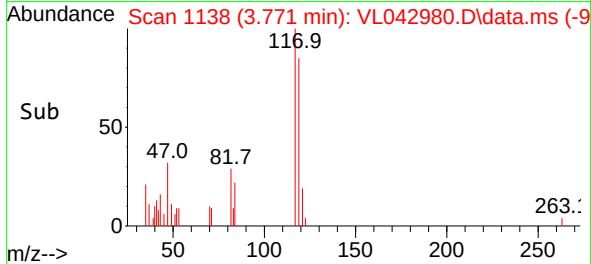
Instrument : MSVOA_L
ClientSampleId : 151-1A-2



Tgt Ion: 117 Resp: 1894
Ion Ratio Lower Upper
117 100
119 84.6 76.9 115.3
121 19.1 23.7 35.5

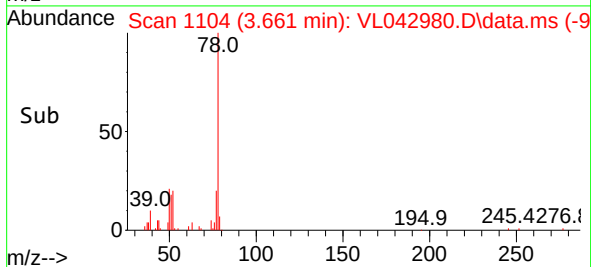
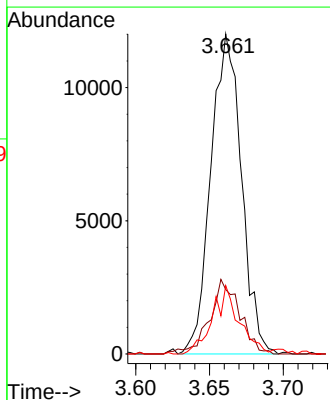
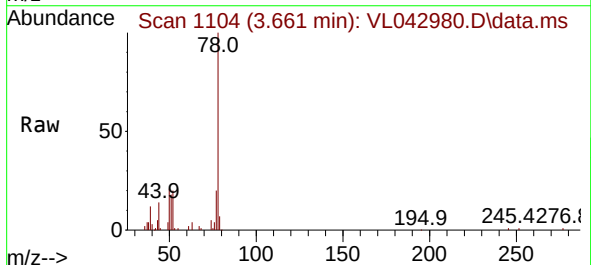
Manual Integrations
APPROVED

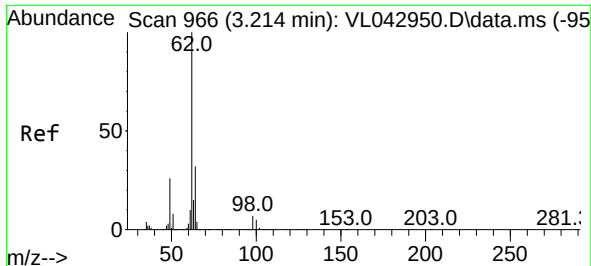
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#36
Benzene
Concen: 0.446 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.010 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

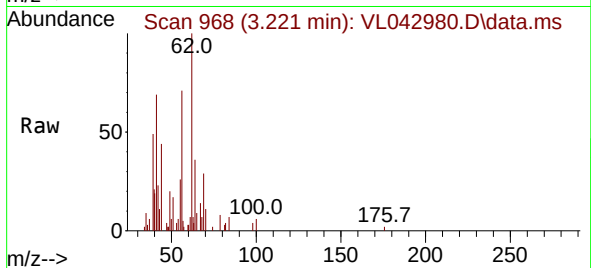
Tgt Ion: 78 Resp: 17329
Ion Ratio Lower Upper
78 100
77 20.2 17.8 26.6
50 21.4 15.0 22.4





#37
1,2-Dichloroethane
Concen: 0.209 ppbv
RT: 3.221 min Scan# 908
Delta R.T. 0.006 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

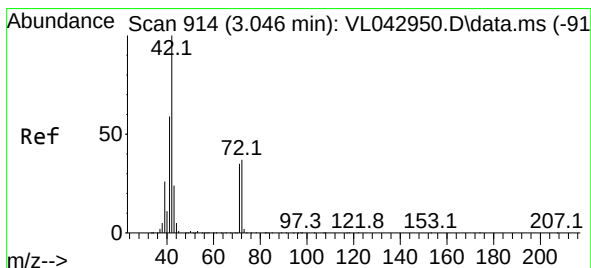
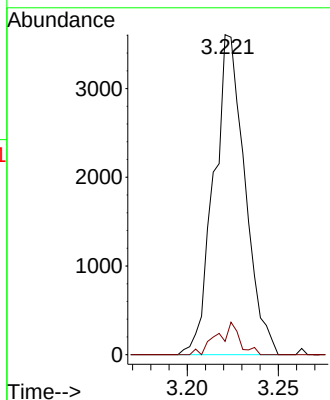
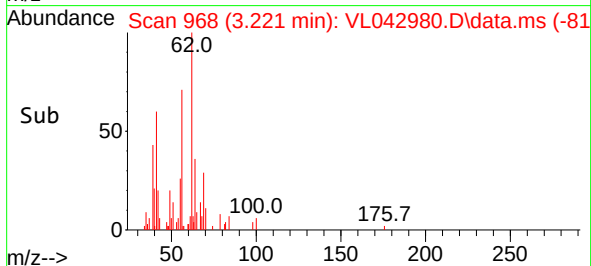
Instrument :
MSVOA_L
ClientSampleId :
151-1A-2



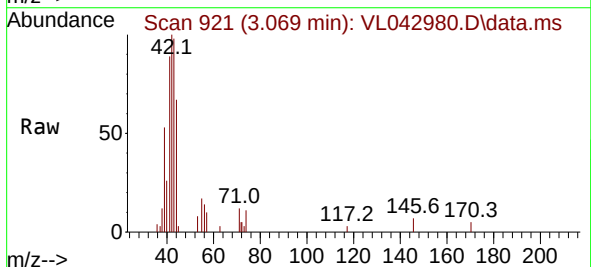
Tgt Ion: 62 Resp: 4279
Ion Ratio Lower Upper
62 100
98 7.4 5.9 8.9

Manual Integrations
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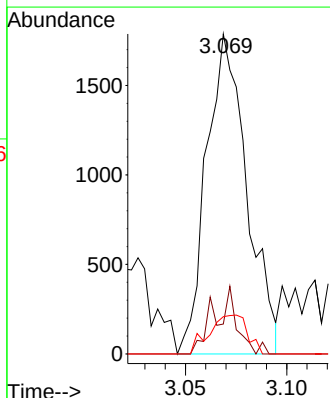
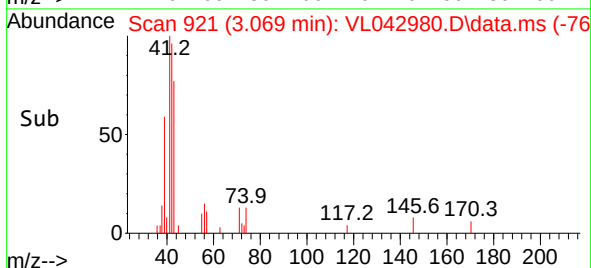
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025

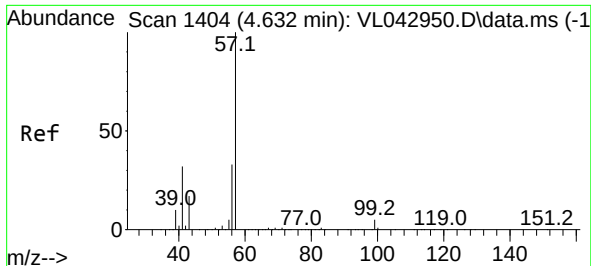


#41
Tetrahydrofuran
Concen: 0.149 ppbv m
RT: 3.069 min Scan# 921
Delta R.T. 0.023 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44



Tgt Ion: 42 Resp: 2477
Ion Ratio Lower Upper
42 100
72 0.0 30.0 45.0#
71 0.0 28.8 43.2#





#44

2,2,4-Trimethylpentane

Concen: 0.226 ppbv m

RT: 4.645 min Scan# 1404

Delta R.T. 0.013 min

Lab File: VL042980.D

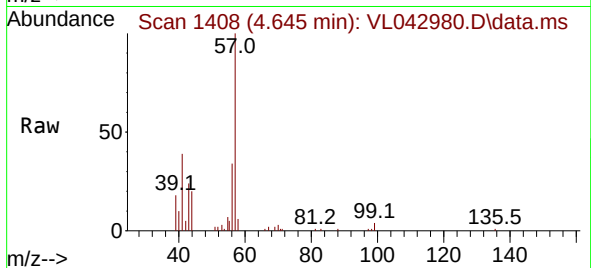
Acq: 23 Sep 2025 04:44

Instrument :

MSVOA_L

ClientSampleId :

151-1A-2



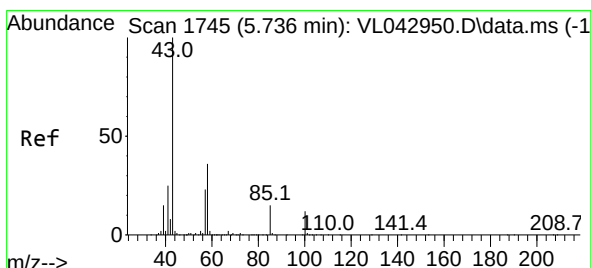
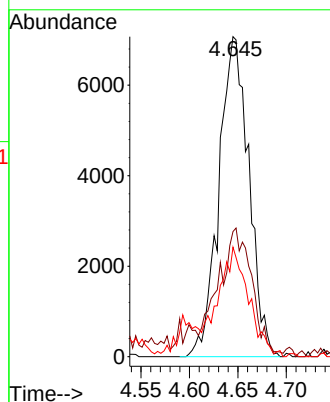
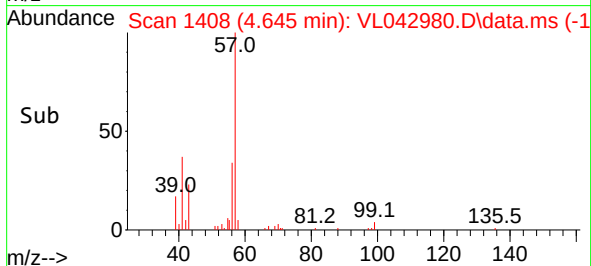
Tgt Ion:	57	Resp:	1514
Ion	Ratio	Lower	Upper
57	100		
41	51.5	25.5	38.3
56	43.7	25.8	38.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/24/2025

Supervised By :Semsettin Yesilyurt 09/24/2025



#50

4-Methyl-2-Pentanone

Concen: 0.109 ppbv m

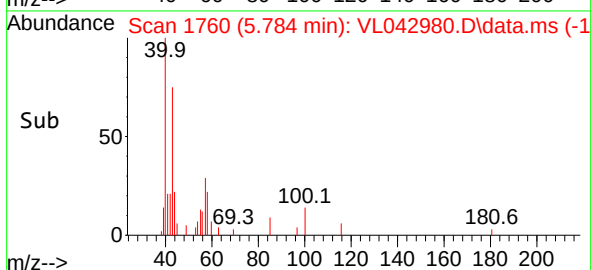
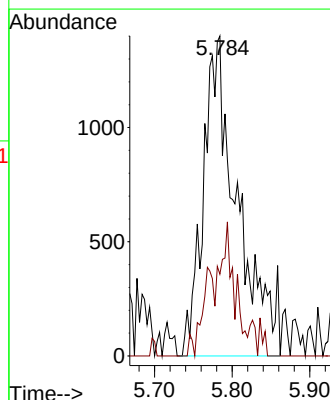
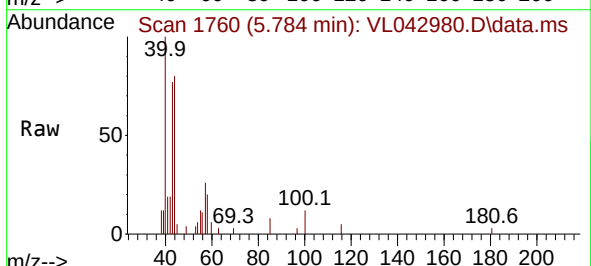
RT: 5.784 min Scan# 1760

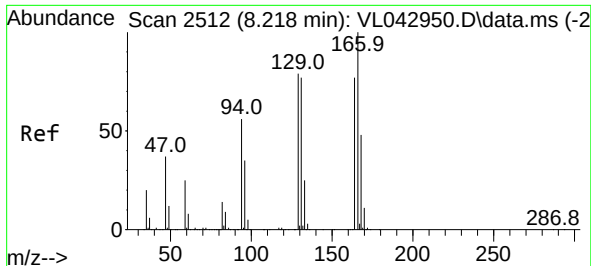
Delta R.T. 0.049 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

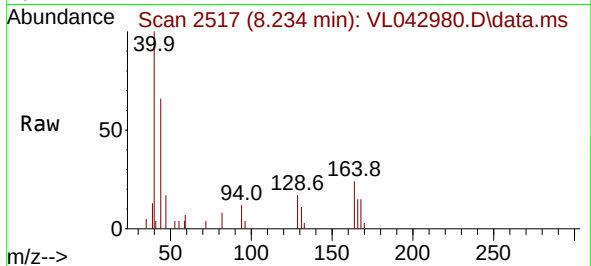
Tgt Ion:	43	Resp:	4249
Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	42.6





#52
Tetrachloroethene
Concen: 0.031 ppbv
RT: 8.234 min Scan# 2117
Delta R.T. 0.016 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

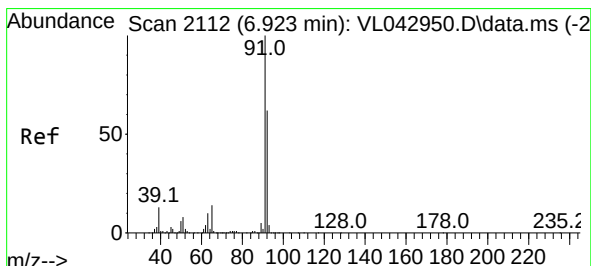
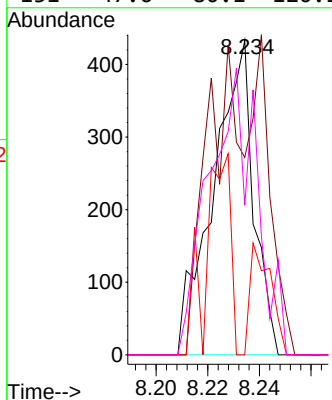
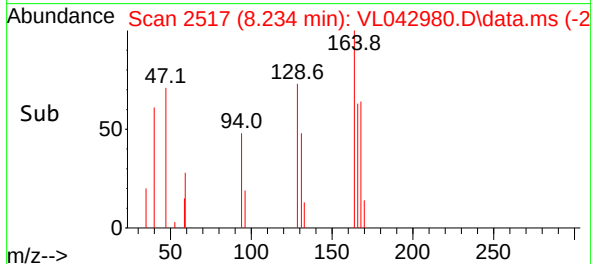
Instrument :
MSVOA_L
ClientSampleId :
151-1A-2



Tgt Ion:164 Resp: 469
Ion Ratio Lower Upper
164 100
166 62.8 103.5 155.3
129 0.0 82.2 123.4
131 47.6 80.1 120.1#

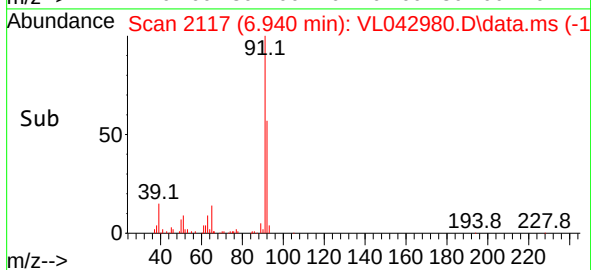
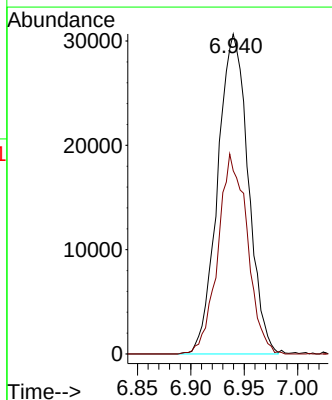
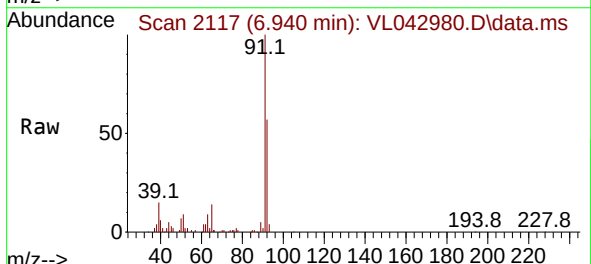
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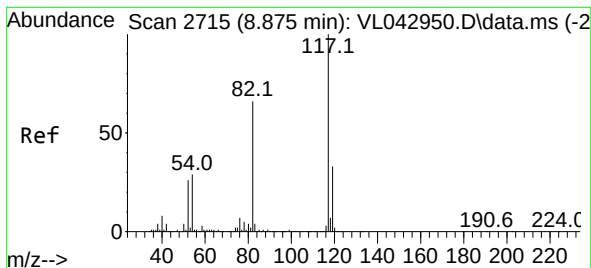
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#53
Toluene
Concen: 1.325 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.016 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Tgt Ion: 91 Resp: 60968
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2715

Delta R.T. 0.010 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Instrument :

MSVOA_L

ClientSampleId :

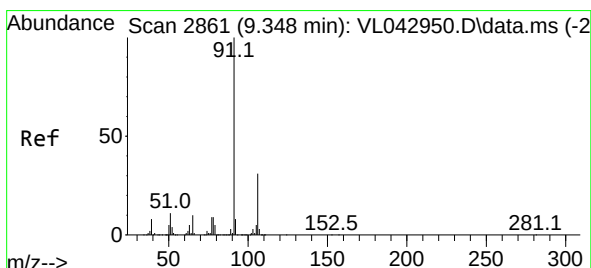
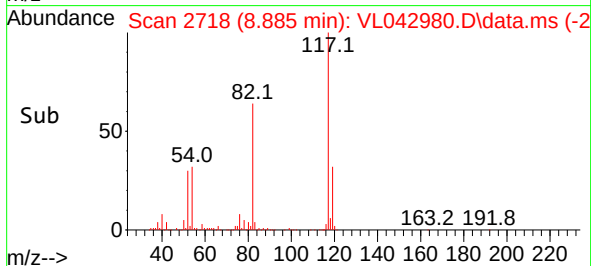
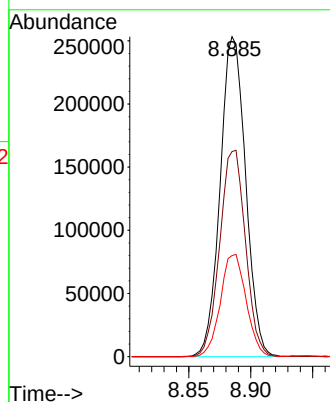
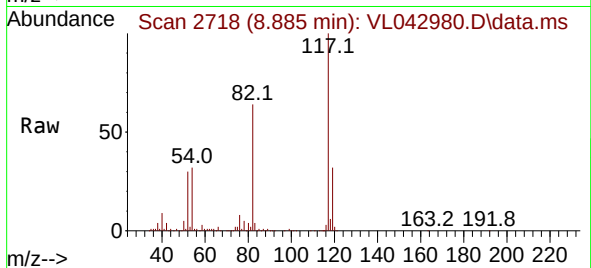
151-1A-2

Tgt Ion: 117 Resp: 36342
 Ion Ratio Lower Upper
 117 100
 82 65.3 52.8 79.2
 119 32.3 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/24/2025
 Supervised By :Semsettin Yesilyurt 09/24/2025



#58

Ethyl Benzene

Concen: 0.236 ppbv

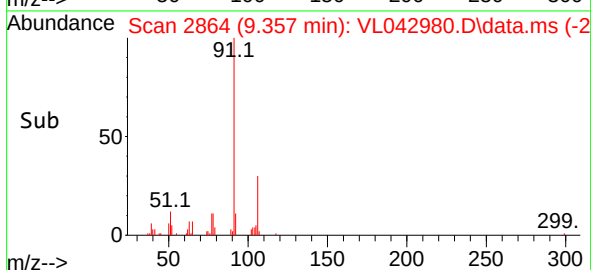
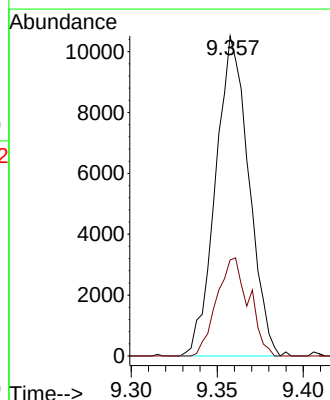
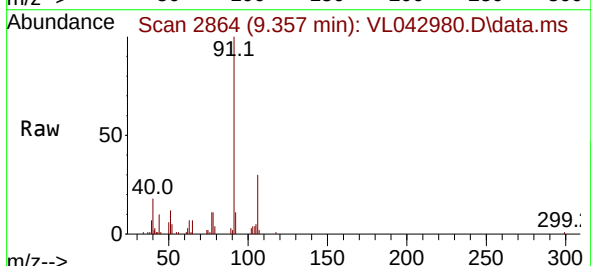
RT: 9.357 min Scan# 2864

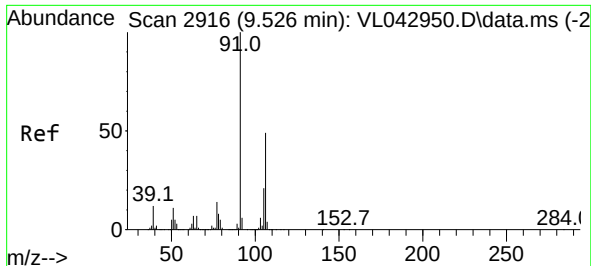
Delta R.T. 0.010 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Tgt Ion: 91 Resp: 14102
 Ion Ratio Lower Upper
 91 100
 106 30.0 24.6 37.0





#59

m/p-Xylene

Concen: 0.830 ppbv

RT: 9.535 min Scan# 2916

Delta R.T. 0.010 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Instrument :

MSVOA_L

ClientSampleId :

151-1A-2

Tgt Ion: 91 Resp: 39034

Ion Ratio Lower Upper

91 100

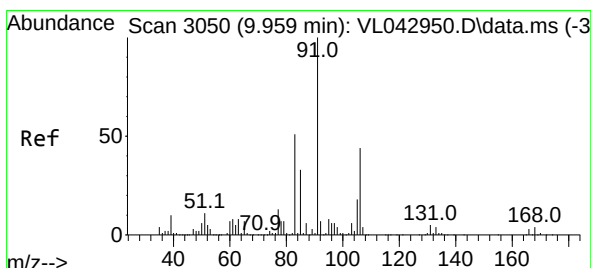
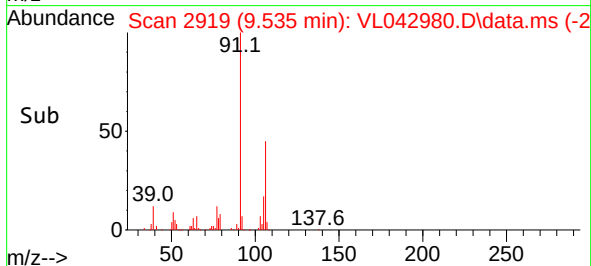
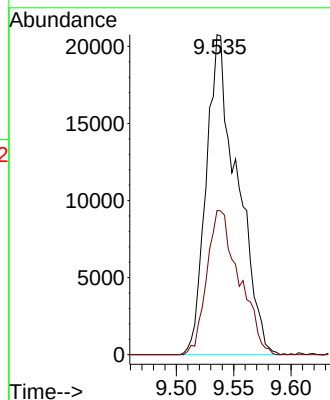
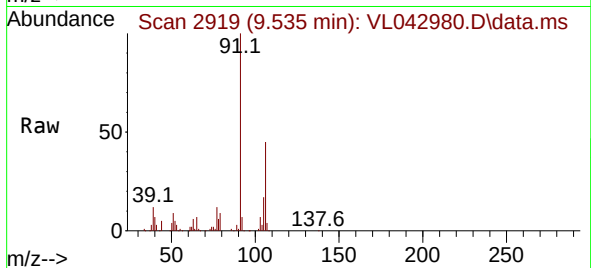
106 47.1 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/24/2025

Supervised By :Semsettin Yesilyurt 09/24/2025



#60

o-Xylene

Concen: 0.260 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. 0.010 min

Lab File: VL042980.D

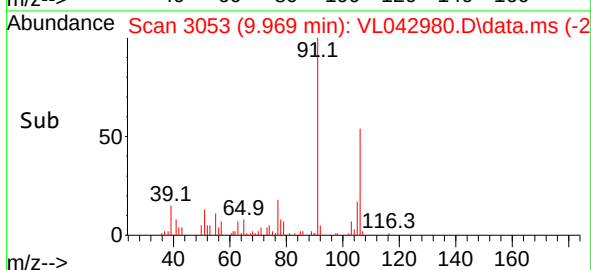
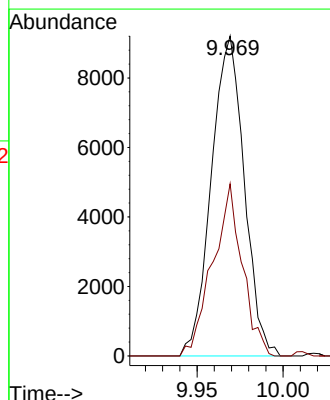
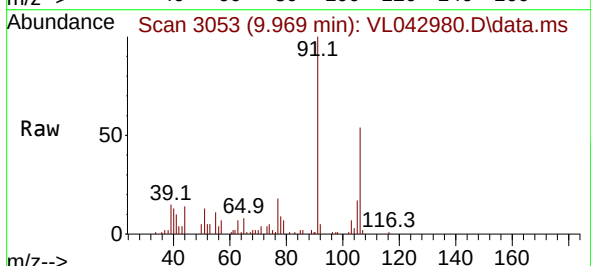
Acq: 23 Sep 2025 04:44

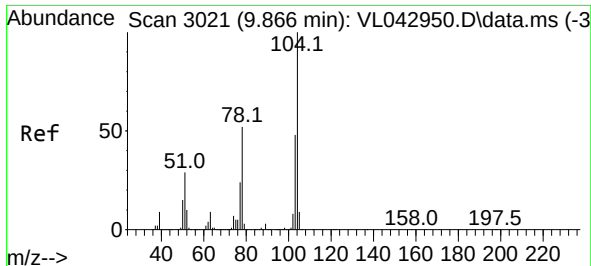
Tgt Ion: 91 Resp: 12216

Ion Ratio Lower Upper

91 100

106 48.7 22.4 67.0





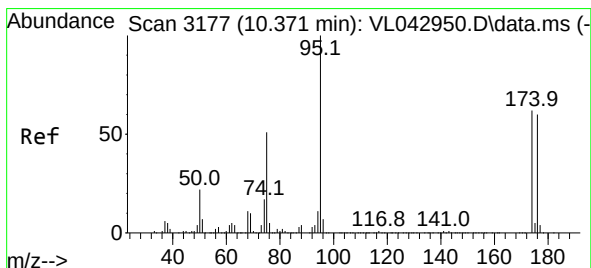
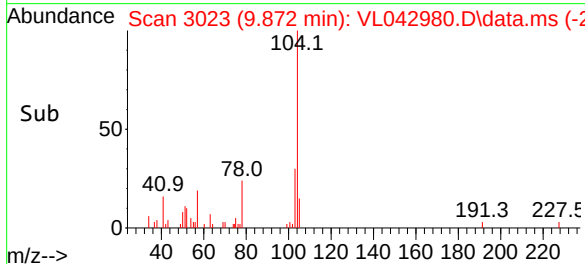
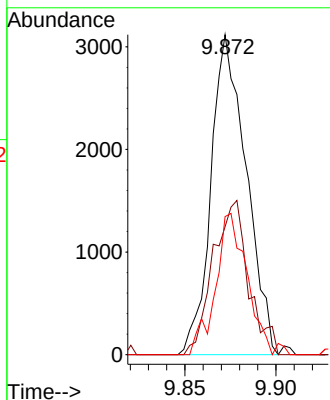
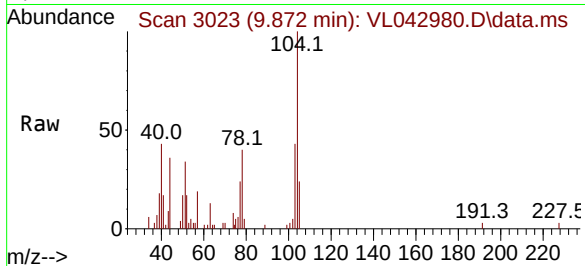
#61
Styrene
Concen: 0.189 ppbv
RT: 9.872 min Scan# 3021
Delta R.T. 0.006 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Instrument :
MSVOA_1
ClientSampleId :
151-1A-2

Tgt Ion:104 Resp: 420
Ion Ratio Lower Upper
104 100
78 48.3 39.9 59.9
103 39.9 36.9 55.3

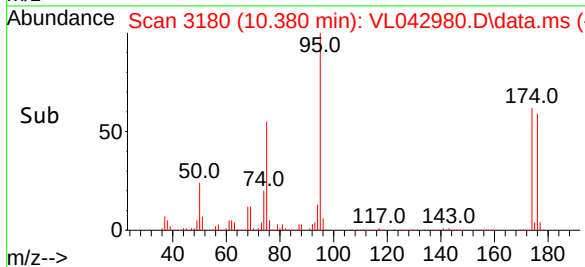
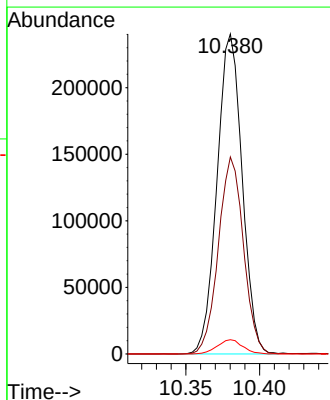
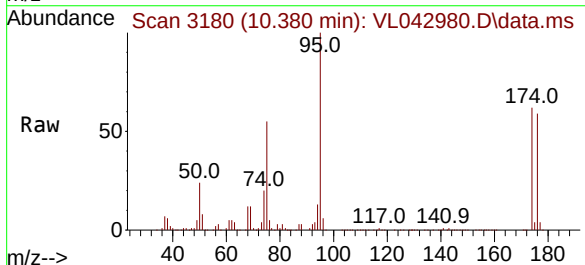
Manual Integrations
APPROVED

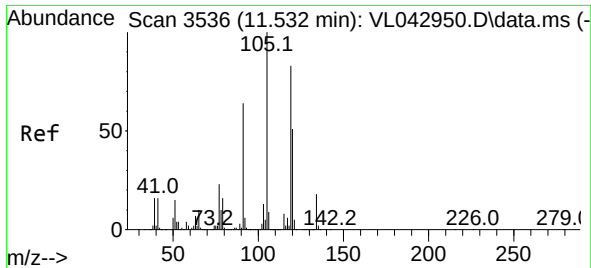
Reviewed By :Mahesh Dadoda 09/24/2025
Supervised By :Semsettin Yesilyurt 09/24/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.489 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

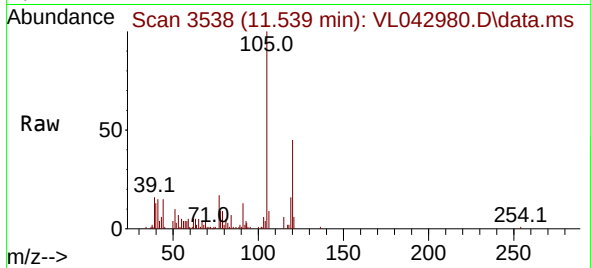
Tgt Ion: 95 Resp: 284547
Ion Ratio Lower Upper
95 100
174 61.6 51.4 77.2
175 4.5 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.238 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. 0.006 min
 Lab File: VL042980.D
 Acq: 23 Sep 2025 04:44

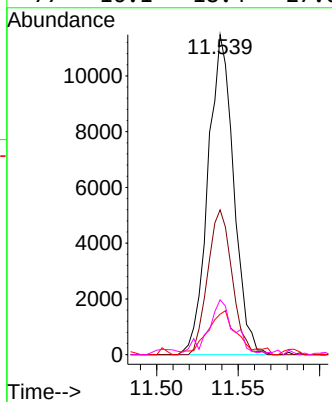
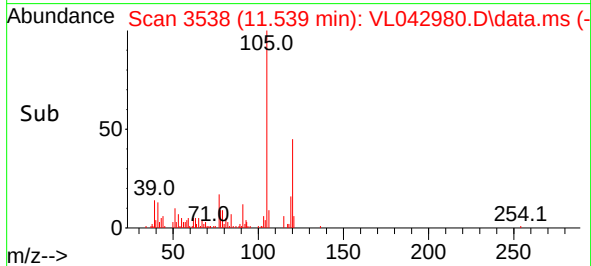
Instrument : MSVOA_L
 ClientSampleId : 151-1A-2



Tgt Ion:	105	Resp:	12540
Ion	Ratio	Lower	Upper
105	100		
120	50.9	40.9	61.3
91	12.7	51.2	76.8
77	16.1	18.4	27.6

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/24/2025
 Supervised By :Semsettin Yesilyurt 09/24/2025





CALIBRATION SUMMARY

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

Method File : VL092225AIR.M

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

Last Update : Tue Sep 23 02:39:16 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042955.D 0.1 =VL042954.D 0.5 =VL042953.D 1 =VL042952.D 2 =VL042951.D 10 =VL042950.D 15 =VL042956.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

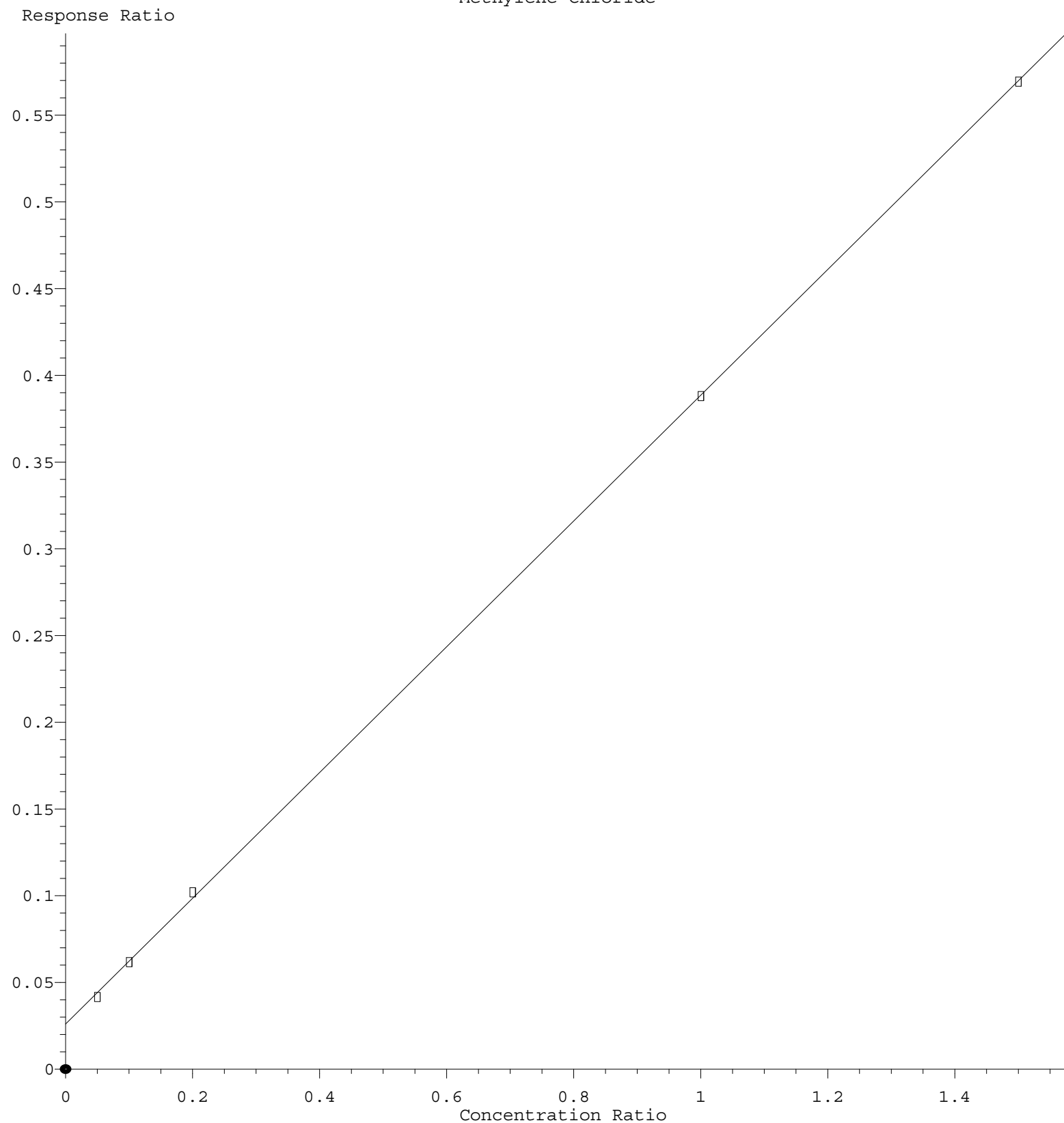
1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.391	1.452	1.401	1.248	1.232	1.345	7.33
3) Chlorodifluoro...			1.782	1.821	1.710	1.574	1.494	1.676	8.27
4) Chloromethane			0.693	0.622	0.624	0.560	0.545	0.609	9.66
5) T Vinyl Chloride	0.729	0.562	0.529	0.567	0.524	0.470	0.472	0.550	15.95
6) T Bromomethane			0.224	0.215	0.200	0.166	0.167	0.194	13.76
7) Chloroethane			0.234	0.238	0.212	0.196	0.189	0.214	10.33
8) T Dichlorotetra...			1.227	1.239	1.180	1.047	1.047	1.148	8.24
9) T Propene			0.784	0.787	0.762	0.684	0.631	0.729	9.47
10) T Heptane			2.102	2.060	1.961	1.870	1.738	1.946	7.57
11) T Trichlorofluor...			1.354	1.376	1.346	1.199	1.210	1.297	6.58
12) T 1,1,2-Trichlor...			1.130	1.117	1.068	0.963	0.973	1.050	7.48
13) Ethanol			0.076	0.090	0.088	0.053	0.047	0.071	27.75
14) T Bromoethene			0.430	0.417	0.415	0.362	0.362	0.397	8.23
15) T Acetone			1.490	1.552	1.475	0.993	1.002	1.302	21.48
16) T 1,3-Butadiene			0.751	0.675	0.607	0.520	0.519	0.614	16.41
17) tert-Butyl alc...			1.587	1.544	1.398	1.351	1.262	1.429	9.47
18) T 1,1-Dichloroet...			0.549	0.503	0.485	0.446	0.447	0.486	8.86
19) T Isopropyl Alcohol			0.898	0.813	0.818	0.718	0.667	0.783	11.61
20) T Methylene Chlo...			0.832	0.617	0.510	0.388	0.380	0.545	34.40
21) T Allyl Chloride			0.904	0.971	0.966	0.857	0.837	0.907	6.72
22) T trans-1,2-Dich...			0.589	0.612	0.556	0.507	0.499	0.552	8.98
23) T Vinyl Acetate			2.208	1.897	1.888	1.594	1.716	1.861	12.45
24) T 1,1-Dichloroet...			1.147	1.172	1.109	0.993	0.996	1.083	7.76
25) T Ethyl Acetate			3.405	3.494	3.443	3.153	2.966	3.292	6.83
26) T Hexane			1.621	1.614	1.553	1.398	1.317	1.501	9.08
27) T Carbon Disulfide			1.395	1.436	1.396	1.271	1.232	1.346	6.59
28) T Methyl tert-Bu...			0.953	0.773	0.742	0.638	0.794	0.780	14.61
29) T Chloroform			2.078	2.042	2.038	1.848	1.804	1.962	6.42
30) T Cyclohexane			1.312	1.333	1.280	1.193	1.154	1.255	6.19
31) T cis-1,2-Dichlo...			1.443	1.464	1.465	1.357	1.300	1.406	5.26
32) T 1,1,1-Trichlor...	2.724	2.087	2.017	2.164	2.071	1.902	1.868	2.119	13.51

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.744	0.731	0.741	0.655	0.633	0.701	7.52
35) T Carbon Tetrach...	0.734	0.616	0.660	0.665	0.657	0.610	0.617	0.651	6.63
36) T Benzene			0.974	0.970	0.972	0.898	0.881	0.939	4.84
37) T 1,2-Dichloroet...			0.502	0.517	0.507	0.470	0.473	0.494	4.28
38) T Trichloroethene	0.527	0.495	0.481	0.467	0.452	0.426	0.419	0.467	8.20
39) T 1,2-Dichloropr...			0.344	0.361	0.356	0.327	0.325	0.343	4.85

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL092225AIR.M											
40)	T	1,4-Dioxane			0.173	0.172	0.163	0.148	0.141	0.159	8.95
41)	T	Tetrahydrofuran			0.427	0.407	0.419	0.389	0.372	0.403	5.57
42)	T	Bromodichlorom...			0.689	0.699	0.702	0.681	0.667	0.688	2.07
43)		Methyl Methacr...			0.406	0.396	0.396	0.368	0.355	0.384	5.61
44)	T	2,2,4-Trimethy...			1.705	1.660	1.690	1.563	1.492	1.622	5.64
45)	T	t-1,3-Dichloro...			0.403	0.414	0.421	0.409	0.402	0.410	1.99
46)	T	cis-1,3-Dichlo...			0.522	0.528	0.537	0.523	0.501	0.522	2.55
47)	T	1,1,2-Trichlor...			0.382	0.377	0.371	0.344	0.336	0.362	5.70
48)	T	Dibromochlorom...			0.572	0.586	0.600	0.571	0.568	0.580	2.36
49)	T	Bromoform			0.477	0.507	0.534	0.508	0.495	0.504	4.18
50)	T	4-Methyl-2-Pen...			0.928	0.949	0.988	0.934	0.897	0.939	3.51
51)	T	2-Hexanone			0.719	0.774	0.769	0.751	0.730	0.749	3.19
52)	T	Tetrachloroethene	0.436	0.404	0.356	0.355	0.351	0.325	0.315	0.363	11.76
53)	T	Toluene			1.155	1.137	1.156	1.078	1.031	1.111	4.95
54)	T	1,2-Dibromoethane		0.520	0.520	0.520	0.525	0.490	0.485	0.510	3.47
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.497	0.486	0.505	0.458	0.447	0.479	5.28
57)	T	Chlorobenzene			0.968	0.978	0.944	0.853	0.822	0.913	7.75
58)	T	Ethyl Benzene			1.657	1.715	1.737	1.570	1.531	1.642	5.45
59)	T	m/p-Xylene			1.332	1.365	1.361	1.225	1.190	1.295	6.29
60)	T	o-Xylene			1.335	1.379	1.359	1.221	1.176	1.294	6.96
61)	T	Styrene			0.605	0.619	0.648	0.602	0.585	0.612	3.89
62)		Isopropylbenzene			2.010	2.059	2.028	1.803	1.744	1.929	7.49
63)	T	1,1,2,2-Tetrac...	0.806	0.722	0.688	0.675	0.673	0.610	0.586	0.680	10.66
64)		n-propylbenzene			0.531	0.529	0.523	0.473	0.463	0.504	6.51
65)		tert-Butylbenzene			1.836	1.839	1.842	1.557	1.503	1.715	9.91
66)	T	Benzyl Chloride			0.170	0.173	0.196	0.195	0.165	0.180	8.14
67)		sec-Butylbenzene			2.508	2.559	2.579	2.191	2.115	2.390	9.19
68)	S	1-Bromo-4-Fluo...	0.736	0.738	0.749	0.743	0.747	0.763	0.750	0.746	1.20
69)		p-Isopropyltol...			2.105	2.168	2.179	1.856	1.788	2.019	9.11
70)		n-Butylbenzene			1.929	2.108	2.136	1.881	1.803	1.971	7.36
71)		2-Chlorotoluene			1.543	1.504	1.528	1.373	1.333	1.456	6.61
72)	T	4-Ethyltoluene			1.715	1.686	1.703	1.523	1.476	1.621	6.92
73)	T	1,3,5-Trimethy...			1.333	1.346	1.399	1.263	1.231	1.314	5.12
74)	T	1,2,4-Trimethy...			1.534	1.522	1.558	1.349	1.294	1.451	8.34
75)	T	1,3-Dichlorobe...			0.918	0.954	0.956	0.845	0.827	0.900	6.72
76)	T	1,4-Dichlorobe...			0.922	0.914	0.959	0.845	0.829	0.894	6.12
77)	T	1,2-Dichlorobe...			0.874	0.914	0.918	0.796	0.780	0.856	7.61
78)	T	Hexachloro-1,3...			0.755	0.742	0.728	0.575	0.549	0.670	14.79
79)	T	Naphthalene		1.093	1.102	1.320	1.474	1.373	1.339	1.283	11.96
80)	T	Naphthalene,2-...			0.384	0.365	0.428	0.402	0.404	0.396	5.94
81)	T	1,2,4-Trichlor...			0.557	0.691	0.777	0.718	0.689	0.686	11.73

(#) = Out of Range

Methylene Chloride



Response = $3.623 \times 10^{-1} \times \text{Amt} + 2.601 \times 10^{-2}$
Coef of Det (r^2) = 0.999913 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL092225AIR.M
Calibration Table Last Updated: Tue Sep 23 02:39:16 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042950.D
 Acq On : 22 Sep 2025 09:39
 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 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:08:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	170899	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	526679	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	486724	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.371 95 371195 10.217 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	213351	9.282	ppbv	100
3) Chlorodifluoromethane	1.473	51	269073	9.392	ppbv	100
4) Chloromethane	1.531	50	95679	9.196	ppbv	100
5) Vinyl Chloride	1.577	62	80350	8.543	ppbv	100
6) Bromomethane	1.667	94	28301	8.530	ppbv	100
7) Chloroethane	1.703	64	33446	9.158	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	178992	9.122	ppbv	100
9) Propene	1.483	41	116849	9.376	ppbv	100
10) Heptane	4.969	43	319577	9.560	ppbv	100
11) Trichlorofluoromethane	1.874	101	204850	9.243	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	164598	9.171	ppbv	100
13) Ethanol	1.719	45	9094	7.613	ppbv	100
14) Bromoethene	1.780	108	61824	9.111	ppbv	100
15) Acetone	1.832	43	169676	7.623	ppbv	100
16) 1,3-Butadiene	1.606	39	88812	8.459	ppbv	100
17) tert-Butyl alcohol	2.036	59	230853	9.456	ppbv	100
18) 1,1-Dichloroethene	2.030	96	76184	9.170	ppbv	100
19) Isopropyl Alcohol	1.884	45	122753	9.174	ppbv	100
20) Methylene Chloride	2.059	84	66314	9.992	ppbv	100
21) Allyl Chloride	2.094	41	146473	9.449	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	86580	9.172	ppbv	100
23) Vinyl Acetate	2.460	43	272378	8.566	ppbv	100
24) 1,1-Dichloroethane	2.405	63	169721	9.168	ppbv	100
25) Ethyl Acetate	2.829	43	538761	9.577	ppbv	100
26) Hexane	2.823	57	238896	9.316	ppbv	100
27) Carbon Disulfide	2.146	76	217259	9.446	ppbv	100
28) Methyl tert-Butyl Ether	2.434	73	108987	8.176	ppbv	100
29) Chloroform	2.845	83	315779	9.418	ppbv	100
30) Cyclohexane	3.852	84	203803	9.506	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	231907	9.654	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	325118	8.947	ppbv	100
34) 2-Butanone	2.551	43	344874	9.343	ppbv	100
35) Carbon Tetrachloride	3.755	117	321267	9.480	ppbv	100
36) Benzene	3.651	78	472855	9.561	ppbv	100
37) 1,2-Dichloroethane	3.214	62	247754	9.525	ppbv	100
38) Trichloroethene	4.541	130	224516	9.134	ppbv	100
39) 1,2-Dichloropropane	4.305	63	172059	9.523	ppbv	100
40) 1,4-Dioxane	4.570	88	77889	9.283	ppbv #	100
41) Tetrahydrofuran	3.046	42	204724	9.649	ppbv	100
42) Bromodichloromethane	4.480	83	358858	9.903	ppbv	100
43) Methyl Methacrylate	4.871	69	193676	9.646	ppbv	100
44) 2,2,4-Trimethylpentane	4.632	57	823031	9.631	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	215233	9.969	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042950.D
 Acq On : 22 Sep 2025 09:39
 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 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:08:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

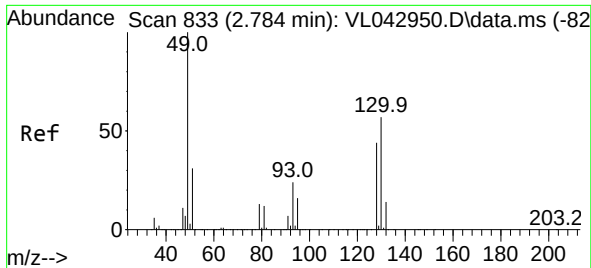
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

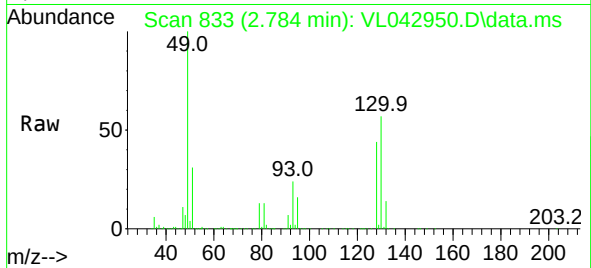
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	275210	10.006	ppbv	100
47) 1,1,2-Trichloroethane	6.571	97	181329	9.498	ppbv	100
48) Dibromochloromethane	7.383	129	300497	9.845	ppbv	100
49) Bromoform	9.480	173	267814	10.087	ppbv	100
50) 4-Methyl-2-Pentanone	5.736	43	492068	9.920	ppbv	100
51) 2-Hexanone	7.428	43	395744	10.036	ppbv #	100
52) Tetrachloroethene	8.218	164	171294	8.951	ppbv	100
53) Toluene	6.923	91	567779	9.699	ppbv	100
54) 1,2-Dibromoethane	7.645	107	257904	9.605	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.921	131	223066	9.575	ppbv	100
57) Chlorobenzene	8.917	112	415238	9.345	ppbv	100
58) Ethyl Benzene	9.348	91	764249	9.562	ppbv	100
59) m/p-Xylene	9.526	91	1192566m	18.913	ppbv	
60) o-Xylene	9.959	91	594329	9.437	ppbv	100
61) Styrene	9.866	104	293111	9.840	ppbv	100
62) Isopropylbenzene	10.536	105	877401	9.347	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.956	83	296678	8.963	ppbv	100
64) n-propylbenzene	10.985	120	230432	9.394	ppbv	100
65) tert-Butylbenzene	11.526	119	757958	9.078	ppbv	100
66) Benzyl Chloride	11.610	91	94982	10.842	ppbv	100
67) sec-Butylbenzene	11.762	105	1066409	9.166	ppbv	100
69) p-Isopropyltoluene	11.921	119	903376	9.192	ppbv	100
70) n-Butylbenzene	12.277	91	915624	9.543	ppbv	100
71) 2-Chlorotoluene	10.895	91	668239	9.428	ppbv	100
72) 4-Ethyltoluene	11.121	105	741298	9.398	ppbv	100
73) 1,3,5-Trimethylbenzene	11.199	105	614632	9.608	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	656535	9.294	ppbv	100
75) 1,3-Dichlorobenzene	11.604	146	411473	9.392	ppbv	100
76) 1,4-Dichlorobenzene	11.668	146	411464	9.456	ppbv	100
77) 1,2-Dichlorobenzene	11.944	146	387219	9.289	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	280080	8.591	ppbv	100
79) Naphthalene	13.510	128	668171	10.696	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	195695	10.142	ppbv	100
81) 1,2,4-Trichlorobenzene	13.436	180	349393	10.461	ppbv	100

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

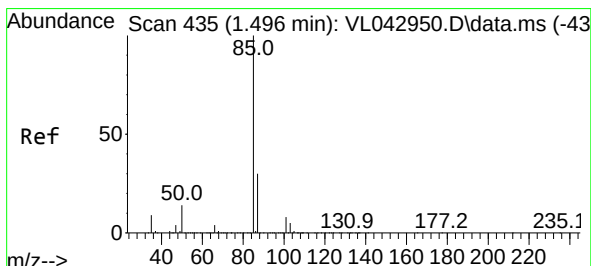
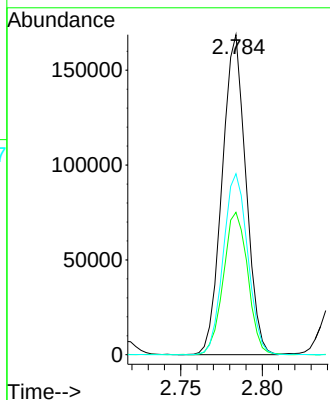
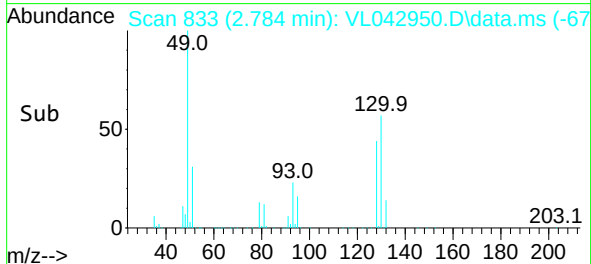
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



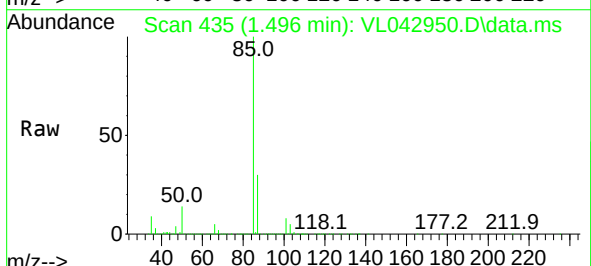
Tgt Ion: 49 Resp: 170899
Ion Ratio Lower Upper
49 100
128 45.9 22.9 68.8
130 58.2 29.1 87.3

Manual Integrations
APPROVED

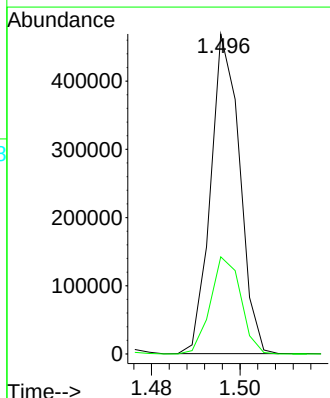
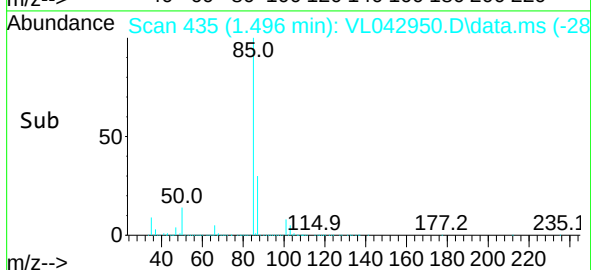
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

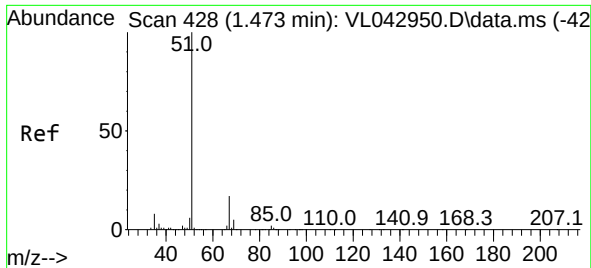


#2
Dichlorodifluoromethane
Concen: 9.282 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



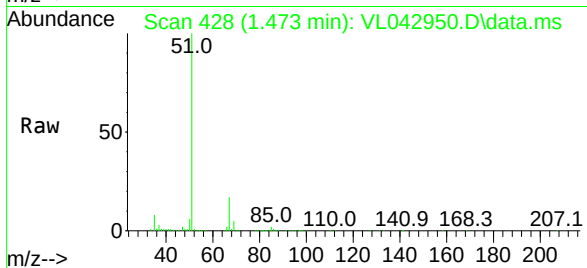
Tgt Ion: 85 Resp: 213351
Ion Ratio Lower Upper
85 100
87 30.4 24.3 36.5





#3
Chlorodifluoromethane
Concen: 9.392 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

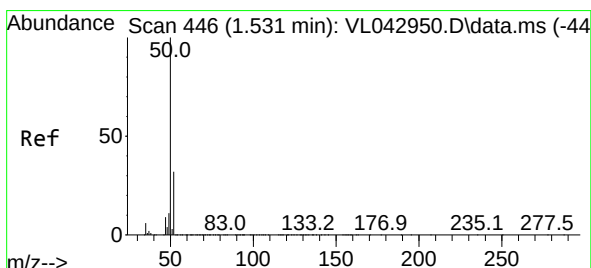
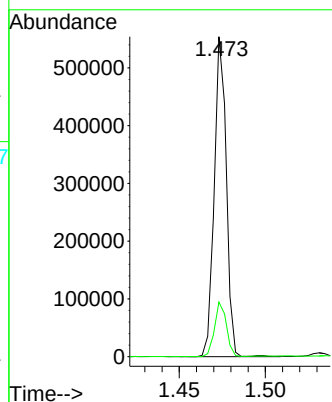
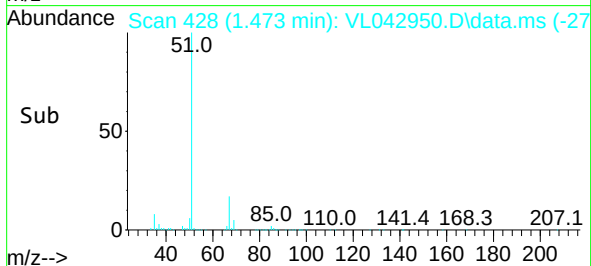
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



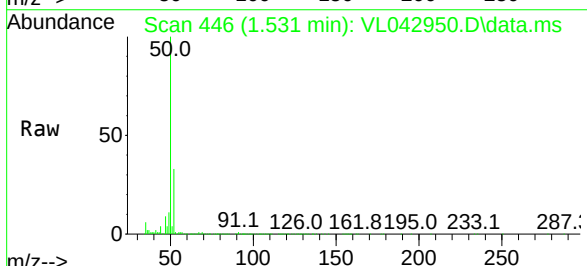
Tgt Ion: 51 Resp: 269073
Ion Ratio Lower Upper
51 100
67 17.3 13.8 20.8

Manual Integrations
APPROVED

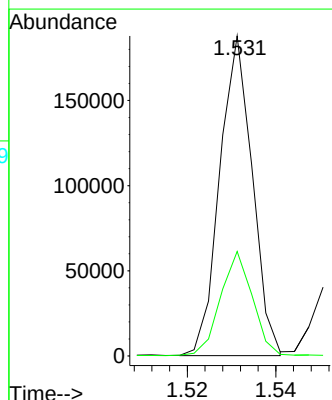
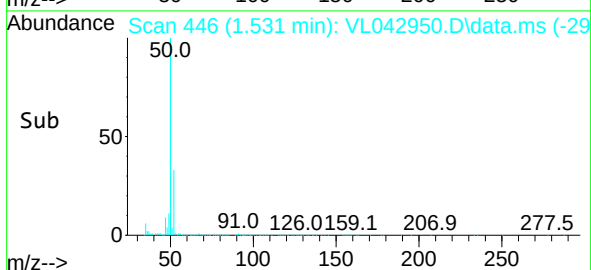
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

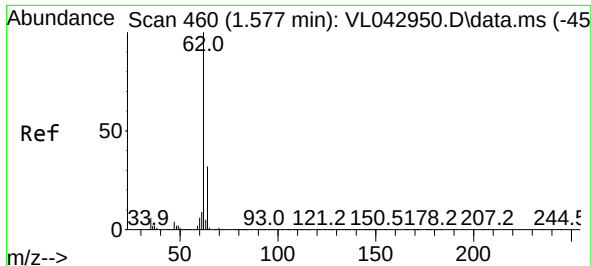


#4
Chloromethane
Concen: 9.196 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



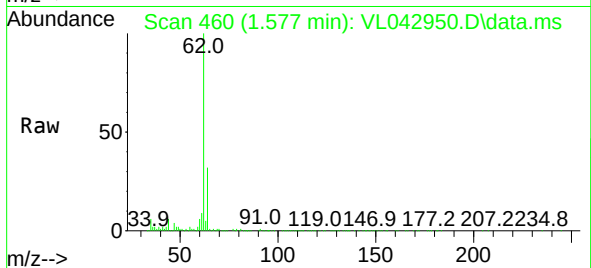
Tgt Ion: 50 Resp: 95679
Ion Ratio Lower Upper
50 100
52 32.4 25.9 38.9





#5
 Vinyl Chloride
 Concen: 8.543 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

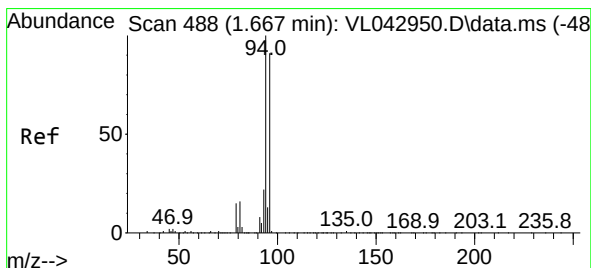
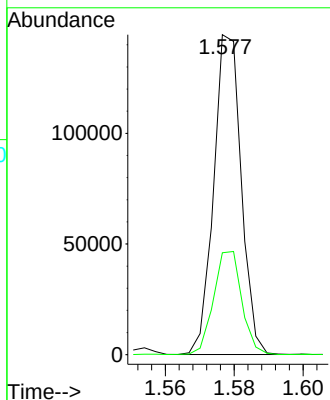
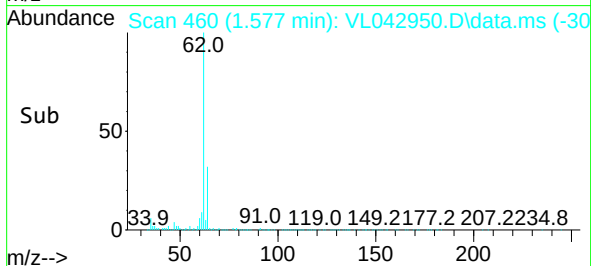
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



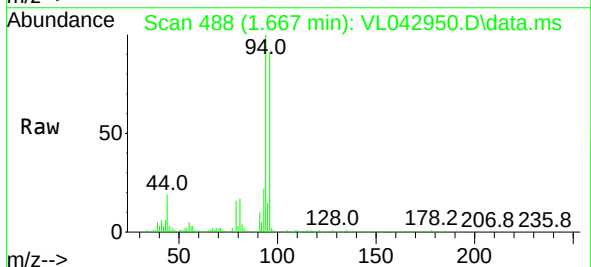
Tgt Ion: 62 Resp: 80350
 Ion Ratio Lower Upper
 62 100
 64 31.8 25.4 38.2

Manual Integrations
 APPROVED

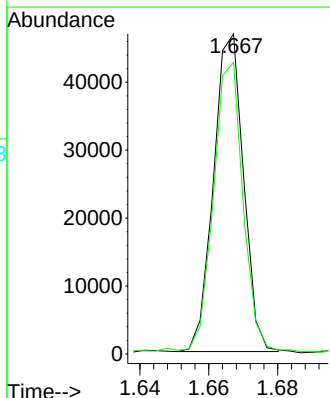
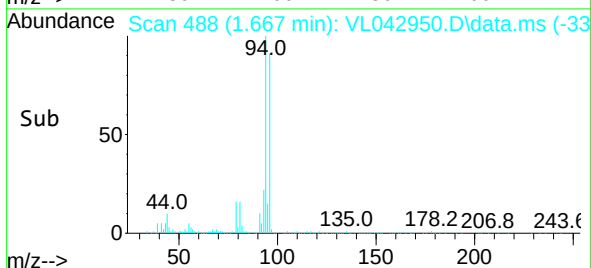
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

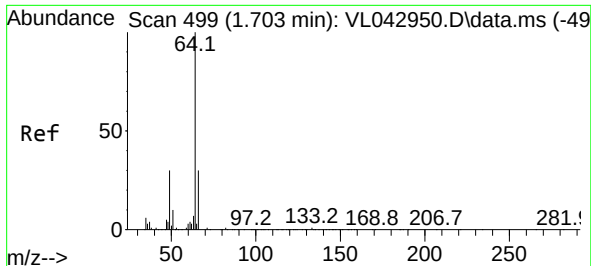


#6
 Bromomethane
 Concen: 8.530 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39



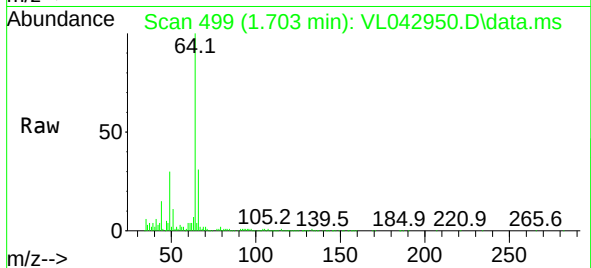
Tgt Ion: 94 Resp: 28301
 Ion Ratio Lower Upper
 94 100
 96 90.7 72.6 108.8





#7
Chloroethane
Concen: 9.158 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

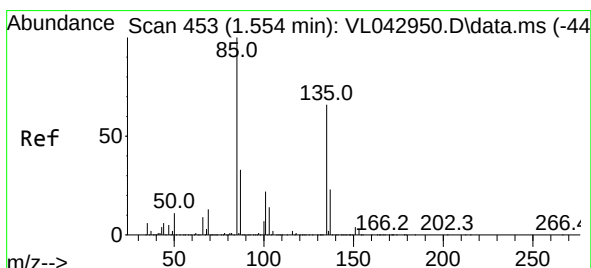
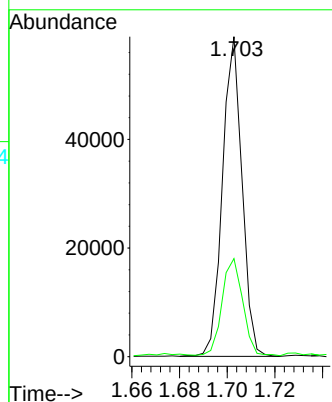
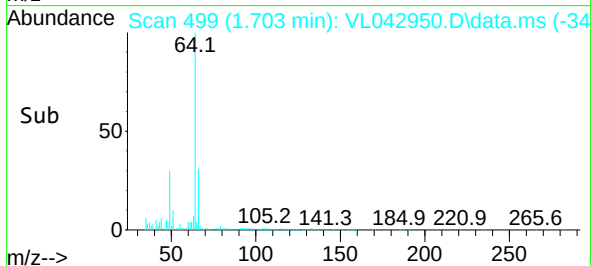
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



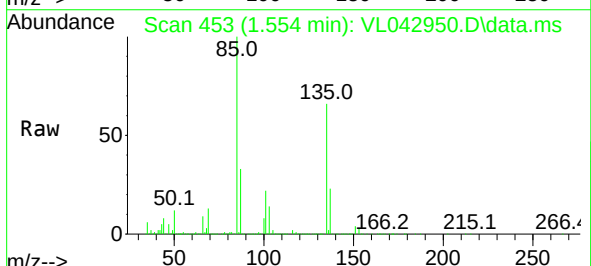
Tgt Ion: 64 Resp: 33440
Ion Ratio Lower Upper
64 100
66 30.7 24.6 36.8

Manual Integrations
APPROVED

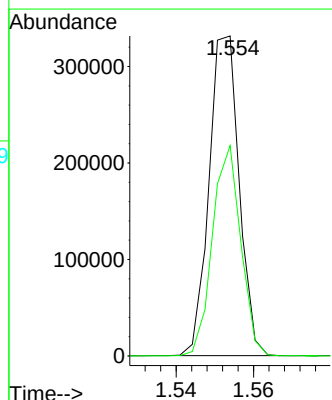
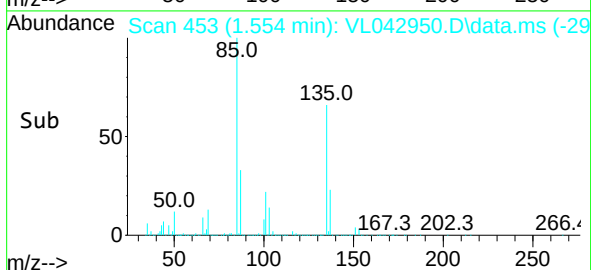
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

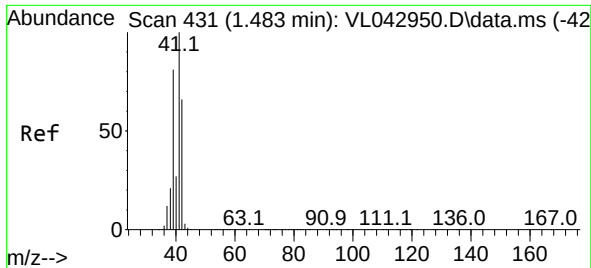


#8
Dichlorotetrafluoroethane
Concen: 9.122 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



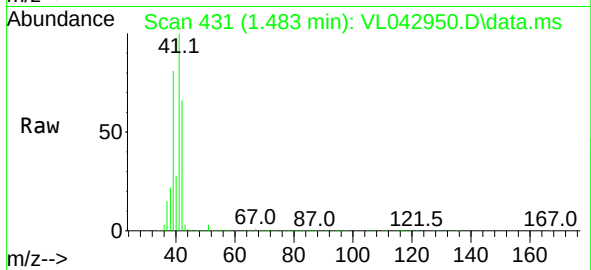
Tgt Ion: 85 Resp: 178992
Ion Ratio Lower Upper
85 100
135 62.1 49.7 74.5





#9
 Propene
 Concen: 9.376 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

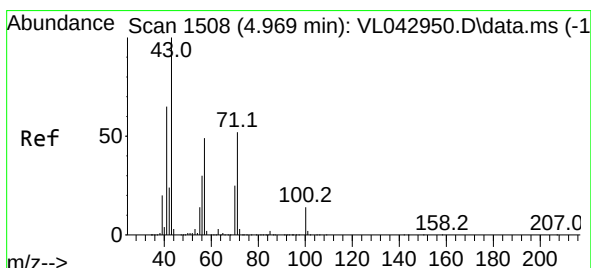
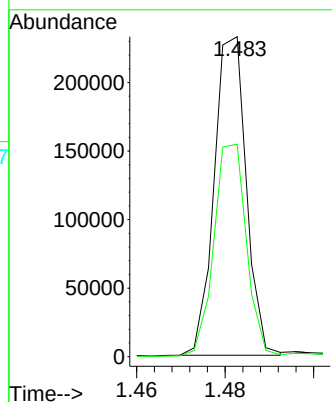
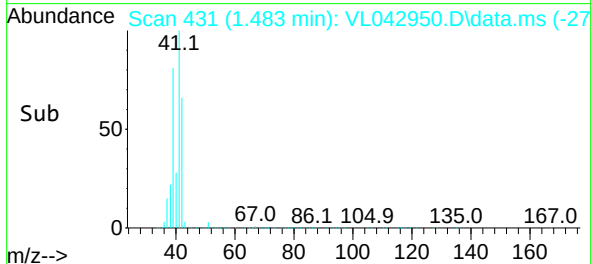
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



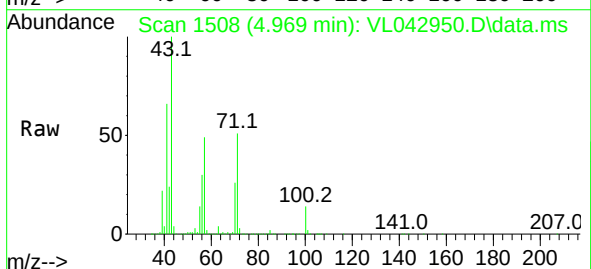
Tgt Ion: 41 Resp: 116849
 Ion Ratio Lower Upper
 41 100
 42 71.8 57.4 86.2

Manual Integrations
 APPROVED

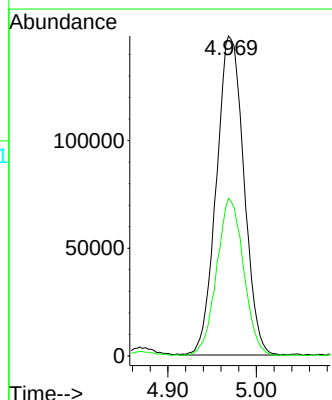
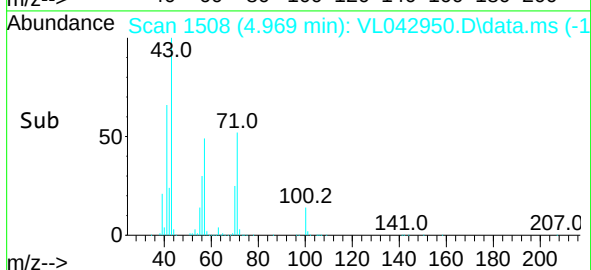
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

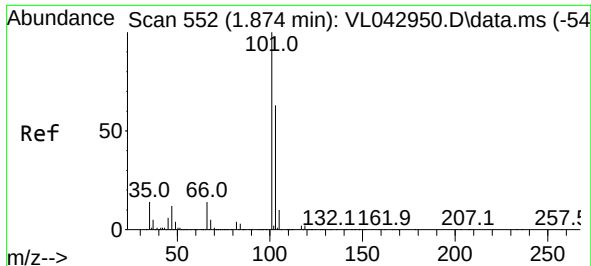


#10
 Heptane
 Concen: 9.560 ppbv
 RT: 4.969 min Scan# 1508
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39



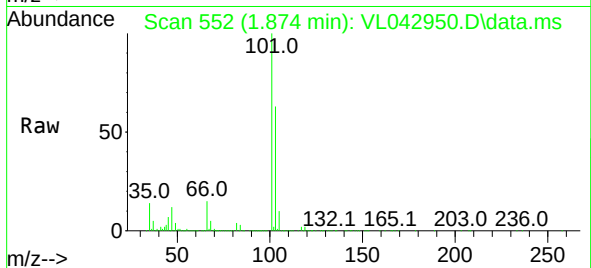
Tgt Ion: 43 Resp: 319577
 Ion Ratio Lower Upper
 43 100
 57 48.2 38.6 57.8





#11
 Trichlorofluoromethane
 Concen: 9.243 ppbv
 RT: 1.874 min Scan# 552
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

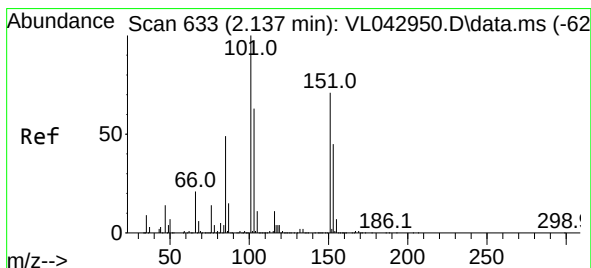
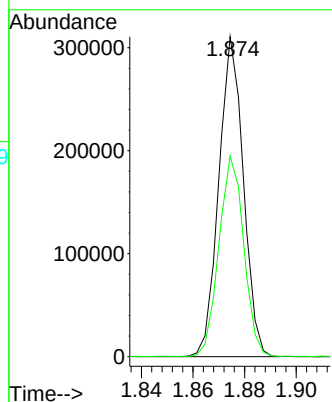
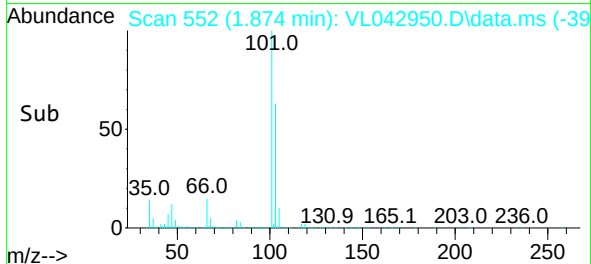
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



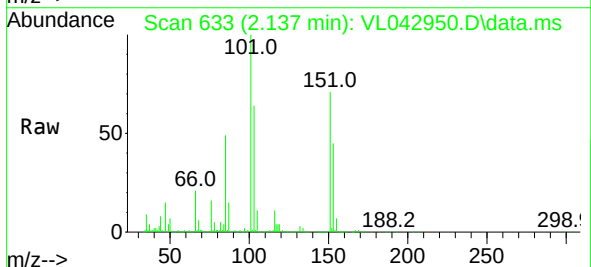
Tgt Ion:101 Resp: 204850
 Ion Ratio Lower Upper
 101 100
 103 62.6 50.1 75.1

Manual Integrations
 APPROVED

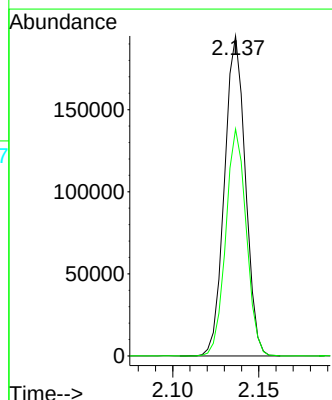
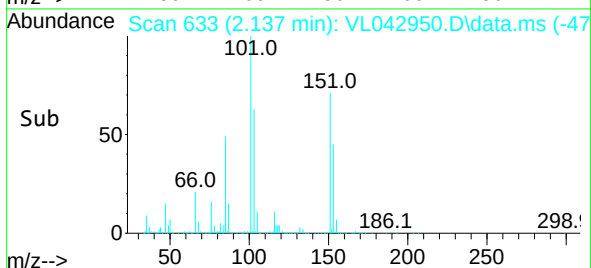
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

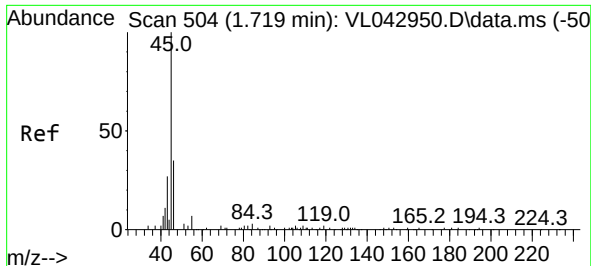


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.171 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39



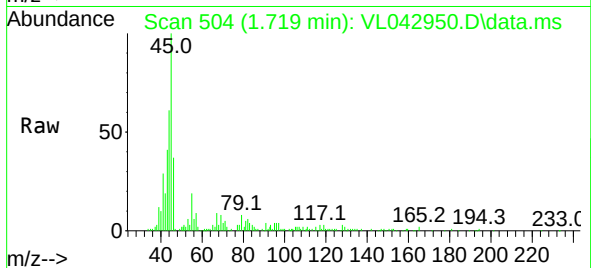
Tgt Ion:101 Resp: 164598
 Ion Ratio Lower Upper
 101 100
 151 69.6 55.7 83.5





#13
Ethanol
Concen: 7.613 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

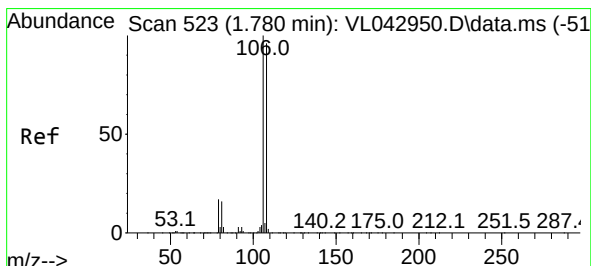
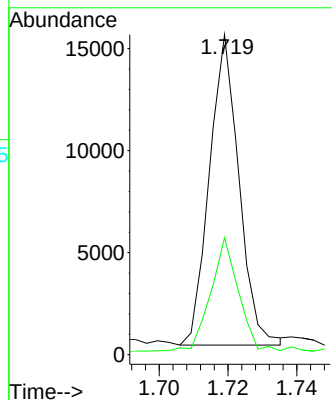
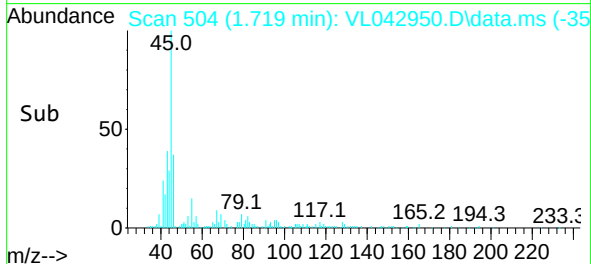
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



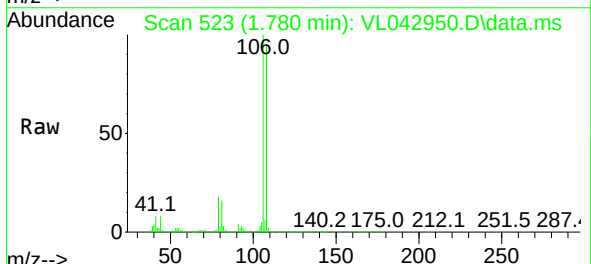
Tgt Ion: 45 Resp: 9094
Ion Ratio Lower Upper
45 100
46 40.4 16.2 64.6

Manual Integrations
APPROVED

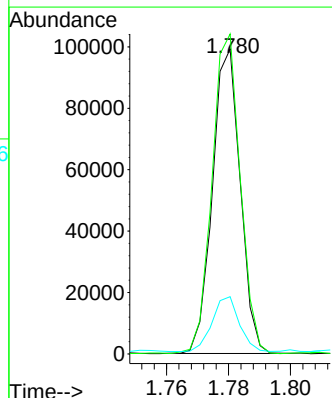
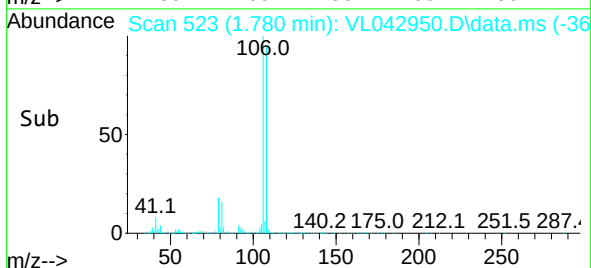
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

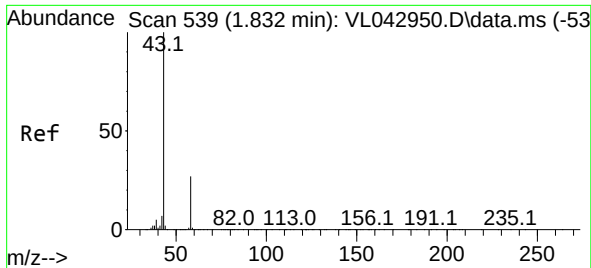


#14
Bromoethene
Concen: 9.111 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



Tgt Ion:108 Resp: 61824
Ion Ratio Lower Upper
108 100
106 107.5 86.0 129.0
79 17.7 14.2 21.2





#15

Acetone

Concen: 7.623 ppbv

RT: 1.832 min Scan# 539

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 169670

Ion Ratio Lower Upper

43 100

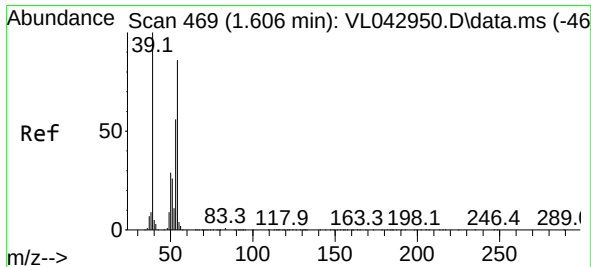
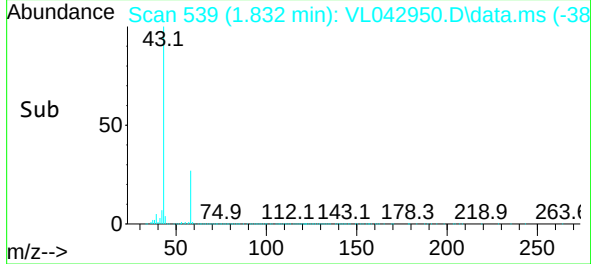
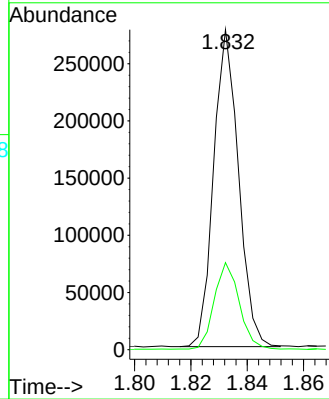
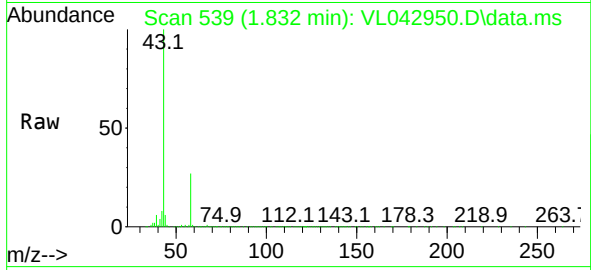
58 27.9 22.3 33.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#16

1,3-Butadiene

Concen: 8.459 ppbv

RT: 1.606 min Scan# 469

Delta R.T. 0.000 min

Lab File: VL042950.D

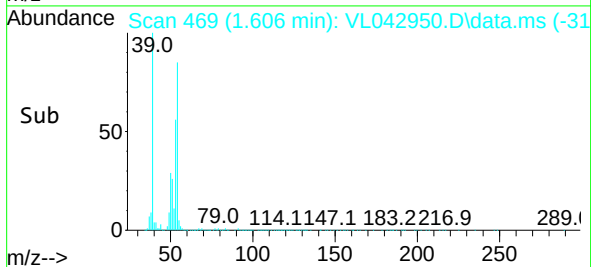
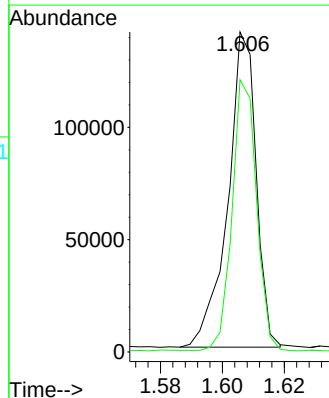
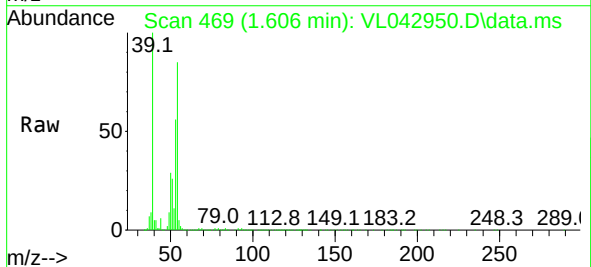
Acq: 22 Sep 2025 09:39

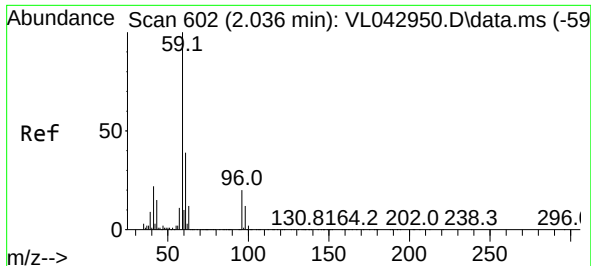
Tgt Ion: 39 Resp: 88812

Ion Ratio Lower Upper

39 100

54 76.0 60.8 91.2





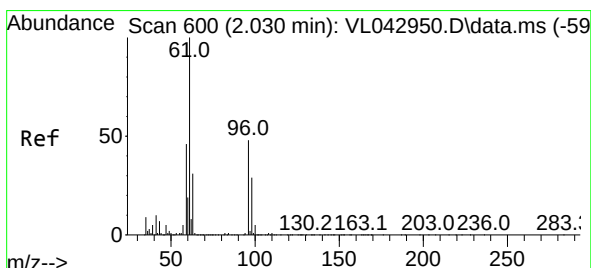
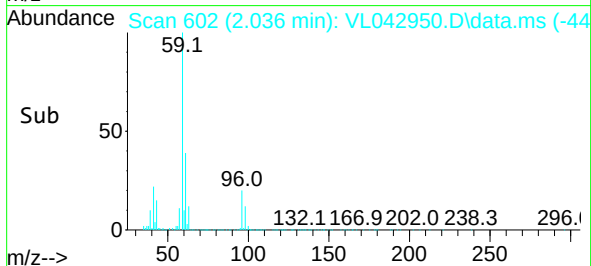
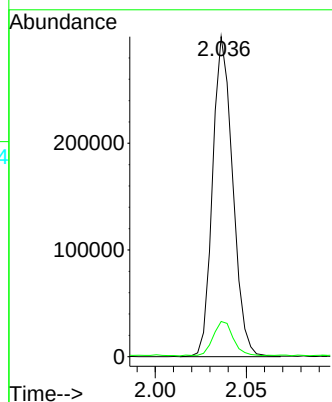
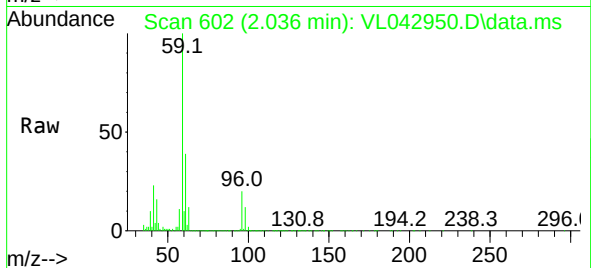
#17
tert-Butyl alcohol
Concen: 9.456 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 59 Resp: 23085
Ion Ratio Lower Upper
59 100
57 10.7 8.6 12.8

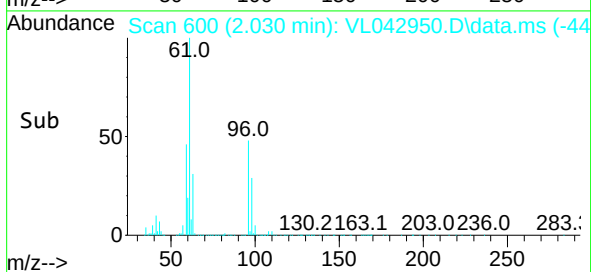
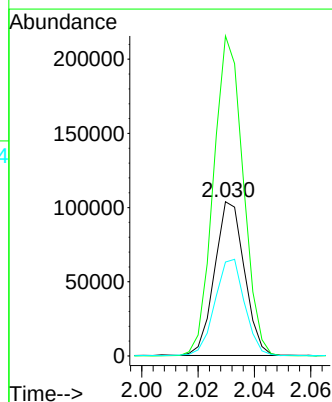
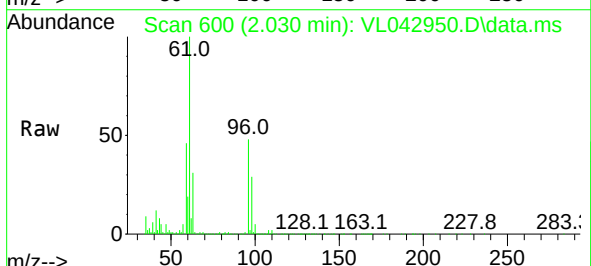
Manual Integrations
APPROVED

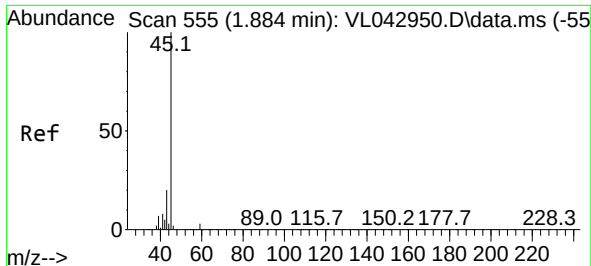
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#18
1,1-Dichloroethene
Concen: 9.170 ppbv
RT: 2.030 min Scan# 600
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

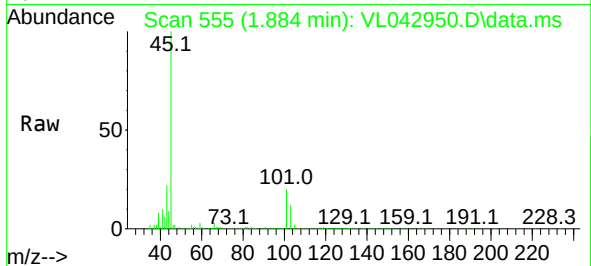
Tgt Ion: 96 Resp: 76184
Ion Ratio Lower Upper
96 100
61 207.8 166.2 249.4
98 60.8 48.6 73.0





#19
Isopropyl Alcohol
Concen: 9.174 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

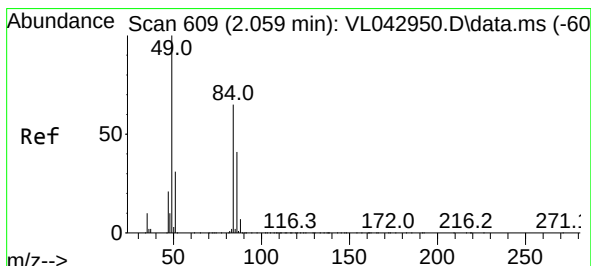
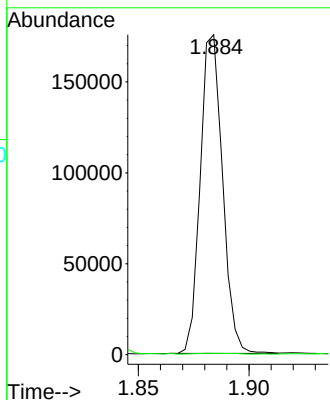
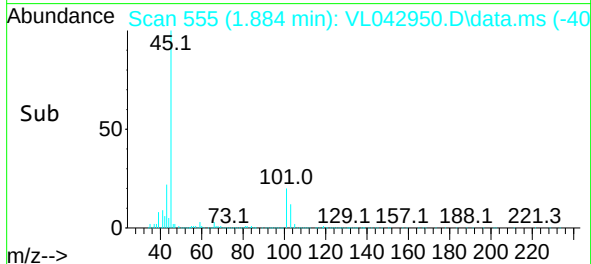
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



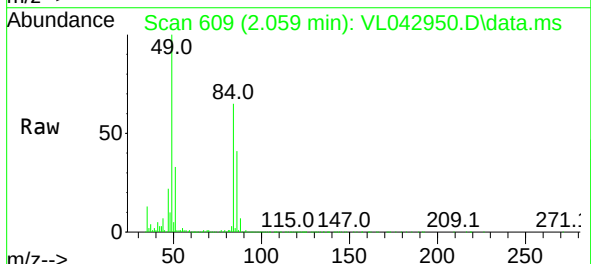
Tgt Ion: 45 Resp: 12275
Ion Ratio Lower Upper
45 100
58 38.8 31.0 46.6

Manual Integrations
APPROVED

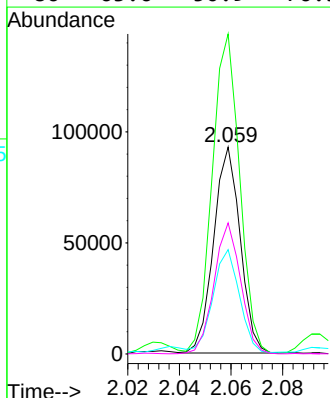
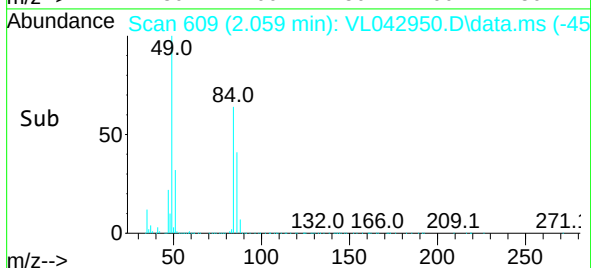
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

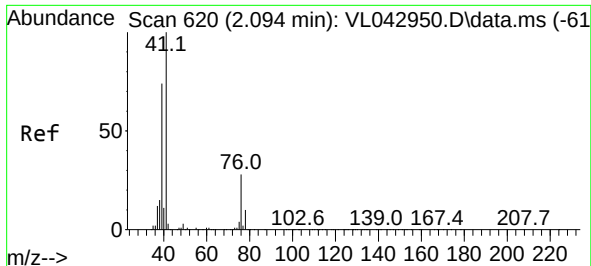


#20
Methylene Chloride
Concen: 9.992 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



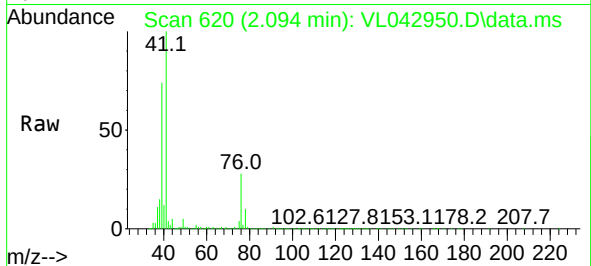
Tgt Ion: 84 Resp: 66314
Ion Ratio Lower Upper
84 100
49 155.1 124.1 186.1
51 49.8 39.8 59.8
86 63.6 50.9 76.3





#21
 Allyl Chloride
 Concen: 9.449 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

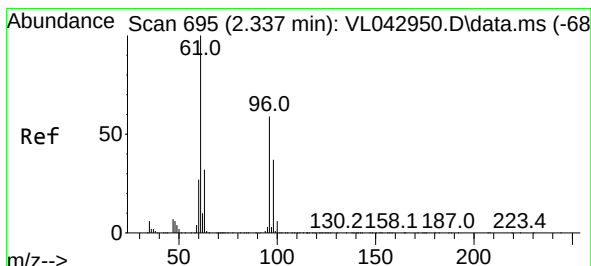
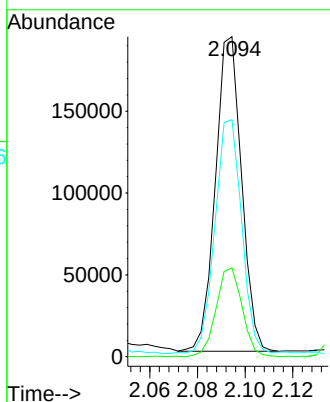
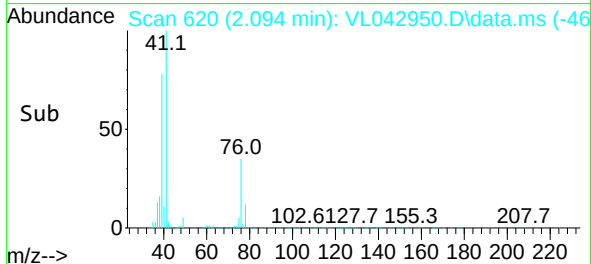
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



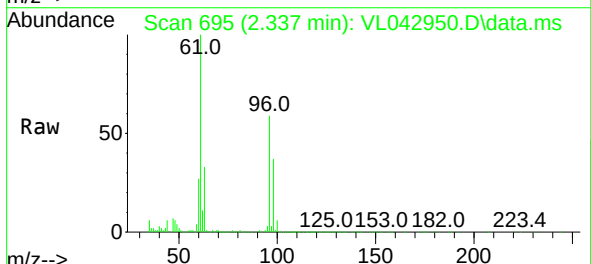
Tgt Ion: 41 Resp: 14647
 Ion Ratio Lower Upper
 41 100
 76 27.9 22.3 33.5
 39 76.6 61.3 91.9

Manual Integrations
 APPROVED

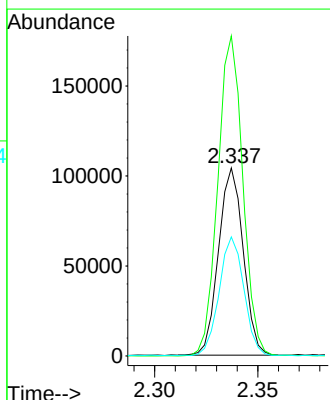
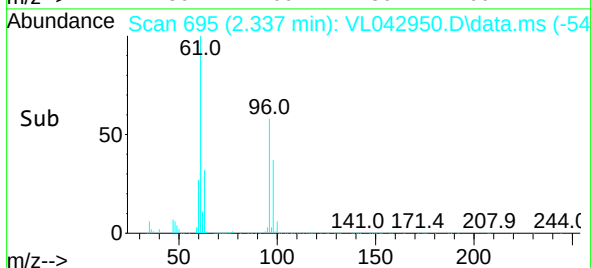
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

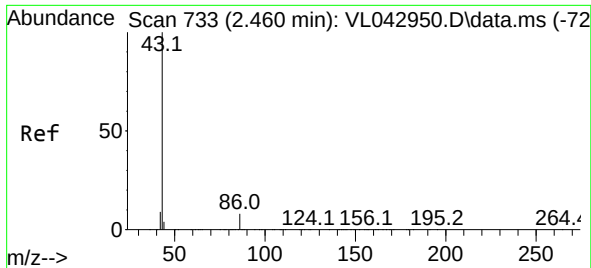


#22
 trans-1,2-Dichloroethene
 Concen: 9.172 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39



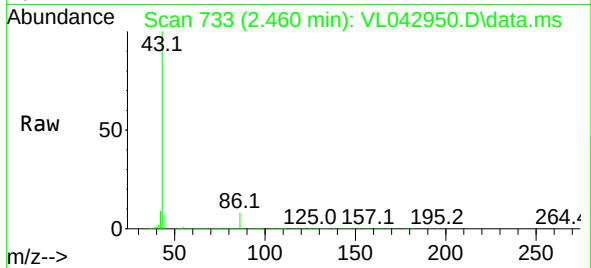
Tgt Ion: 96 Resp: 86580
 Ion Ratio Lower Upper
 96 100
 61 170.6 136.5 204.7
 98 63.3 50.6 76.0





#23
 Vinyl Acetate
 Concen: 8.566 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

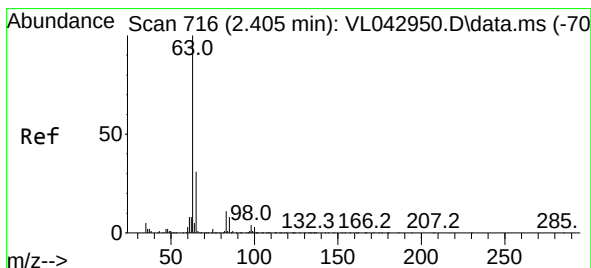
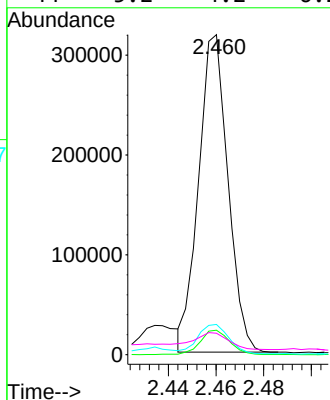
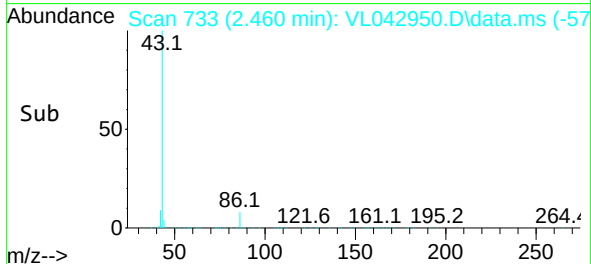
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



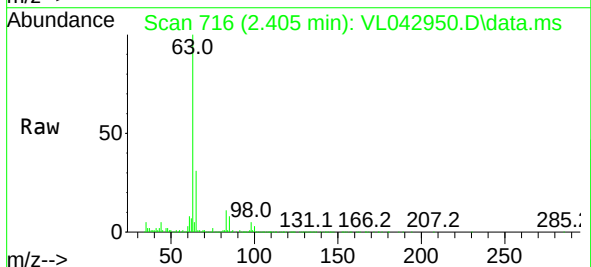
Tgt Ion: 43 Resp: 272378
 Ion Ratio Lower Upper
 43 100
 86 7.7 6.2 9.2
 42 9.2 7.4 11.0
 44 5.2 4.2 6.2

Manual Integrations
 APPROVED

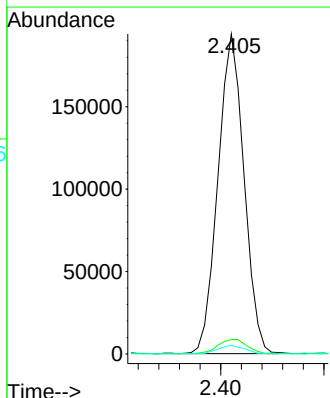
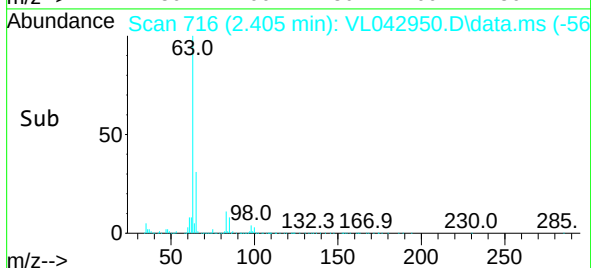
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

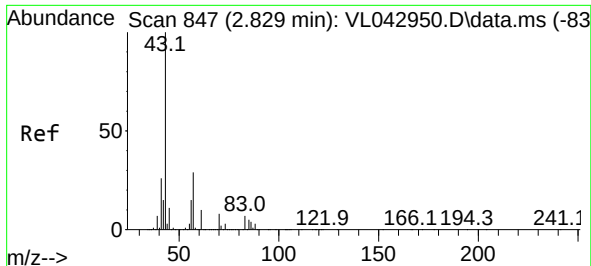


#24
 1,1-Dichloroethane
 Concen: 9.168 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39



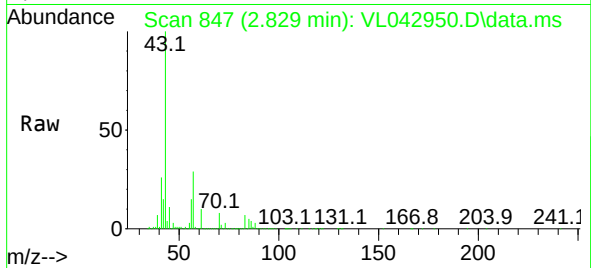
Tgt Ion: 63 Resp: 169721
 Ion Ratio Lower Upper
 63 100
 98 4.4 2.2 6.6
 100 2.7 1.4 4.0





#25
Ethyl Acetate
Concen: 9.577 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

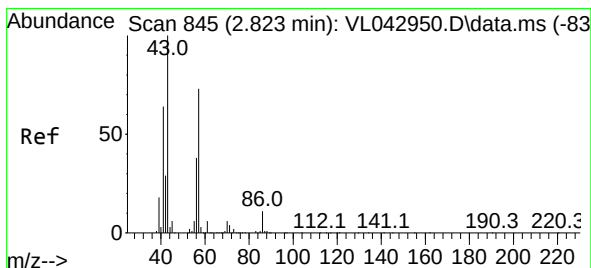
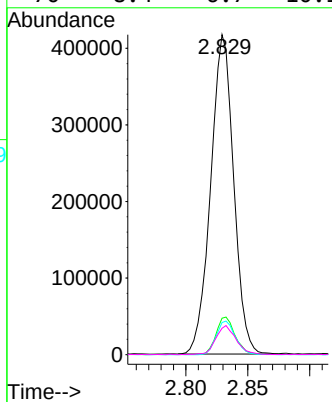
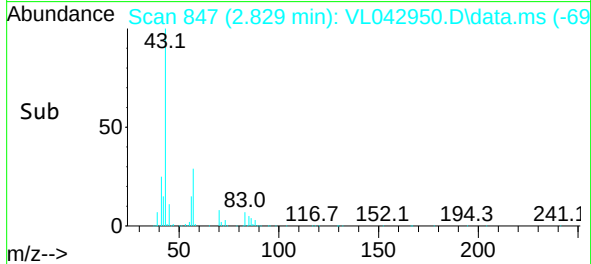
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



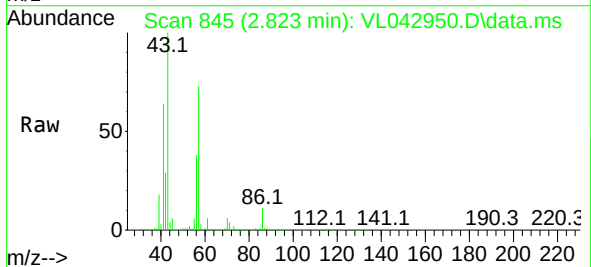
Tgt Ion: 43 Resp: 53876
Ion Ratio Lower Upper
43 100
45 9.6 7.7 11.5
61 8.9 7.1 10.7
70 8.4 6.7 10.1

Manual Integrations
APPROVED

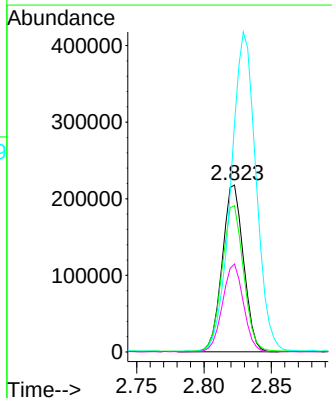
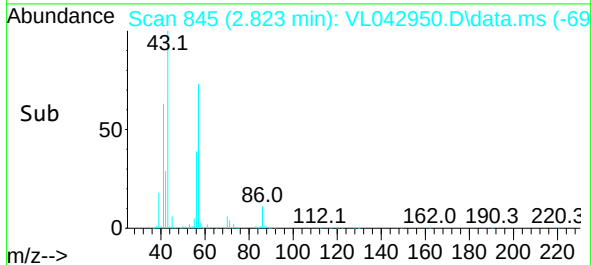
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

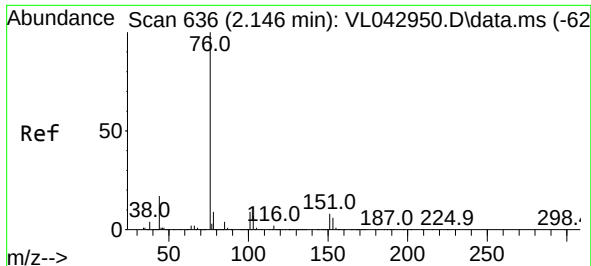


#26
Hexane
Concen: 9.316 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



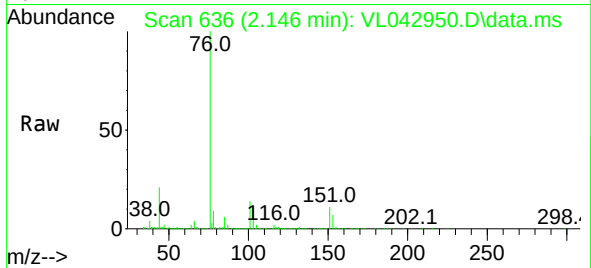
Tgt Ion: 57 Resp: 238896
Ion Ratio Lower Upper
57 100
41 89.6 71.7 107.5
43 226.0 180.8 271.2
56 51.7 41.4 62.0





#27
Carbon Disulfide
Concen: 9.446 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

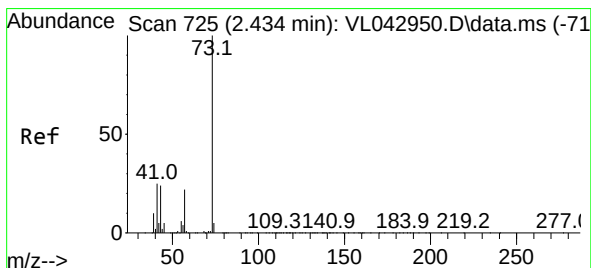
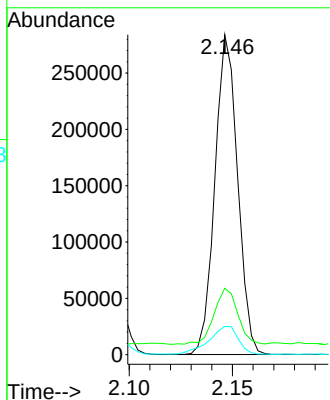
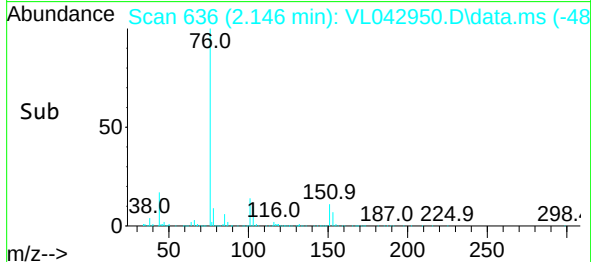
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



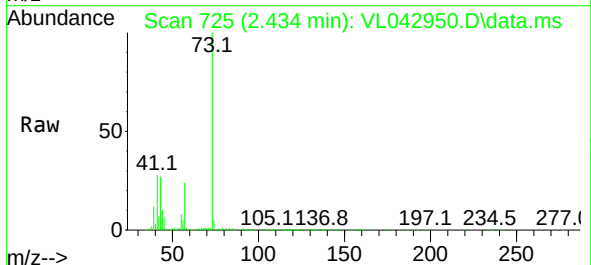
Tgt Ion: 76 Resp: 217259
Ion Ratio Lower Upper
76 100
44 19.5 15.6 23.4
78 11.1 8.9 13.3

Manual Integrations
APPROVED

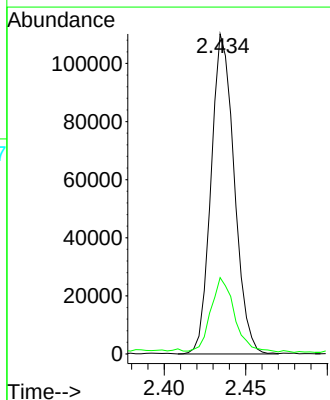
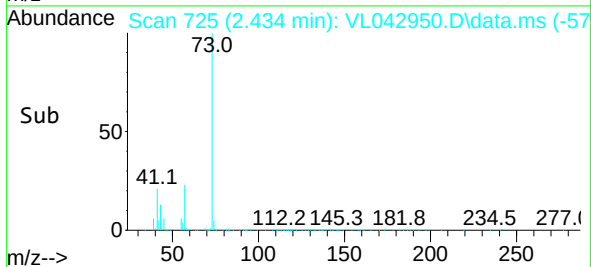
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

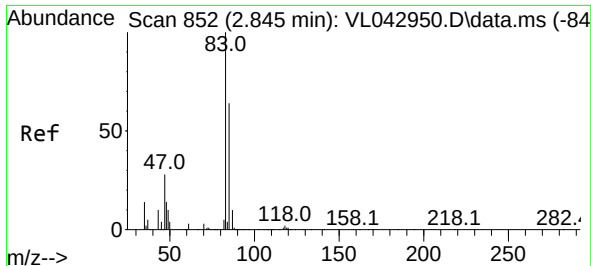


#28
Methyl tert-Butyl Ether
Concen: 8.176 ppbv
RT: 2.434 min Scan# 725
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



Tgt Ion: 73 Resp: 108987
Ion Ratio Lower Upper
73 100
57 25.8 20.6 31.0





#29

Chloroform

Concen: 9.418 ppbv

RT: 2.845 min Scan# 852

Delta R.T. 0.000 min

Lab File: VL042950.D

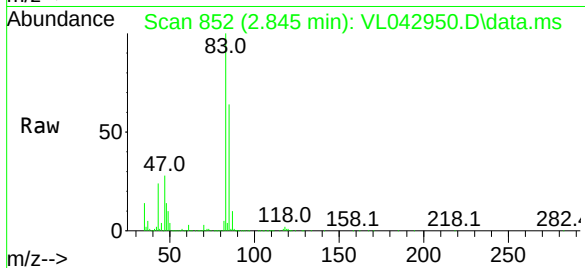
Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

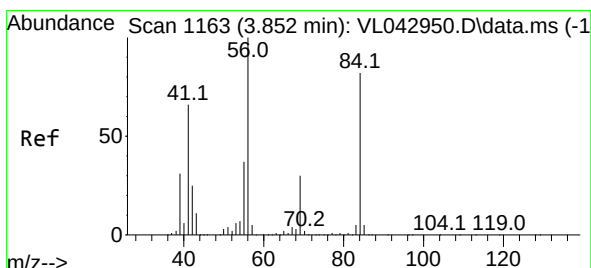
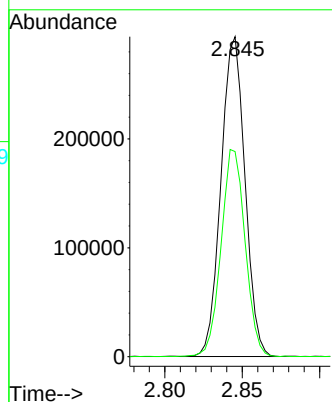
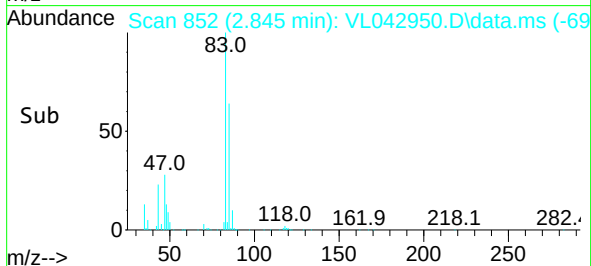


Tgt Ion:	83	Resp:	315779
Ion Ratio	100	Lower	Upper
83	100		
85	64.0	51.2	76.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#30

Cyclohexane

Concen: 9.506 ppbv

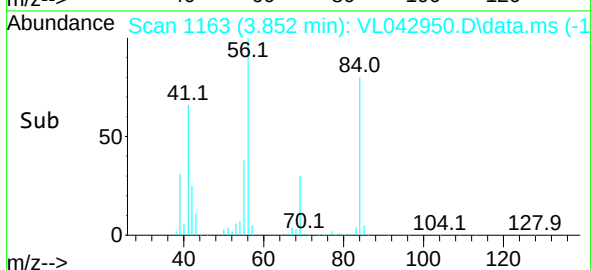
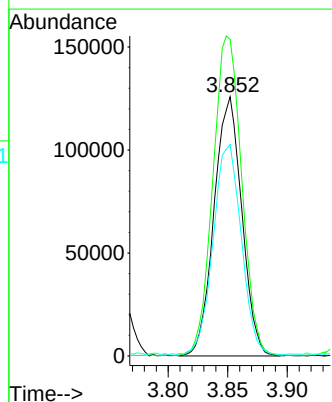
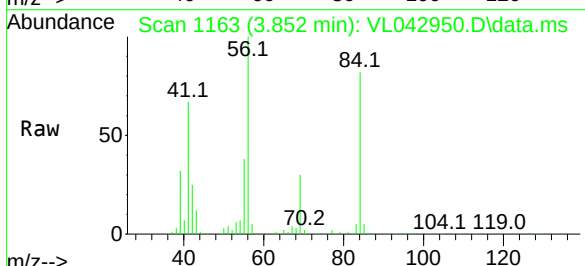
RT: 3.852 min Scan# 1163

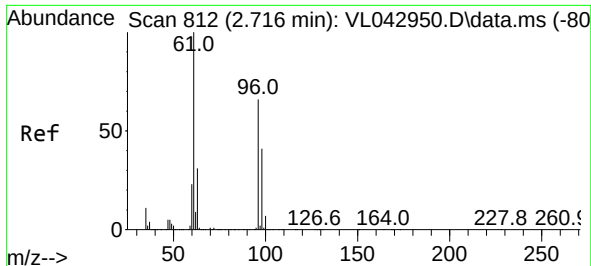
Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

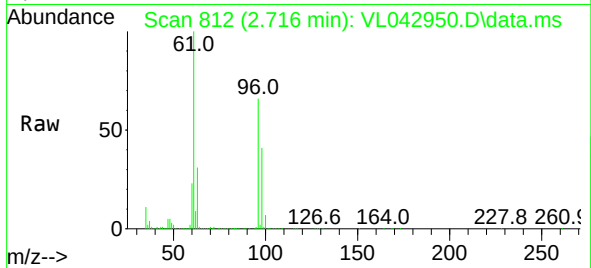
Tgt Ion:	84	Resp:	203803
Ion Ratio	100	Lower	Upper
84	100		
56	127.8	102.2	153.4
41	82.0	65.6	98.4





#31
 cis-1,2-Dichloroethene
 Concen: 9.654 ppbv
 RT: 2.716 min Scan# 812
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

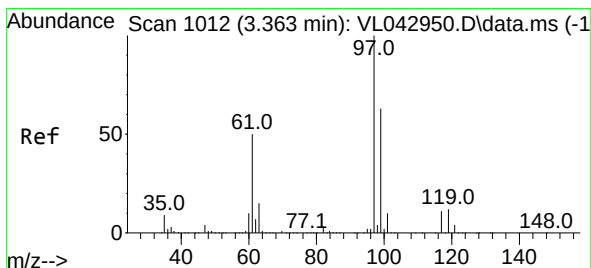
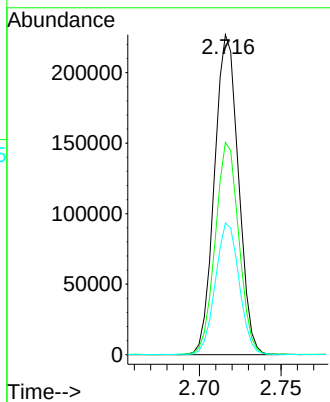
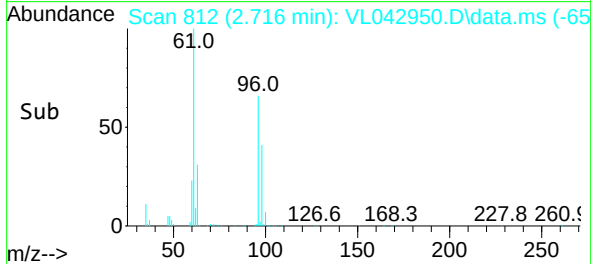
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



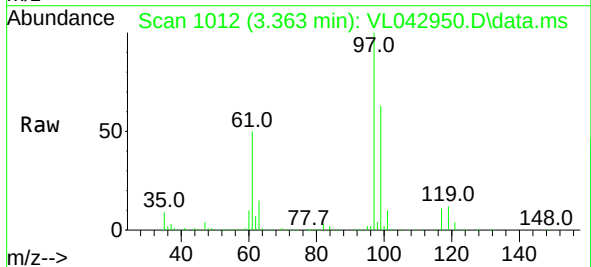
Tgt Ion: 61 Resp: 23190
 Ion Ratio Lower Upper
 61 100
 96 66.3 53.0 79.6
 98 41.1 32.9 49.3

Manual Integrations
 APPROVED

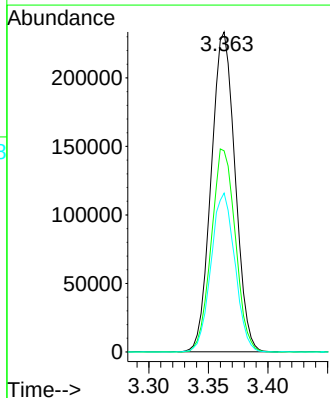
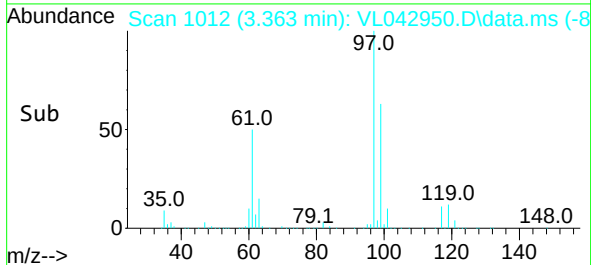
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

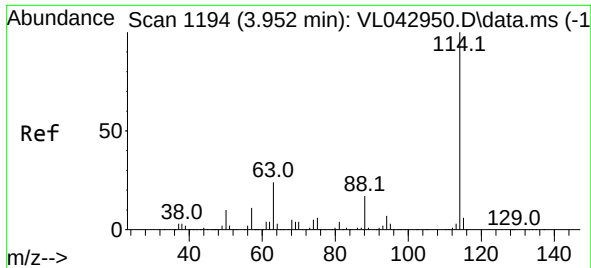


#32
 1,1,1-Trichloroethane
 Concen: 8.947 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39



Tgt Ion: 97 Resp: 325118
 Ion Ratio Lower Upper
 97 100
 99 63.9 51.1 76.7
 61 49.7 39.8 59.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_L

ClientSampleId :

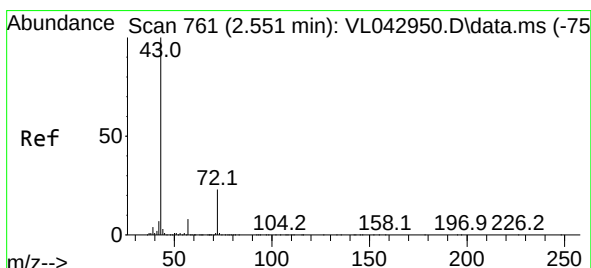
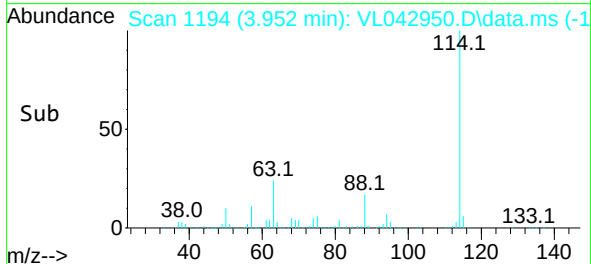
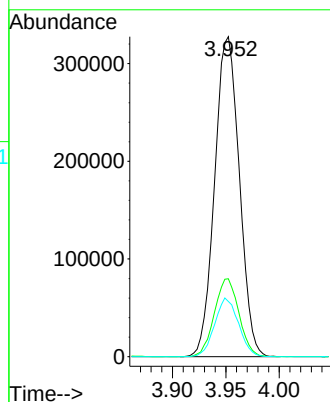
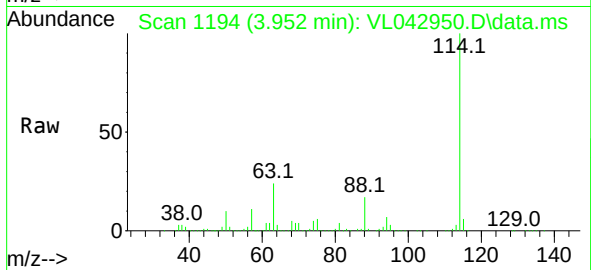
VSTDICCC010

Tgt Ion:114	Resp: 526679
Ion Ratio	Lower Upper
114 100	
63 24.3	19.4 29.2
88 17.7	14.2 21.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#34

2-Butanone

Concen: 9.343 ppbv

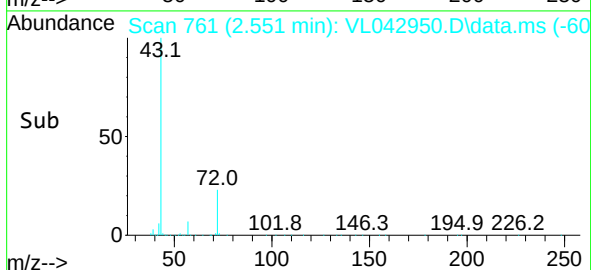
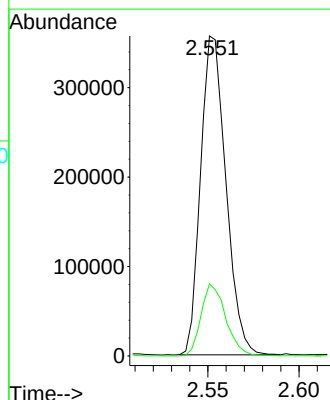
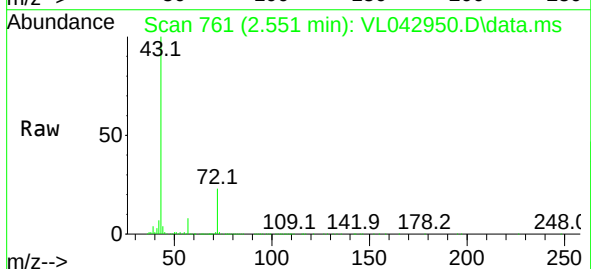
RT: 2.551 min Scan# 761

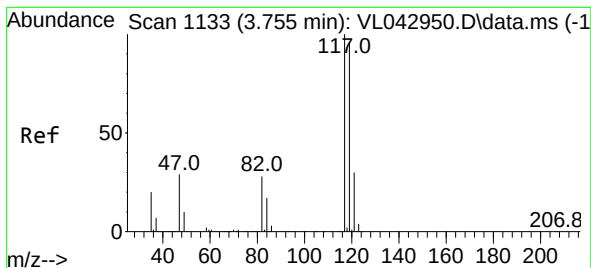
Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Tgt Ion: 43	Resp: 344874
Ion Ratio	Lower Upper
43 100	
72 22.1	17.7 26.5





#35

Carbon Tetrachloride

Concen: 9.480 ppbv

RT: 3.755 min Scan# 1133

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_L

ClientSampleId :

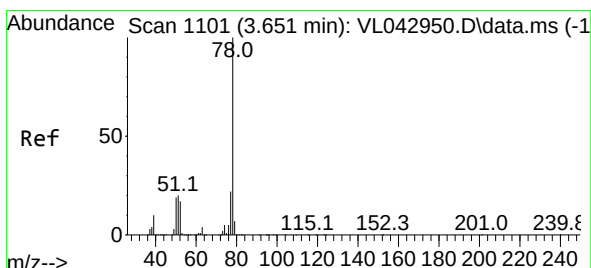
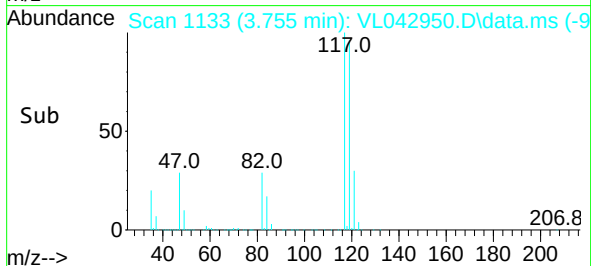
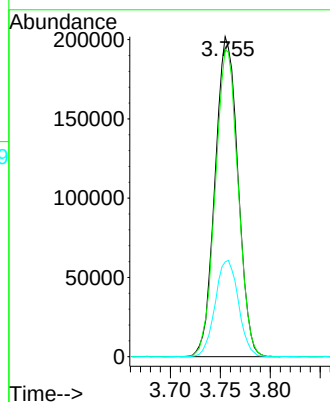
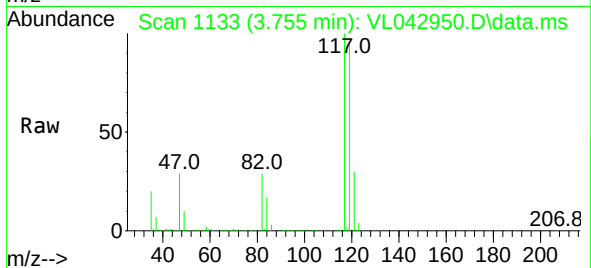
VSTDICCC010

Tgt Ion:	117	Resp:	32126
Ion	Ratio	Lower	Upper
117	100		
119	96.1	76.9	115.3
121	29.6	23.7	35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#36

Benzene

Concen: 9.561 ppbv

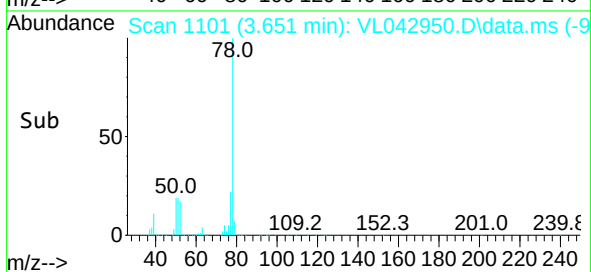
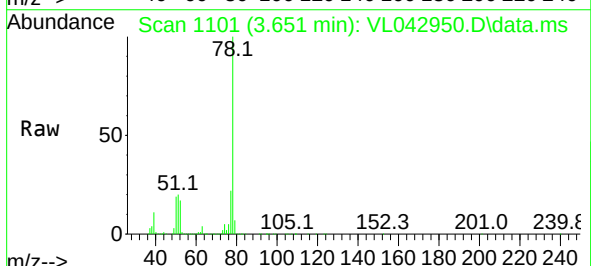
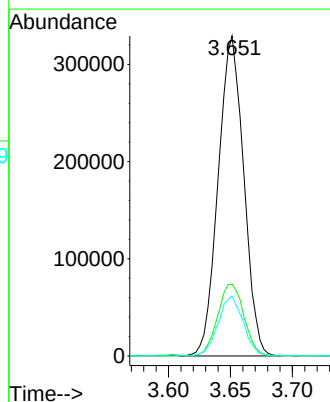
RT: 3.651 min Scan# 1101

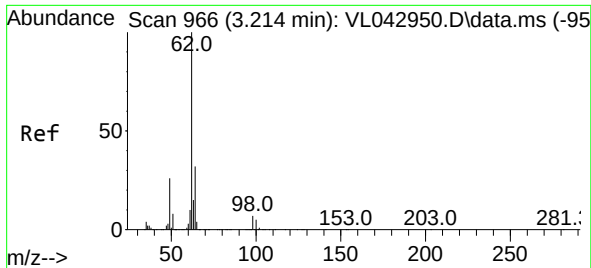
Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

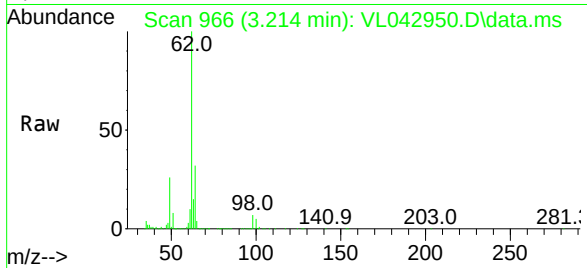
Tgt Ion:	78	Resp:	472855
Ion	Ratio	Lower	Upper
78	100		
77	22.2	17.8	26.6
50	18.7	15.0	22.4





#37
1,2-Dichloroethane
Concen: 9.525 ppbv
RT: 3.214 min Scan# 966
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

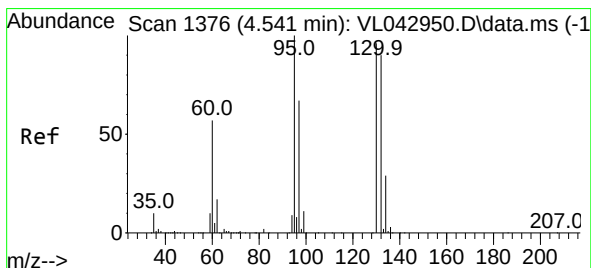
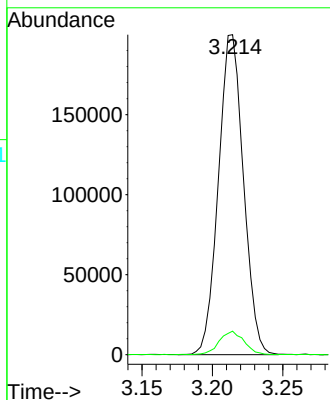
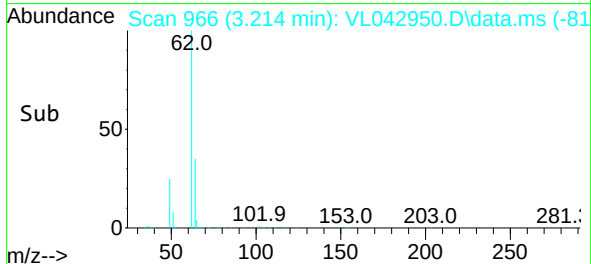
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



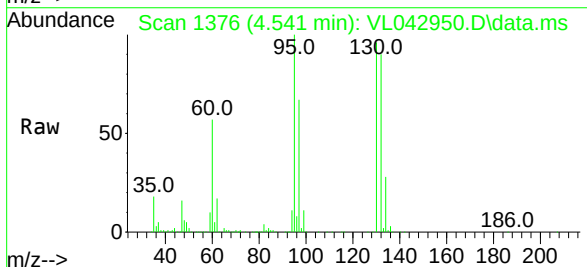
Tgt Ion: 62 Resp: 247754
Ion Ratio Lower Upper
62 100
98 7.4 5.9 8.9

Manual Integrations
APPROVED

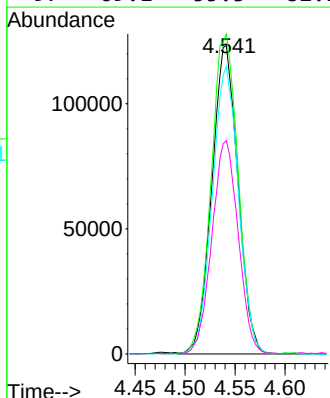
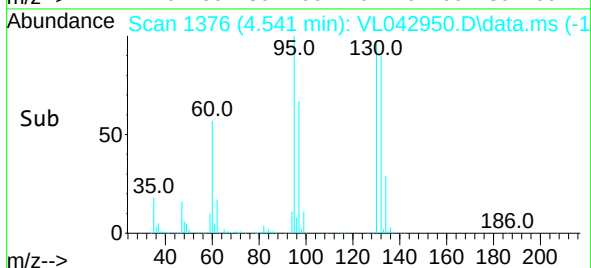
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

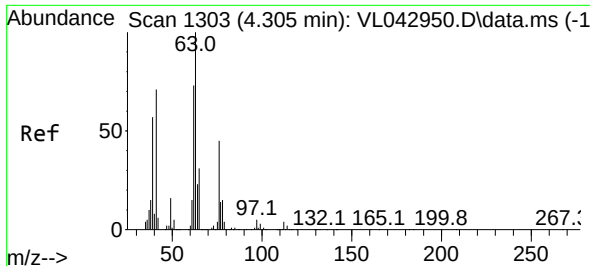


#38
Trichloroethene
Concen: 9.134 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



Tgt Ion:130 Resp: 224516
Ion Ratio Lower Upper
130 100
95 103.7 83.0 124.4
132 93.3 74.6 112.0
97 69.1 55.3 82.9





#39

1,2-Dichloropropane

Concen: 9.523 ppbv

RT: 4.305 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_L

ClientSampleId :

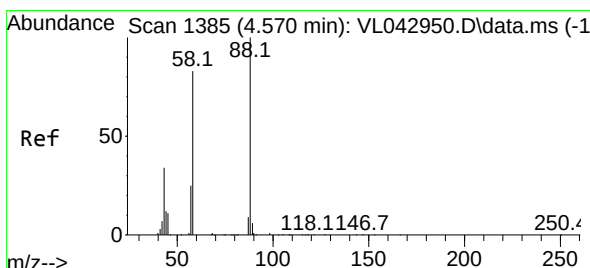
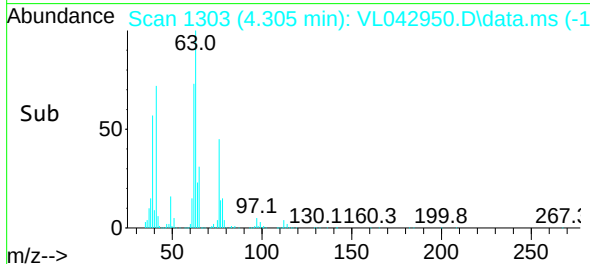
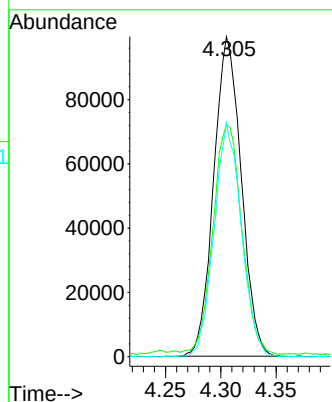
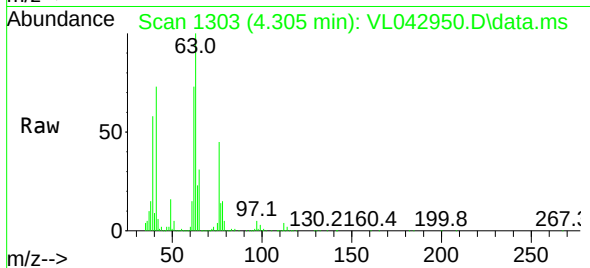
VSTDICCC010

Tgt Ion: 63	Resp: 17205
Ion Ratio	Lower Upper
63 100	
41 71.9	57.5 86.3
62 73.1	58.5 87.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#40

1,4-Dioxane

Concen: 9.283 ppbv

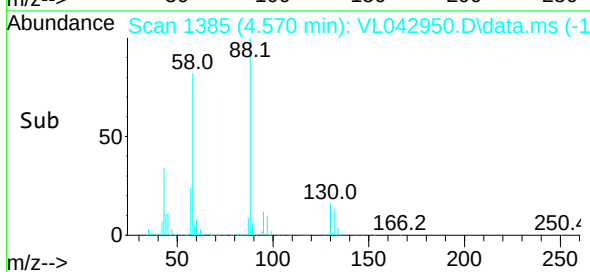
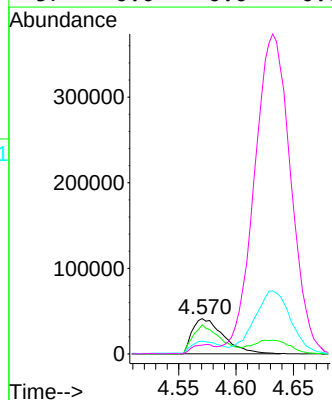
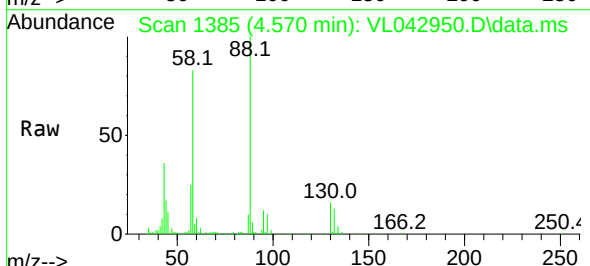
RT: 4.570 min Scan# 1385

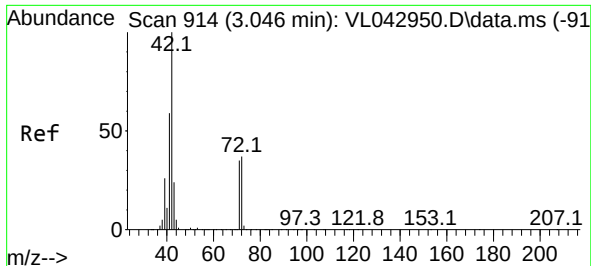
Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

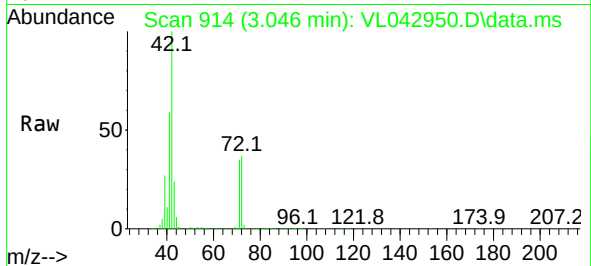
Tgt Ion: 88	Resp: 77889
Ion Ratio	Lower Upper
88 100	
58 74.6	59.7 89.5
43 36.1	28.9 43.3
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 9.649 ppbv
RT: 3.046 min Scan# 914
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

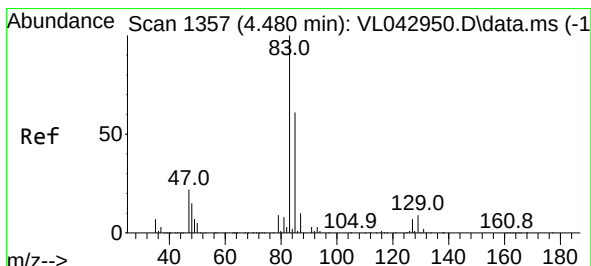
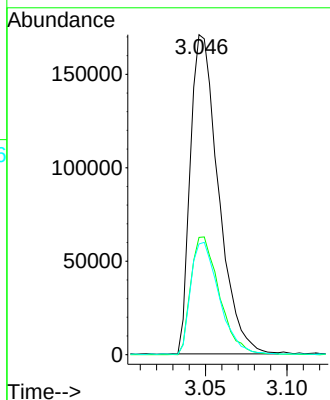
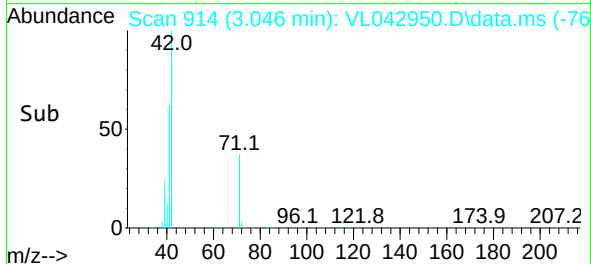
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



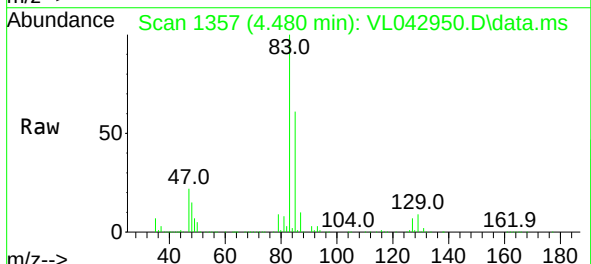
Tgt Ion: 42 Resp: 204724
Ion Ratio Lower Upper
42 100
72 37.5 30.0 45.0
71 36.0 28.8 43.2

Manual Integrations
APPROVED

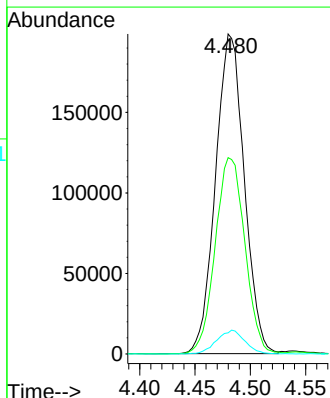
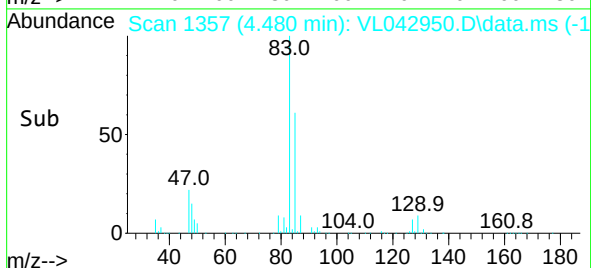
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

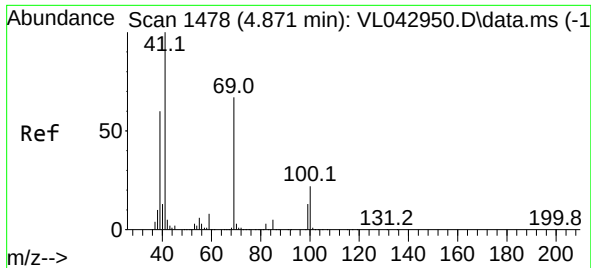


#42
Bromodichloromethane
Concen: 9.903 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



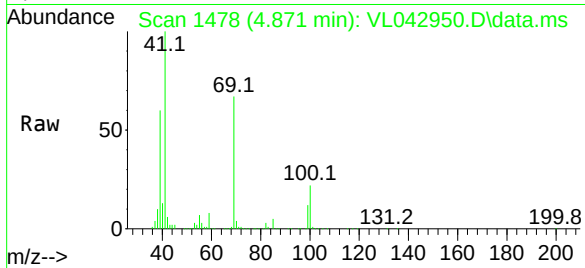
Tgt Ion: 83 Resp: 358858
Ion Ratio Lower Upper
83 100
85 61.3 49.0 73.6
127 6.6 5.3 7.9





#43
Methyl Methacrylate
Concen: 9.646 ppbv
RT: 4.871 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

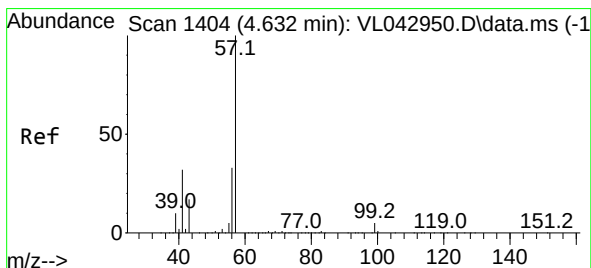
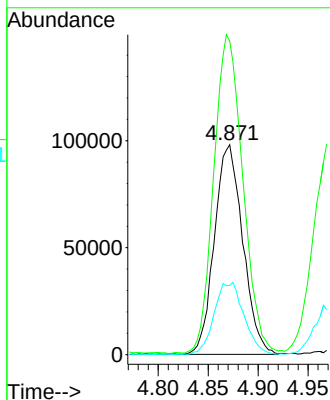
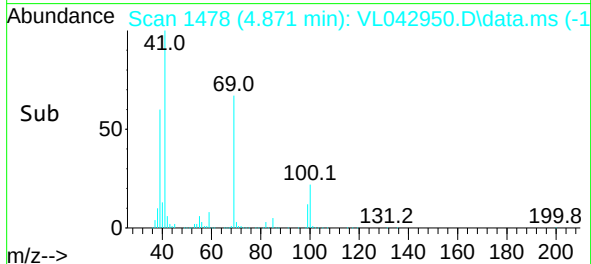
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



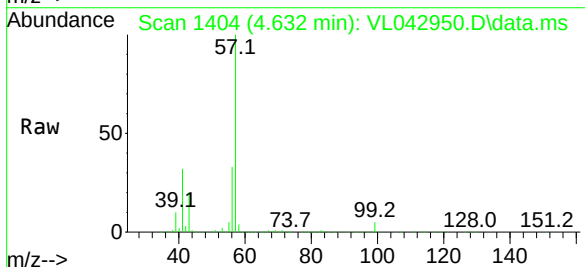
Tgt Ion: 69 Resp: 193670
Ion Ratio Lower Upper
69 100
41 155.6 124.5 186.7
100 36.3 29.0 43.6

Manual Integrations
APPROVED

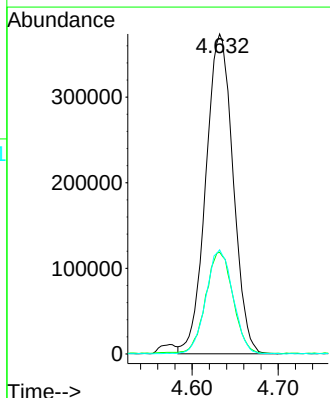
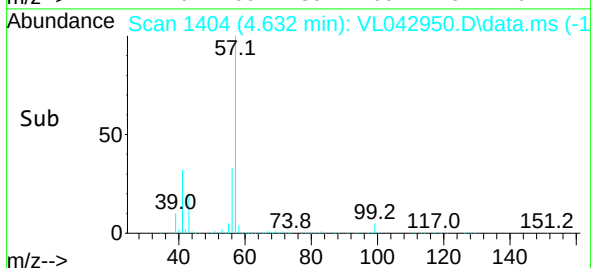
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

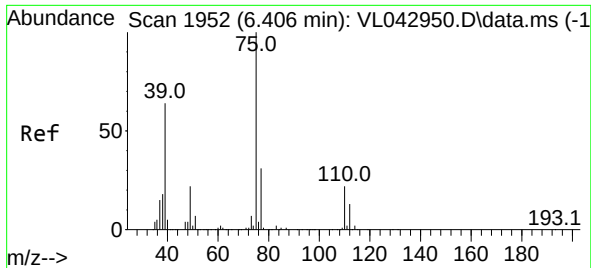


#44
2,2,4-Trimethylpentane
Concen: 9.631 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



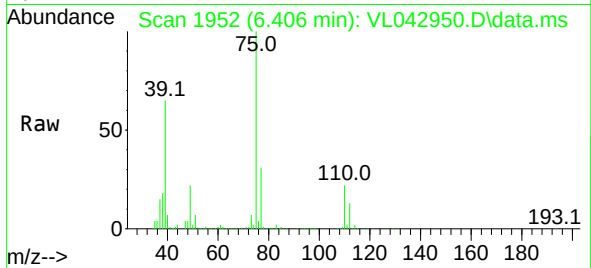
Tgt Ion: 57 Resp: 823031
Ion Ratio Lower Upper
57 100
41 31.9 25.5 38.3
56 32.3 25.8 38.8





#45
 t-1,3-Dichloropropene
 Concen: 9.969 ppbv
 RT: 6.406 min Scan# 1952
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

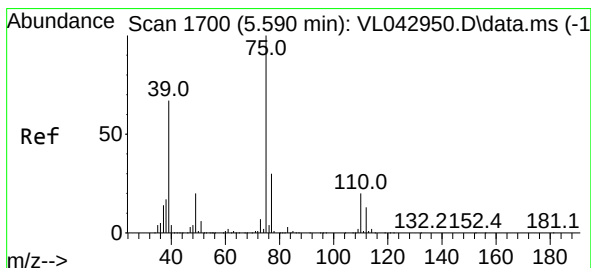
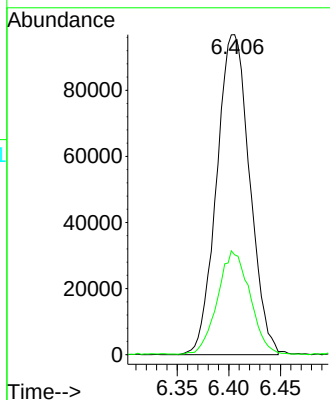
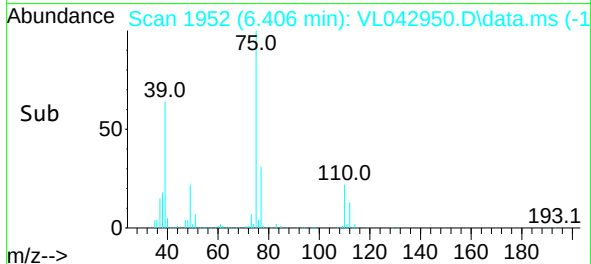
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



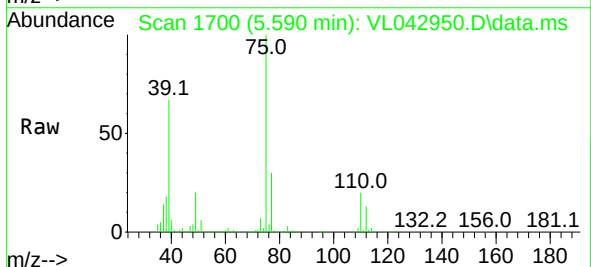
Tgt Ion: 75 Resp: 21523
 Ion Ratio Lower Upper
 75 100
 77 31.2 25.0 37.4

Manual Integrations
 APPROVED

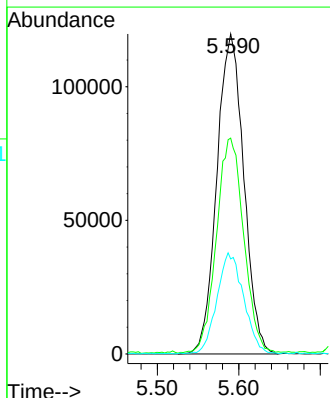
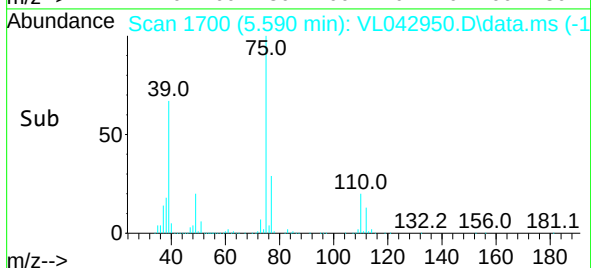
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

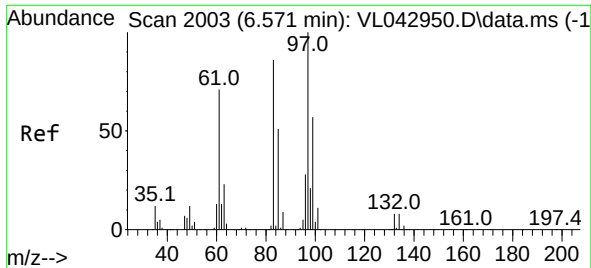


#46
 cis-1,3-Dichloropropene
 Concen: 10.006 ppbv
 RT: 5.590 min Scan# 1700
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39



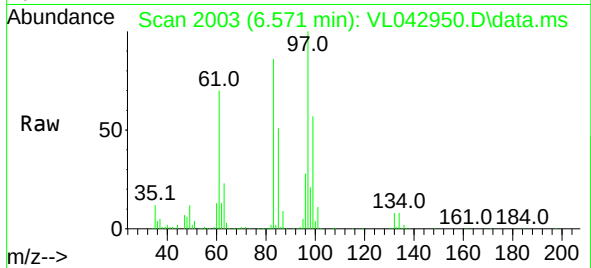
Tgt Ion: 75 Resp: 275210
 Ion Ratio Lower Upper
 75 100
 39 67.2 53.8 80.6
 77 29.5 23.6 35.4





#47
1,1,2-Trichloroethane
Concen: 9.498 ppbv
RT: 6.571 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

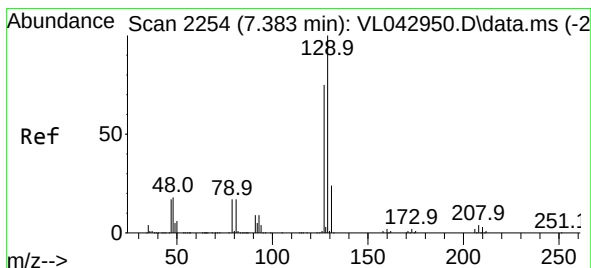
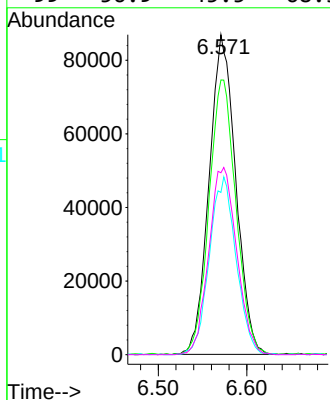
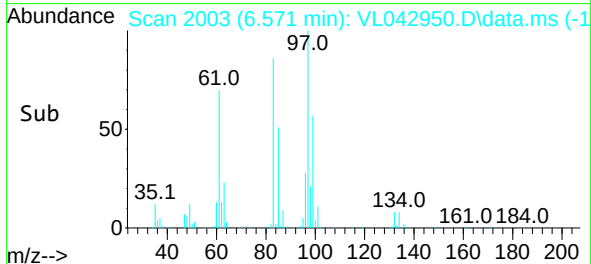
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



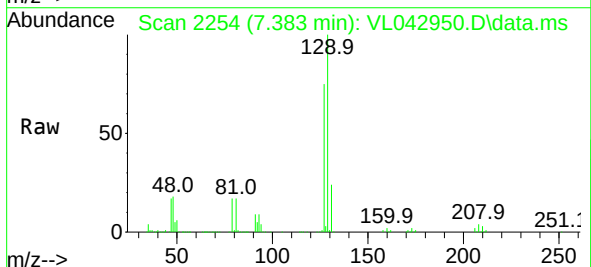
Tgt Ion: 97 Resp: 181329
Ion Ratio Lower Upper
97 100
83 85.9 68.7 103.1
85 50.7 40.6 60.8
99 56.9 45.5 68.3

Manual Integrations
APPROVED

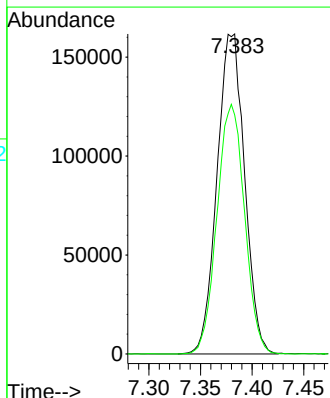
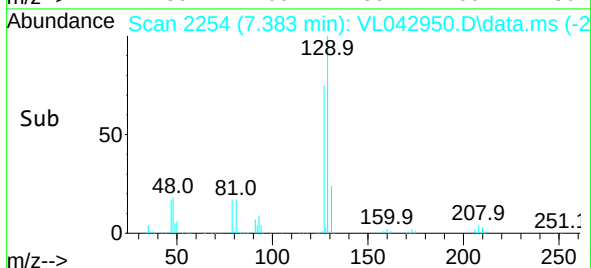
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

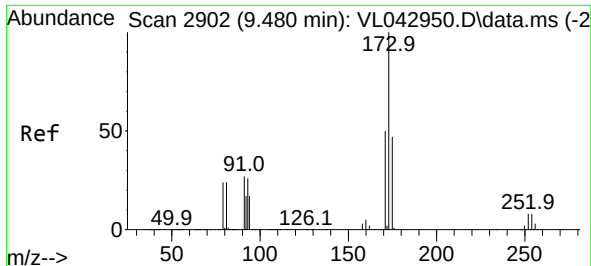


#48
Dibromochloromethane
Concen: 9.845 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



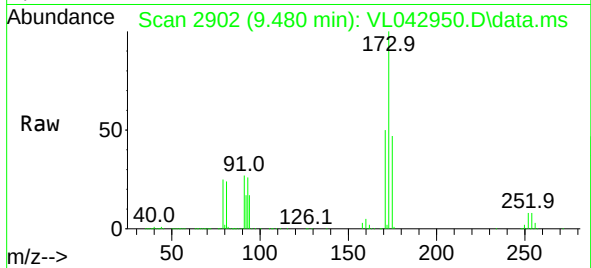
Tgt Ion:129 Resp: 300497
Ion Ratio Lower Upper
129 100
127 78.1 39.1 117.2





#49
Bromoform
Concen: 10.087 ppbv
RT: 9.480 min Scan# 2902
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

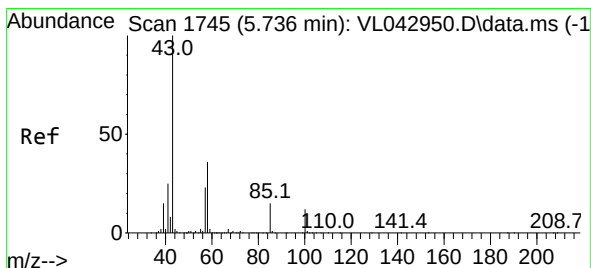
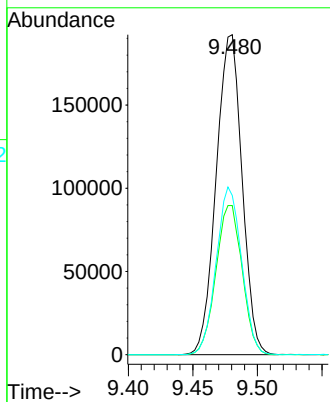
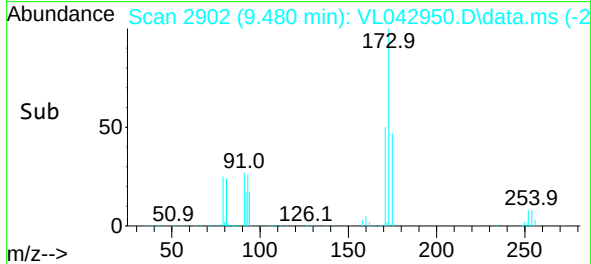
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



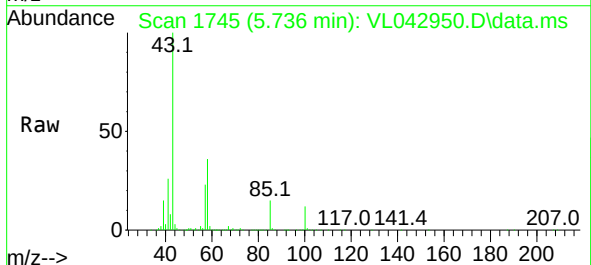
Tgt Ion:173 Resp: 267814
Ion Ratio Lower Upper
173 100
175 47.4 37.9 56.9
171 51.4 41.1 61.7

Manual Integrations
APPROVED

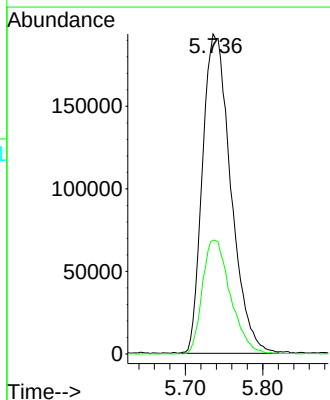
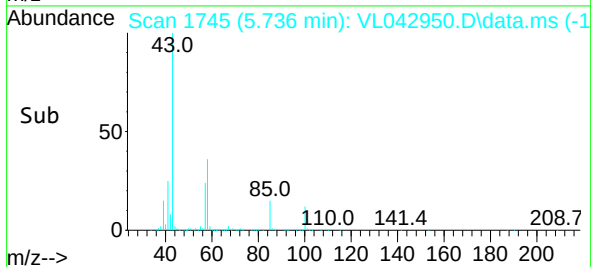
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

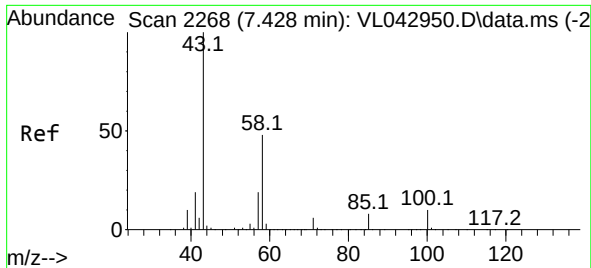


#50
4-Methyl-2-Pentanone
Concen: 9.920 ppbv
RT: 5.736 min Scan# 1745
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



Tgt Ion: 43 Resp: 492068
Ion Ratio Lower Upper
43 100
58 35.5 28.4 42.6





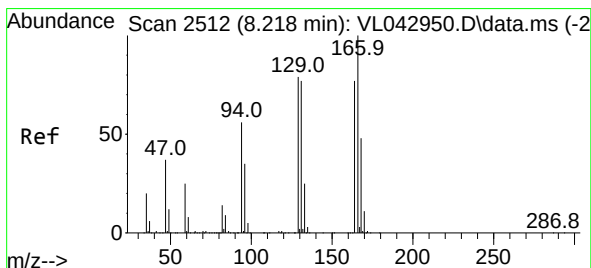
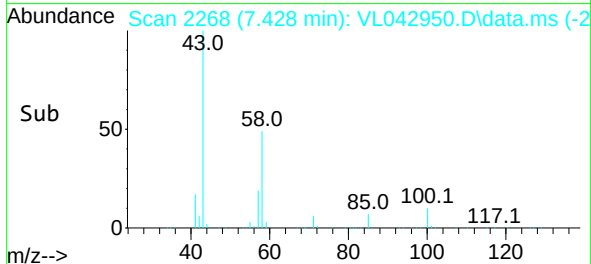
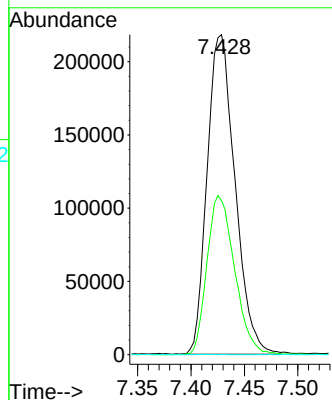
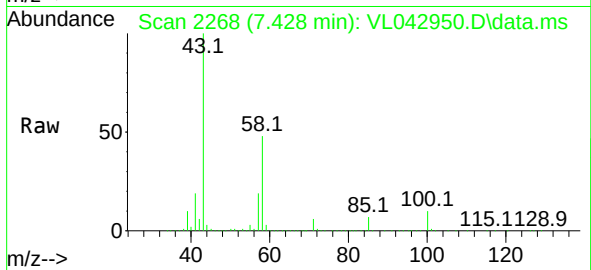
#51
2-Hexanone
Concen: 10.036 ppbv
RT: 7.428 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 395744
Ion Ratio Lower Upper
43 100
58 49.6 39.7 59.5
98 0.1 0.1 0.1

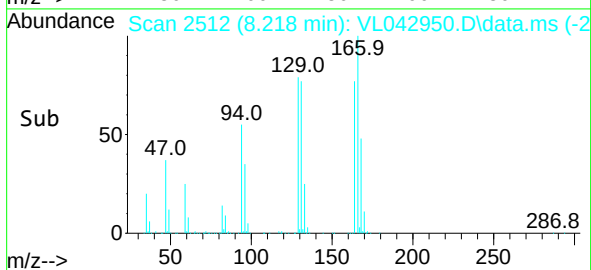
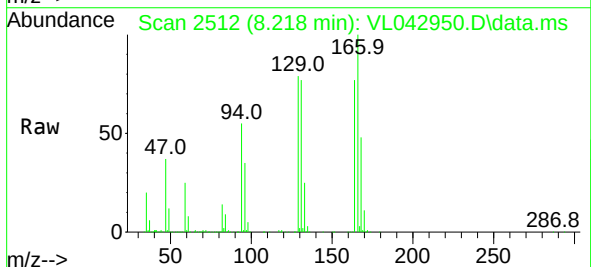
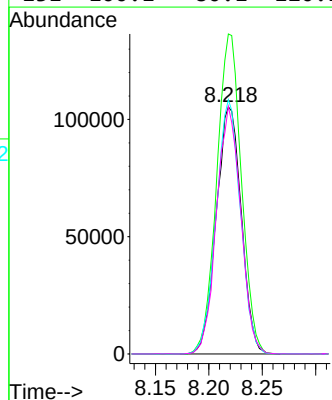
Manual Integrations
APPROVED

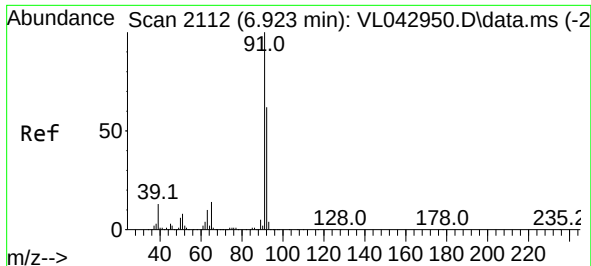
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#52
Tetrachloroethene
Concen: 8.951 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

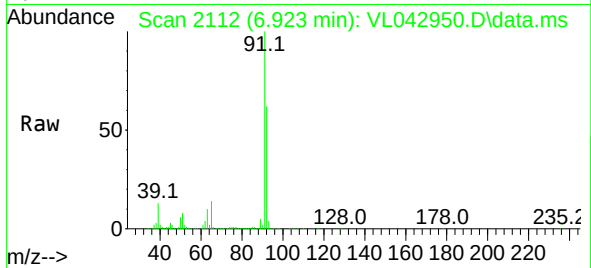
Tgt Ion:164 Resp: 171294
Ion Ratio Lower Upper
164 100
166 129.4 103.5 155.3
129 102.8 82.2 123.4
131 100.1 80.1 120.1





#53
Toluene
Concen: 9.699 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

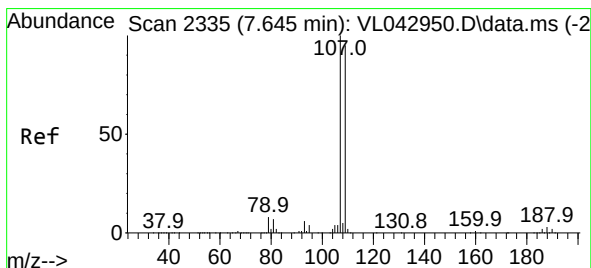
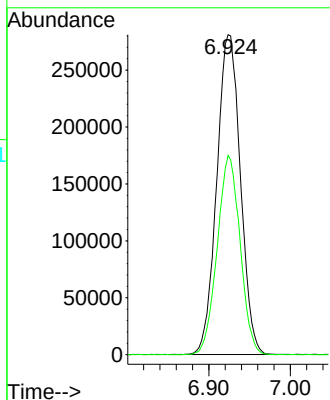
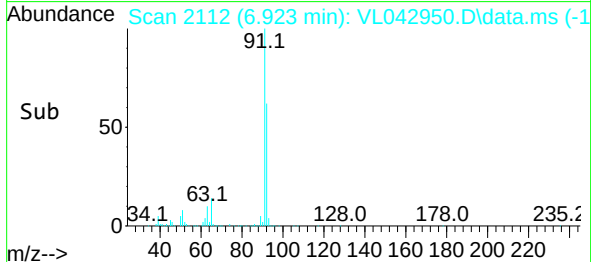
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



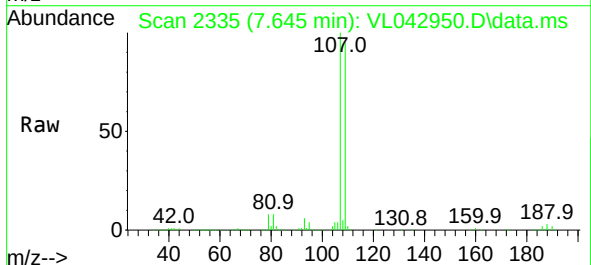
Tgt Ion: 91 Resp: 567779
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.2

Manual Integrations
APPROVED

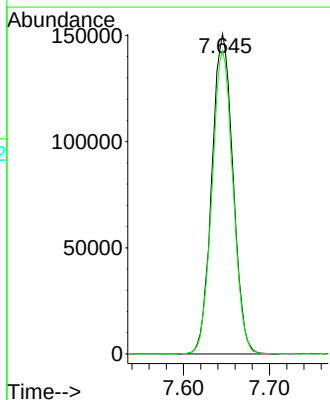
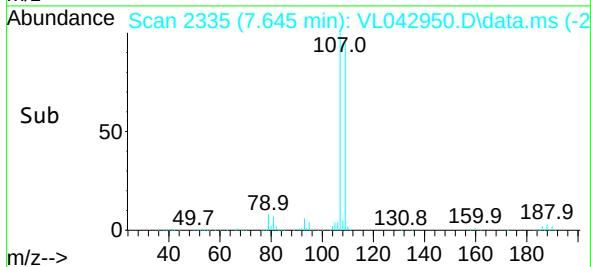
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

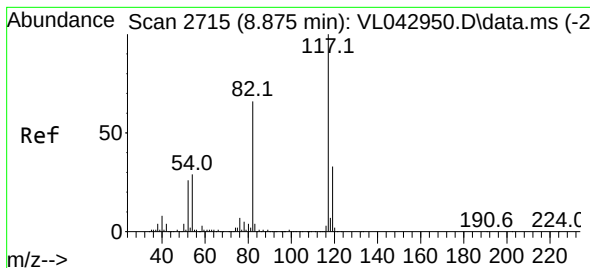


#54
1,2-Dibromoethane
Concen: 9.605 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



Tgt Ion:107 Resp: 257904
Ion Ratio Lower Upper
107 100
109 94.8 75.8 113.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_L

ClientSampleId :

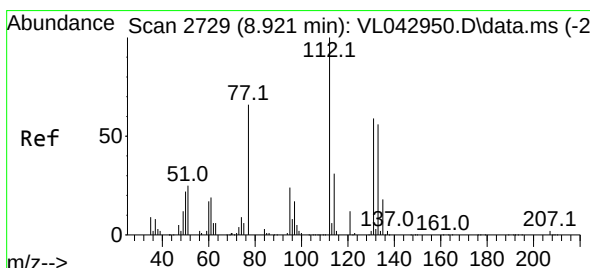
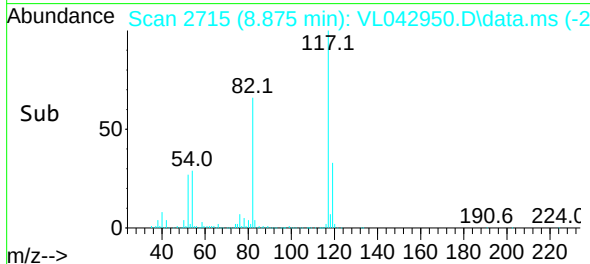
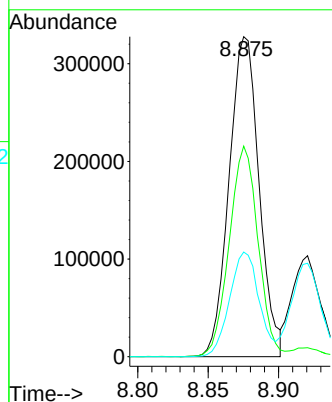
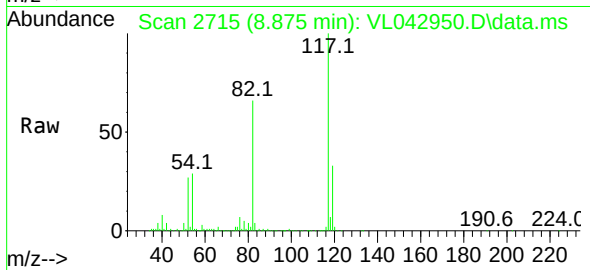
VSTDICCC010

Tgt Ion:	117	Resp:	486724
Ion Ratio	Lower	Upper	
117	100		
82	66.0	52.8	79.2
119	33.1	26.5	39.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 9.575 ppbv

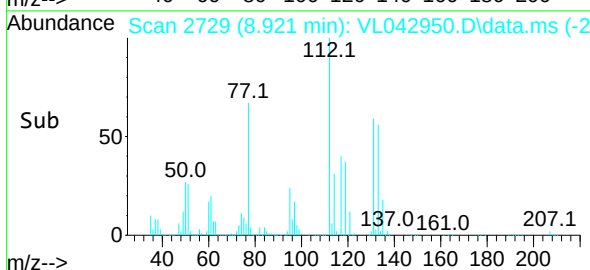
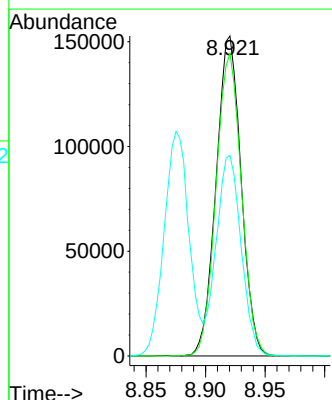
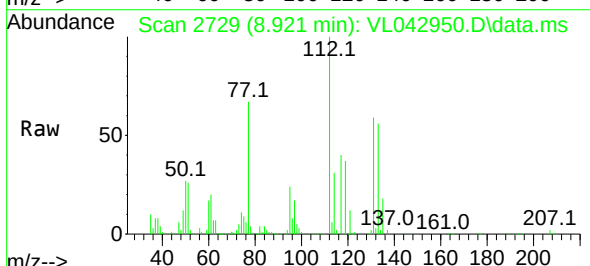
RT: 8.921 min Scan# 2729

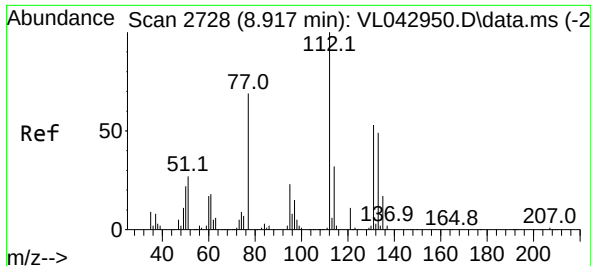
Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Tgt Ion:	131	Resp:	223066
Ion Ratio	Lower	Upper	
131	100		
133	95.7	76.6	114.8
119	62.4	49.9	74.9





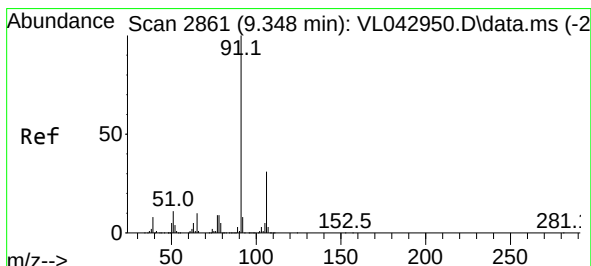
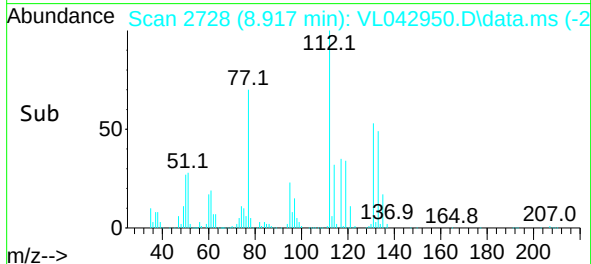
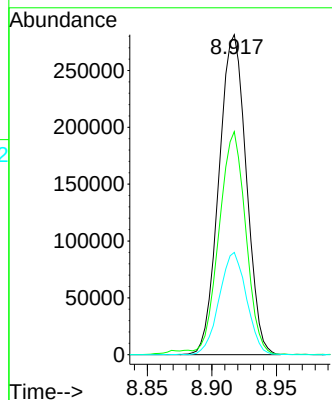
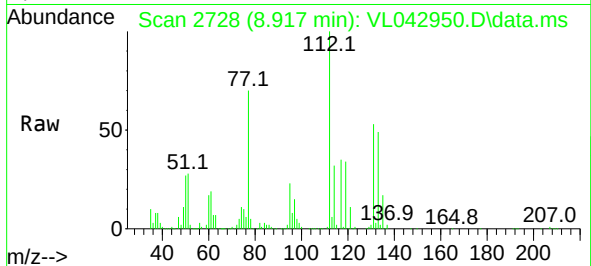
#57
Chlorobenzene
Concen: 9.345 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 112 Resp: 415238
Ion Ratio Lower Upper
112 100
77 69.6 55.7 83.5
114 31.8 28.6 35.0

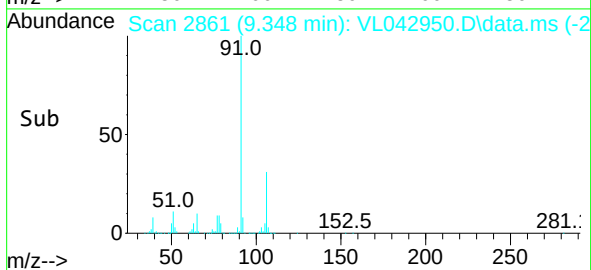
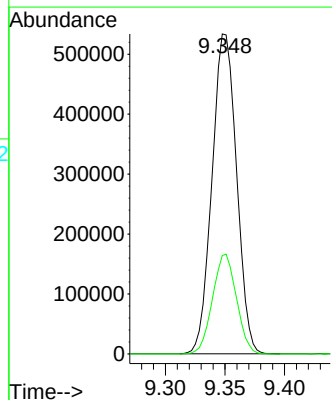
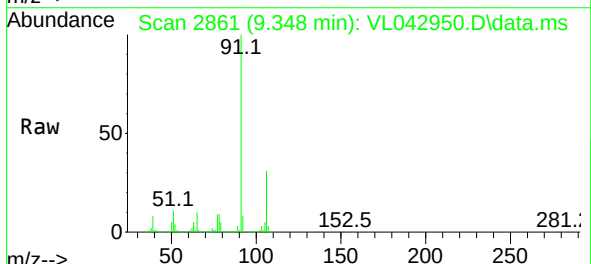
Manual Integrations
APPROVED

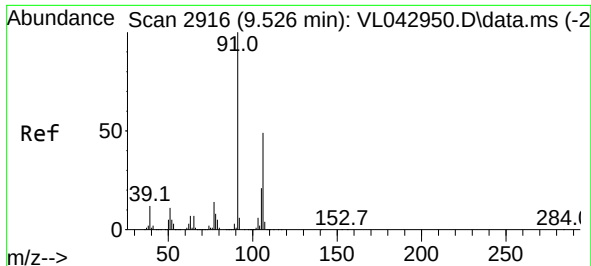
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#58
Ethyl Benzene
Concen: 9.562 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 91 Resp: 764249
Ion Ratio Lower Upper
91 100
106 30.8 24.6 37.0





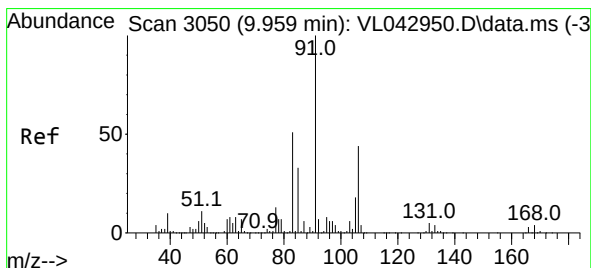
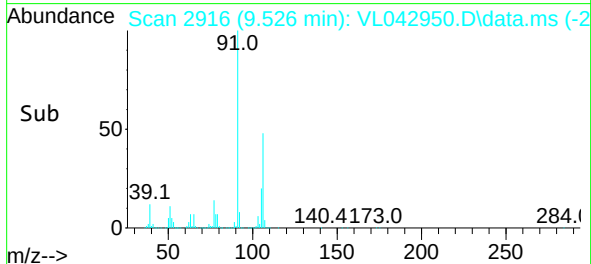
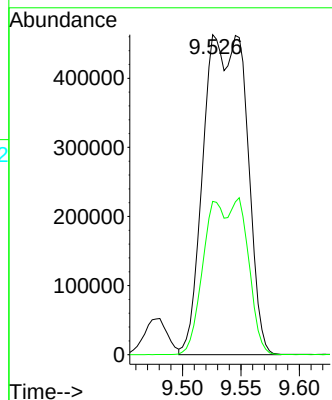
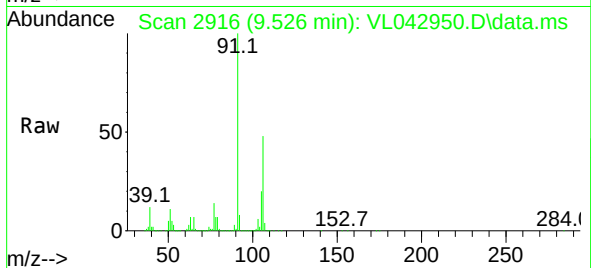
#59
m/p-Xylene
Concen: 18.913 ppbv m
RT: 9.526 min Scan# 2916
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 1192560
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

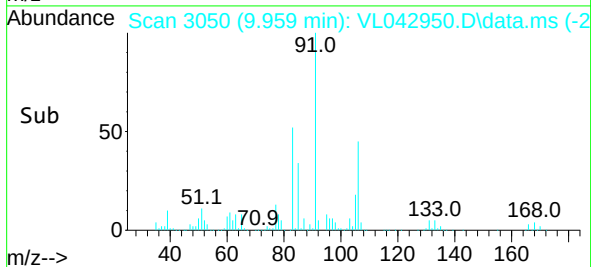
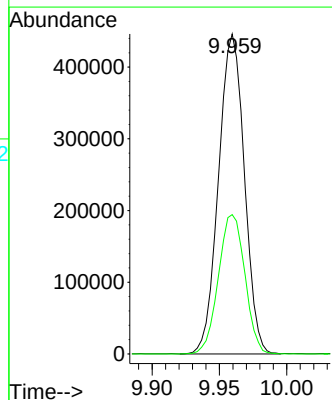
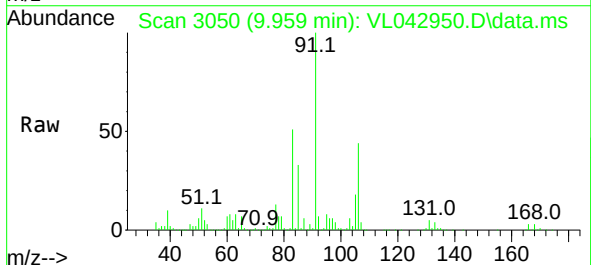
Manual Integrations
APPROVED

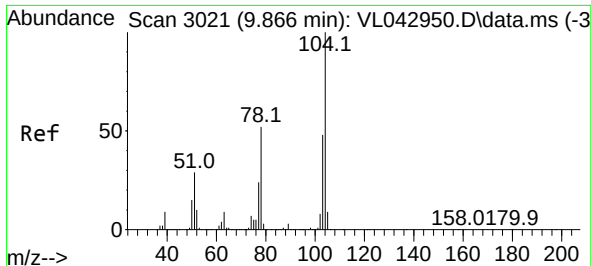
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#60
o-Xylene
Concen: 9.437 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

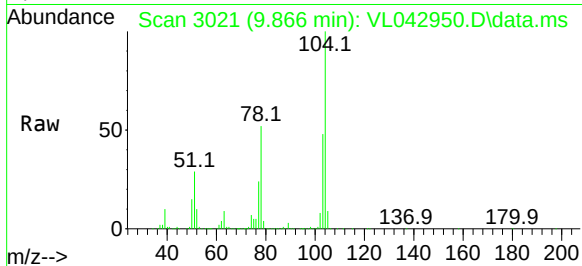
Tgt Ion: 91 Resp: 594329
Ion Ratio Lower Upper
91 100
106 44.7 22.4 67.0





#61
Styrene
Concen: 9.840 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

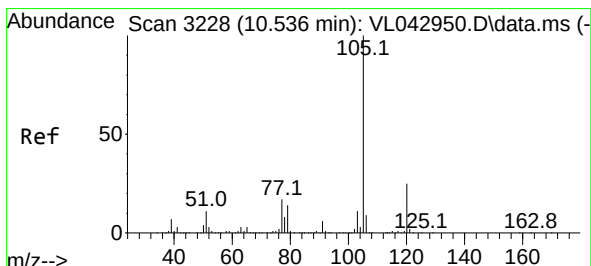
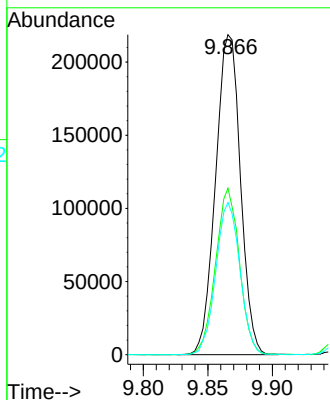
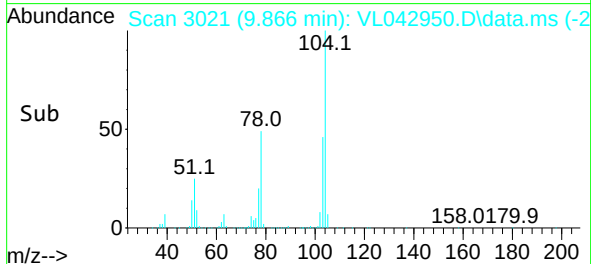
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



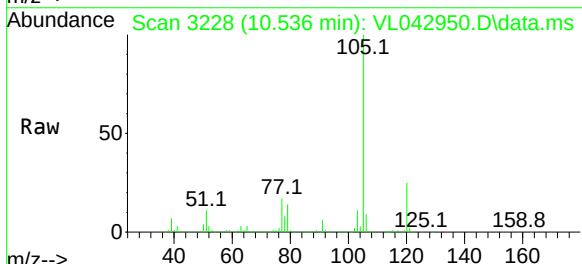
Tgt Ion:104 Resp: 29311
Ion Ratio Lower Upper
104 100
78 49.9 39.9 59.9
103 46.1 36.9 55.3

Manual Integrations
APPROVED

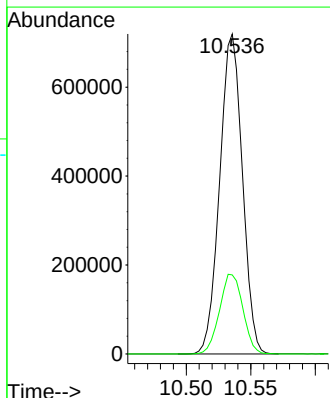
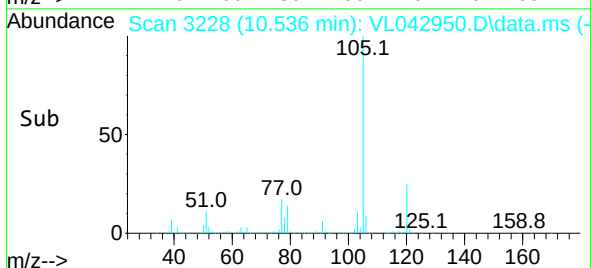
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

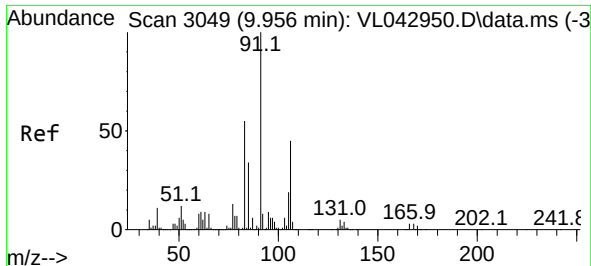


#62
Isopropylbenzene
Concen: 9.347 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



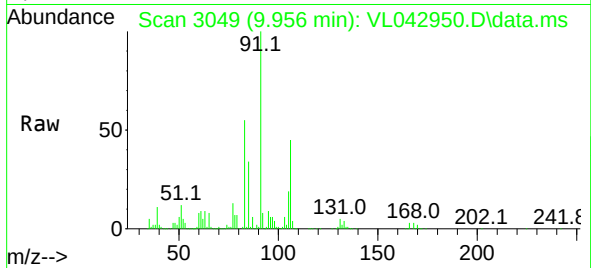
Tgt Ion:105 Resp: 877401
Ion Ratio Lower Upper
105 100
120 25.7 20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 8.963 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

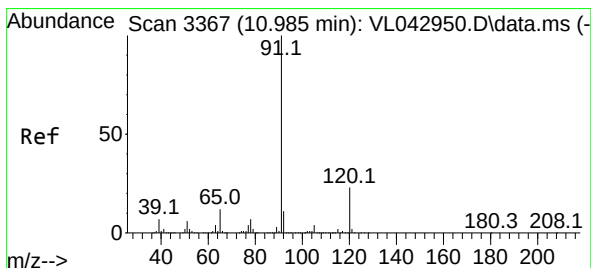
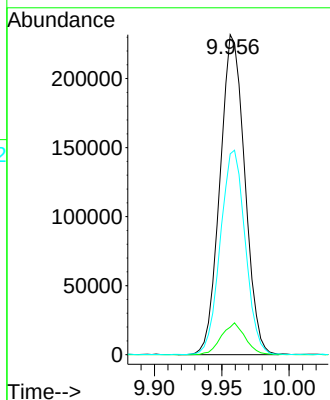
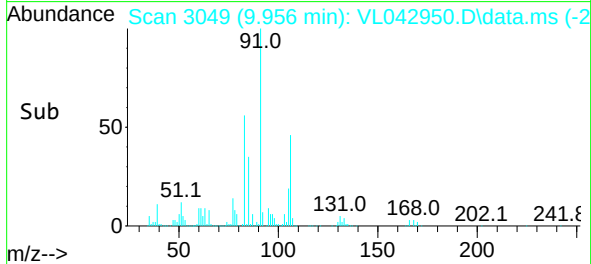
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010



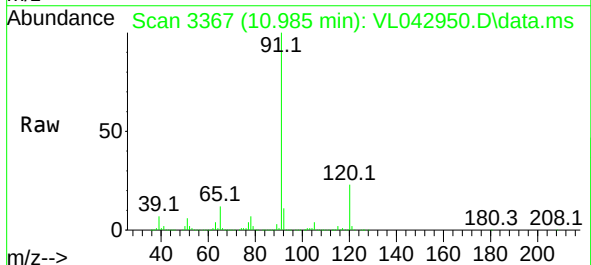
Tgt Ion: 83 Resp: 296678
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 64.4 32.2 96.6

Manual Integrations
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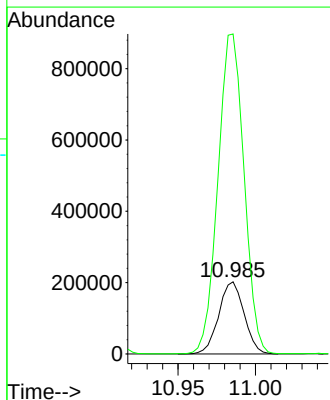
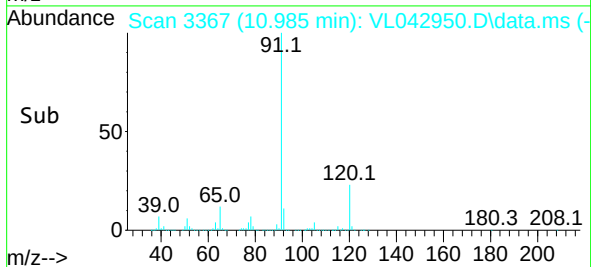
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

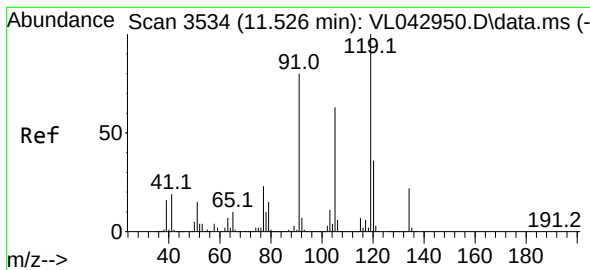


#64
n-propylbenzene
Concen: 9.394 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



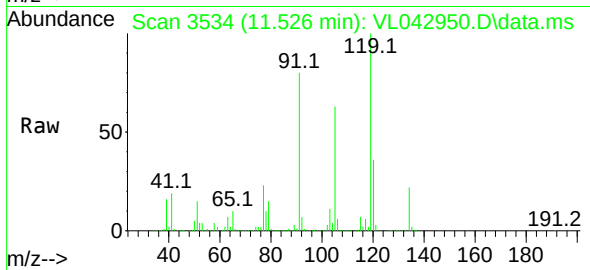
Tgt Ion:120 Resp: 230432
Ion Ratio Lower Upper
120 100
91 456.1 364.9 547.3





#65
tert-Butylbenzene
Concen: 9.078 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

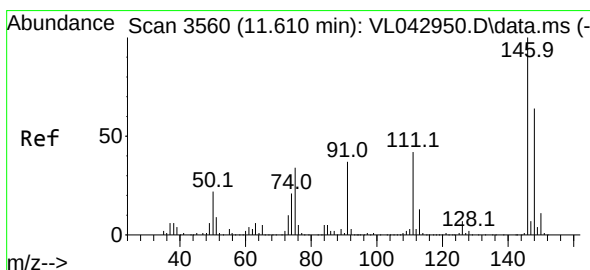
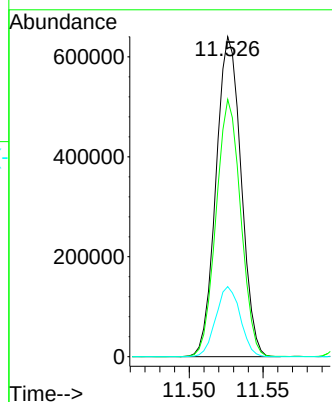
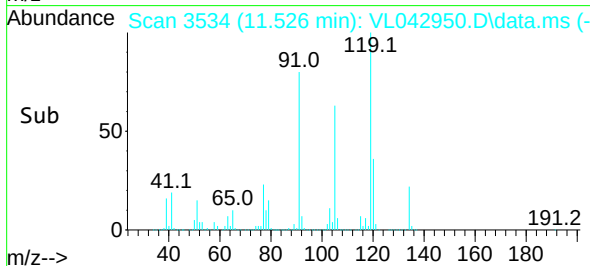
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



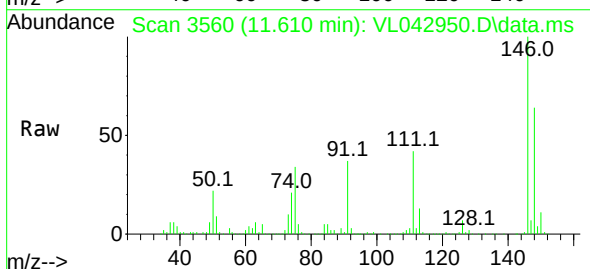
Tgt Ion: 119 Resp: 757958
Ion Ratio Lower Upper
119 100
91 78.9 63.1 94.7
134 21.3 17.0 25.6

Manual Integrations
APPROVED

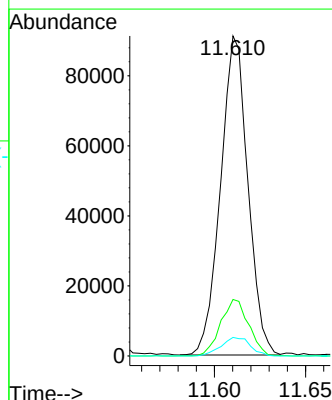
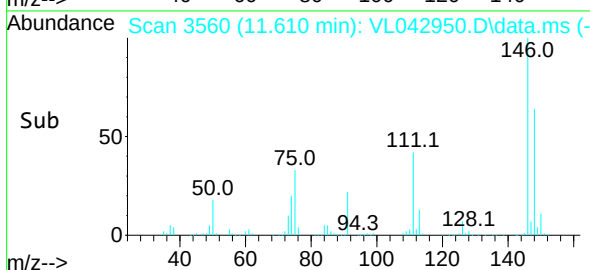
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

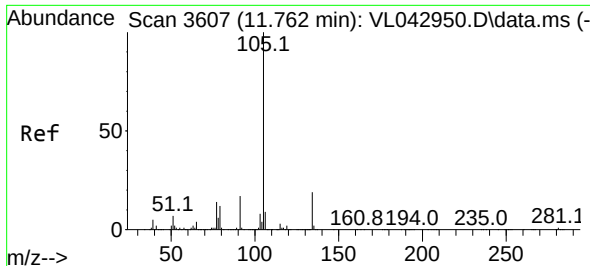


#66
Benzyl Chloride
Concen: 10.842 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



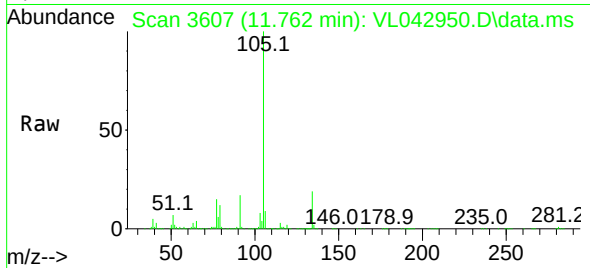
Tgt Ion: 91 Resp: 94982
Ion Ratio Lower Upper
91 100
126 18.2 14.6 21.8
128 6.2 5.0 7.4





#67
 sec-Butylbenzene
 Concen: 9.166 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

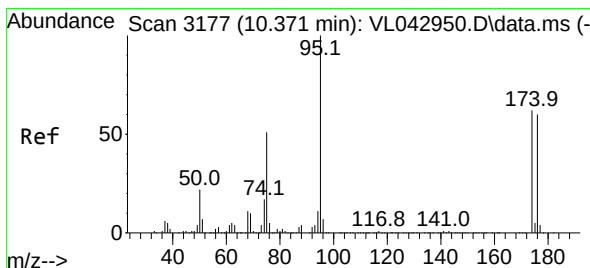
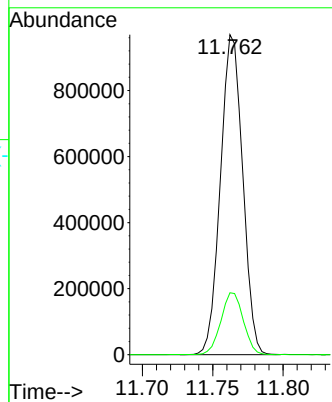
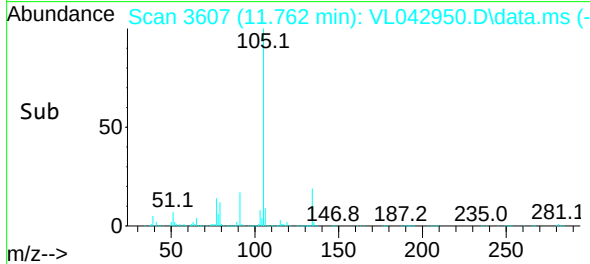
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:105 Resp: 1066409
 Ion Ratio Lower Upper
 105 100
 134 19.6 15.7 23.5

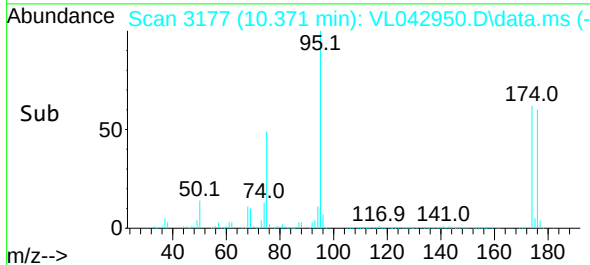
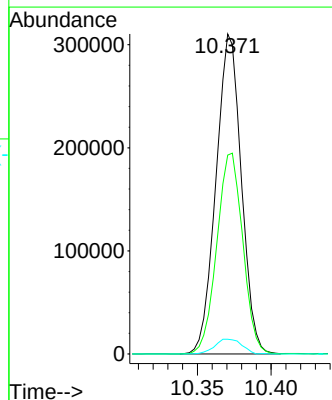
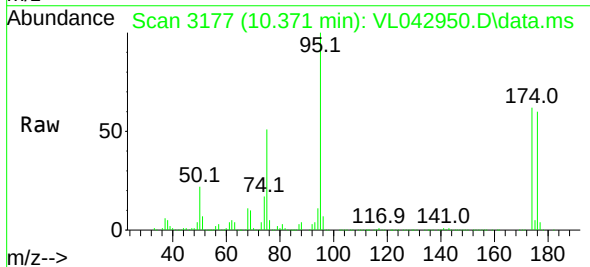
Manual Integrations
 APPROVED

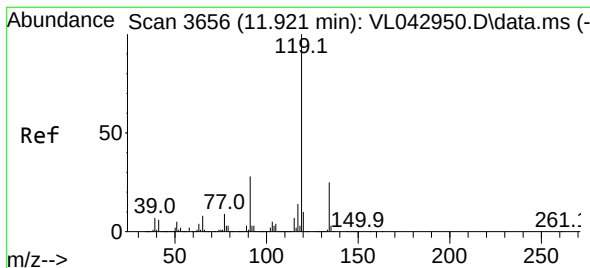
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.217 ppbv
 RT: 10.371 min Scan# 3177
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

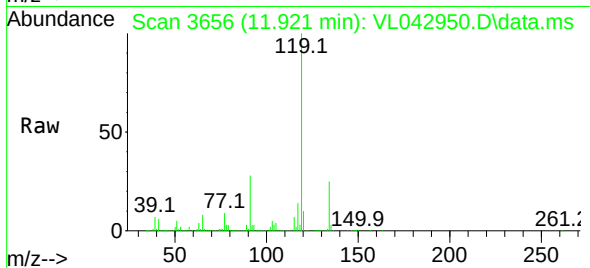
Tgt Ion: 95 Resp: 371195
 Ion Ratio Lower Upper
 95 100
 174 64.3 51.4 77.2
 175 5.0 4.0 6.0





#69
p-Isopropyltoluene
Concen: 9.192 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

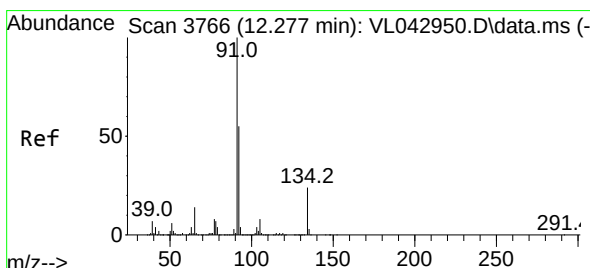
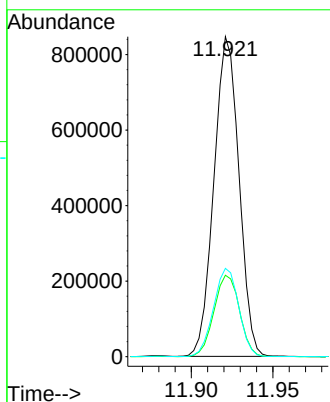
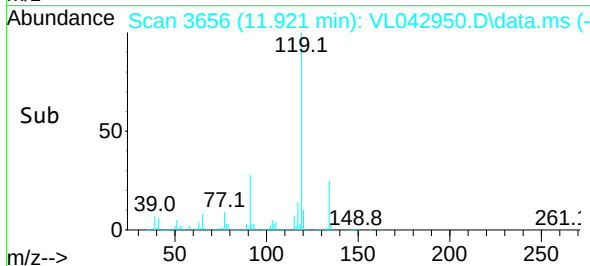
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



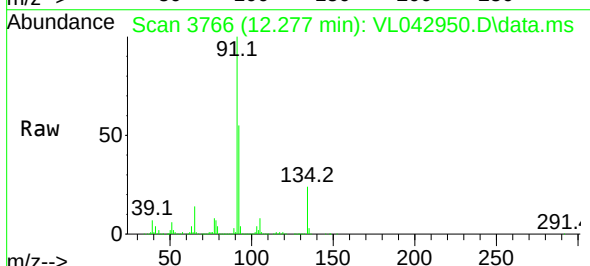
Tgt Ion: 119 Resp: 903370
Ion Ratio Lower Upper
119 100
134 26.2 21.0 31.4
91 27.9 22.3 33.5

Manual Integrations
APPROVED

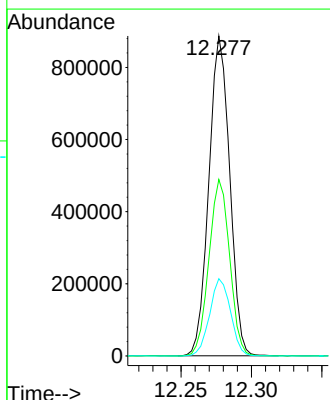
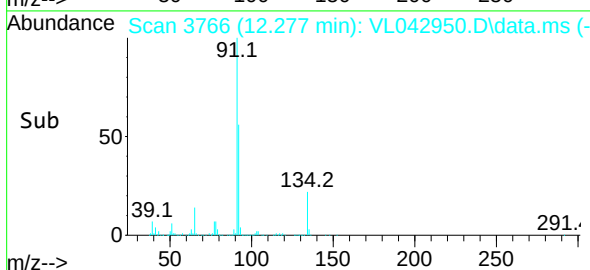
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

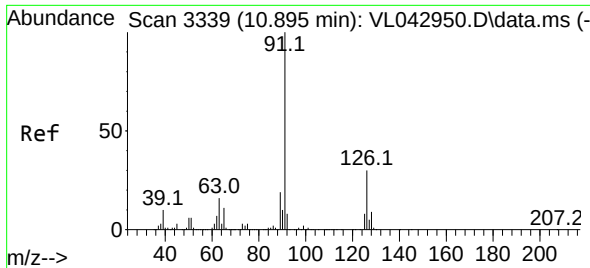


#70
n-Butylbenzene
Concen: 9.543 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



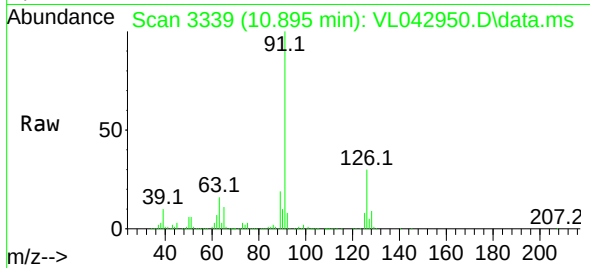
Tgt Ion: 91 Resp: 915624
Ion Ratio Lower Upper
91 100
92 55.0 44.0 66.0
134 24.3 19.4 29.2





#71
2-Chlorotoluene
Concen: 9.428 ppbv
RT: 10.895 min Scan# 3339
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

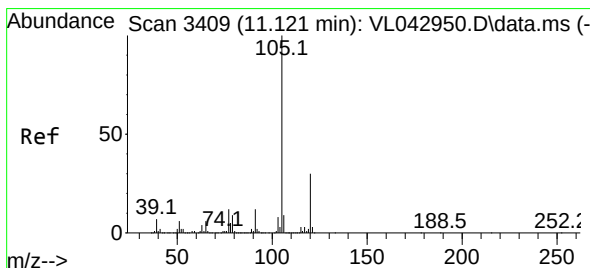
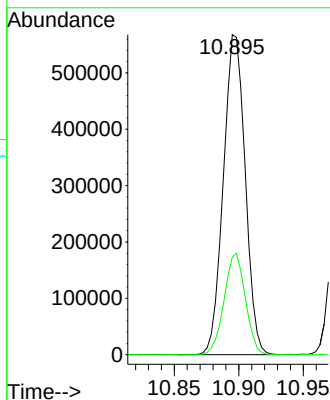
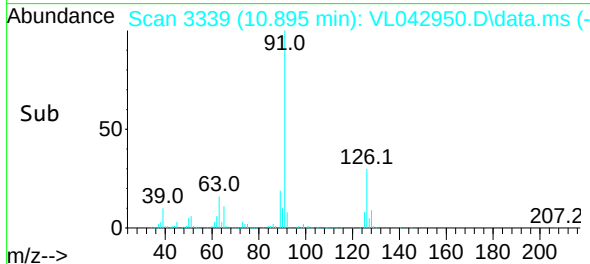
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



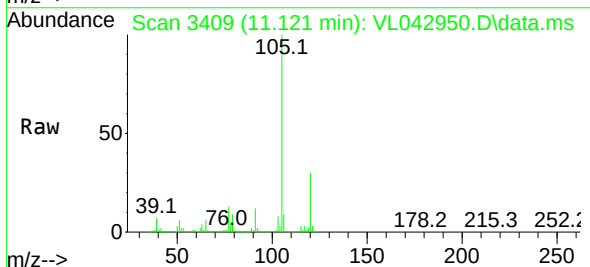
Tgt Ion: 91 Resp: 668239
Ion Ratio Lower Upper
91 100
126 30.8 12.3 49.3

Manual Integrations
APPROVED

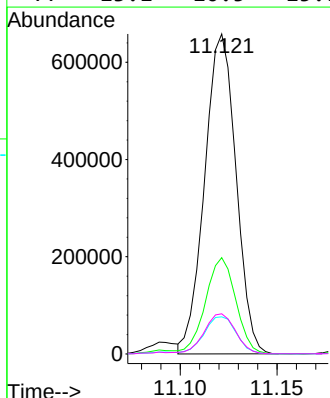
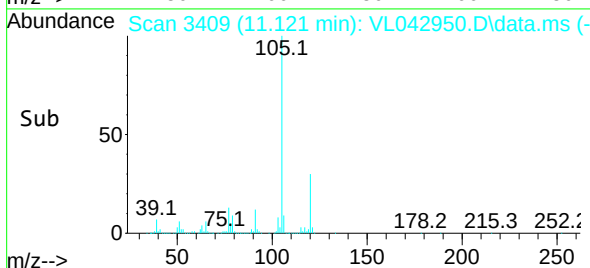
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

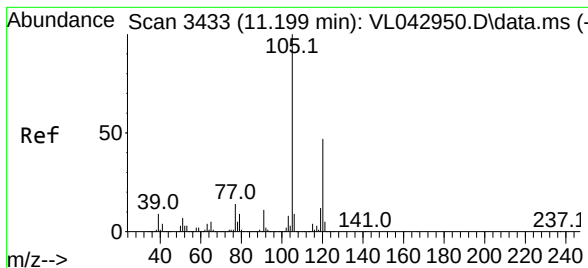


#72
4-Ethyltoluene
Concen: 9.398 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



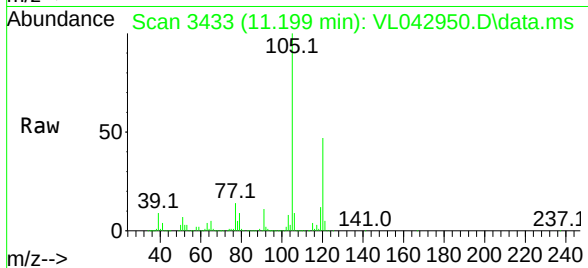
Tgt Ion:105 Resp: 741298
Ion Ratio Lower Upper
105 100
120 30.2 24.2 36.2
91 12.5 10.0 15.0
77 13.1 10.5 15.7





#73
1,3,5-Trimethylbenzene
Concen: 9.608 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

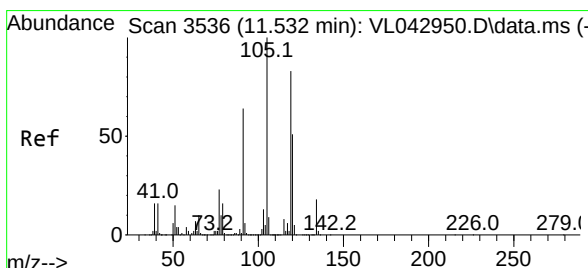
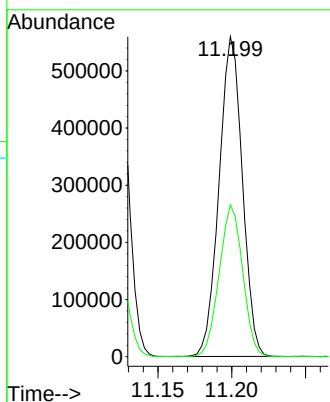
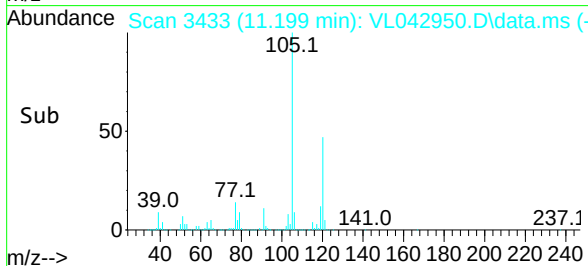
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



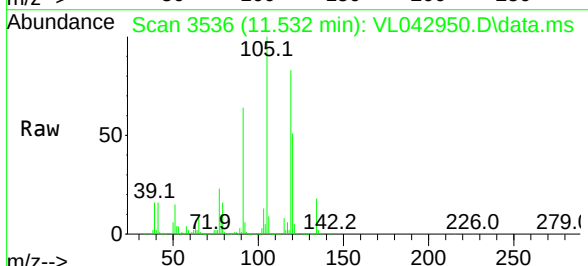
Tgt Ion:105 Resp: 614632
Ion Ratio Lower Upper
105 100
120 47.5 38.0 57.0

Manual Integrations
APPROVED

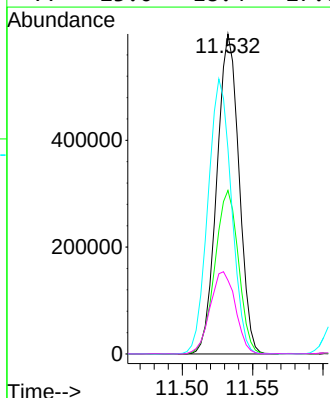
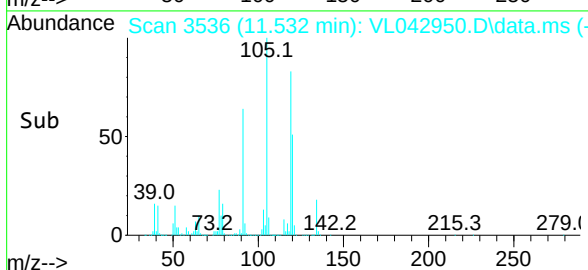
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

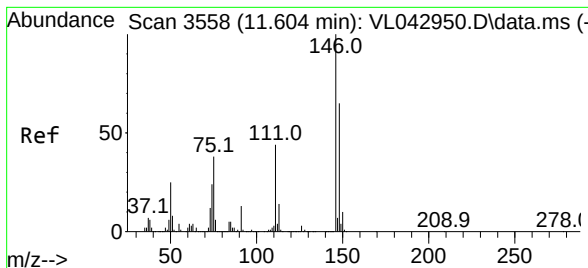


#74
1,2,4-Trimethylbenzene
Concen: 9.294 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



Tgt Ion:105 Resp: 656535
Ion Ratio Lower Upper
105 100
120 51.1 40.9 61.3
91 64.0 51.2 76.8
77 23.0 18.4 27.6





#75

1,3-Dichlorobenzene

Concen: 9.392 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:146 Resp: 41147

Ion Ratio Lower Upper

146 100

111 44.6 22.3 66.9

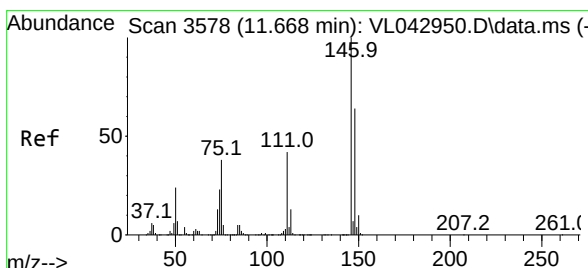
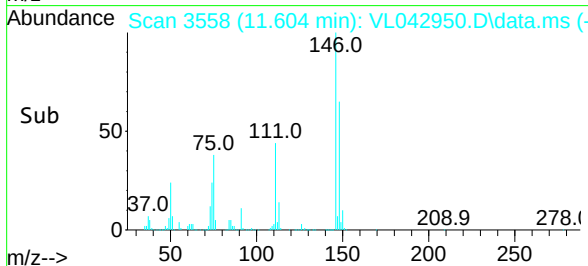
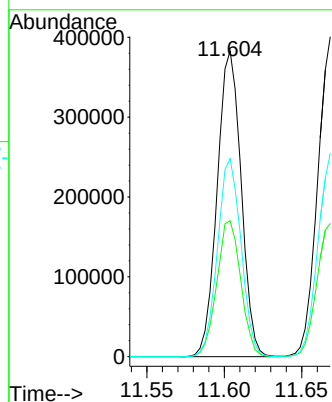
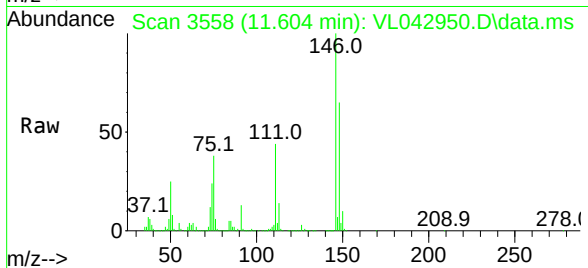
148 63.7 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#76

1,4-Dichlorobenzene

Concen: 9.456 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

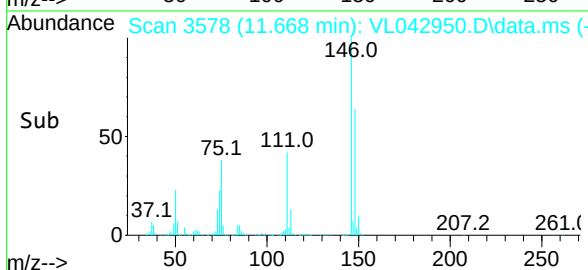
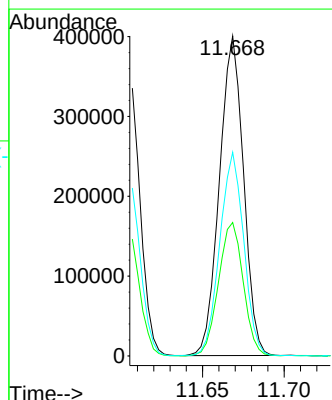
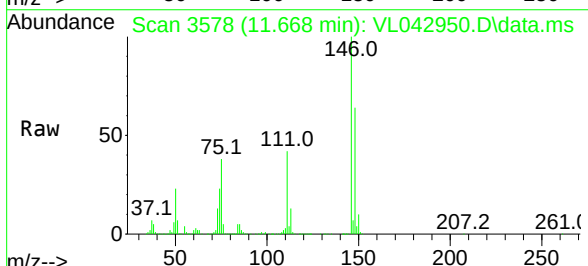
Tgt Ion:146 Resp: 411464

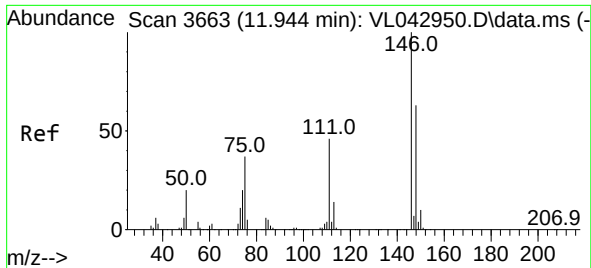
Ion Ratio Lower Upper

146 100

111 43.0 21.5 64.5

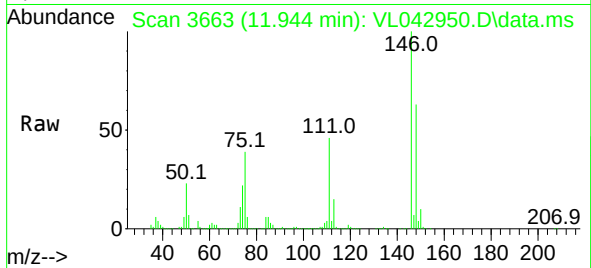
148 63.7 31.9 95.5





#77
1,2-Dichlorobenzene
Concen: 9.289 ppbv
RT: 11.944 min Scan# 3663
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

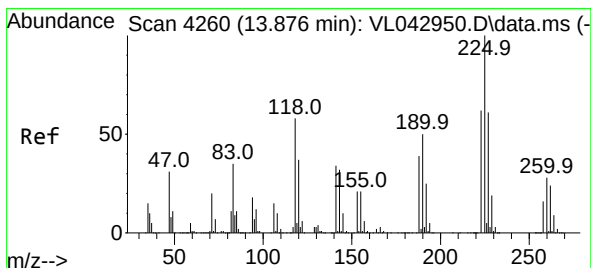
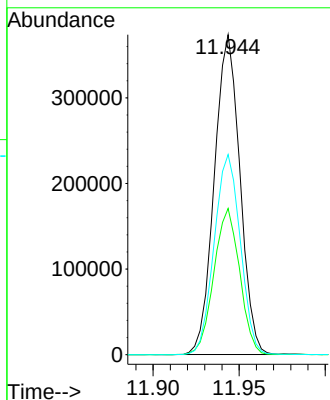
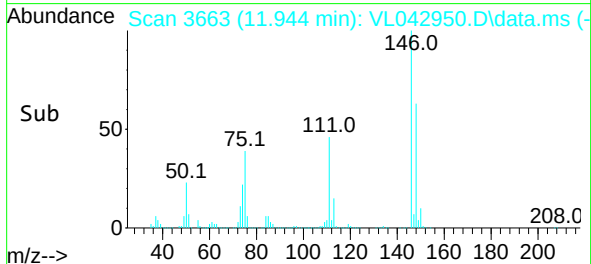
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



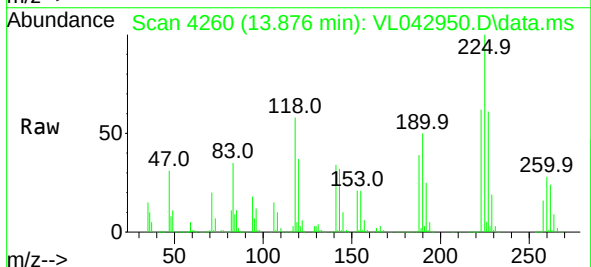
Tgt Ion:146 Resp: 387219
Ion Ratio Lower Upper
146 100
111 46.2 23.1 69.3
148 64.0 32.0 96.0

Manual Integrations
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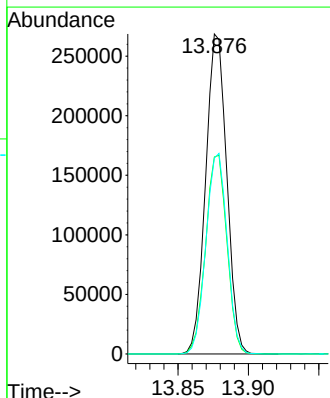
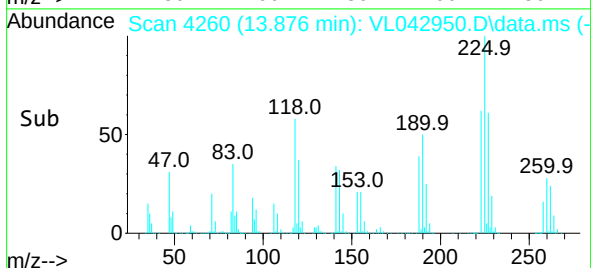
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

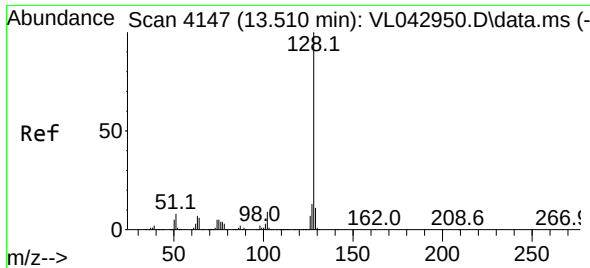


#78
Hexachloro-1,3-Butadiene
Concen: 8.591 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



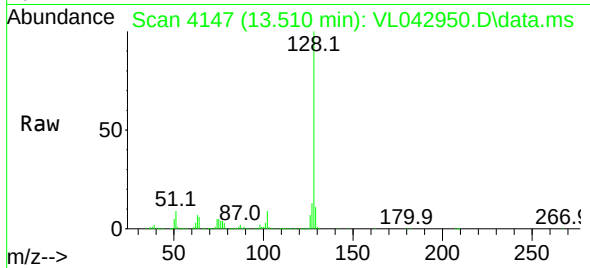
Tgt Ion:225 Resp: 280080
Ion Ratio Lower Upper
225 100
223 62.6 50.1 75.1
227 63.0 50.4 75.6





#79
Naphthalene
Concen: 10.696 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

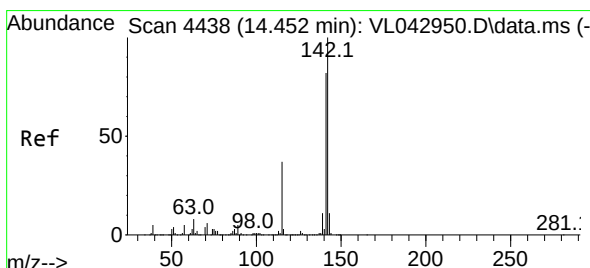
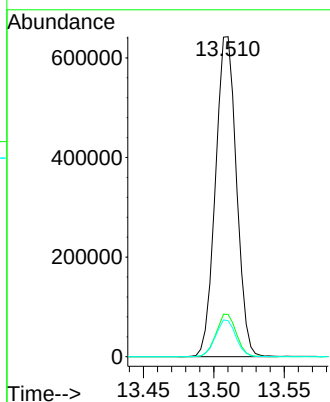
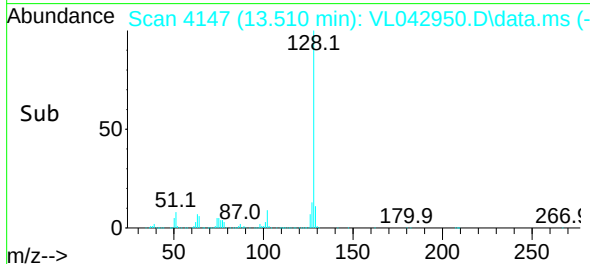
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



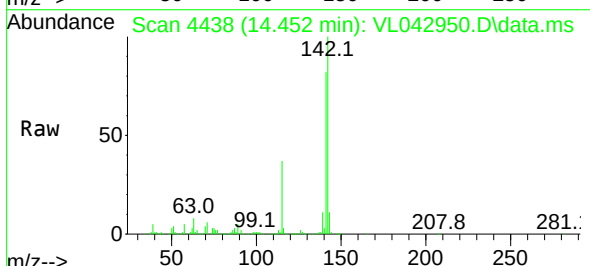
Tgt Ion:128 Resp: 66817
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 11.3 9.0 13.6

Manual Integrations
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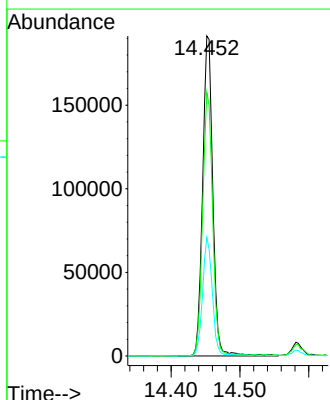
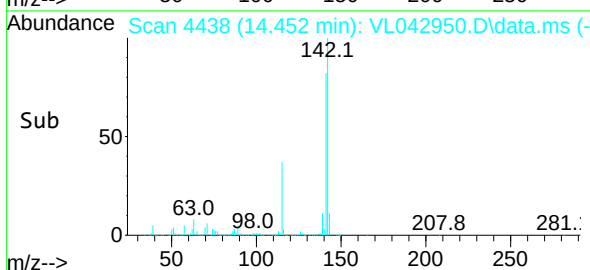
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

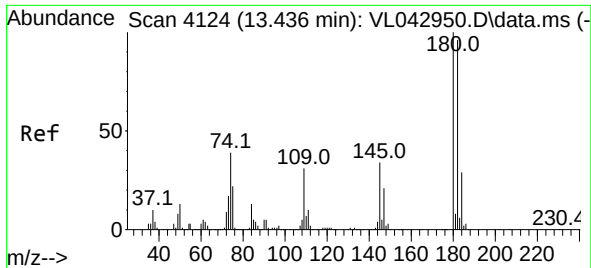


#80
Naphthalene,2-methyl-
Concen: 10.142 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39



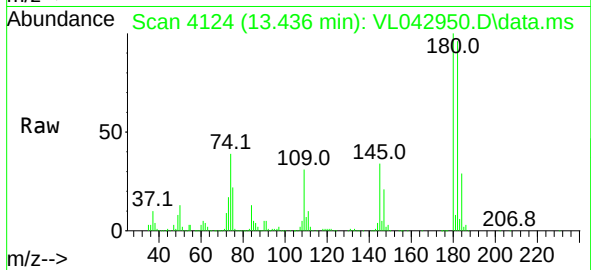
Tgt Ion:142 Resp: 195695
Ion Ratio Lower Upper
142 100
141 81.4 65.1 97.7
115 36.1 28.9 43.3





#81
 1,2,4-Trichlorobenzene
 Concen: 10.461 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

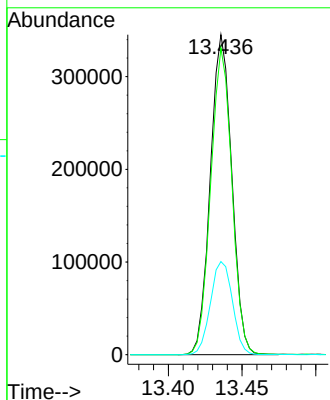
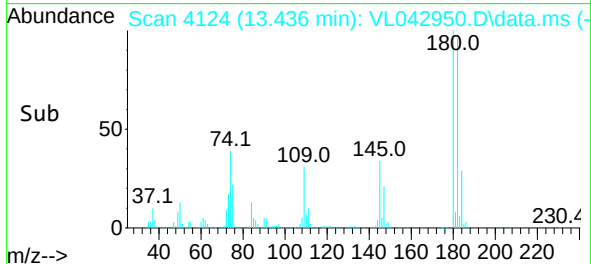
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:180 Resp: 34939
 Ion Ratio Lower Upper
 180 100
 182 94.6 75.7 113.5
 184 29.9 23.9 35.9

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042951.D
 Acq On : 22 Sep 2025 10:14
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Sep 23 02:09:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	170758	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	524389	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	483821	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	361586	10.012	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.100%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	47851	2.083	ppbv	97
3) Chlorodifluoromethane	1.476	51	58395	2.040	ppbv	95
4) Chloromethane	1.534	50	21326	2.051	ppbv	99
5) Vinyl Chloride	1.580	62	17892	1.904	ppbv	98
6) Bromomethane	1.667	94	6816	2.056	ppbv	96
7) Chloroethane	1.706	64	7250	1.987	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	40306	2.056	ppbv	98
9) Propene	1.483	41	26007	2.088	ppbv	99
10) Heptane	4.978	43	66978	2.005	ppbv	99
11) Trichlorofluoromethane	1.877	101	45973	2.076	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.140	101	36490	2.035	ppbv	98
13) Ethanol	1.722	45	2989	2.504	ppbv	93
14) Bromoethene	1.784	108	14189	2.093	ppbv #	96
15) Acetone	1.835	43	50357	2.264	ppbv	99
16) 1,3-Butadiene	1.609	39	20729	1.976	ppbv	94
17) tert-Butyl alcohol	2.042	59	47749	1.957	ppbv #	93
18) 1,1-Dichloroethene	2.036	96	16572	1.996	ppbv	95
19) Isopropyl Alcohol	1.887	45	27930	2.089	ppbv #	79
20) Methylene Chloride	2.062	84	17413	2.097	ppbv #	84
21) Allyl Chloride	2.098	41	32985	2.130	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	18991	2.013	ppbv	98
23) Vinyl Acetate	2.463	43	64479	2.029	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	37865	2.047	ppbv	99
25) Ethyl Acetate	2.835	43	117567	2.092	ppbv	99
26) Hexane	2.826	57	53034	2.070	ppbv	98
27) Carbon Disulfide	2.153	76	47660	2.074	ppbv #	60
28) Methyl tert-Butyl Ether	2.441	73	25348	1.903	ppbv	92
29) Chloroform	2.848	83	69599	2.077	ppbv	96
30) Cyclohexane	3.855	84	43725	2.041	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	50019	2.084	ppbv	95
32) 1,1,1-Trichloroethane	3.366	97	70729	1.948	ppbv	97
34) 2-Butanone	2.557	43	77689	2.114	ppbv	98
35) Carbon Tetrachloride	3.761	117	68858	2.041	ppbv	95
36) Benzene	3.658	78	101901	2.069	ppbv	97
37) 1,2-Dichloroethane	3.217	62	53130	2.052	ppbv	98
38) Trichloroethene	4.548	130	47424	1.938	ppbv	94
39) 1,2-Dichloropropane	4.308	63	37381m	2.078	ppbv	
40) 1,4-Dioxane	4.586	88	17074m	2.044	ppbv	
41) Tetrahydrofuran	3.056	42	43962	2.081	ppbv	98
42) Bromodichloromethane	4.486	83	73675	2.042	ppbv	98
43) Methyl Methacrylate	4.881	69	41527	2.077	ppbv	99
44) 2,2,4-Trimethylpentane	4.638	57	177242	2.083	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	44171	2.055	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042951.D
 Acq On : 22 Sep 2025 10:14
 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 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:09:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

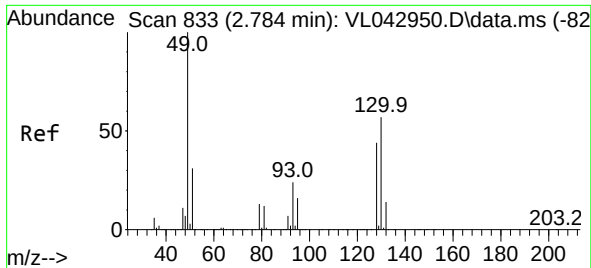
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

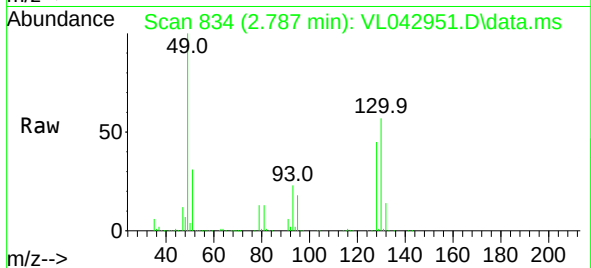
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	56335	2.057	ppbv	97
47) 1,1,2-Trichloroethane	6.577	97	38961m	2.050	ppbv	
48) Dibromochloromethane	7.383	129	62968	2.072	ppbv	98
49) Bromoform	9.480	173	56021	2.119	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	103605m	2.098	ppbv	
51) 2-Hexanone	7.438	43	80620	2.053	ppbv	99
52) Tetrachloroethene	8.224	164	36853	1.934	ppbv	94
53) Toluene	6.933	91	121268	2.081	ppbv	100
54) 1,2-Dibromoethane	7.652	107	55022	2.058	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.920	131	48901	2.112	ppbv	98
57) Chlorobenzene	8.924	112	91325	2.068	ppbv	94
58) Ethyl Benzene	9.354	91	168063	2.115	ppbv	99
59) m/p-Xylene	9.532	91	263362m	4.202	ppbv	
60) o-Xylene	9.963	91	131507	2.101	ppbv	98
61) Styrene	9.869	104	62748	2.119	ppbv	98
62) Isopropylbenzene	10.539	105	196198	2.103	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	65089	1.978	ppbv	98
64) n-propylbenzene	10.985	120	50569	2.074	ppbv	93
65) tert-Butylbenzene	11.529	119	178218	2.147	ppbv	98
66) Benzyl Chloride	11.613	91	18992	2.181	ppbv	98
67) sec-Butylbenzene	11.765	105	249510	2.158	ppbv	100
69) p-Isopropyltoluene	11.924	119	210808	2.158	ppbv	97
70) n-Butylbenzene	12.280	91	206691	2.167	ppbv	100
71) 2-Chlorotoluene	10.898	91	147901	2.099	ppbv	100
72) 4-Ethyltoluene	11.124	105	164770	2.102	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	135344	2.128	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	150772	2.147	ppbv	98
75) 1,3-Dichlorobenzene	11.607	146	92487	2.124	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	92794	2.145	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	88825	2.144	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	70481	2.175	ppbv	99
79) Naphthalene	13.510	128	142653	2.297	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	41369	2.157	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	75139	2.263	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

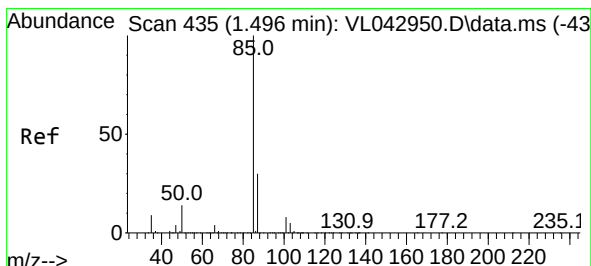
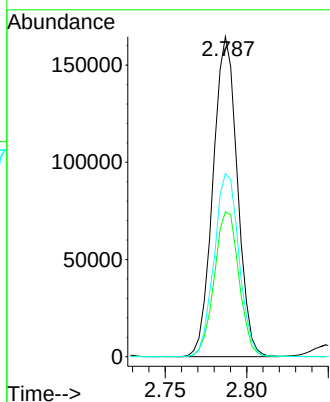
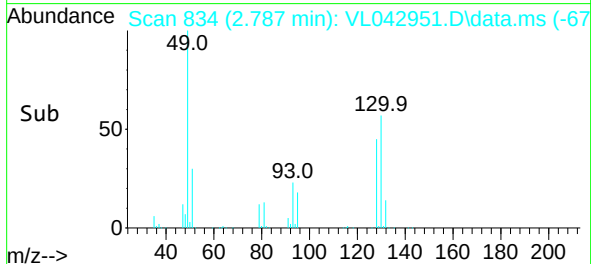
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



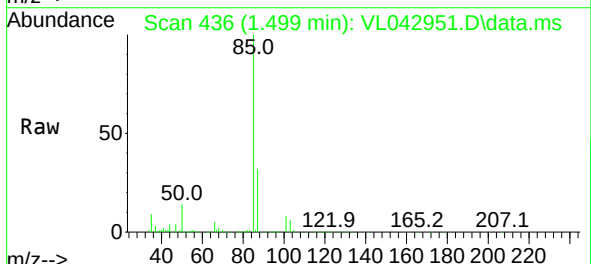
Tgt Ion: 49 Resp: 170758
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.8
130 58.5 29.1 87.3

Manual Integrations
APPROVED

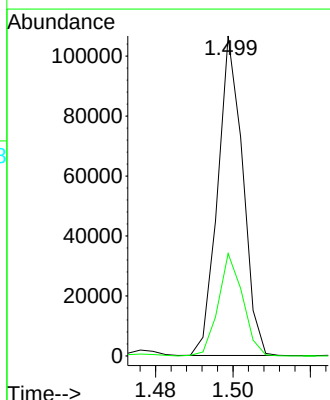
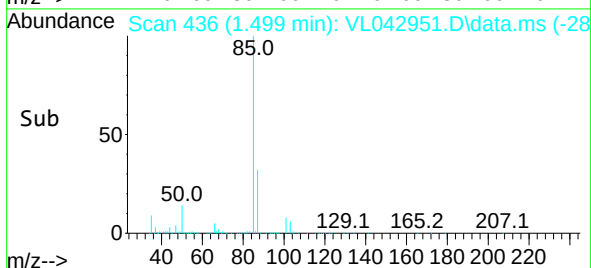
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

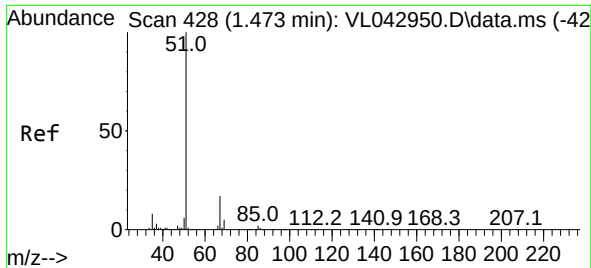


#2
Dichlorodifluoromethane
Concen: 2.083 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14



Tgt Ion: 85 Resp: 47851
Ion Ratio Lower Upper
85 100
87 32.0 24.3 36.5





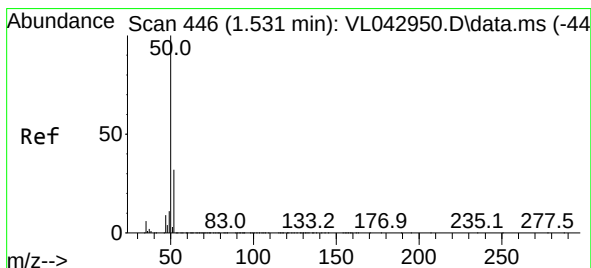
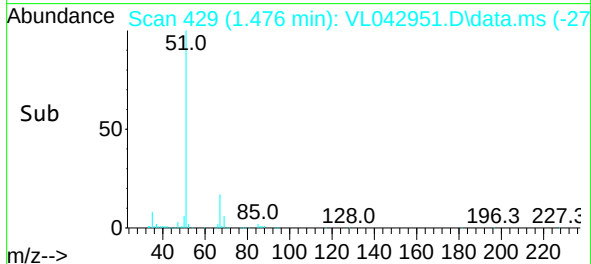
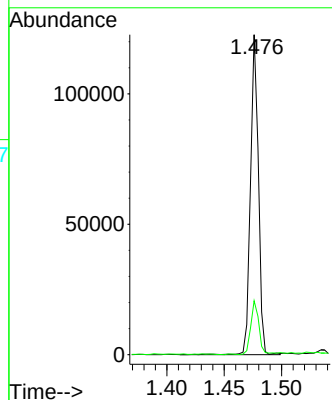
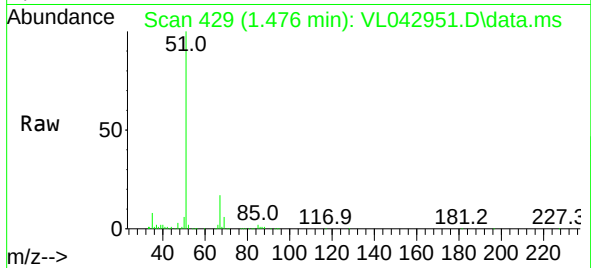
#3
Chlorodifluoromethane
Concen: 2.040 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 5839
Ion Ratio Lower Upper
51 100
67 19.4 13.8 20.8

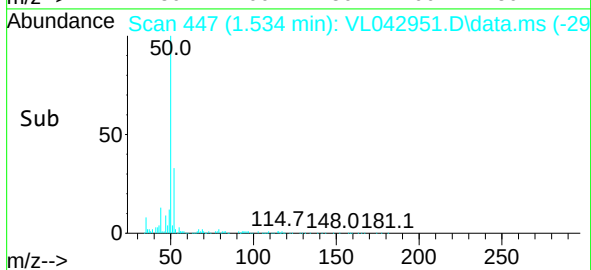
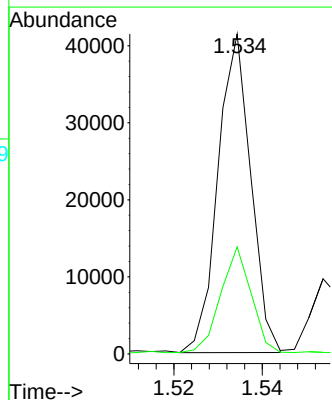
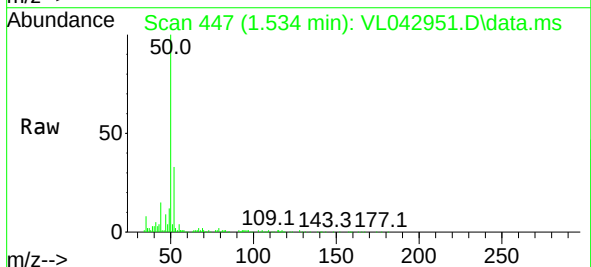
Manual Integrations
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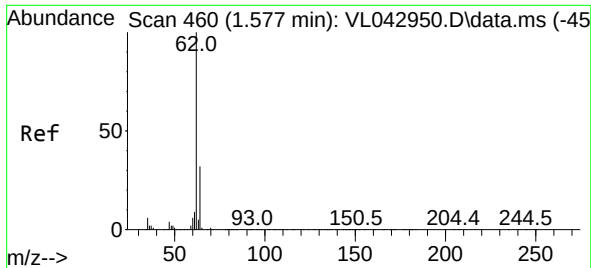
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#4
Chloromethane
Concen: 2.051 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion: 50 Resp: 21326
Ion Ratio Lower Upper
50 100
52 33.2 25.9 38.9





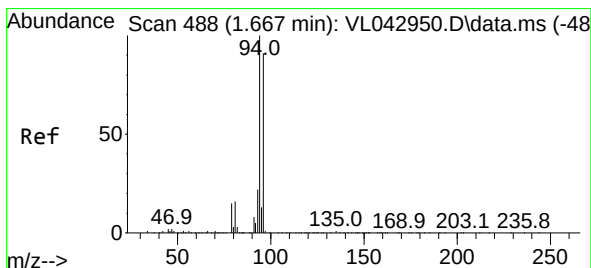
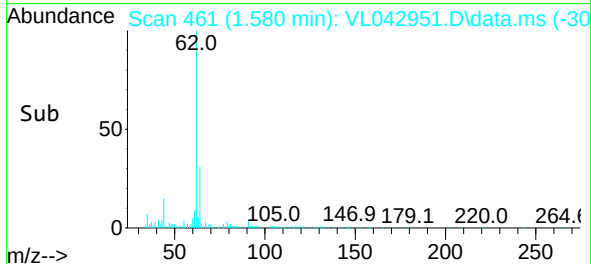
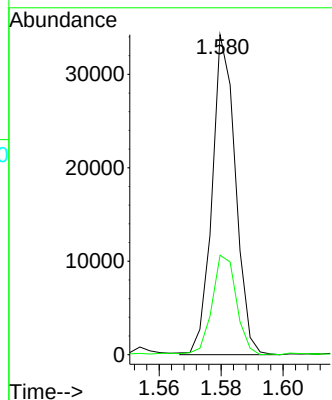
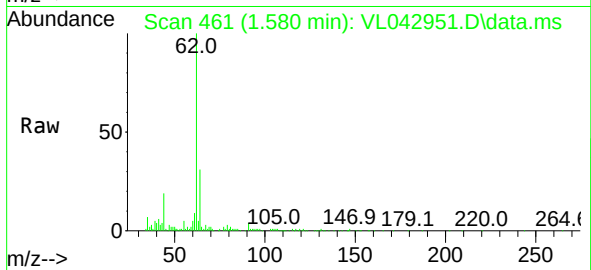
#5
 Vinyl Chloride
 Concen: 1.904 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

Tgt Ion: 62 Resp: 17892
 Ion Ratio Lower Upper
 62 100
 64 30.8 25.4 38.2

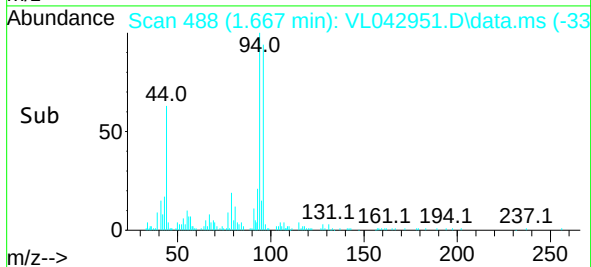
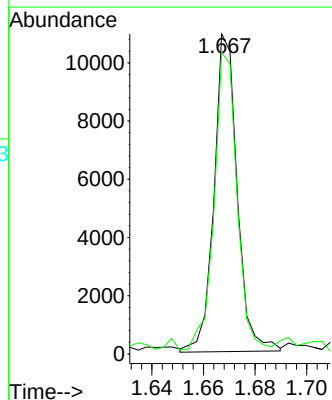
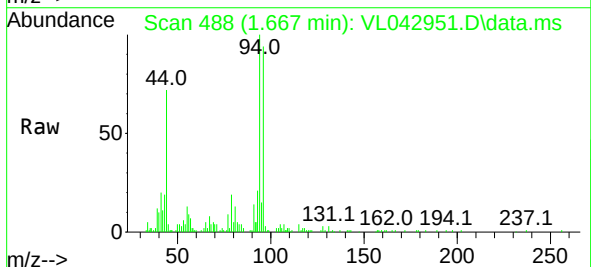
Manual Integrations
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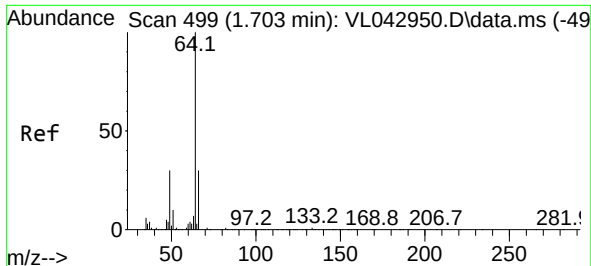
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#6
 Bromomethane
 Concen: 2.056 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

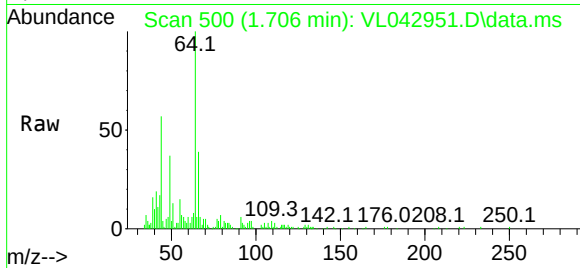
Tgt Ion: 94 Resp: 6816
 Ion Ratio Lower Upper
 94 100
 96 94.4 72.6 108.8





#7
Chloroethane
Concen: 1.987 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

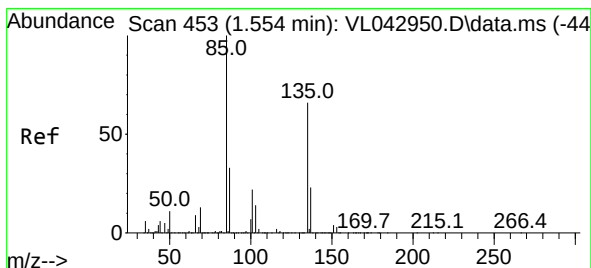
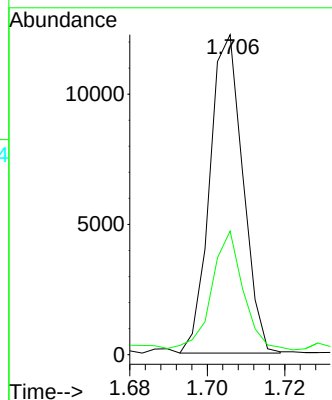
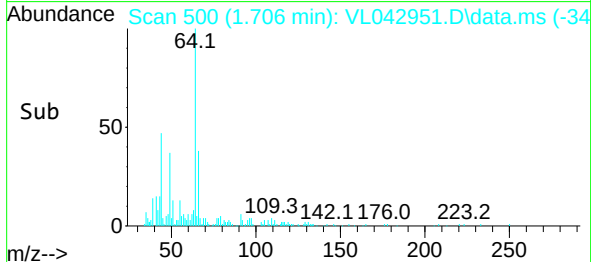
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



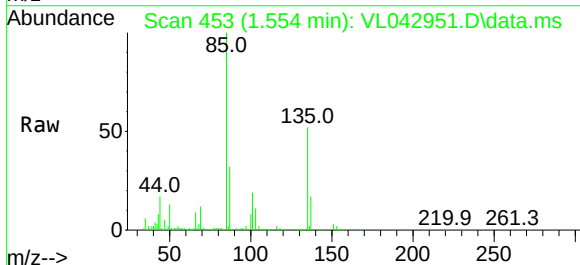
Tgt Ion: 64 Resp: 7250
Ion Ratio Lower Upper
64 100
66 38.7 24.6 36.8

Manual Integrations
APPROVED

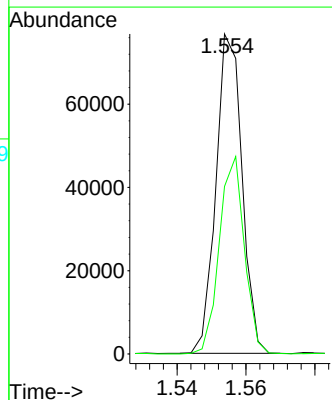
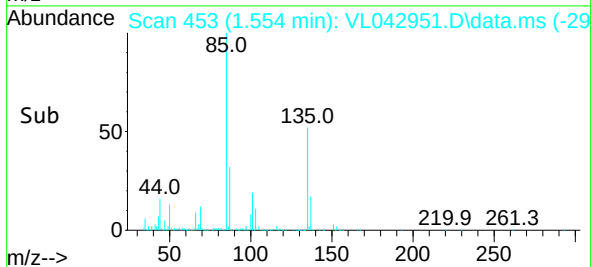
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

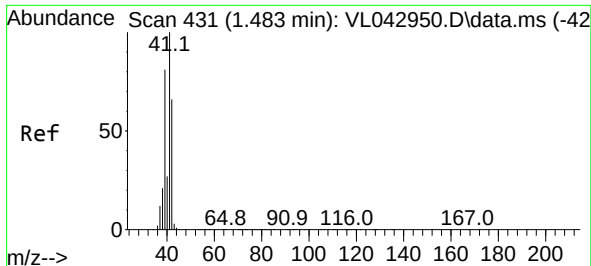


#8
Dichlorotetrafluoroethane
Concen: 2.056 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14



Tgt Ion: 85 Resp: 40306
Ion Ratio Lower Upper
85 100
135 60.2 49.7 74.5





#9

Propene

Concen: 2.088 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 41 Resp: 2600

Ion Ratio Lower Upper

41 100

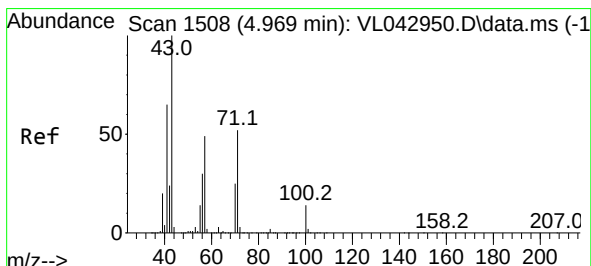
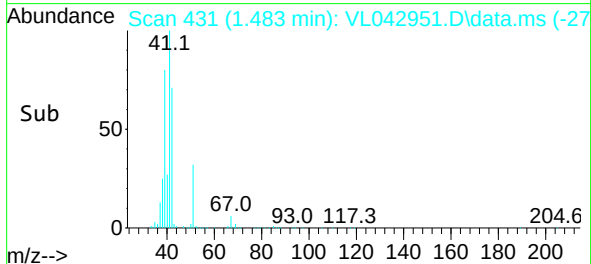
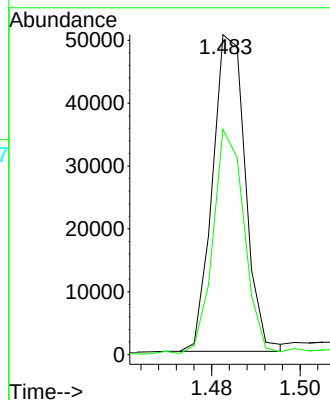
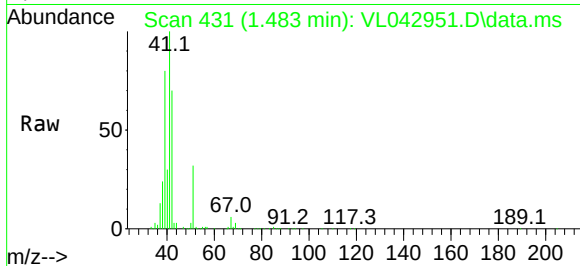
42 72.4 57.4 86.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#10

Heptane

Concen: 2.005 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.010 min

Lab File: VL042951.D

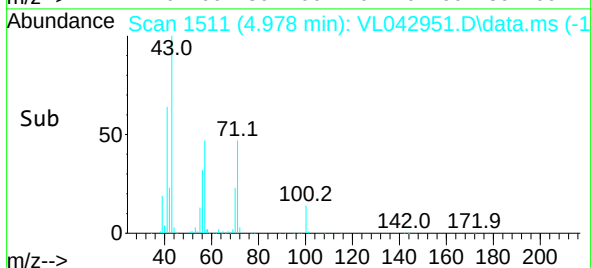
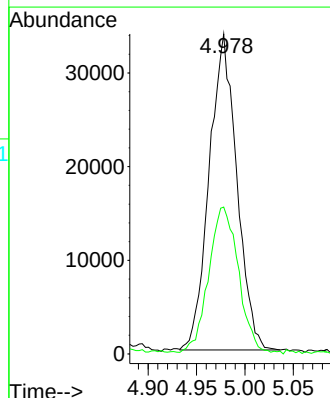
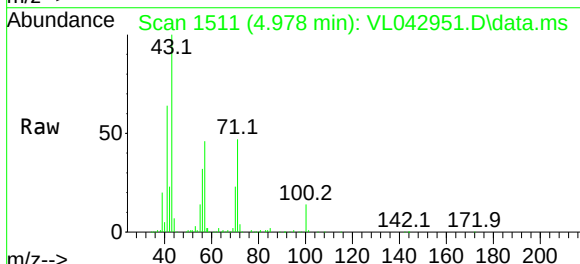
Acq: 22 Sep 2025 10:14

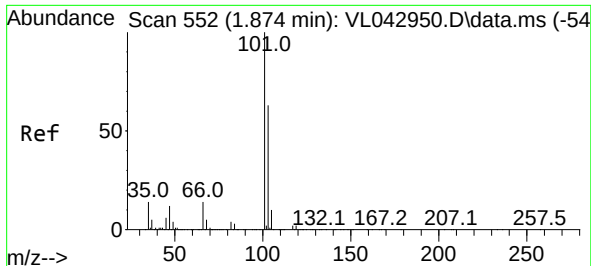
Tgt Ion: 43 Resp: 66978

Ion Ratio Lower Upper

43 100

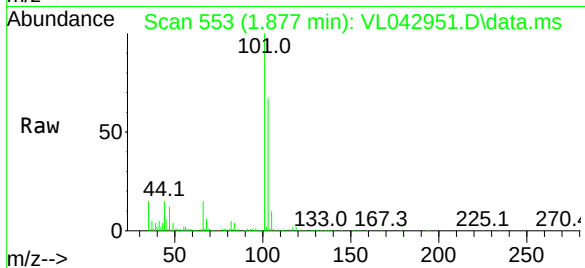
57 49.1 38.6 57.8





#11
 Trichlorofluoromethane
 Concen: 2.076 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

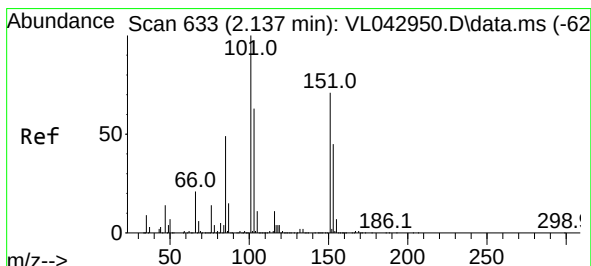
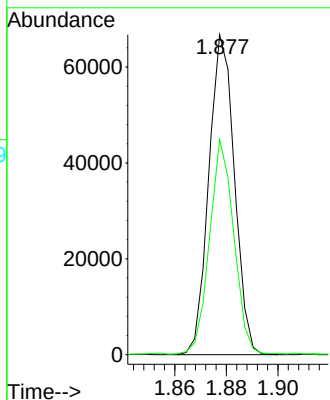
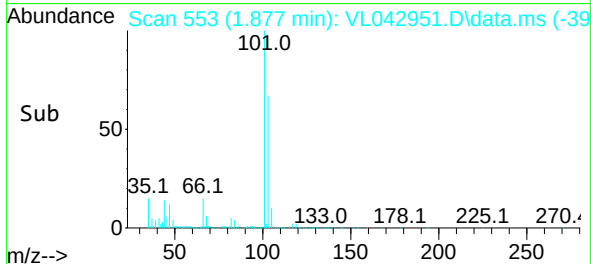
Instrument :
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 ClientSampleId :
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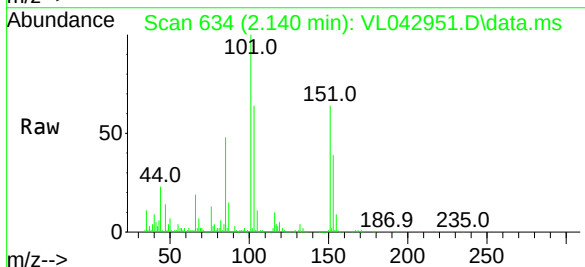
Tgt Ion:101 Resp: 45973
 Ion Ratio Lower Upper
 101 100
 103 66.9 50.1 75.1

Manual Integrations
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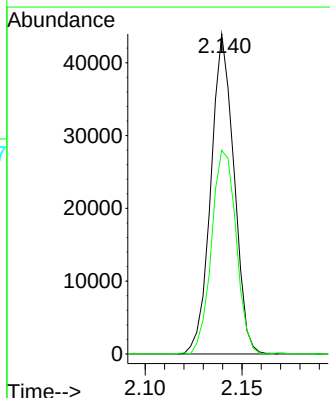
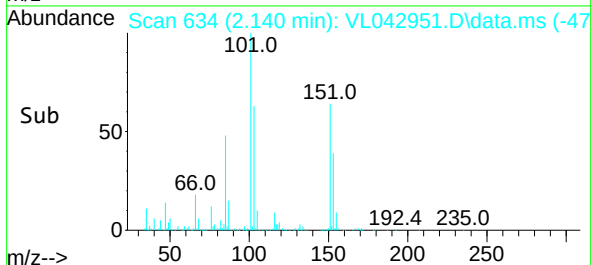
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

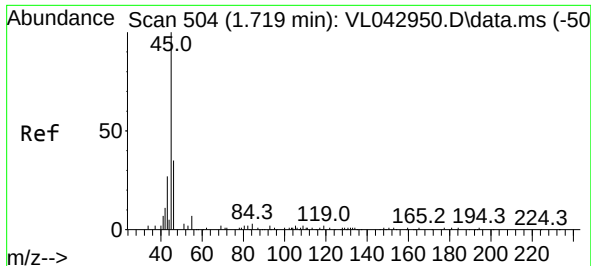


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.035 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14



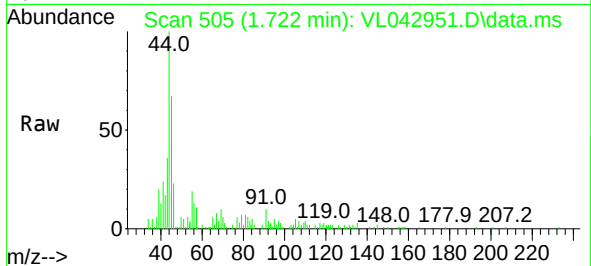
Tgt Ion:101 Resp: 36490
 Ion Ratio Lower Upper
 101 100
 151 67.9 55.7 83.5





#13
Ethanol
Concen: 2.504 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

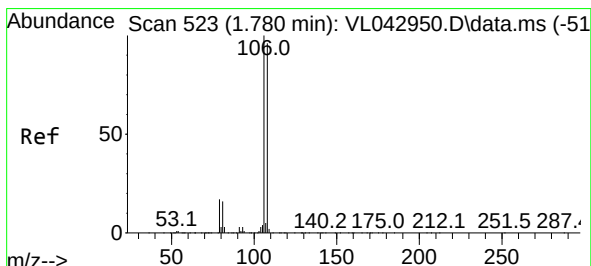
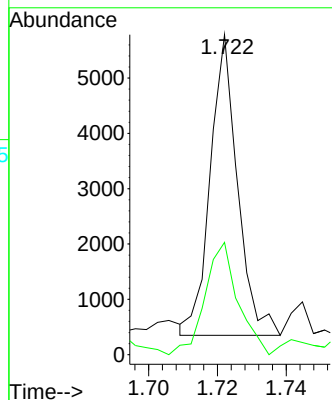
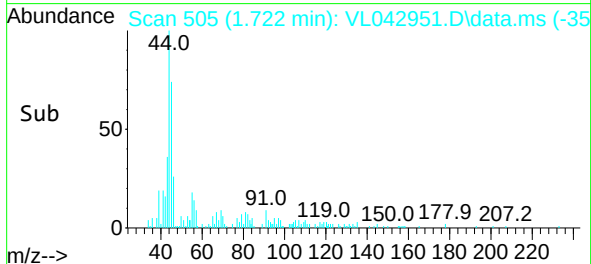
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ClientSampleId :
VSTDICC002



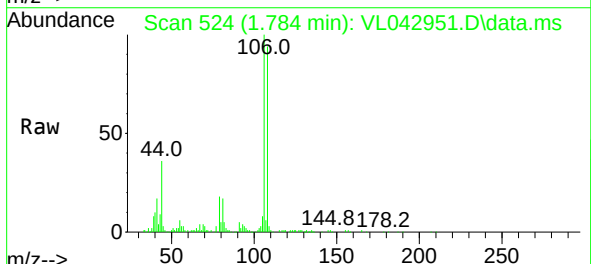
Tgt Ion: 45 Resp: 2989
Ion Ratio Lower Upper
45 100
46 36.0 16.2 64.6

Manual Integrations
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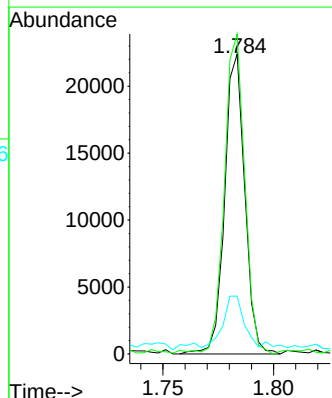
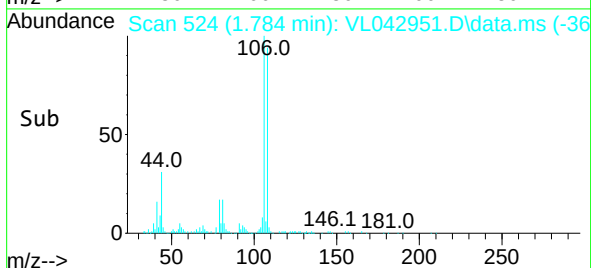
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

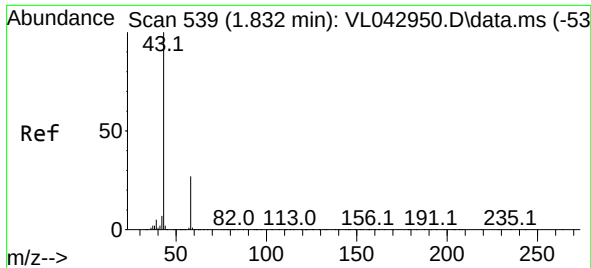


#14
Bromoethene
Concen: 2.093 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14



Tgt Ion:108 Resp: 14189
Ion Ratio Lower Upper
108 100
106 109.5 86.0 129.0
79 26.5 14.2 21.2





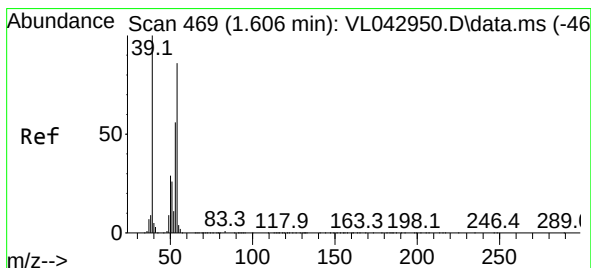
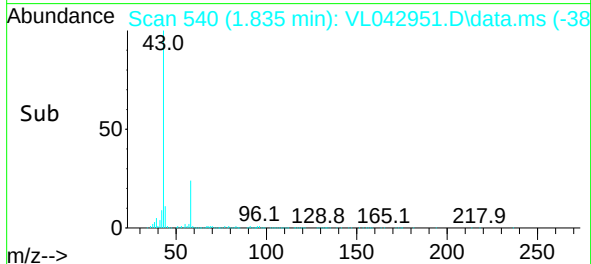
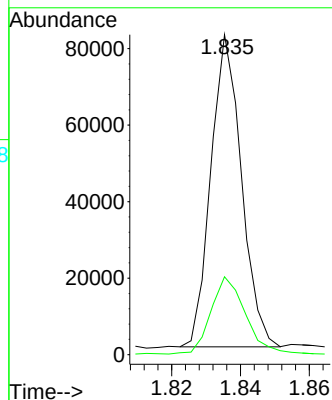
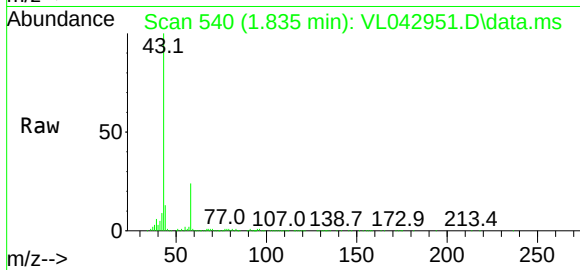
#15
Acetone
Concen: 2.264 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 5035
Ion Ratio Lower Upper
43 100
58 28.5 22.3 33.5

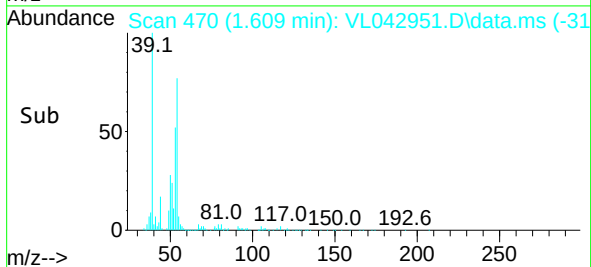
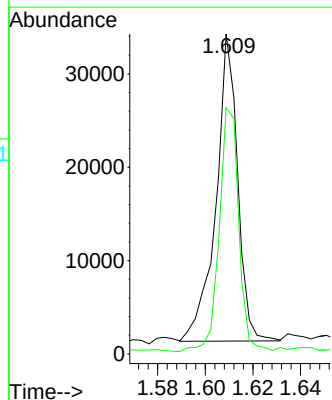
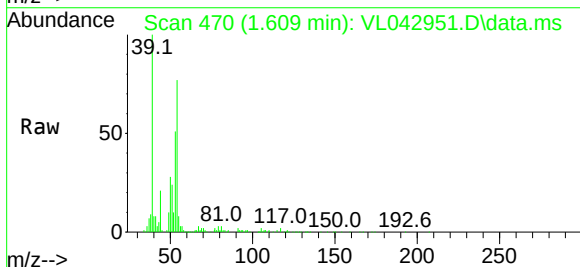
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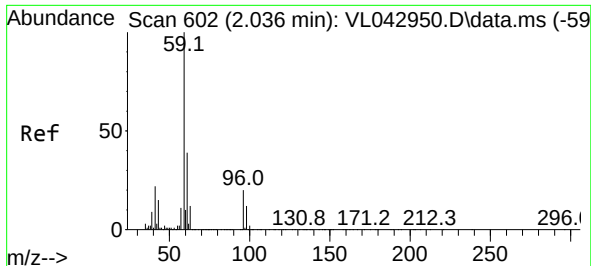
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#16
1,3-Butadiene
Concen: 1.976 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

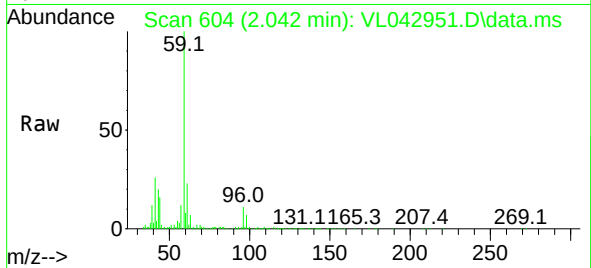
Tgt Ion: 39 Resp: 20729
Ion Ratio Lower Upper
39 100
54 80.8 60.8 91.2





#17
tert-Butyl alcohol
Concen: 1.957 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

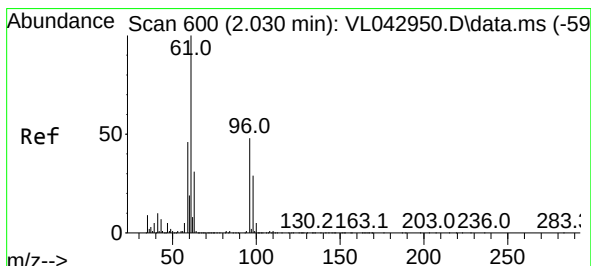
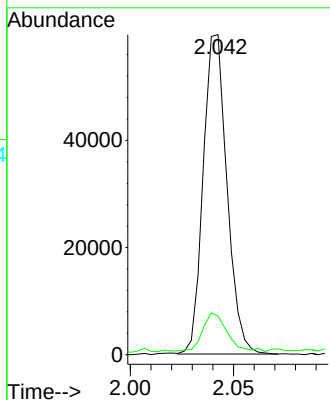
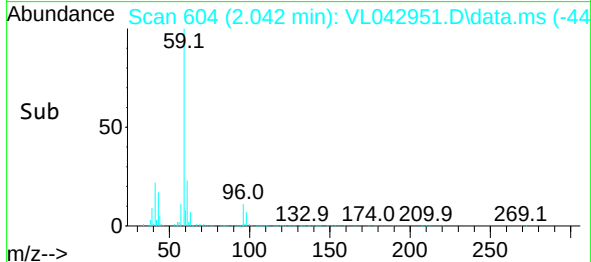
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



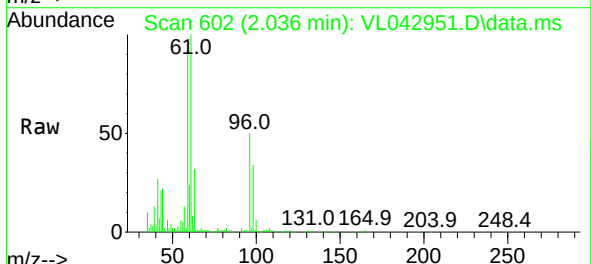
Tgt Ion: 59 Resp: 47749
Ion Ratio Lower Upper
59 100
57 13.4 8.6 12.8

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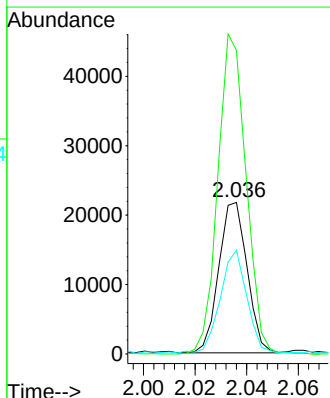
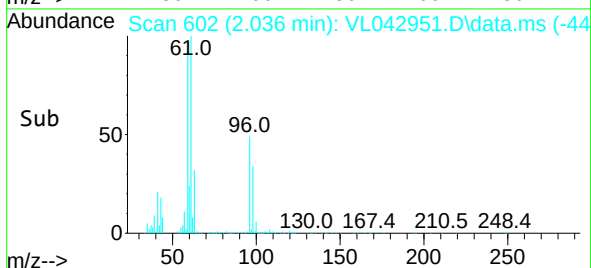
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

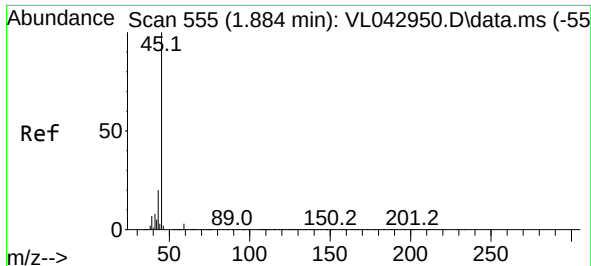


#18
1,1-Dichloroethene
Concen: 1.996 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14



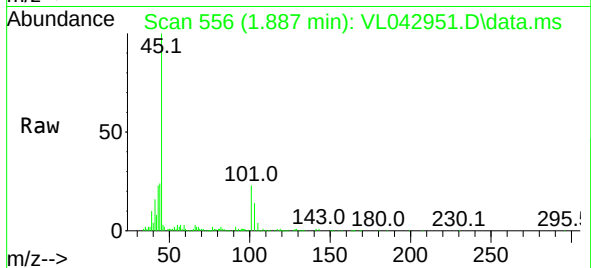
Tgt Ion: 96 Resp: 16572
Ion Ratio Lower Upper
96 100
61 201.8 166.2 249.4
98 68.2 48.6 73.0





#19
Isopropyl Alcohol
Concen: 2.089 ppbv
RT: 1.887 min Scan# 510
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

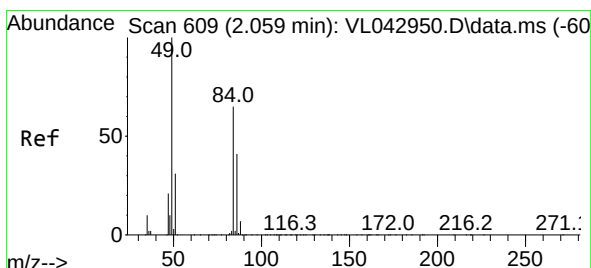
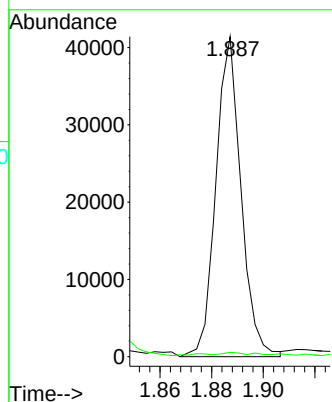
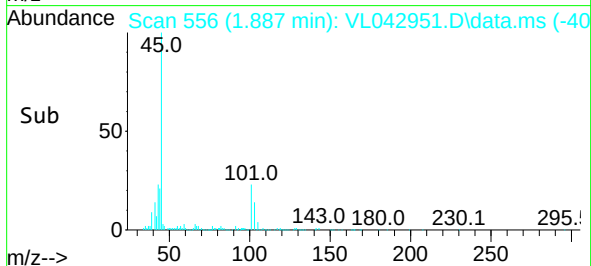
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



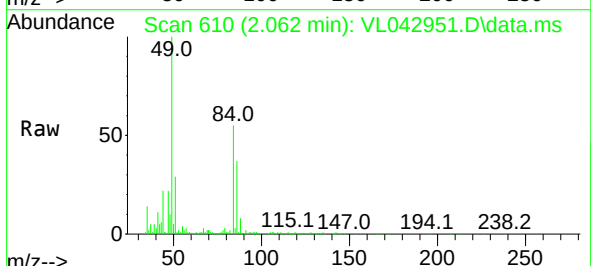
Tgt Ion: 45 Resp: 27930
Ion Ratio Lower Upper
45 100
58 51.6 31.0 46.6

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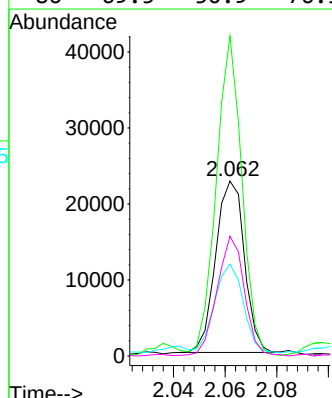
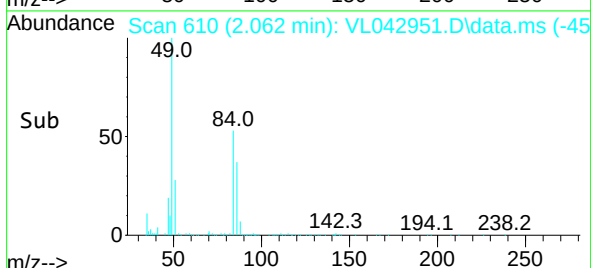
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

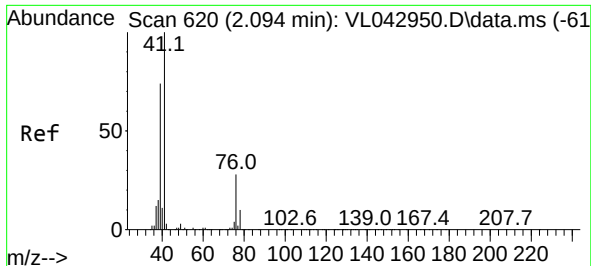


#20
Methylene Chloride
Concen: 2.097 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14



Tgt Ion: 84 Resp: 17413
Ion Ratio Lower Upper
84 100
49 186.6 124.1 186.1#
51 51.7 39.8 59.8
86 69.5 50.9 76.3





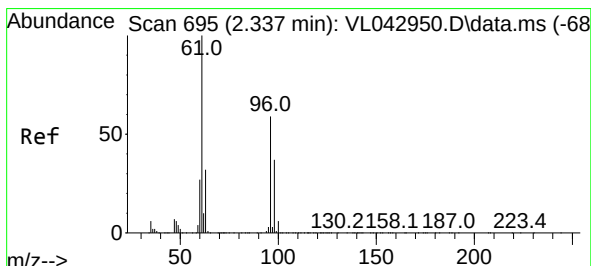
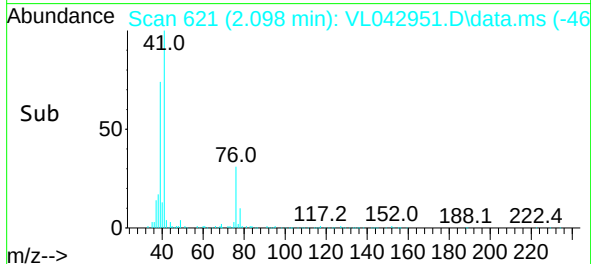
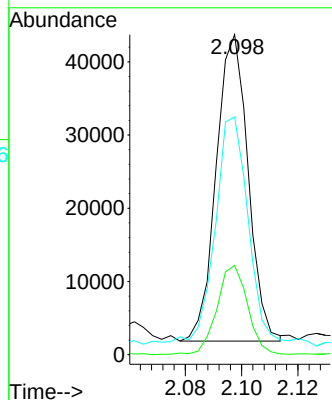
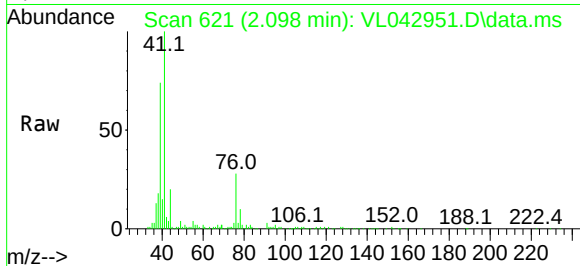
#21
 Allyl Chloride
 Concen: 2.130 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion: 41 Resp: 3298
 Ion Ratio Lower Upper
 41 100
 76 27.9 22.3 33.5
 39 76.0 61.3 91.9

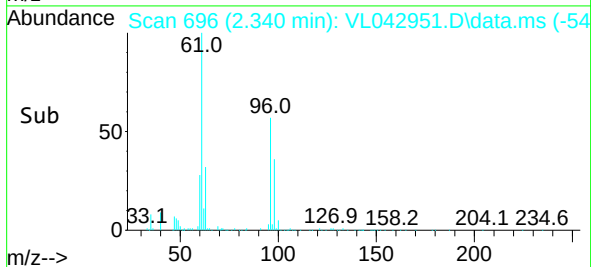
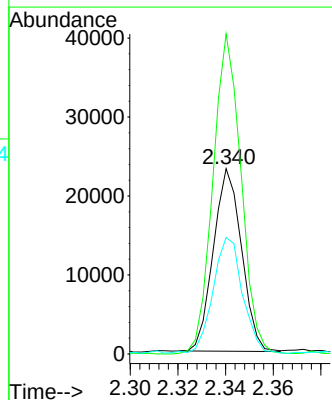
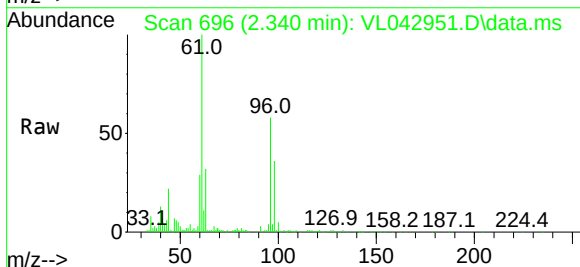
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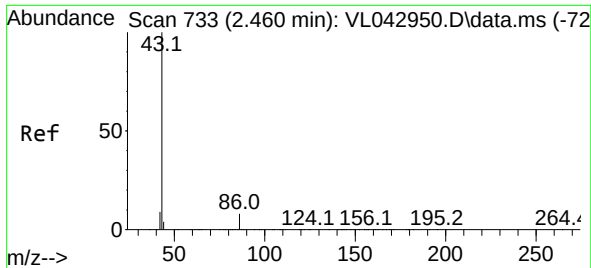
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#22
 trans-1,2-Dichloroethene
 Concen: 2.013 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

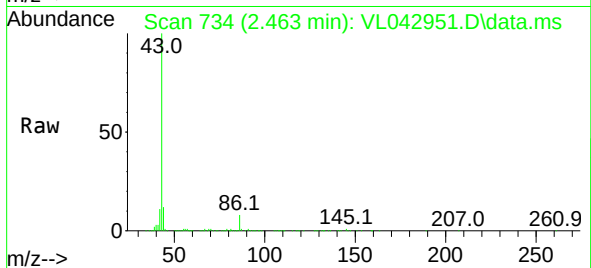
Tgt Ion: 96 Resp: 18991
 Ion Ratio Lower Upper
 96 100
 61 175.1 136.5 204.7
 98 63.3 50.6 76.0





#23
 Vinyl Acetate
 Concen: 2.029 ppbv
 RT: 2.463 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

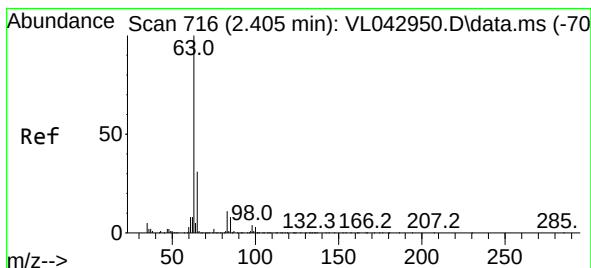
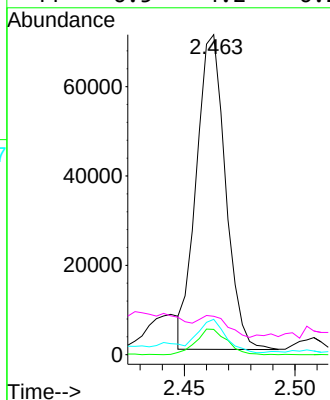
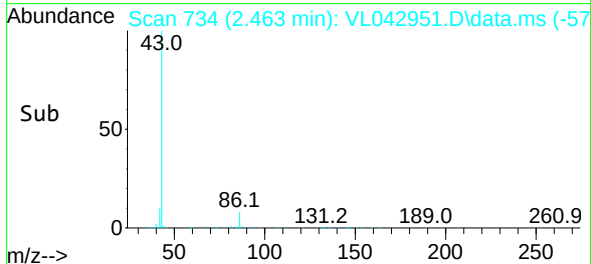
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion: 43 Resp: 64479
 Ion Ratio Lower Upper
 43 100
 86 8.0 6.2 9.2
 42 10.3 7.4 11.0
 44 6.5 4.2 6.2#

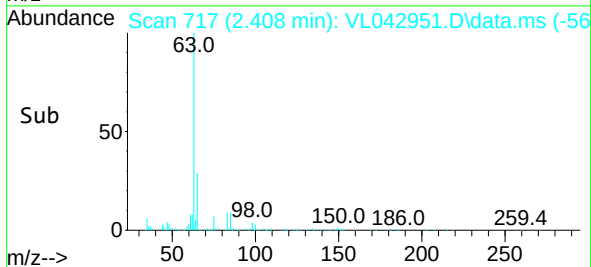
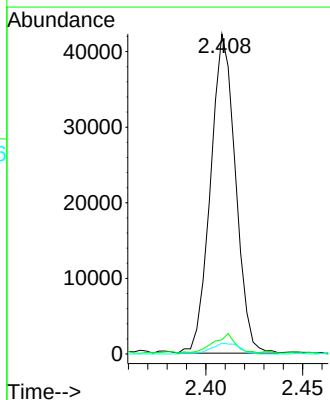
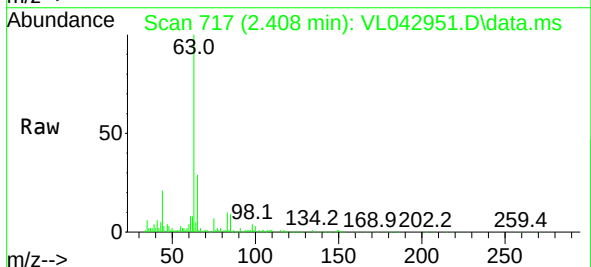
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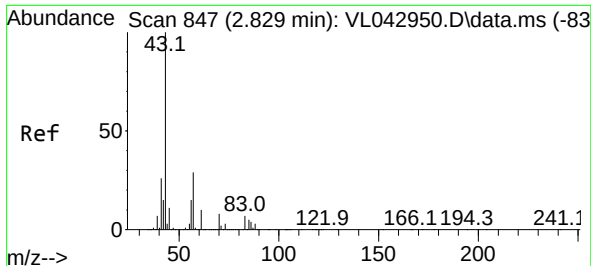
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#24
 1,1-Dichloroethane
 Concen: 2.047 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

Tgt Ion: 63 Resp: 37865
 Ion Ratio Lower Upper
 63 100
 98 4.1 2.2 6.6
 100 3.4 1.4 4.0





#25

Ethyl Acetate

Concen: 2.092 ppbv

RT: 2.835 min Scan# 84

Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 43 Resp: 11756

Ion Ratio Lower Upper

43 100

45 10.4 7.7 11.5

61 8.8 7.1 10.7

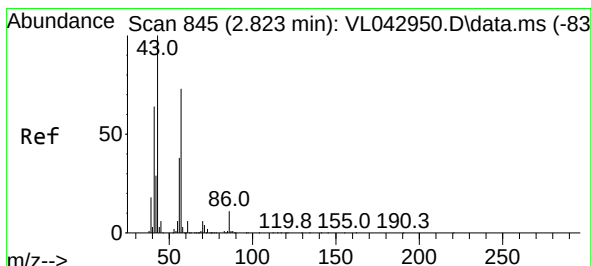
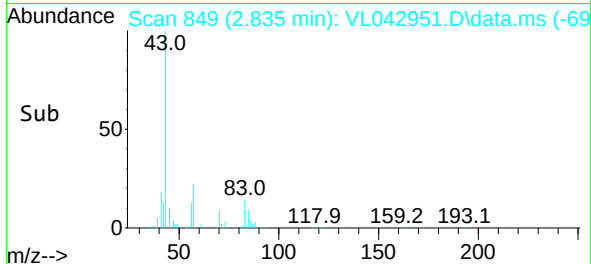
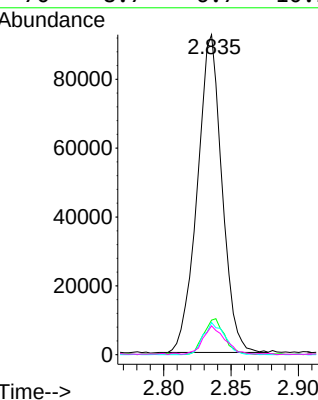
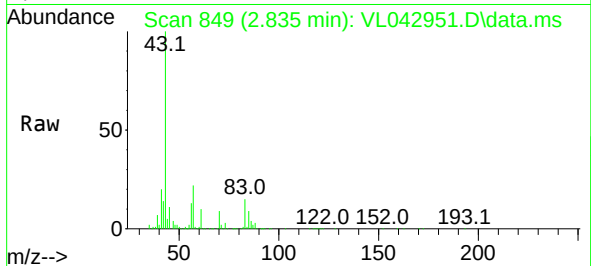
70 8.7 6.7 10.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#26

Hexane

Concen: 2.070 ppbv

RT: 2.826 min Scan# 846

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Tgt Ion: 57 Resp: 53034

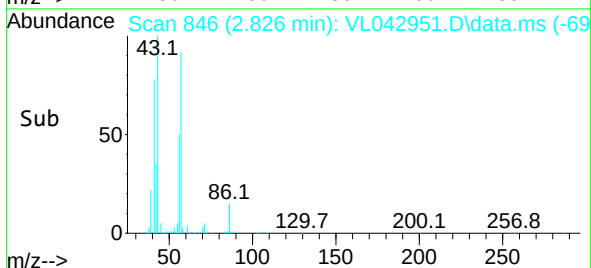
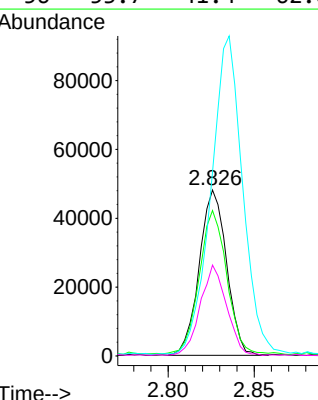
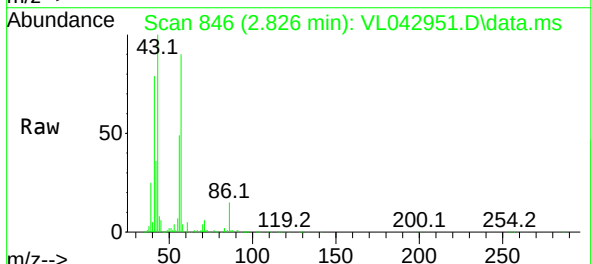
Ion Ratio Lower Upper

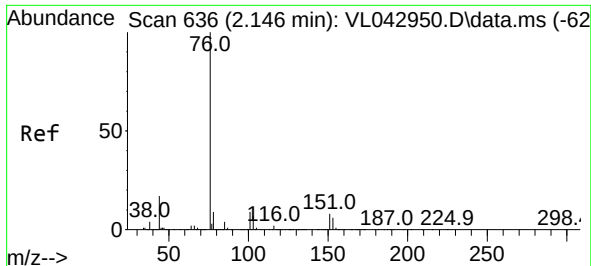
57 100

41 88.1 71.7 107.5

43 223.2 180.8 271.2

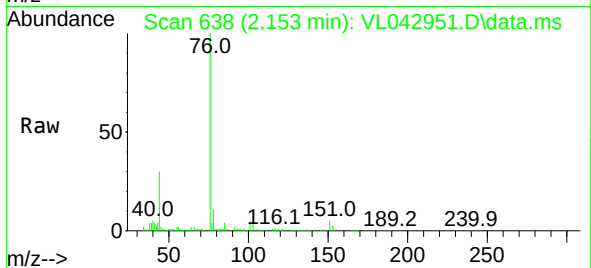
56 53.7 41.4 62.0





#27
Carbon Disulfide
Concen: 2.074 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

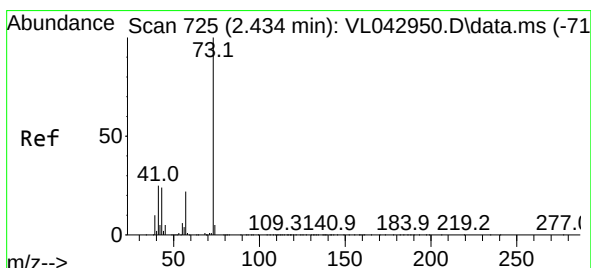
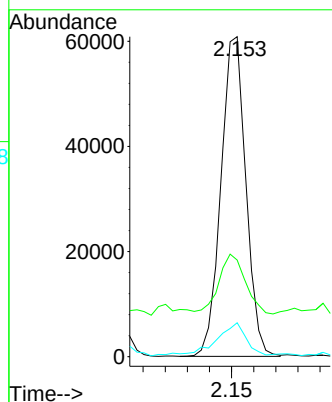
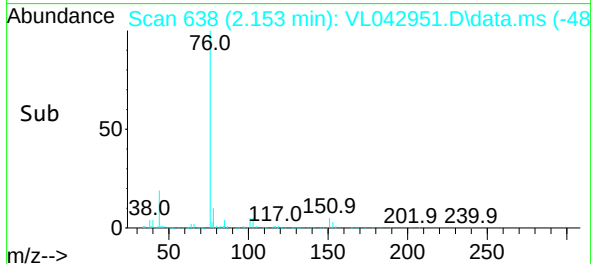
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 76 Resp: 47660
Ion Ratio Lower Upper
76 100
44 46.5 15.6 23.4
78 13.1 8.9 13.3

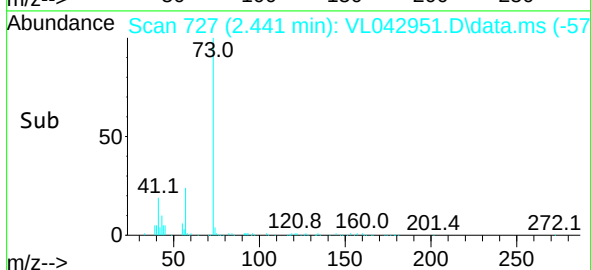
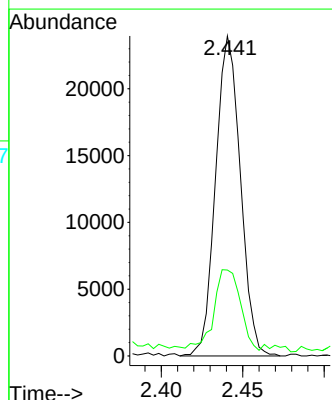
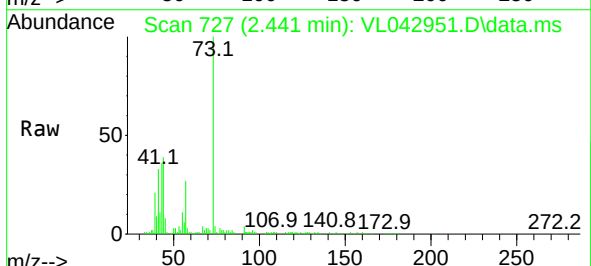
Manual Integrations
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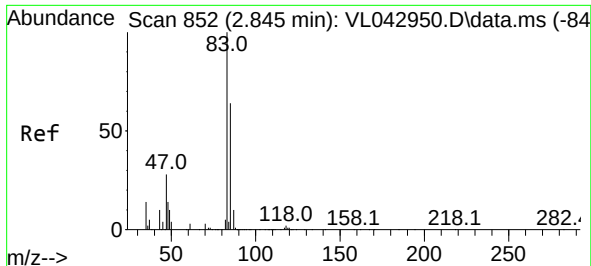
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#28
Methyl tert-Butyl Ether
Concen: 1.903 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

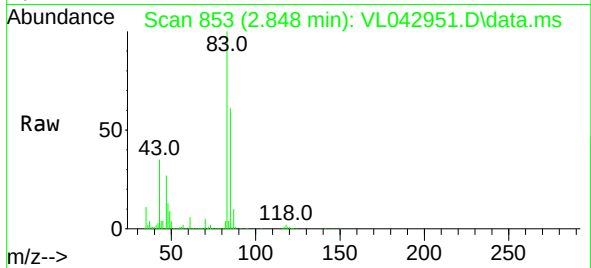
Tgt Ion: 73 Resp: 25348
Ion Ratio Lower Upper
73 100
57 29.8 20.6 31.0





#29
Chloroform
Concen: 2.077 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

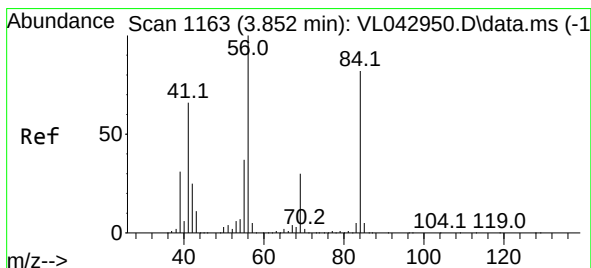
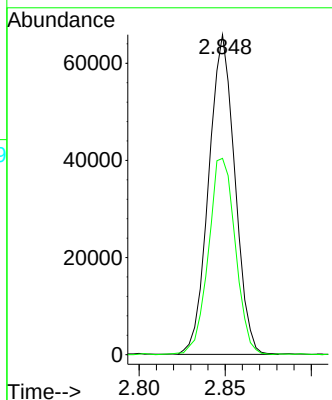
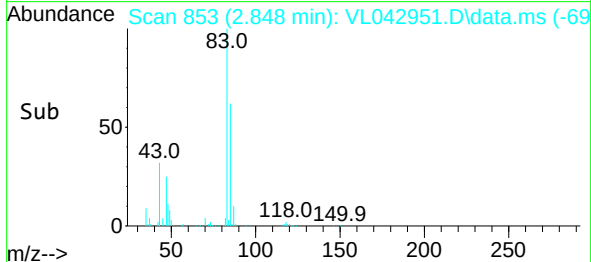
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



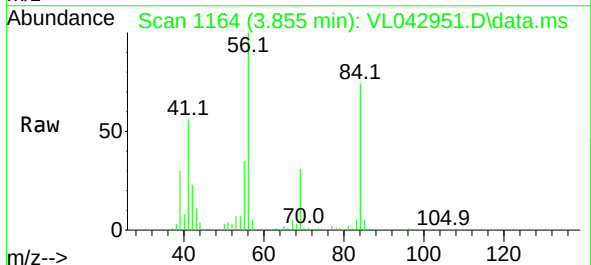
Tgt Ion: 83 Resp: 69599
Ion Ratio Lower Upper
83 100
85 61.2 51.2 76.8

Manual Integrations
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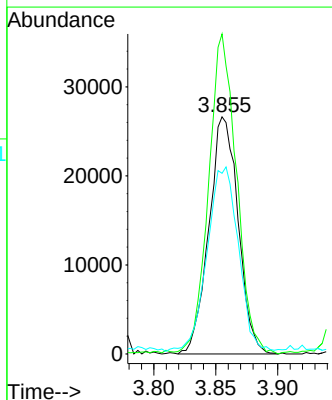
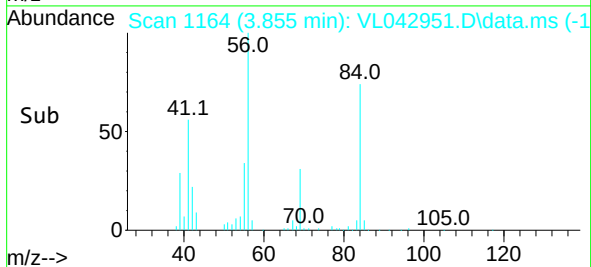
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

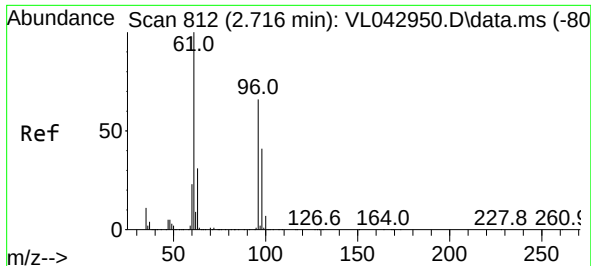


#30
Cyclohexane
Concen: 2.041 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14



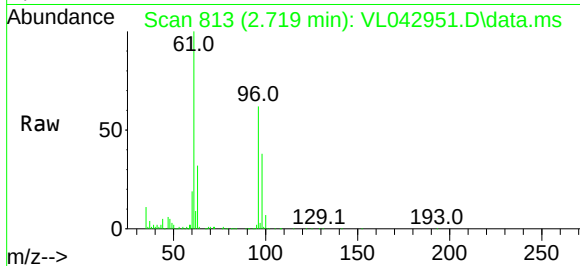
Tgt Ion: 84 Resp: 43725
Ion Ratio Lower Upper
84 100
56 129.8 102.2 153.4
41 81.2 65.6 98.4





#31
 cis-1,2-Dichloroethene
 Concen: 2.084 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

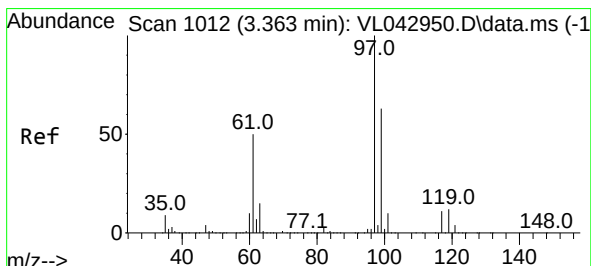
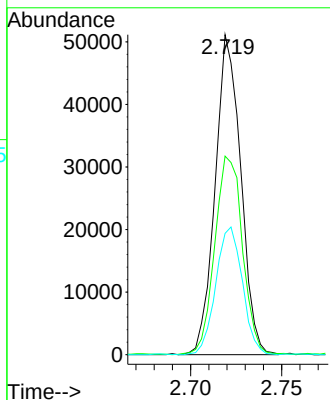
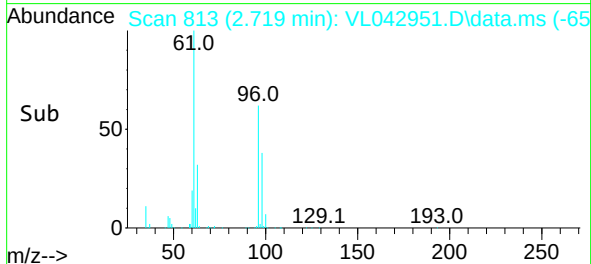
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002



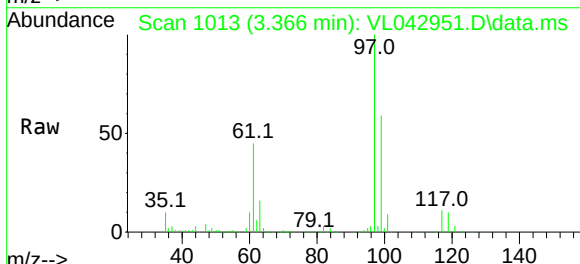
Tgt Ion: 61 Resp: 50019
 Ion Ratio Lower Upper
 61 100
 96 61.9 53.0 79.6
 98 37.9 32.9 49.3

Manual Integrations
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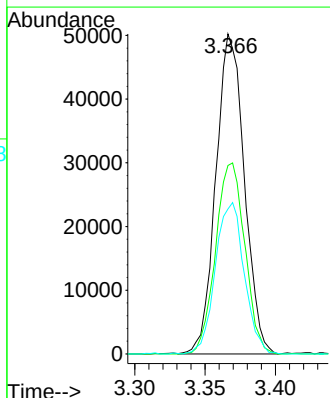
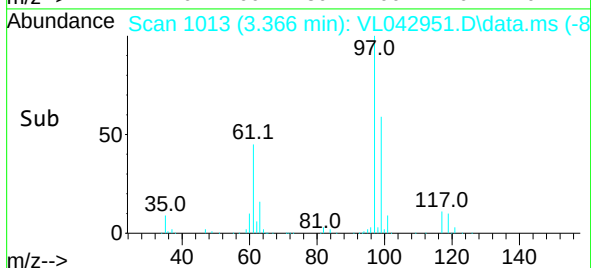
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

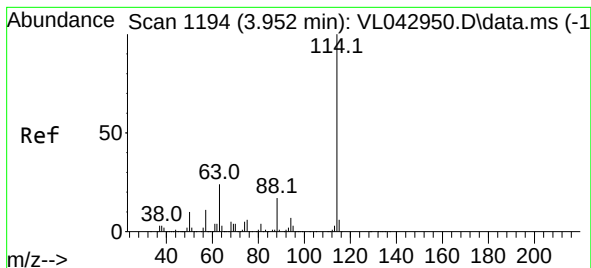


#32
 1,1,1-Trichloroethane
 Concen: 1.948 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14



Tgt Ion: 97 Resp: 70729
 Ion Ratio Lower Upper
 97 100
 99 61.2 51.1 76.7
 61 48.1 39.8 59.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1194

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

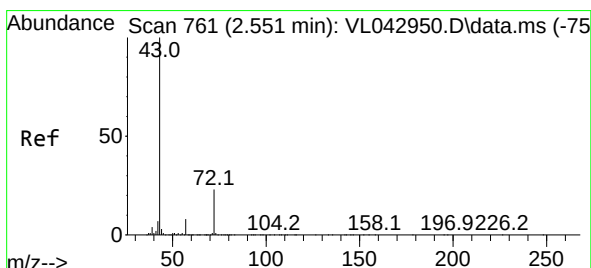
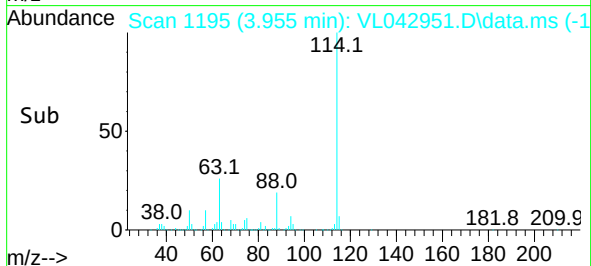
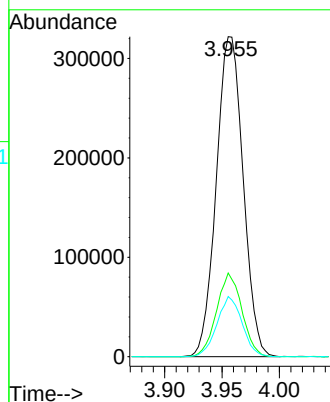
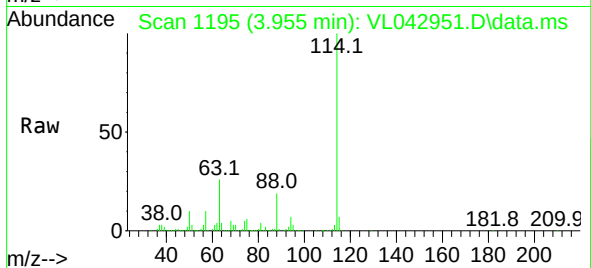
VSTDIC002

Tgt Ion:114 Resp: 524389
 Ion Ratio Lower Upper
 114 100
 63 24.7 19.4 29.2
 88 17.6 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#34

2-Butanone

Concen: 2.114 ppbv

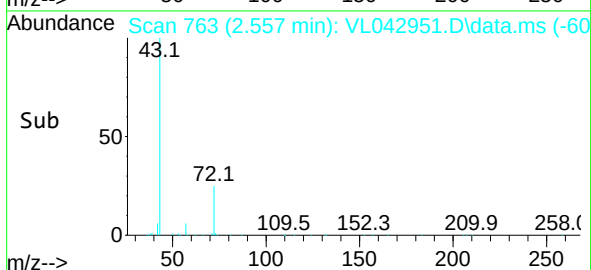
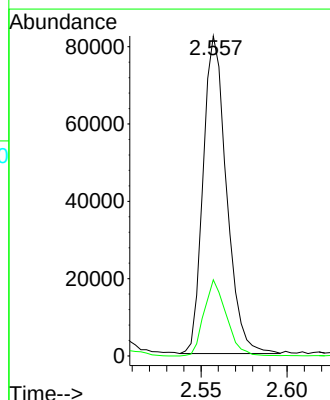
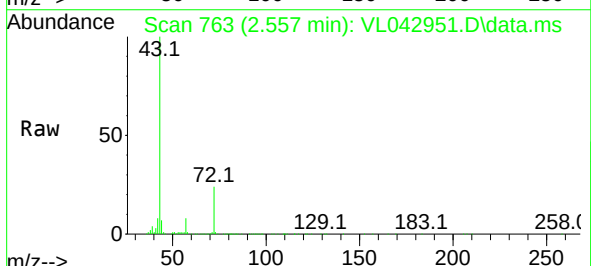
RT: 2.557 min Scan# 763

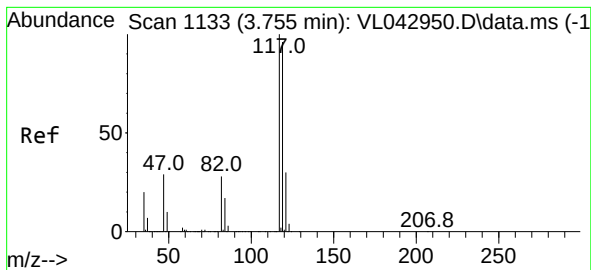
Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Tgt Ion: 43 Resp: 77689
 Ion Ratio Lower Upper
 43 100
 72 23.1 17.7 26.5





#35

Carbon Tetrachloride

Concen: 2.041 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

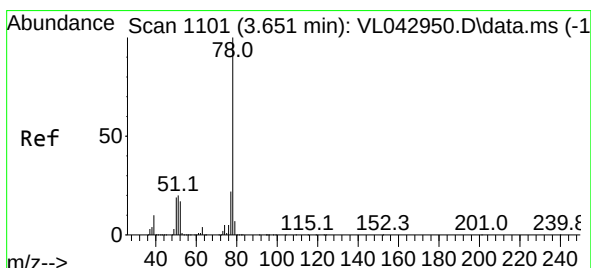
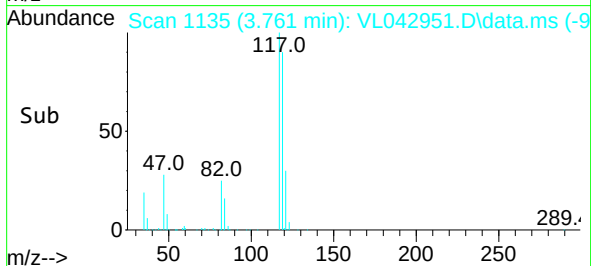
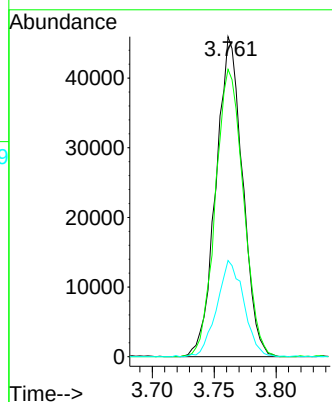
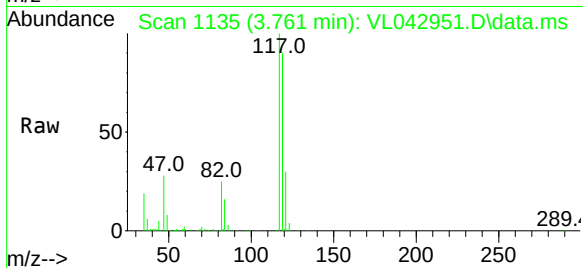
VSTDIC002

Tgt Ion:	117	Resp:	6885
Ion	Ratio	Lower	Upper
117	100		
119	89.8	76.9	115.3
121	30.0	23.7	35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#36

Benzene

Concen: 2.069 ppbv

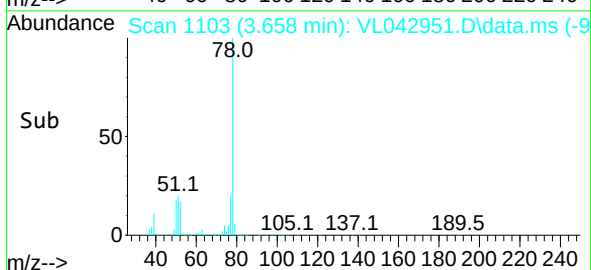
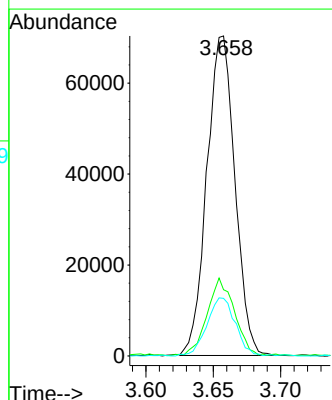
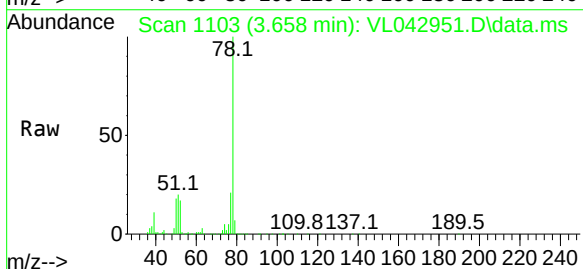
RT: 3.658 min Scan# 1103

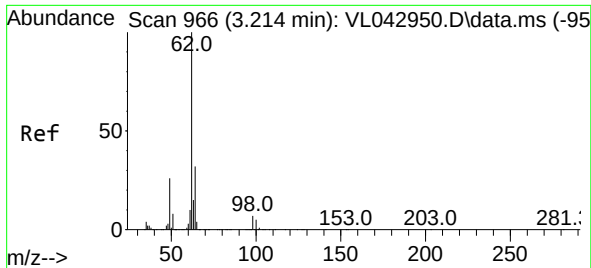
Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

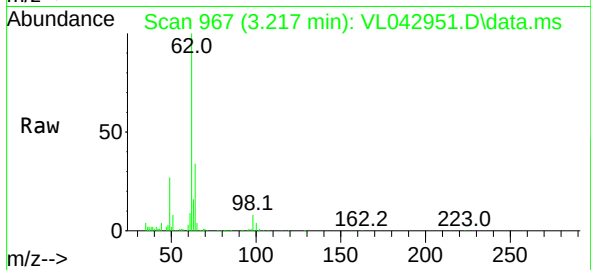
Tgt Ion:	78	Resp:	101901
Ion	Ratio	Lower	Upper
78	100		
77	20.5	17.8	26.6
50	17.7	15.0	22.4





#37
1,2-Dichloroethane
Concen: 2.052 ppbv
RT: 3.217 min Scan# 966
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

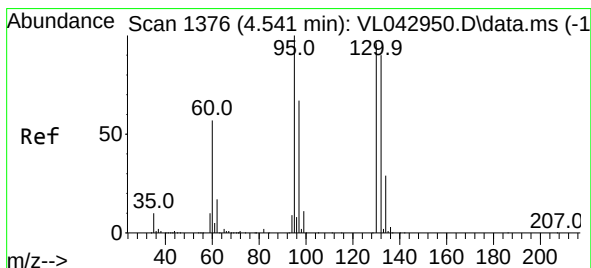
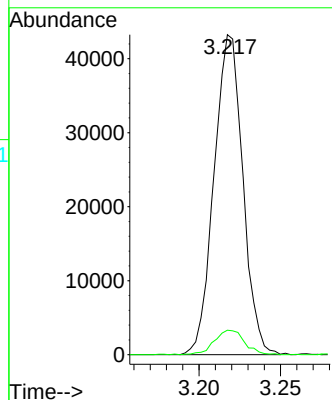
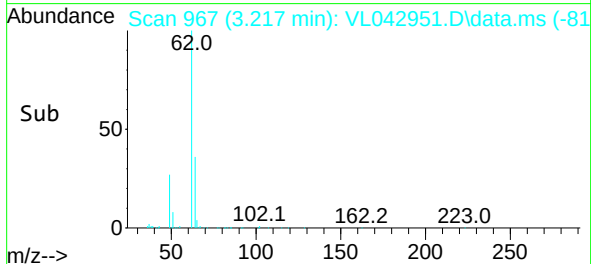
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



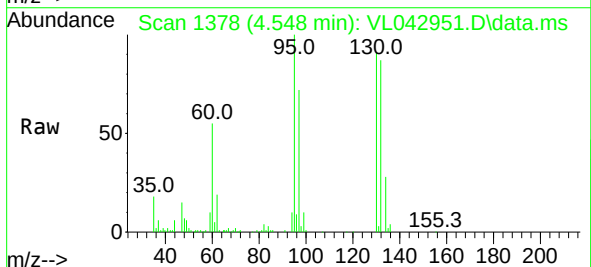
Tgt Ion: 62 Resp: 53130
Ion Ratio Lower Upper
62 100
98 8.1 5.9 8.9

Manual Integrations
APPROVED

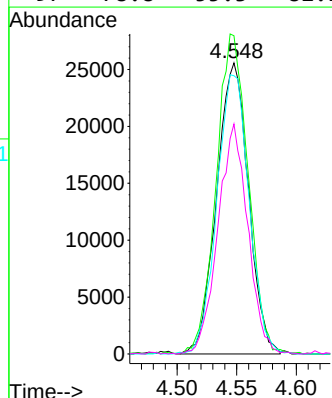
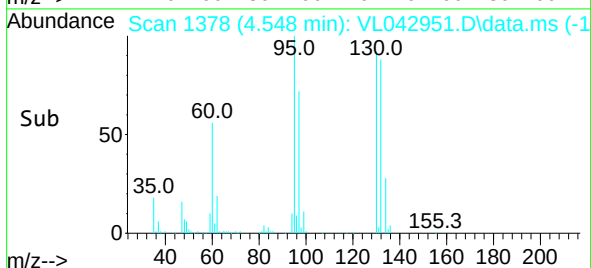
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

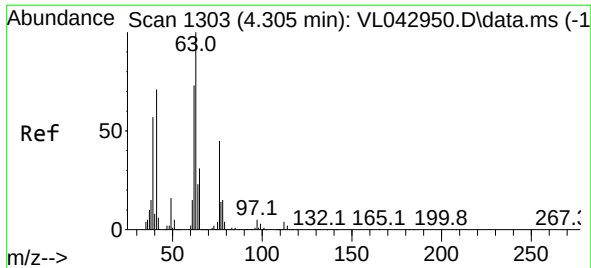


#38
Trichloroethene
Concen: 1.938 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14



Tgt Ion:130 Resp: 47424
Ion Ratio Lower Upper
130 100
95 109.0 83.0 124.4
132 95.0 74.6 112.0
97 78.8 55.3 82.9





#39

1,2-Dichloropropane

Concen: 2.078 ppbv m

RT: 4.308 min Scan# 1303

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

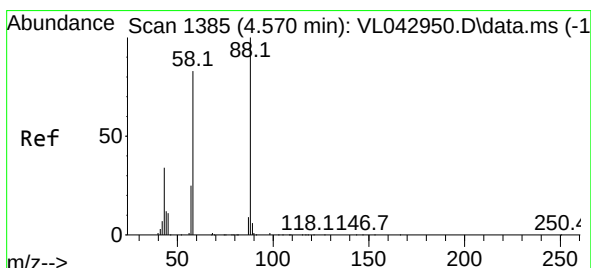
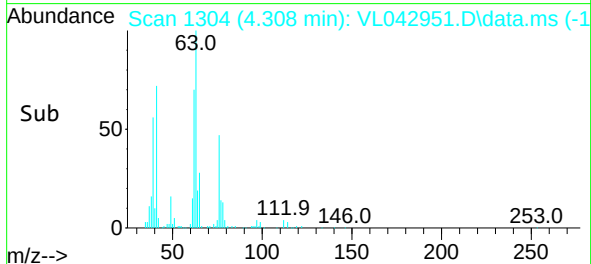
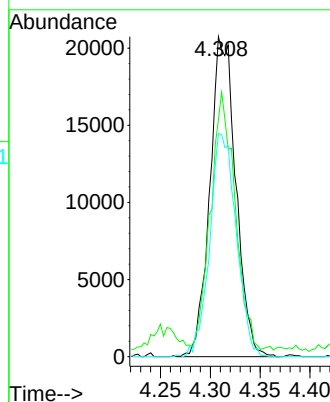
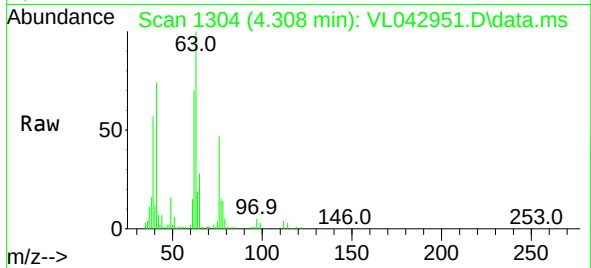
VSTDICC002

Tgt Ion: 63	Resp: 3738
Ion Ratio	Lower Upper
63 100	
41 74.1	57.5 86.3
62 69.7	58.5 87.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#40

1,4-Dioxane

Concen: 2.044 ppbv m

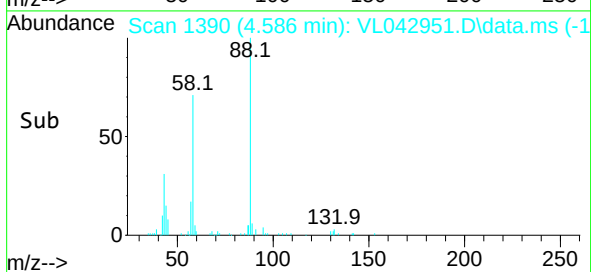
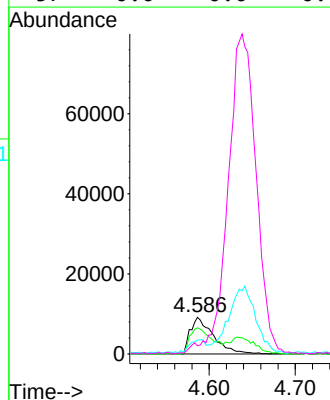
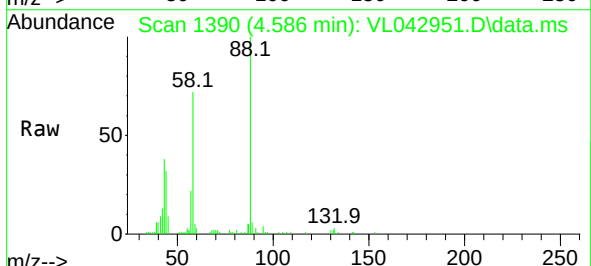
RT: 4.586 min Scan# 1390

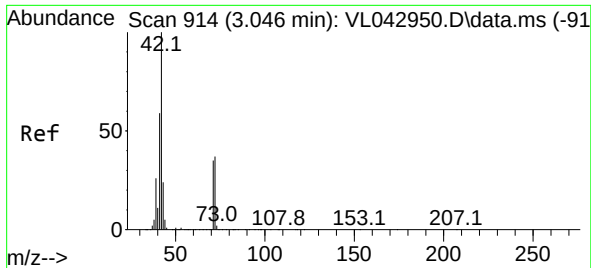
Delta R.T. 0.016 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

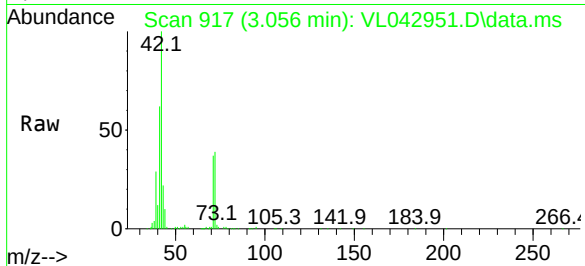
Tgt Ion: 88	Resp: 17074
Ion Ratio	Lower Upper
88 100	
58 72.4	59.7 89.5
43 0.0	28.9 43.3#
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 2.081 ppbv
RT: 3.056 min Scan# 914
Delta R.T. 0.010 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

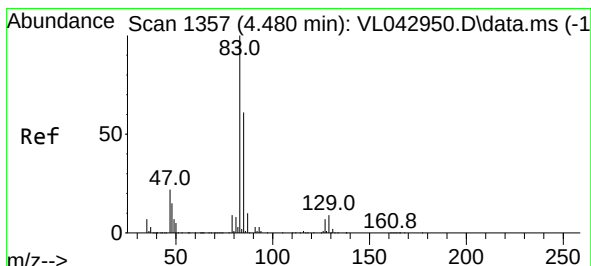
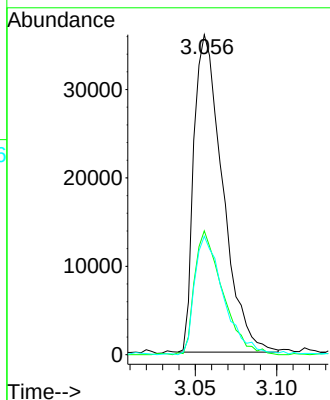
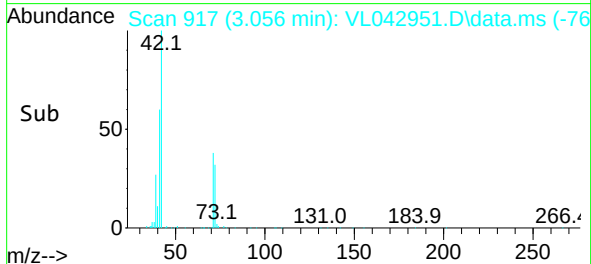
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



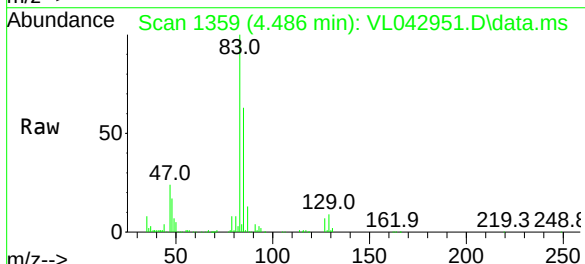
Tgt Ion: 42 Resp: 43962
Ion Ratio Lower Upper
42 100
72 38.5 30.0 45.0
71 37.4 28.8 43.2

Manual Integrations
APPROVED

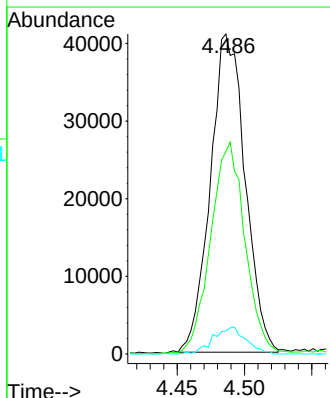
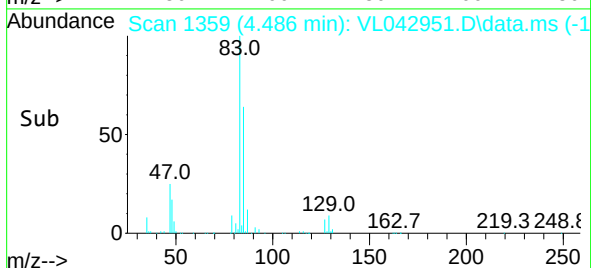
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

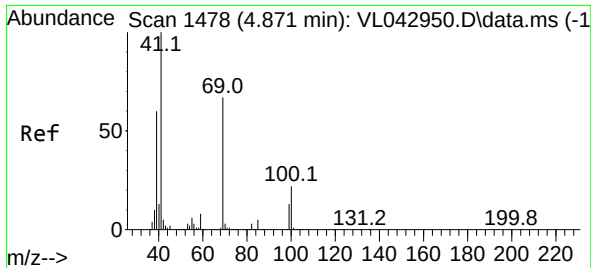


#42
Bromodichloromethane
Concen: 2.042 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14



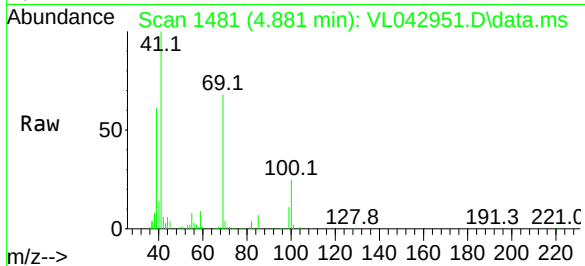
Tgt Ion: 83 Resp: 73675
Ion Ratio Lower Upper
83 100
85 63.2 49.0 73.6
127 7.2 5.3 7.9





#43
Methyl Methacrylate
Concen: 2.077 ppbv
RT: 4.881 min Scan# 1478
Delta R.T. 0.010 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

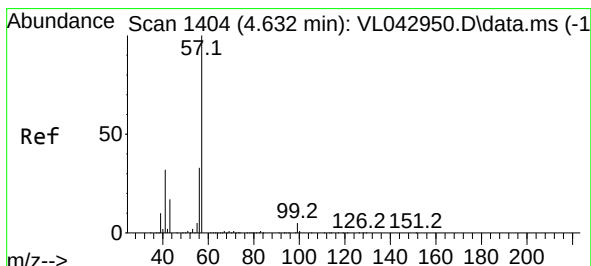
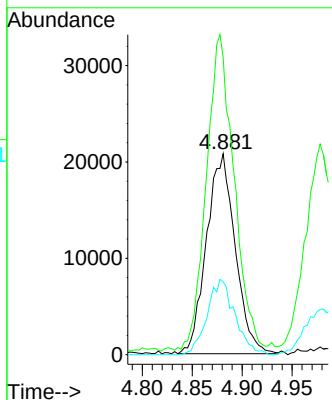
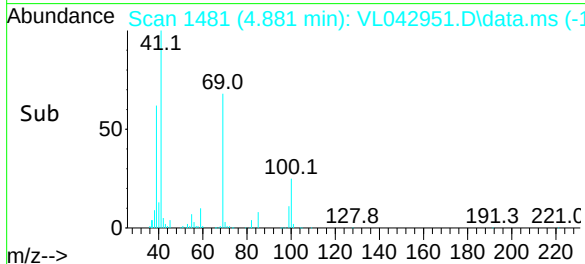
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



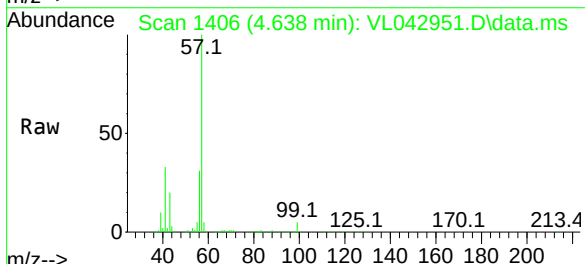
Tgt Ion: 69 Resp: 4152
Ion Ratio Lower Upper
69 100
41 153.8 124.5 186.7
100 36.3 29.0 43.6

Manual Integrations
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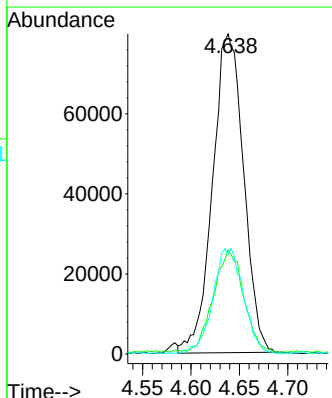
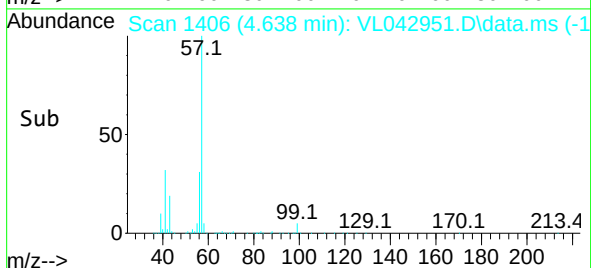
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

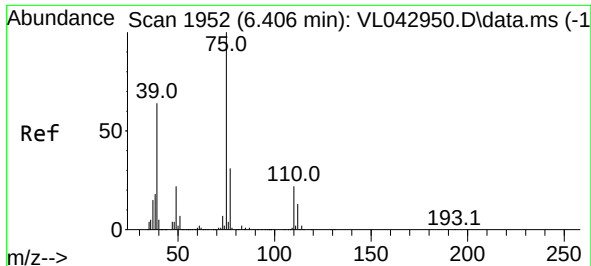


#44
2,2,4-Trimethylpentane
Concen: 2.083 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14



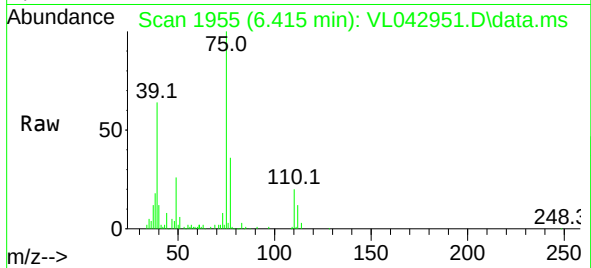
Tgt Ion: 57 Resp: 177242
Ion Ratio Lower Upper
57 100
41 32.9 25.5 38.3
56 32.5 25.8 38.8





#45
t-1,3-Dichloropropene
Concen: 2.055 ppbv
RT: 6.415 min Scan# 1952
Delta R.T. 0.010 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

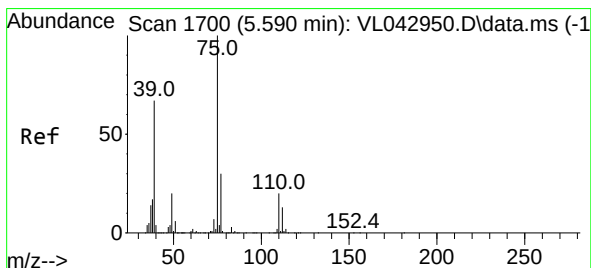
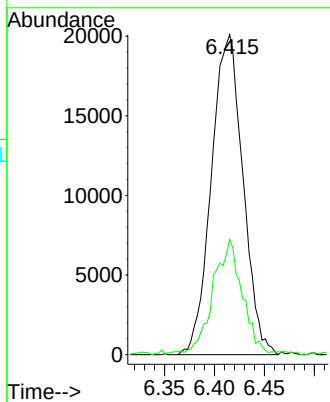
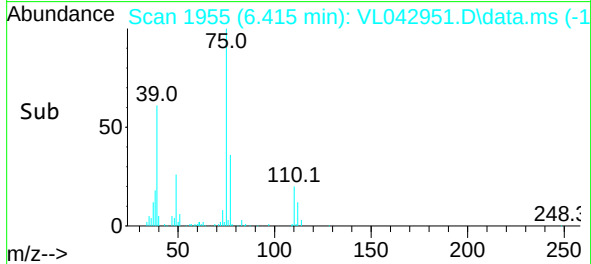
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



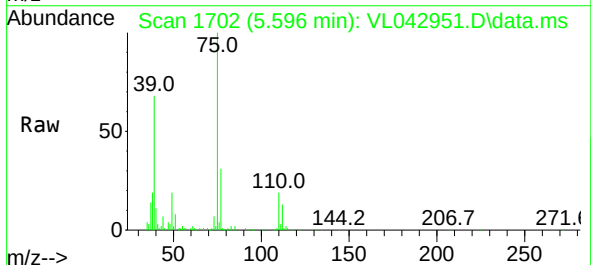
Tgt Ion: 75 Resp: 4417
Ion Ratio Lower Upper
75 100
77 36.0 25.0 37.4

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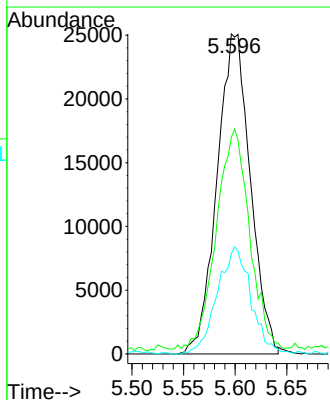
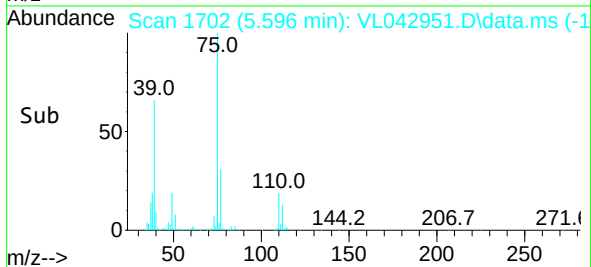
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

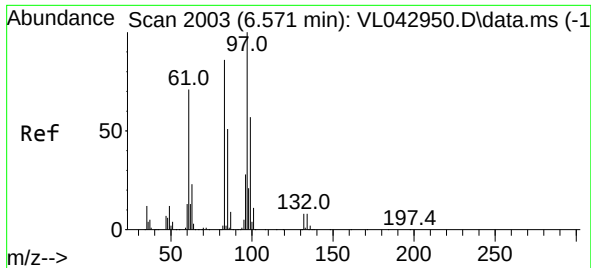


#46
cis-1,3-Dichloropropene
Concen: 2.057 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14



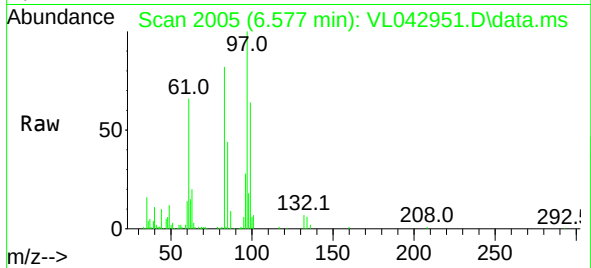
Tgt Ion: 75 Resp: 56335
Ion Ratio Lower Upper
75 100
39 64.9 53.8 80.6
77 31.4 23.6 35.4





#47
1,1,2-Trichloroethane
Concen: 2.050 ppbv m
RT: 6.577 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

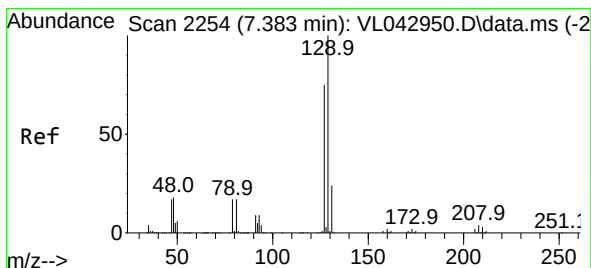
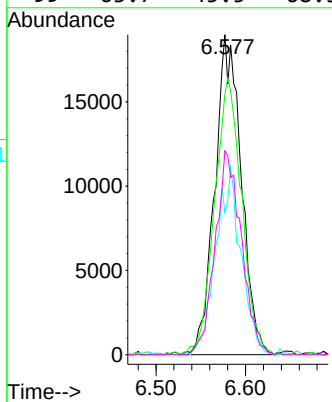
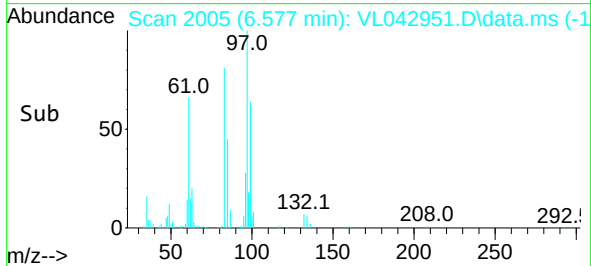
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 97 Resp: 3896
Ion Ratio Lower Upper
97 100
83 81.6 68.7 103.1
85 44.4 40.6 60.8
99 63.7 45.5 68.3

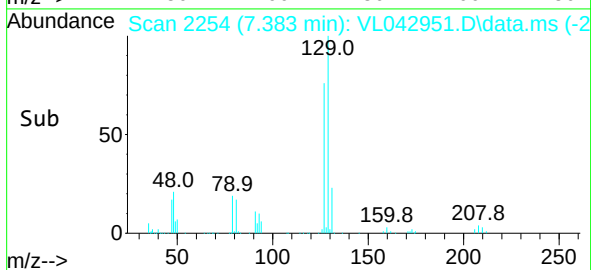
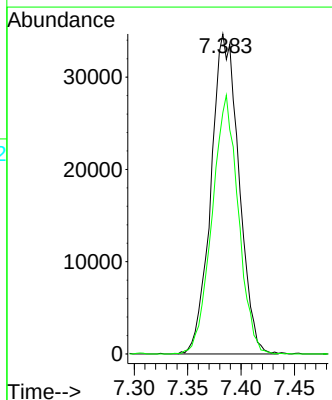
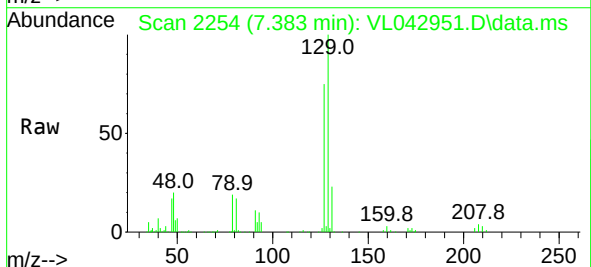
Manual Integrations
APPROVED

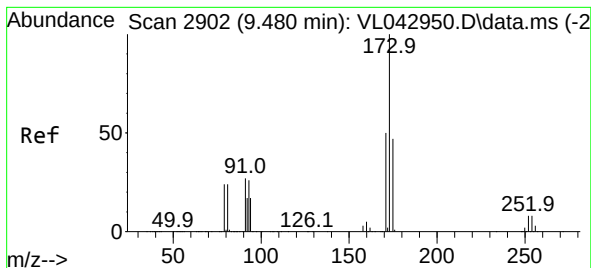
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#48
Dibromochloromethane
Concen: 2.072 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. -0.000 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion:129 Resp: 62968
Ion Ratio Lower Upper
129 100
127 76.1 39.1 117.2





#49

Bromoform

Concen: 2.119 ppbv

RT: 9.480 min Scan# 2902

Delta R.T. -0.000 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

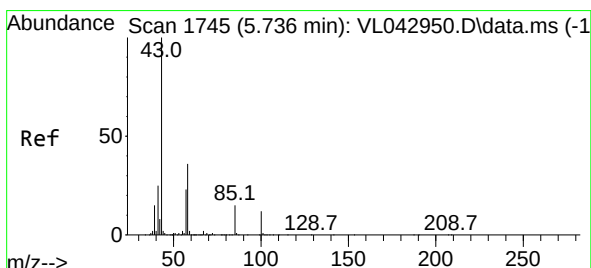
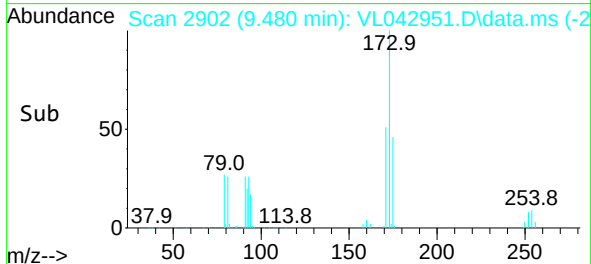
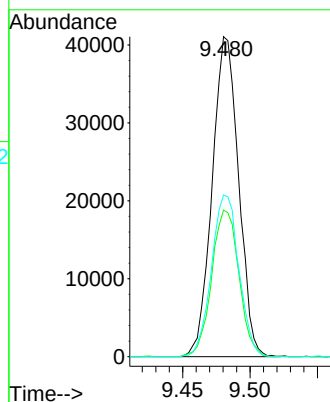
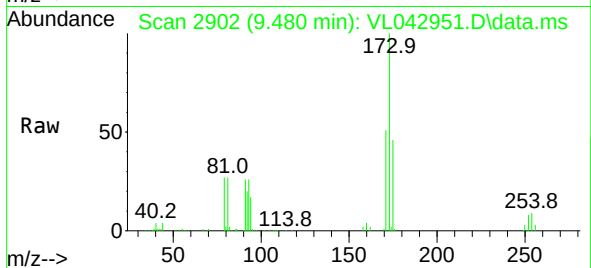
VSTDICC002

Tgt Ion:	173	Resp:	5602
Ion Ratio	Lower	Upper	
173	100		
175	47.3	37.9	56.9
171	52.1	41.1	61.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#50

4-Methyl-2-Pentanone

Concen: 2.098 ppbv m

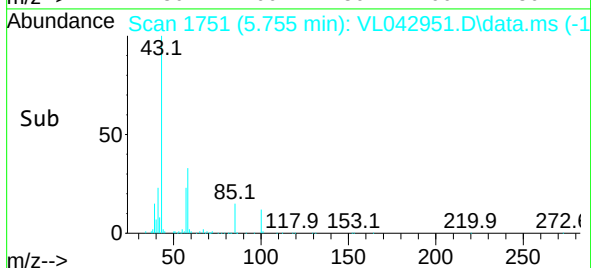
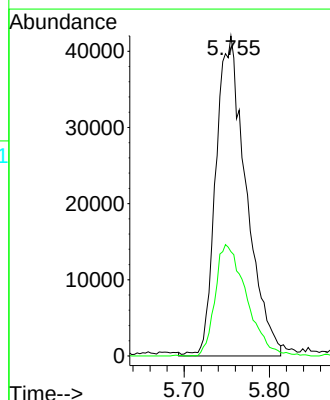
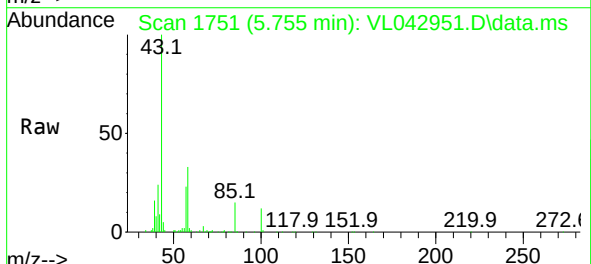
RT: 5.755 min Scan# 1751

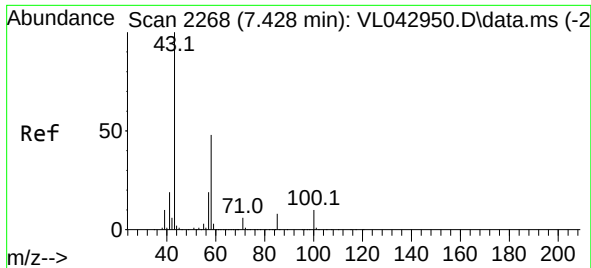
Delta R.T. 0.019 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

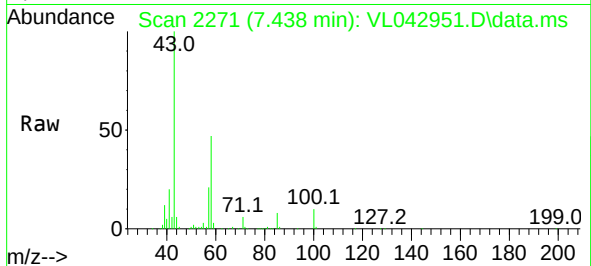
Tgt Ion:	43	Resp:	103605
Ion Ratio	Lower	Upper	
43	100		
58	36.1	28.4	42.6





#51
2-Hexanone
Concen: 2.053 ppbv
RT: 7.438 min Scan# 2114
Delta R.T. 0.010 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

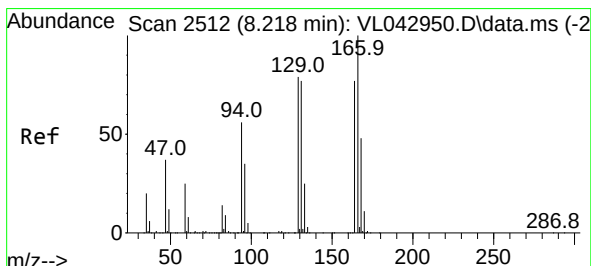
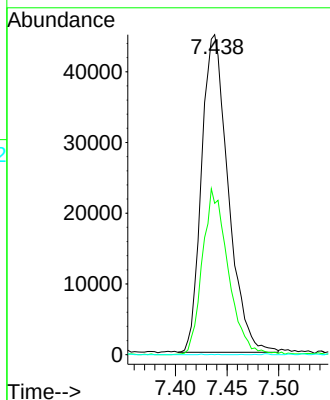
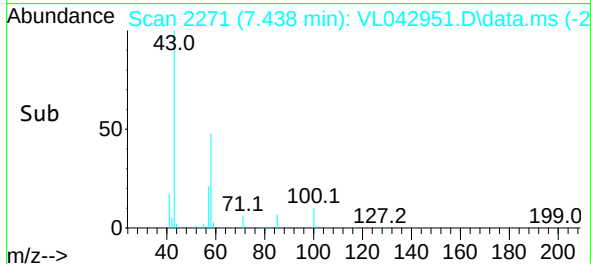
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 43 Resp: 80620
Ion Ratio Lower Upper
43 100
58 50.6 39.7 59.5
98 0.1 0.1 0.1

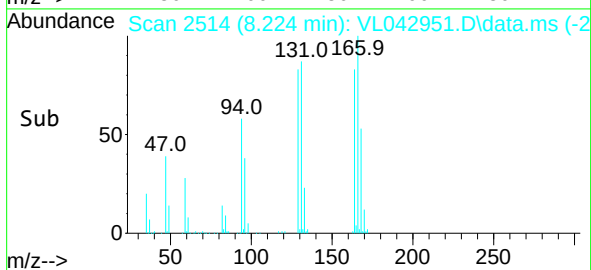
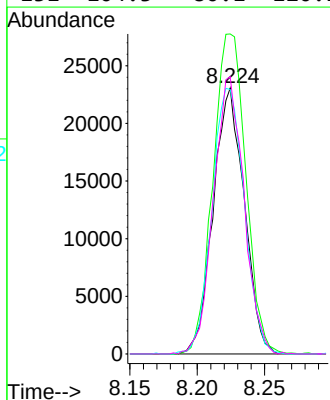
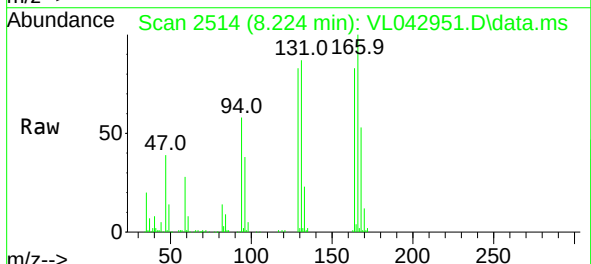
Manual Integrations
APPROVED

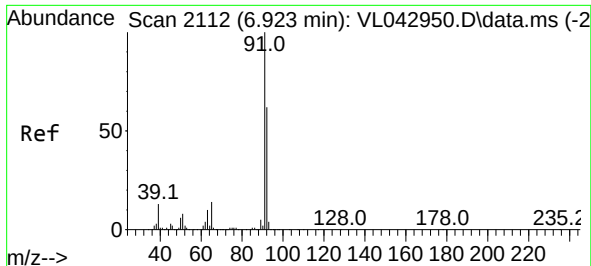
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#52
Tetrachloroethene
Concen: 1.934 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

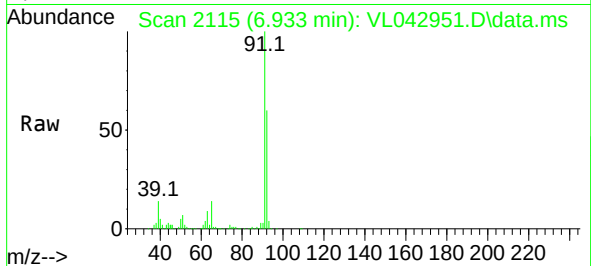
Tgt Ion:164 Resp: 36853
Ion Ratio Lower Upper
164 100
166 120.4 103.5 155.3
129 98.8 82.2 123.4
131 104.3 80.1 120.1





#53
Toluene
Concen: 2.081 ppbv
RT: 6.933 min Scan# 2112
Delta R.T. 0.010 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

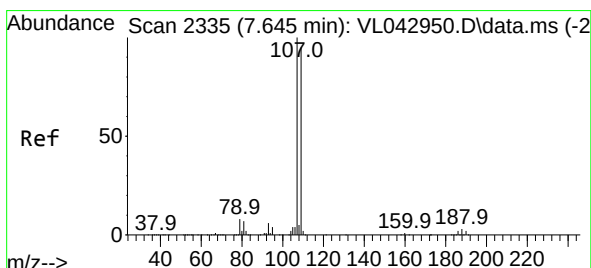
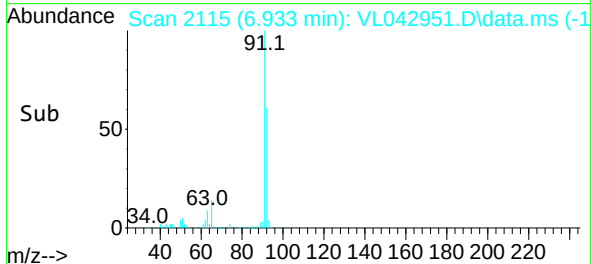
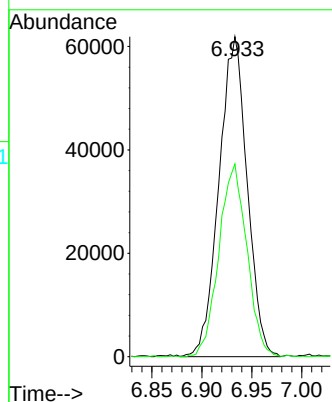
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 91 Resp: 121268
Ion Ratio Lower Upper
91 100
92 59.8 48.2 72.2

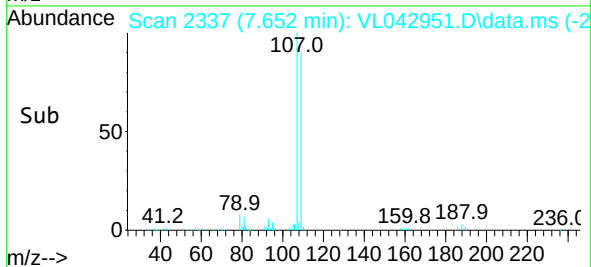
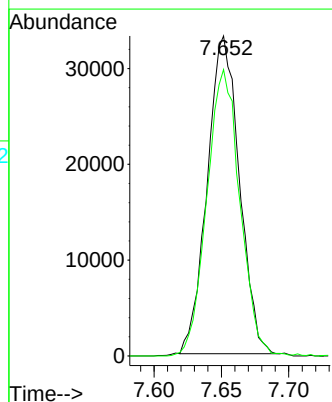
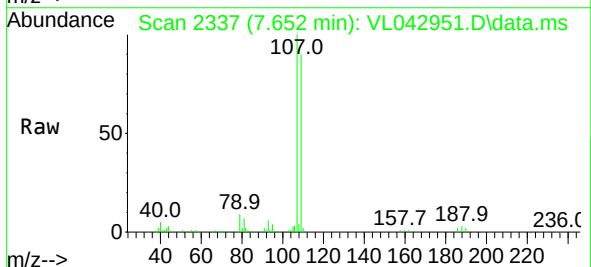
Manual Integrations
APPROVED

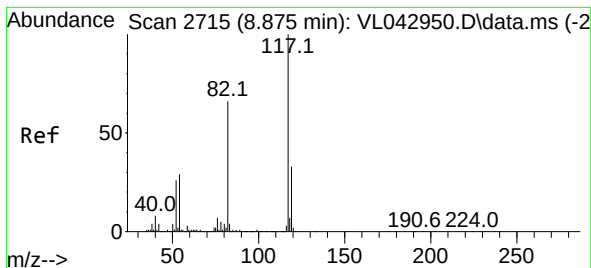
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#54
1,2-Dibromoethane
Concen: 2.058 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion:107 Resp: 55022
Ion Ratio Lower Upper
107 100
109 89.3 75.8 113.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2715

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

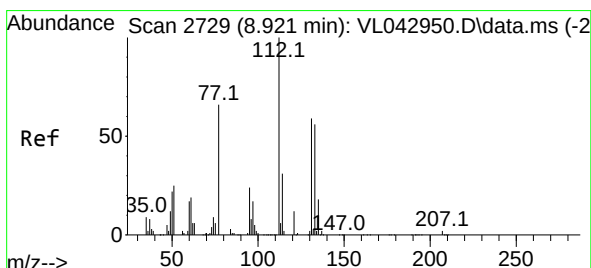
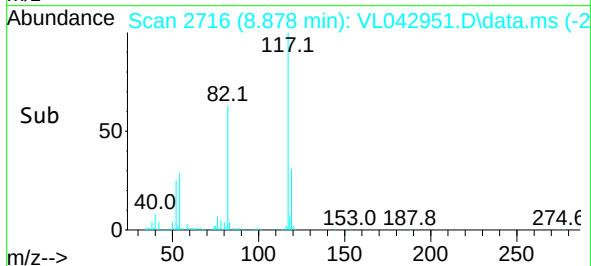
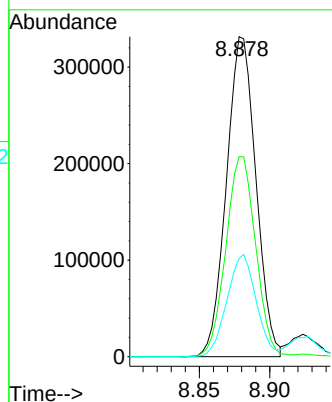
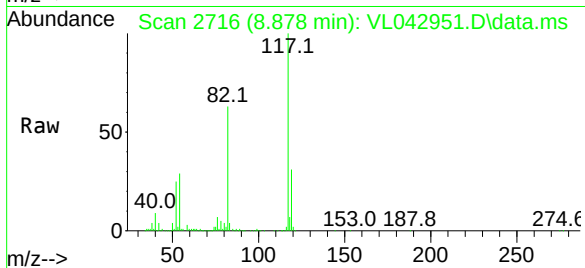
VSTDICC002

Tgt Ion:	117	Resp:	48382
Ion Ratio	Lower	Upper	
117	100		
82	63.6	52.8	79.2
119	31.8	26.5	39.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 2.112 ppbv

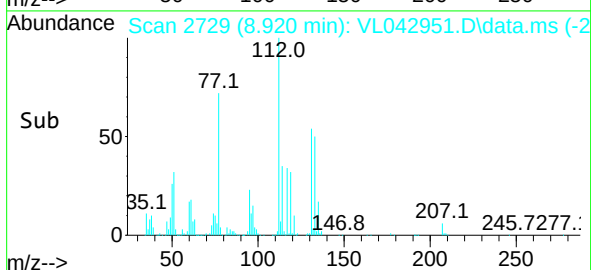
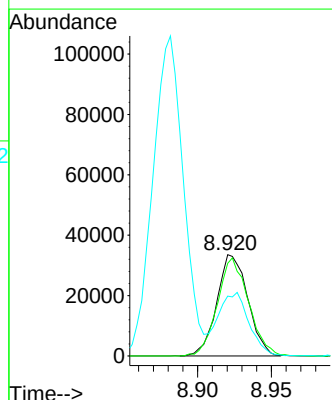
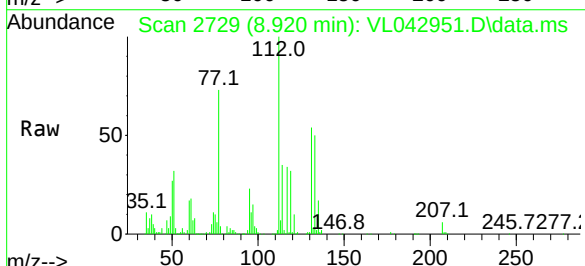
RT: 8.920 min Scan# 2729

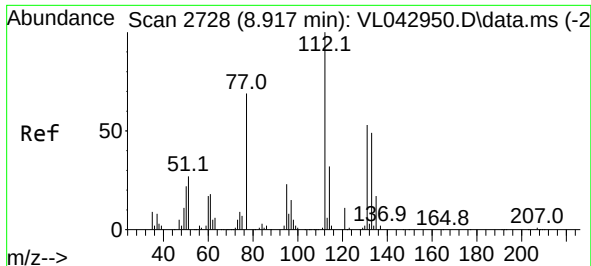
Delta R.T. -0.000 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

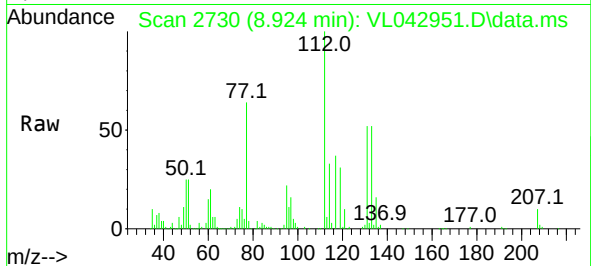
Tgt Ion:	131	Resp:	48901
Ion Ratio	Lower	Upper	
131	100		
133	97.7	76.6	114.8
119	61.4	49.9	74.9





#57
Chlorobenzene
Concen: 2.068 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

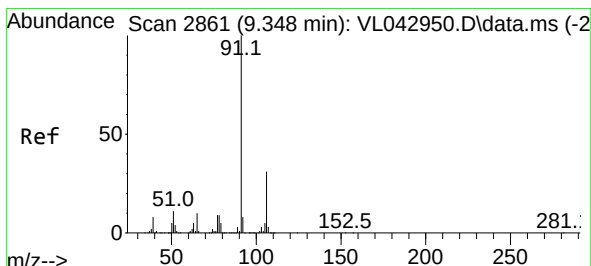
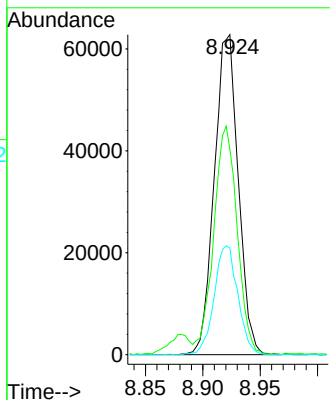
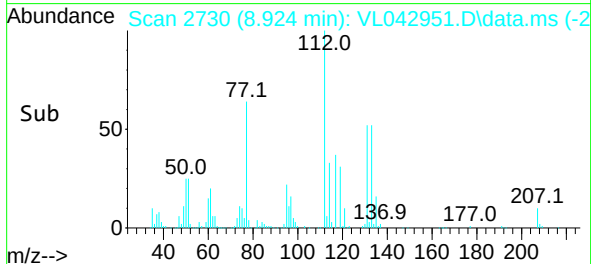
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



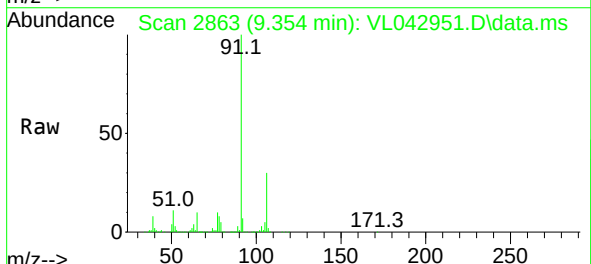
Tgt Ion: 112 Resp: 91325
Ion Ratio Lower Upper
112 100
77 63.9 55.7 83.5
114 33.4 28.6 35.0

Manual Integrations
APPROVED

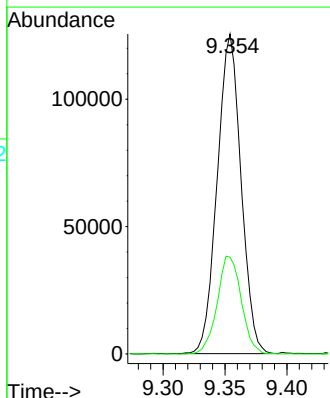
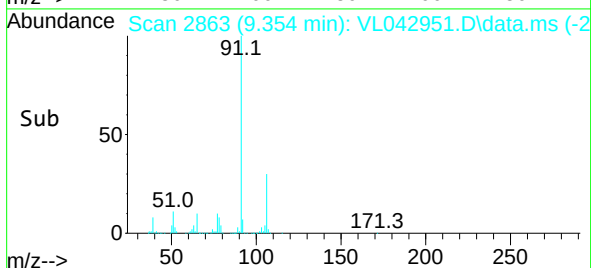
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

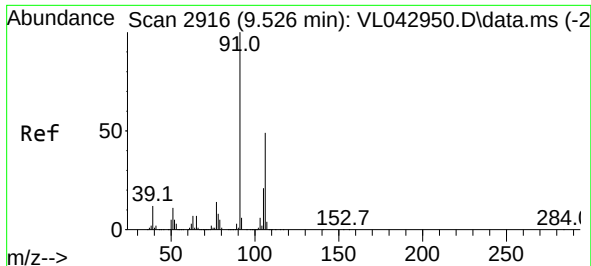


#58
Ethyl Benzene
Concen: 2.115 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14



Tgt Ion: 91 Resp: 168063
Ion Ratio Lower Upper
91 100
106 30.3 24.6 37.0





#59

m/p-Xylene

Concen: 4.202 ppbv m

RT: 9.532 min Scan# 2916

Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 26336

Ion Ratio Lower Upper

91 100

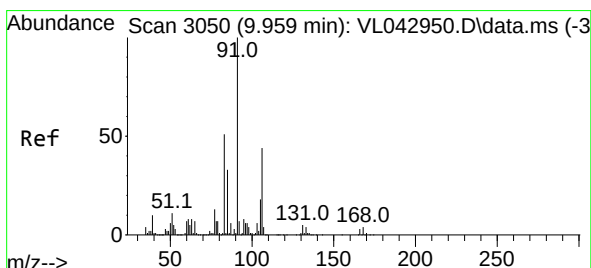
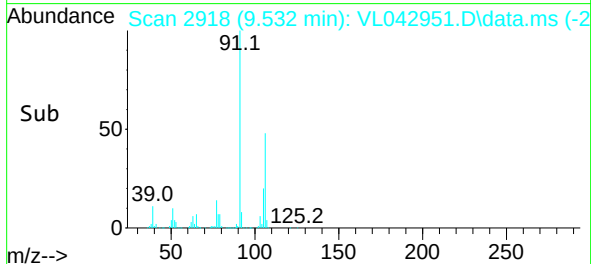
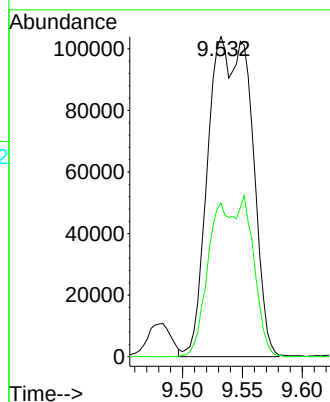
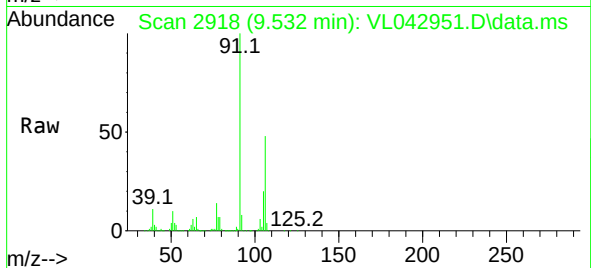
106 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#60

o-Xylene

Concen: 2.101 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.003 min

Lab File: VL042951.D

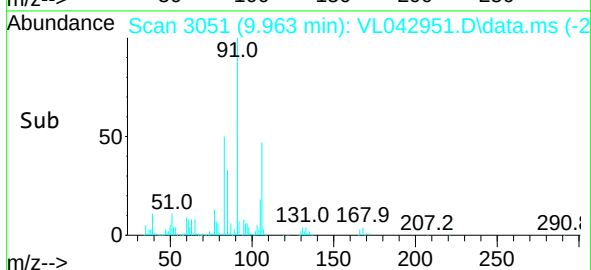
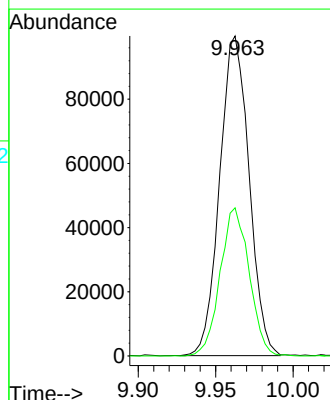
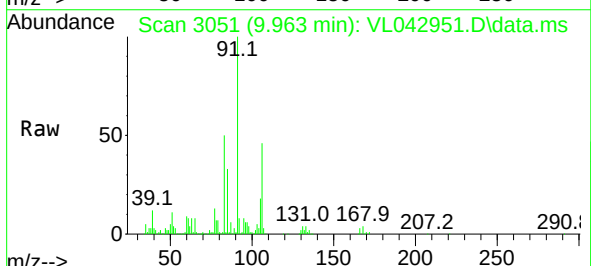
Acq: 22 Sep 2025 10:14

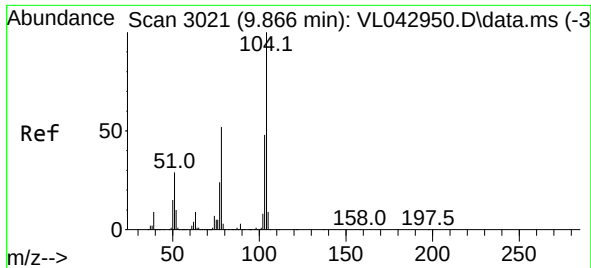
Tgt Ion: 91 Resp: 131507

Ion Ratio Lower Upper

91 100

106 45.8 22.4 67.0





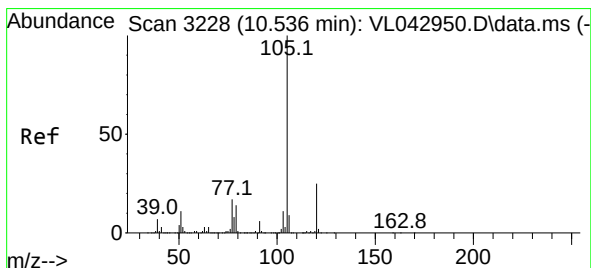
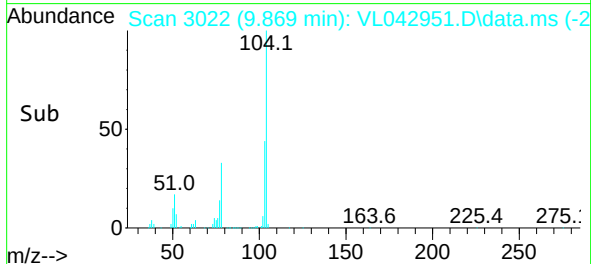
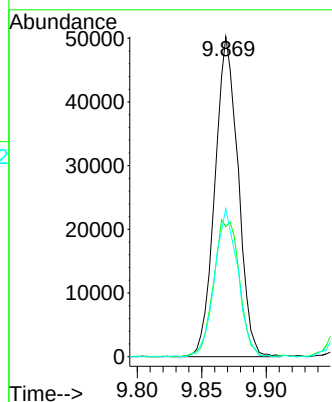
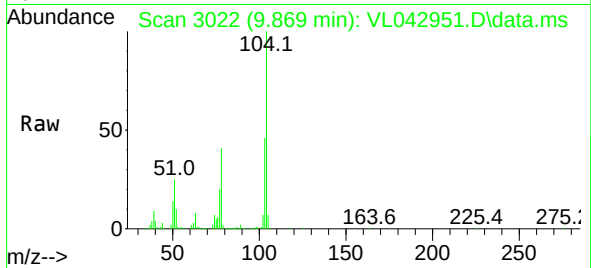
#61
Styrene
Concen: 2.119 ppbv
RT: 9.869 min Scan# 3021
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:104 Resp: 62748
Ion Ratio Lower Upper
104 100
78 47.7 39.9 59.9
103 46.3 36.9 55.3

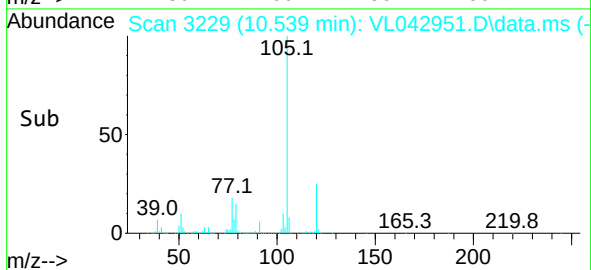
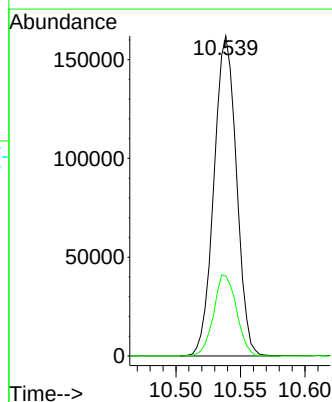
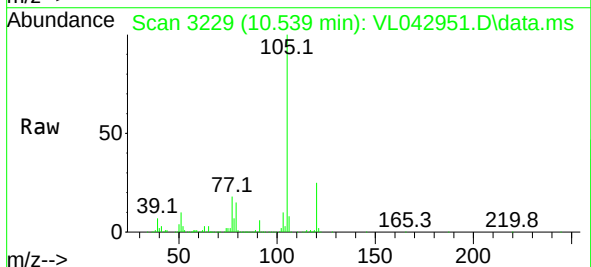
Manual Integrations
APPROVED

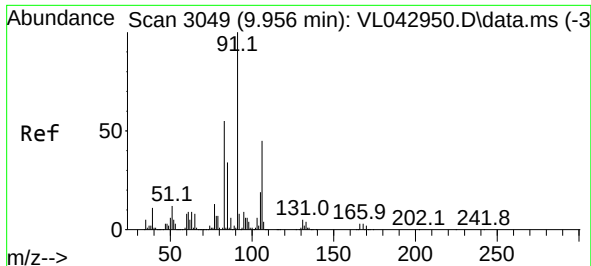
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#62
Isopropylbenzene
Concen: 2.103 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion:105 Resp: 196198
Ion Ratio Lower Upper
105 100
120 25.7 20.6 30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 1.978 ppbv

RT: 9.963 min Scan# 3049

Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

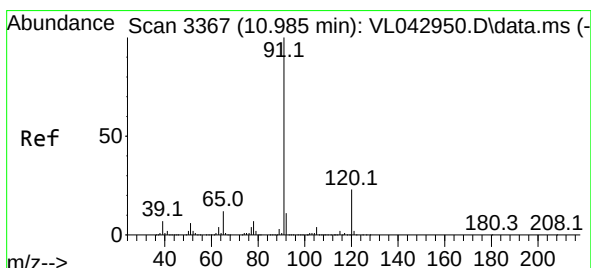
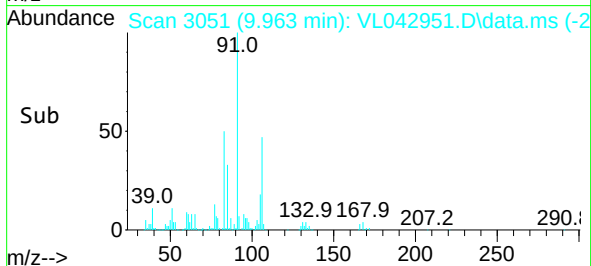
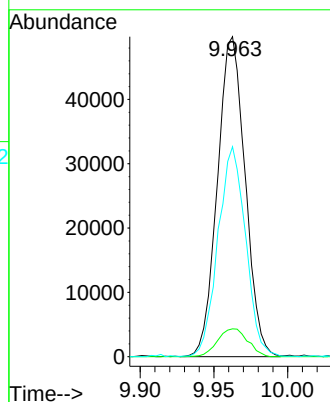
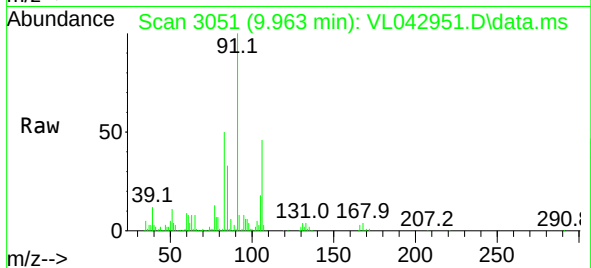
VSTDICC002

Tgt Ion: 83	Resp: 65089
Ion Ratio	Lower Upper
83 100	
131 9.5	4.8 14.4
85 65.9	32.2 96.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#64

n-propylbenzene

Concen: 2.074 ppbv

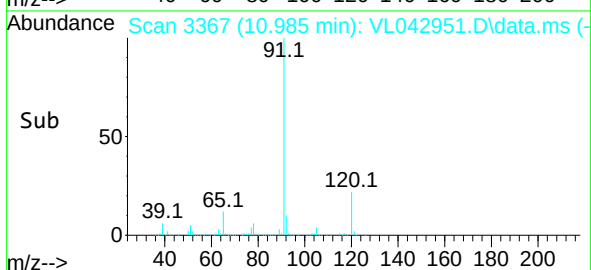
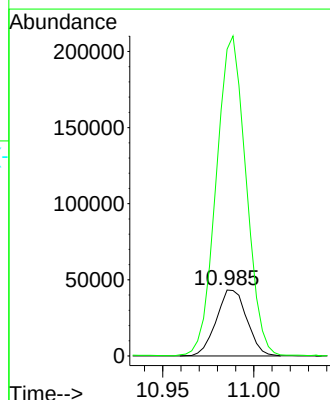
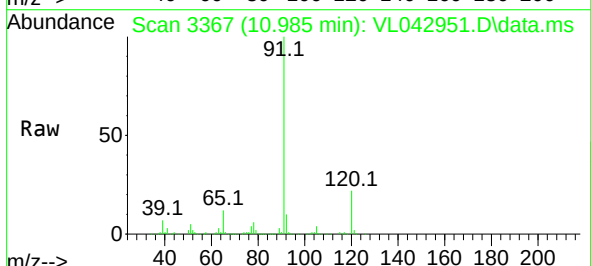
RT: 10.985 min Scan# 3367

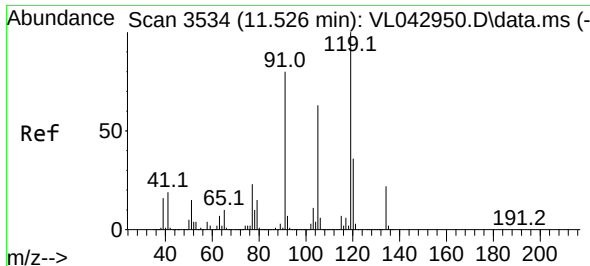
Delta R.T. -0.000 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

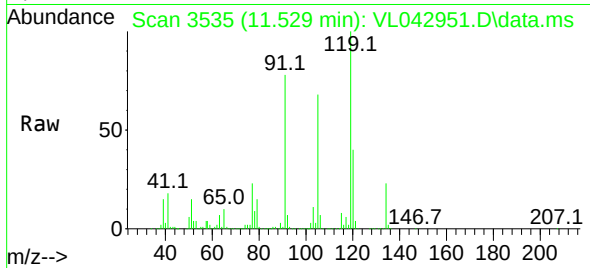
Tgt Ion:120	Resp: 50569
Ion Ratio	Lower Upper
120 100	
91 474.1	364.9 547.3





#65
tert-Butylbenzene
Concen: 2.147 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

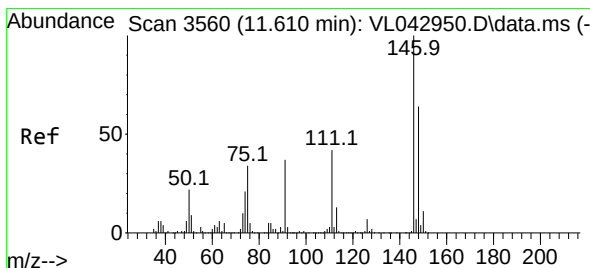
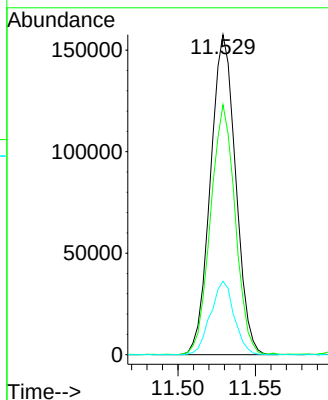
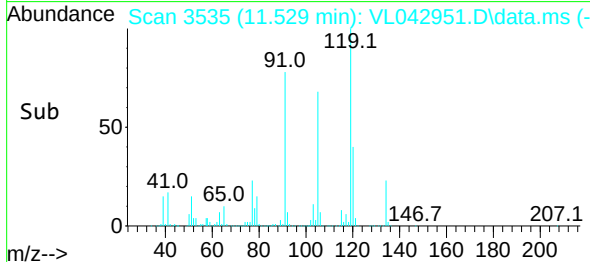
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



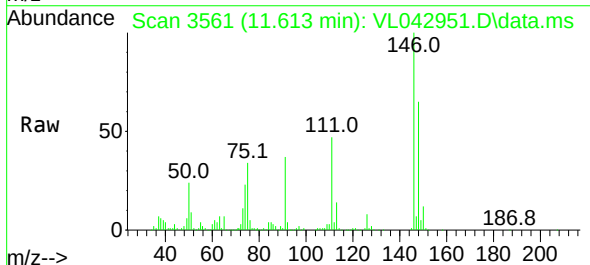
Tgt Ion:119 Resp: 178218
Ion Ratio Lower Upper
119 100
91 76.4 63.1 94.7
134 21.5 17.0 25.6

Manual Integrations
APPROVED

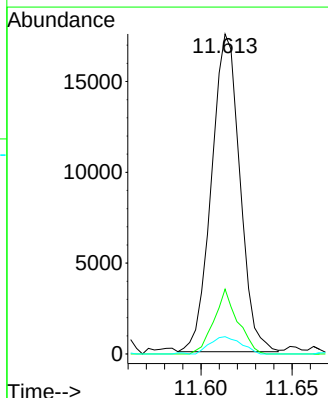
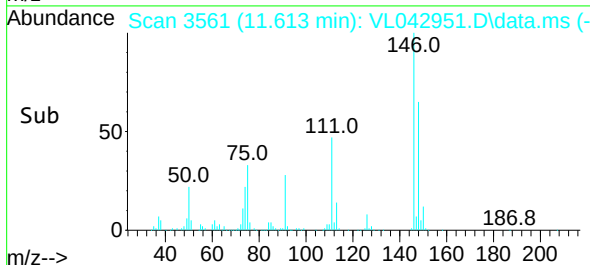
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

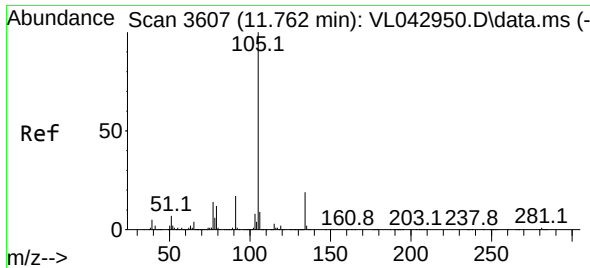


#66
Benzyl Chloride
Concen: 2.181 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14



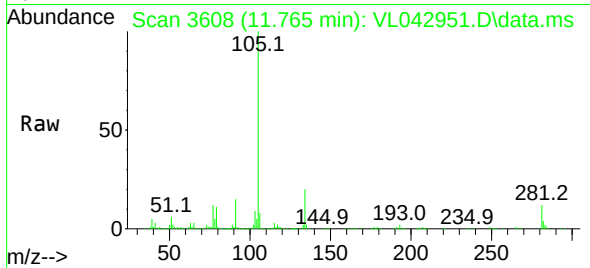
Tgt Ion: 91 Resp: 18992
Ion Ratio Lower Upper
91 100
126 17.1 14.6 21.8
128 6.0 5.0 7.4





#67
 sec-Butylbenzene
 Concen: 2.158 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

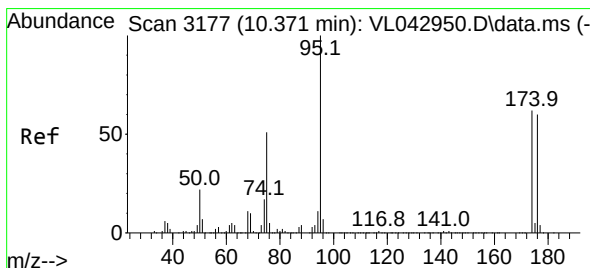
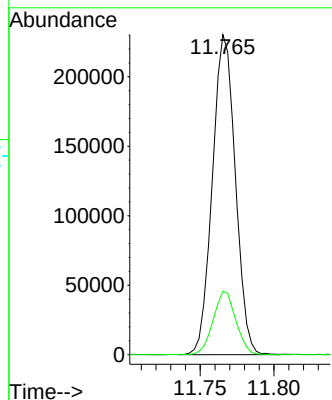
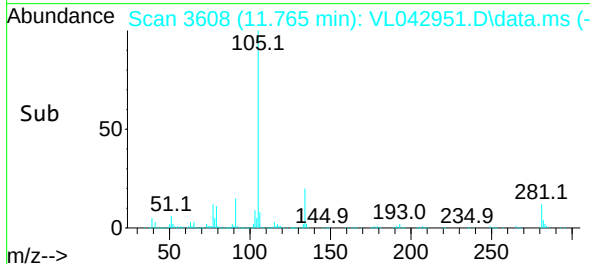
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



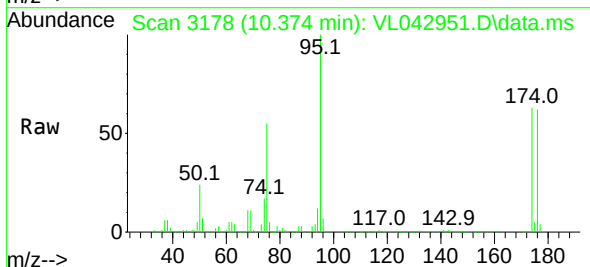
Tgt Ion:105 Resp: 249510
 Ion Ratio Lower Upper
 105 100
 134 19.6 15.7 23.5

Manual Integrations
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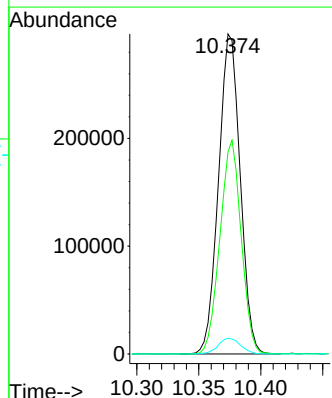
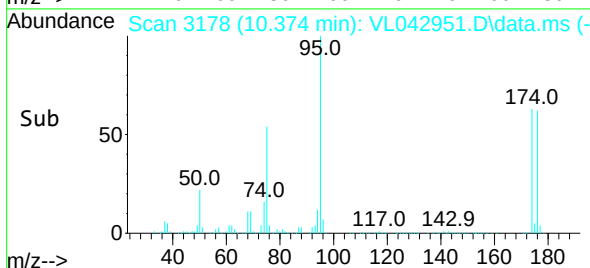
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

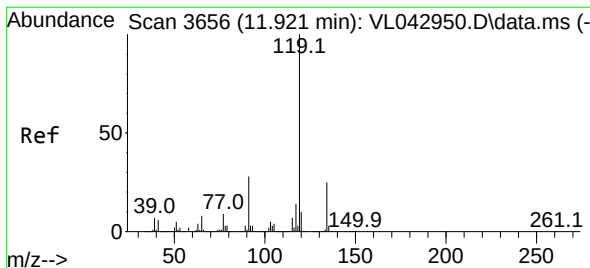


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.012 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14



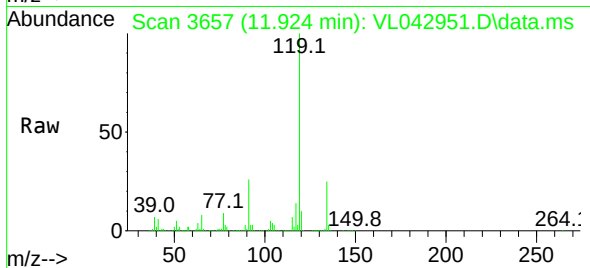
Tgt Ion: 95 Resp: 361586
 Ion Ratio Lower Upper
 95 100
 174 65.6 51.4 77.2
 175 5.1 4.0 6.0





#69
p-Isopropyltoluene
Concen: 2.158 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

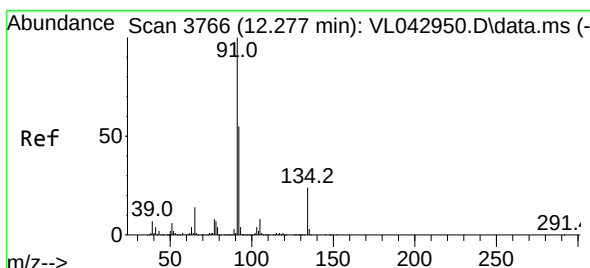
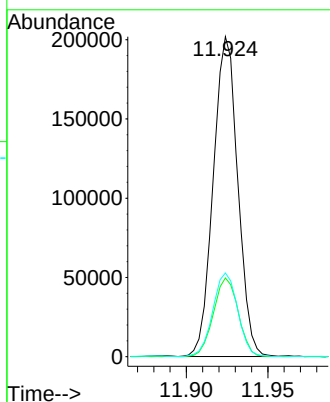
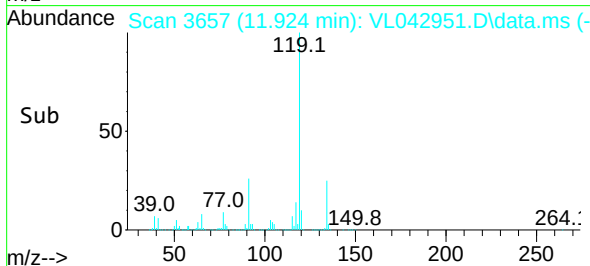
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



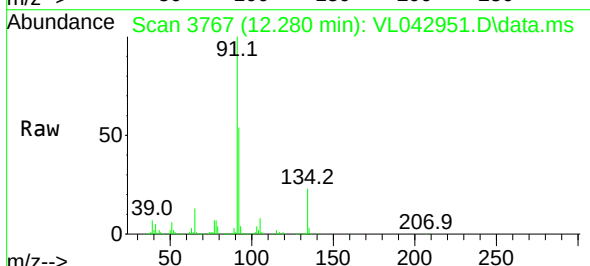
Tgt Ion: 119 Resp: 210808
Ion Ratio Lower Upper
119 100
134 25.0 21.0 31.4
91 26.4 22.3 33.5

Manual Integrations
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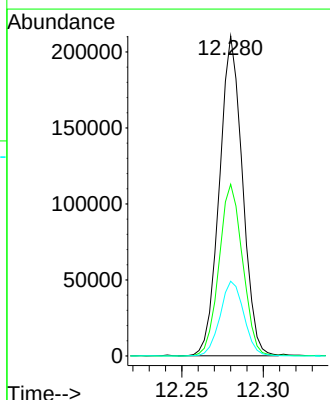
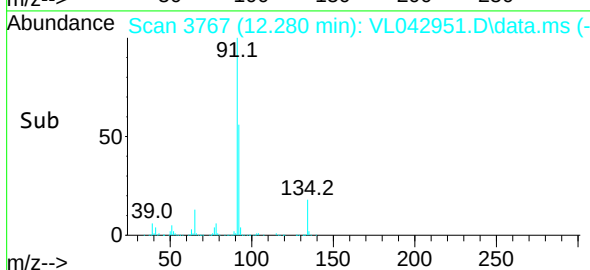
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

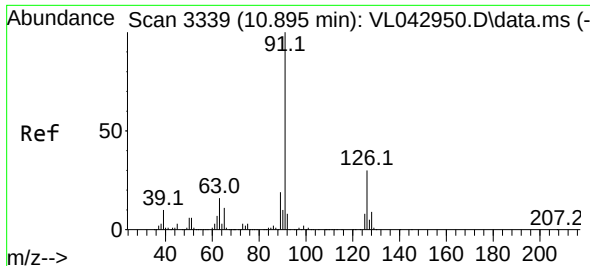


#70
n-Butylbenzene
Concen: 2.167 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14



Tgt Ion: 91 Resp: 206691
Ion Ratio Lower Upper
91 100
92 55.0 44.0 66.0
134 24.1 19.4 29.2





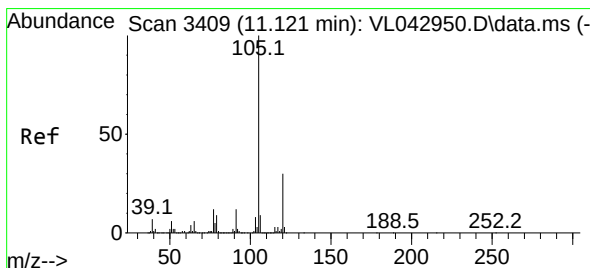
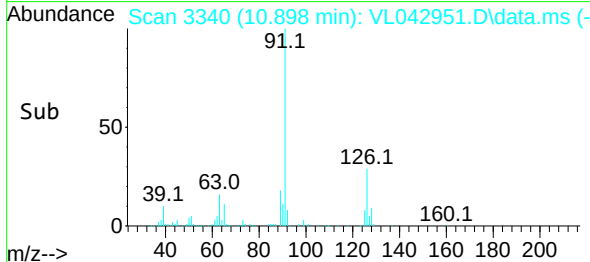
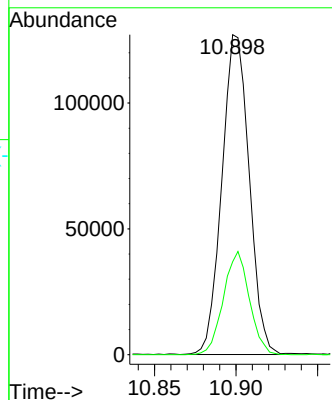
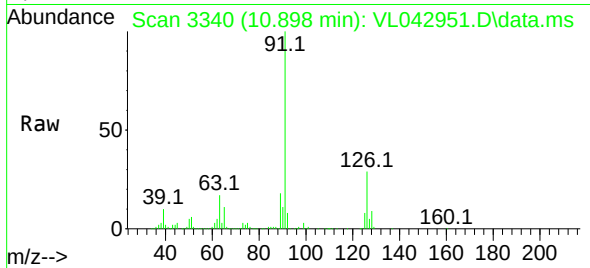
#71
2-Chlorotoluene
Concen: 2.099 ppbv
RT: 10.898 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 14790
Ion Ratio Lower Upper
91 100
126 30.7 12.3 49.3

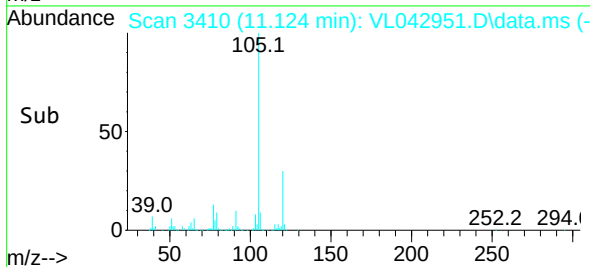
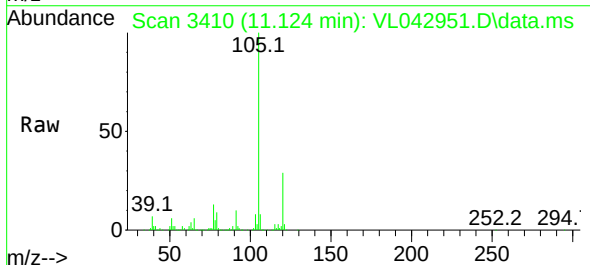
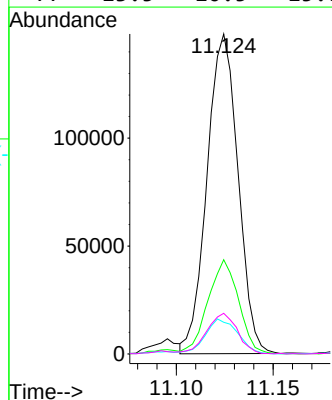
Manual Integrations
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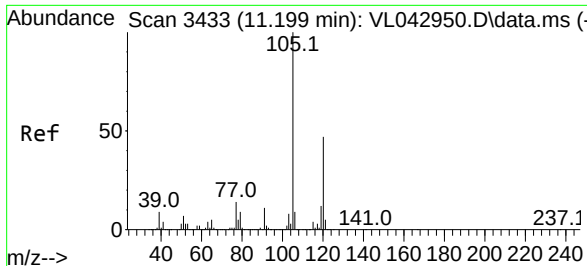
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#72
4-Ethyltoluene
Concen: 2.102 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

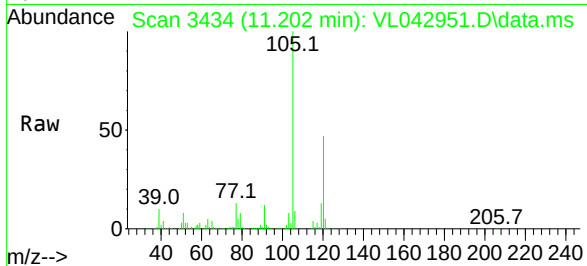
Tgt Ion:105 Resp: 164770
Ion Ratio Lower Upper
105 100
120 30.4 24.2 36.2
91 12.2 10.0 15.0
77 13.5 10.5 15.7





#73
1,3,5-Trimethylbenzene
Concen: 2.128 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

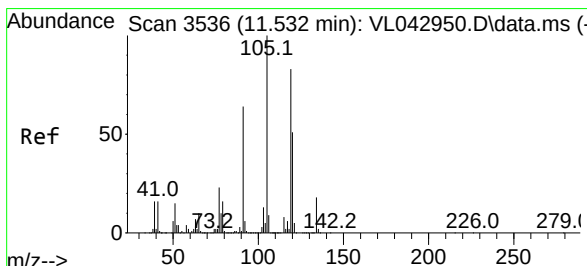
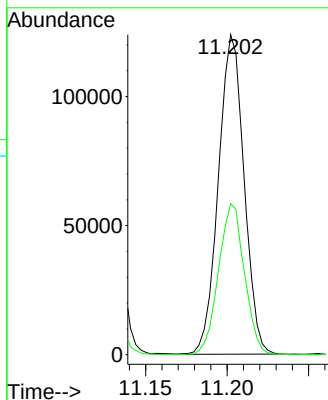
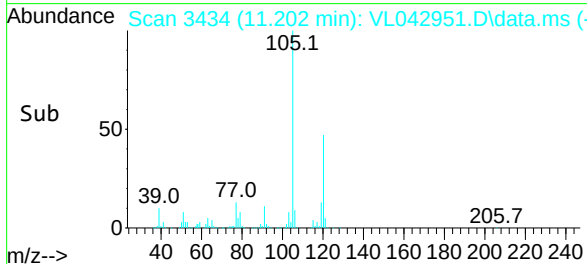
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



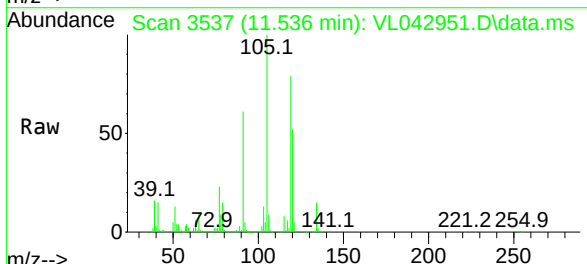
Tgt Ion:105 Resp: 135344
Ion Ratio Lower Upper
105 100
120 47.3 38.0 57.0

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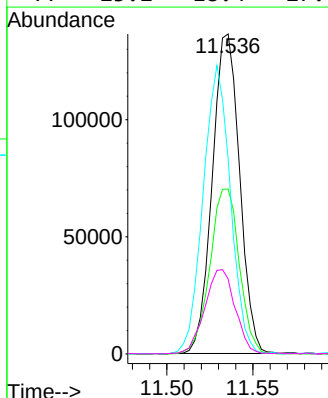
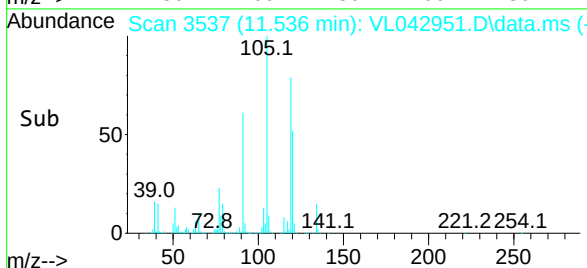
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

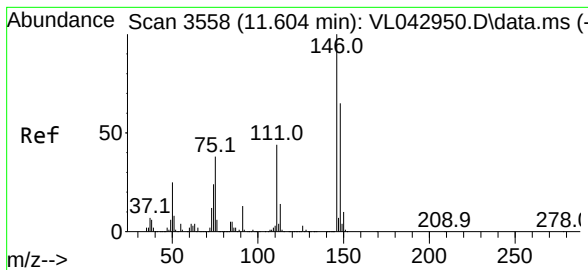


#74
1,2,4-Trimethylbenzene
Concen: 2.147 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14



Tgt Ion:105 Resp: 150772
Ion Ratio Lower Upper
105 100
120 51.6 40.9 61.3
91 61.0 51.2 76.8
77 23.2 18.4 27.6





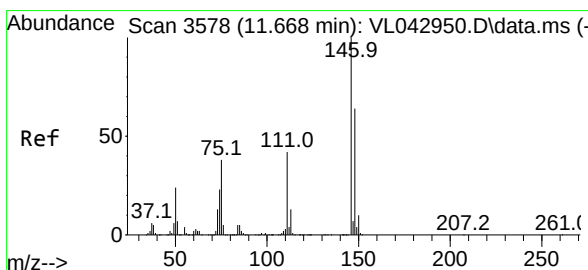
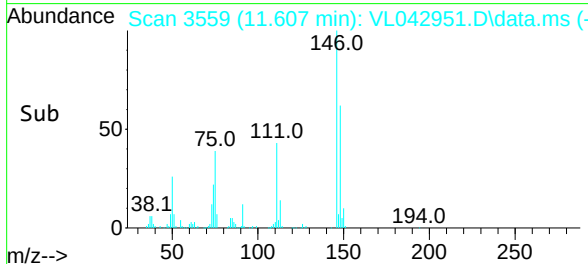
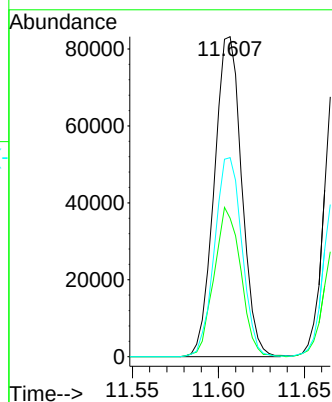
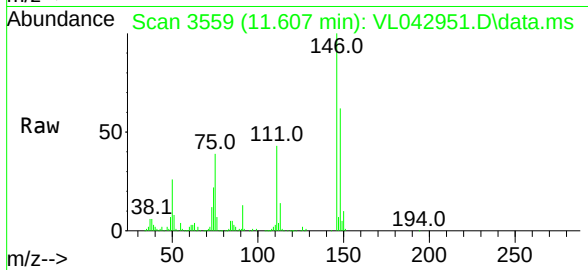
#75
1,3-Dichlorobenzene
Concen: 2.124 ppbv
RT: 11.607 min Scan# 3558
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:146 Resp: 9248
Ion Ratio Lower Upper
146 100
111 45.3 22.3 66.9
148 62.1 31.9 95.5

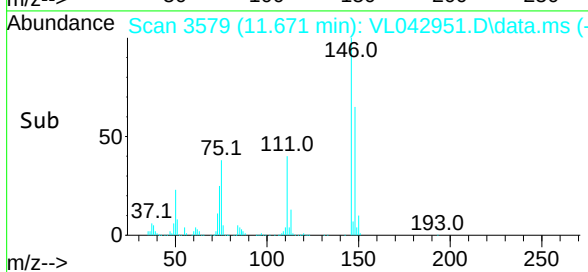
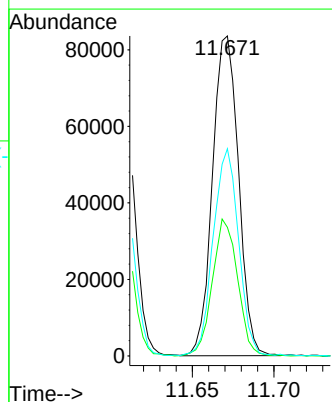
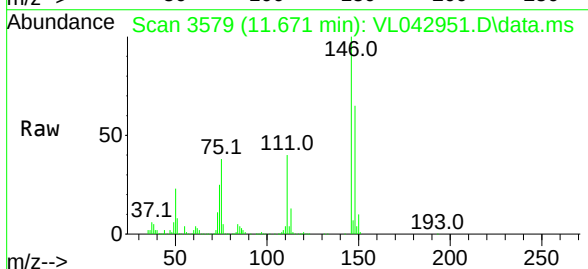
Manual Integrations
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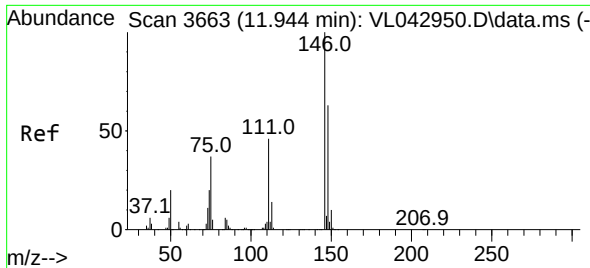
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#76
1,4-Dichlorobenzene
Concen: 2.145 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

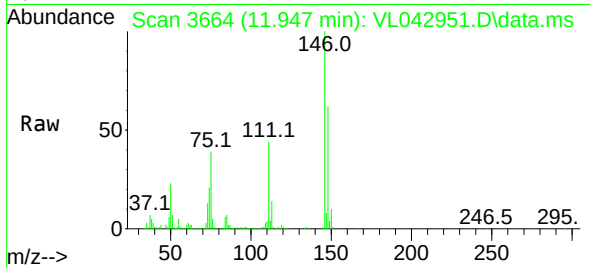
Tgt Ion:146 Resp: 92794
Ion Ratio Lower Upper
146 100
111 41.6 21.5 64.5
148 63.6 31.9 95.5





#77
1,2-Dichlorobenzene
Concen: 2.144 ppbv
RT: 11.947 min Scan# 3663
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

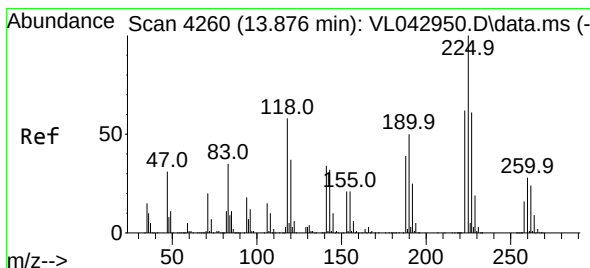
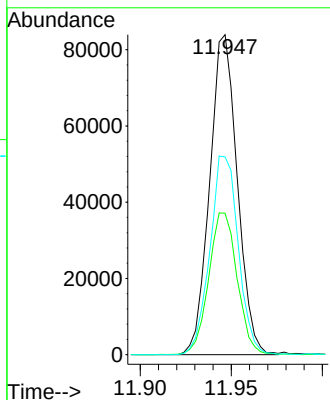
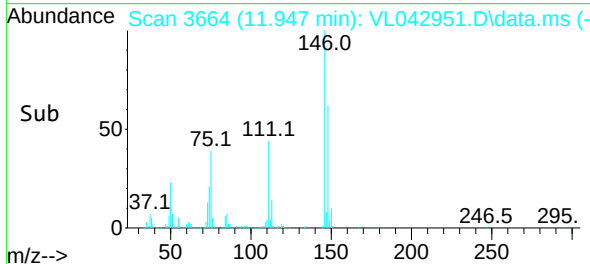
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



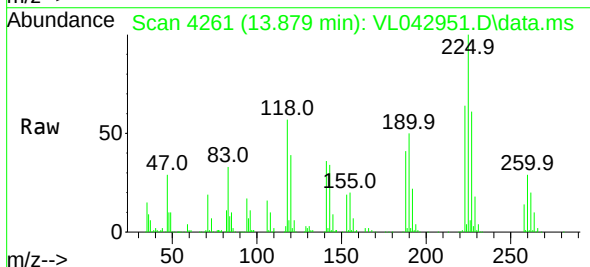
Tgt Ion:146 Resp: 88825
Ion Ratio Lower Upper
146 100
111 45.8 23.1 69.3
148 64.0 32.0 96.0

Manual Integrations
APPROVED

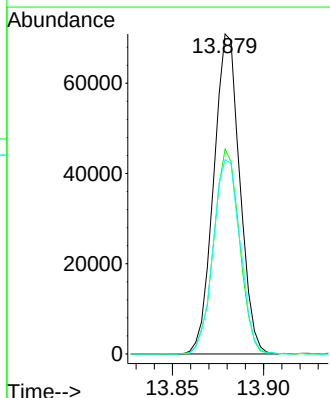
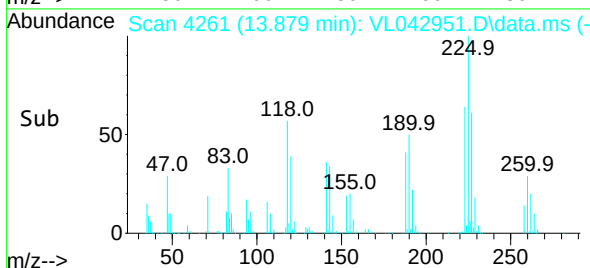
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

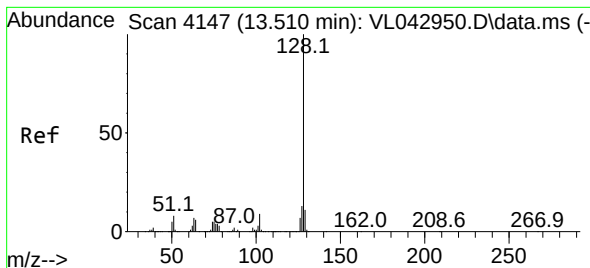


#78
Hexachloro-1,3-Butadiene
Concen: 2.175 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14



Tgt Ion:225 Resp: 70481
Ion Ratio Lower Upper
225 100
223 63.3 50.1 75.1
227 63.3 50.4 75.6





#79

Naphthalene

Concen: 2.297 ppbv

RT: 13.510 min Scan# 4147

Delta R.T. -0.000 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

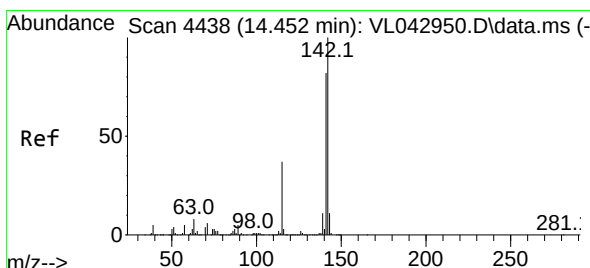
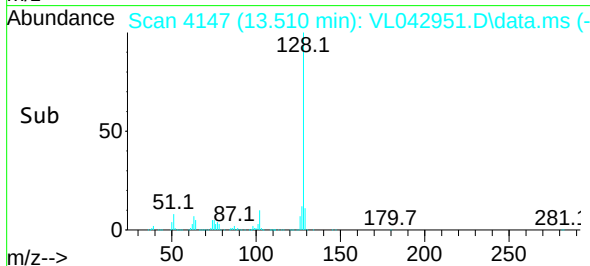
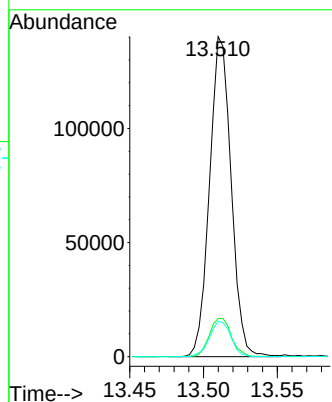
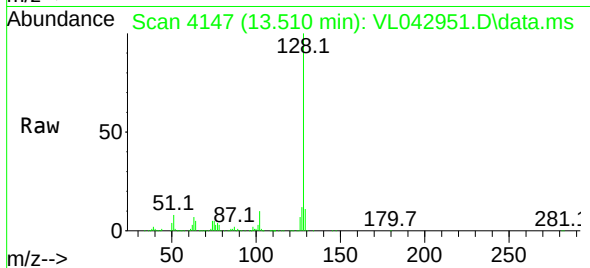
VSTDIC002

Tgt Ion:	128	Resp:	14265
Ion Ratio	Lower	Upper	
128	100		
127	12.0	10.6	15.8
129	11.0	9.0	13.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#80

Naphthalene,2-methyl-

Concen: 2.157 ppbv

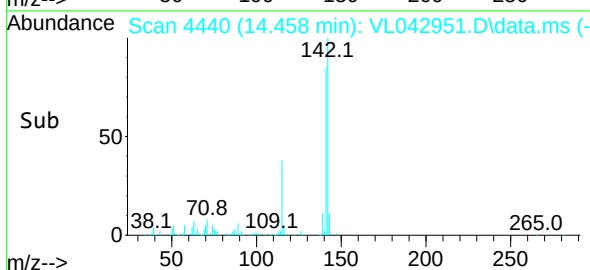
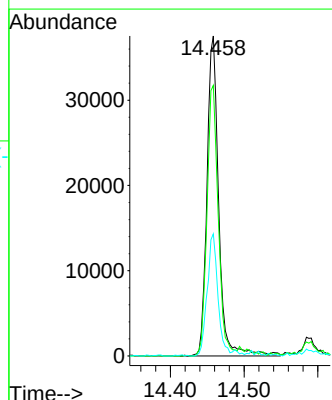
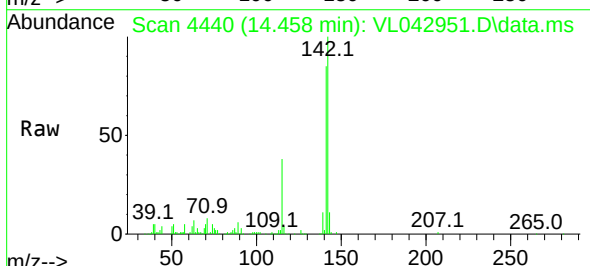
RT: 14.458 min Scan# 4440

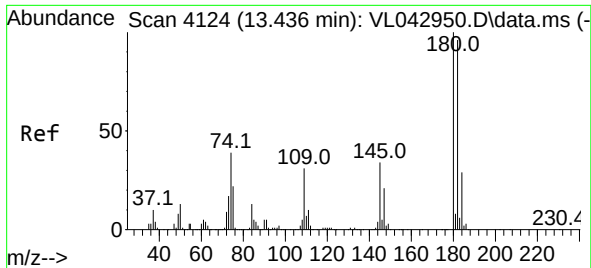
Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

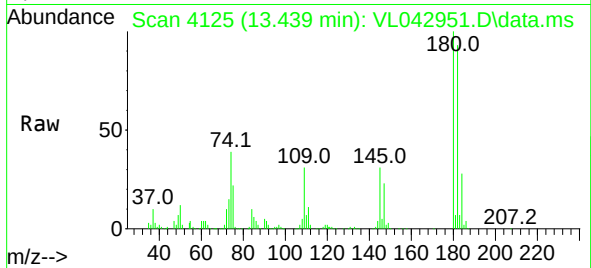
Tgt Ion:	142	Resp:	41369
Ion Ratio	Lower	Upper	
142	100		
141	83.8	65.1	97.7
115	36.1	28.9	43.3





#81
 1,2,4-Trichlorobenzene
 Concen: 2.263 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

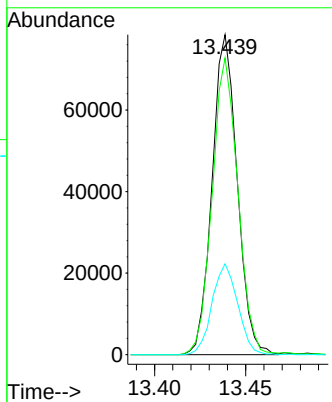
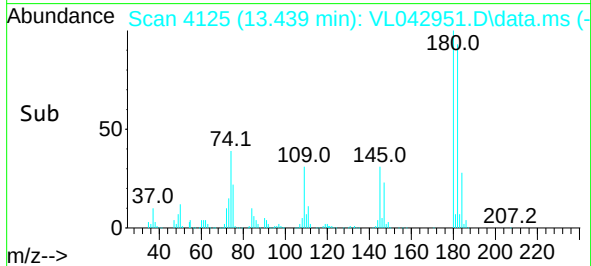
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:180 Resp: 75139
 Ion Ratio Lower Upper
 180 100
 182 95.4 75.7 113.5
 184 29.0 23.9 35.9

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042952.D
 Acq On : 22 Sep 2025 10:48
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Quant Time: Sep 23 02:10:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	162797	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	511767	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	469265	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	348878	9.960	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	23644	1.080	ppbv	97
3) Chlorodifluoromethane	1.476	51	29646	1.086	ppbv	99
4) Chloromethane	1.531	50	10120	1.021	ppbv	97
5) Vinyl Chloride	1.580	62	9228	1.030	ppbv	99
6) Bromomethane	1.667	94	3493	1.105	ppbv	96
7) Chloroethane	1.703	64	3872	1.113	ppbv #	81
8) Dichlorotetrafluoroethane	1.554	85	20172	1.079	ppbv	97
9) Propene	1.482	41	12808	1.079	ppbv	92
10) Heptane	4.972	43	33540m	1.053	ppbv	
11) Trichlorofluoromethane	1.874	101	22397	1.061	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	18180	1.063	ppbv	99
13) Ethanol	1.719	45	1463	1.286	ppbv #	33
14) Bromoethene	1.780	108	6783	1.049	ppbv #	87
15) Acetone	1.832	43	25273	1.192	ppbv	99
16) 1,3-Butadiene	1.609	39	10993	1.099	ppbv	88
17) tert-Butyl alcohol	2.039	59	25141	1.081	ppbv #	88
18) 1,1-Dichloroethene	2.033	96	8192	1.035	ppbv	96
19) Isopropyl Alcohol	1.884	45	13241	1.039	ppbv #	41
20) Methylene Chloride	2.059	84	10045	0.985	ppbv	97
21) Allyl Chloride	2.094	41	15801	1.070	ppbv	95
22) trans-1,2-Dichloroethene	2.337	96	9960	1.108	ppbv	96
23) Vinyl Acetate	2.457	43	30884	1.020	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	19077	1.082	ppbv	99
25) Ethyl Acetate	2.832	43	56877	1.061	ppbv	97
26) Hexane	2.822	57	26276	1.076	ppbv	96
27) Carbon Disulfide	2.149	76	23373	1.067	ppbv #	32
28) Methyl tert-Butyl Ether	2.441	73	12580	0.991	ppbv #	86
29) Chloroform	2.842	83	33240	1.041	ppbv	99
30) Cyclohexane	3.855	84	21707	1.063	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	23828	1.041	ppbv	96
32) 1,1,1-Trichloroethane	3.360	97	35233	1.018	ppbv	97
34) 2-Butanone	2.554	43	37431	1.044	ppbv	97
35) Carbon Tetrachloride	3.758	117	34016	1.033	ppbv	96
36) Benzene	3.651	78	49652	1.033	ppbv	100
37) 1,2-Dichloroethane	3.214	62	26482	1.048	ppbv	98
38) Trichloroethene	4.538	130	23906	1.001	ppbv	98
39) 1,2-Dichloropropane	4.311	63	18493m	1.053	ppbv	
40) 1,4-Dioxane	4.583	88	8804m	1.080	ppbv	
41) Tetrahydrofuran	3.055	42	20845	1.011	ppbv	98
42) Bromodichloromethane	4.480	83	35768m	1.016	ppbv	
43) Methyl Methacrylate	4.871	69	20289	1.040	ppbv	98
44) 2,2,4-Trimethylpentane	4.635	57	84970	1.023	ppbv	96
45) t-1,3-Dichloropropene	6.402	75	21210m	1.011	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042952.D
 Acq On : 22 Sep 2025 10:48
 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 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:10:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

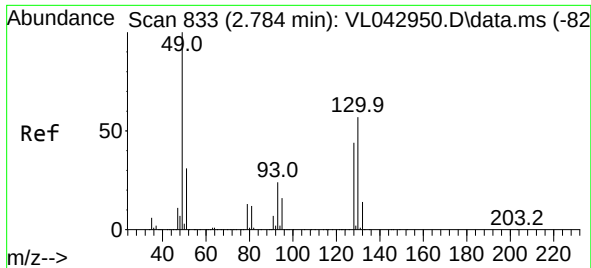
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

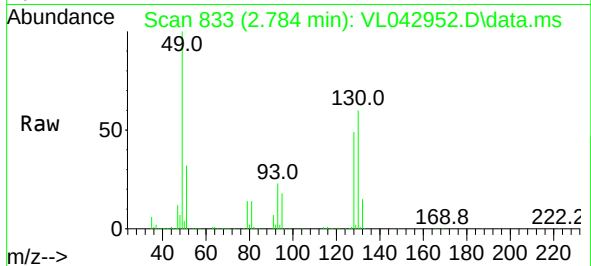
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	27025m	1.011	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	19311	1.041	ppbv	96
48) Dibromochloromethane	7.383	129	30015	1.012	ppbv	99
49) Bromoform	9.477	173	25929	1.005	ppbv	98
50) 4-Methyl-2-Pentanone	5.748	43	48546	1.007	ppbv	98
51) 2-Hexanone	7.431	43	39627	1.034	ppbv #	99
52) Tetrachloroethene	8.218	164	18188	0.978	ppbv	97
53) Toluene	6.926	91	58200	1.023	ppbv	100
54) 1,2-Dibromoethane	7.645	107	26608	1.020	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.920	131	22802	1.015	ppbv	94
57) Chlorobenzene	8.914	112	45873	1.071	ppbv	98
58) Ethyl Benzene	9.351	91	80473	1.044	ppbv	97
59) m/p-Xylene	9.529	91	128139m	2.108	ppbv	
60) o-Xylene	9.959	91	64703	1.066	ppbv	99
61) Styrene	9.869	104	29061	1.012	ppbv	98
62) Isopropylbenzene	10.535	105	96621	1.068	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	31695	0.993	ppbv	96
64) n-propylbenzene	10.985	120	24820	1.049	ppbv	98
65) tert-Butylbenzene	11.526	119	86303	1.072	ppbv	99
66) Benzyl Chloride	11.610	91	8140	0.964	ppbv	100
67) sec-Butylbenzene	11.762	105	120070	1.070	ppbv	100
69) p-Isopropyltoluene	11.921	119	101749	1.074	ppbv	99
70) n-Butylbenzene	12.277	91	98908	1.069	ppbv	99
71) 2-Chlorotoluene	10.895	91	70577	1.033	ppbv	98
72) 4-Ethyltoluene	11.121	105	79095	1.040	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	63174	1.024	ppbv	98
74) 1,2,4-Trimethylbenzene	11.532	105	71411	1.049	ppbv	95
75) 1,3-Dichlorobenzene	11.603	146	44769	1.060	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	42879	1.022	ppbv	97
77) 1,2-Dichlorobenzene	11.940	146	42911	1.068	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	34798	1.107	ppbv	99
79) Naphthalene	13.510	128	61925	1.028	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	17116	0.920	ppbv	97
81) 1,2,4-Trichlorobenzene	13.435	180	32411	1.007	ppbv	97

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

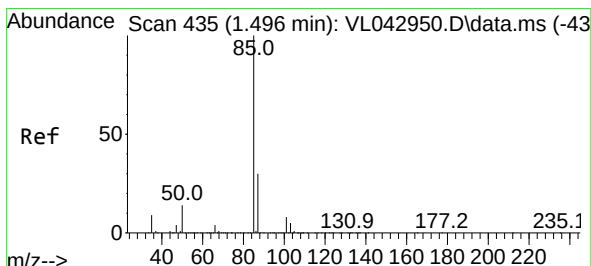
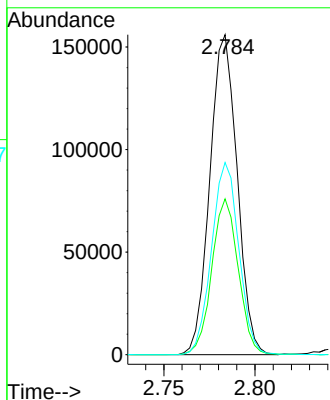
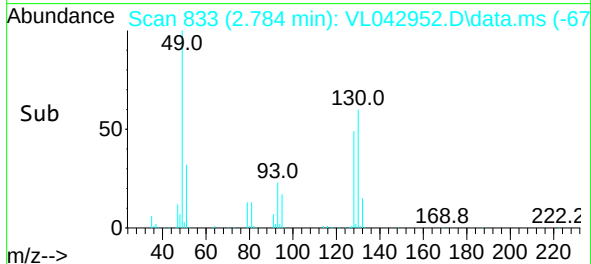
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



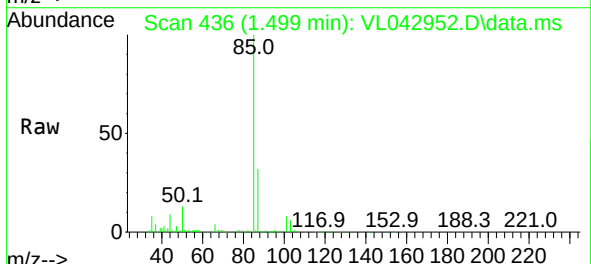
Tgt Ion: 49 Resp: 16279
Ion Ratio Lower Upper
49 100
128 47.3 22.9 68.8
130 60.1 29.1 87.3

Manual Integrations
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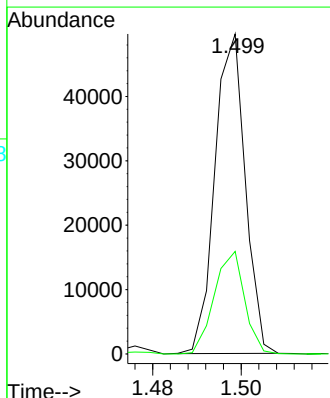
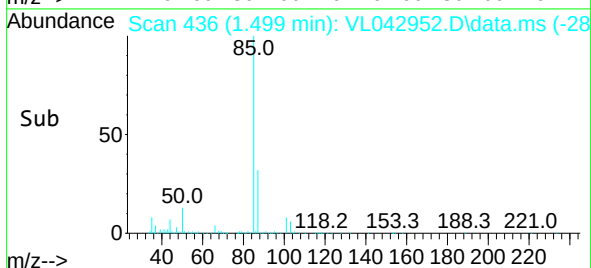
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

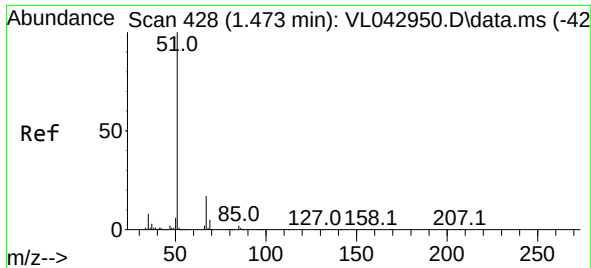


#2
Dichlorodifluoromethane
Concen: 1.080 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48



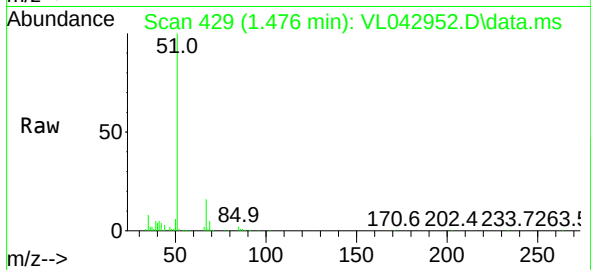
Tgt Ion: 85 Resp: 23644
Ion Ratio Lower Upper
85 100
87 32.1 24.3 36.5





#3
Chlorodifluoromethane
Concen: 1.086 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

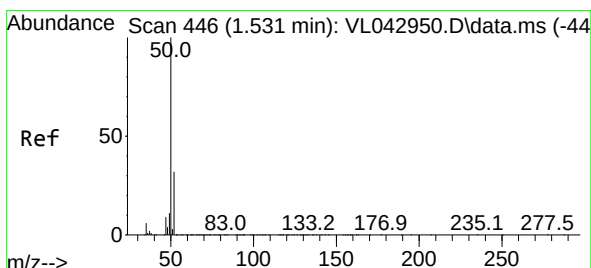
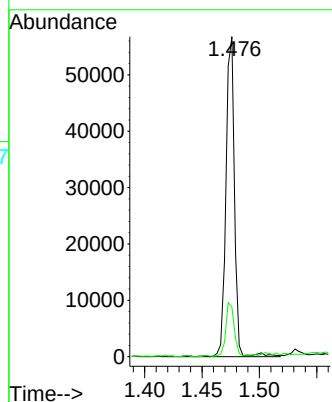
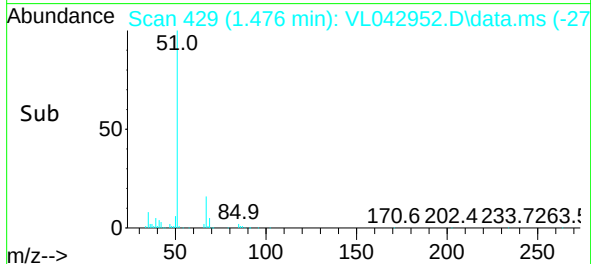
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



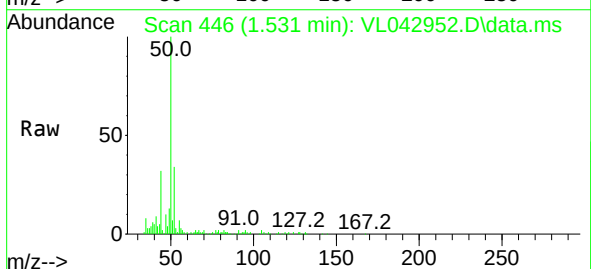
Tgt Ion: 51 Resp: 29640
Ion Ratio Lower Upper
51 100
67 17.9 13.8 20.8

Manual Integrations
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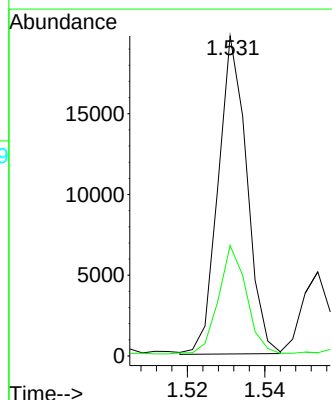
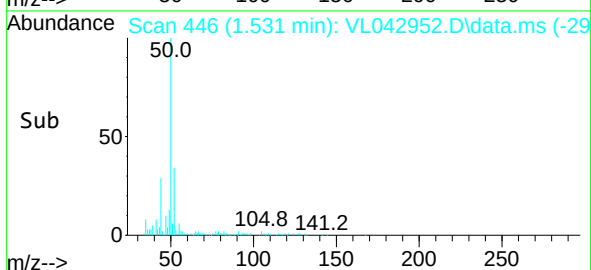
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

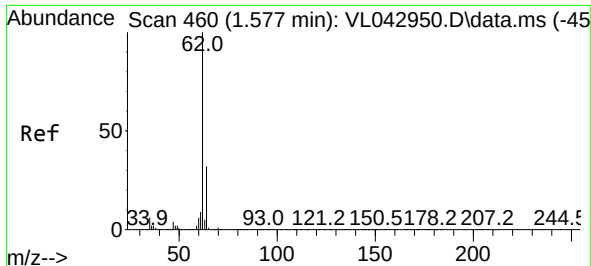


#4
Chloromethane
Concen: 1.021 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48



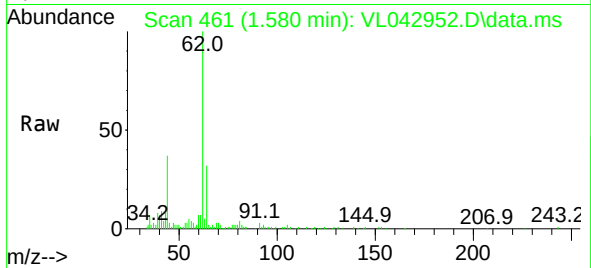
Tgt Ion: 50 Resp: 10120
Ion Ratio Lower Upper
50 100
52 33.9 25.9 38.9





#5
 Vinyl Chloride
 Concen: 1.030 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

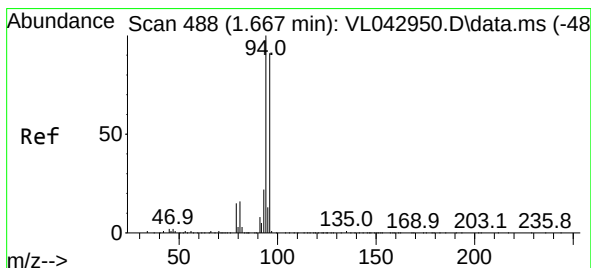
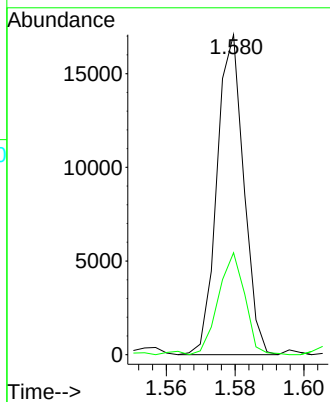
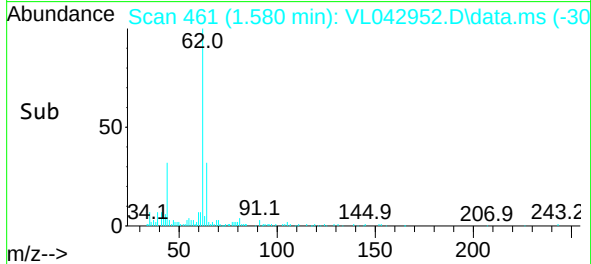
Instrument :
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 ClientSampleId :
 VSTDIC001



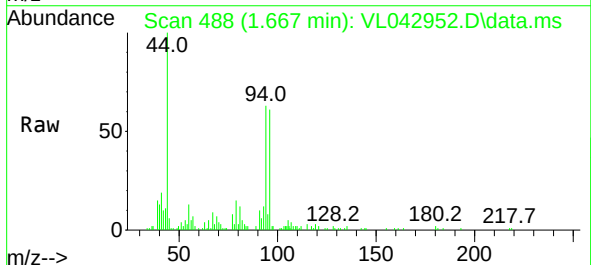
Tgt Ion: 62 Resp: 9228
 Ion Ratio Lower Upper
 62 100
 64 31.4 25.4 38.2

Manual Integrations
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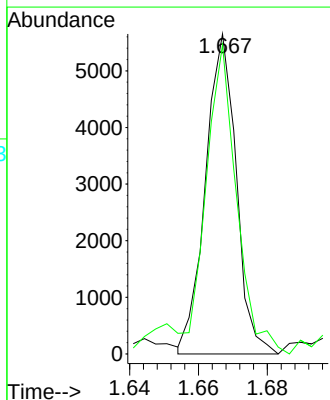
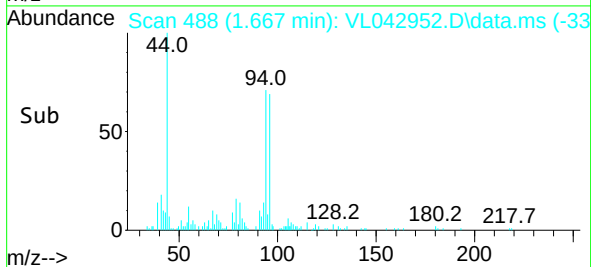
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

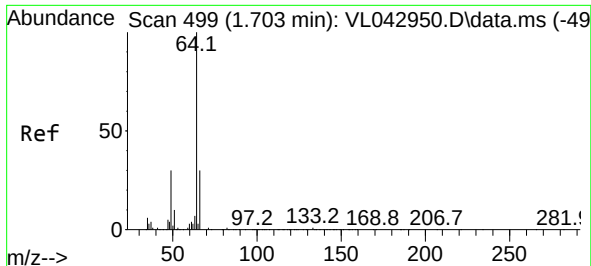


#6
 Bromomethane
 Concen: 1.105 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48



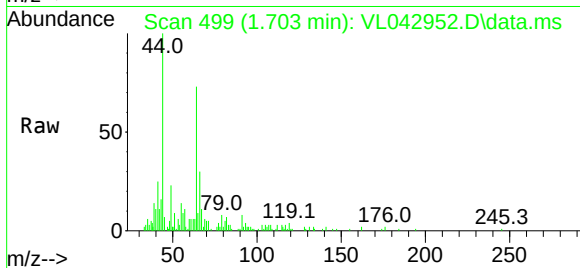
Tgt Ion: 94 Resp: 3493
 Ion Ratio Lower Upper
 94 100
 96 94.4 72.6 108.8





#7
Chloroethane
Concen: 1.113 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

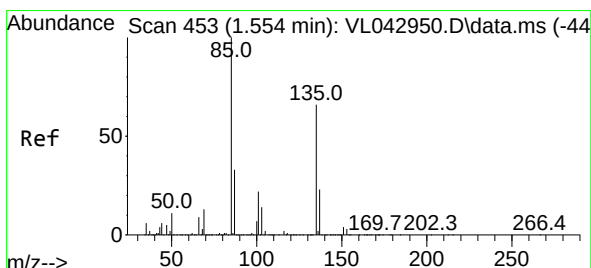
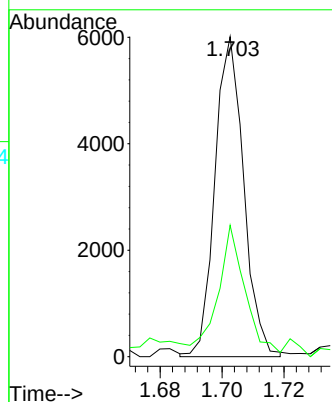
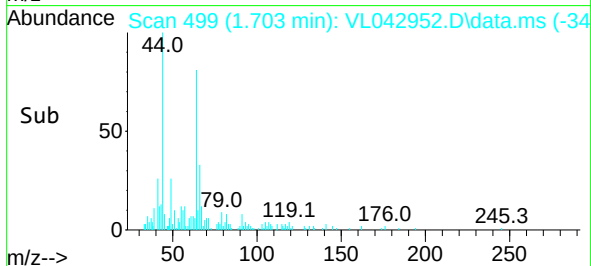
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 64 Resp: 3872
Ion Ratio Lower Upper
64 100
66 41.0 24.6 36.8

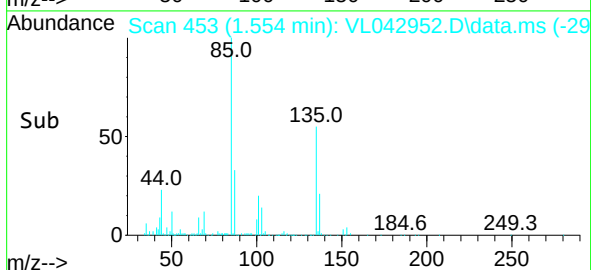
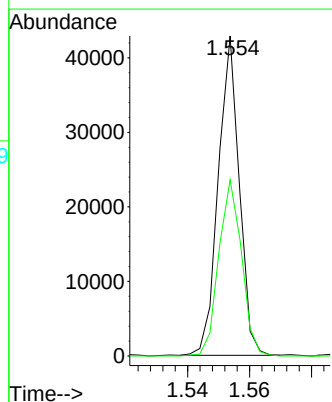
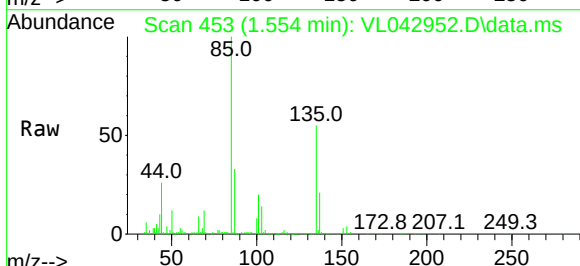
Manual Integrations
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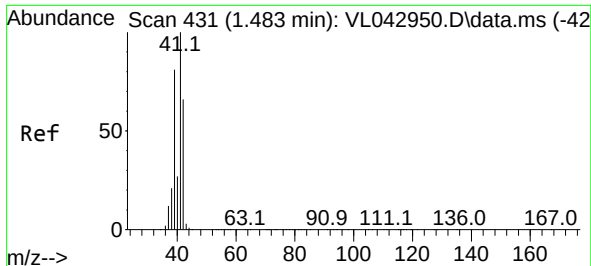
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#8
Dichlorotetrafluoroethane
Concen: 1.079 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

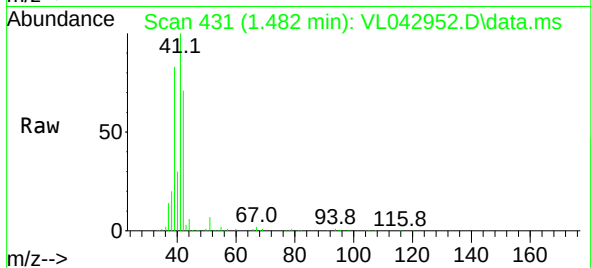
Tgt Ion: 85 Resp: 20172
Ion Ratio Lower Upper
85 100
135 59.9 49.7 74.5





#9
 Propene
 Concen: 1.079 ppbv
 RT: 1.482 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

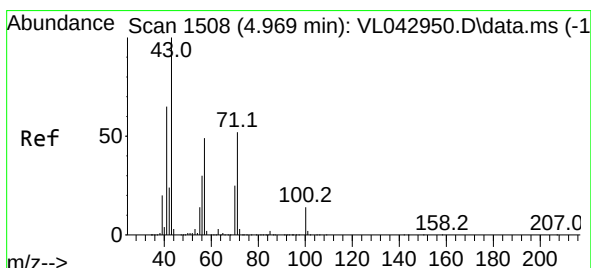
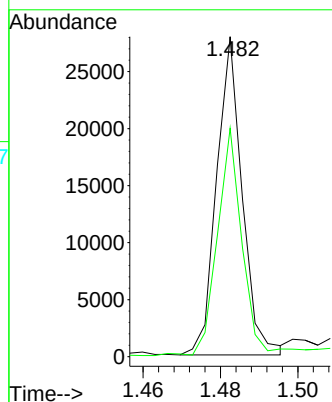
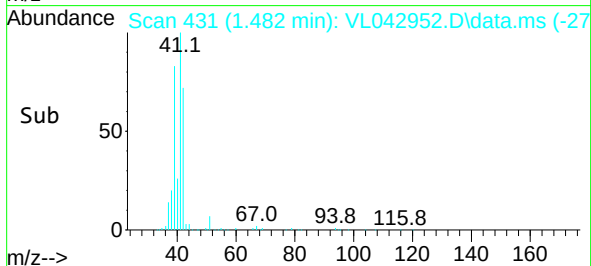
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



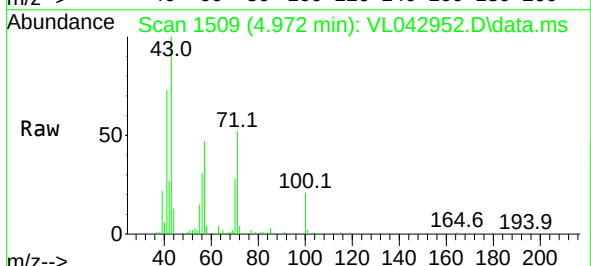
Tgt Ion: 41 Resp: 12808
 Ion Ratio Lower Upper
 41 100
 42 78.5 57.4 86.2

Manual Integrations
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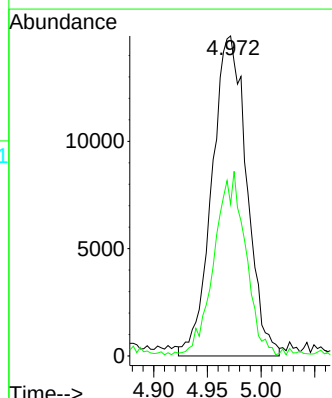
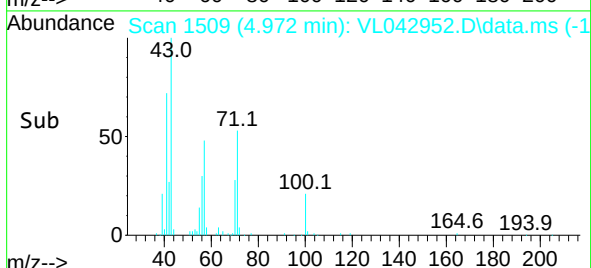
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

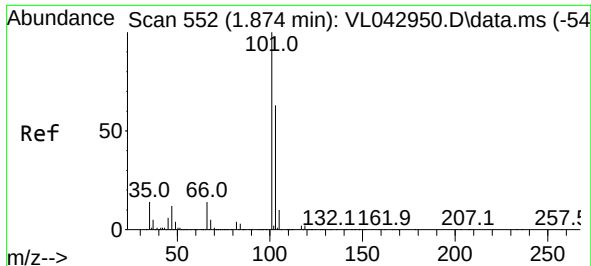


#10
 Heptane
 Concen: 1.053 ppbv m
 RT: 4.972 min Scan# 1509
 Delta R.T. 0.003 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48



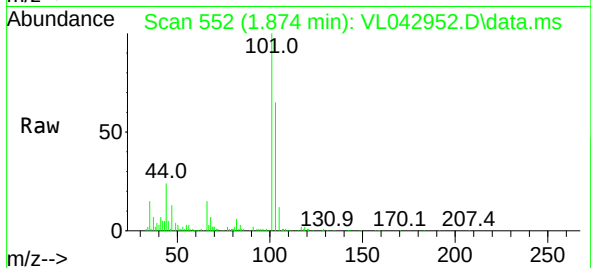
Tgt Ion: 43 Resp: 33540
 Ion Ratio Lower Upper
 43 100
 57 52.5 38.6 57.8





#11
 Trichlorofluoromethane
 Concen: 1.061 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

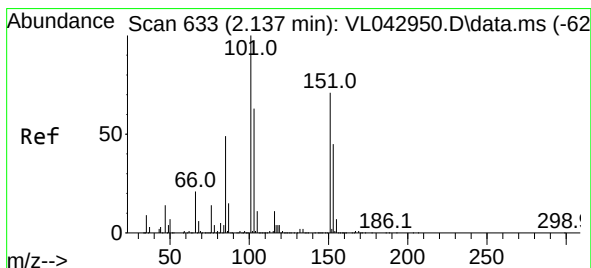
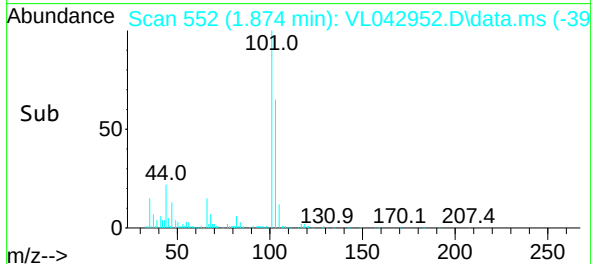
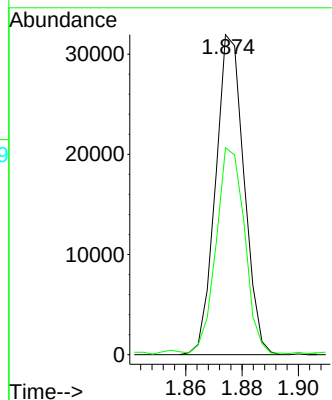
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:101 Resp: 2239
 Ion Ratio Lower Upper
 101 100
 103 64.2 50.1 75.1

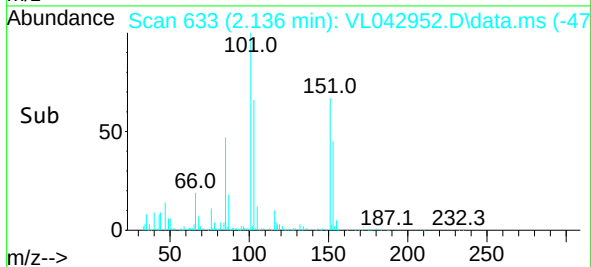
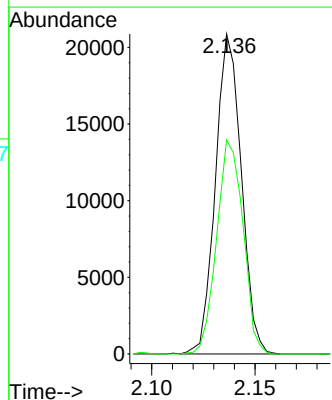
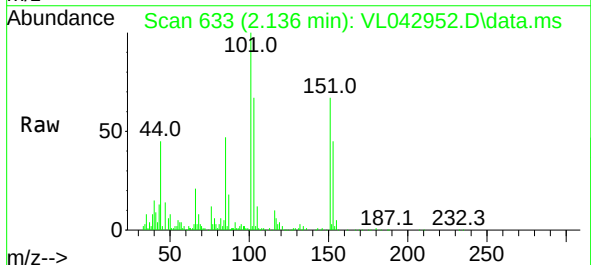
Manual Integrations
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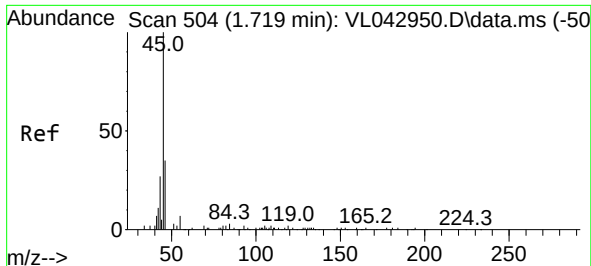
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.063 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

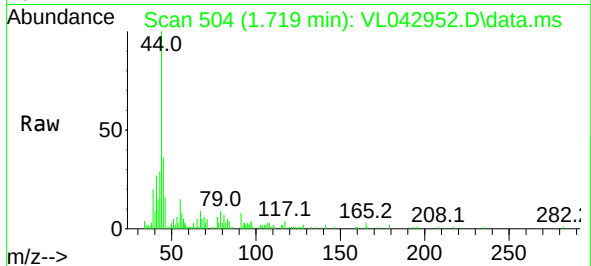
Tgt Ion:101 Resp: 18180
 Ion Ratio Lower Upper
 101 100
 151 68.7 55.7 83.5





#13
Ethanol
Concen: 1.286 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

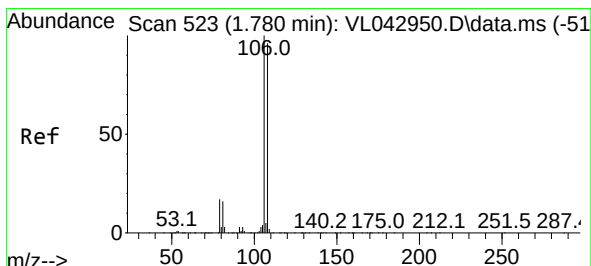
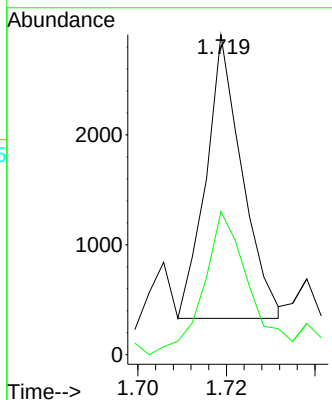
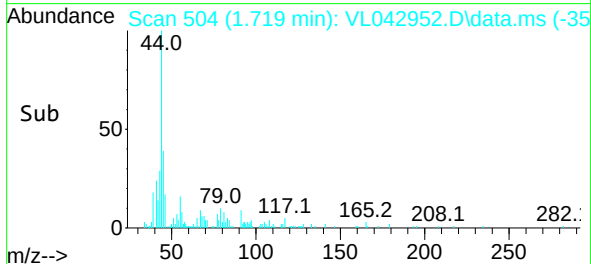
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



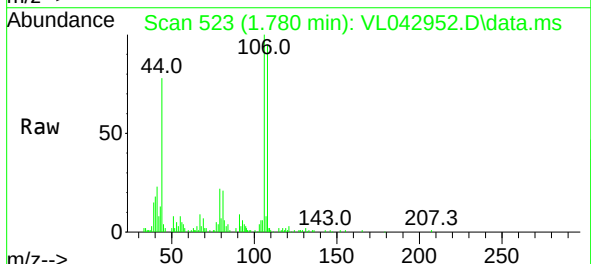
Tgt Ion: 45 Resp: 1463
Ion Ratio Lower Upper
45 100
46 82.0 16.2 64.6

Manual Integrations
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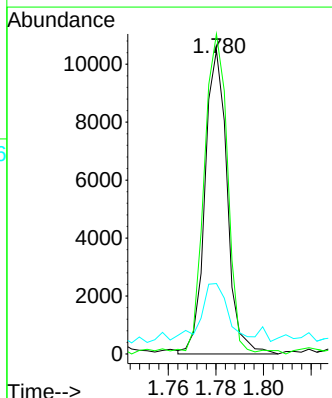
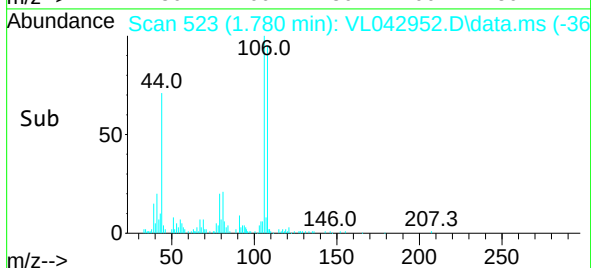
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

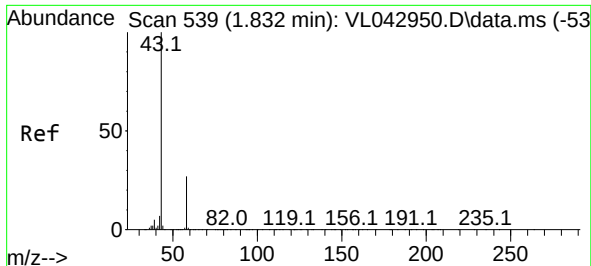


#14
Bromoethene
Concen: 1.049 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48



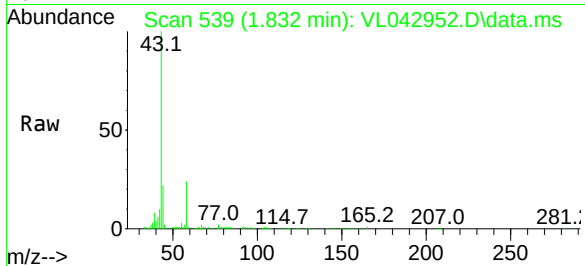
Tgt Ion:108 Resp: 6783
Ion Ratio Lower Upper
108 100
106 110.6 86.0 129.0
79 50.8 14.2 21.2





#15
Acetone
Concen: 1.192 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

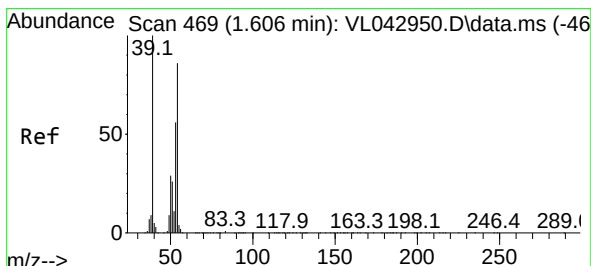
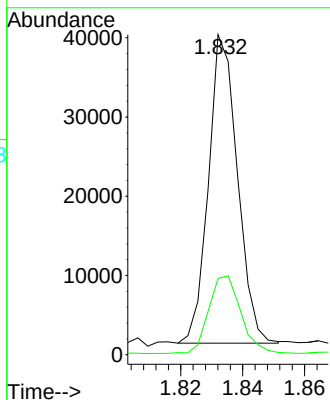
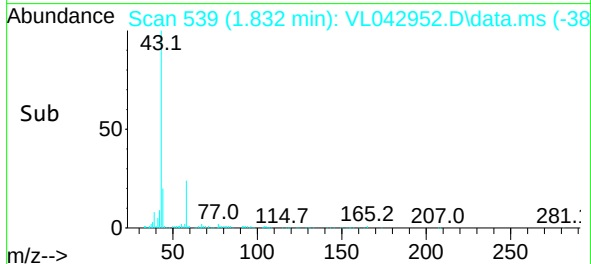
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



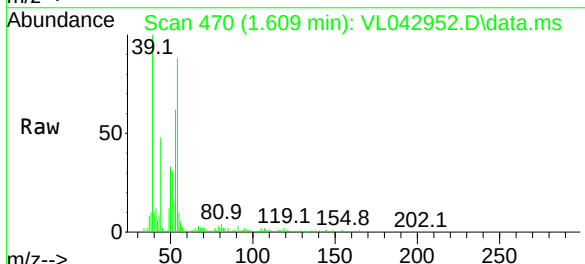
Tgt Ion: 43 Resp: 2527
Ion Ratio Lower Upper
43 100
58 28.3 22.3 33.5

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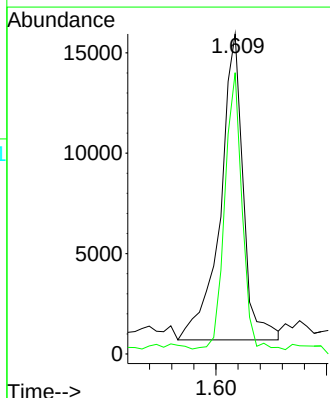
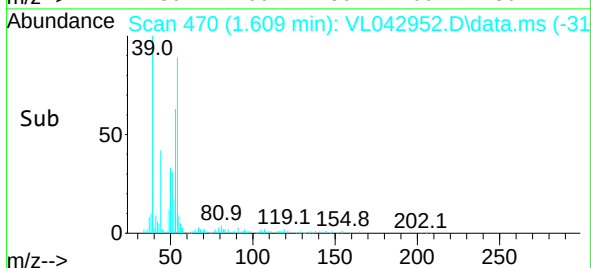
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

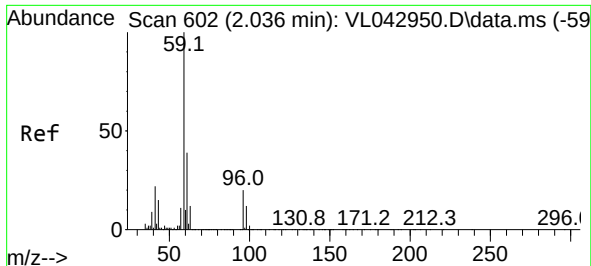


#16
1,3-Butadiene
Concen: 1.099 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48



Tgt Ion: 39 Resp: 10993
Ion Ratio Lower Upper
39 100
54 86.7 60.8 91.2





#17

tert-Butyl alcohol

Concen: 1.081 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 59 Resp: 2514

Ion Ratio Lower Upper

59 100

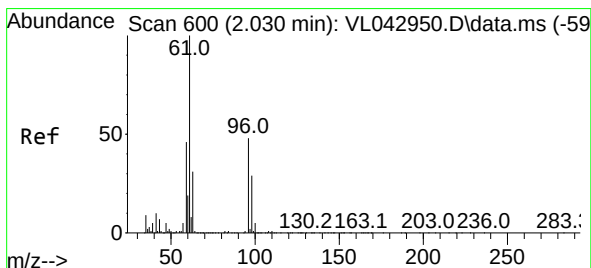
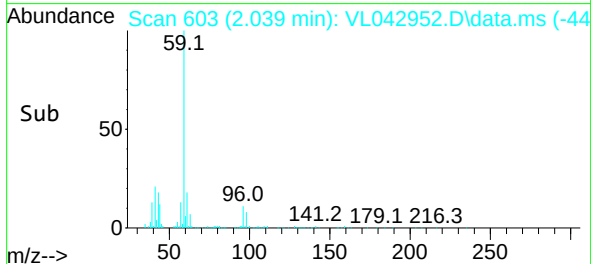
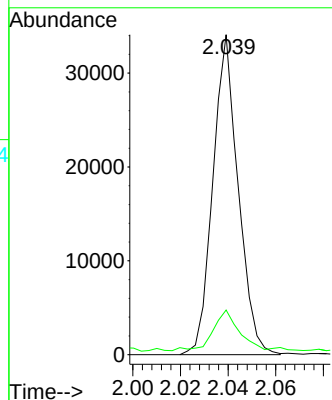
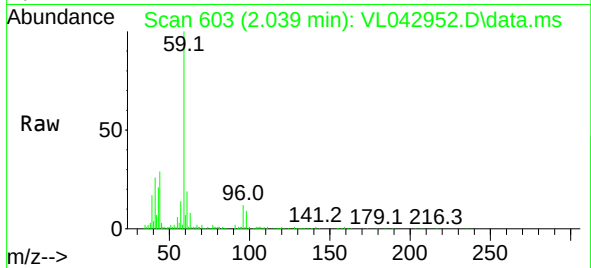
57 15.0 8.6 12.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#18

1,1-Dichloroethene

Concen: 1.035 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

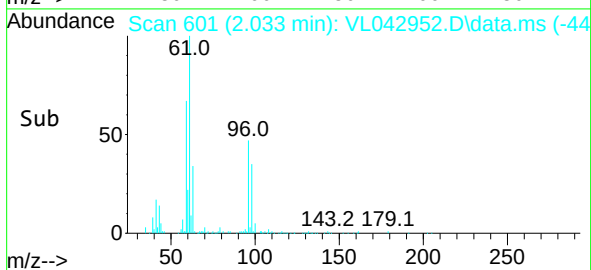
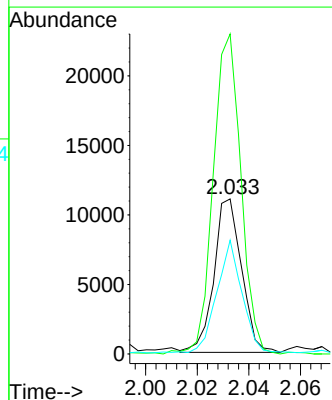
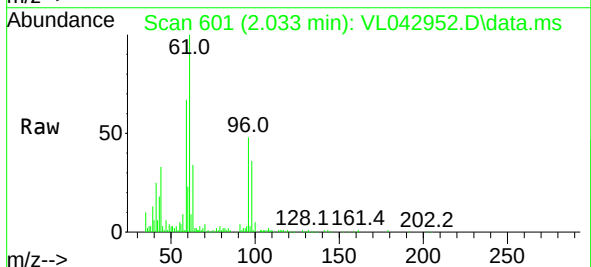
Tgt Ion: 96 Resp: 8192

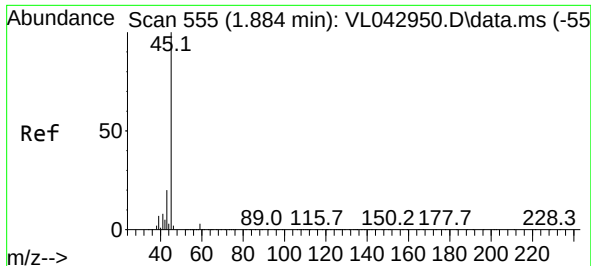
Ion Ratio Lower Upper

96 100

61 208.7 166.2 249.4

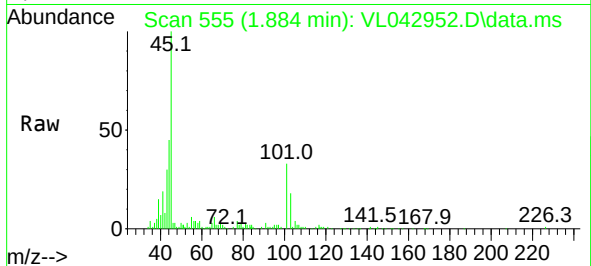
98 72.8 48.6 73.0





#19
Isopropyl Alcohol
Concen: 1.039 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

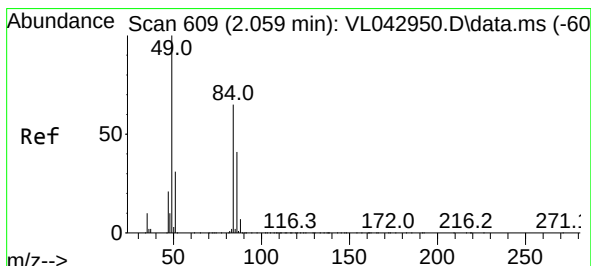
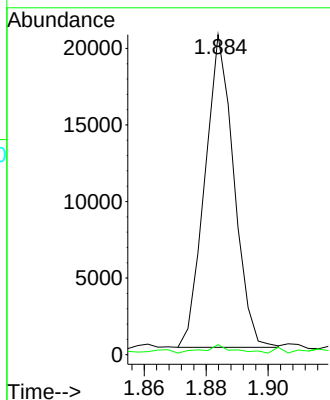
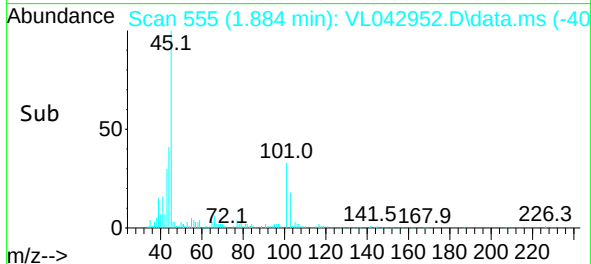
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



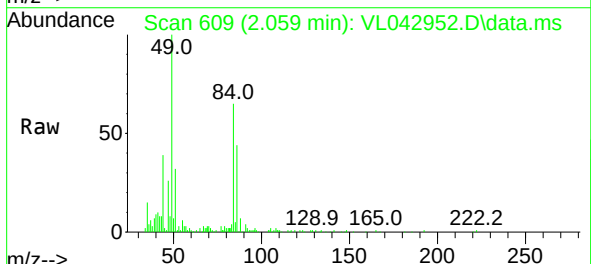
Tgt Ion: 45 Resp: 1324
Ion Ratio Lower Upper
45 100
58 2.6 31.0 46.6

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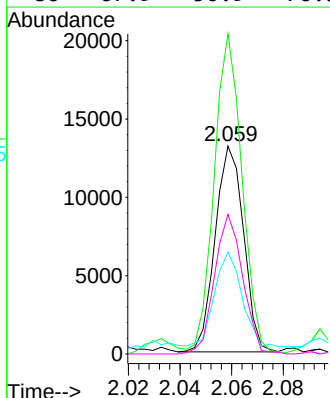
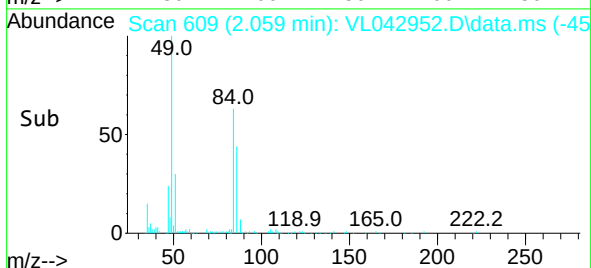
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

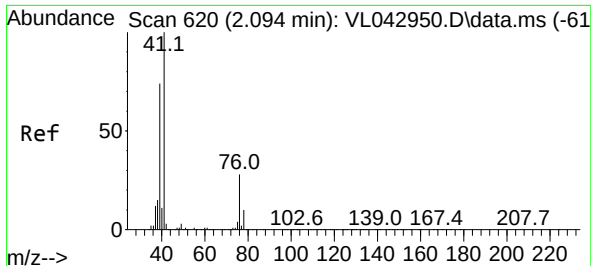


#20
Methylene Chloride
Concen: 0.985 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48



Tgt Ion: 84 Resp: 10045
Ion Ratio Lower Upper
84 100
49 154.6 124.1 186.1
51 45.9 39.8 59.8
86 67.9 50.9 76.3





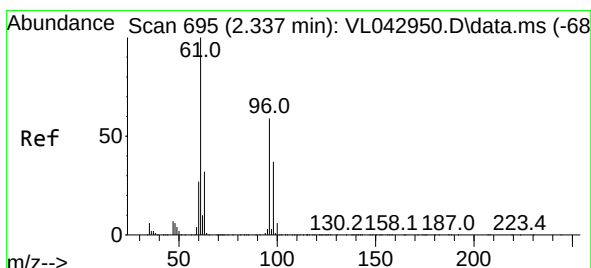
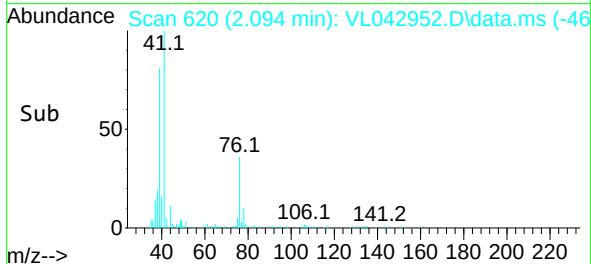
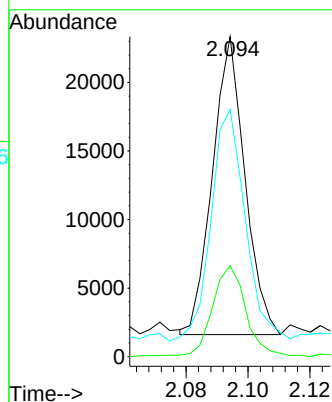
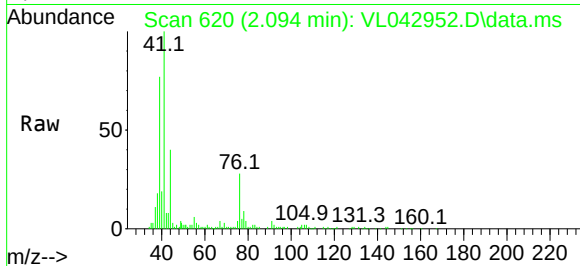
#21
 Allyl Chloride
 Concen: 1.070 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Tgt Ion: 41 Resp: 1580
 Ion Ratio Lower Upper
 41 100
 76 31.8 22.3 33.5
 39 80.7 61.3 91.9

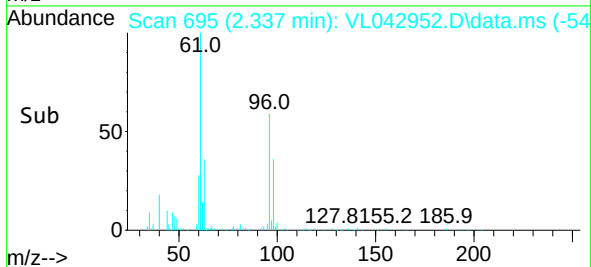
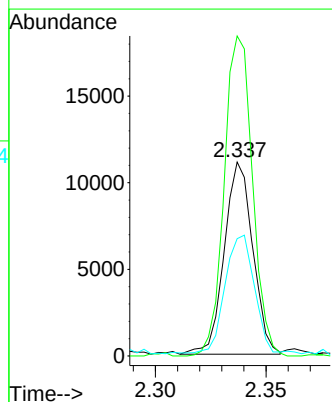
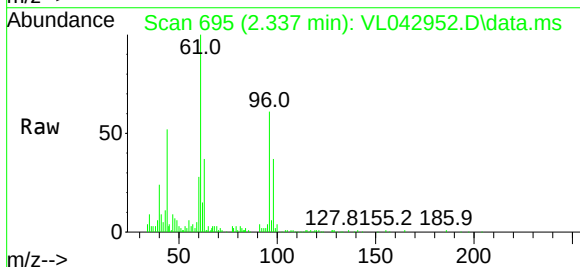
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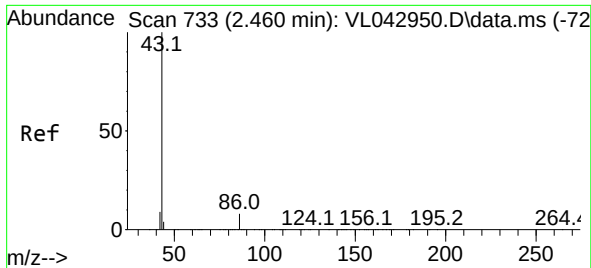
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#22
 trans-1,2-Dichloroethene
 Concen: 1.108 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

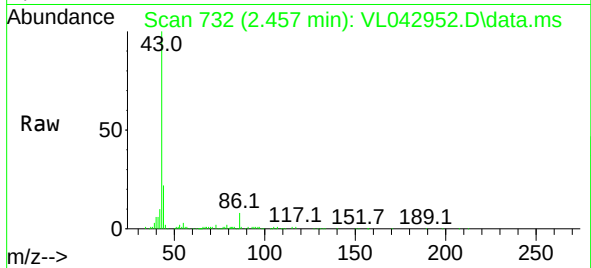
Tgt Ion: 96 Resp: 9960
 Ion Ratio Lower Upper
 96 100
 61 166.5 136.5 204.7
 98 59.4 50.6 76.0





#23
 Vinyl Acetate
 Concen: 1.020 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

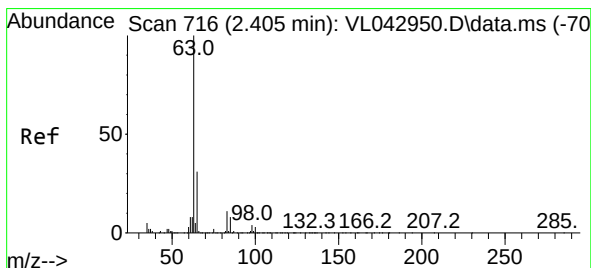
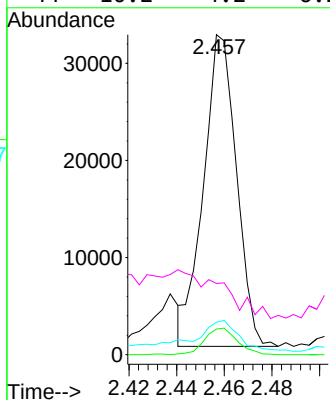
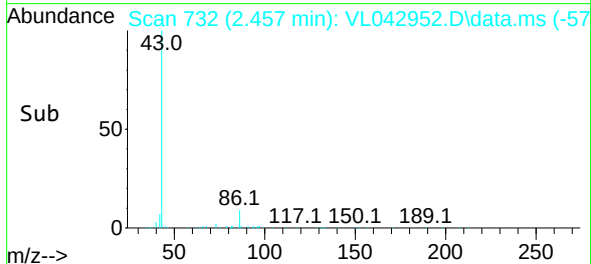
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 43 Resp: 30884
 Ion Ratio Lower Upper
 43 100
 86 8.2 6.2 9.2
 42 9.0 7.4 11.0
 44 10.2 4.2 6.2#

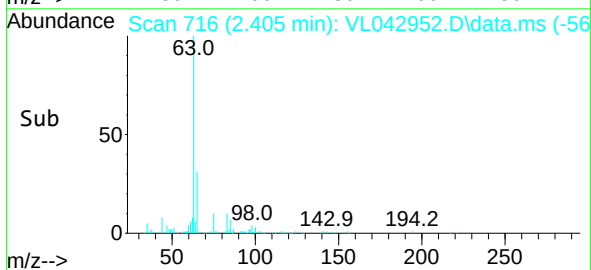
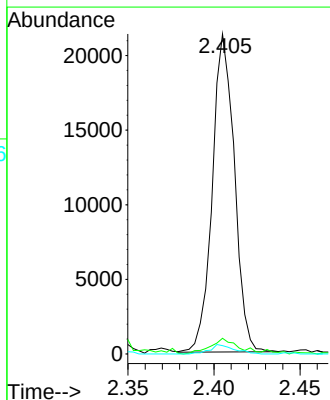
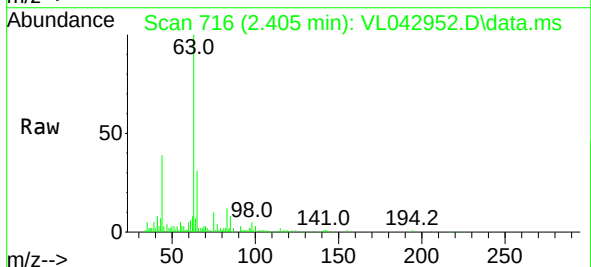
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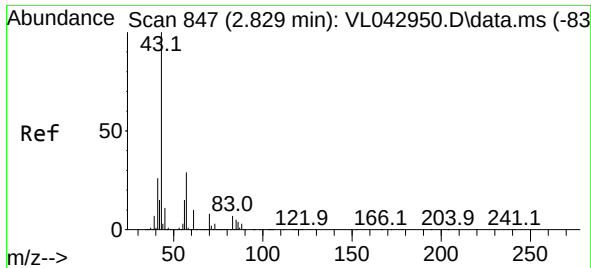
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#24
 1,1-Dichloroethane
 Concen: 1.082 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

Tgt Ion: 63 Resp: 19077
 Ion Ratio Lower Upper
 63 100
 98 4.7 2.2 6.6
 100 2.6 1.4 4.0





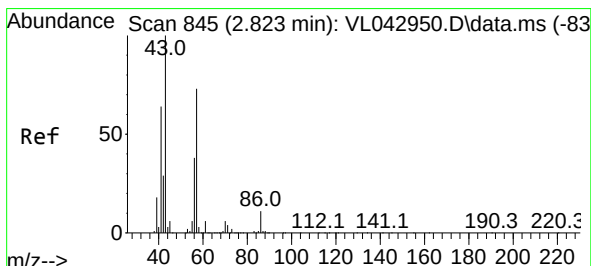
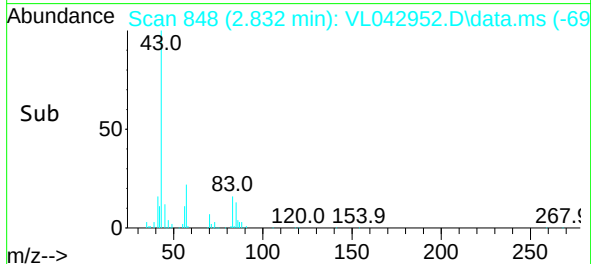
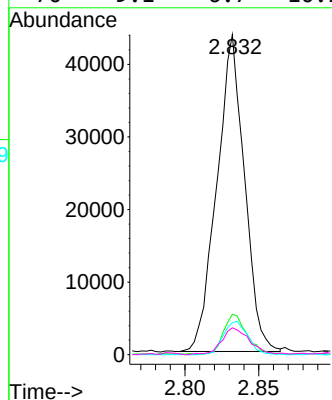
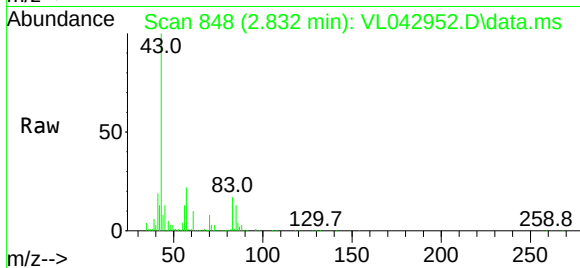
#25
Ethyl Acetate
Concen: 1.061 ppbv
RT: 2.832 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43	Resp: 5687
Ion Ratio	Lower Upper
43 100	
45 11.4	7.7 11.5
61 9.3	7.1 10.7
70 9.1	6.7 10.1

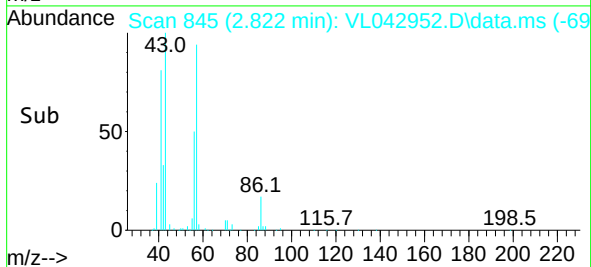
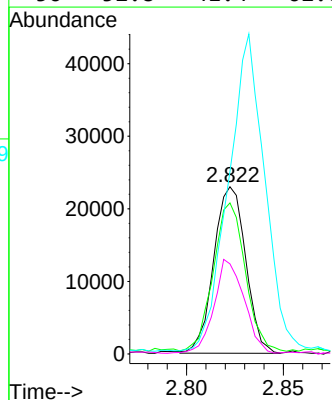
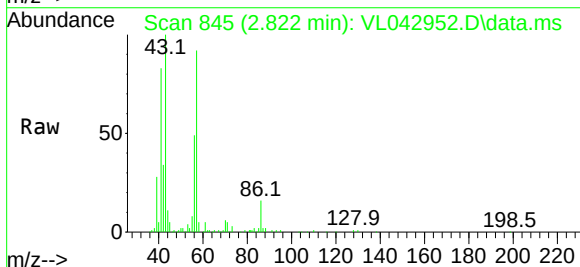
Manual Integrations
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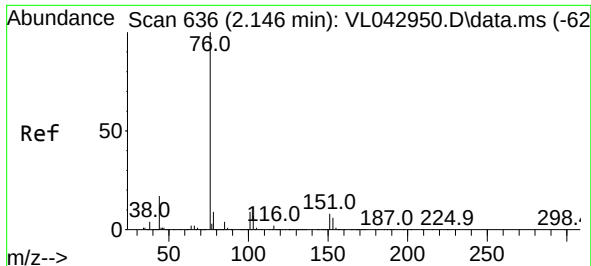
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#26
Hexane
Concen: 1.076 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

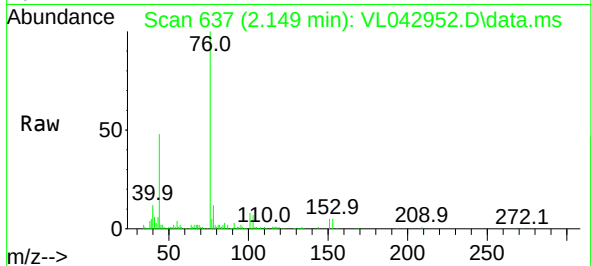
Tgt Ion: 57	Resp: 26276
Ion Ratio	Lower Upper
57 100	
41 95.7	71.7 107.5
43 221.0	180.8 271.2
56 52.8	41.4 62.0





#27
Carbon Disulfide
Concen: 1.067 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

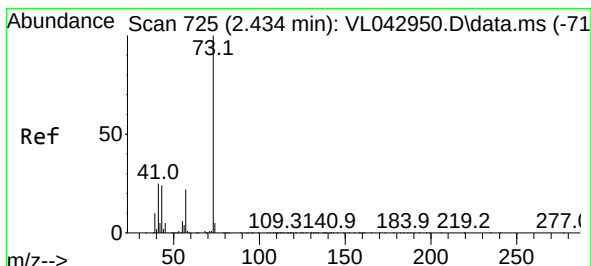
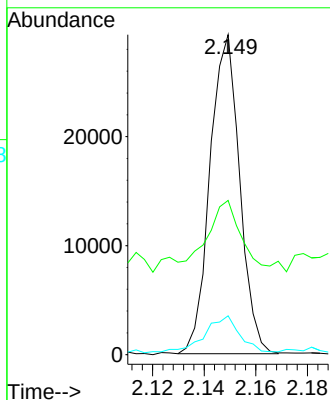
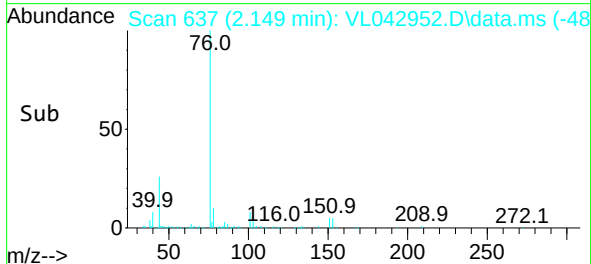
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 76 Resp: 2337
Ion Ratio Lower Upper
76 100
44 66.3 15.6 23.4
78 14.2 8.9 13.3

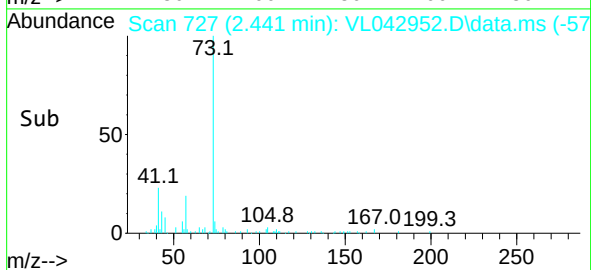
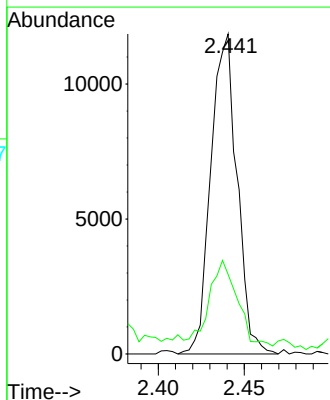
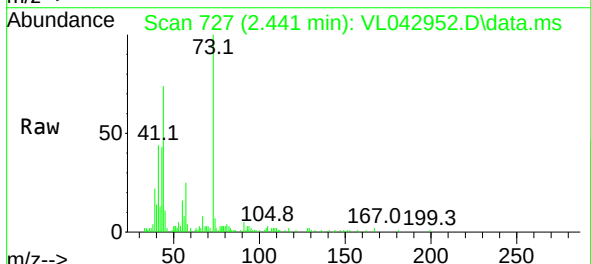
Manual Integrations
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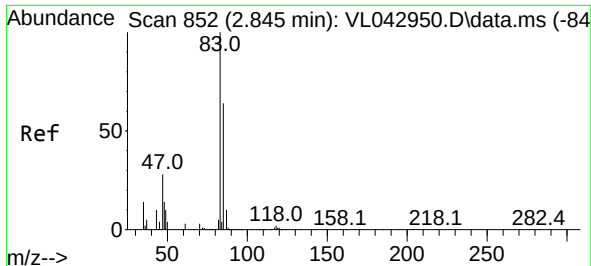
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#28
Methyl tert-Butyl Ether
Concen: 0.991 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.006 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 73 Resp: 12580
Ion Ratio Lower Upper
73 100
57 33.0 20.6 31.0





#29

Chloroform

Concen: 1.041 ppbv

RT: 2.842 min Scan# 851

Delta R.T. -0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 83 Resp: 33240

Ion Ratio Lower Upper

83 100

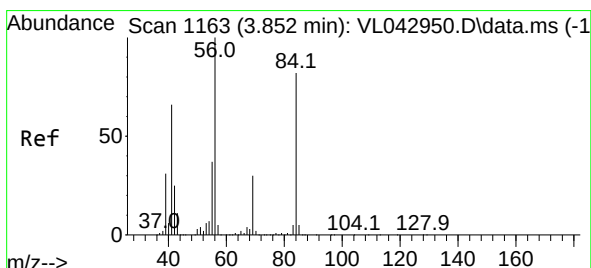
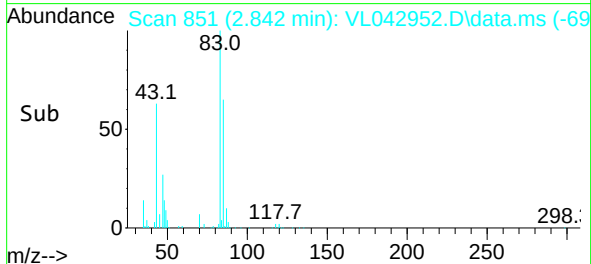
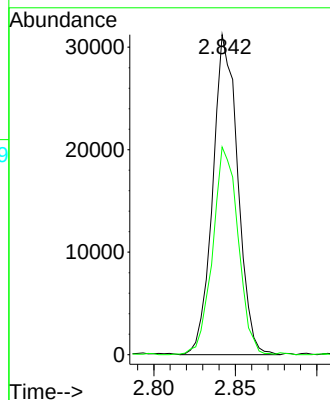
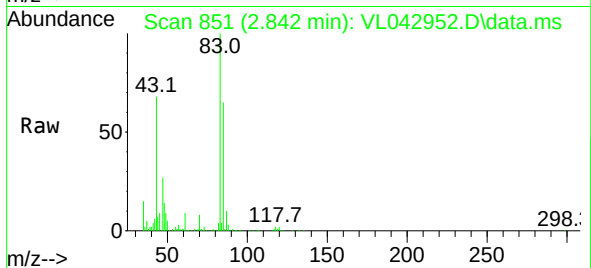
85 64.7 51.2 76.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#30

Cyclohexane

Concen: 1.063 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

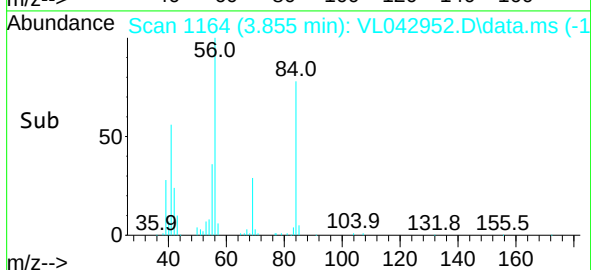
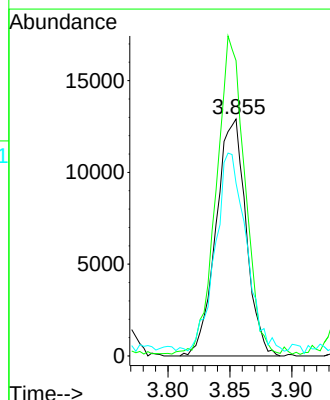
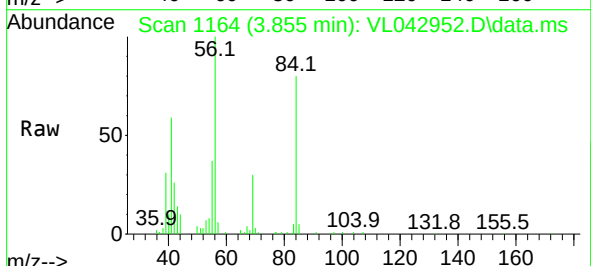
Tgt Ion: 84 Resp: 21707

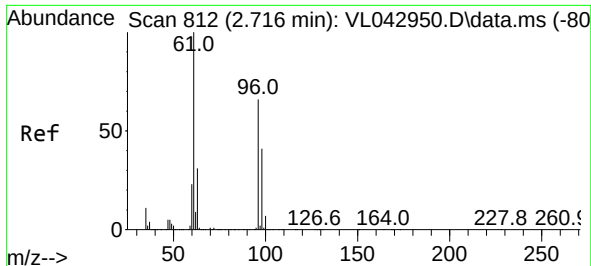
Ion Ratio Lower Upper

84 100

56 127.5 102.2 153.4

41 86.0 65.6 98.4





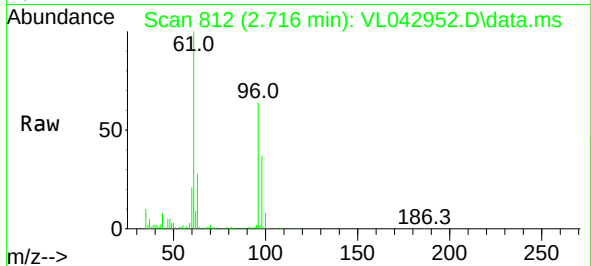
#31
 cis-1,2-Dichloroethene
 Concen: 1.041 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

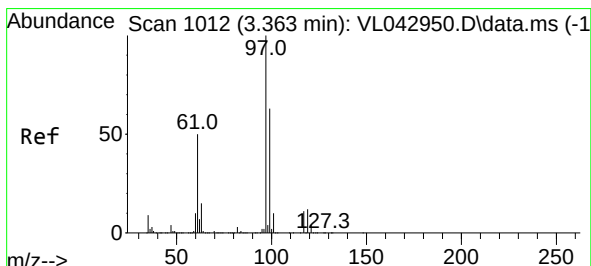
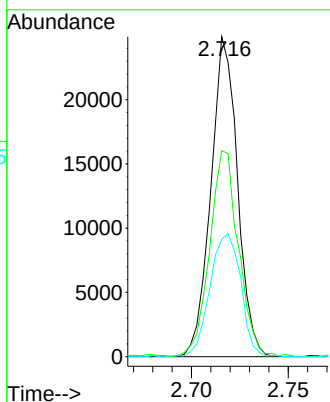
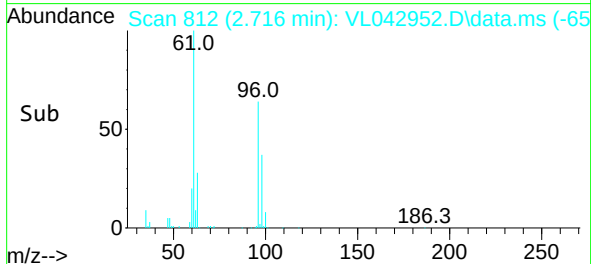
VSTDIC001



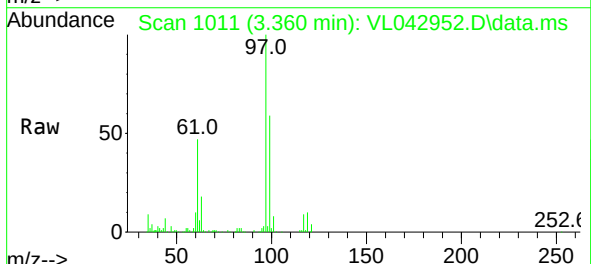
Tgt Ion: 61 Resp: 23828
 Ion Ratio Lower Upper
 61 100
 96 64.2 53.0 79.6
 98 36.4 32.9 49.3

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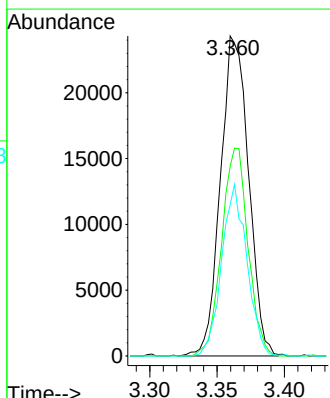
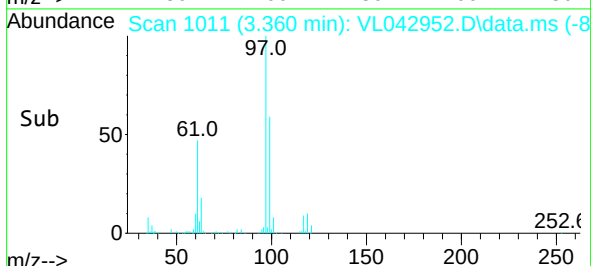
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

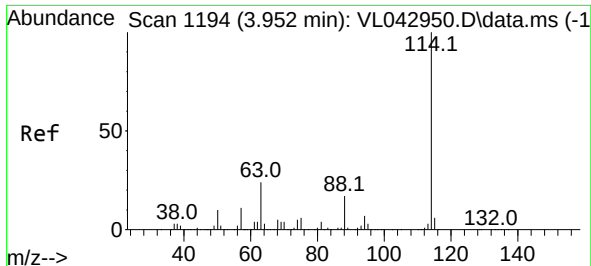


#32
 1,1,1-Trichloroethane
 Concen: 1.018 ppbv
 RT: 3.360 min Scan# 1011
 Delta R.T. -0.003 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48



Tgt Ion: 97 Resp: 35233
 Ion Ratio Lower Upper
 97 100
 99 61.1 51.1 76.7
 61 48.3 39.8 59.6





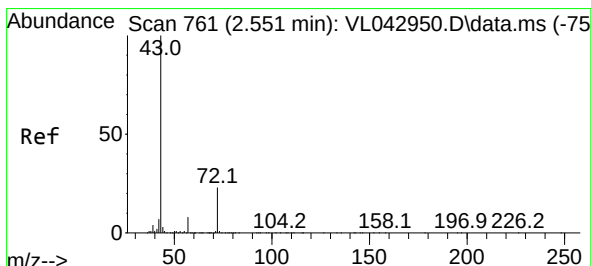
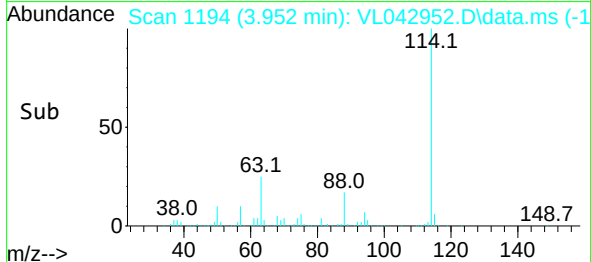
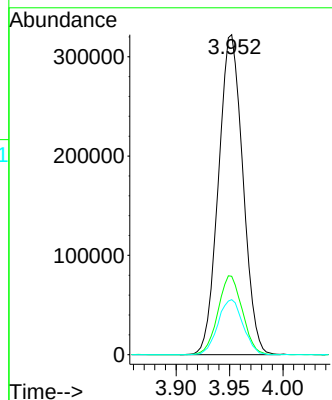
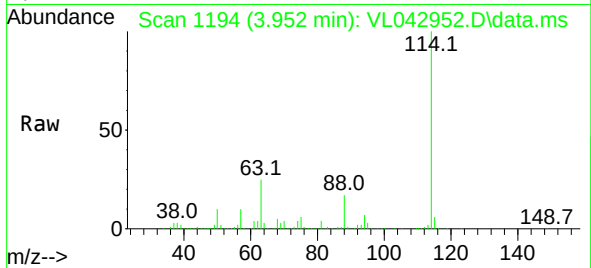
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:114 Resp: 51176
Ion Ratio Lower Upper
114 100
63 24.6 19.4 29.2
88 17.6 14.2 21.2

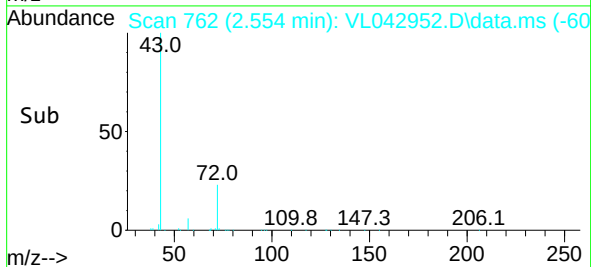
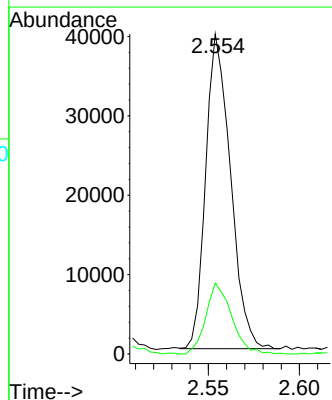
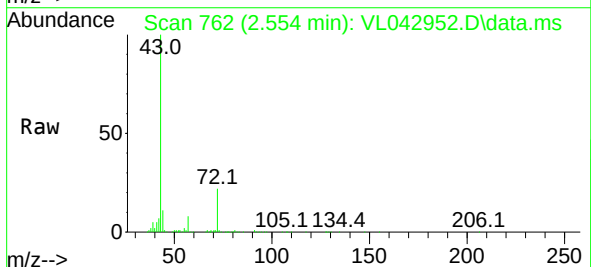
Manual Integrations
APPROVED

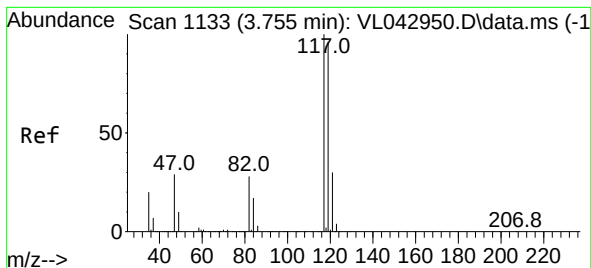
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#34
2-Butanone
Concen: 1.044 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 43 Resp: 37431
Ion Ratio Lower Upper
43 100
72 23.4 17.7 26.5





#35

Carbon Tetrachloride

Concen: 1.033 ppbv

RT: 3.758 min Scan# 1133

Delta R.T. 0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

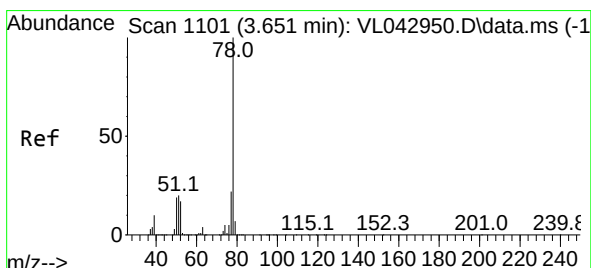
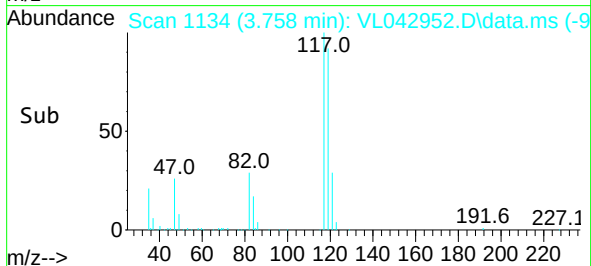
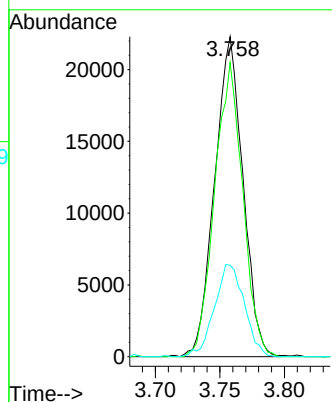
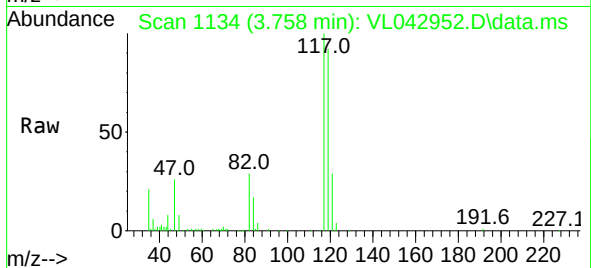
Tgt Ion:	117	Resp:	34010
Ion	Ratio	Lower	Upper
117	100		
119	91.9	76.9	115.3
121	28.5	23.7	35.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#36

Benzene

Concen: 1.033 ppbv

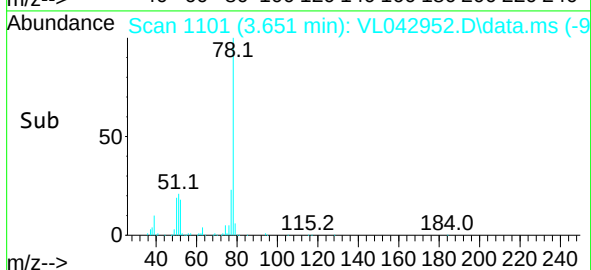
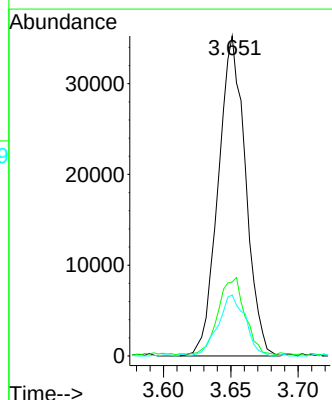
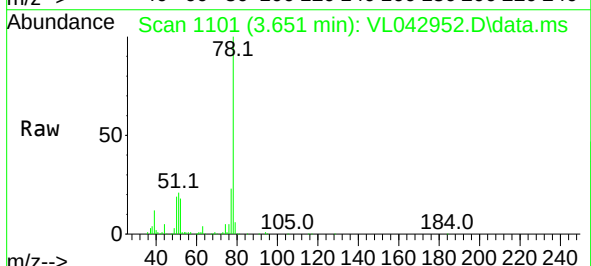
RT: 3.651 min Scan# 1101

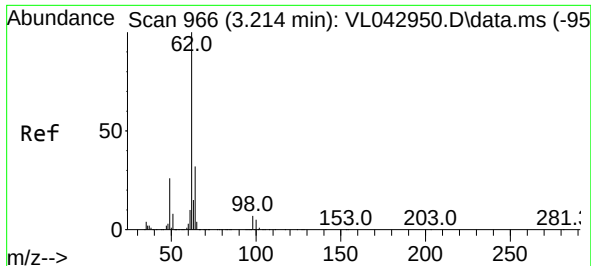
Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Tgt Ion:	78	Resp:	49652
Ion	Ratio	Lower	Upper
78	100		
77	22.4	17.8	26.6
50	18.8	15.0	22.4





#37

1,2-Dichloroethane

Concen: 1.048 ppbv

RT: 3.214 min Scan# 90

Delta R.T. -0.000 min

Lab File: VL042952.D

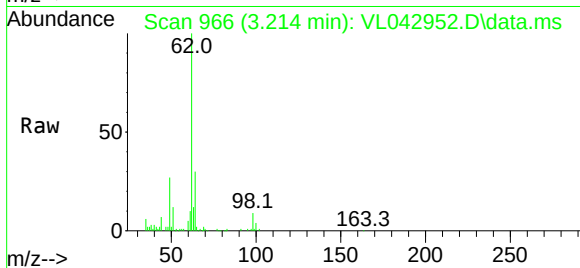
Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001



Tgt Ion: 62 Resp: 2648

Ion Ratio Lower Upper

62 100

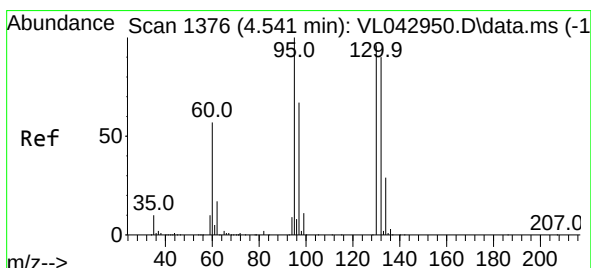
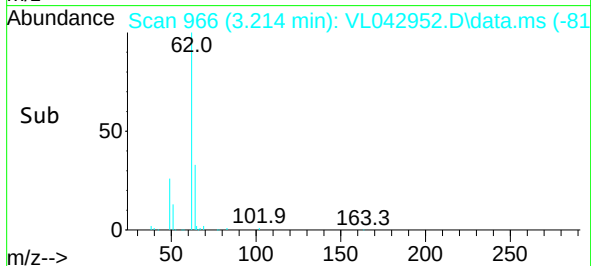
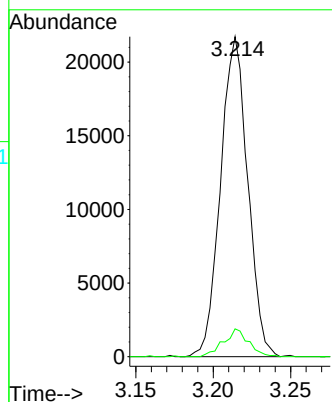
98 8.0 5.9 8.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#38

Trichloroethene

Concen: 1.001 ppbv

RT: 4.538 min Scan# 1375

Delta R.T. -0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Tgt Ion:130 Resp: 23906

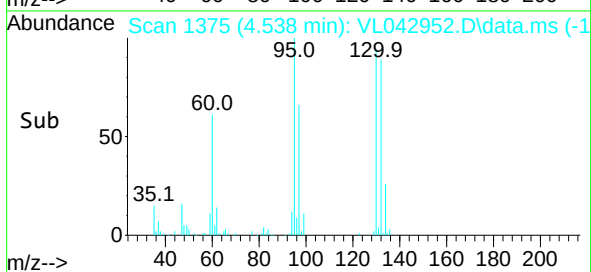
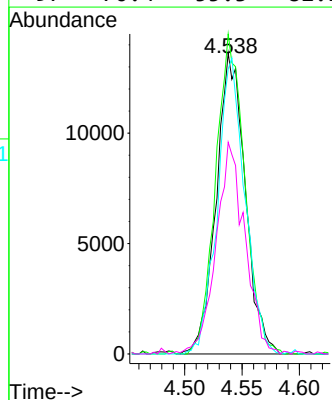
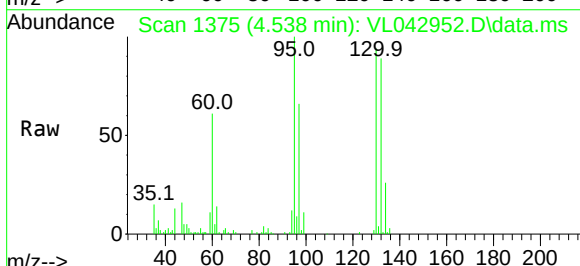
Ion Ratio Lower Upper

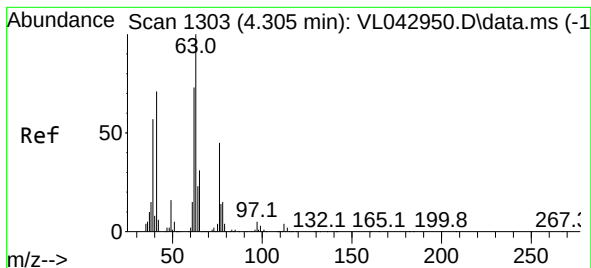
130 100

95 106.0 83.0 124.4

132 94.7 74.6 112.0

97 70.4 55.3 82.9





#39

1,2-Dichloropropane

Concen: 1.053 ppbv m

RT: 4.311 min Scan# 1305

Delta R.T. 0.006 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

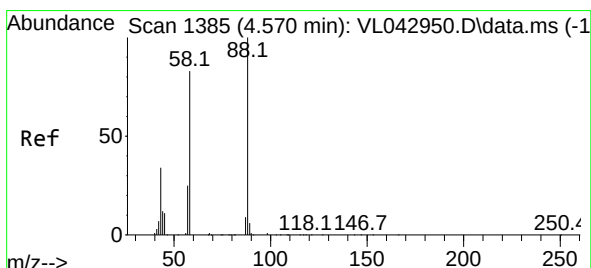
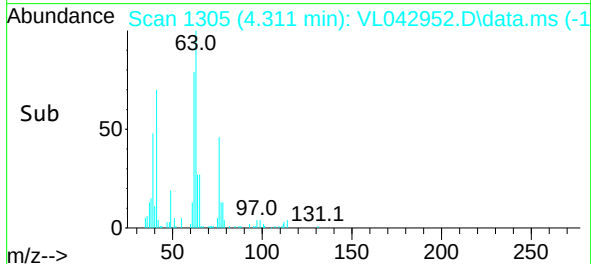
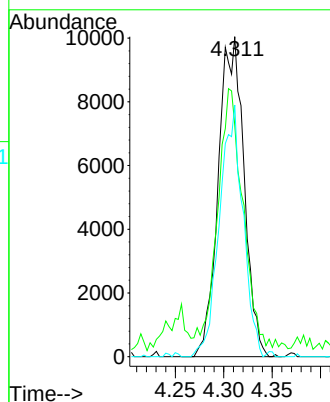
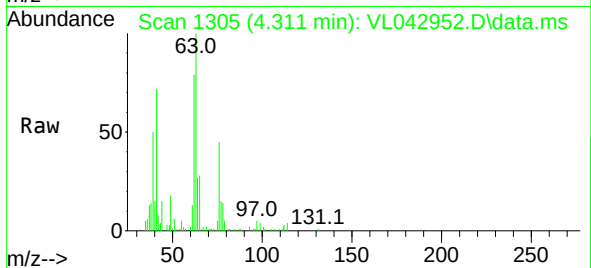
VSTDICC001

Tgt Ion:	63	Resp:	1849
Ion	Ratio	Lower	Upper
63	100		
41	72.4	57.5	86.3
62	78.6	58.5	87.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#40

1,4-Dioxane

Concen: 1.080 ppbv m

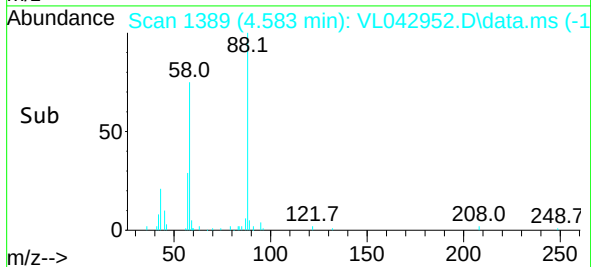
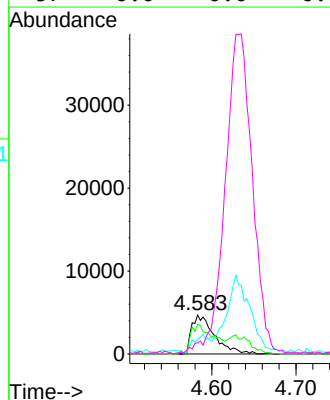
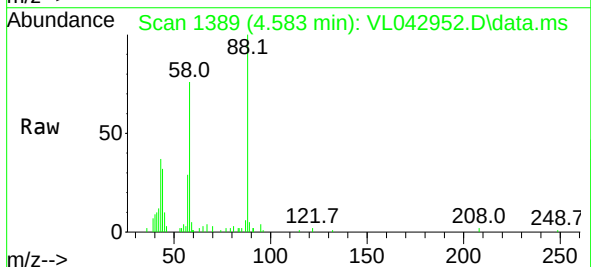
RT: 4.583 min Scan# 1389

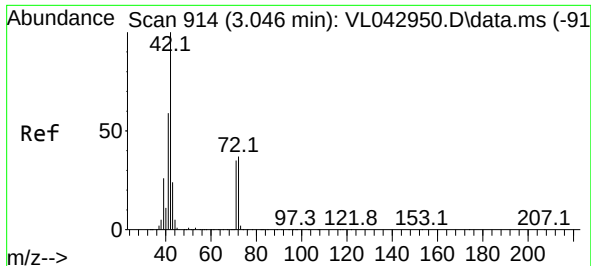
Delta R.T. 0.013 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

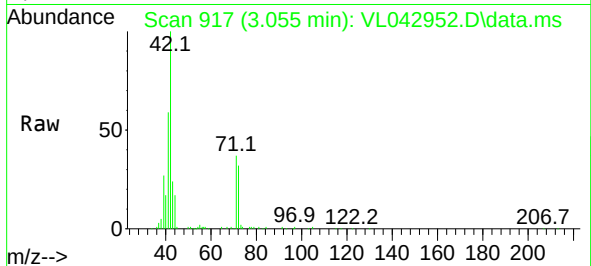
Tgt Ion:	88	Resp:	8804
Ion	Ratio	Lower	Upper
88	100		
58	76.4	59.7	89.5
43	9.7	28.9	43.3
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 1.011 ppbv
RT: 3.055 min Scan# 914
Delta R.T. 0.009 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

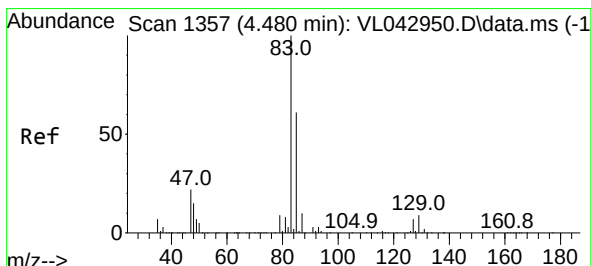
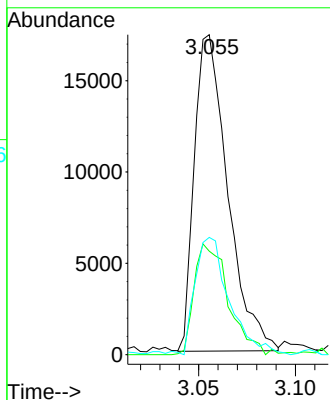
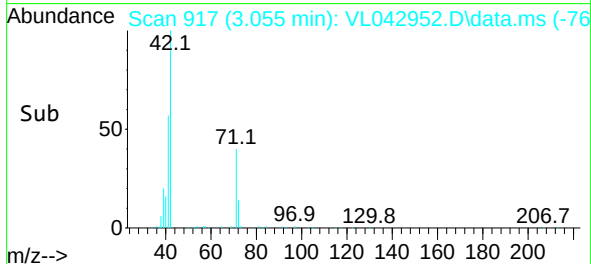
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



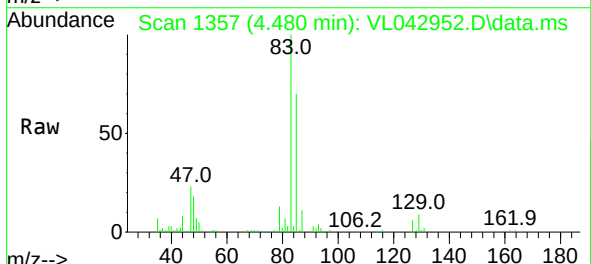
Tgt Ion: 42 Resp: 2084
Ion Ratio Lower Upper
42 100
72 37.0 30.0 45.0
71 37.4 28.8 43.2

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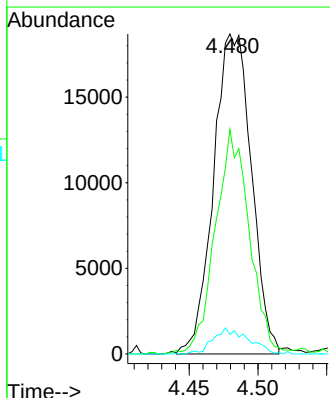
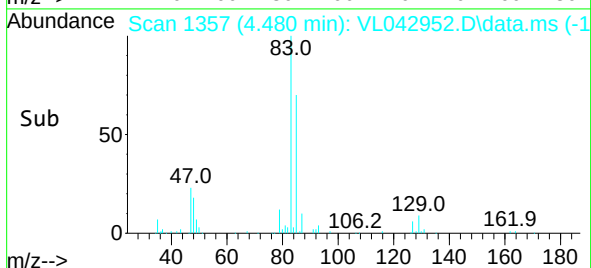
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

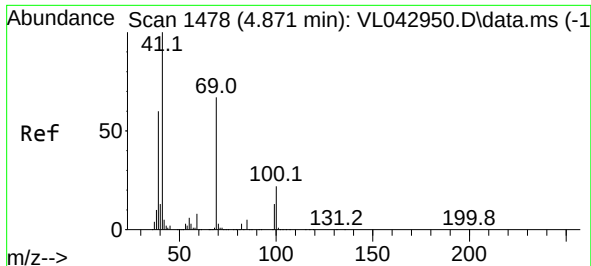


#42
Bromodichloromethane
Concen: 1.016 ppbv m
RT: 4.480 min Scan# 1357
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48



Tgt Ion: 83 Resp: 35768
Ion Ratio Lower Upper
83 100
85 70.1 49.0 73.6
127 6.1 5.3 7.9





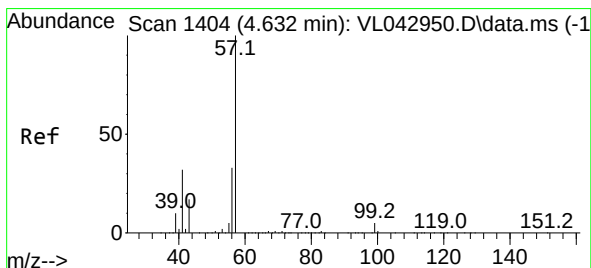
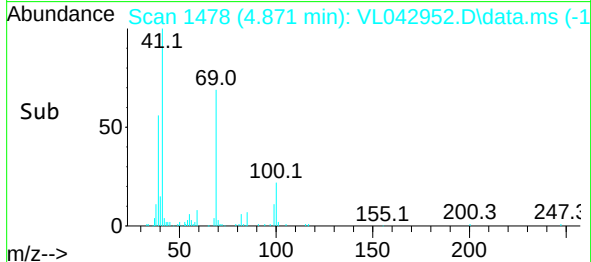
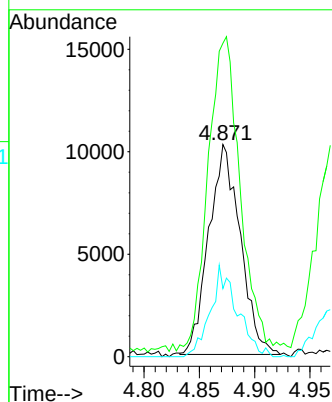
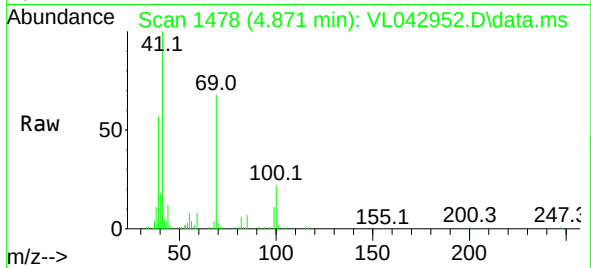
#43
Methyl Methacrylate
Concen: 1.040 ppbv
RT: 4.871 min Scan# 1478
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Instrument : MSVOA_1
ClientSampleId : VSTDIC001

Tgt Ion: 69 Resp: 20289
Ion Ratio Lower Upper
69 100
41 152.1 124.5 186.7
100 36.8 29.0 43.6

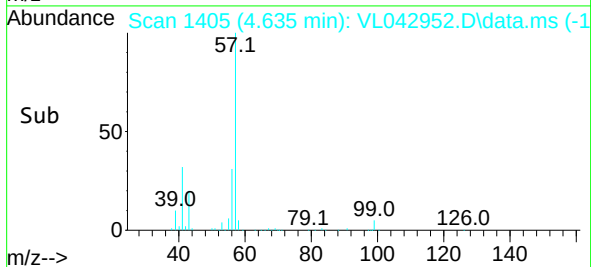
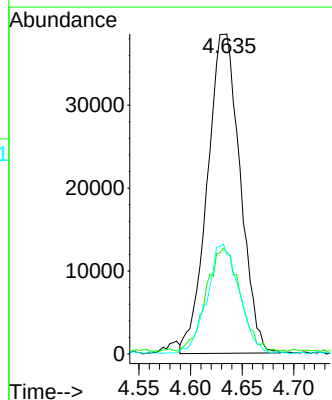
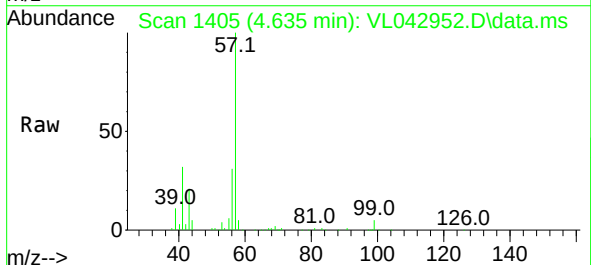
Manual Integrations
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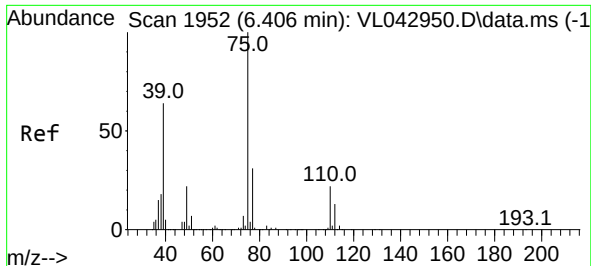
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#44
2,2,4-Trimethylpentane
Concen: 1.023 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 57 Resp: 84970
Ion Ratio Lower Upper
57 100
41 34.1 25.5 38.3
56 34.4 25.8 38.8





#45

t-1,3-Dichloropropene

Concen: 1.011 ppbv m

RT: 6.402 min Scan# 1952

Delta R.T. -0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 75 Resp: 21210

Ion Ratio Lower Upper

75 100

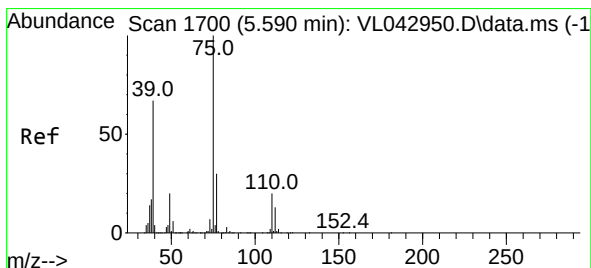
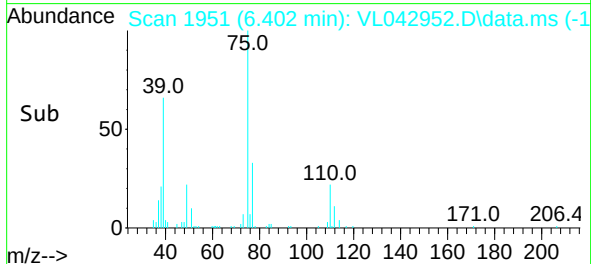
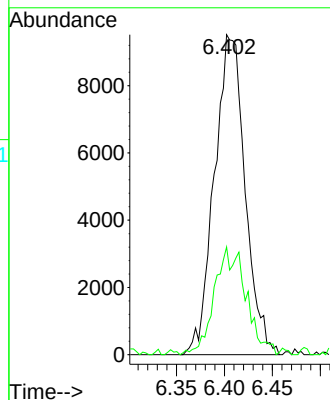
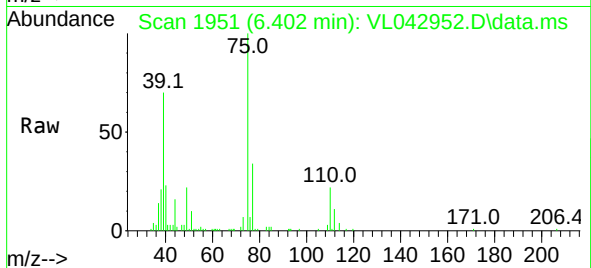
77 33.7 25.0 37.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#46

cis-1,3-Dichloropropene

Concen: 1.011 ppbv m

RT: 5.587 min Scan# 1699

Delta R.T. -0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

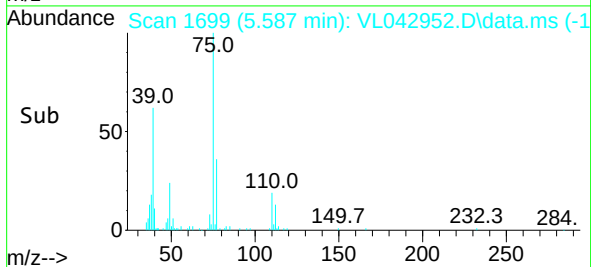
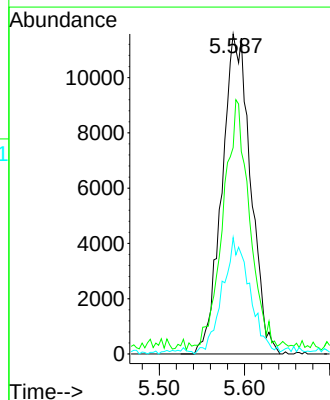
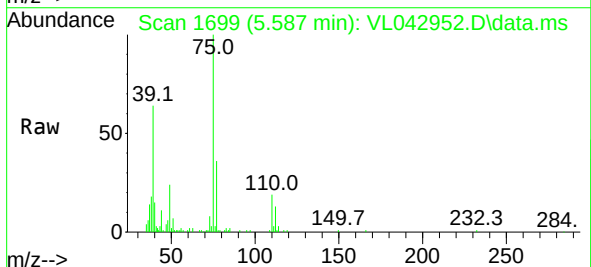
Tgt Ion: 75 Resp: 27025

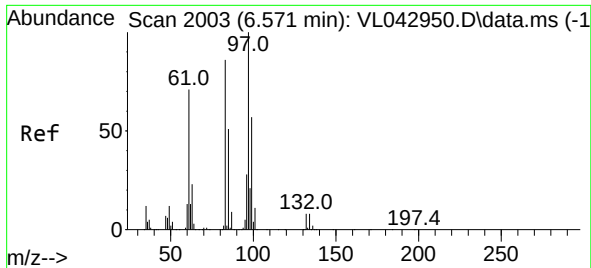
Ion Ratio Lower Upper

75 100

39 64.5 53.8 80.6

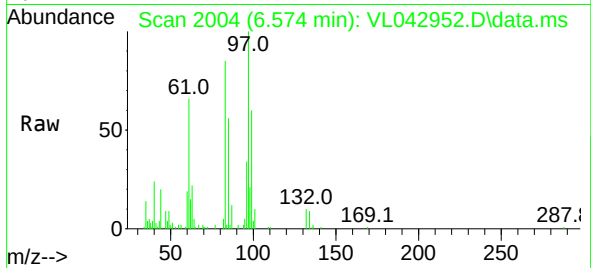
77 36.4 23.6 35.4#





#47
1,1,2-Trichloroethane
Concen: 1.041 ppbv
RT: 6.574 min Scan# 2003
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

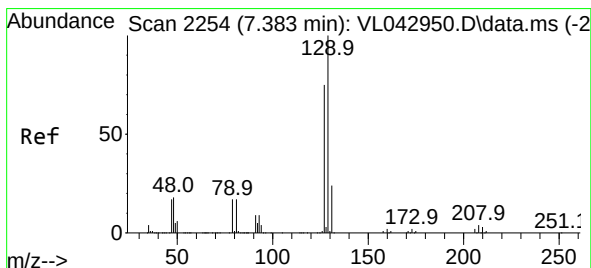
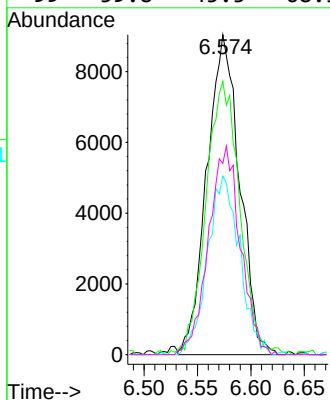
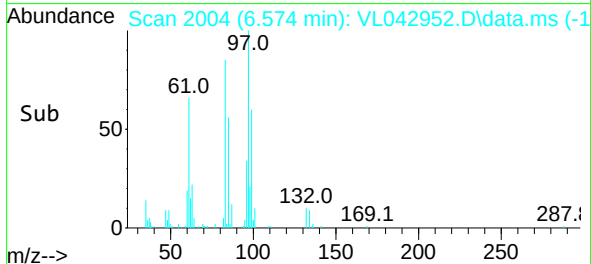
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 97 Resp: 1931
Ion Ratio Lower Upper
97 100
83 83.9 68.7 103.1
85 55.9 40.6 60.8
99 59.8 45.5 68.3

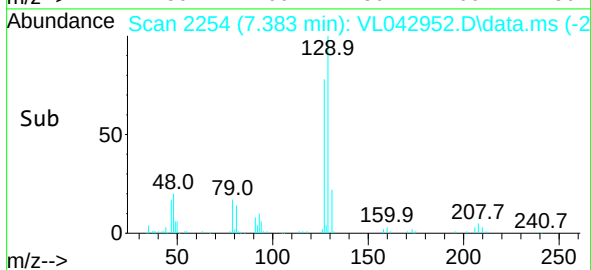
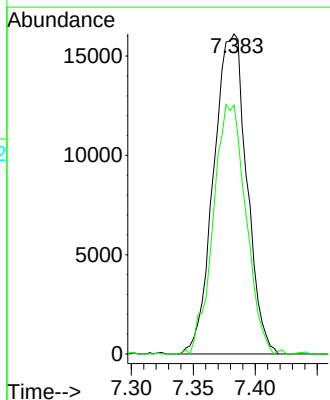
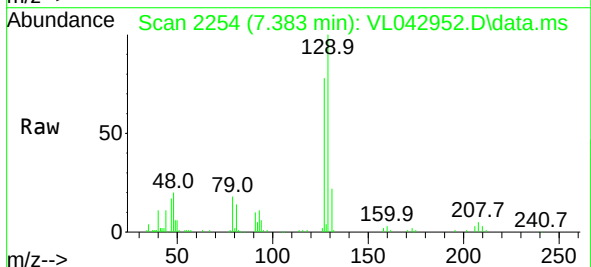
Manual Integrations
APPROVED

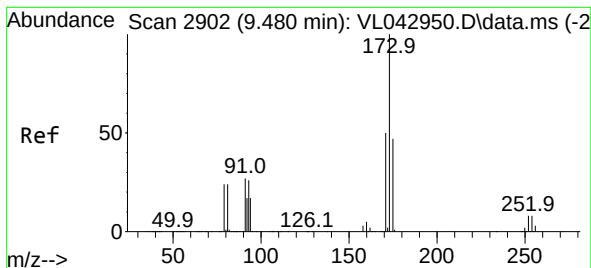
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#48
Dibromochloromethane
Concen: 1.012 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion:129 Resp: 30015
Ion Ratio Lower Upper
129 100
127 76.8 39.1 117.2





#49

Bromoform

Concen: 1.005 ppbv

RT: 9.477 min Scan# 2902

Delta R.T. -0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

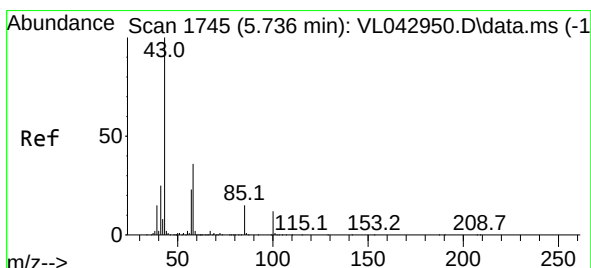
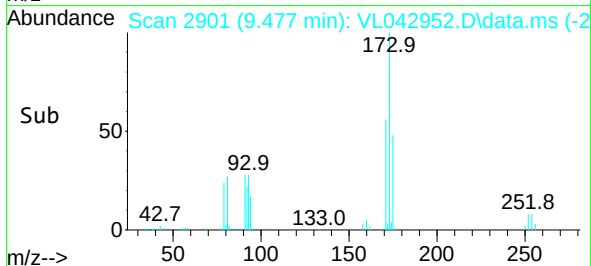
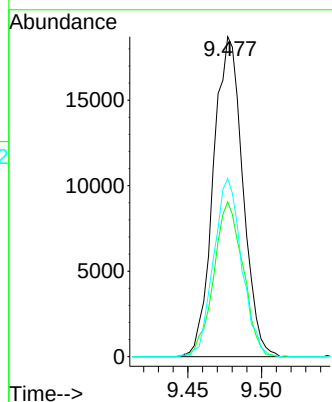
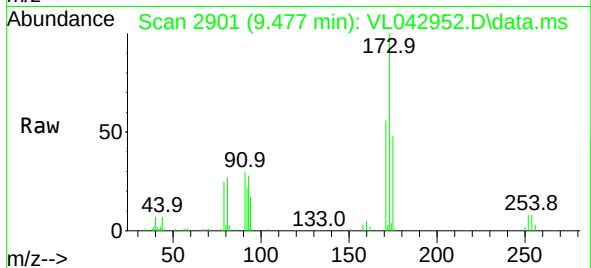
VSTDICC001

Tgt Ion:	173	Resp:	25929
Ion Ratio	Lower	Upper	
173	100		
175	48.2	37.9	56.9
171	53.2	41.1	61.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#50

4-Methyl-2-Pentanone

Concen: 1.007 ppbv

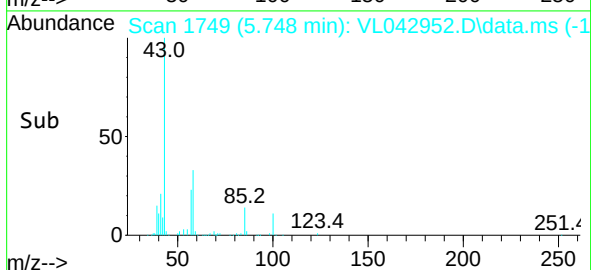
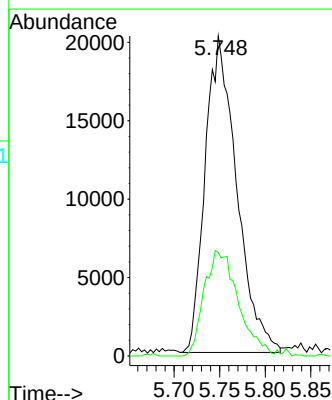
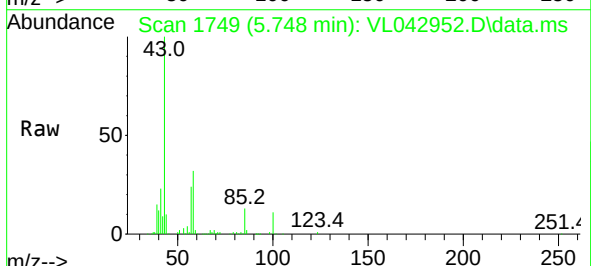
RT: 5.748 min Scan# 1749

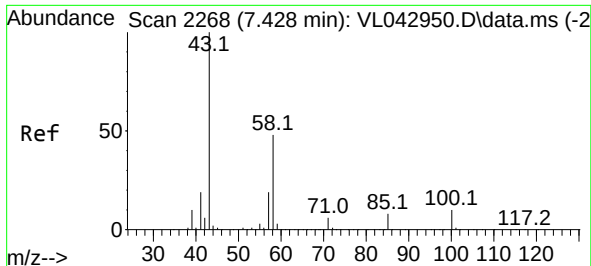
Delta R.T. 0.013 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

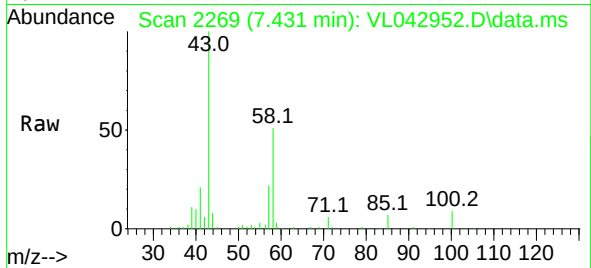
Tgt Ion:	43	Resp:	48546
Ion Ratio	Lower	Upper	
43	100		
58	36.5	28.4	42.6





#51
2-Hexanone
Concen: 1.034 ppbv
RT: 7.431 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

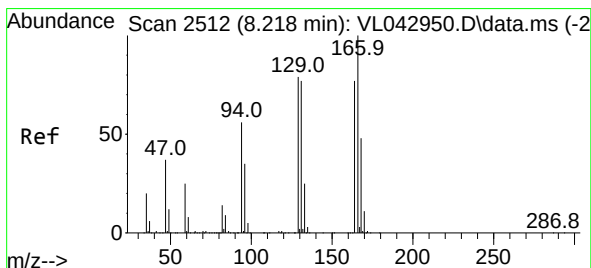
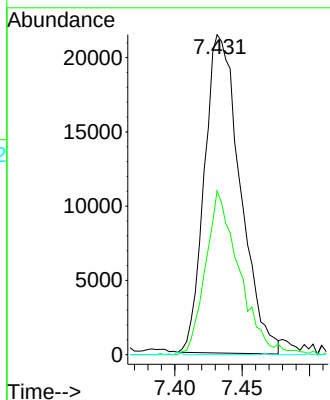
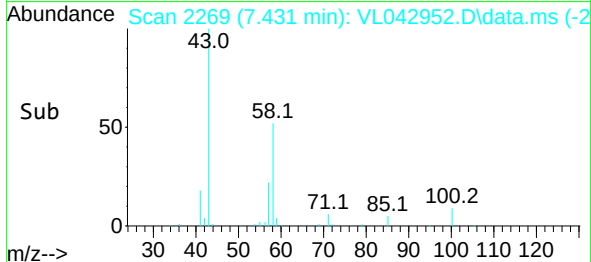
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 43 Resp: 3962
Ion Ratio Lower Upper
43 100
58 48.6 39.7 59.5
98 0.1 0.1 0.1

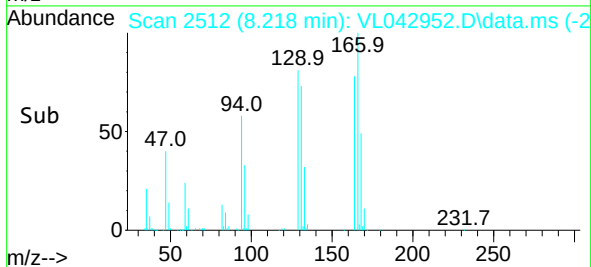
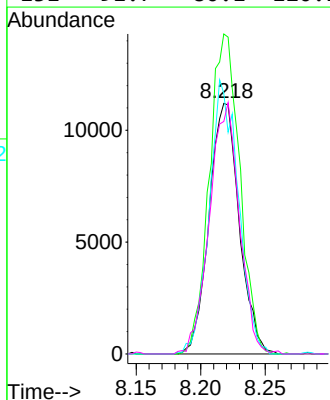
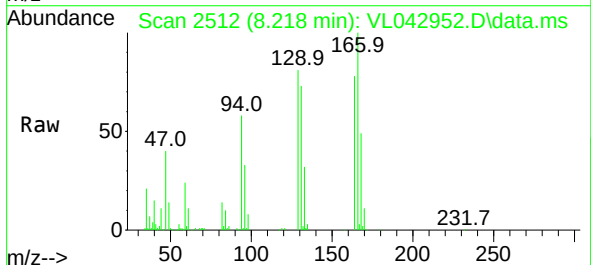
Manual Integrations
APPROVED

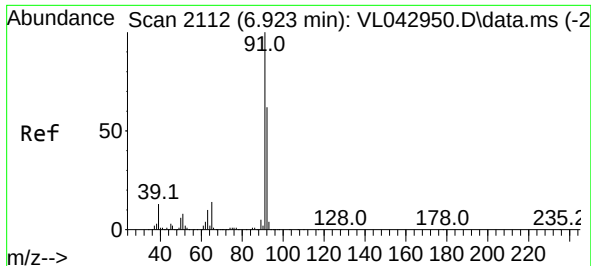
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#52
Tetrachloroethene
Concen: 0.978 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

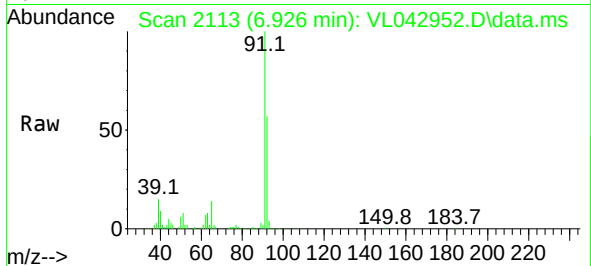
Tgt Ion:164 Resp: 18188
Ion Ratio Lower Upper
164 100
166 127.7 103.5 155.3
129 104.0 82.2 123.4
131 91.7 80.1 120.1





#53
Toluene
Concen: 1.023 ppbv
RT: 6.926 min Scan# 2112
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

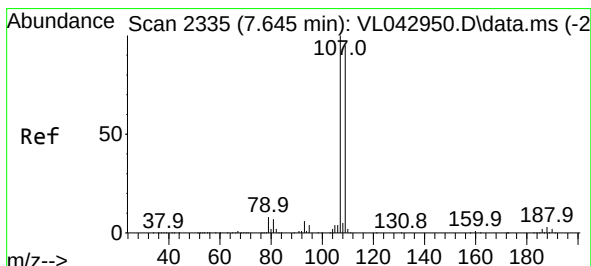
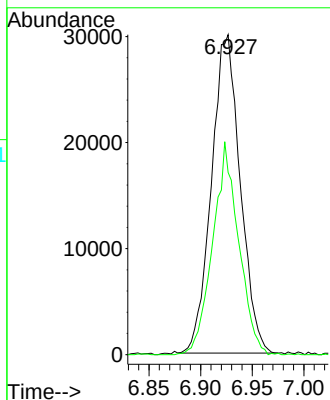
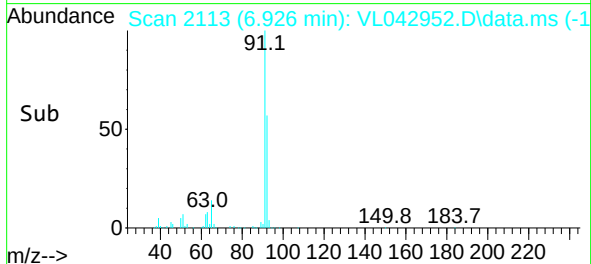
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



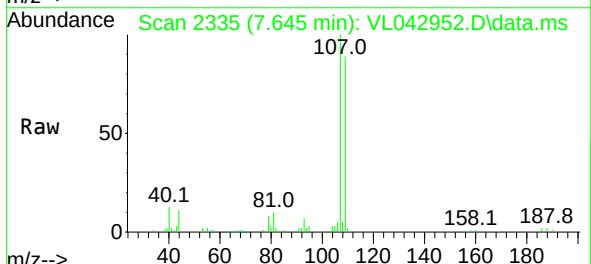
Tgt Ion: 91 Resp: 58200
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.2

Manual Integrations
APPROVED

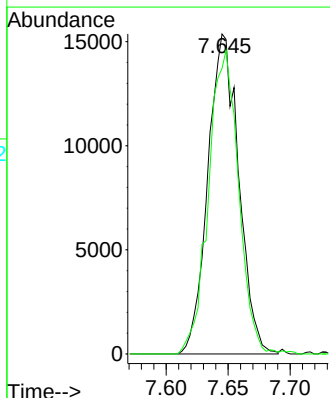
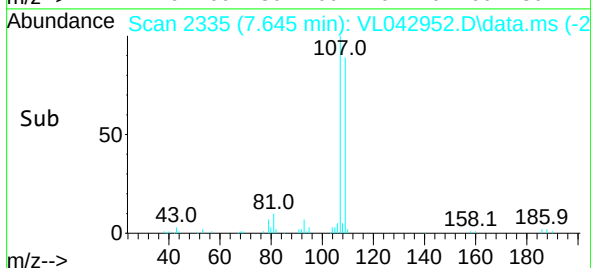
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

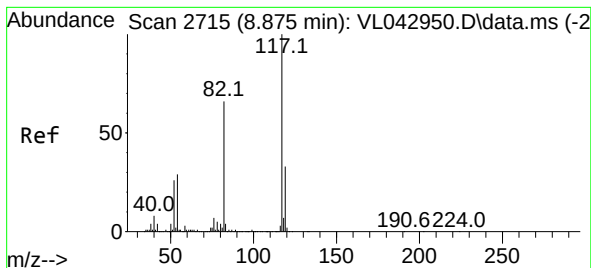


#54
1,2-Dibromoethane
Concen: 1.020 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48



Tgt Ion:107 Resp: 26608
Ion Ratio Lower Upper
107 100
109 89.3 75.8 113.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:117 Resp: 46926

Ion Ratio Lower Upper

117 100

82 63.2 52.8 79.2

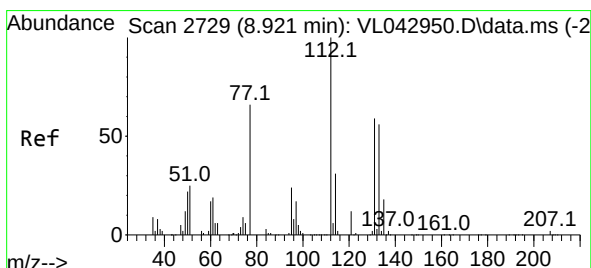
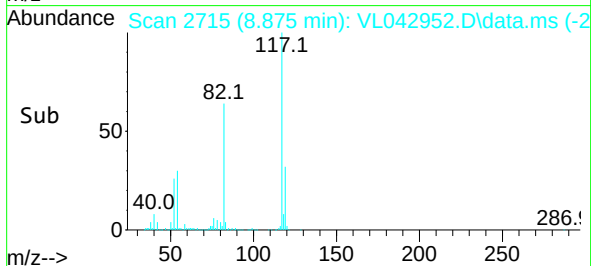
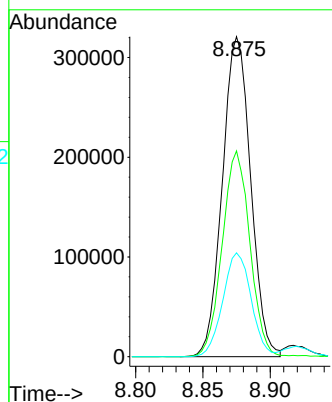
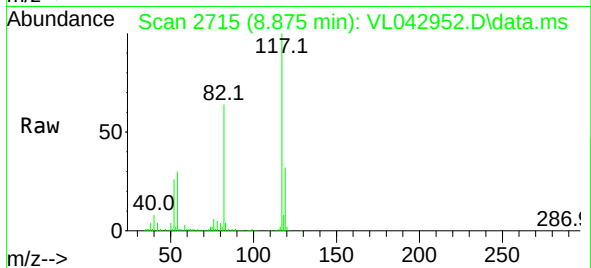
119 32.7 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 1.015 ppbv

RT: 8.920 min Scan# 2729

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

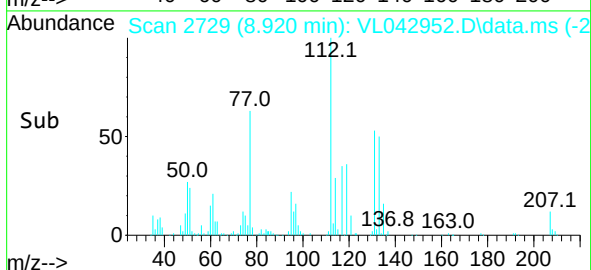
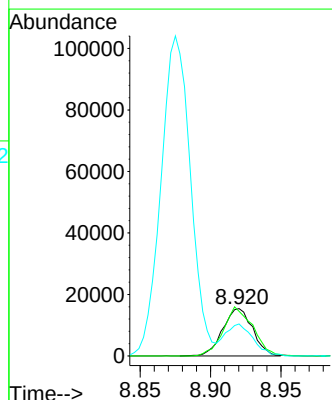
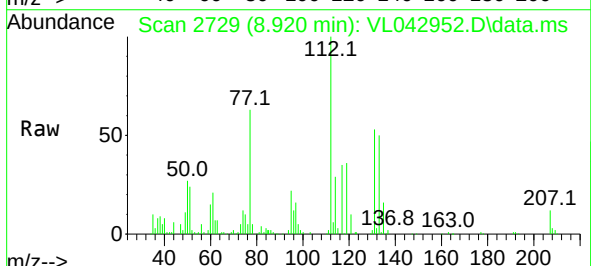
Tgt Ion:131 Resp: 22802

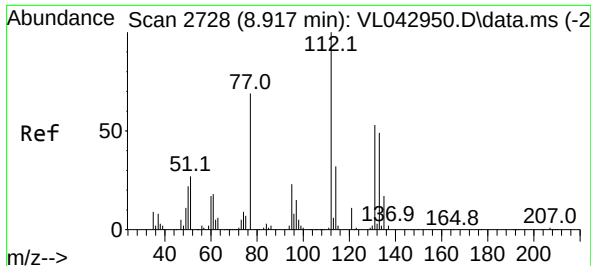
Ion Ratio Lower Upper

131 100

133 102.8 76.6 114.8

119 58.6 49.9 74.9





#57

Chlorobenzene

Concen: 1.071 ppbv

RT: 8.914 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

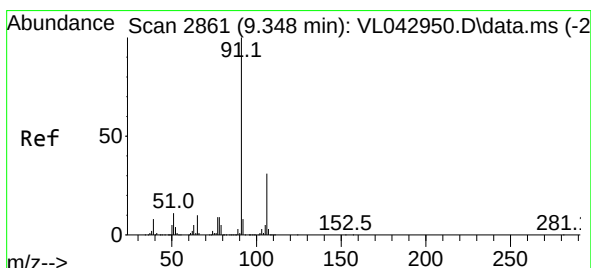
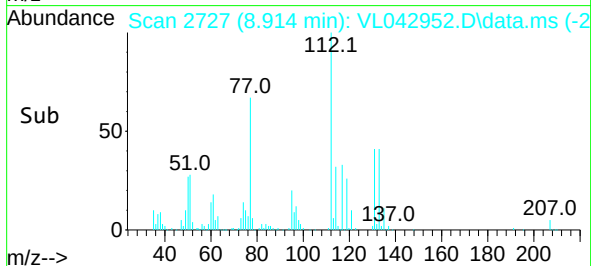
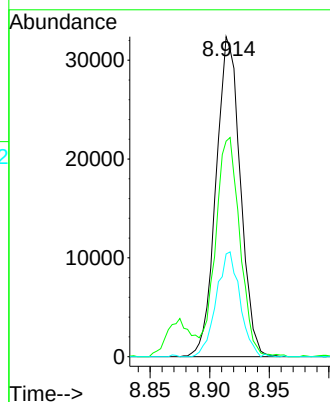
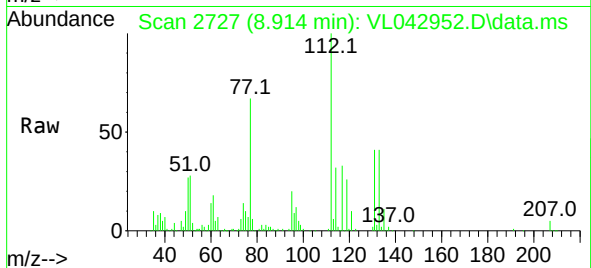
VSTDICC001

Tgt Ion:112	Resp:	4587
Ion Ratio	Lower	Upper
112	100	
77	66.9	55.7 83.5
114	32.1	28.6 35.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#58

Ethyl Benzene

Concen: 1.044 ppbv

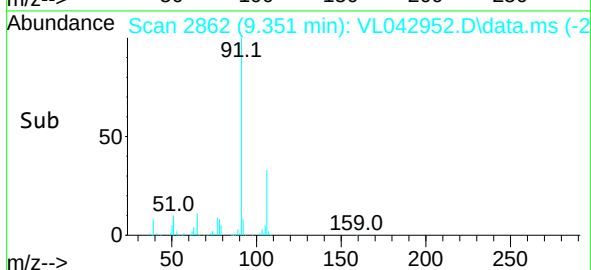
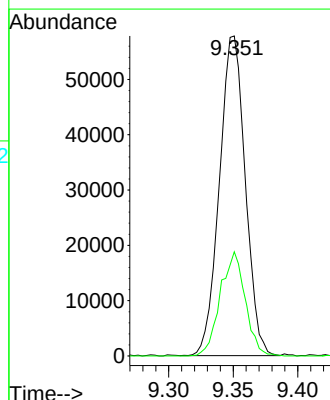
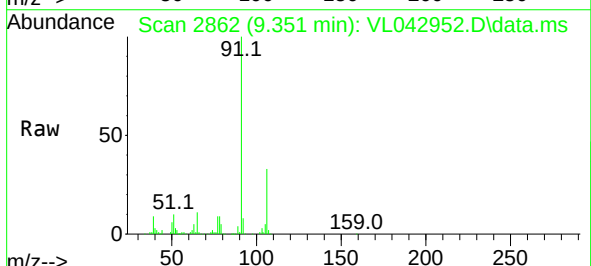
RT: 9.351 min Scan# 2862

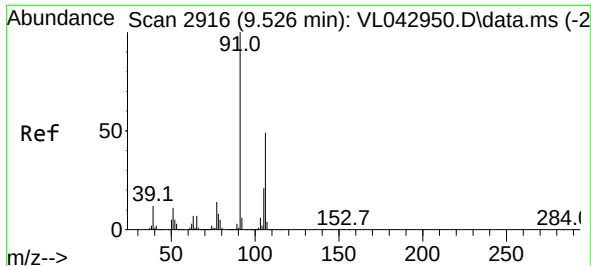
Delta R.T. 0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Tgt Ion: 91	Resp:	80473
Ion Ratio	Lower	Upper
91	100	
106	32.6	24.6 37.0





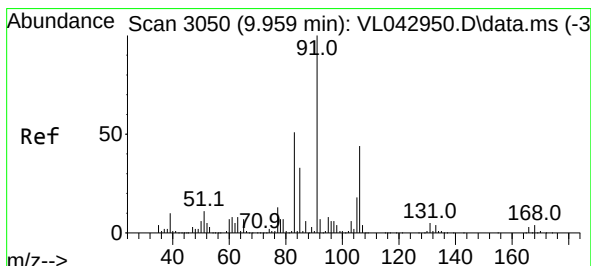
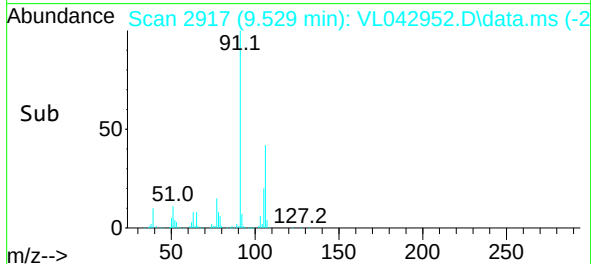
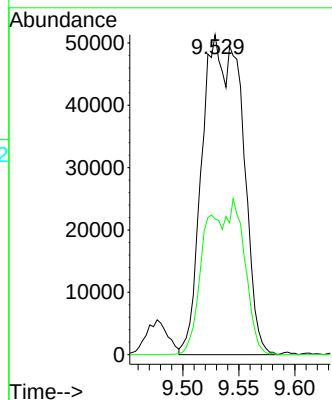
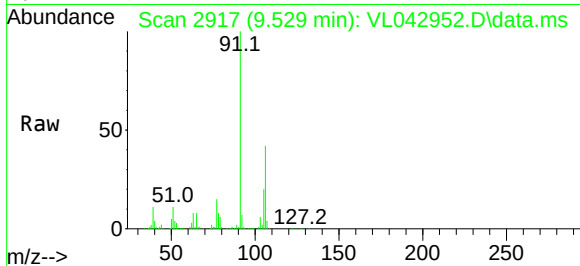
#59
m/p-Xylene
Concen: 2.108 ppbv m
RT: 9.529 min Scan# 2916
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 128139
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

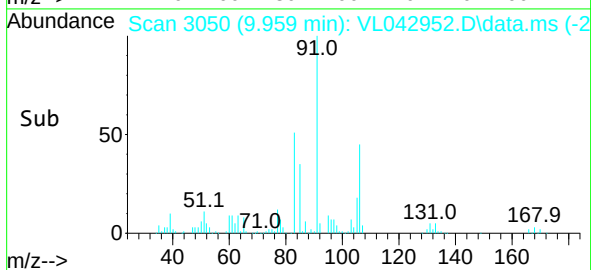
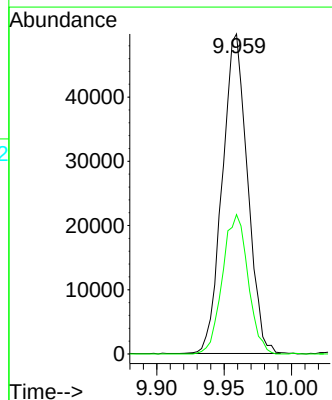
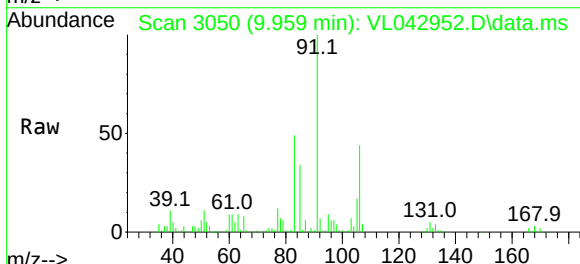
Manual Integrations
APPROVED

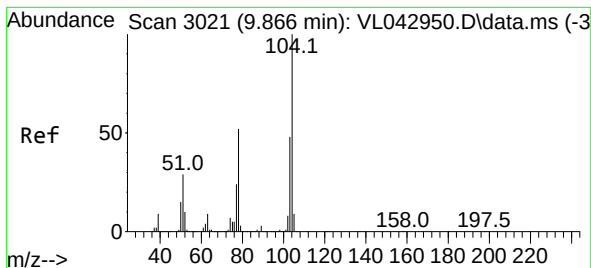
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#60
o-Xylene
Concen: 1.066 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 91 Resp: 64703
Ion Ratio Lower Upper
91 100
106 44.2 22.4 67.0





#61

Styrene

Concen: 1.012 ppbv

RT: 9.869 min Scan# 3021

Delta R.T. 0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

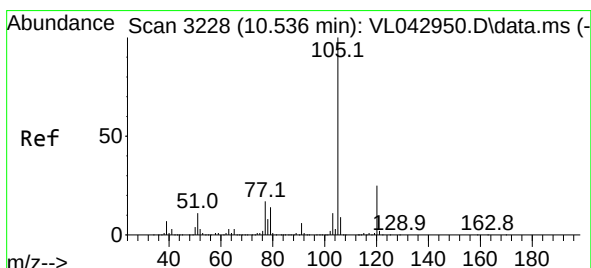
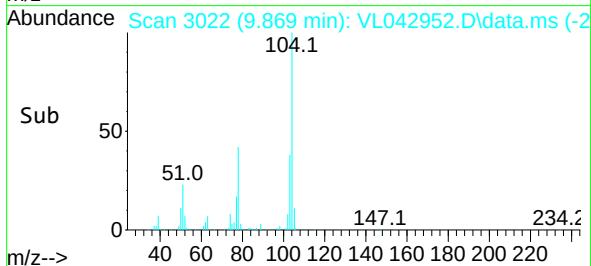
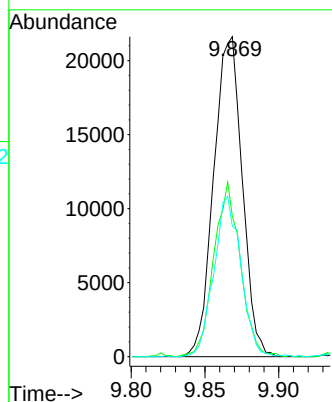
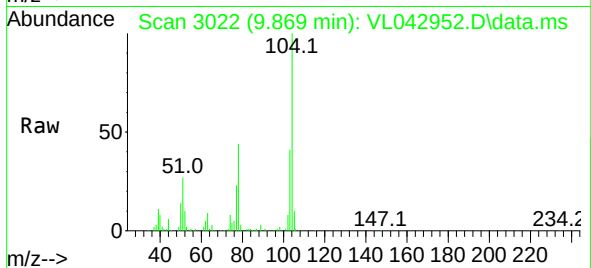
VSTDIC001

Tgt Ion:104	Resp:	2906
Ion Ratio	Lower	Upper
104	100	
78	50.8	39.9 59.9
103	47.7	36.9 55.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#62

Isopropylbenzene

Concen: 1.068 ppbv

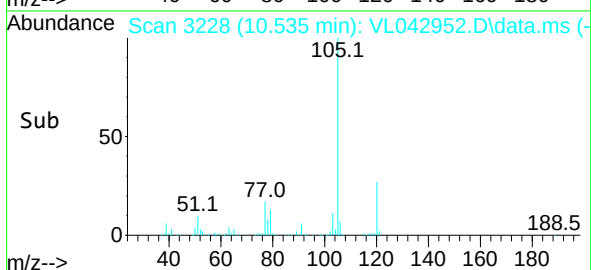
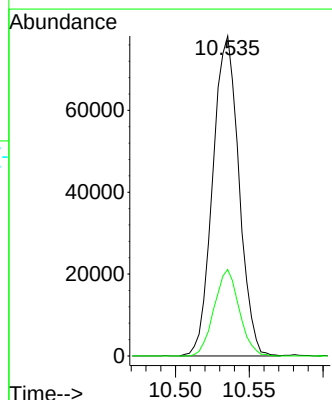
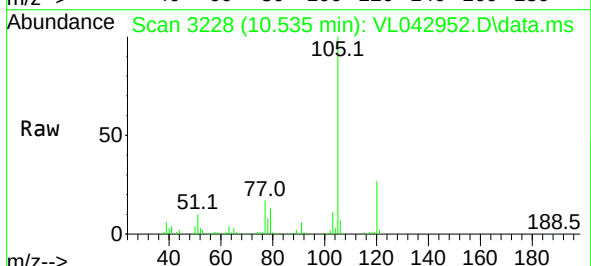
RT: 10.535 min Scan# 3228

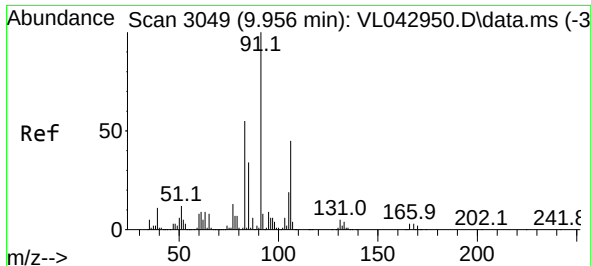
Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

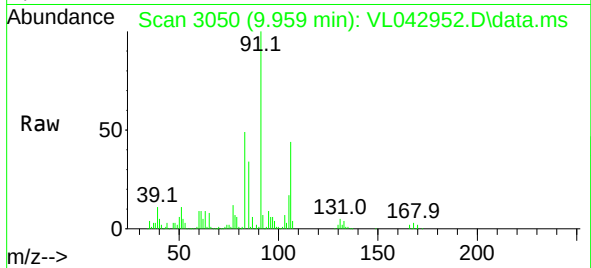
Tgt Ion:105	Resp:	96621
Ion Ratio	Lower	Upper
105	100	
120	25.8	20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 0.993 ppbv
RT: 9.959 min Scan# 3049
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

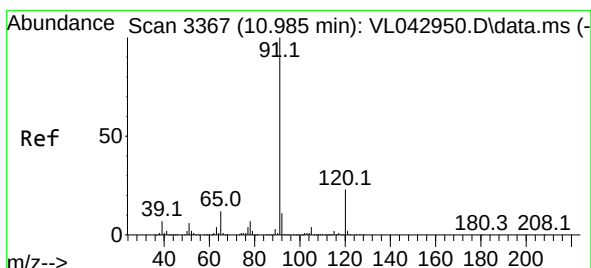
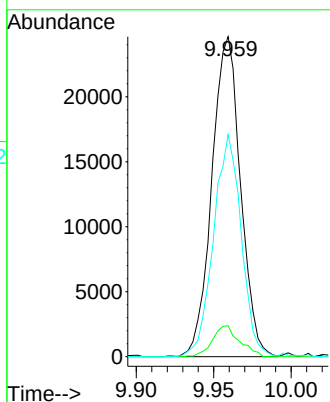
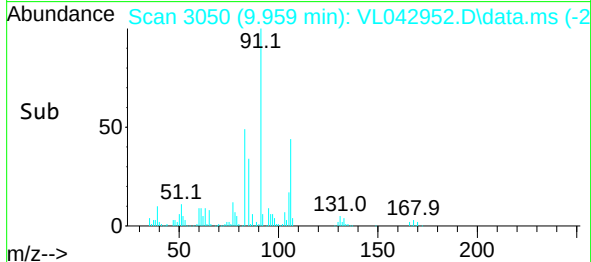
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001



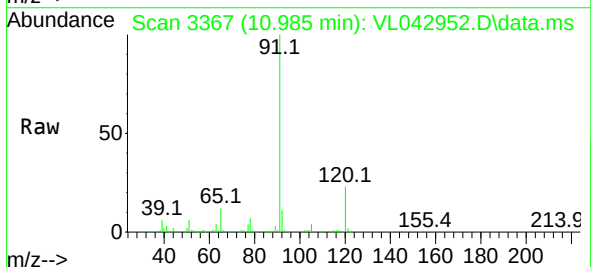
Tgt Ion: 83 Resp: 3169
Ion Ratio Lower Upper
83 100
131 9.2 4.8 14.4
85 67.4 32.2 96.6

Manual Integrations
APPROVED

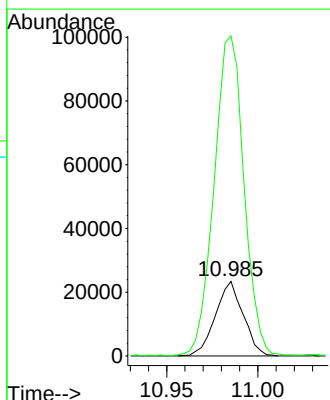
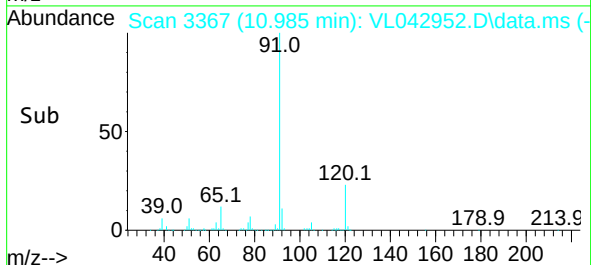
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

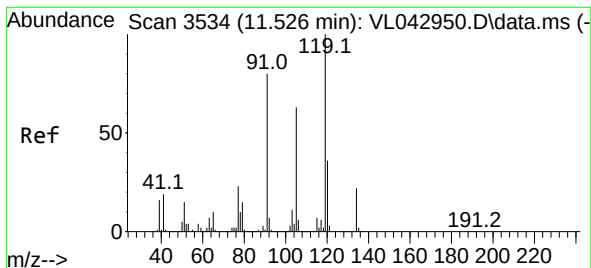


#64
n-propylbenzene
Concen: 1.049 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48



Tgt Ion:120 Resp: 24820
Ion Ratio Lower Upper
120 100
91 461.0 364.9 547.3





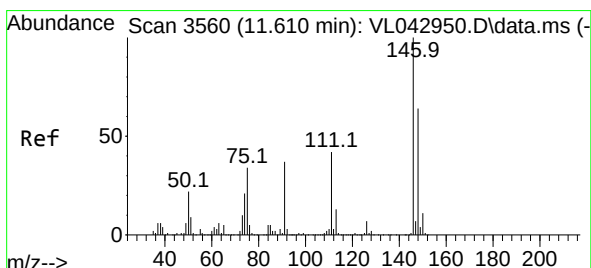
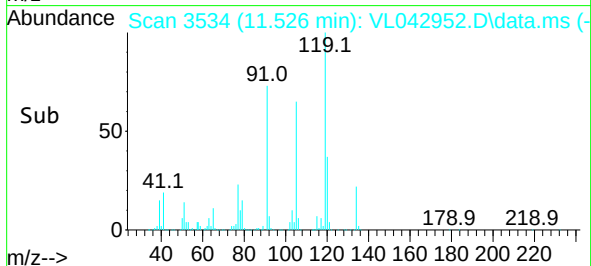
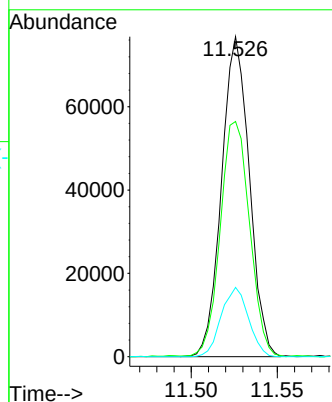
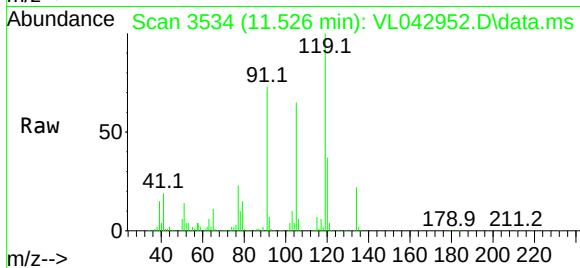
#65
tert-Butylbenzene
Concen: 1.072 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 119 Resp: 8630
Ion Ratio Lower Upper
119 100
91 78.1 63.1 94.7
134 21.2 17.0 25.6

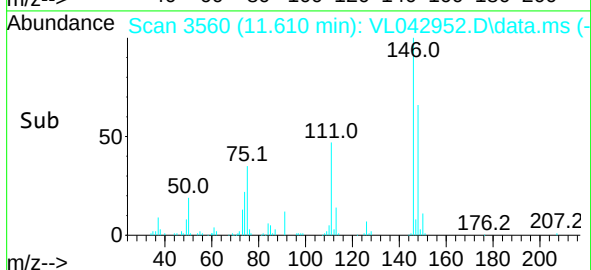
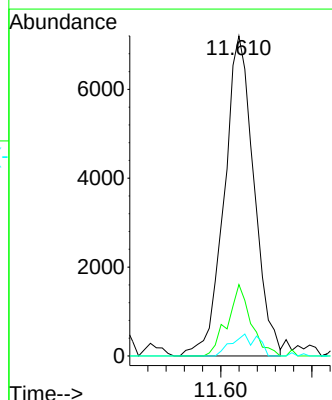
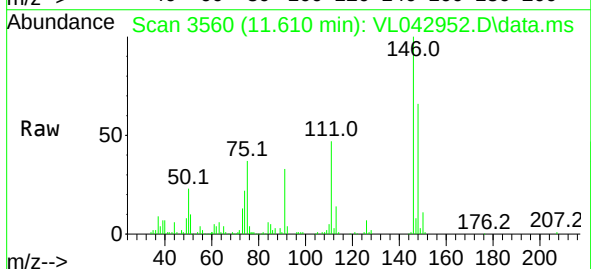
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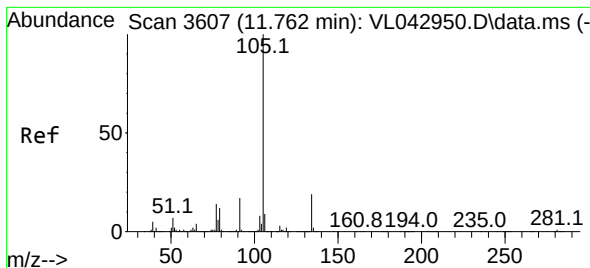
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#66
Benzyl Chloride
Concen: 0.964 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

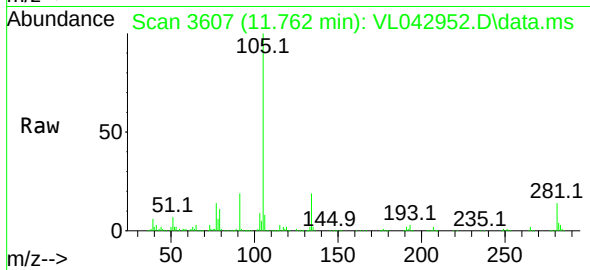
Tgt Ion: 91 Resp: 8140
Ion Ratio Lower Upper
91 100
126 17.9 14.6 21.8
128 6.2 5.0 7.4





#67
 sec-Butylbenzene
 Concen: 1.070 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

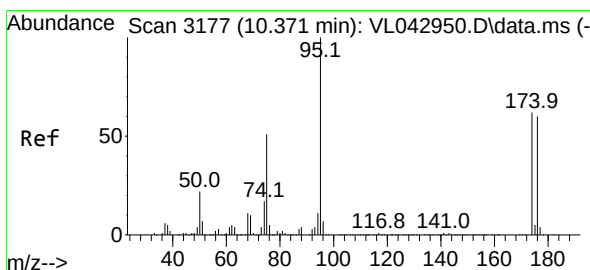
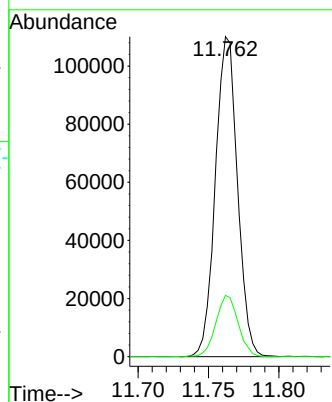
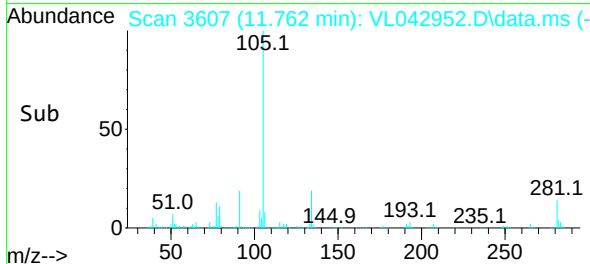
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



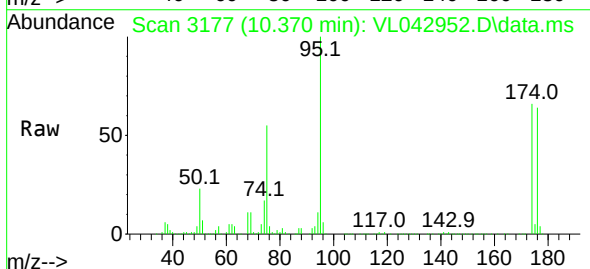
Tgt Ion:105 Resp: 120070
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.7 23.5

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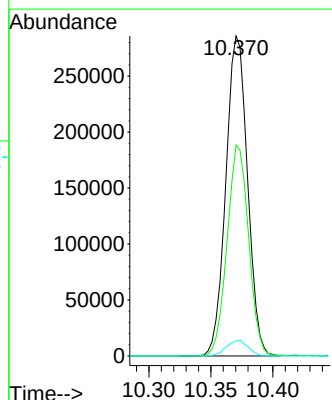
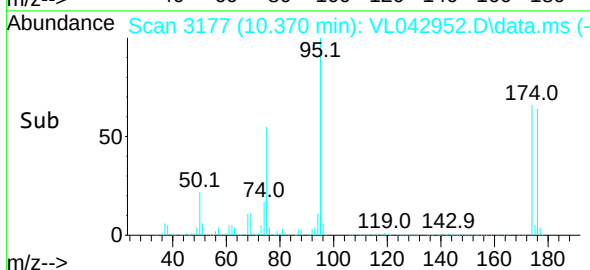
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

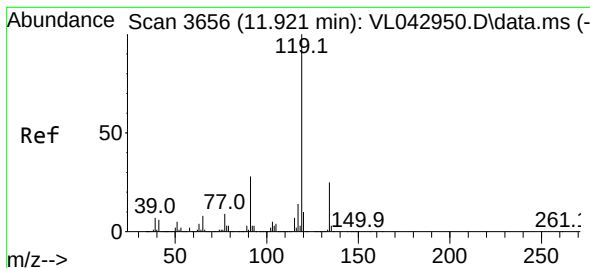


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.960 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48



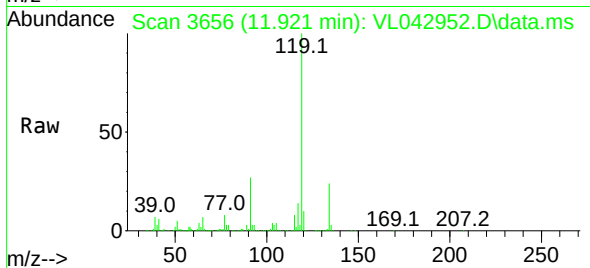
Tgt Ion: 95 Resp: 348878
 Ion Ratio Lower Upper
 95 100
 174 65.3 51.4 77.2
 175 4.9 4.0 6.0





#69
p-Isopropyltoluene
Concen: 1.074 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

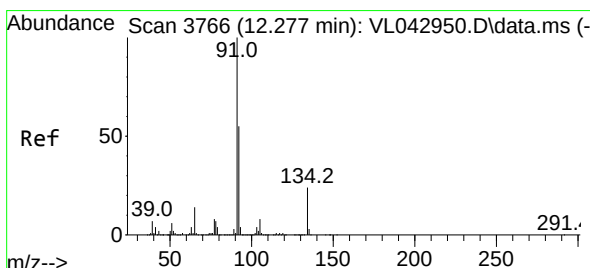
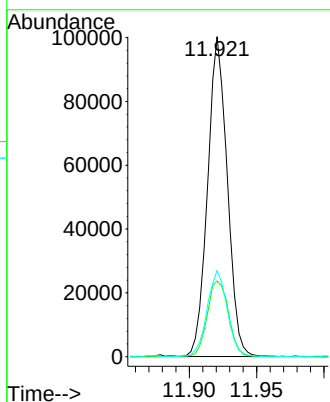
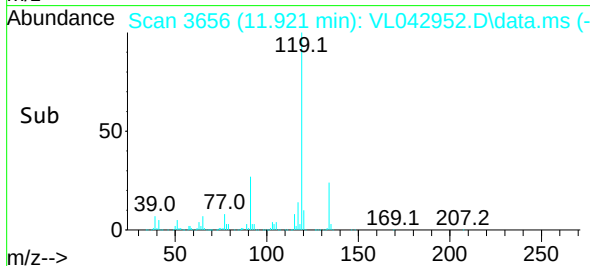
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



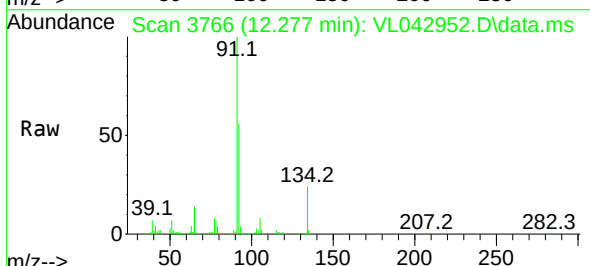
Tgt Ion: 119 Resp: 101749
Ion Ratio Lower Upper
119 100
134 25.8 21.0 31.4
91 28.3 22.3 33.5

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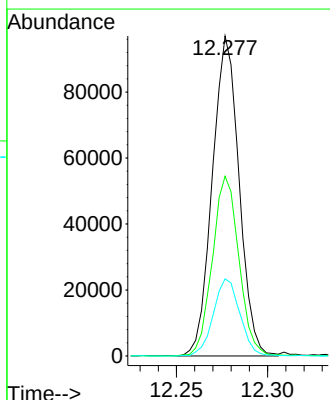
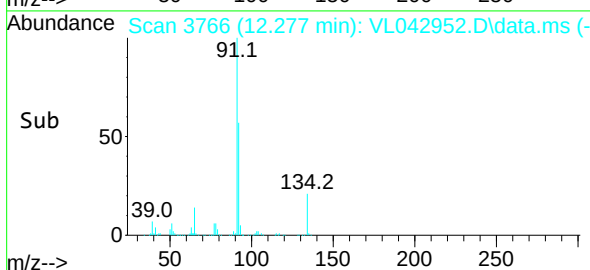
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

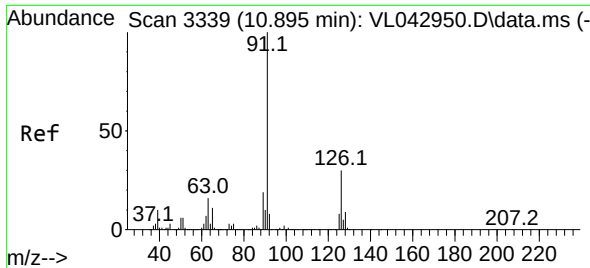


#70
n-Butylbenzene
Concen: 1.069 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48



Tgt Ion: 91 Resp: 98908
Ion Ratio Lower Upper
91 100
92 56.0 44.0 66.0
134 24.0 19.4 29.2





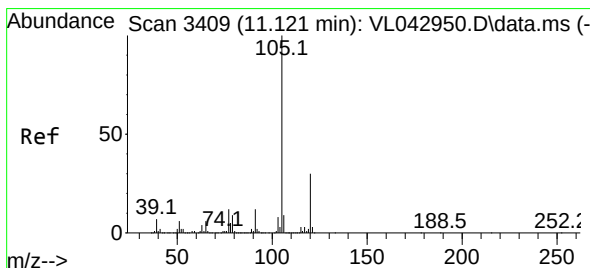
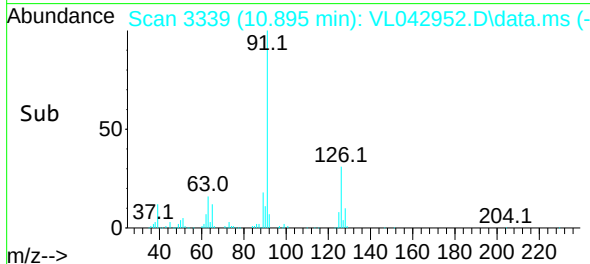
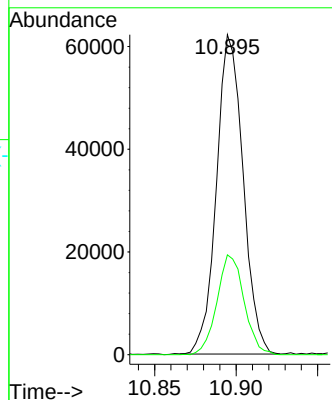
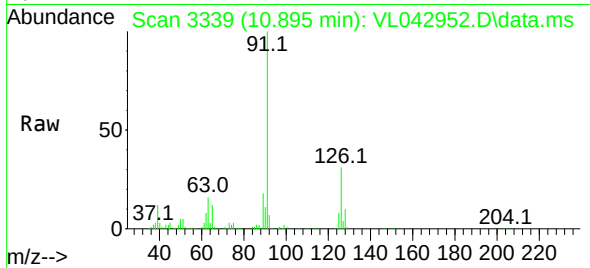
#71
2-Chlorotoluene
Concen: 1.033 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 7057
Ion Ratio Lower Upper
91 100
126 31.8 12.3 49.3

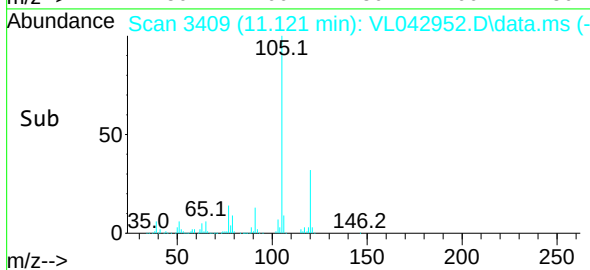
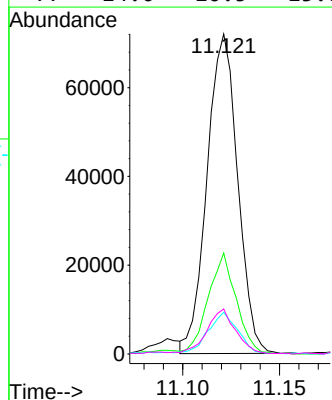
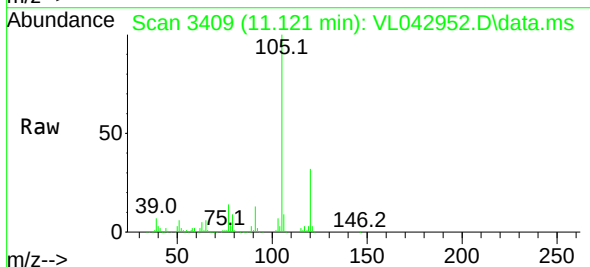
Manual Integrations
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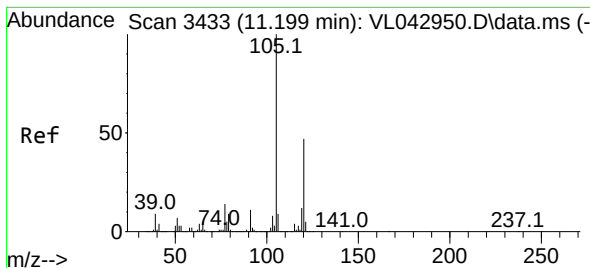
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#72
4-Ethyltoluene
Concen: 1.040 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion:105 Resp: 79095
Ion Ratio Lower Upper
105 100
120 30.3 24.2 36.2
91 13.3 10.0 15.0
77 14.0 10.5 15.7





#73

1,3,5-Trimethylbenzene

Concen: 1.024 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 63174

Ion Ratio Lower Upper

105 100

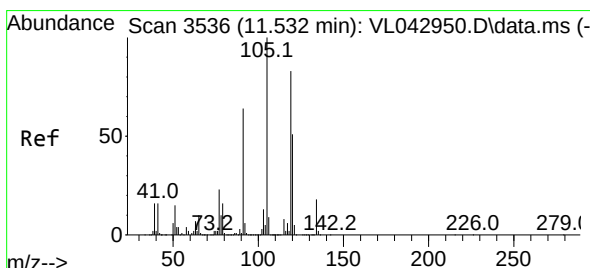
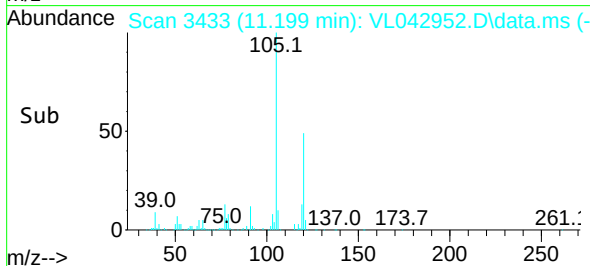
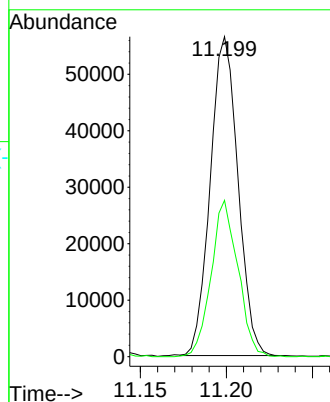
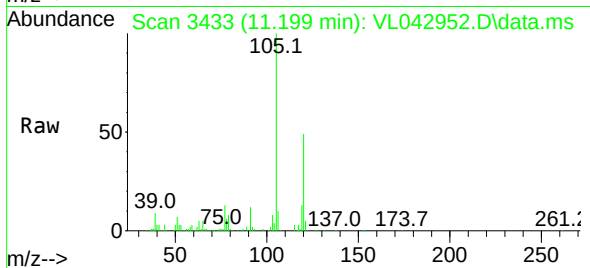
120 48.8 38.0 57.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#74

1,2,4-Trimethylbenzene

Concen: 1.049 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Tgt Ion:105 Resp: 71411

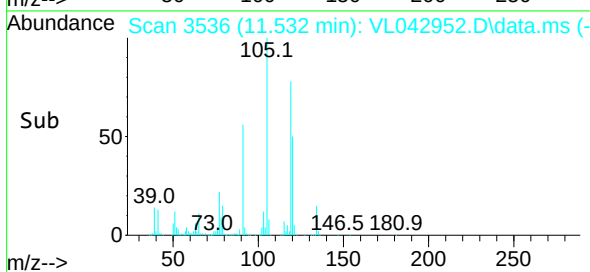
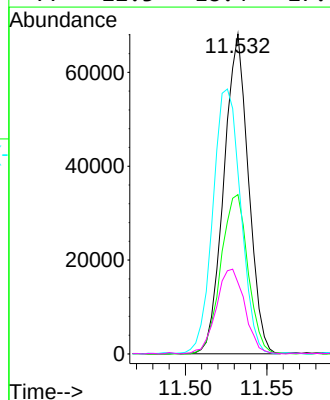
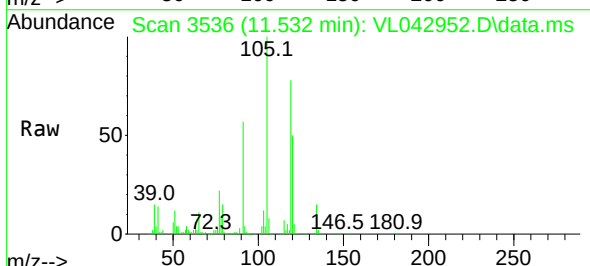
Ion Ratio Lower Upper

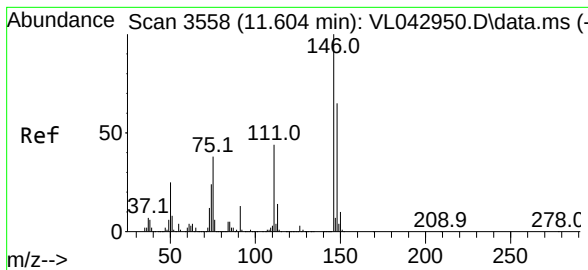
105 100

120 49.9 40.9 61.3

91 56.6 51.2 76.8

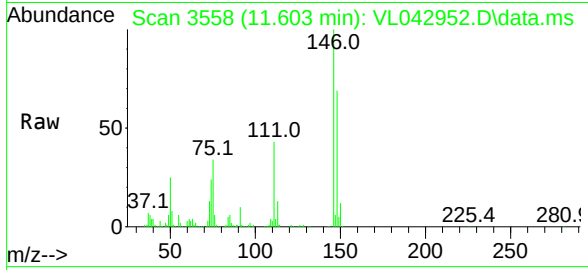
77 22.3 18.4 27.6





#75
1,3-Dichlorobenzene
Concen: 1.060 ppbv
RT: 11.603 min Scan# 3558
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

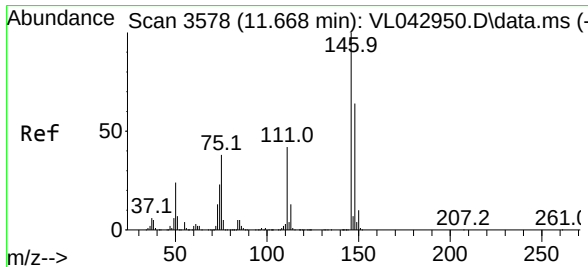
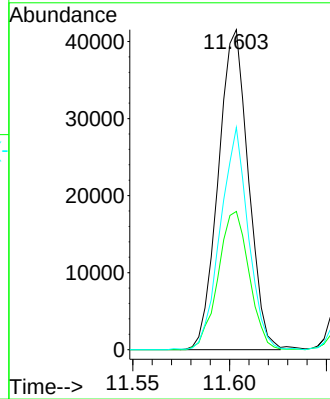
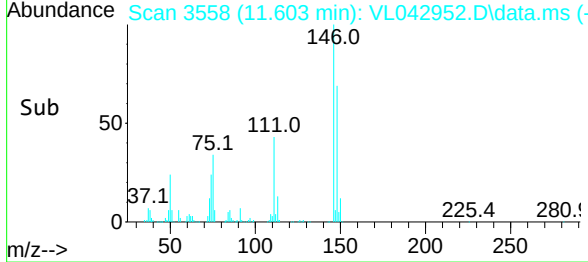
Instrument : MSVOA_L
ClientSampleId : VSTDIC001



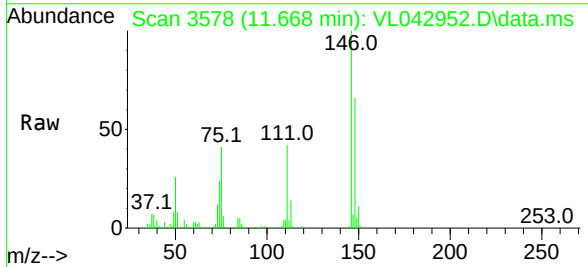
Tgt Ion:146 Resp: 44769
Ion Ratio Lower Upper
146 100
111 44.6 22.3 66.9
148 64.7 31.9 95.5

Manual Integrations
APPROVED

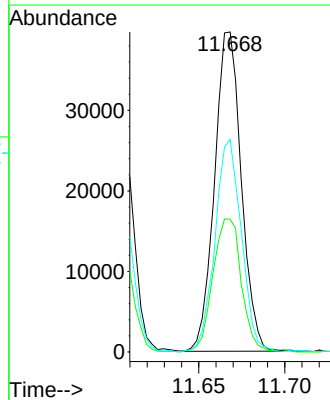
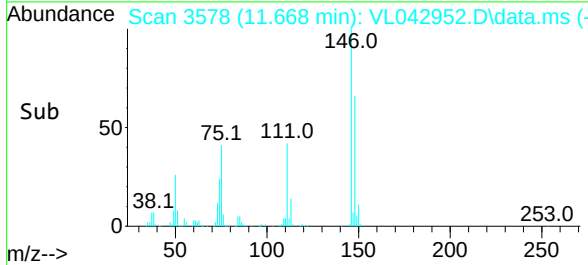
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

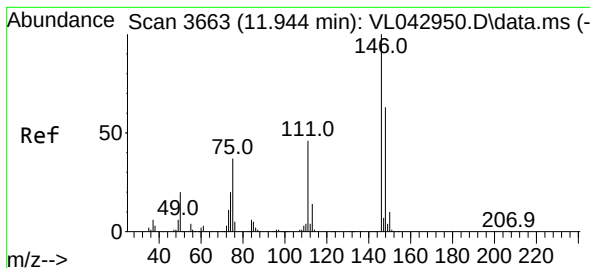


#76
1,4-Dichlorobenzene
Concen: 1.022 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48



Tgt Ion:146 Resp: 42879
Ion Ratio Lower Upper
146 100
111 44.5 21.5 64.5
148 66.4 31.9 95.5





#77

1,2-Dichlorobenzene

Concen: 1.068 ppbv

RT: 11.940 min Scan# 3663

Delta R.T. -0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

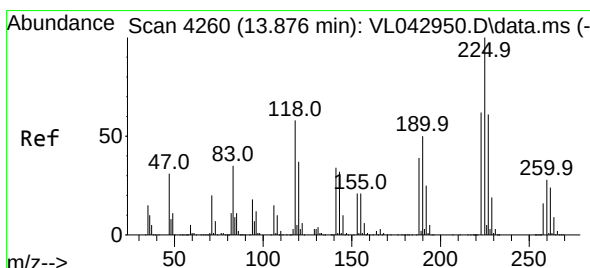
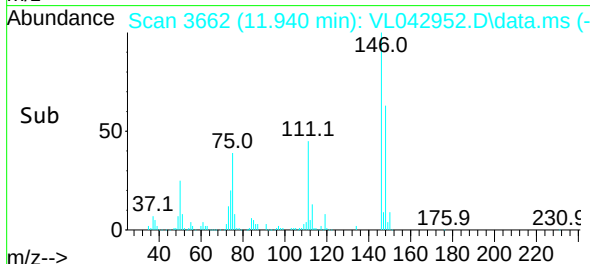
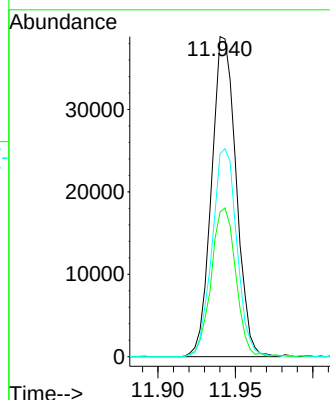
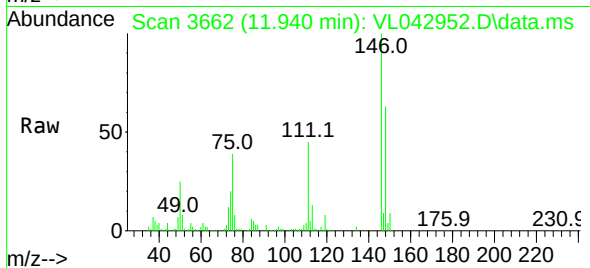
VSTDIC001

Tgt Ion:	146	Resp:	4291
Ion Ratio	Lower	Upper	
146	100		
111	46.6	23.1	69.3
148	65.9	32.0	96.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#78

Hexachloro-1,3-Butadiene

Concen: 1.107 ppbv

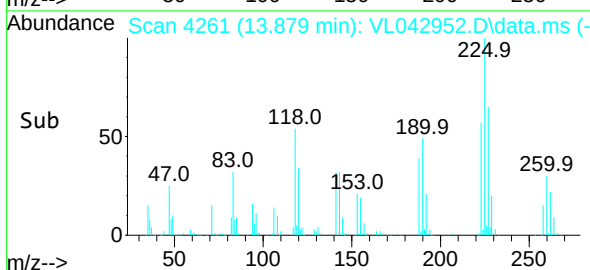
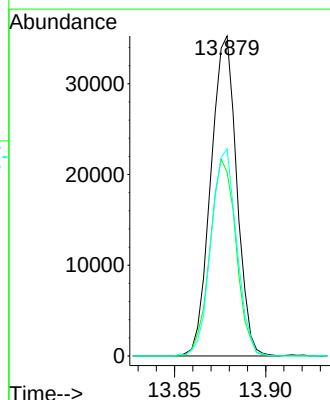
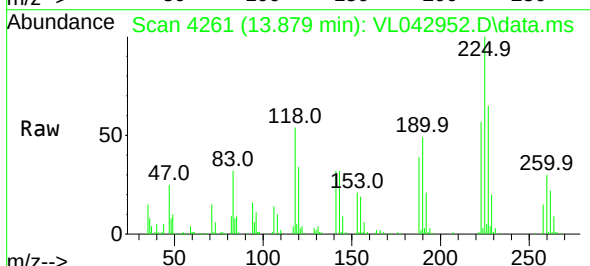
RT: 13.879 min Scan# 4261

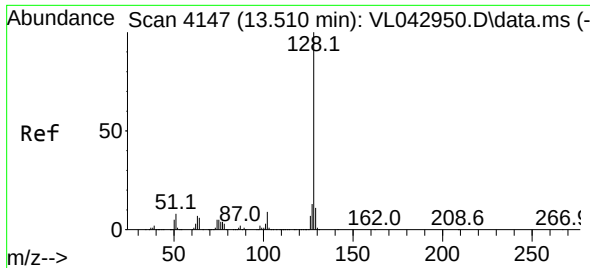
Delta R.T. 0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

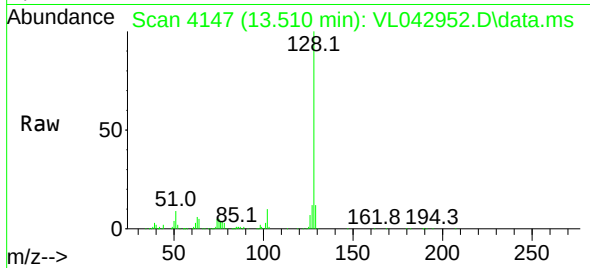
Tgt Ion:	225	Resp:	34798
Ion Ratio	Lower	Upper	
225	100		
223	62.0	50.1	75.1
227	64.0	50.4	75.6





#79
Naphthalene
Concen: 1.028 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

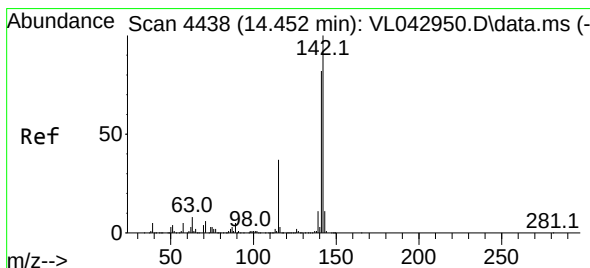
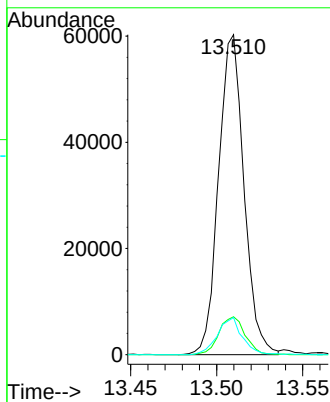
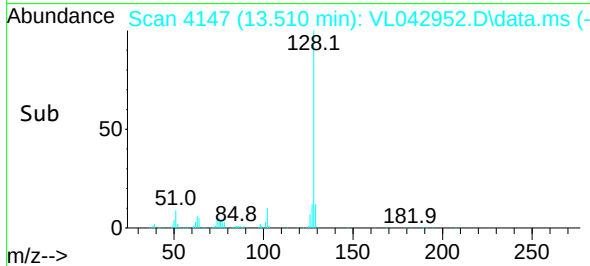
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



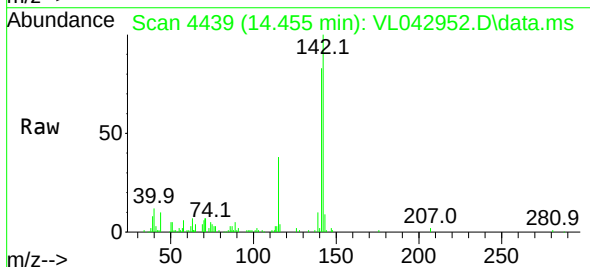
Tgt Ion:128 Resp: 61925
Ion Ratio Lower Upper
128 100
127 11.8 10.6 15.8
129 11.6 9.0 13.6

Manual Integrations
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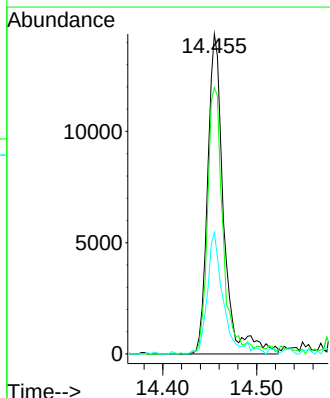
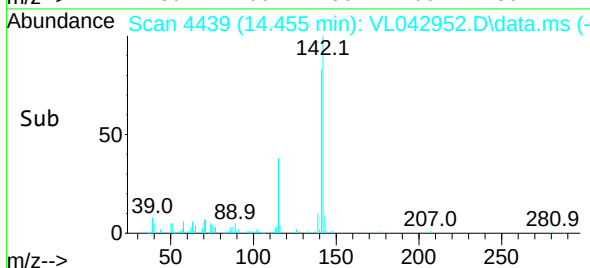
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

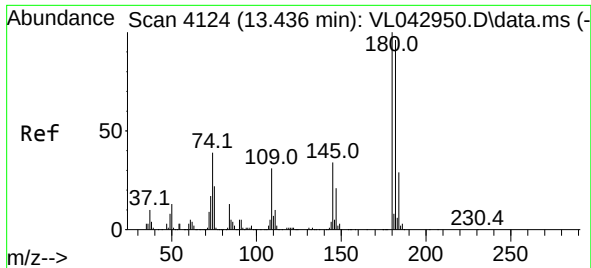


#80
Naphthalene,2-methyl-
Concen: 0.920 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48



Tgt Ion:142 Resp: 17116
Ion Ratio Lower Upper
142 100
141 83.8 65.1 97.7
115 38.5 28.9 43.3





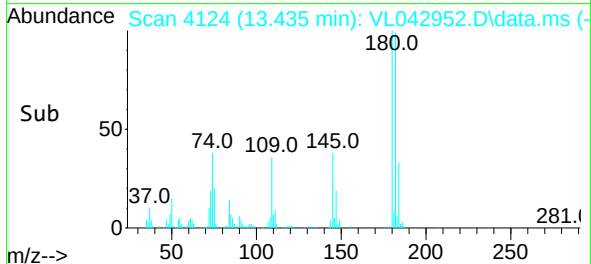
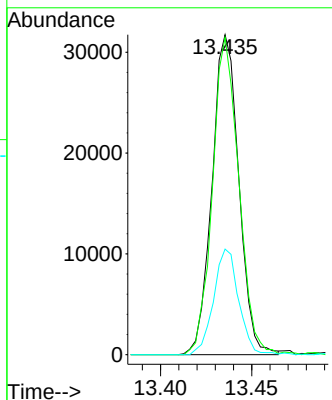
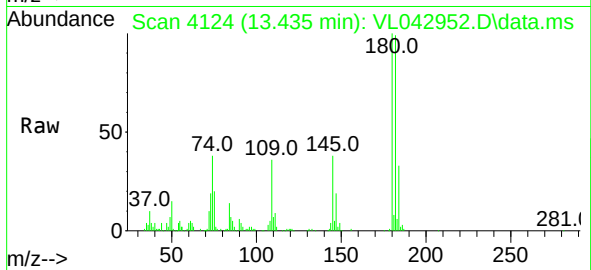
#81
 1,2,4-Trichlorobenzene
 Concen: 1.007 ppbv
 RT: 13.435 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion:180 Resp: 3241
 Ion Ratio Lower Upper
 180 100
 182 98.0 75.7 113.5
 184 31.2 23.9 35.9

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042953.D
 Acq On : 22 Sep 2025 11:22
 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 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:11:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	165435	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	509306	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	464091	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 347374 10.027 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	11508	0.517	ppbv	96
3) Chlorodifluoromethane	1.476	51	14744	0.532	ppbv #	90
4) Chloromethane	1.534	50	5729	0.569	ppbv	97
5) Vinyl Chloride	1.580	62	4373	0.480	ppbv	93
6) Bromomethane	1.667	94	1850	0.576	ppbv	100
7) Chloroethane	1.703	64	1936	0.548	ppbv #	87
8) Dichlorotetrafluoroethane	1.554	85	10149	0.534	ppbv	96
9) Propene	1.483	41	6482	0.537	ppbv	94
10) Heptane	4.978	43	17388m	0.537	ppbv	
11) Trichlorofluoromethane	1.877	101	11200	0.522	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	9346	0.538	ppbv	100
13) Ethanol	1.719	45	629m	0.544	ppbv	
14) Bromoethene	1.784	108	3553	0.541	ppbv #	84
15) Acetone	1.835	43	12326	0.572	ppbv #	86
16) 1,3-Butadiene	1.609	39	6215	0.611	ppbv #	82
17) tert-Butyl alcohol	2.043	59	13128	0.555	ppbv #	77
18) 1,1-Dichloroethene	2.033	96	4543	0.565	ppbv	93
19) Isopropyl Alcohol	1.887	45	7431	0.574	ppbv #	46
20) Methylene Chloride	2.062	84	6881	0.430	ppbv	87
21) Allyl Chloride	2.098	41	7481	0.499	ppbv #	69
22) trans-1,2-Dichloroethene	2.337	96	4869m	0.533	ppbv	
23) Vinyl Acetate	2.460	43	18264	0.593	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	9484	0.529	ppbv #	98
25) Ethyl Acetate	2.836	43	28162	0.517	ppbv #	95
26) Hexane	2.823	57	13406	0.540	ppbv	98
27) Carbon Disulfide	2.149	76	11535	0.518	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	7886	0.611	ppbv #	65
29) Chloroform	2.845	83	17188	0.530	ppbv	100
30) Cyclohexane	3.855	84	10856	0.523	ppbv	93
31) cis-1,2-Dichloroethene	2.719	61	11939	0.513	ppbv	99
32) 1,1,1-Trichloroethane	3.366	97	16684	0.474	ppbv	96
34) 2-Butanone	2.557	43	18948	0.531	ppbv	96
35) Carbon Tetrachloride	3.761	117	16799	0.513	ppbv	94
36) Benzene	3.654	78	24807	0.519	ppbv #	95
37) 1,2-Dichloroethane	3.217	62	12788	0.508	ppbv	100
38) Trichloroethene	4.544	130	12243	0.515	ppbv #	88
39) 1,2-Dichloropropane	4.315	63	8772	0.502	ppbv #	86
40) 1,4-Dioxane	4.599	88	4405m	0.543	ppbv	
41) Tetrahydrofuran	3.059	42	10871	0.530	ppbv	95
42) Bromodichloromethane	4.486	83	17552	0.501	ppbv	96
43) Methyl Methacrylate	4.881	69	10330m	0.532	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	43414m	0.525	ppbv	
45) t-1,3-Dichloropropene	6.409	75	10262m	0.492	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042953.D
 Acq On : 22 Sep 2025 11:22
 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 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:11:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	13304m	0.500	ppbv	
47) 1,1,2-Trichloroethane	6.580	97	9725m	0.527	ppbv	
48) Dibromochloromethane	7.383	129	14563	0.493	ppbv	99
49) Bromoform	9.480	173	12136	0.473	ppbv	97
50) 4-Methyl-2-Pentanone	5.761	43	23639	0.493	ppbv	95
51) 2-Hexanone	7.441	43	18322	0.480	ppbv #	97
52) Tetrachloroethene	8.218	164	9073m	0.490	ppbv	
53) Toluene	6.927	91	29404	0.519	ppbv	99
54) 1,2-Dibromoethane	7.648	107	13233	0.510	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.924	131	11535	0.519	ppbv #	1
57) Chlorobenzene	8.920	112	22463	0.530	ppbv	91
58) Ethyl Benzene	9.351	91	38459	0.505	ppbv	96
59) m/p-Xylene	9.545	91	61801m	1.028	ppbv	
60) o-Xylene	9.959	91	30976	0.516	ppbv	98
61) Styrene	9.865	104	14048	0.495	ppbv	98
62) Isopropylbenzene	10.535	105	46640	0.521	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	15974	0.506	ppbv	97
64) n-propylbenzene	10.985	120	12333	0.527	ppbv	100
65) tert-Butylbenzene	11.529	119	42595	0.535	ppbv	99
66) Benzyl Chloride	11.613	91	3942m	0.472	ppbv	
67) sec-Butylbenzene	11.765	105	58190	0.525	ppbv	99
69) p-Isopropyltoluene	11.924	119	48855	0.521	ppbv	100
70) n-Butylbenzene	12.280	91	44764	0.489	ppbv	100
71) 2-Chlorotoluene	10.898	91	35797	0.530	ppbv	96
72) 4-Ethyltoluene	11.125	105	39803	0.529	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	30932	0.507	ppbv	96
74) 1,2,4-Trimethylbenzene	11.532	105	35601	0.529	ppbv	97
75) 1,3-Dichlorobenzene	11.607	146	21307	0.510	ppbv	98
76) 1,4-Dichlorobenzene	11.668	146	21404	0.516	ppbv	98
77) 1,2-Dichlorobenzene	11.943	146	20279	0.510	ppbv	95
78) Hexachloro-1,3-Butadiene	13.879	225	17515	0.563	ppbv	98
79) Naphthalene	13.510	128	25577	0.429	ppbv	97
80) Naphthalene,2-methyl-	14.458	142	8906	0.484	ppbv	92
81) 1,2,4-Trichlorobenzene	13.439	180	12920	0.406	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042953.D
Acq On : 22 Sep 2025 11:22
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 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

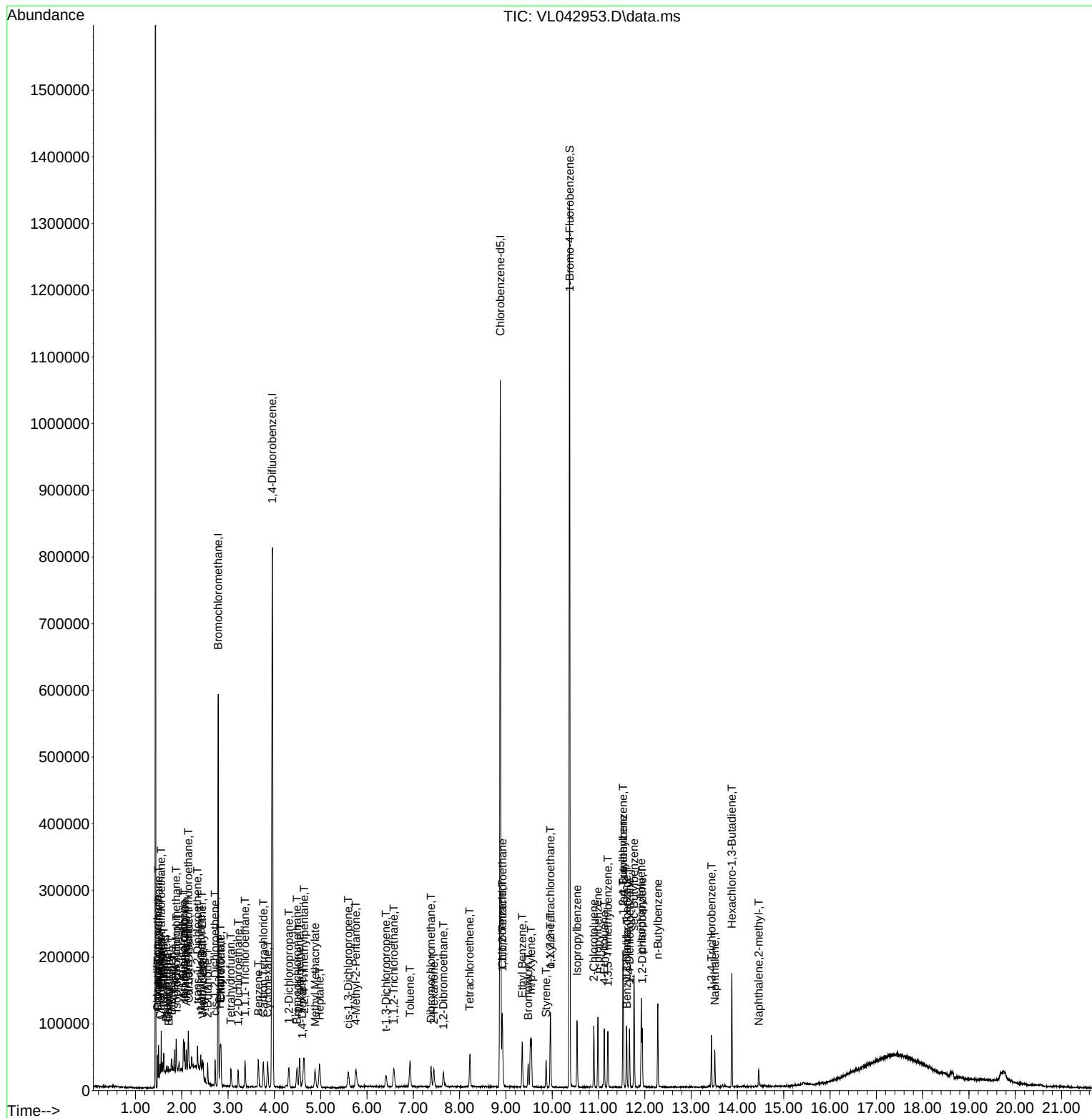
Quant Time: Sep 23 02:11:22 2025

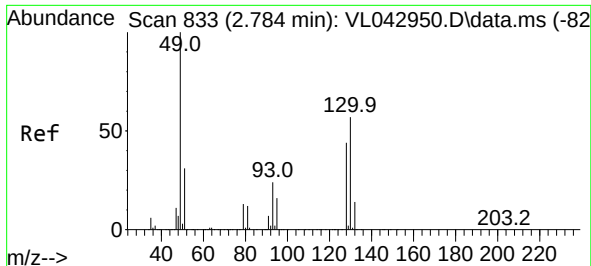
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

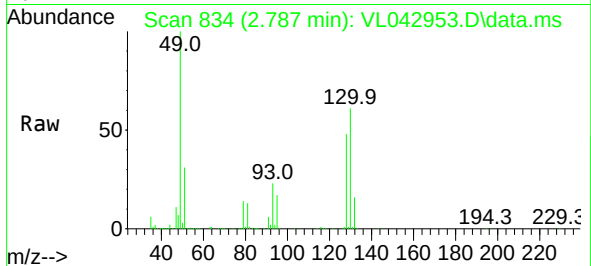
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

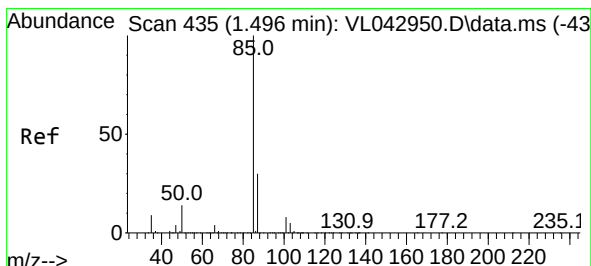
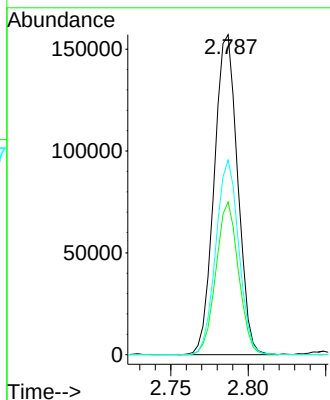
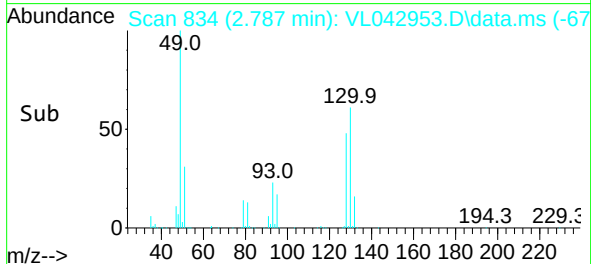
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



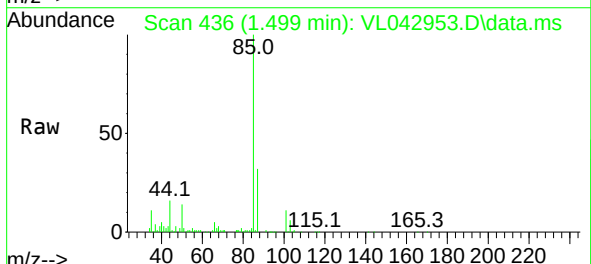
Tgt Ion: 49 Resp: 16543
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.8
130 59.5 29.1 87.3

Manual Integrations
APPROVED

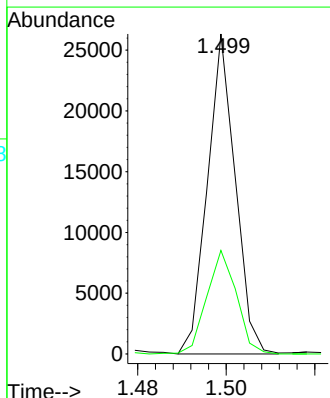
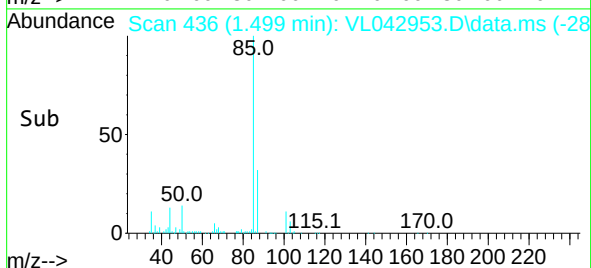
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

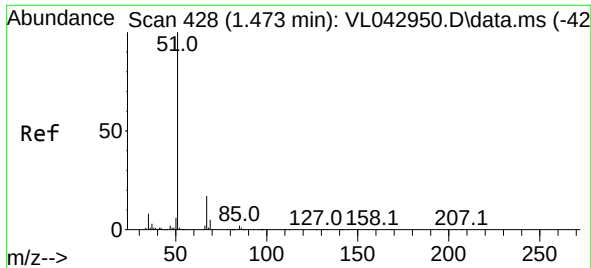


#2
Dichlorodifluoromethane
Concen: 0.517 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22



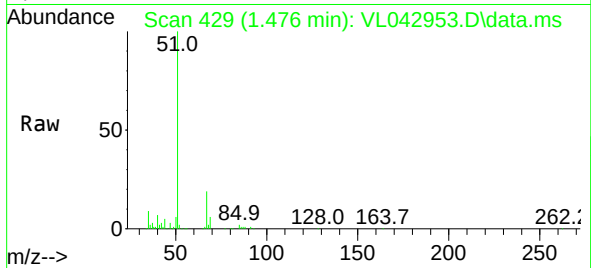
Tgt Ion: 85 Resp: 11508
Ion Ratio Lower Upper
85 100
87 32.4 24.3 36.5





#3
Chlorodifluoromethane
Concen: 0.532 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

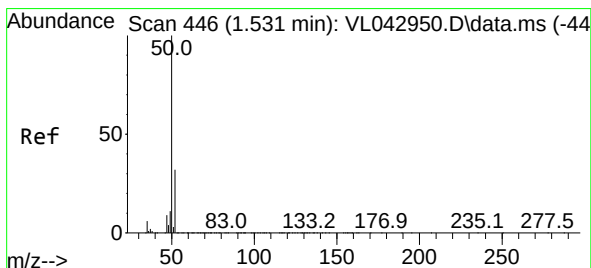
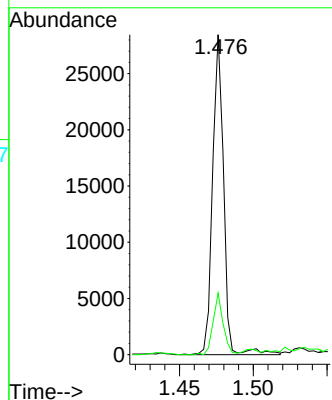
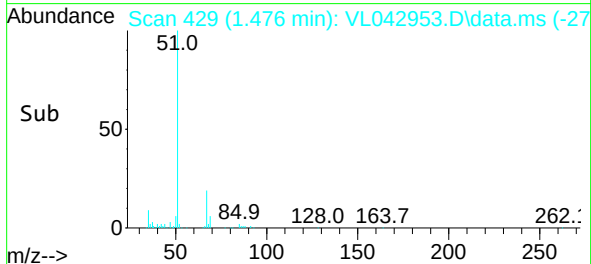
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



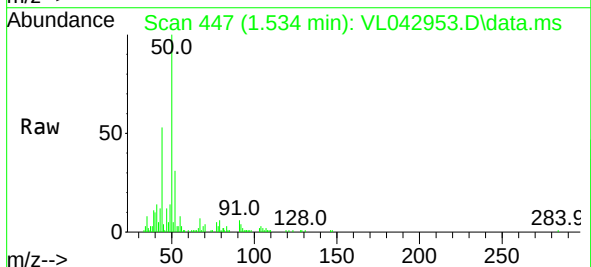
Tgt Ion: 51 Resp: 14744
Ion Ratio Lower Upper
51 100
67 21.7 13.8 20.8

Manual Integrations
APPROVED

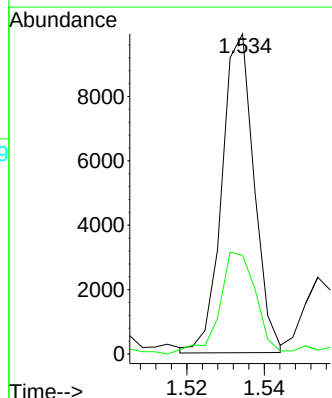
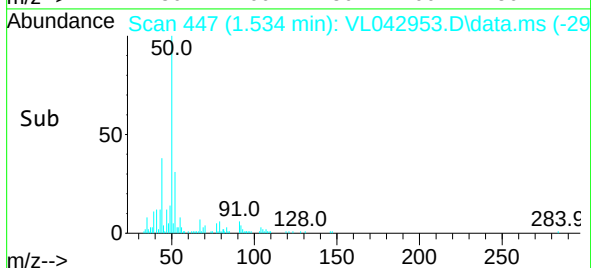
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

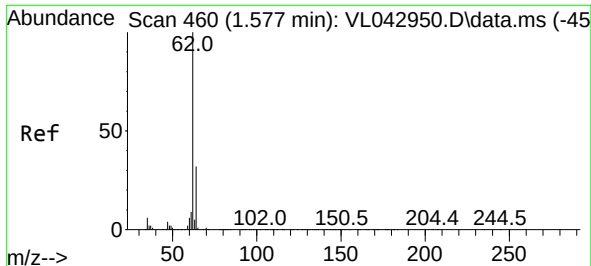


#4
Chloromethane
Concen: 0.569 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22



Tgt Ion: 50 Resp: 5729
Ion Ratio Lower Upper
50 100
52 30.5 25.9 38.9





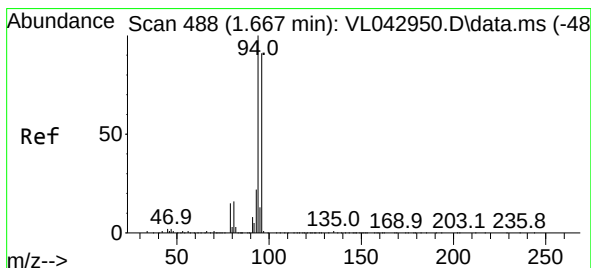
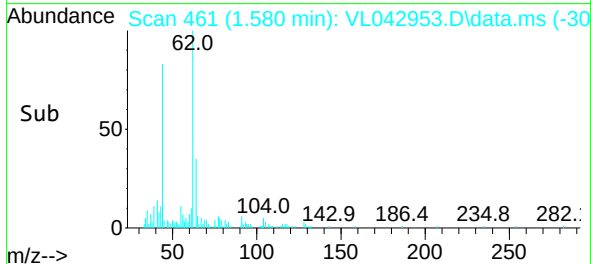
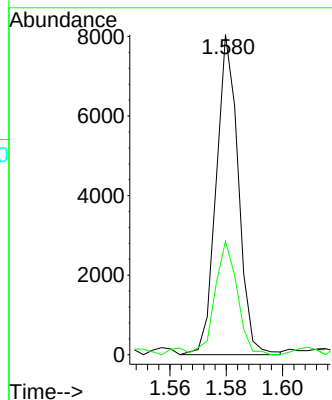
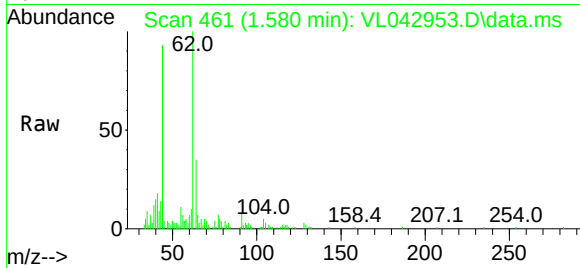
#5
 Vinyl Chloride
 Concen: 0.480 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 62 Resp: 437
 Ion Ratio Lower Upper
 62 100
 64 35.5 25.4 38.2

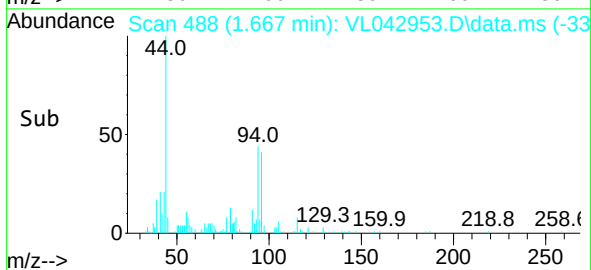
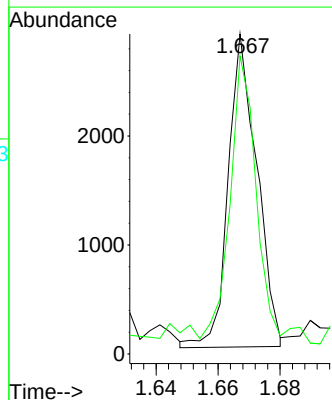
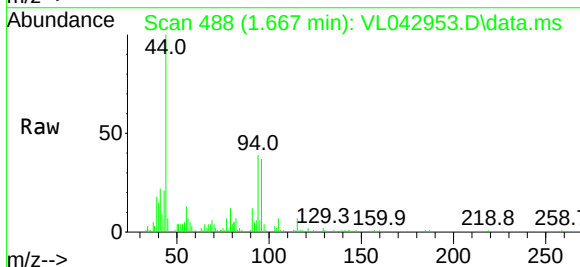
Manual Integrations
 APPROVED

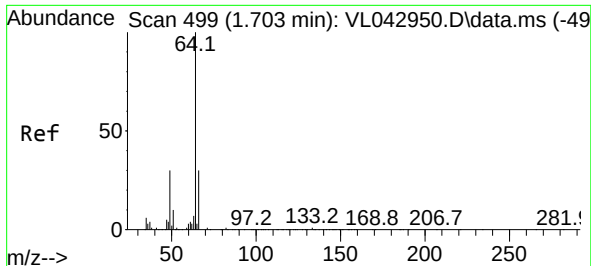
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#6
 Bromomethane
 Concen: 0.576 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

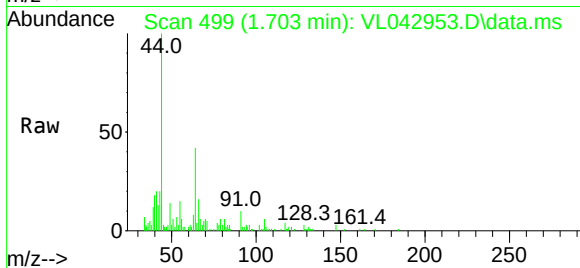
Tgt Ion: 94 Resp: 1850
 Ion Ratio Lower Upper
 94 100
 96 90.9 72.6 108.8





#7
Chloroethane
Concen: 0.548 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

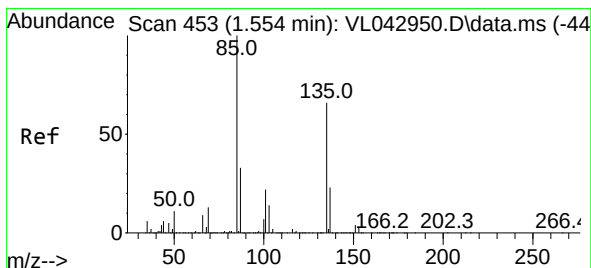
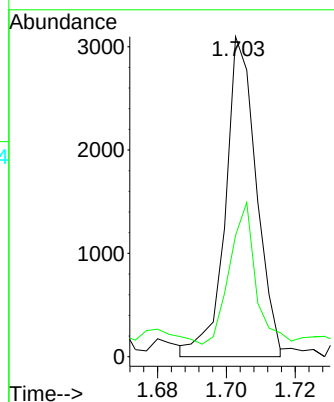
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



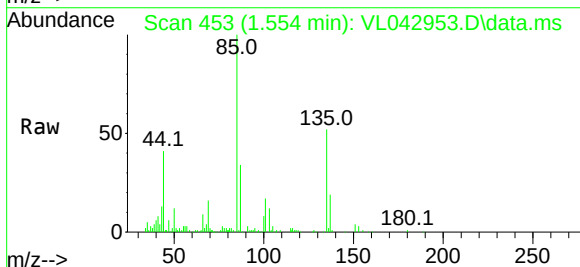
Tgt Ion: 64 Resp: 1930
Ion Ratio Lower Upper
64 100
66 37.9 24.6 36.8

Manual Integrations
APPROVED

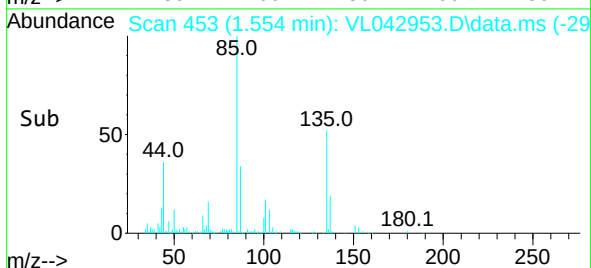
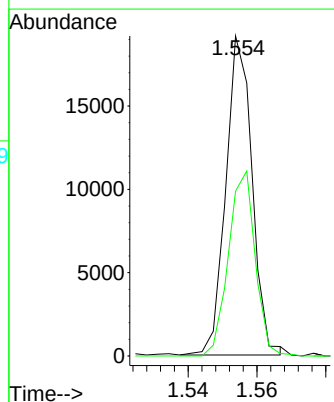
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

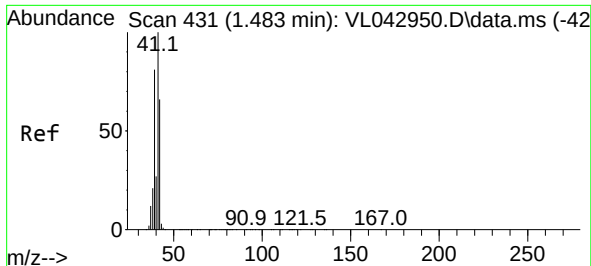


#8
Dichlorotetrafluoroethane
Concen: 0.534 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22



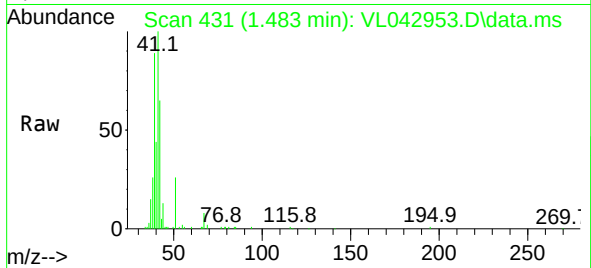
Tgt Ion: 85 Resp: 10149
Ion Ratio Lower Upper
85 100
135 59.1 49.7 74.5





#9
 Propene
 Concen: 0.537 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

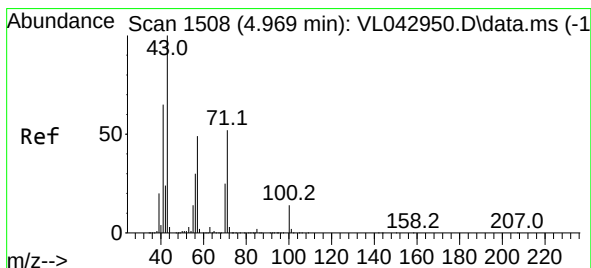
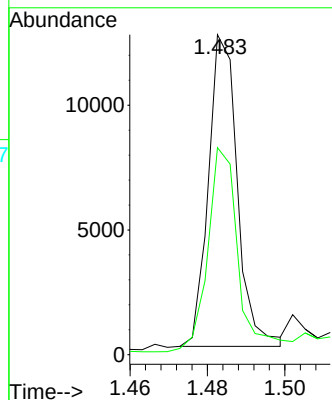
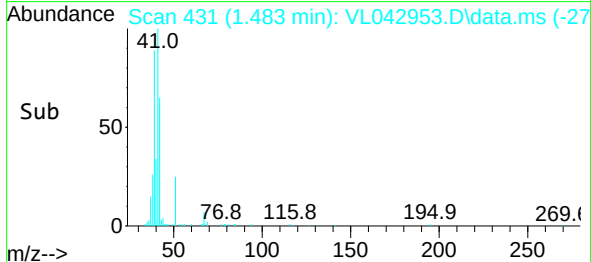
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



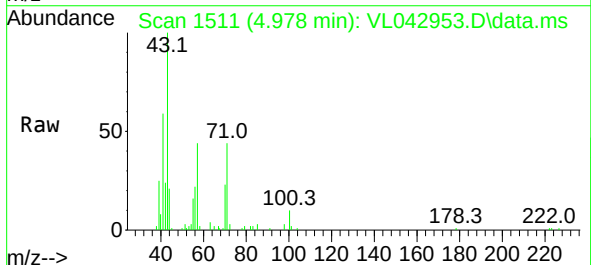
Tgt Ion: 41 Resp: 648
 Ion Ratio Lower Upper
 41 100
 42 77.1 57.4 86.2

Manual Integrations
 APPROVED

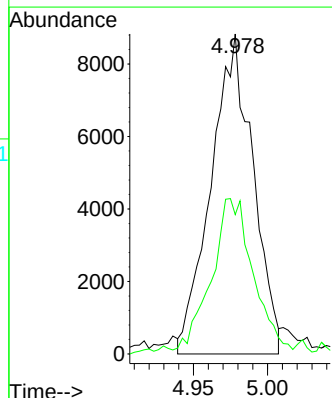
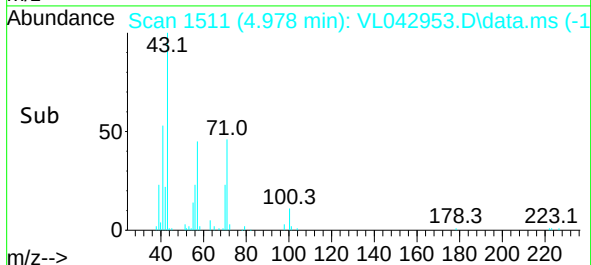
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

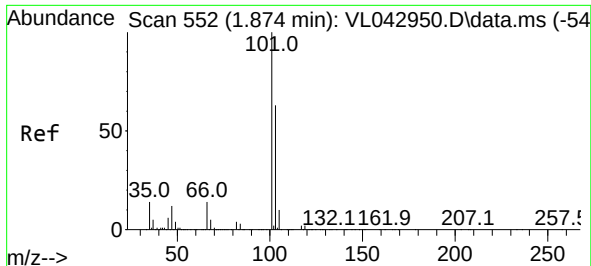


#10
 Heptane
 Concen: 0.537 ppbv m
 RT: 4.978 min Scan# 1511
 Delta R.T. 0.010 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22



Tgt Ion: 43 Resp: 17388
 Ion Ratio Lower Upper
 43 100
 57 49.0 38.6 57.8





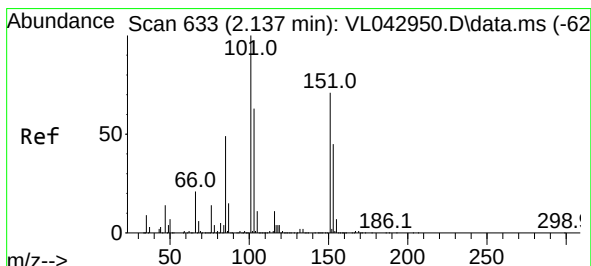
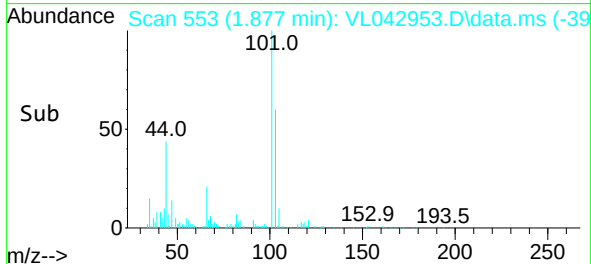
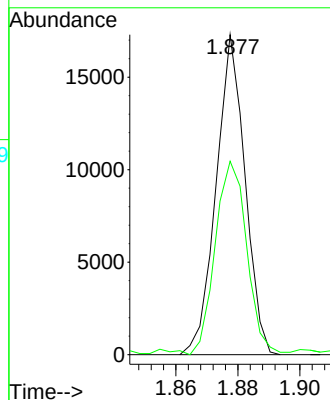
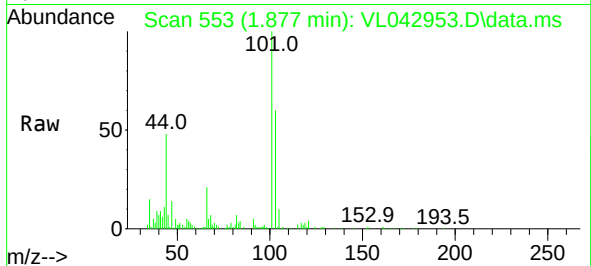
#11
Trichlorofluoromethane
Concen: 0.522 ppbv
RT: 1.877 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:101 Resp: 11200
Ion Ratio Lower Upper
101 100
103 59.7 50.1 75.1

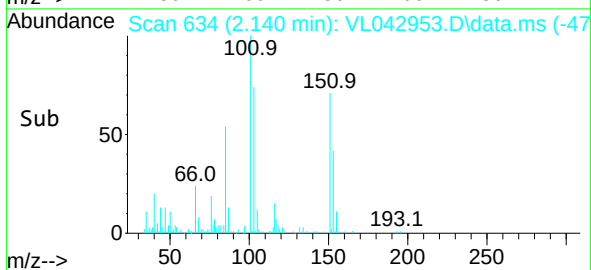
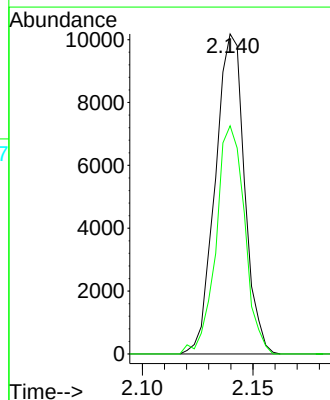
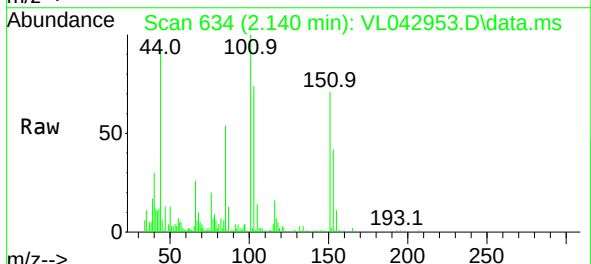
Manual Integrations
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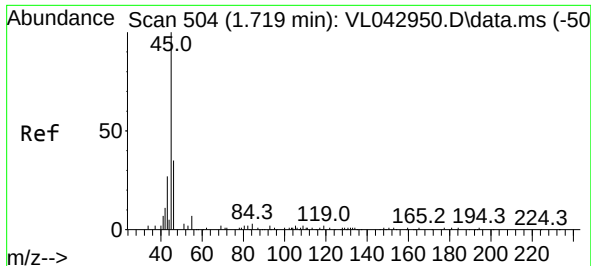
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.538 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

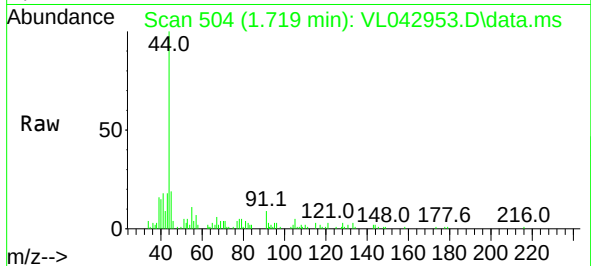
Tgt Ion:101 Resp: 9346
Ion Ratio Lower Upper
101 100
151 69.7 55.7 83.5





#13
Ethanol
Concen: 0.544 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

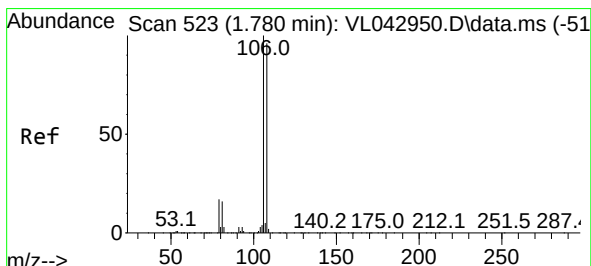
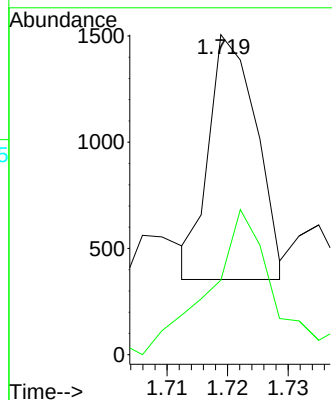
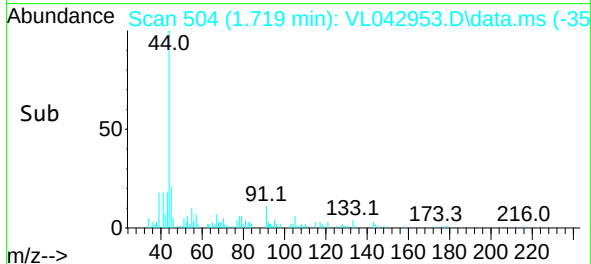
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



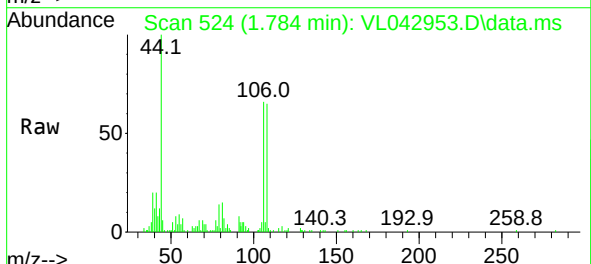
Tgt Ion: 45 Resp: 629
Ion Ratio Lower Upper
45 100
46 140.9 16.2 64.6

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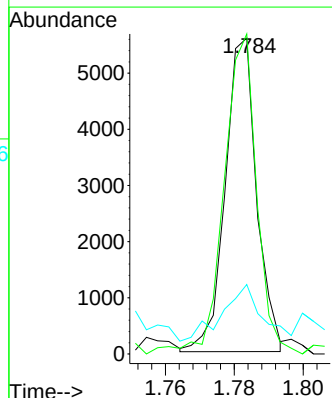
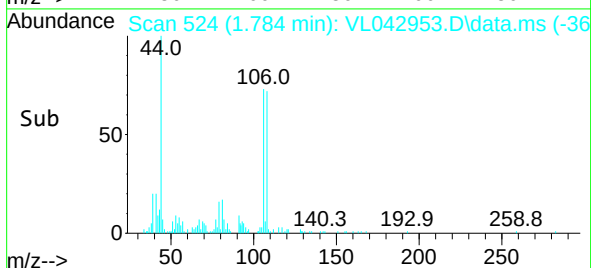
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

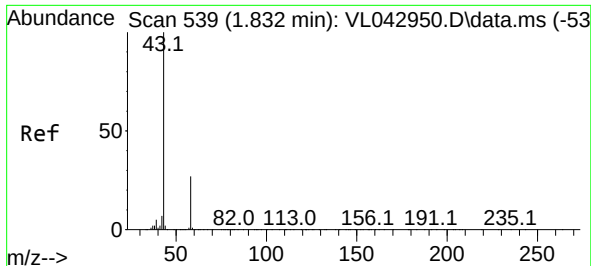


#14
Bromoethene
Concen: 0.541 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22



Tgt Ion:108 Resp: 3553
Ion Ratio Lower Upper
108 100
106 115.9 86.0 129.0
79 46.0 14.2 21.2





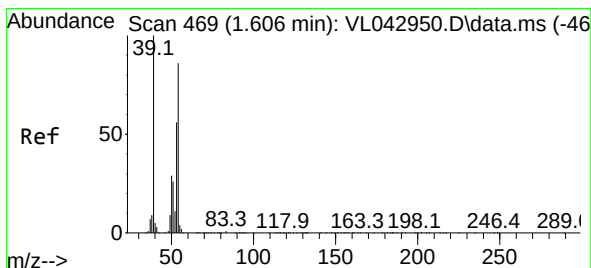
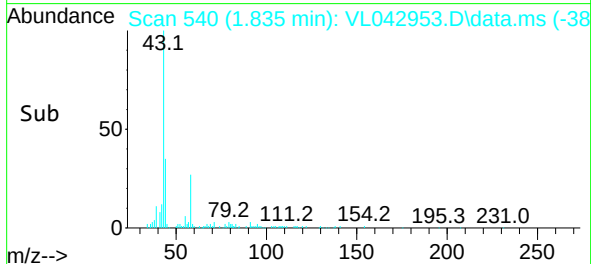
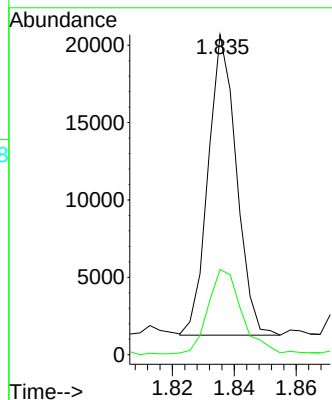
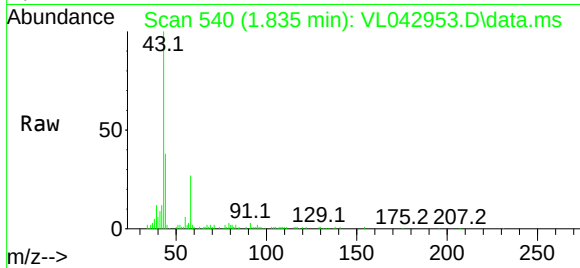
#15
Acetone
Concen: 0.572 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 12320
Ion Ratio Lower Upper
43 100
58 35.4 22.3 33.5

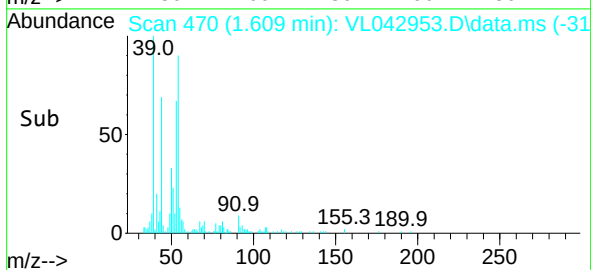
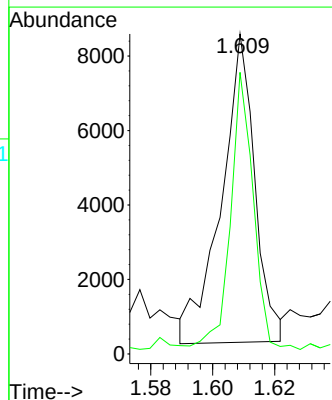
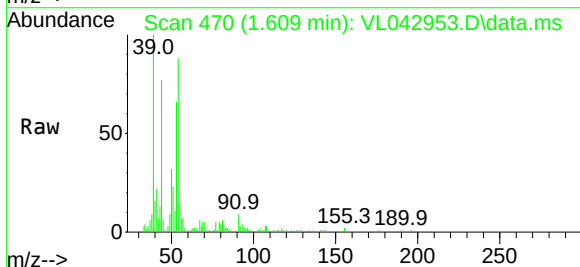
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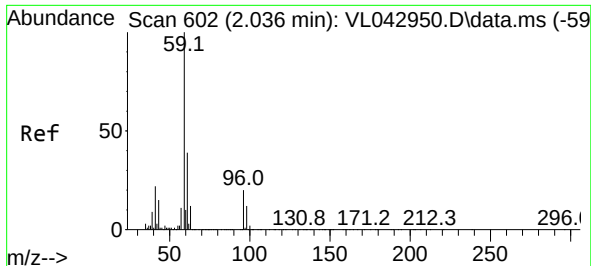
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#16
1,3-Butadiene
Concen: 0.611 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 39 Resp: 6215
Ion Ratio Lower Upper
39 100
54 60.7 60.8 91.2





#17

tert-Butyl alcohol

Concen: 0.555 ppbv

RT: 2.043 min Scan# 602

Delta R.T. 0.006 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 59 Resp: 13128

Ion Ratio Lower Upper

59 100

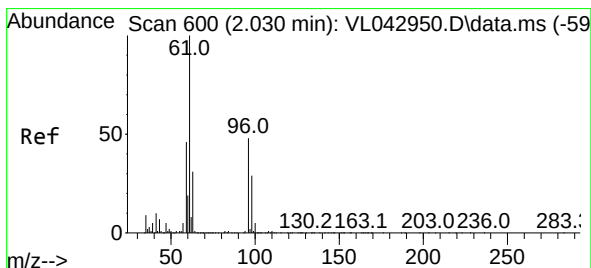
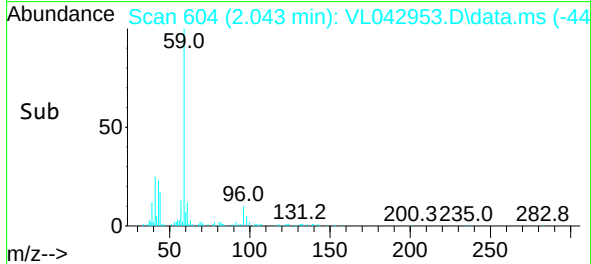
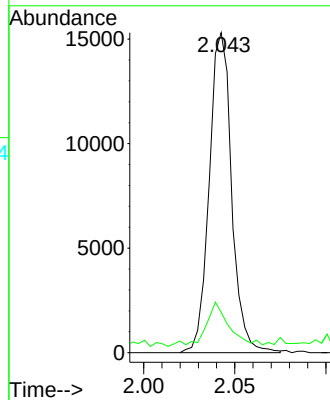
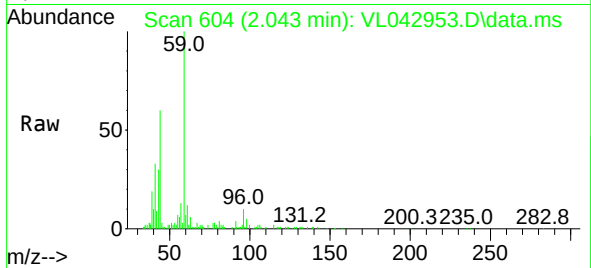
57 19.4 8.6 12.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#18

1,1-Dichloroethene

Concen: 0.565 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

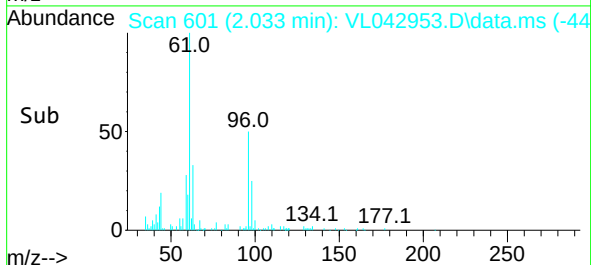
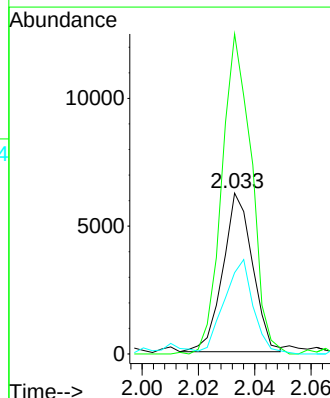
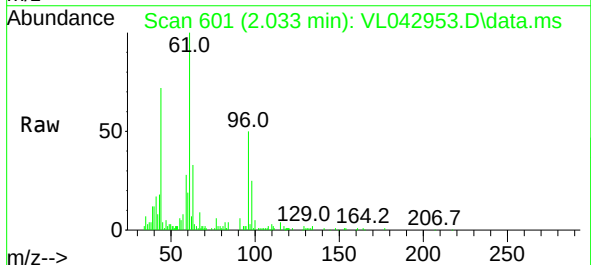
Tgt Ion: 96 Resp: 4543

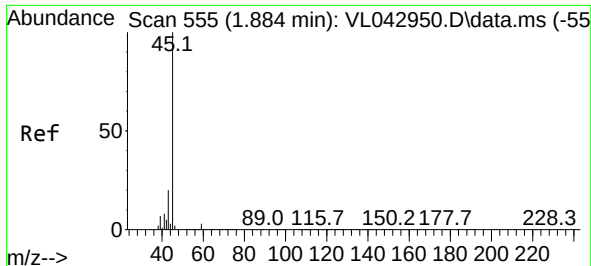
Ion Ratio Lower Upper

96 100

61 201.0 166.2 249.4

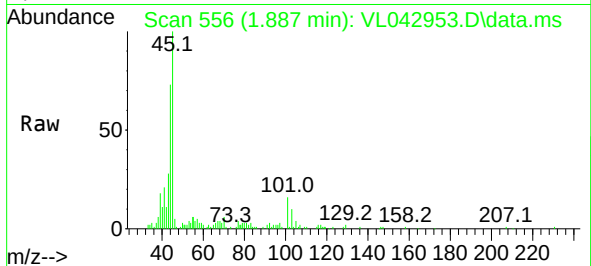
98 49.4 48.6 73.0





#19
Isopropyl Alcohol
Concen: 0.574 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

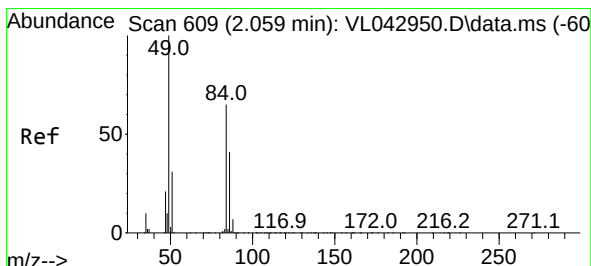
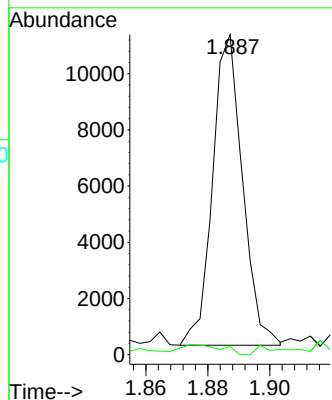
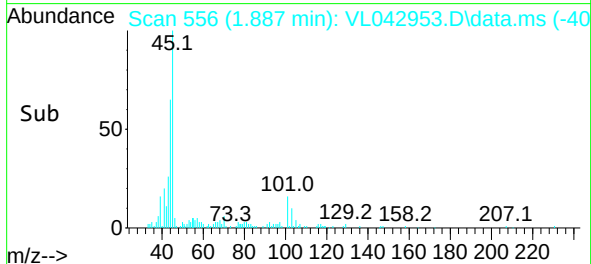
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5



Tgt Ion: 45 Resp: 743
Ion Ratio Lower Upper
45 100
58 6.1 31.0 46.6

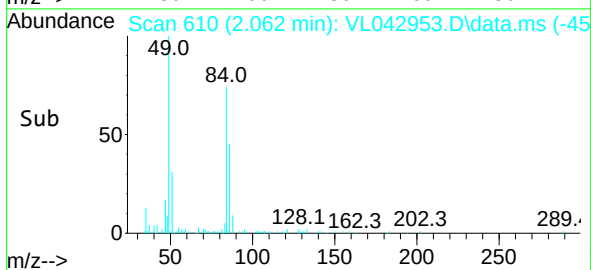
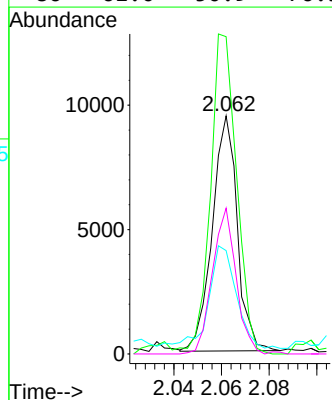
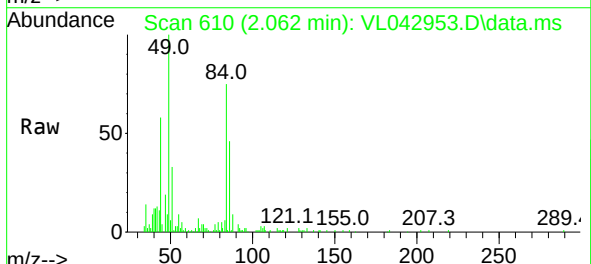
Manual Integrations
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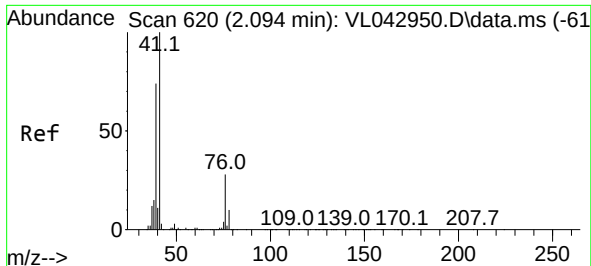
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#20
Methylene Chloride
Concen: 0.430 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

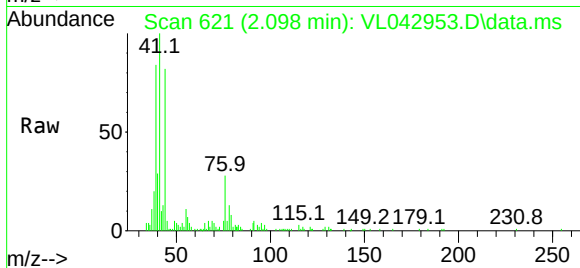
Tgt Ion: 84 Resp: 6881
Ion Ratio Lower Upper
84 100
49 132.8 124.1 186.1
51 40.9 39.8 59.8
86 61.0 50.9 76.3





#21
 Allyl Chloride
 Concen: 0.499 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

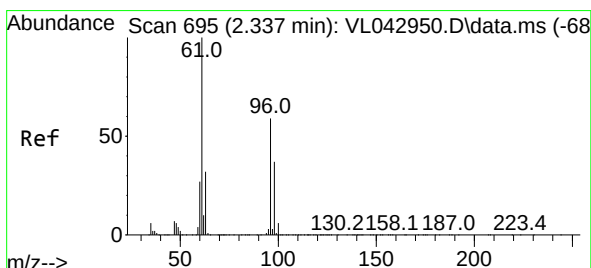
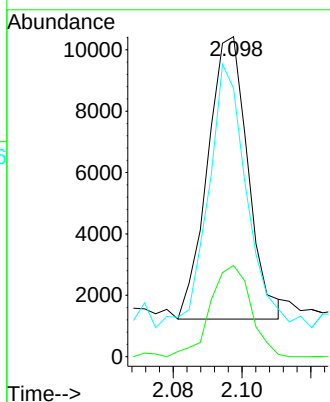
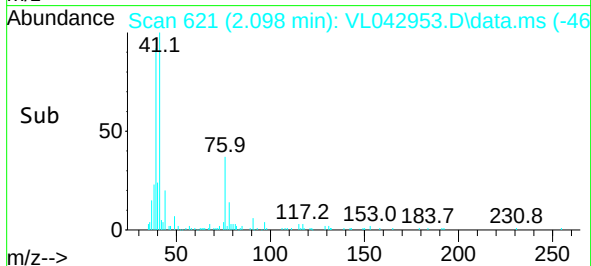
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



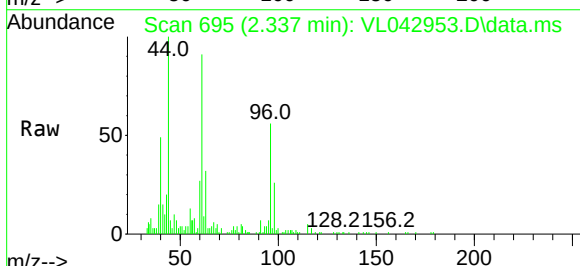
Tgt Ion: 41 Resp: 748
 Ion Ratio Lower Upper
 41 100
 76 33.1 22.3 33.5
 39 110.1 61.3 91.9

Manual Integrations
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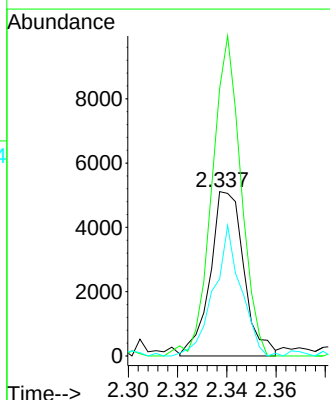
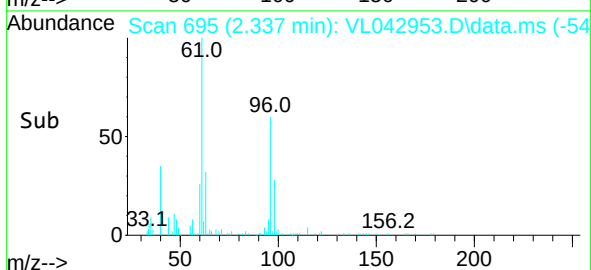
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

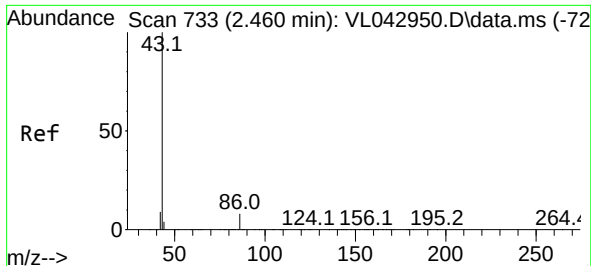


#22
 trans-1,2-Dichloroethene
 Concen: 0.533 ppbv m
 RT: 2.337 min Scan# 695
 Delta R.T. -0.000 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22



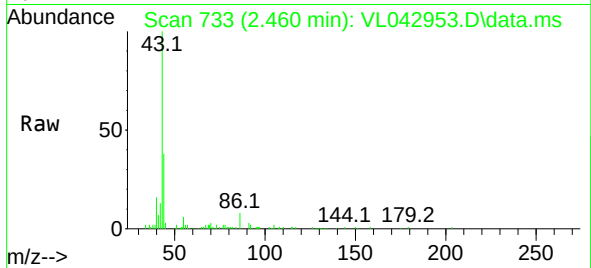
Tgt Ion: 96 Resp: 4869
 Ion Ratio Lower Upper
 96 100
 61 162.8 136.5 204.7
 98 46.9 50.6 76.0





#23
 Vinyl Acetate
 Concen: 0.593 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

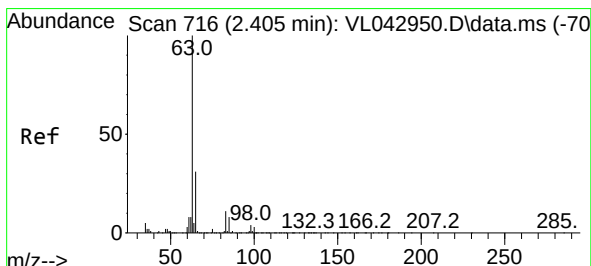
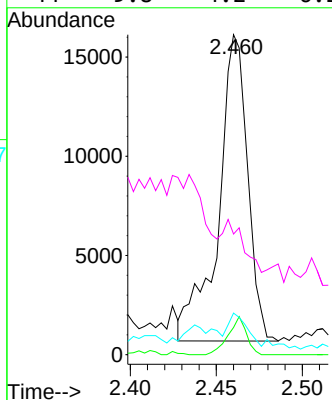
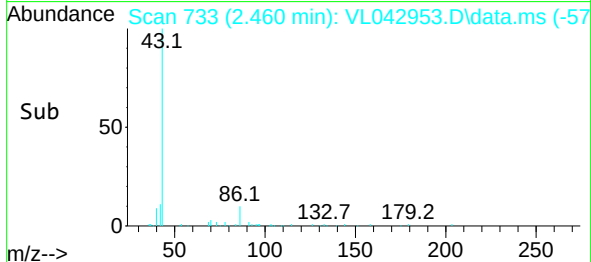
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:	43	Resp:	18264
Ion	Ratio	Lower	Upper
43	100		
86	8.9	6.2	9.2
42	10.1	7.4	11.0
44	9.8	4.2	6.2

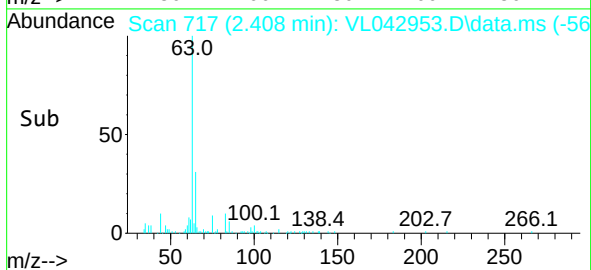
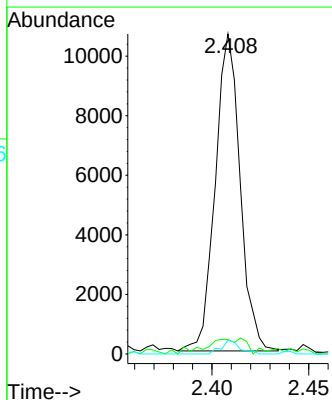
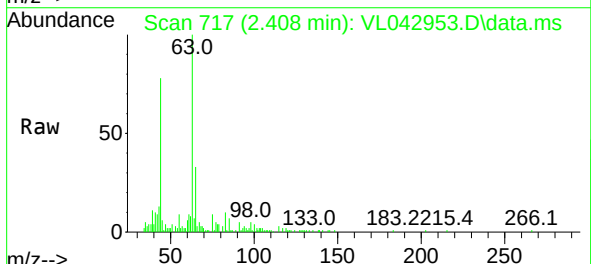
Manual Integrations
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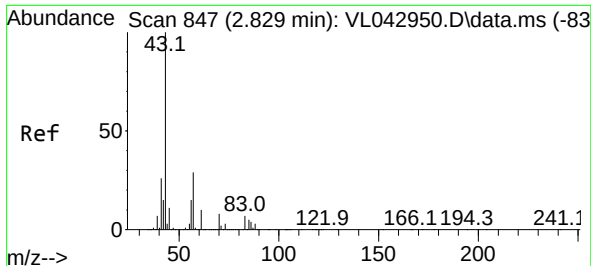
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#24
 1,1-Dichloroethane
 Concen: 0.529 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

Tgt Ion:	63	Resp:	9484
Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.2	6.6
100	4.3	1.4	4.0





#25

Ethyl Acetate

Concen: 0.517 ppbv

RT: 2.836 min Scan# 84

Delta R.T. 0.006 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

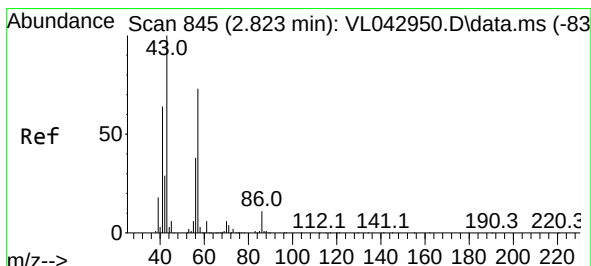
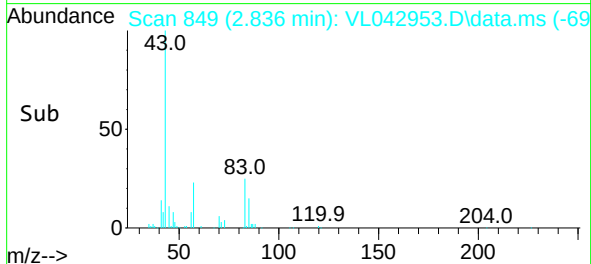
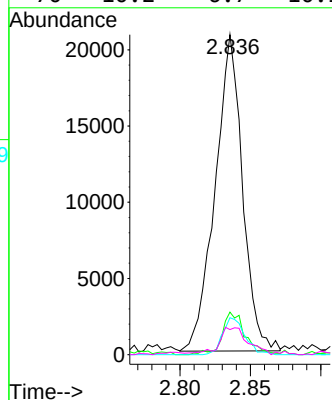
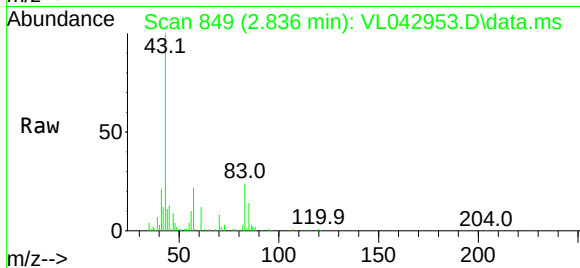
VSTDIC0.5

Tgt Ion: 43	Resp: 2816
Ion Ratio	Lower Upper
43 100	
45 12.3	7.7 11.5
61 9.5	7.1 10.7
70 10.2	6.7 10.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#26

Hexane

Concen: 0.540 ppbv

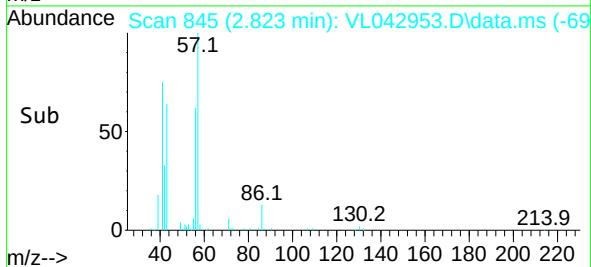
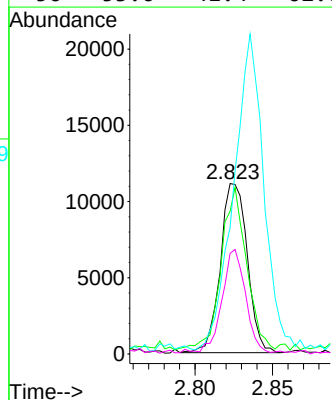
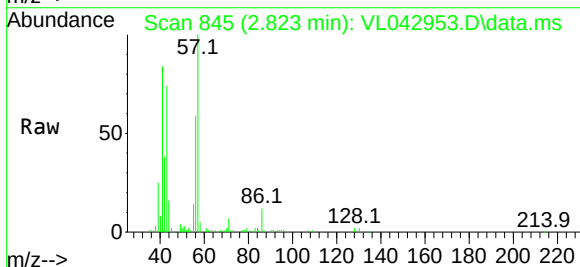
RT: 2.823 min Scan# 845

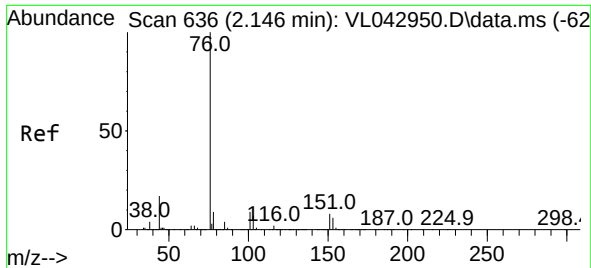
Delta R.T. -0.000 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

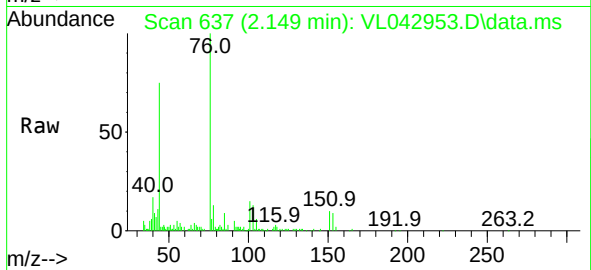
Tgt Ion: 57	Resp: 13406
Ion Ratio	Lower Upper
57 100	
41 92.4	71.7 107.5
43 224.5	180.8 271.2
56 53.6	41.4 62.0





#27
Carbon Disulfide
Concen: 0.518 ppbv
RT: 2.149 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

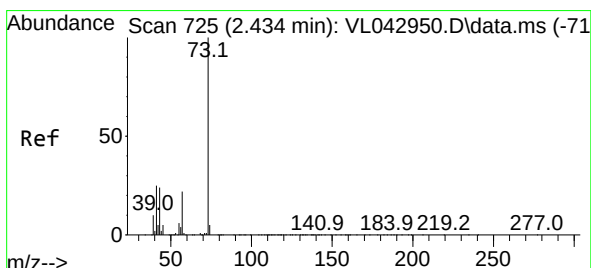
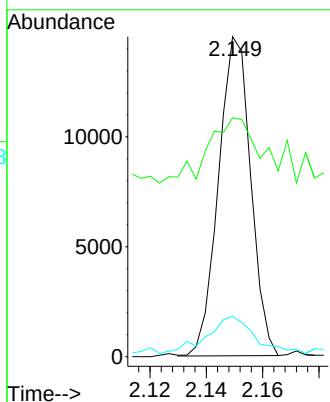
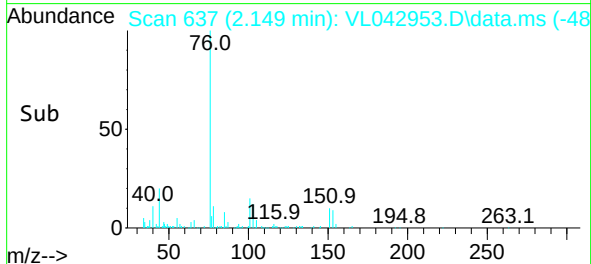
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



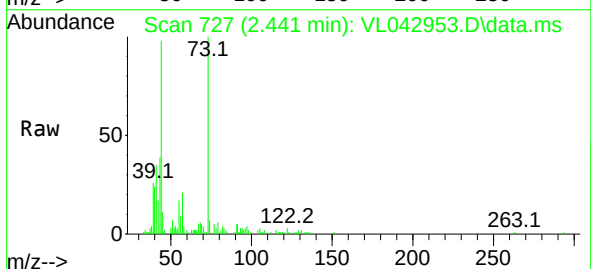
Tgt Ion: 76 Resp: 1153
Ion Ratio Lower Upper
76 100
44 134.4 15.6 23.4
78 20.6 8.9 13.3

Manual Integrations
APPROVED

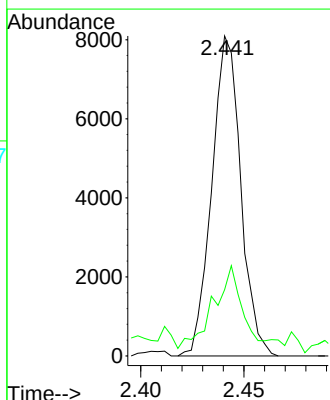
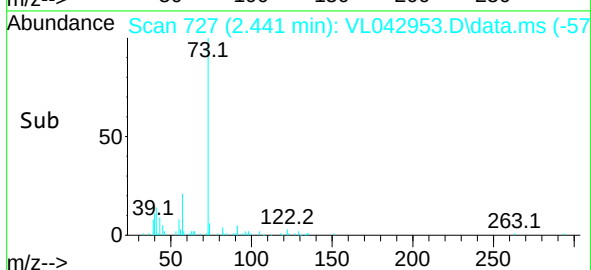
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

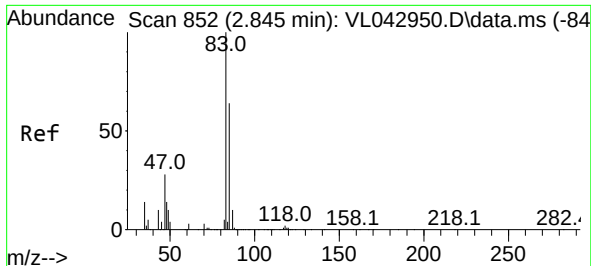


#28
Methyl tert-Butyl Ether
Concen: 0.611 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.006 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22



Tgt Ion: 73 Resp: 7886
Ion Ratio Lower Upper
73 100
57 43.4 20.6 31.0





#29

Chloroform

Concen: 0.530 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.000 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 83 Resp: 1718

Ion Ratio Lower Upper

83 100

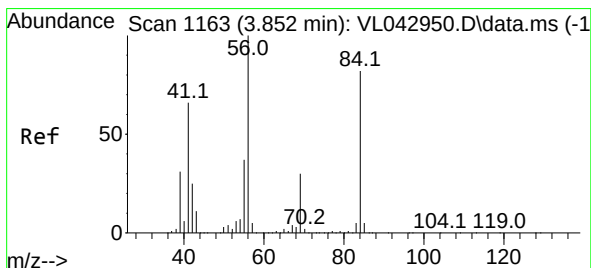
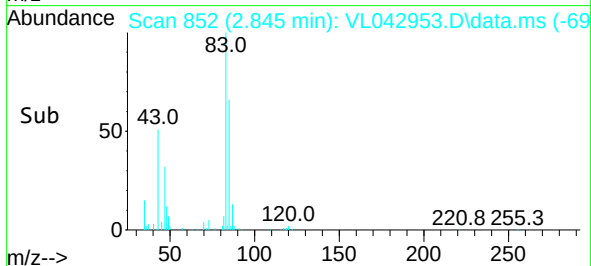
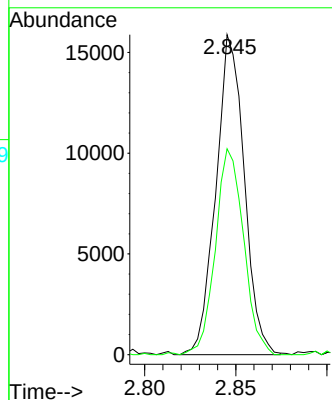
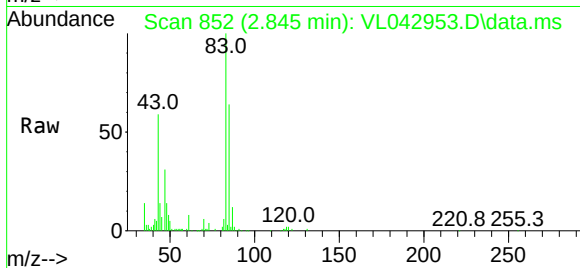
85 64.3 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#30

Cyclohexane

Concen: 0.523 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

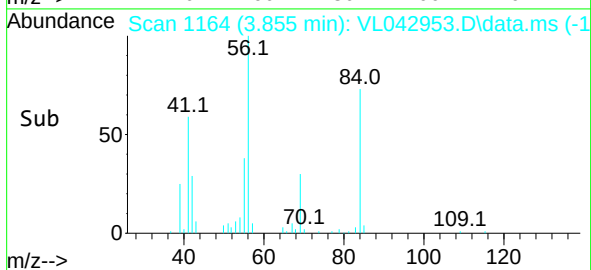
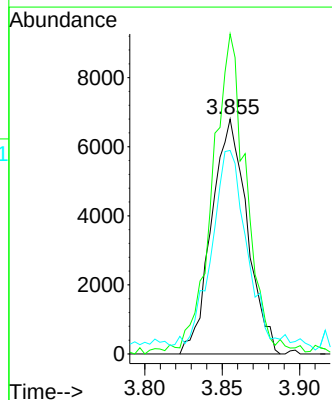
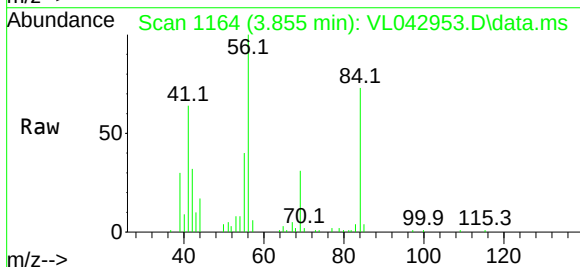
Tgt Ion: 84 Resp: 10856

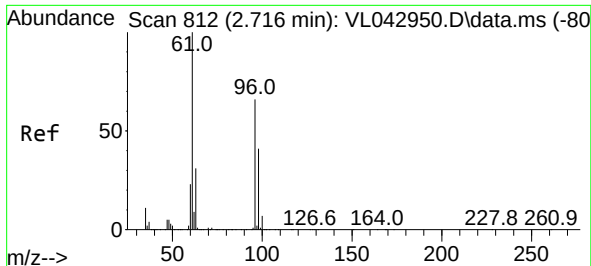
Ion Ratio Lower Upper

84 100

56 132.1 102.2 153.4

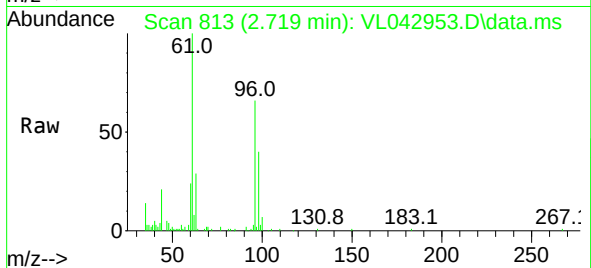
41 92.2 65.6 98.4





#31
 cis-1,2-Dichloroethene
 Concen: 0.513 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

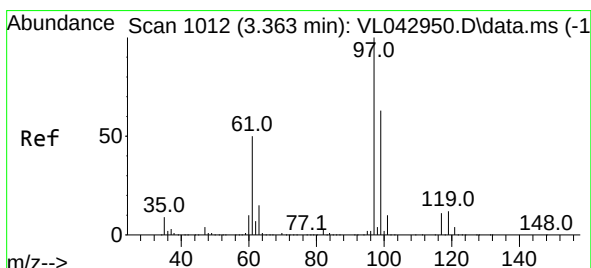
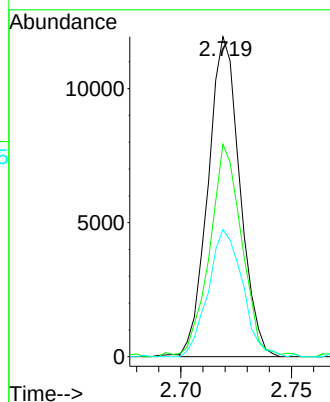
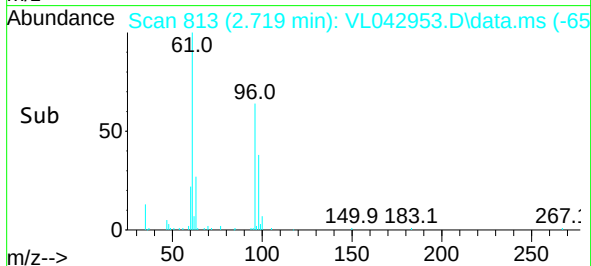
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



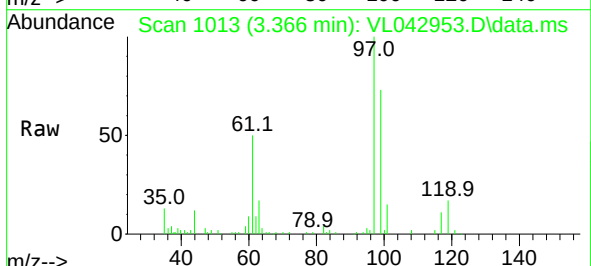
Tgt Ion: 61 Resp: 11939
 Ion Ratio Lower Upper
 61 100
 96 65.7 53.0 79.6
 98 39.7 32.9 49.3

Manual Integrations
 APPROVED

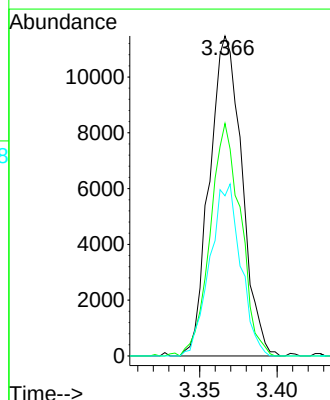
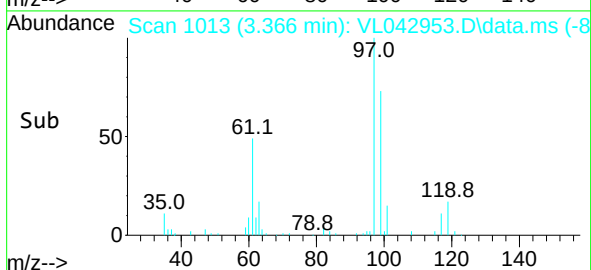
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

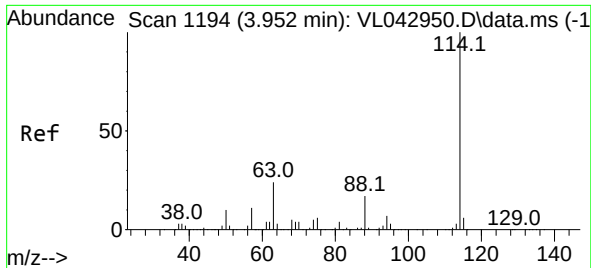


#32
 1,1,1-Trichloroethane
 Concen: 0.474 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.003 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22



Tgt Ion: 97 Resp: 16684
 Ion Ratio Lower Upper
 97 100
 99 68.4 51.1 76.7
 61 51.1 39.8 59.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1194

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

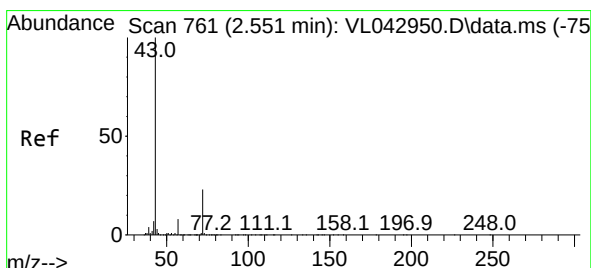
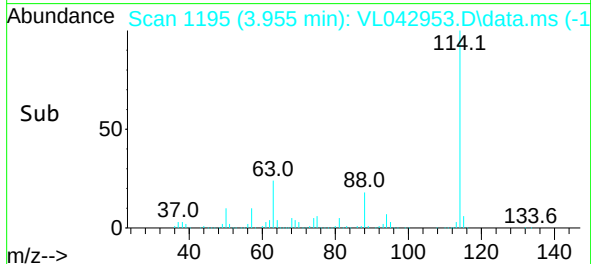
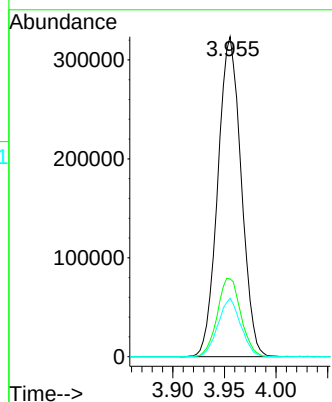
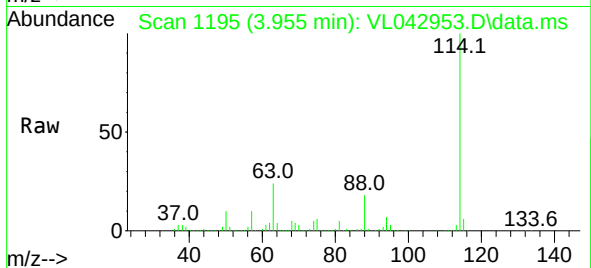
VSTDICC0.5

Tgt Ion:114	Resp: 509300
Ion Ratio	Lower Upper
114 100	
63 24.8	19.4 29.2
88 17.7	14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#34

2-Butanone

Concen: 0.531 ppbv

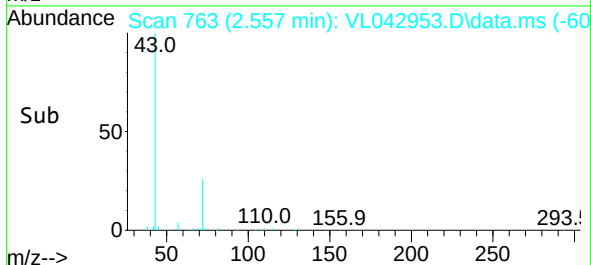
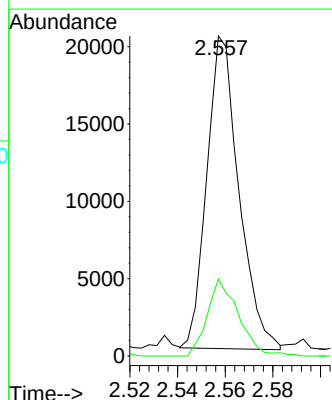
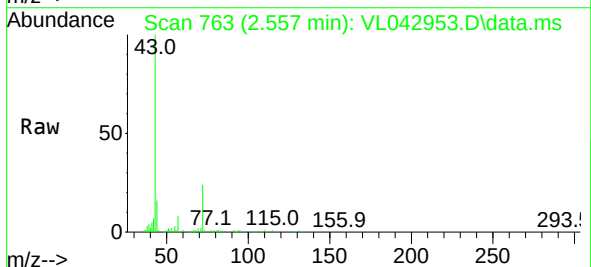
RT: 2.557 min Scan# 763

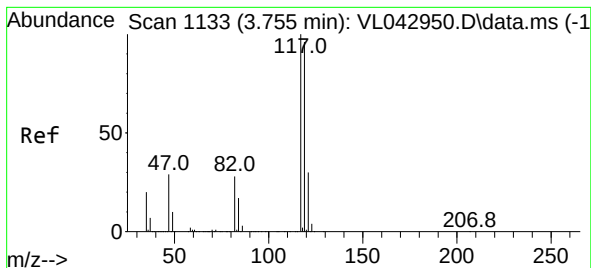
Delta R.T. 0.006 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Tgt Ion: 43	Resp: 18948
Ion Ratio	Lower Upper
43 100	
72 23.9	17.7 26.5





#35

Carbon Tetrachloride

Concen: 0.513 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. 0.006 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

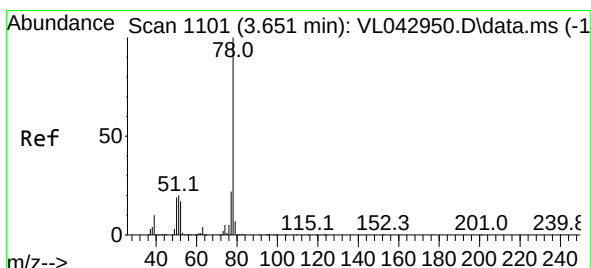
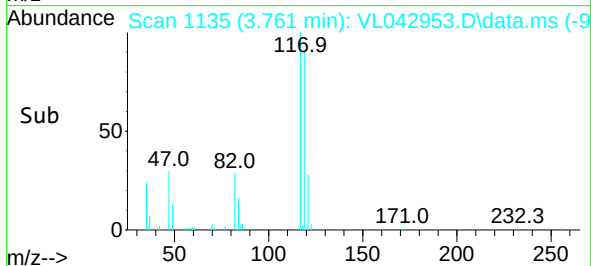
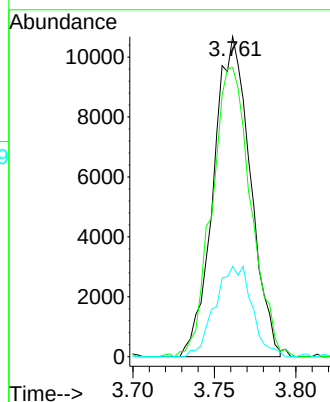
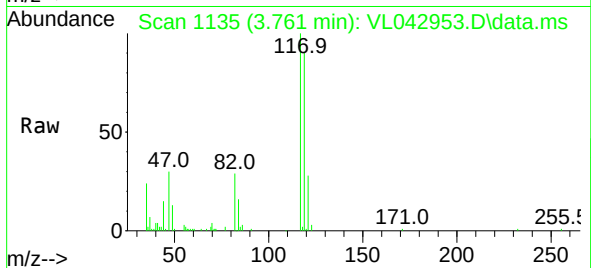
VSTDIC0.5

Tgt Ion:	117	Resp:	1679
Ion Ratio	Lower	Upper	
117	100		
119	88.9	76.9	115.3
121	28.2	23.7	35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#36

Benzene

Concen: 0.519 ppbv

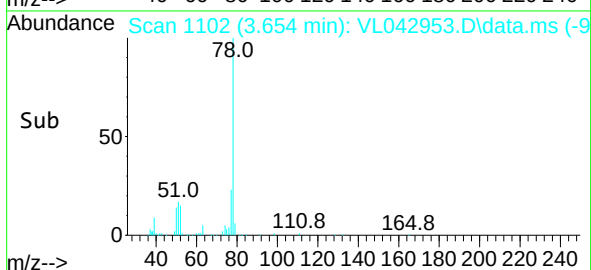
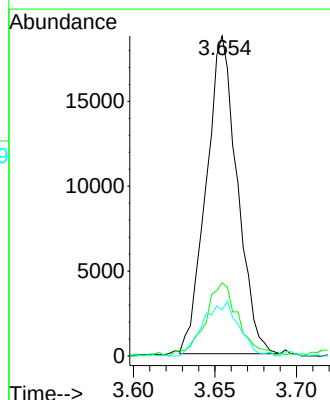
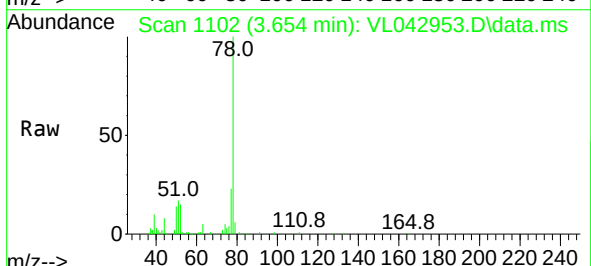
RT: 3.654 min Scan# 1102

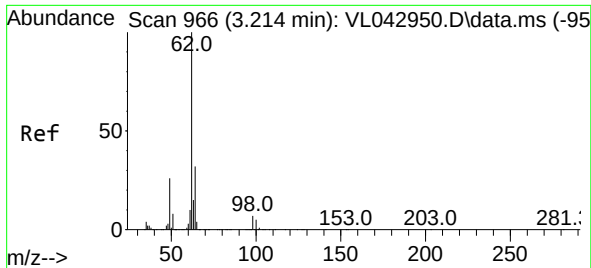
Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

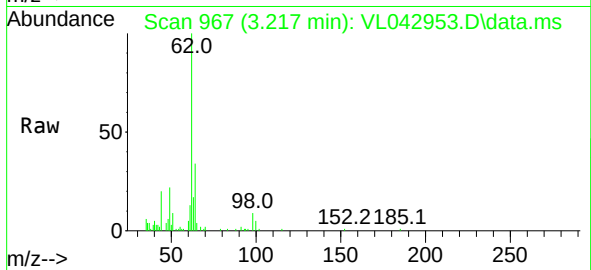
Tgt Ion:	78	Resp:	24807
Ion Ratio	Lower	Upper	
78	100		
77	21.4	17.8	26.6
50	14.5	15.0	22.4





#37
1,2-Dichloroethane
Concen: 0.508 ppbv
RT: 3.217 min Scan# 967
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

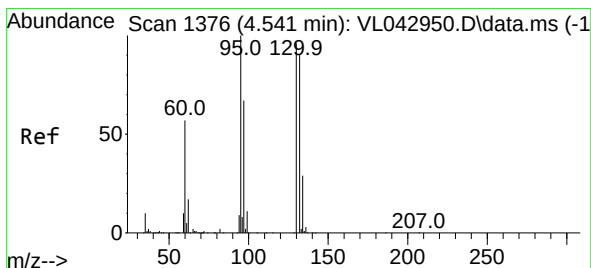
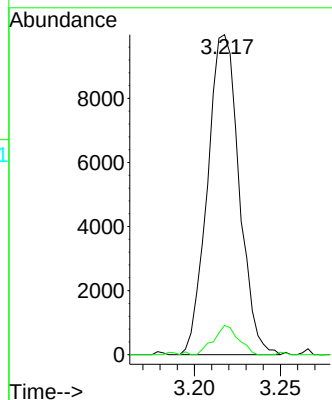
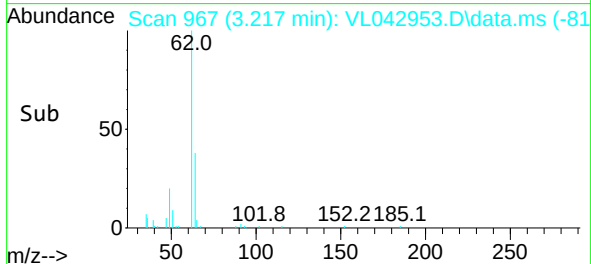
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



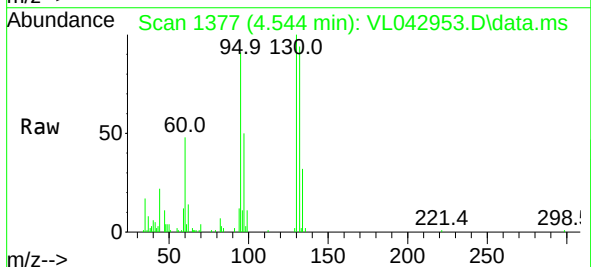
Tgt Ion: 62 Resp: 12788
Ion Ratio Lower Upper
62 100
98 7.4 5.9 8.9

Manual Integrations
APPROVED

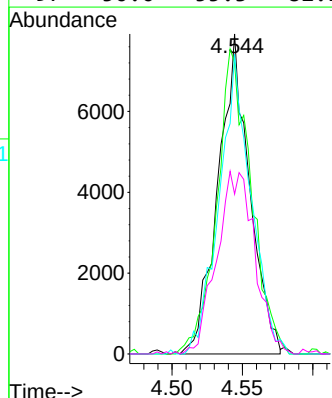
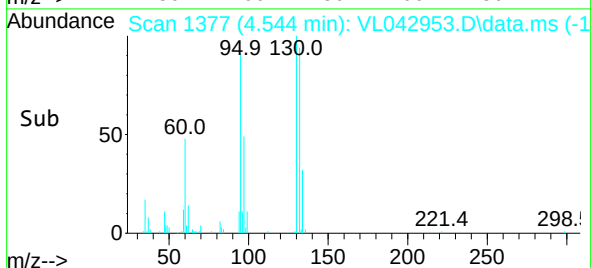
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

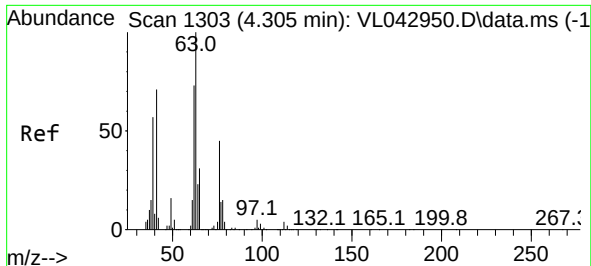


#38
Trichloroethene
Concen: 0.515 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22



Tgt Ion:130 Resp: 12243
Ion Ratio Lower Upper
130 100
95 89.6 83.0 124.4
132 93.6 74.6 112.0
97 50.0 55.3 82.9#





#39

1,2-Dichloropropane

Concen: 0.502 ppbv

RT: 4.315 min Scan# 1306

Delta R.T. 0.010 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

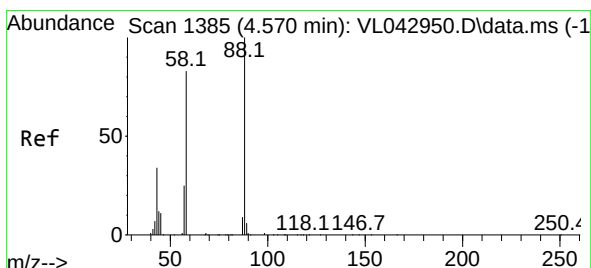
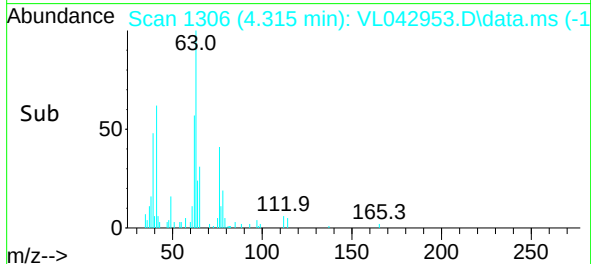
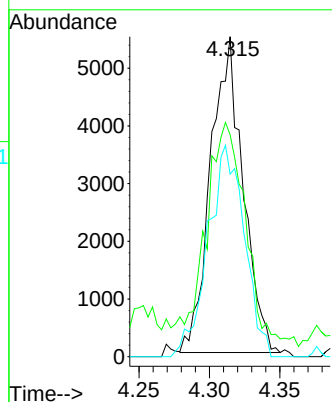
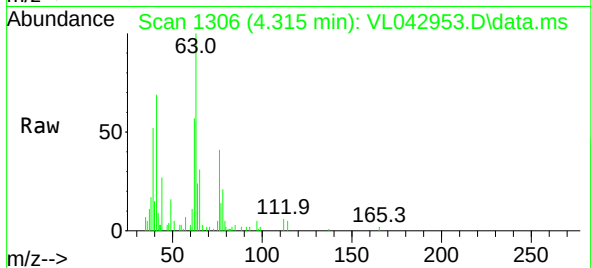
VSTDICC0.5

Tgt Ion: 63	Resp: 877
Ion Ratio	Lower Upper
63 100	
41 64.7	57.5 86.3
62 56.5	58.5 87.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#40

1,4-Dioxane

Concen: 0.543 ppbv m

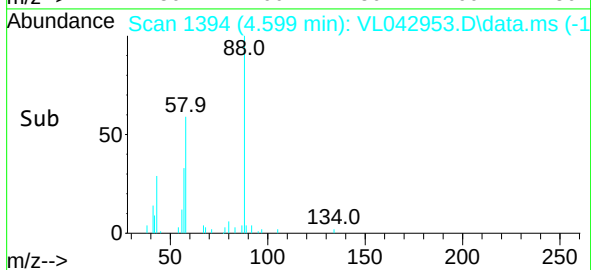
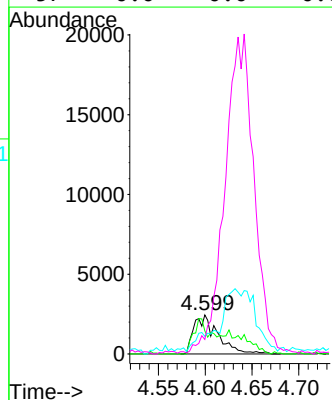
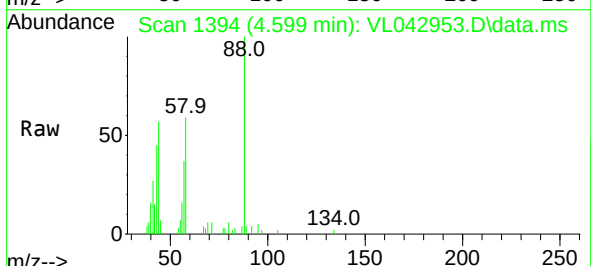
RT: 4.599 min Scan# 1394

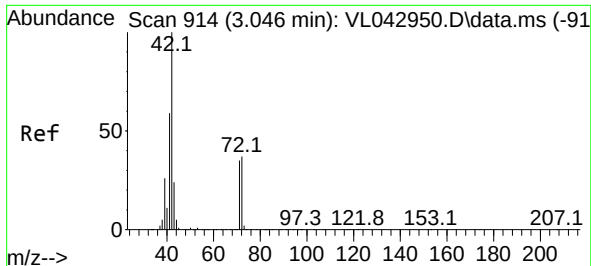
Delta R.T. 0.029 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

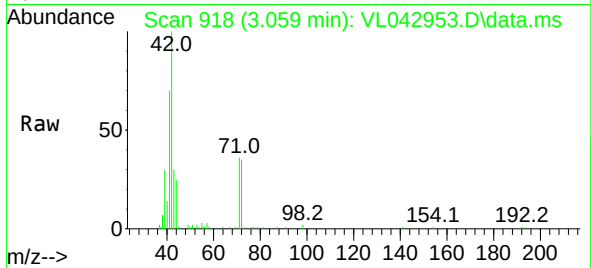
Tgt Ion: 88	Resp: 4405
Ion Ratio	Lower Upper
88 100	
58 123.7	59.7 89.5#
43 0.0	28.9 43.3#
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 0.530 ppbv
RT: 3.059 min Scan# 914
Delta R.T. 0.013 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

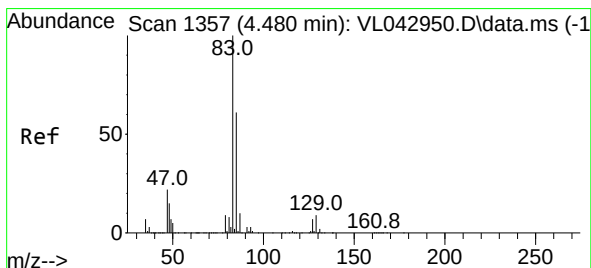
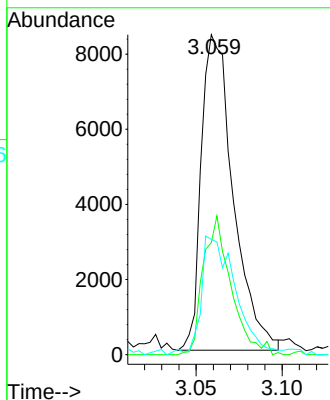
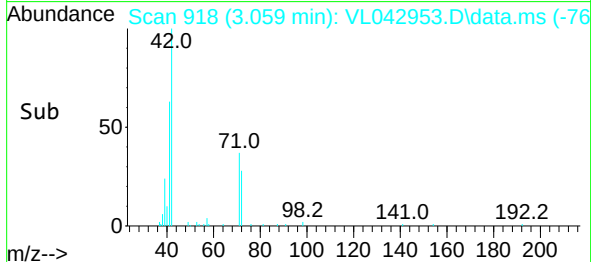
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 42 Resp: 1087
Ion Ratio Lower Upper
42 100
72 38.4 30.0 45.0
71 41.6 28.8 43.2

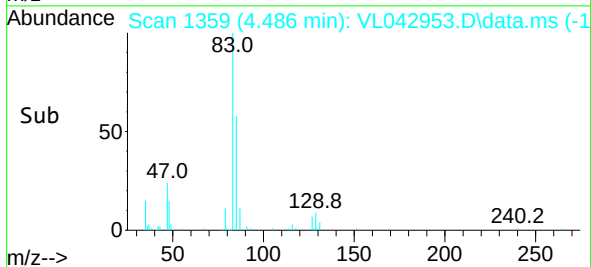
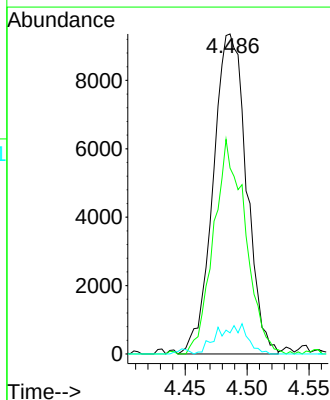
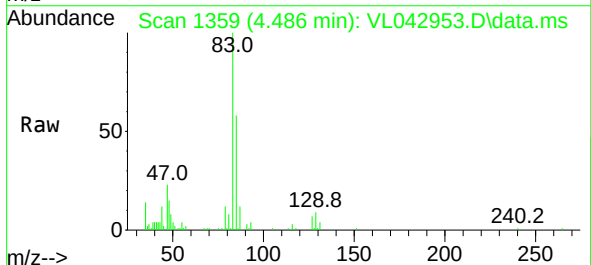
Manual Integrations
APPROVED

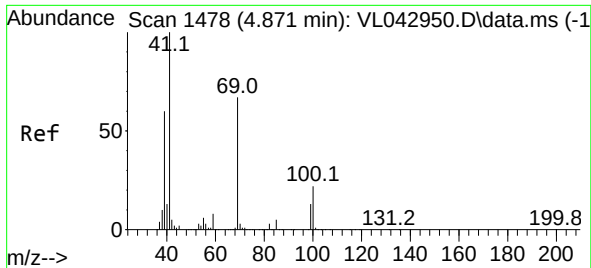
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#42
Bromodichloromethane
Concen: 0.501 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.006 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

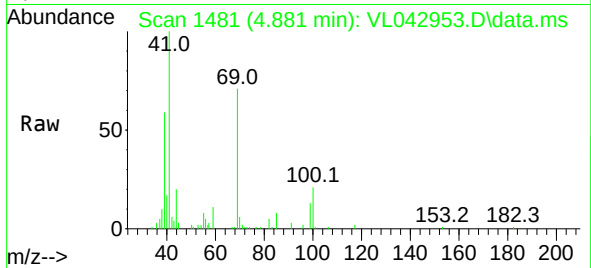
Tgt Ion: 83 Resp: 17552
Ion Ratio Lower Upper
83 100
85 58.1 49.0 73.6
127 6.6 5.3 7.9





#43
Methyl Methacrylate
Concen: 0.532 ppbv m
RT: 4.881 min Scan# 1478
Delta R.T. 0.010 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

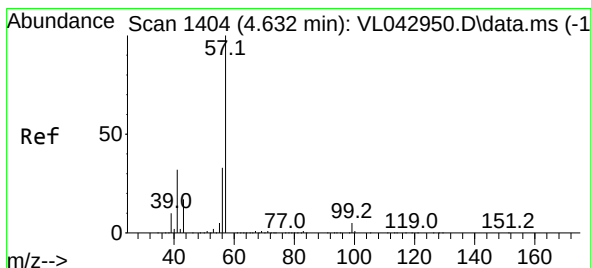
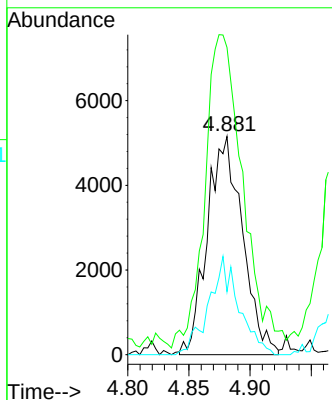
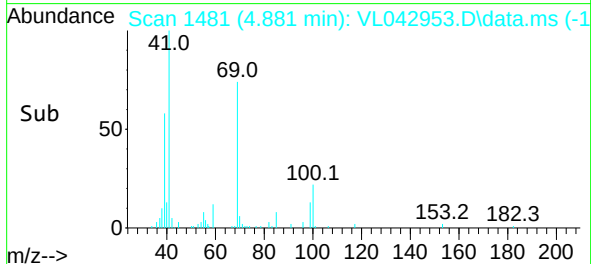
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



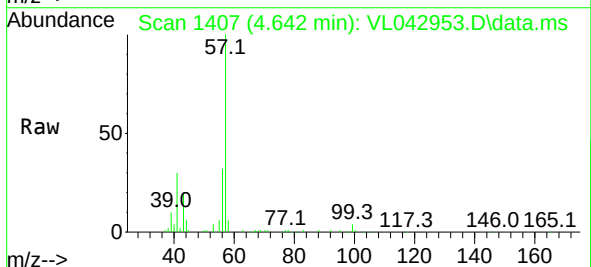
Tgt Ion: 69 Resp: 10330
Ion Ratio Lower Upper
69 100
41 151.9 124.5 186.7
100 38.3 29.0 43.6

Manual Integrations
APPROVED

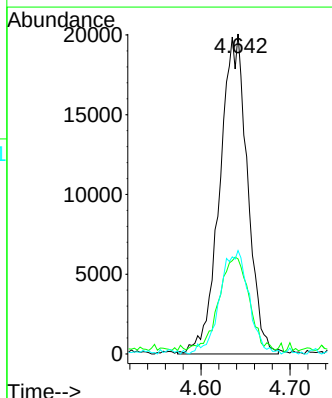
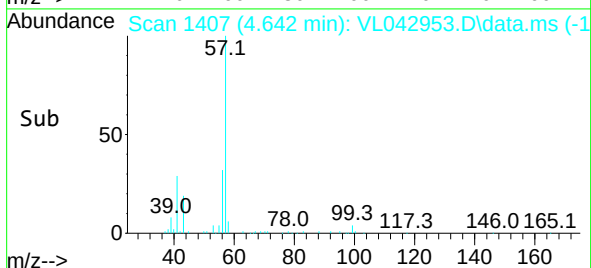
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

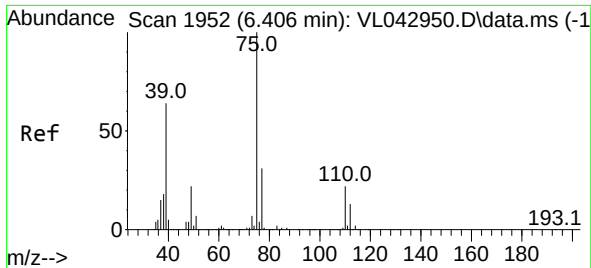


#44
2,2,4-Trimethylpentane
Concen: 0.525 ppbv m
RT: 4.642 min Scan# 1407
Delta R.T. 0.010 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22



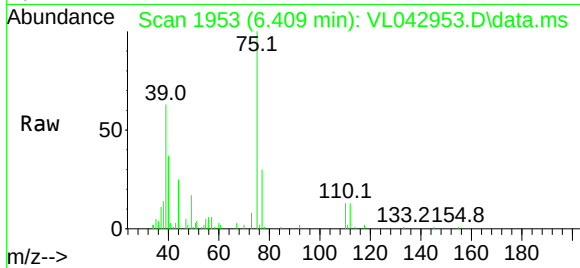
Tgt Ion: 57 Resp: 43414
Ion Ratio Lower Upper
57 100
41 31.9 25.5 38.3
56 33.8 25.8 38.8





#45
t-1,3-Dichloropropene
Concen: 0.492 ppbv m
RT: 6.409 min Scan# 1952
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

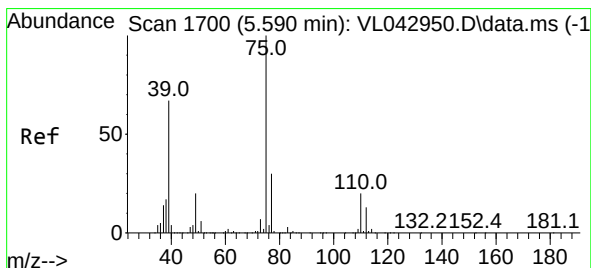
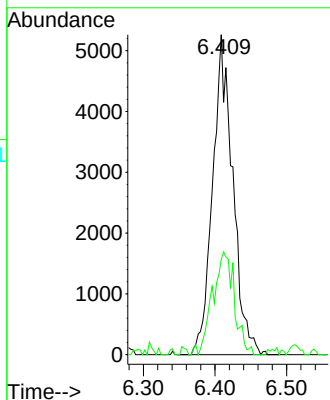
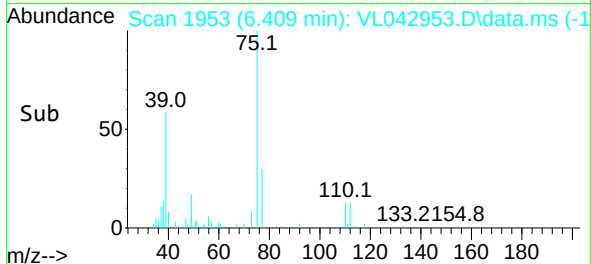
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 75 Resp: 1026
Ion Ratio Lower Upper
75 100
77 29.7 25.0 37.4

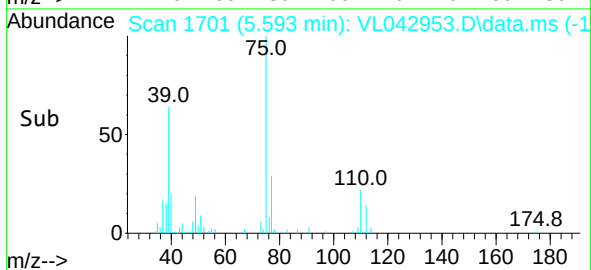
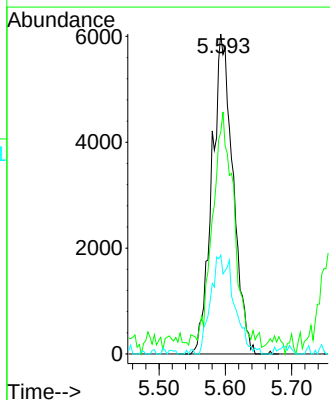
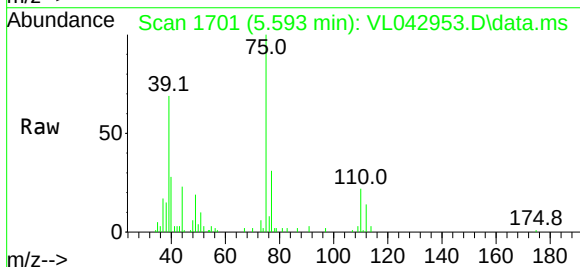
Manual Integrations
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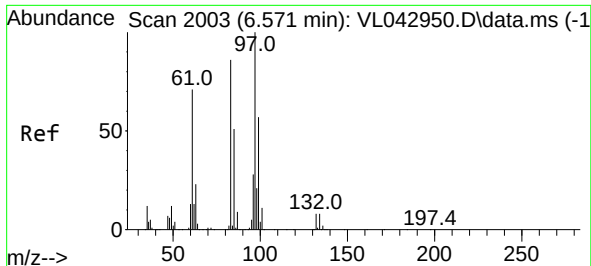
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#46
cis-1,3-Dichloropropene
Concen: 0.500 ppbv m
RT: 5.593 min Scan# 1701
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 75 Resp: 13304
Ion Ratio Lower Upper
75 100
39 69.3 53.8 80.6
77 30.9 23.6 35.4





#47

1,1,2-Trichloroethane

Concen: 0.527 ppbv m

RT: 6.580 min Scan# 2003

Delta R.T. 0.010 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

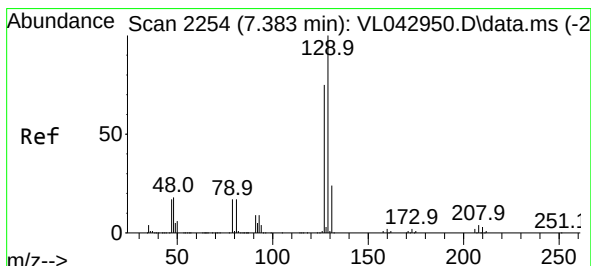
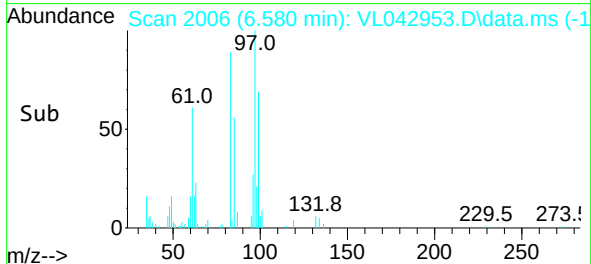
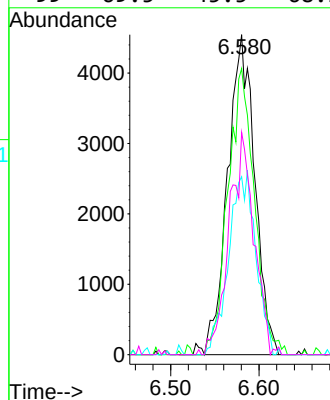
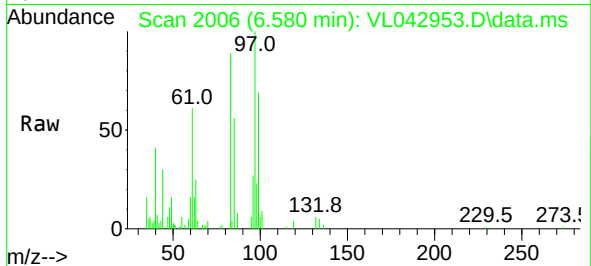
Tgt Ion	Ratio	Lower	Upper
97	100		
83	89.4	68.7	103.1
85	55.6	40.6	60.8
99	69.5	45.5	68.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#48

Dibromochloromethane

Concen: 0.493 ppbv

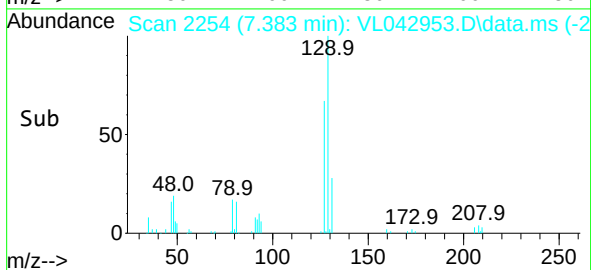
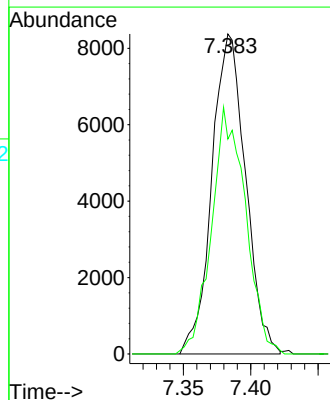
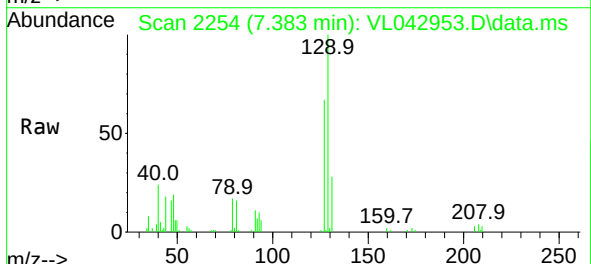
RT: 7.383 min Scan# 2254

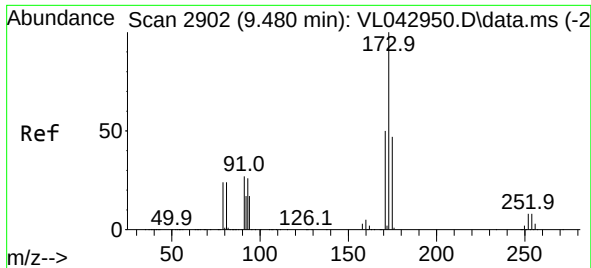
Delta R.T. -0.000 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

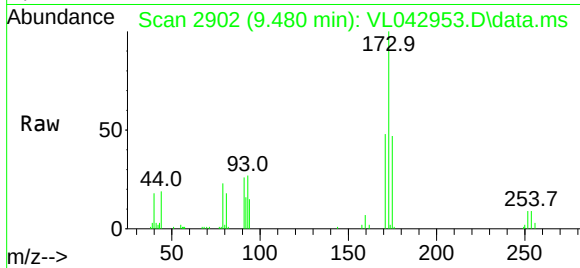
Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.1	117.2





#49
Bromoform
Concen: 0.473 ppbv
RT: 9.480 min Scan# 2902
Delta R.T. -0.000 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

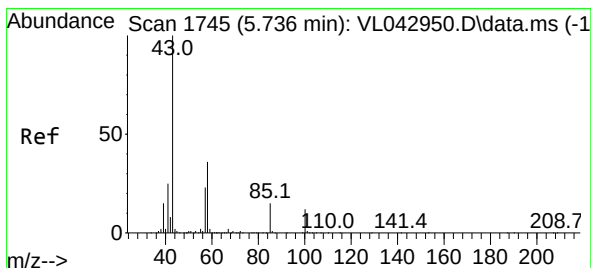
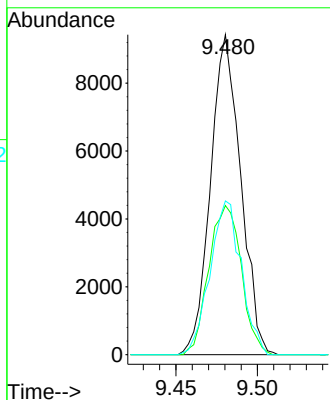
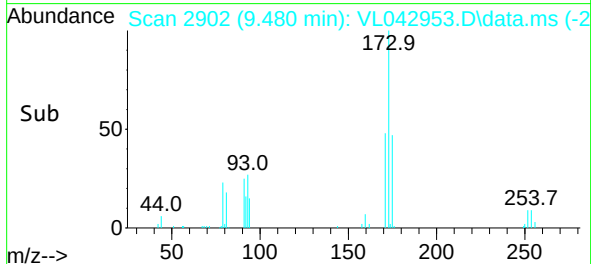
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



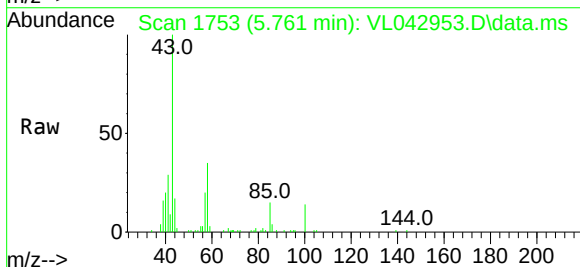
Tgt Ion: 173 Resp: 12130
Ion Ratio Lower Upper
173 100
175 50.2 37.9 56.9
171 49.8 41.1 61.7

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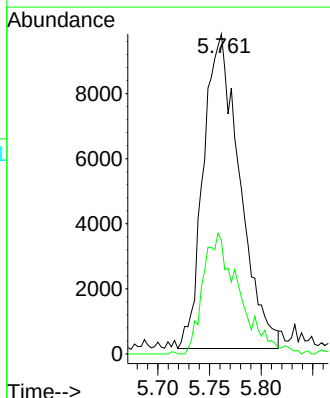
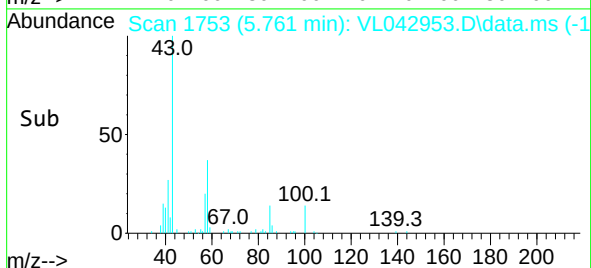
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

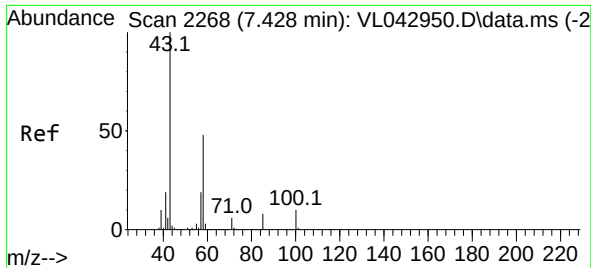


#50
4-Methyl-2-Pentanone
Concen: 0.493 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.026 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22



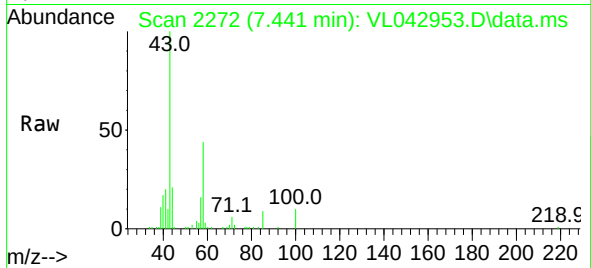
Tgt Ion: 43 Resp: 23639
Ion Ratio Lower Upper
43 100
58 38.5 28.4 42.6





#51
2-Hexanone
Concen: 0.480 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

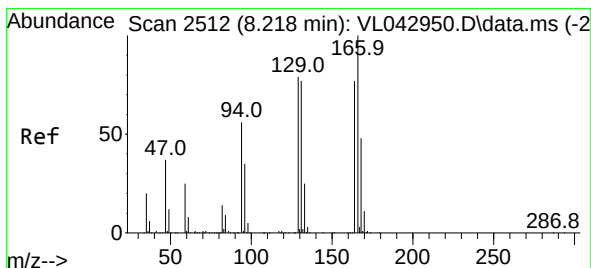
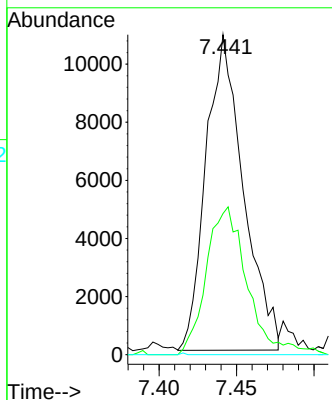
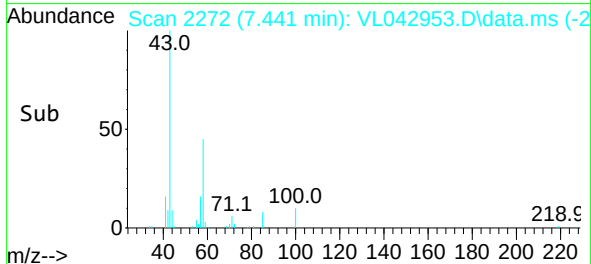
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 43 Resp: 1832
Ion Ratio Lower Upper
43 100
58 51.8 39.7 59.5
98 0.2 0.1 0.1

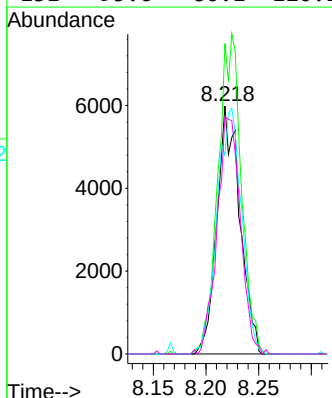
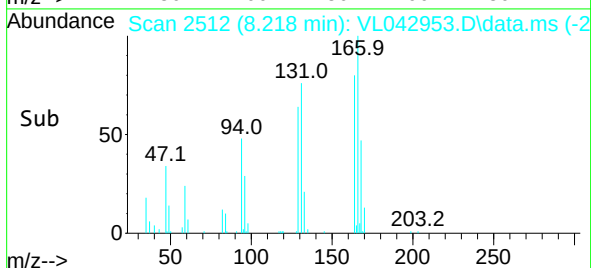
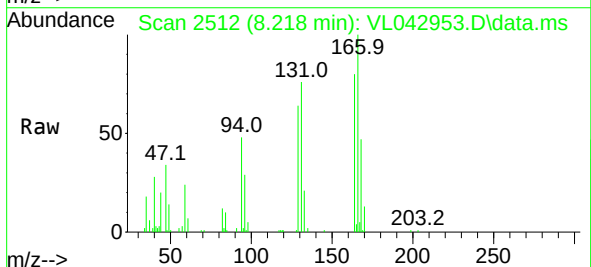
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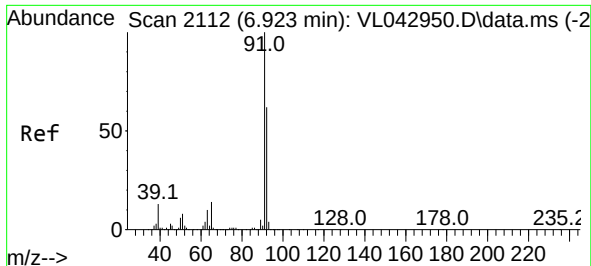
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#52
Tetrachloroethene
Concen: 0.490 ppbv m
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

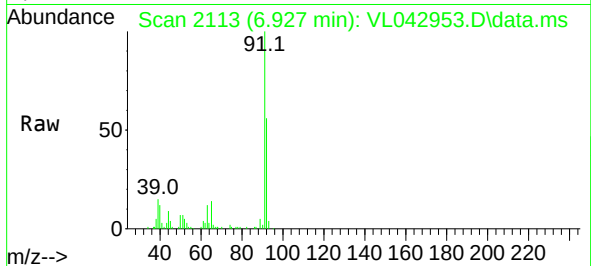
Tgt Ion:164 Resp: 9073
Ion Ratio Lower Upper
164 100
166 125.1 103.5 155.3
129 80.1 82.2 123.4#
131 95.6 80.1 120.1





#53
Toluene
Concen: 0.519 ppbv
RT: 6.927 min Scan# 2112
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

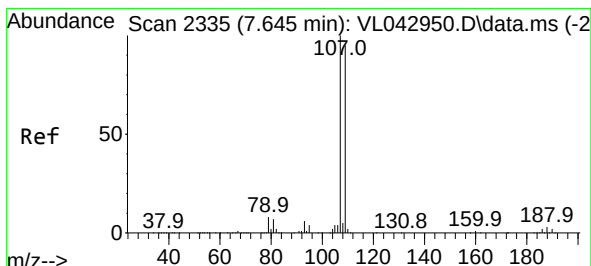
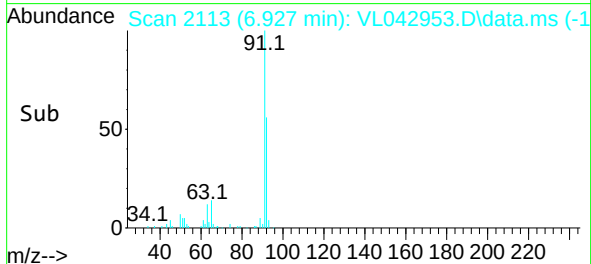
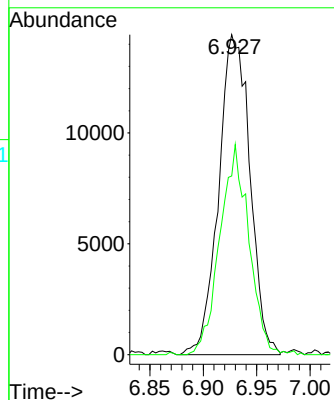
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 91 Resp: 29404
Ion Ratio Lower Upper
91 100
92 61.1 48.2 72.2

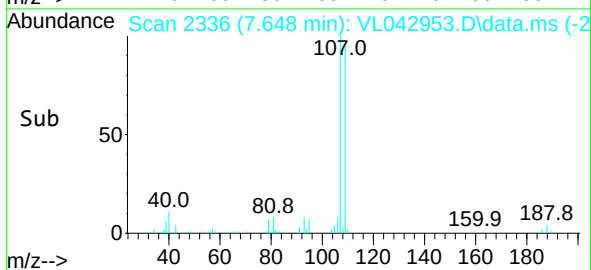
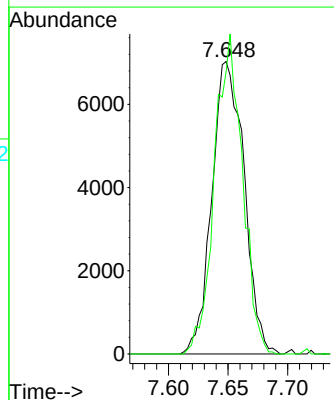
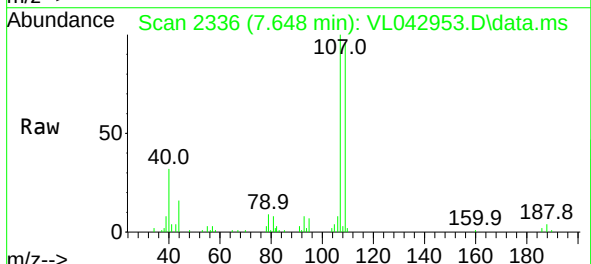
Manual Integrations
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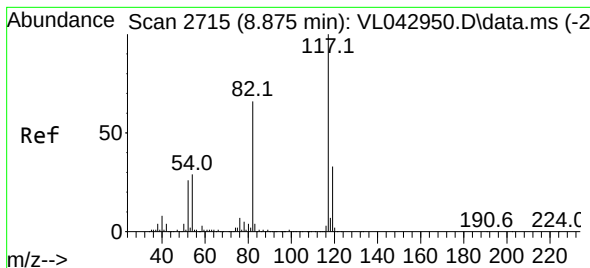
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#54
1,2-Dibromoethane
Concen: 0.510 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion:107 Resp: 13233
Ion Ratio Lower Upper
107 100
109 96.5 75.8 113.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

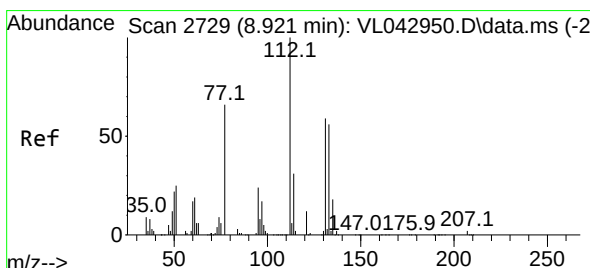
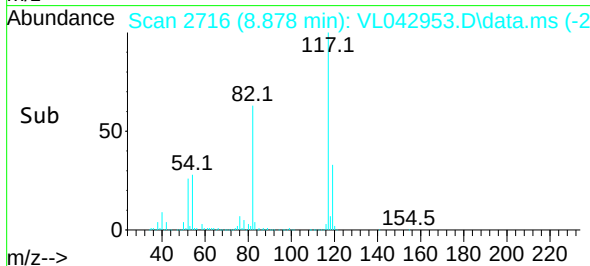
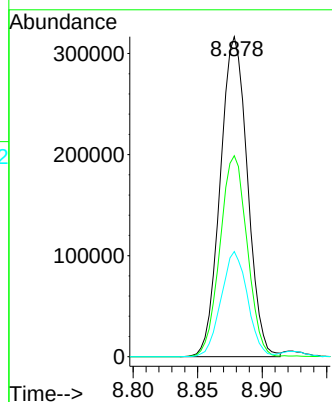
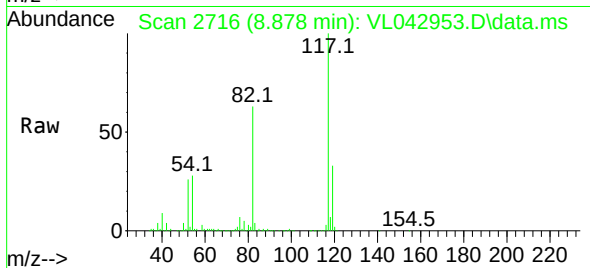
Tgt Ion:117 Resp: 46409

Ion	Ratio	Lower	Upper
117	100		
82	63.0	52.8	79.2
119	33.5	26.5	39.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 0.519 ppbv

RT: 8.924 min Scan# 2730

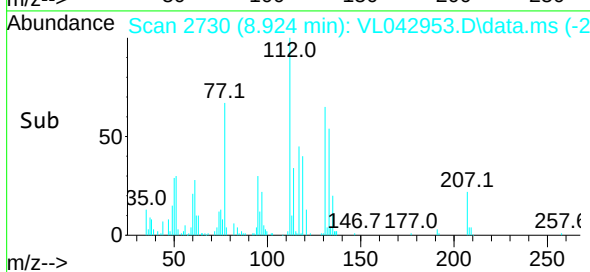
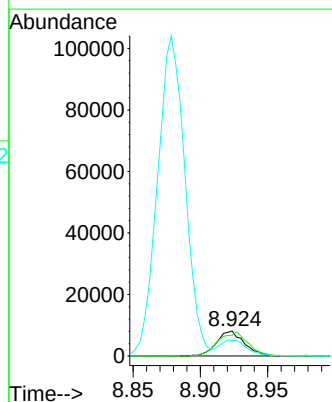
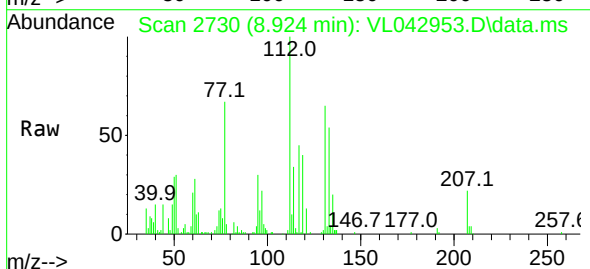
Delta R.T. 0.003 min

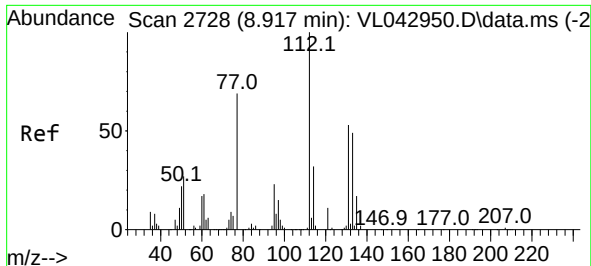
Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Tgt Ion:131 Resp: 11535

Ion	Ratio	Lower	Upper
131	100		
133	105.4	76.6	114.8
119	1350.8	49.9	74.9#





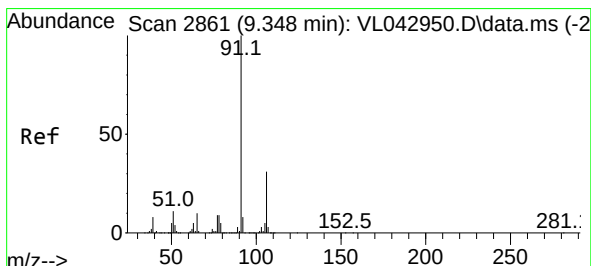
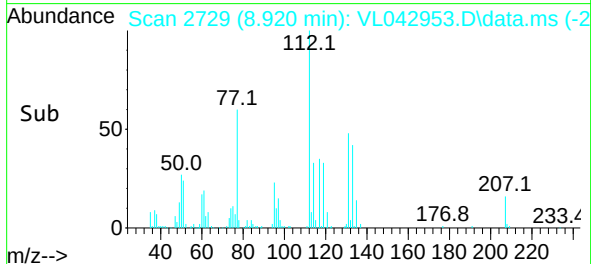
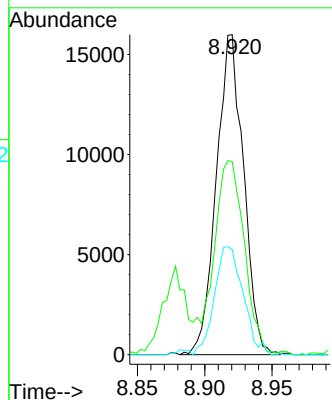
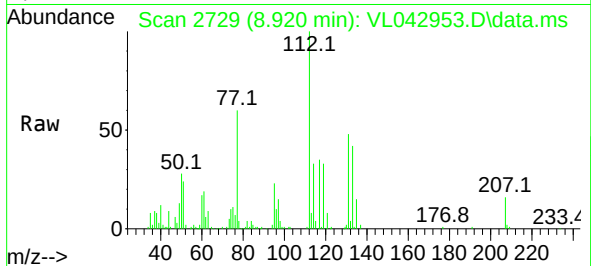
#57
Chlorobenzene
Concen: 0.530 ppbv
RT: 8.920 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 112 Resp: 2246
Ion Ratio Lower Upper
112 100
77 59.5 55.7 83.5
114 32.5 28.6 35.0

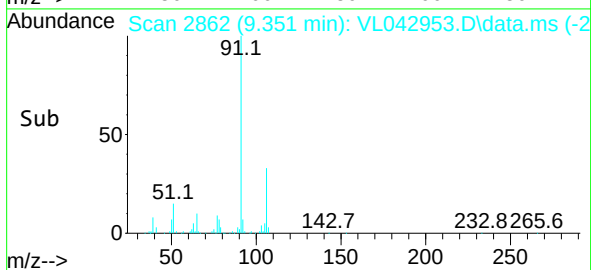
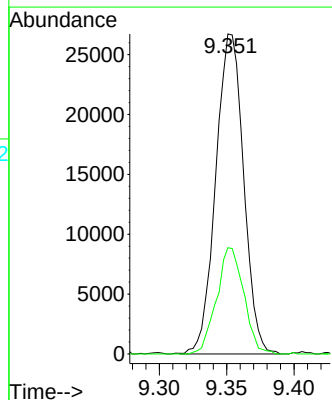
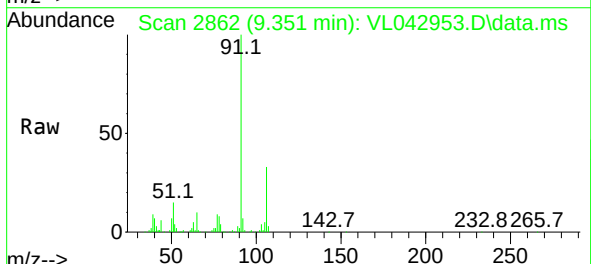
Manual Integrations
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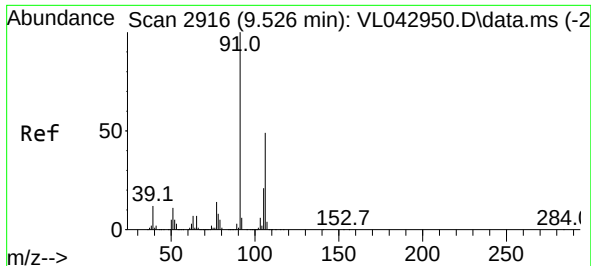
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#58
Ethyl Benzene
Concen: 0.505 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 91 Resp: 38459
Ion Ratio Lower Upper
91 100
106 33.2 24.6 37.0





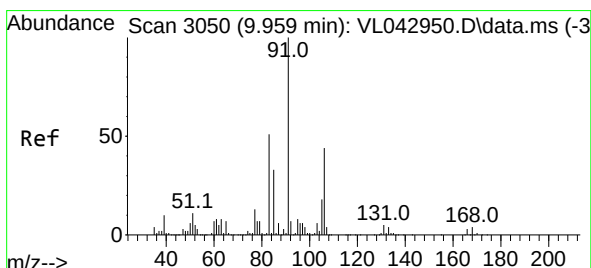
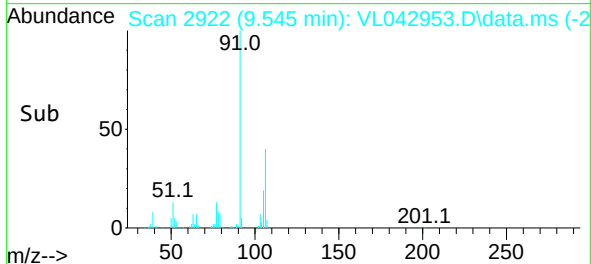
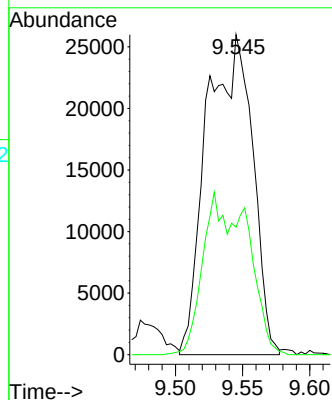
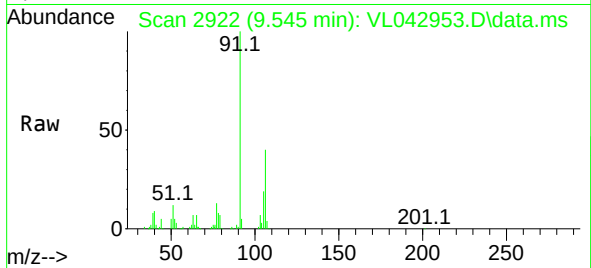
#59
m/p-Xylene
Concen: 1.028 ppbv m
RT: 9.545 min Scan# 2916
Delta R.T. 0.019 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 6180
Ion Ratio Lower Upper
91 100
106 49.3 0.0 0.0

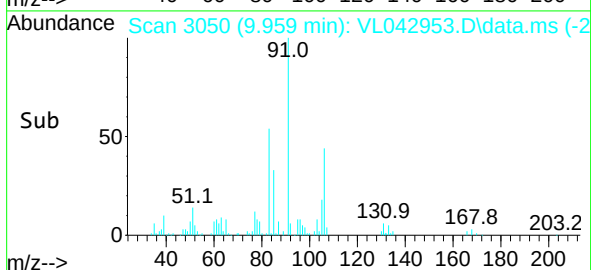
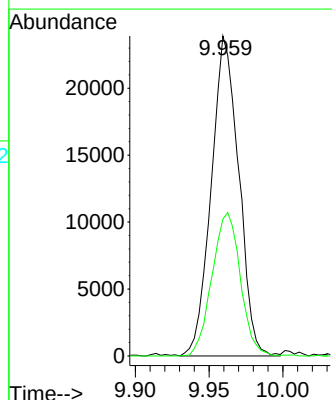
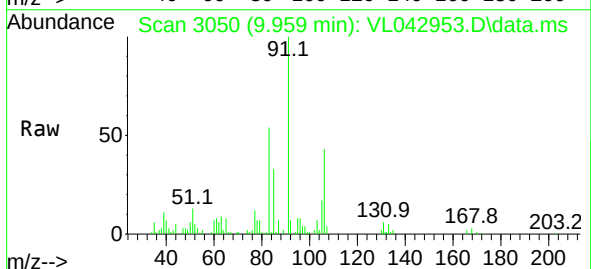
Manual Integrations
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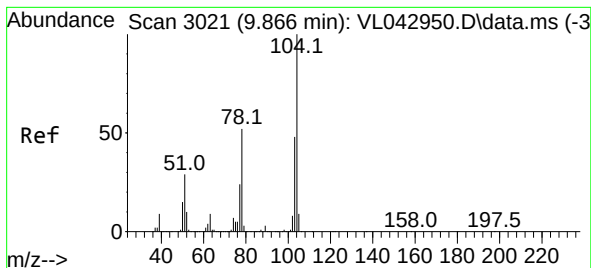
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#60
o-Xylene
Concen: 0.516 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 91 Resp: 30976
Ion Ratio Lower Upper
91 100
106 46.2 22.4 67.0





#61

Styrene

Concen: 0.495 ppbv

RT: 9.865 min Scan# 3021

Delta R.T. -0.000 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

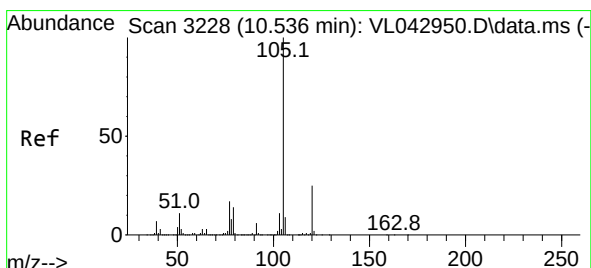
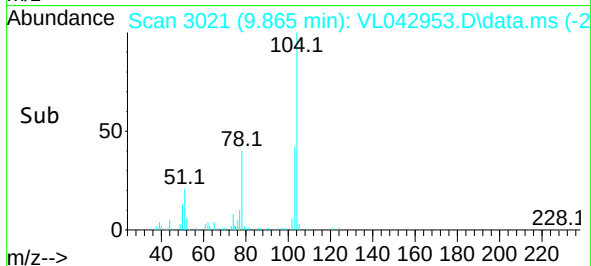
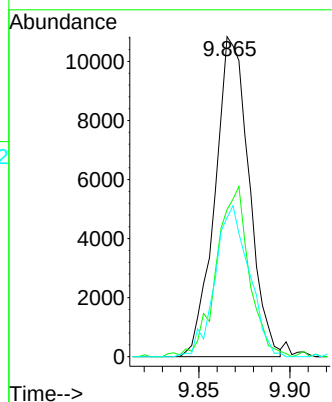
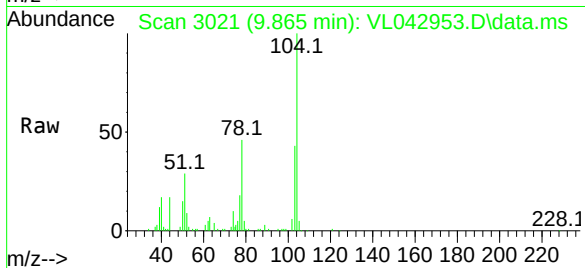
VSTDICC0.5

Tgt Ion:	104	Resp:	1404
Ion Ratio	Lower	Upper	
104	100		
78	51.8	39.9	59.9
103	47.6	36.9	55.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#62

Isopropylbenzene

Concen: 0.521 ppbv

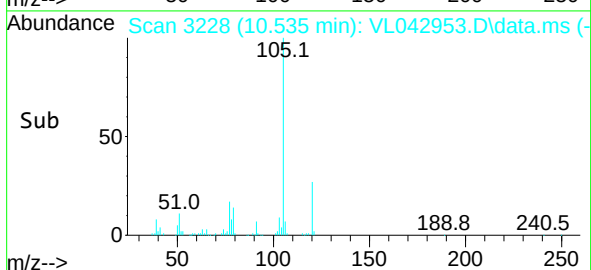
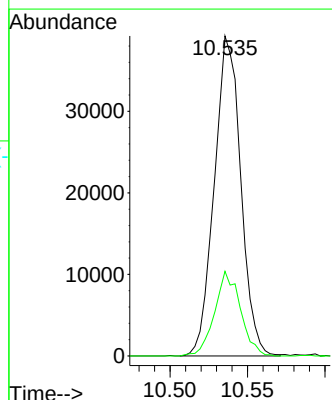
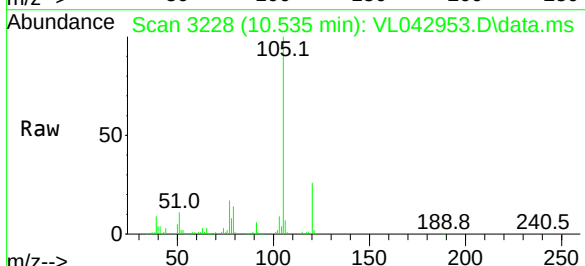
RT: 10.535 min Scan# 3228

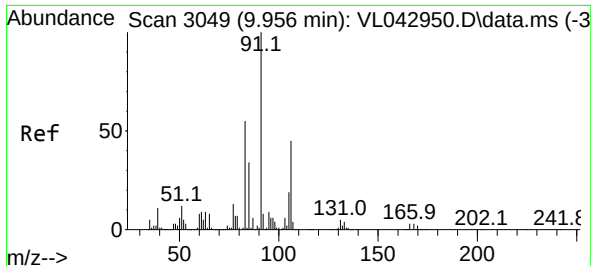
Delta R.T. -0.000 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Tgt Ion:	105	Resp:	46640
Ion Ratio	Lower	Upper	
105	100		
120	25.9	20.6	30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.506 ppbv

RT: 9.959 min Scan# 3049

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

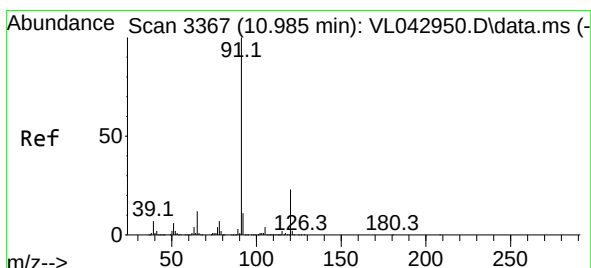
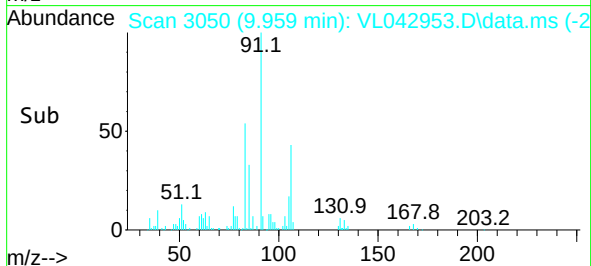
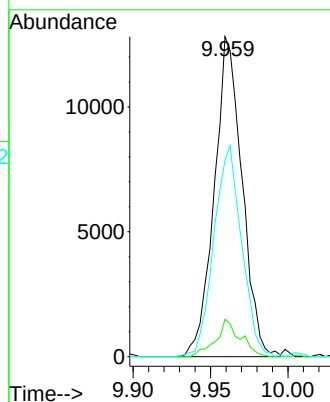
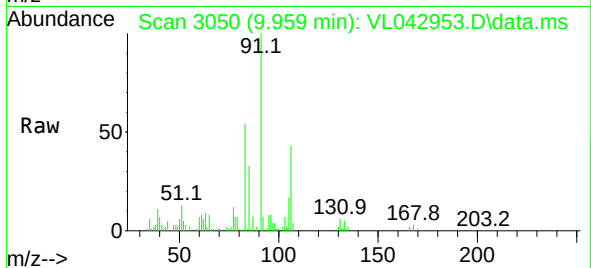
VSTDICC0.5

Tgt Ion: 83	Resp: 15974
Ion Ratio	Lower Upper
83 100	
131 10.4	4.8 14.4
85 66.6	32.2 96.6

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#64

n-propylbenzene

Concen: 0.527 ppbv

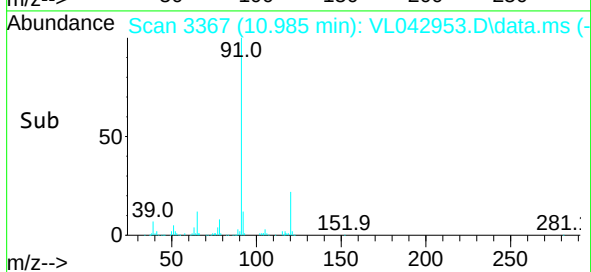
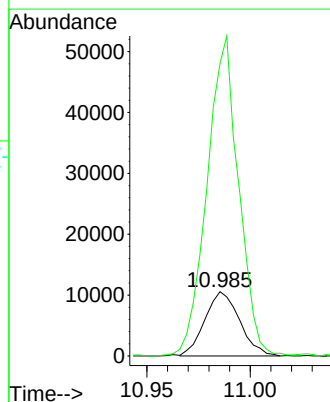
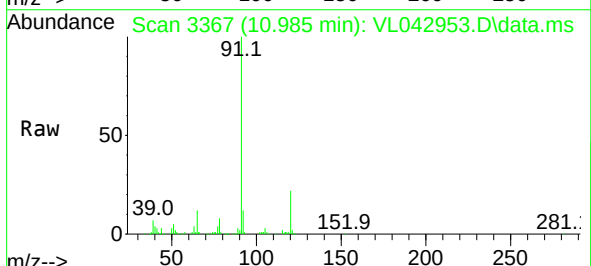
RT: 10.985 min Scan# 3367

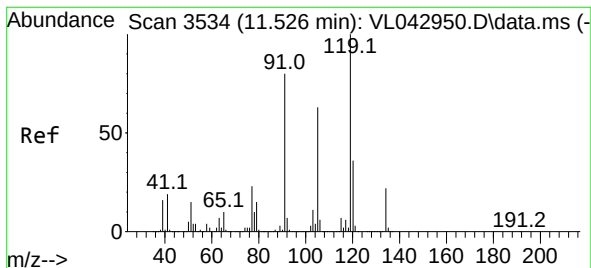
Delta R.T. -0.000 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

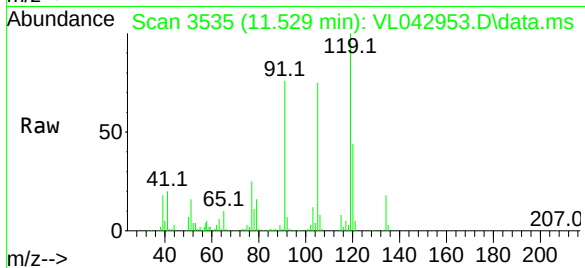
Tgt Ion:120	Resp: 12333
Ion Ratio	Lower Upper
120 100	
91 456.5	364.9 547.3





#65
tert-Butylbenzene
Concen: 0.535 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

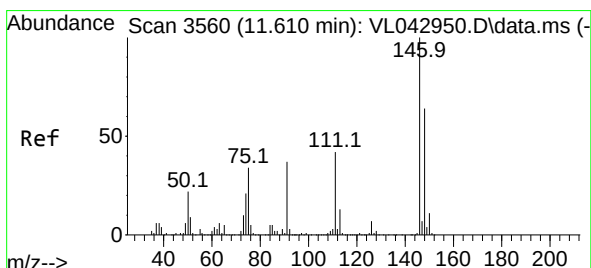
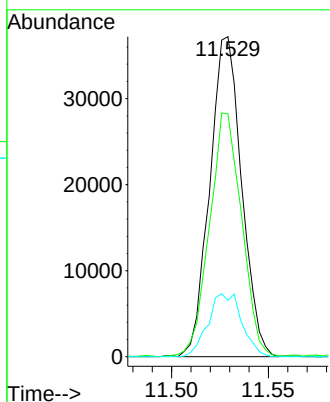
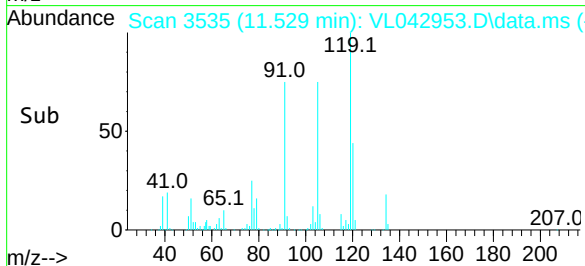
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



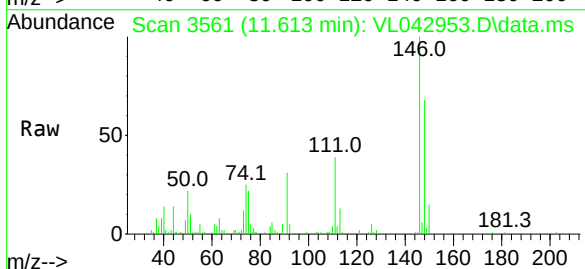
Tgt Ion: 119 Resp: 4259
Ion Ratio Lower Upper
119 100
91 77.7 63.1 94.7
134 20.9 17.0 25.6

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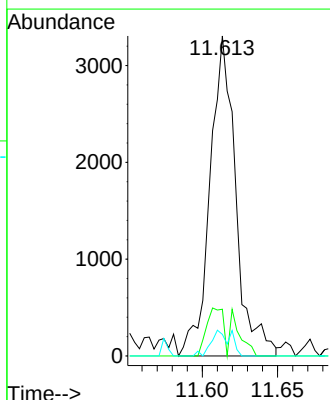
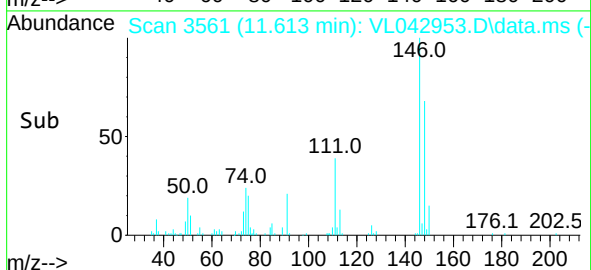
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

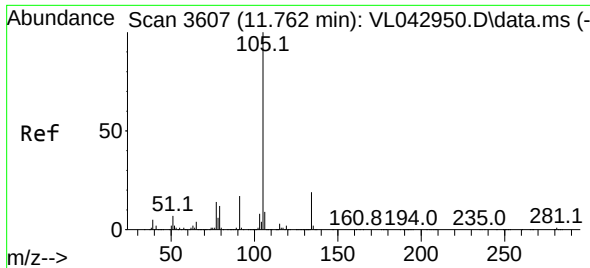


#66
Benzyl Chloride
Concen: 0.472 ppbv m
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22



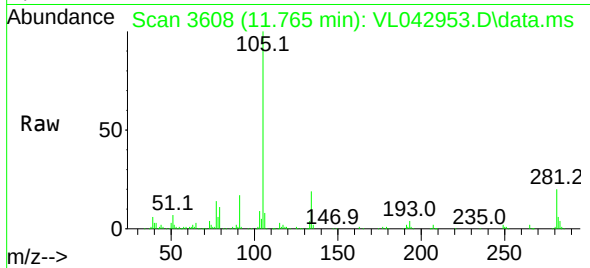
Tgt Ion: 91 Resp: 3942
Ion Ratio Lower Upper
91 100
126 15.3 14.6 21.8
128 6.1 5.0 7.4





#67
 sec-Butylbenzene
 Concen: 0.525 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. 0.003 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

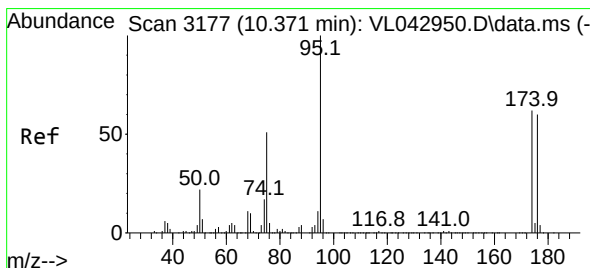
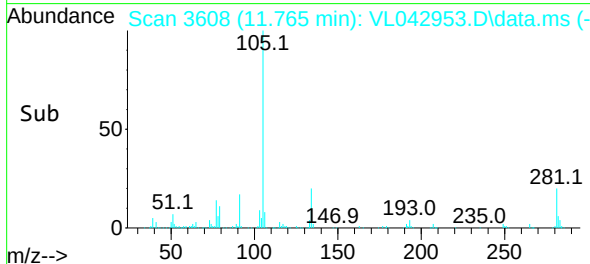
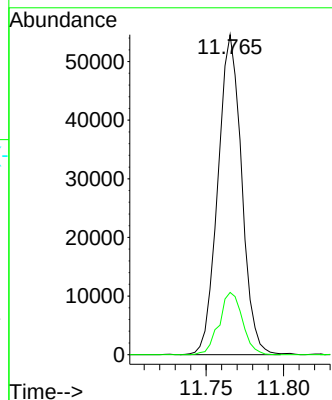
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:105 Resp: 58190
 Ion Ratio Lower Upper
 105 100
 134 19.1 15.7 23.5

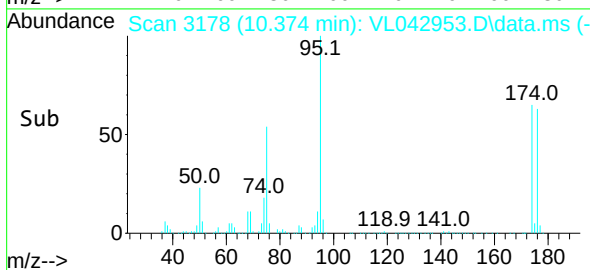
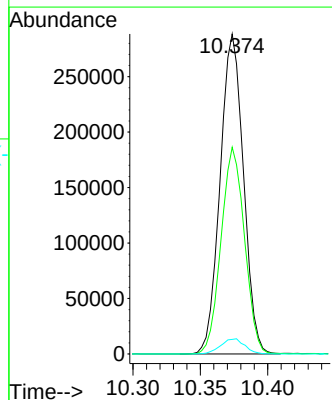
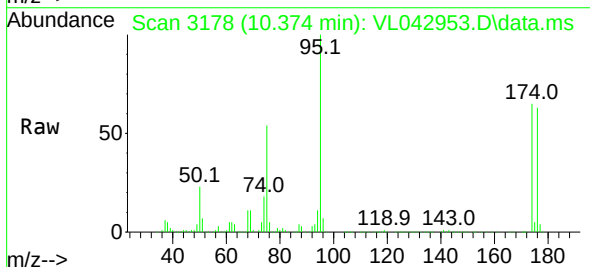
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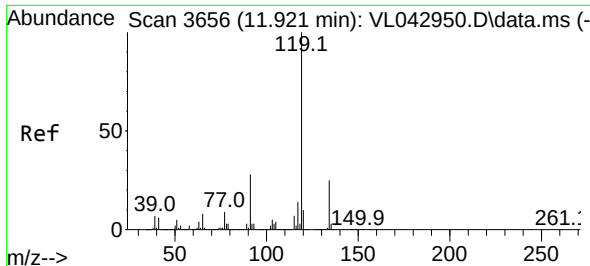
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.027 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

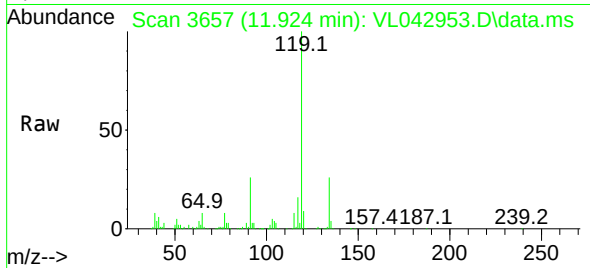
Tgt Ion: 95 Resp: 347374
 Ion Ratio Lower Upper
 95 100
 174 65.0 51.4 77.2
 175 4.9 4.0 6.0





#69
p-Isopropyltoluene
Concen: 0.521 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

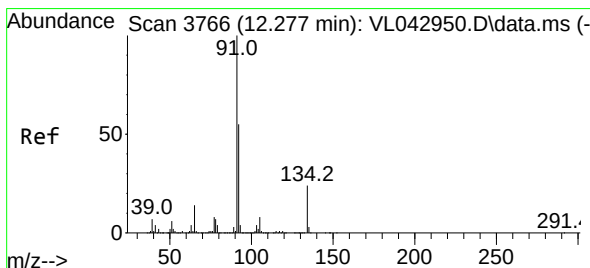
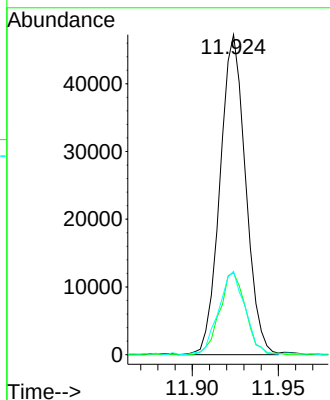
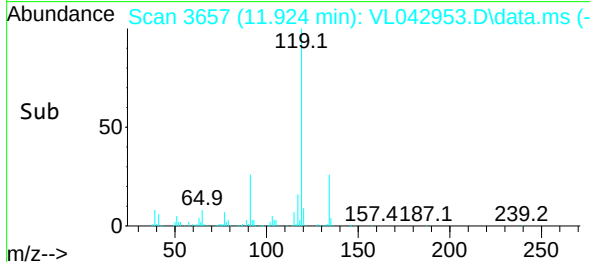
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



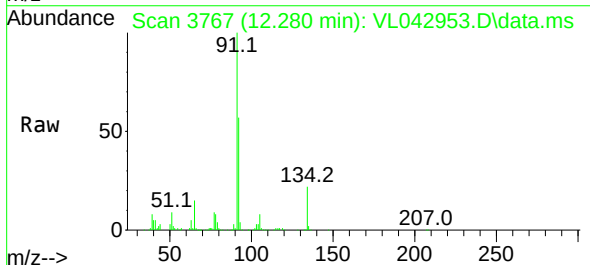
Tgt Ion: 119 Resp: 4885
Ion Ratio Lower Upper
119 100
134 26.0 21.0 31.4
91 28.2 22.3 33.5

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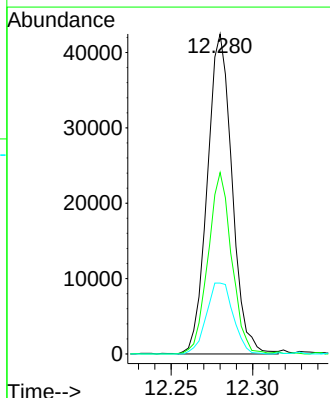
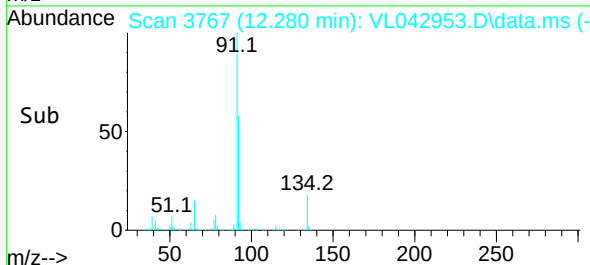
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

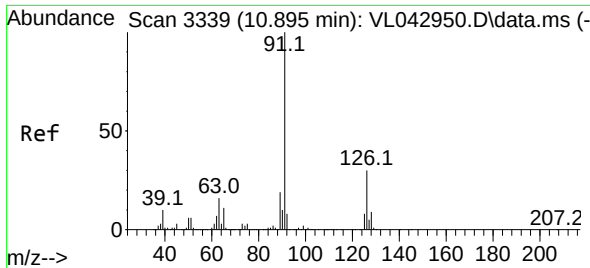


#70
n-Butylbenzene
Concen: 0.489 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22



Tgt Ion: 91 Resp: 44764
Ion Ratio Lower Upper
91 100
92 54.7 44.0 66.0
134 24.4 19.4 29.2





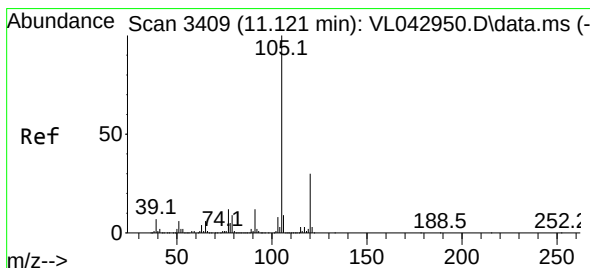
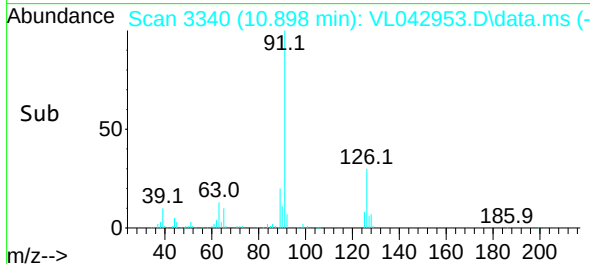
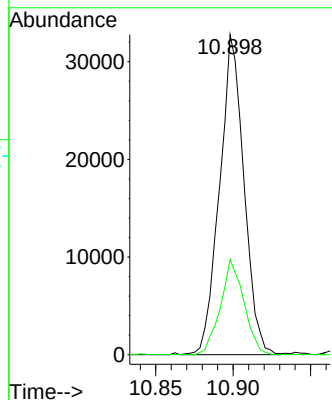
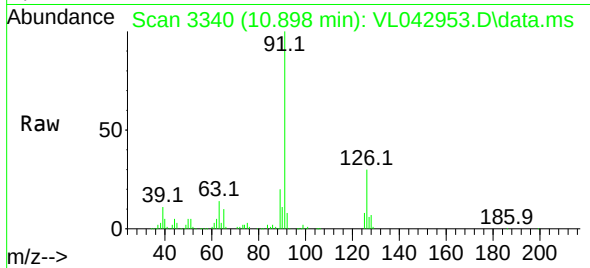
#71
2-Chlorotoluene
Concen: 0.530 ppbv
RT: 10.898 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 3579
Ion Ratio Lower Upper
91 100
126 28.7 12.3 49.3

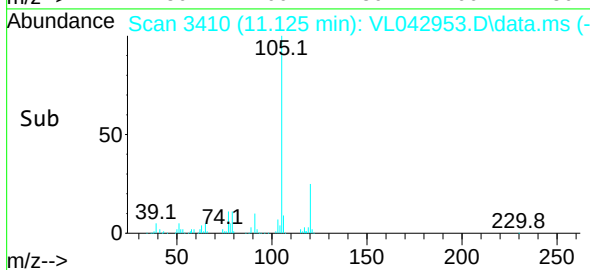
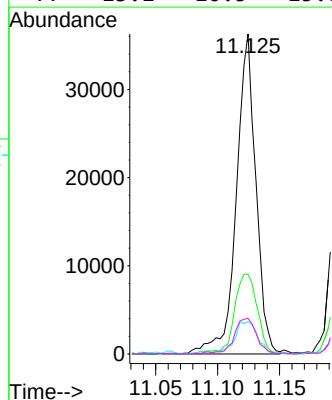
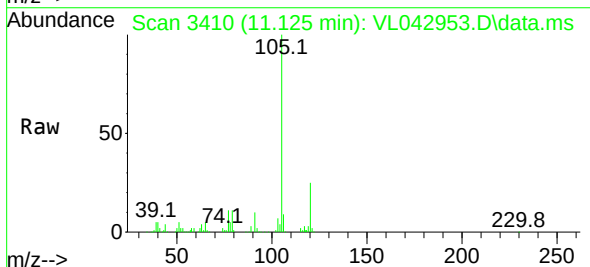
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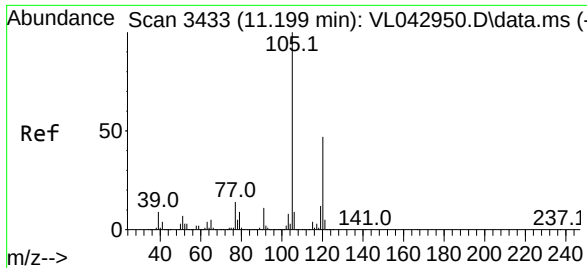
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#72
4-Ethyltoluene
Concen: 0.529 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

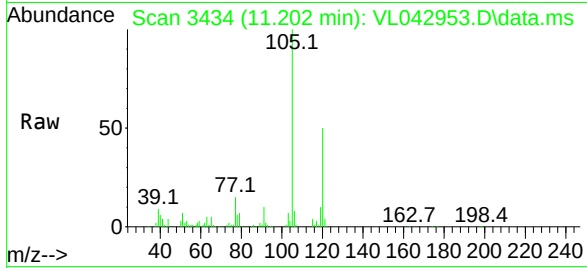
Tgt Ion:105 Resp: 39803
Ion Ratio Lower Upper
105 100
120 29.5 24.2 36.2
91 12.5 10.0 15.0
77 13.1 10.5 15.7





#73
1,3,5-Trimethylbenzene
Concen: 0.507 ppbv
RT: 11.202 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

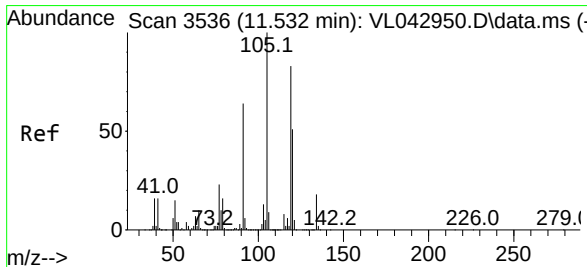
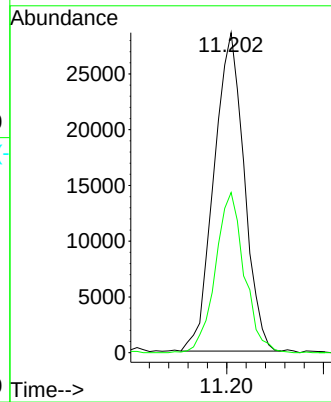
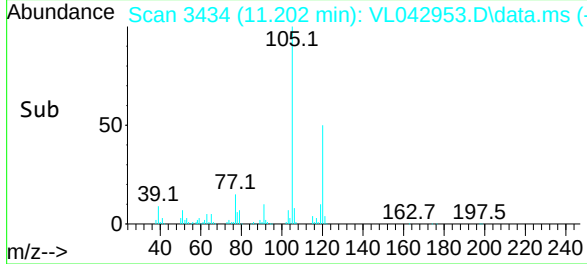
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



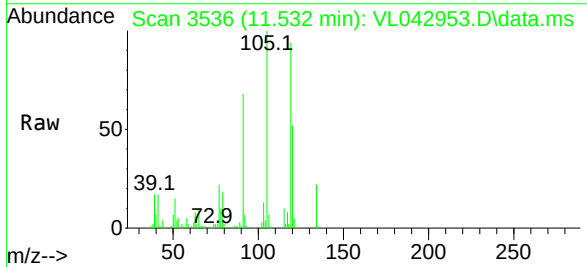
Tgt Ion:105 Resp: 30932
Ion Ratio Lower Upper
105 100
120 50.1 38.0 57.0

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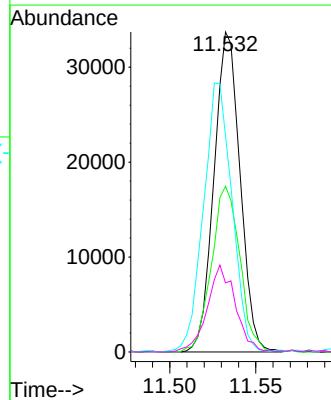
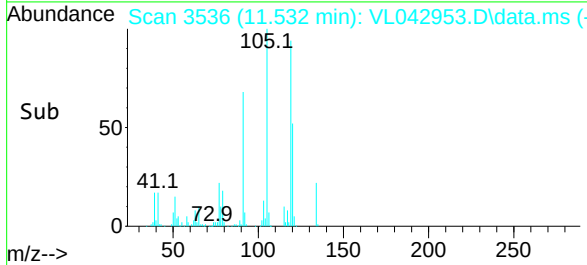
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

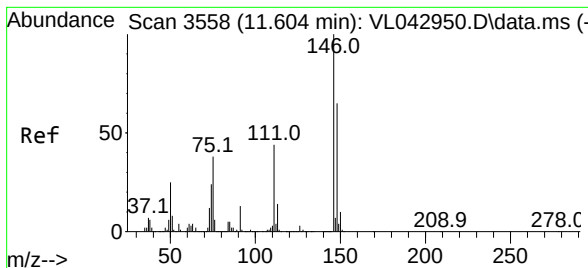


#74
1,2,4-Trimethylbenzene
Concen: 0.529 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.000 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22



Tgt Ion:105 Resp: 35601
Ion Ratio Lower Upper
105 100
120 51.8 40.9 61.3
91 66.9 51.2 76.8
77 21.3 18.4 27.6





#75

1,3-Dichlorobenzene

Concen: 0.510 ppbv

RT: 11.607 min Scan# 3558

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

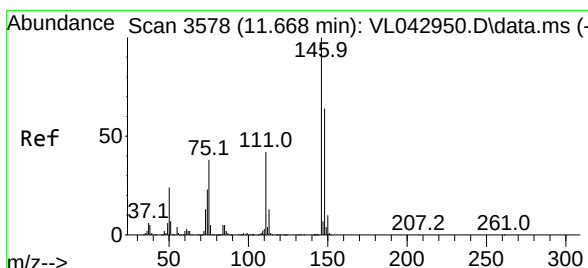
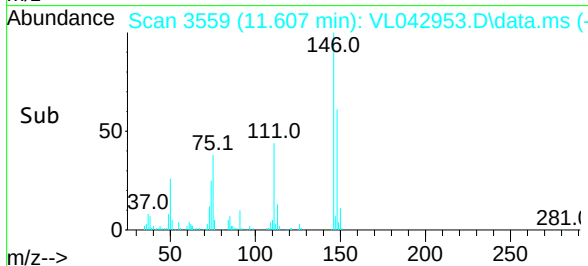
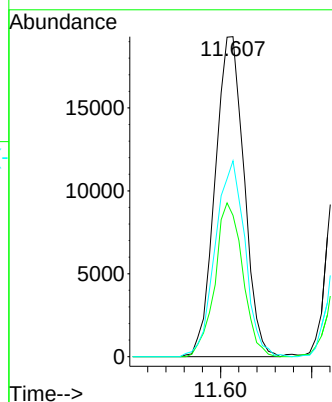
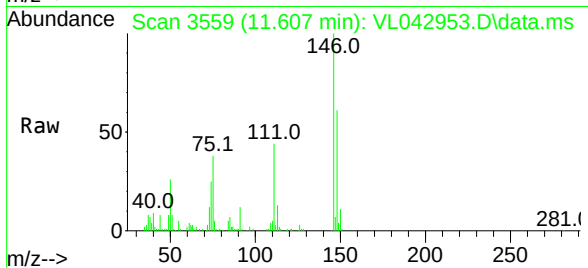
VSTDIC0.5

Tgt Ion:146	Resp:	2130
Ion Ratio	Lower	Upper
146	100	
111	45.9	22.3 66.9
148	62.7	31.9 95.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#76

1,4-Dichlorobenzene

Concen: 0.516 ppbv

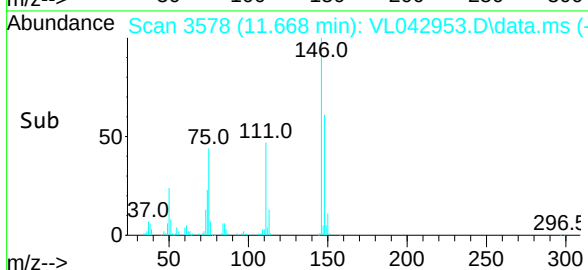
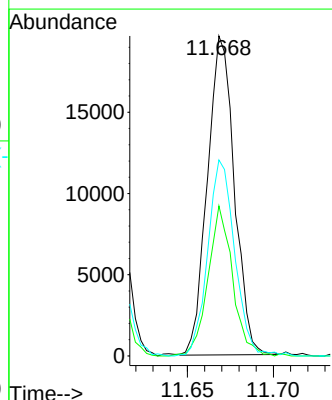
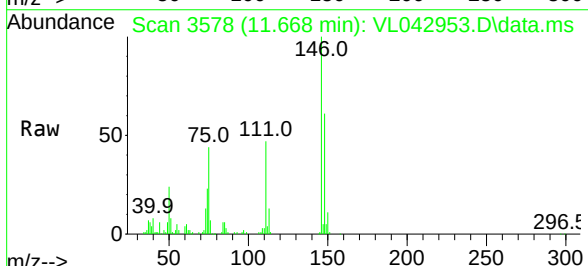
RT: 11.668 min Scan# 3578

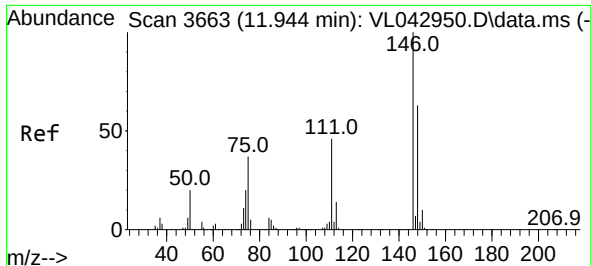
Delta R.T. -0.000 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Tgt Ion:146	Resp:	21404
Ion Ratio	Lower	Upper
146	100	
111	42.9	21.5 64.5
148	61.6	31.9 95.5





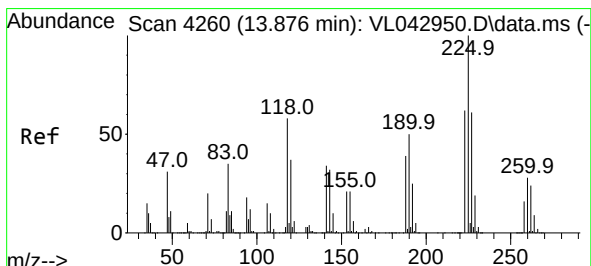
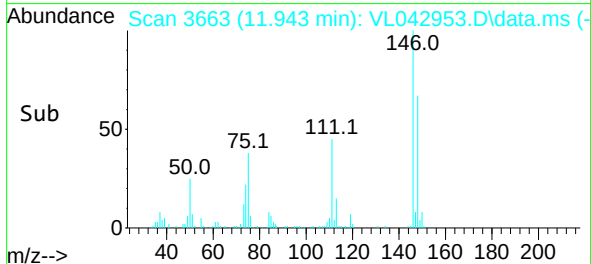
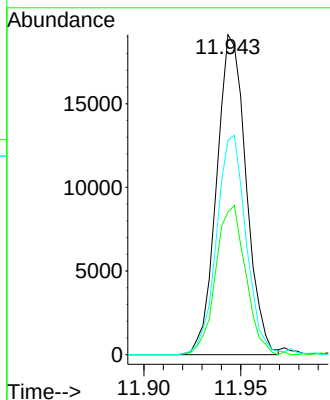
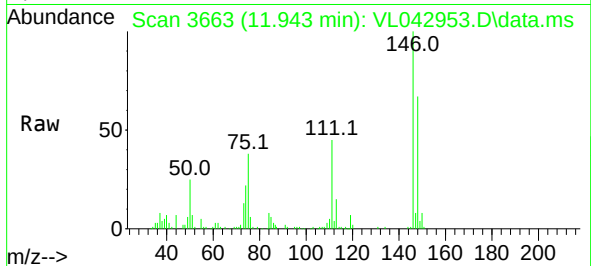
#77
1,2-Dichlorobenzene
Concen: 0.510 ppbv
RT: 11.943 min Scan# 3663
Delta R.T. -0.000 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:146 Resp: 20279
Ion Ratio Lower Upper
146 100
111 47.5 23.1 69.3
148 69.3 32.0 96.0

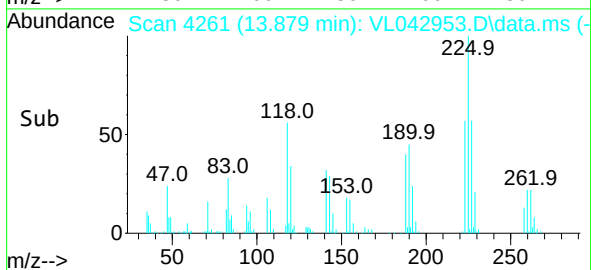
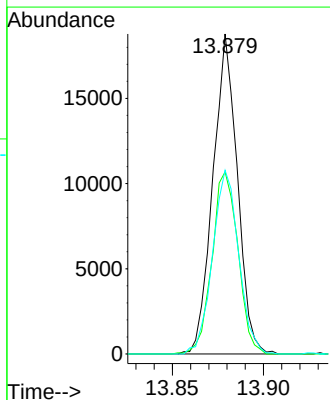
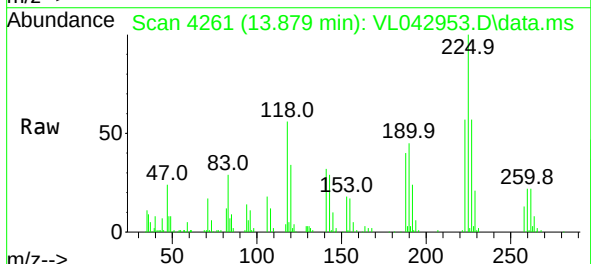
Manual Integrations
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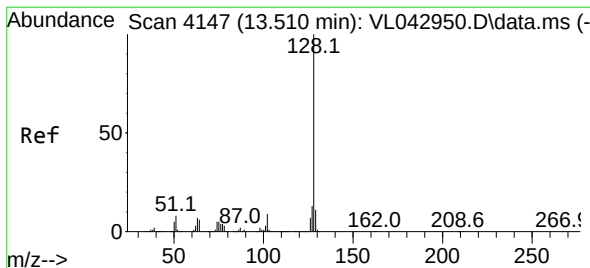
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#78
Hexachloro-1,3-Butadiene
Concen: 0.563 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion:225 Resp: 17515
Ion Ratio Lower Upper
225 100
223 60.4 50.1 75.1
227 61.5 50.4 75.6





#79

Naphthalene

Concen: 0.429 ppbv

RT: 13.510 min Scan# 4147

Delta R.T. -0.000 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

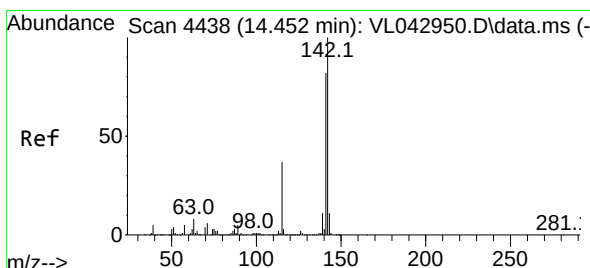
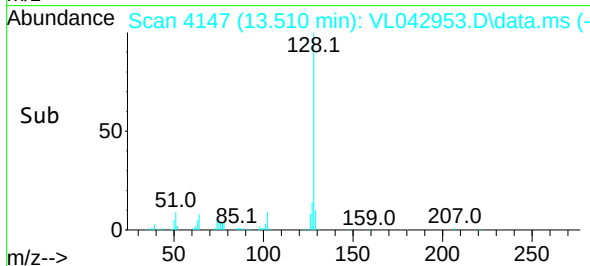
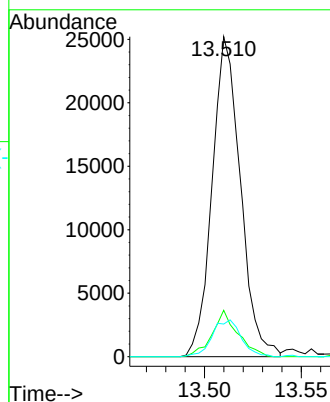
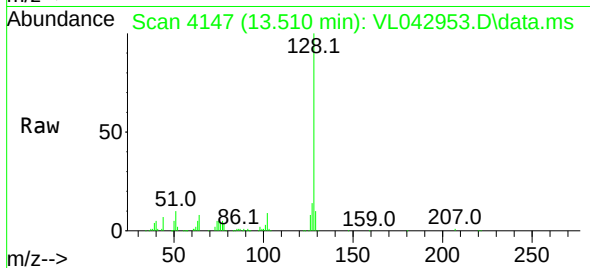
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.6	15.8
129	10.2	9.0	13.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#80

Naphthalene,2-methyl-

Concen: 0.484 ppbv

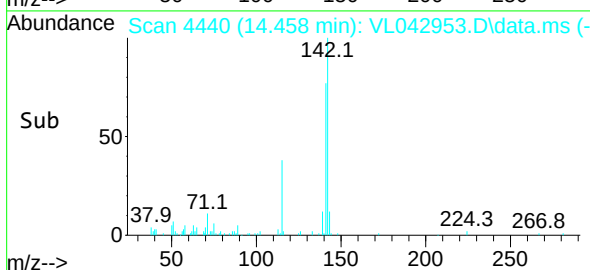
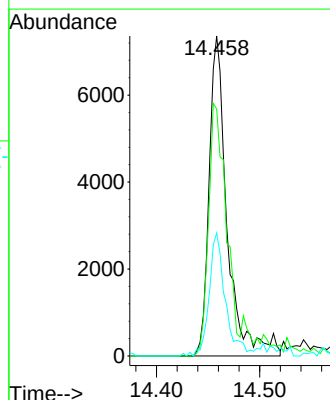
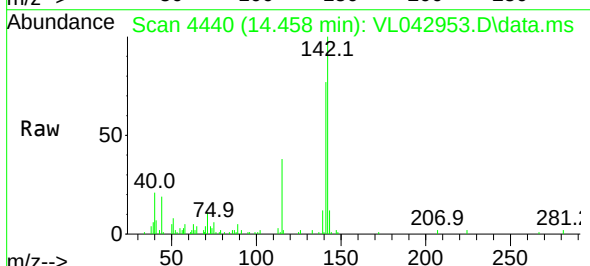
RT: 14.458 min Scan# 4440

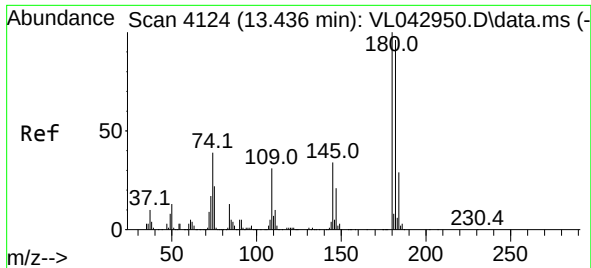
Delta R.T. 0.006 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

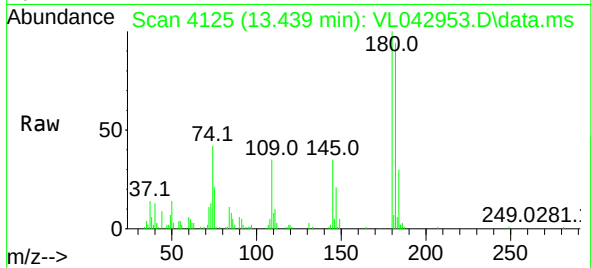
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.9	65.1	97.7
115	35.4	28.9	43.3





#81
 1,2,4-Trichlorobenzene
 Concen: 0.406 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

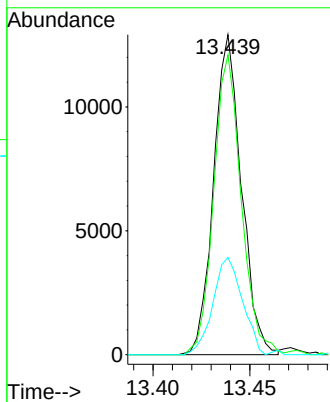
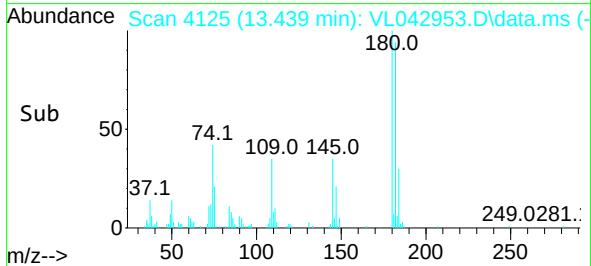
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:180	Resp:	12920
Ion Ratio	Lower	Upper
180	100	
182	93.3	75.7 113.5
184	32.6	23.9 35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042954.D
 Acq On : 22 Sep 2025 11:56
 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 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:12:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 22 2025
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	163771	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	498673	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	457171	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	337196	9.881	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	920	0.102	ppbv #	75
32) 1,1,1-Trichloroethane	3.370	97	3418	0.098	ppbv	96
35) Carbon Tetrachloride	3.764	117	3071m	0.096	ppbv	
38) Trichloroethene	4.541	130	2470m	0.106	ppbv	
52) Tetrachloroethene	8.228	164	2013m	0.111	ppbv	
54) 1,2-Dibromoethane	7.655	107	2595m	0.102	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3301	0.106	ppbv	97
79) Naphthalene	13.516	128	4997m	0.085	ppbv	

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

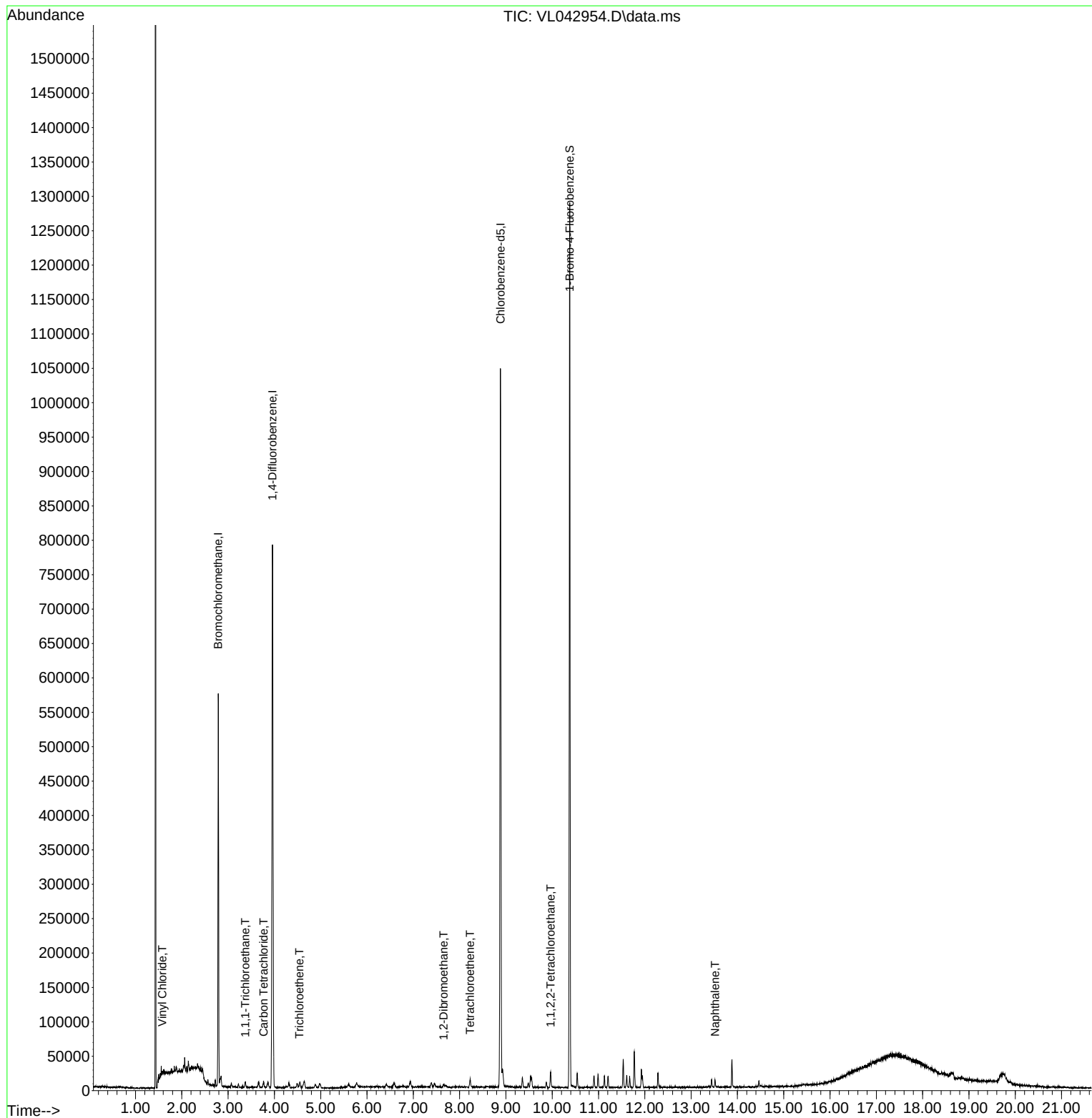
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042954.D
Acq On : 22 Sep 2025 11:56
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

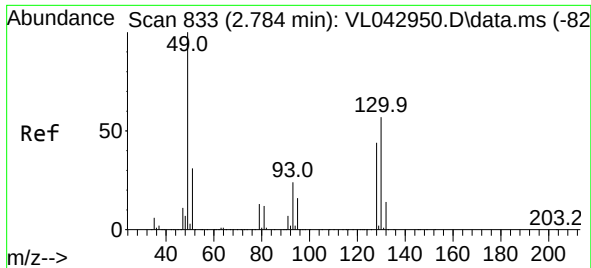
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

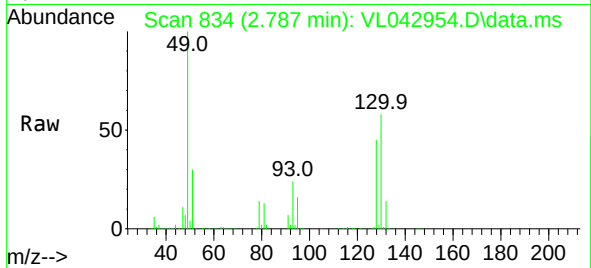
Quant Time: Sep 23 02:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

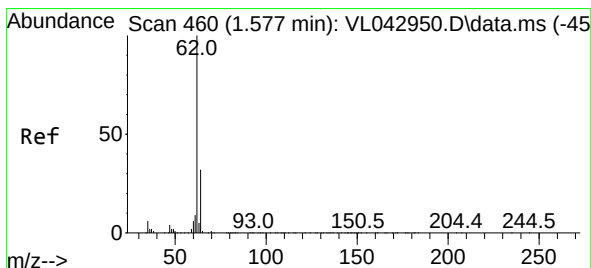
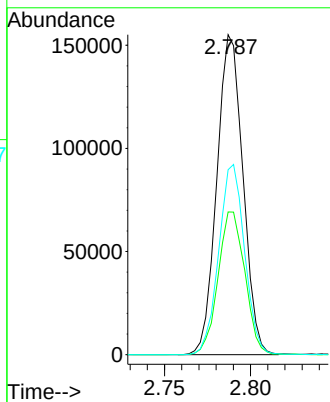
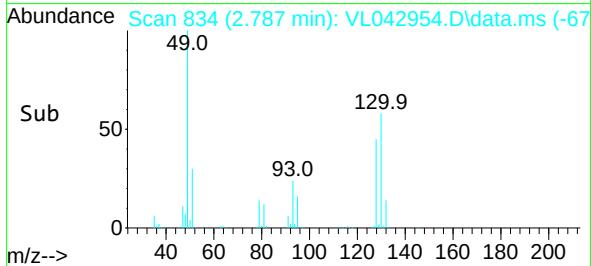
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion: 49 Resp: 16377
Ion Ratio Lower Upper
49 100
128 45.9 22.9 68.8
130 59.0 29.1 87.3

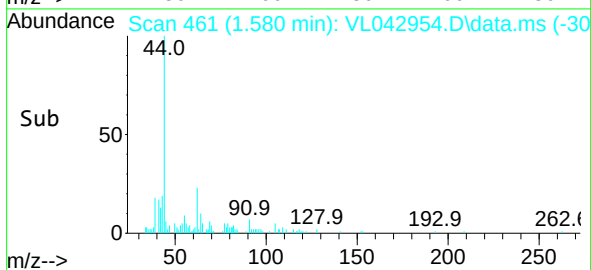
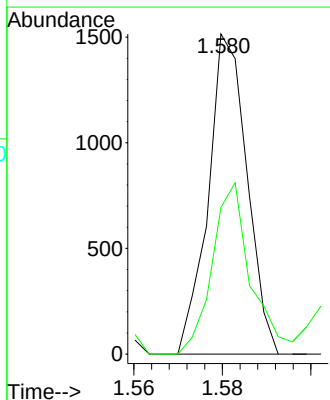
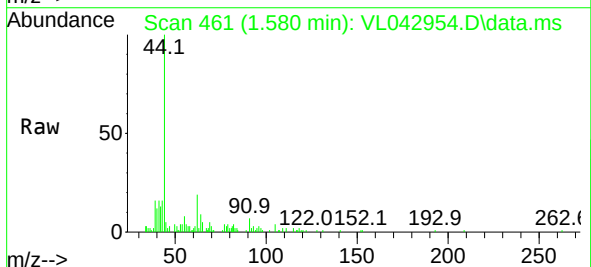
Manual Integrations
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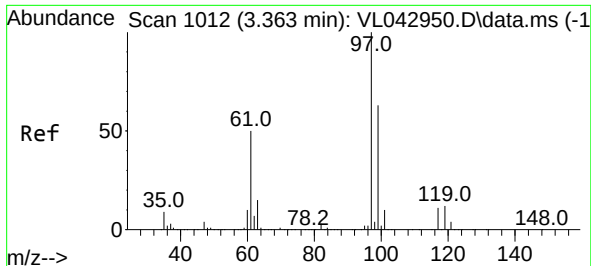
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#5
Vinyl Chloride
Concen: 0.102 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion: 62 Resp: 920
Ion Ratio Lower Upper
62 100
64 45.7 25.4 38.2#





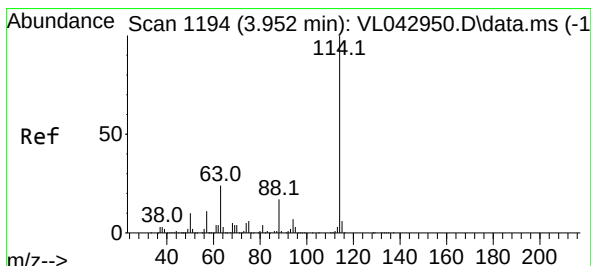
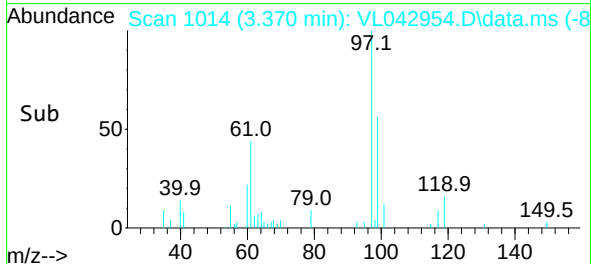
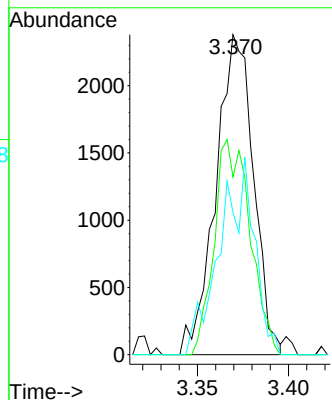
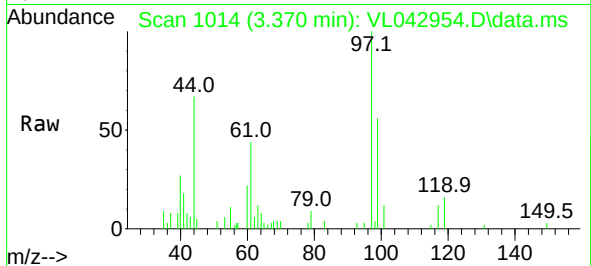
#32
 1,1,1-Trichloroethane
 Concen: 0.098 ppbv
 RT: 3.370 min Scan# 1012
 Delta R.T. 0.006 min
 Lab File: VL042954.D
 Acq: 22 Sep 2025 11:56

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

Tgt Ion: 97 Resp: 3418
 Ion Ratio Lower Upper
 97 100
 99 63.9 51.1 76.7
 61 56.2 39.8 59.6

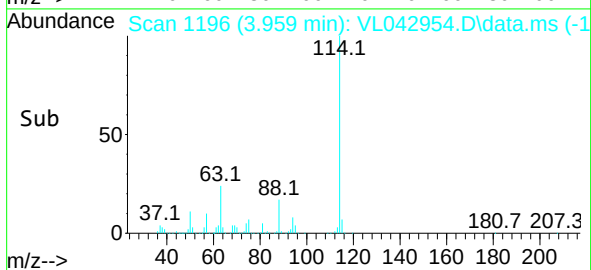
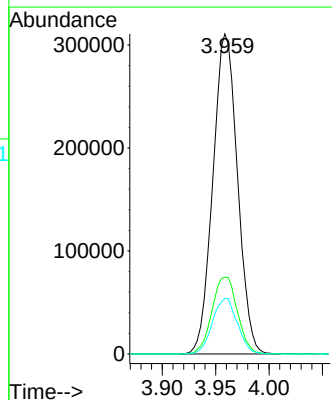
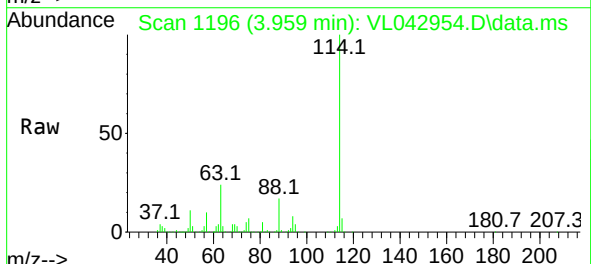
Manual Integrations
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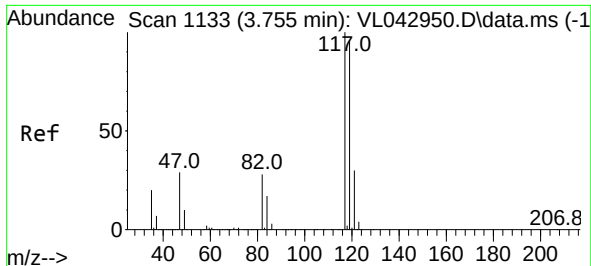
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. 0.006 min
 Lab File: VL042954.D
 Acq: 22 Sep 2025 11:56

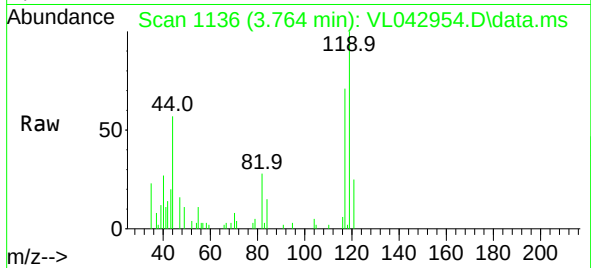
Tgt Ion:114 Resp: 498673
 Ion Ratio Lower Upper
 114 100
 63 24.8 19.4 29.2
 88 17.5 14.2 21.2





#35
Carbon Tetrachloride
Concen: 0.096 ppbv m
RT: 3.764 min Scan# 1133
Delta R.T. 0.010 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

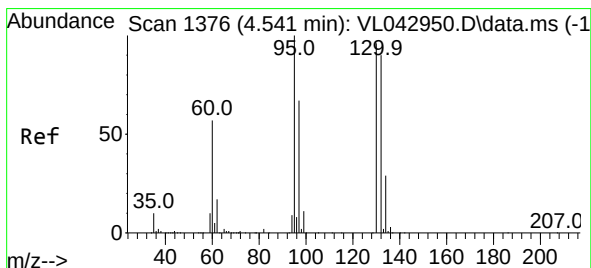
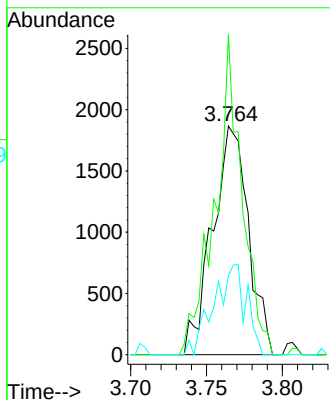
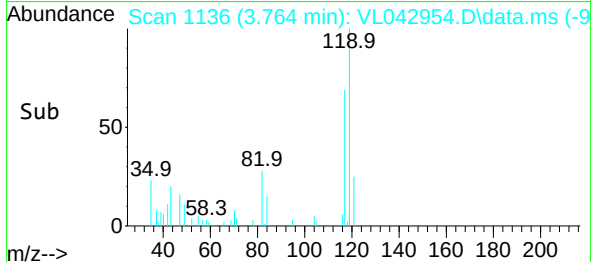
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion:117 Resp: 307
Ion Ratio Lower Upper
117 100
119 139.9 76.9 115.3
121 34.3 23.7 35.5

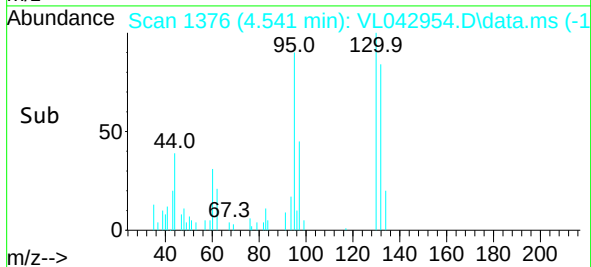
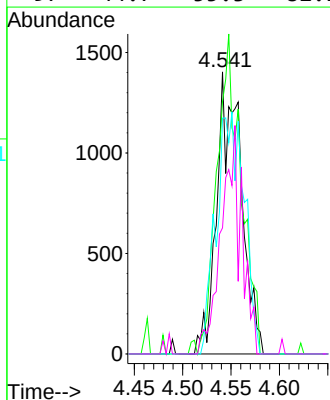
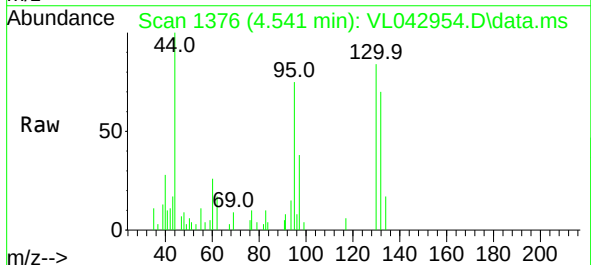
Manual Integrations
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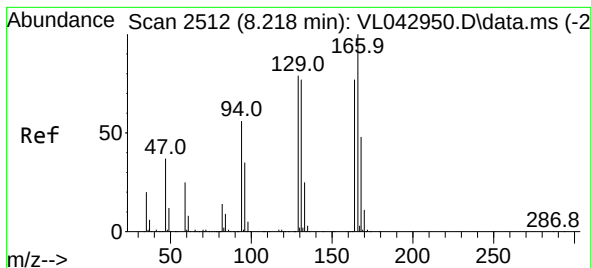
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#38
Trichloroethene
Concen: 0.106 ppbv m
RT: 4.541 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion:130 Resp: 2470
Ion Ratio Lower Upper
130 100
95 89.6 83.0 124.4
132 83.6 74.6 112.0
97 44.7 55.3 82.9#





#52

Tetrachloroethene

Concen: 0.111 ppbv m

RT: 8.228 min Scan# 2512

Delta R.T. 0.010 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Instrument :

MSVOA_L

ClientSampleId :

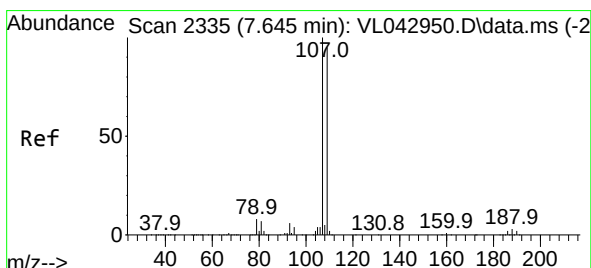
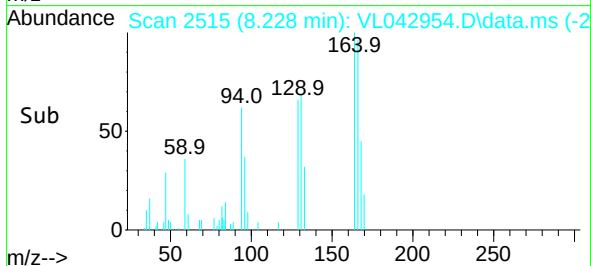
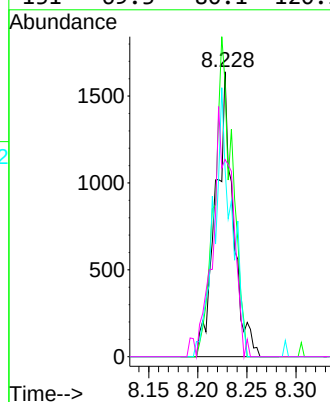
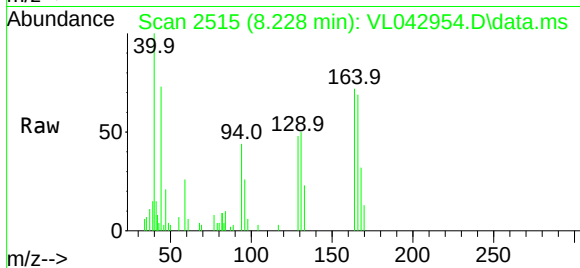
VSTDIC0.1

Tgt Ion	164	Resp:	201
Ion	Ratio	Lower	Upper
164	100		
166	96.3	103.5	155.3
129	66.4	82.2	123.4
131	69.3	80.1	120.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#54

1,2-Dibromoethane

Concen: 0.102 ppbv m

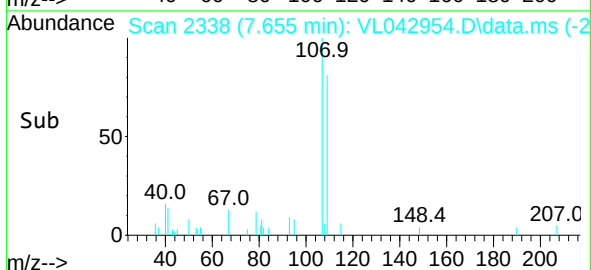
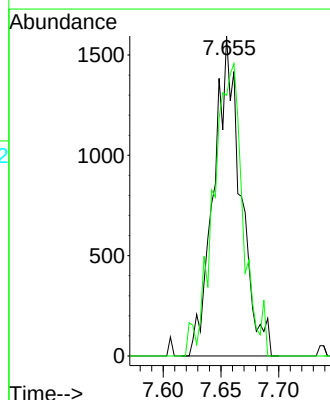
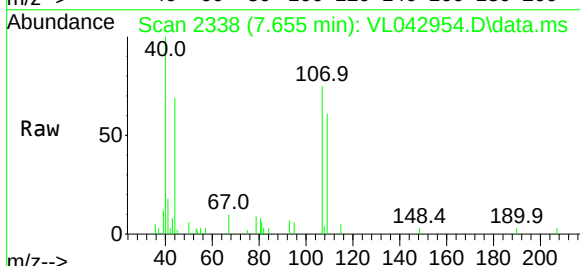
RT: 7.655 min Scan# 2338

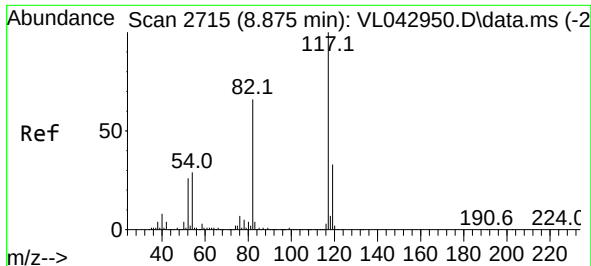
Delta R.T. 0.010 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

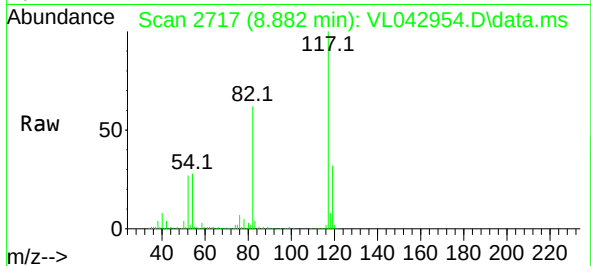
Tgt Ion	107	Resp:	2595
Ion	Ratio	Lower	Upper
107	100		
109	81.4	75.8	113.8





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

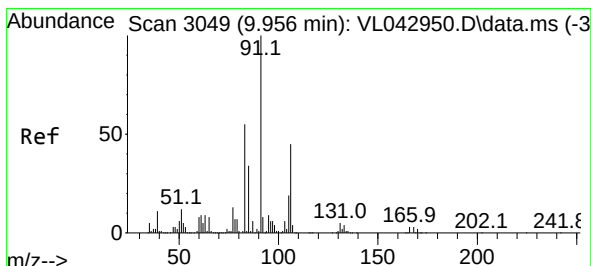
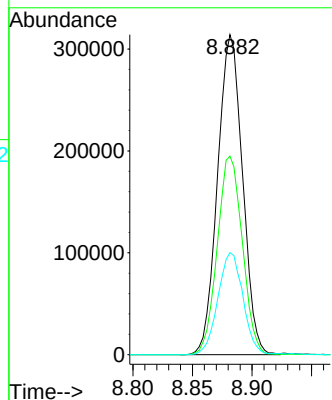
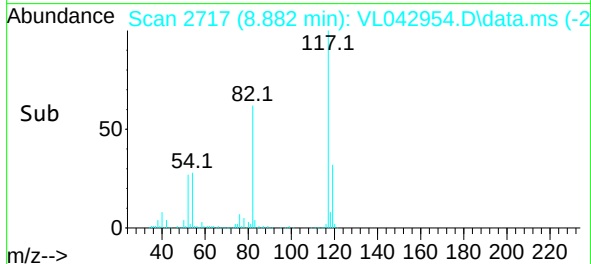
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1



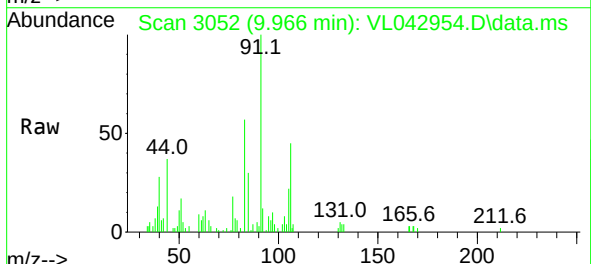
Tgt Ion: 117 Resp: 45717
Ion Ratio Lower Upper
117 100
82 62.3 52.8 79.2
119 32.3 26.5 39.7

Manual Integrations
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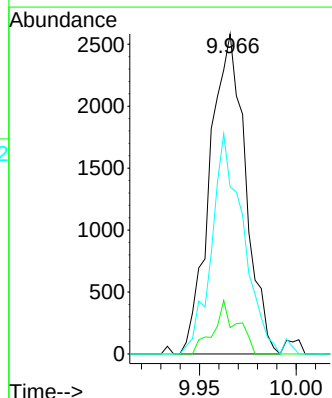
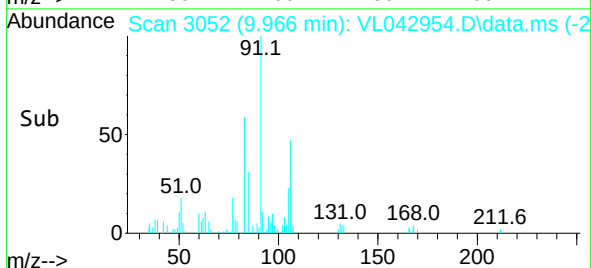
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

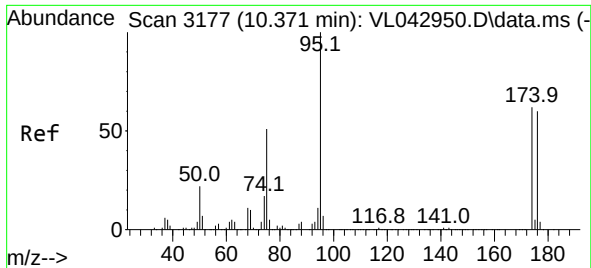


#63
1,1,2,2-Tetrachloroethane
Concen: 0.106 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.010 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56



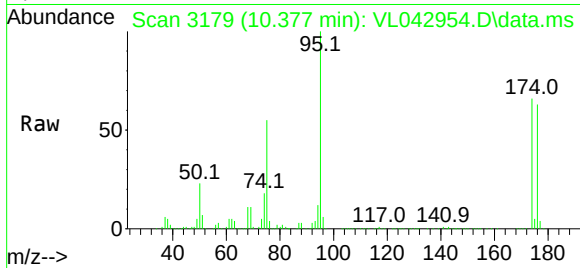
Tgt Ion: 83 Resp: 3301
Ion Ratio Lower Upper
83 100
131 11.1 4.8 14.4
85 62.2 32.2 96.6





#68
1-Bromo-4-Fluorobenzene
Concen: 9.881 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

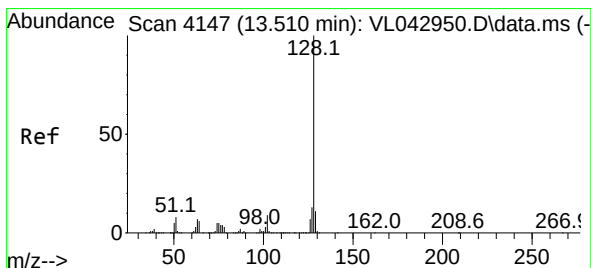
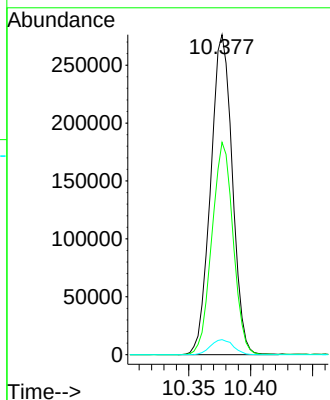
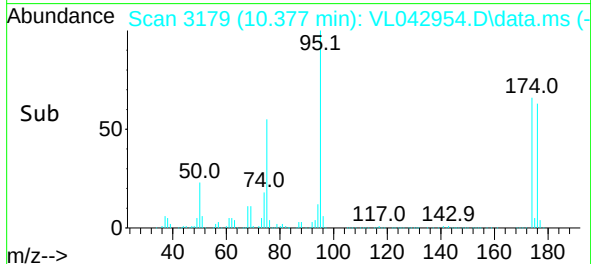
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



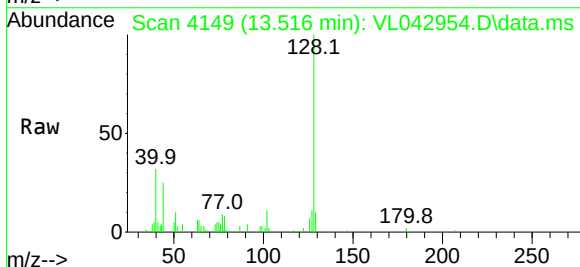
Tgt Ion: 95 Resp: 337190
Ion Ratio Lower Upper
95 100
174 65.1 51.4 77.2
175 4.9 4.0 6.0

Manual Integrations
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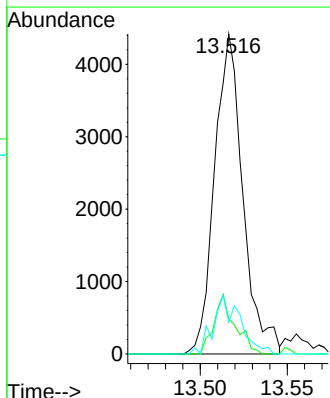
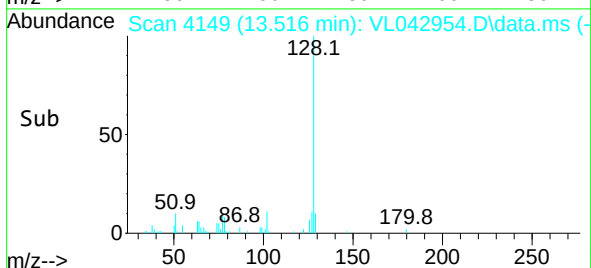
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#79
Naphthalene
Concen: 0.085 ppbv m
RT: 13.516 min Scan# 4149
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56



Tgt Ion:128 Resp: 4997
Ion Ratio Lower Upper
128 100
127 11.1 10.6 15.8
129 10.0 9.0 13.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042955.D
 Acq On : 22 Sep 2025 12:30
 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 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:13:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	163615	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	504423	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	454013	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	334002	9.855	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	358	0.040	ppbv	# 53
32) 1,1,1-Trichloroethane	3.373	97	1337m	0.038	ppbv	
35) Carbon Tetrachloride	3.761	117	1110m	0.034	ppbv	
38) Trichloroethene	4.551	130	797m	0.034	ppbv	
52) Tetrachloroethene	8.231	164	660m	0.036	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.959	83	1098m	0.036	ppbv	

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

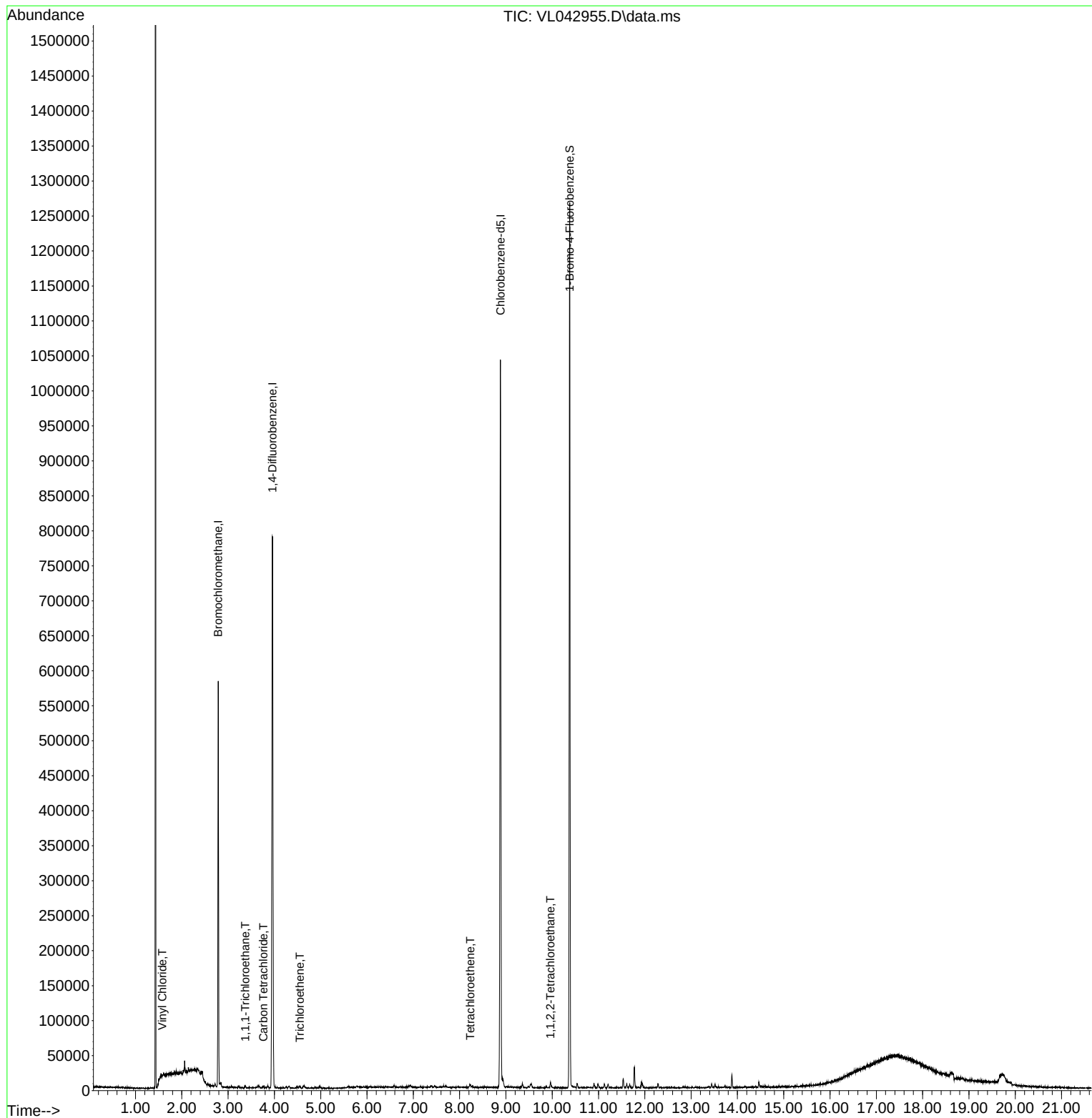
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042955.D
Acq On : 22 Sep 2025 12:30
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

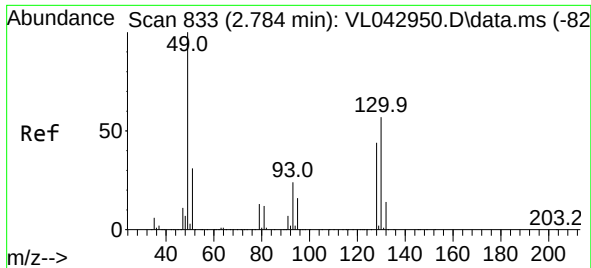
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Sep 23 02:13:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

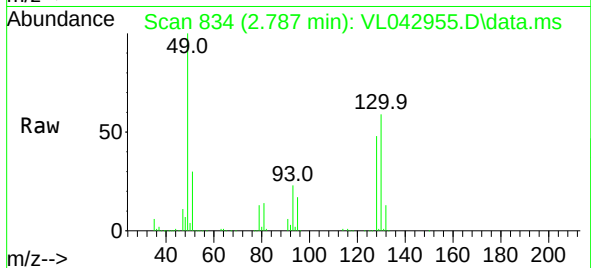
Reviewed By : Semsettin Yesilyurt 09/23/2025
Supervised By : Mahesh Dadoda 09/24/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

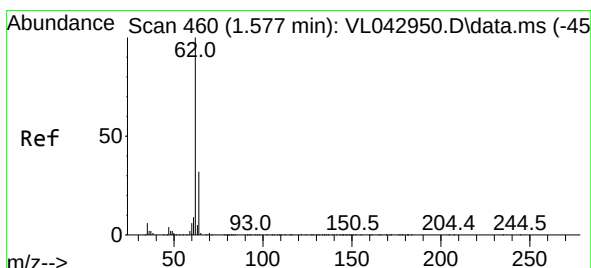
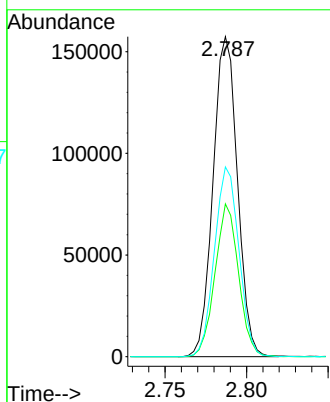
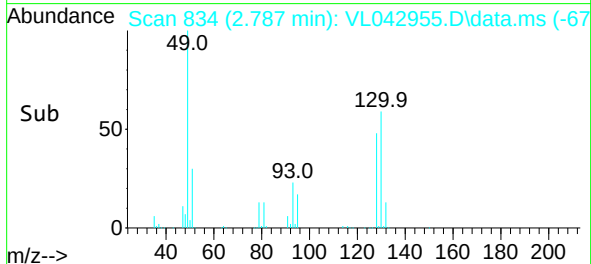
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



Tgt Ion: 49 Resp: 16361
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.8
130 59.5 29.1 87.3

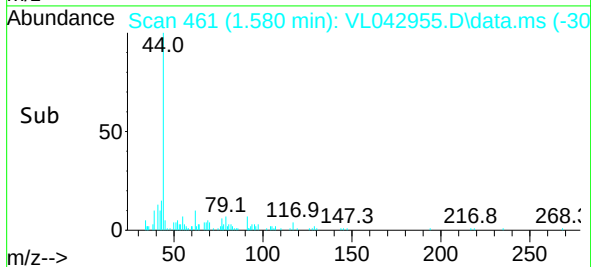
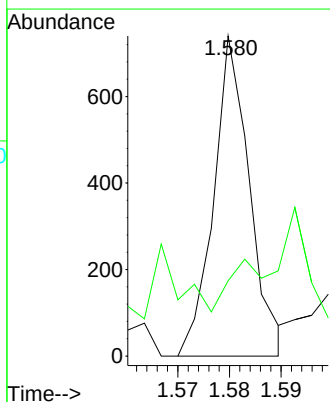
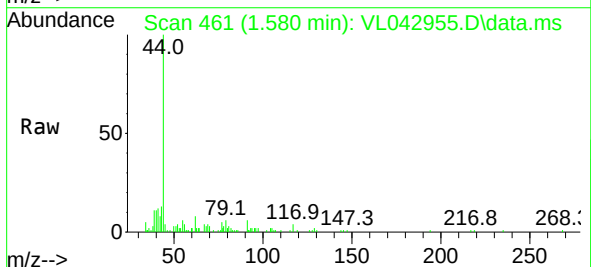
Manual Integrations
APPROVED

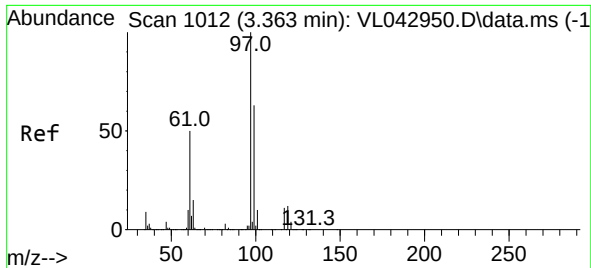
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#5
Vinyl Chloride
Concen: 0.040 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion: 62 Resp: 358
Ion Ratio Lower Upper
62 100
64 5.9 25.4 38.2#





#32
1,1,1-Trichloroethane
Concen: 0.038 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.010 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

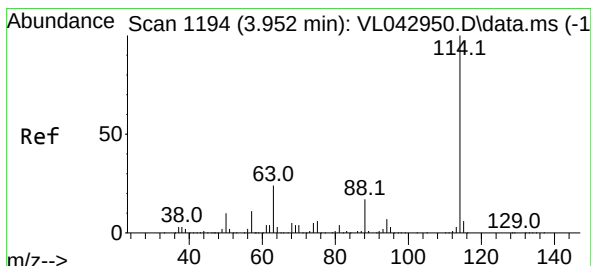
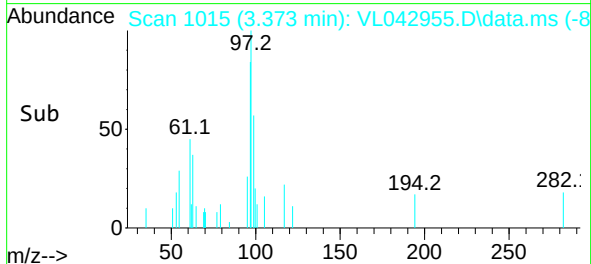
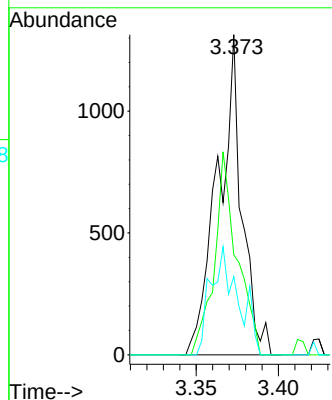
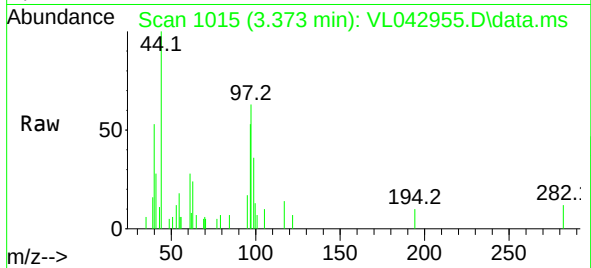
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 97 Resp: 133

Ion	Ratio	Lower	Upper
97	100		
99	59.4	51.1	76.7
61	38.4	39.8	59.6

Manual Integrations
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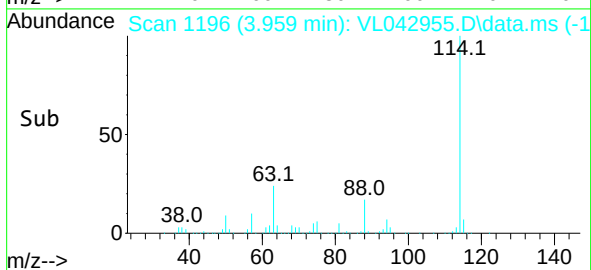
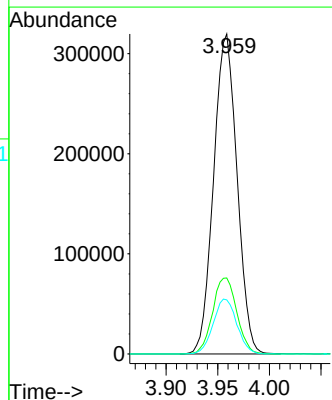
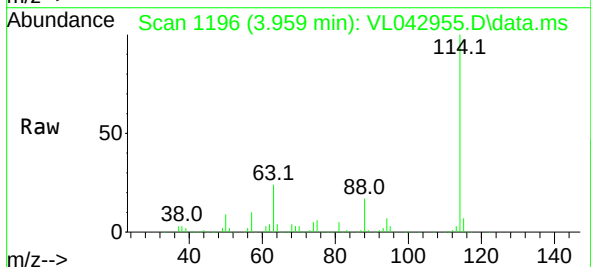
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

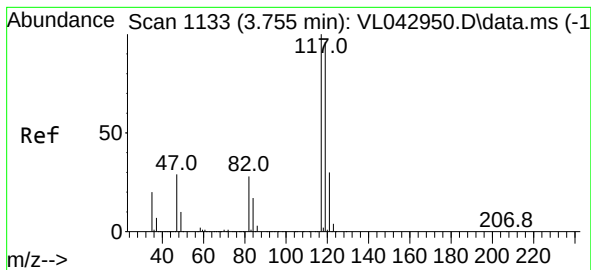


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion:114 Resp: 504423

Ion	Ratio	Lower	Upper
114	100		
63	24.5	19.4	29.2
88	17.3	14.2	21.2





#35

Carbon Tetrachloride

Concen: 0.034 ppbv m

RT: 3.761 min Scan# 1133

Delta R.T. 0.006 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

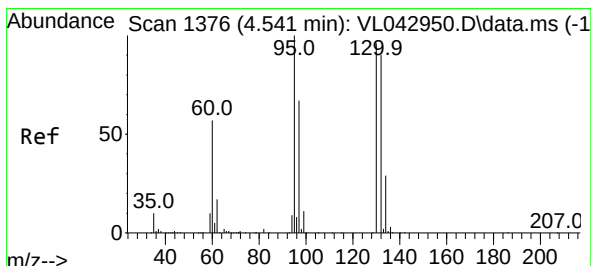
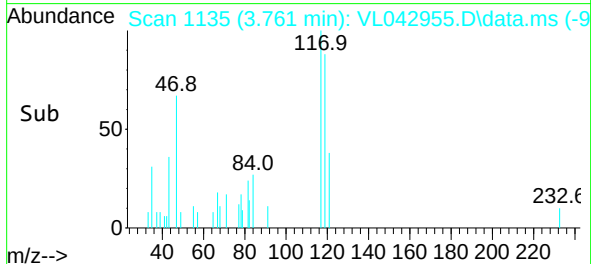
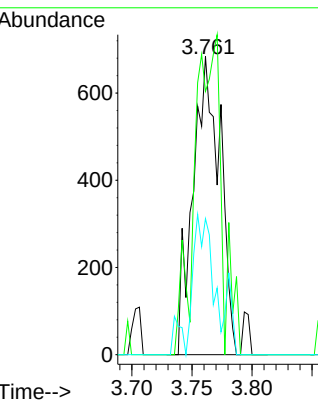
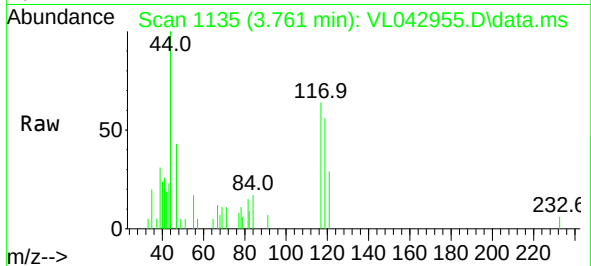
Tgt Ion:	117	Resp:	1110
Ion	Ratio	Lower	Upper
117	100		
119	88.3	76.9	115.3
121	45.6	23.7	35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#38

Trichloroethene

Concen: 0.034 ppbv m

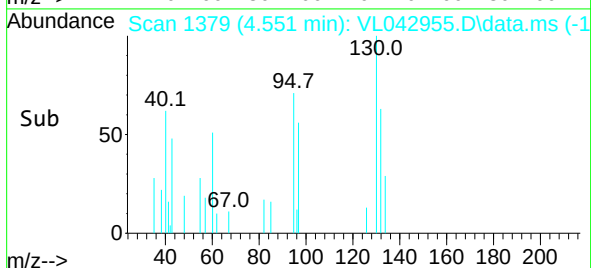
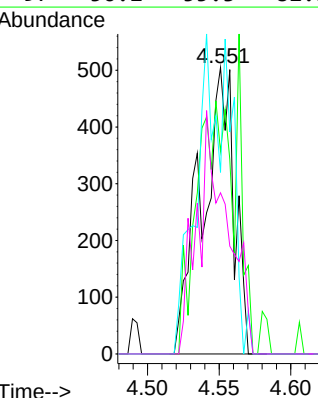
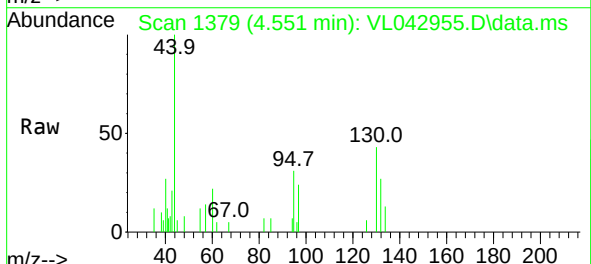
RT: 4.551 min Scan# 1379

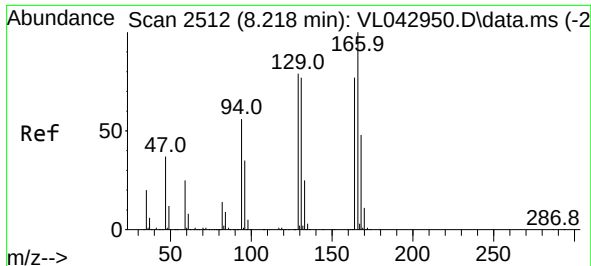
Delta R.T. 0.010 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

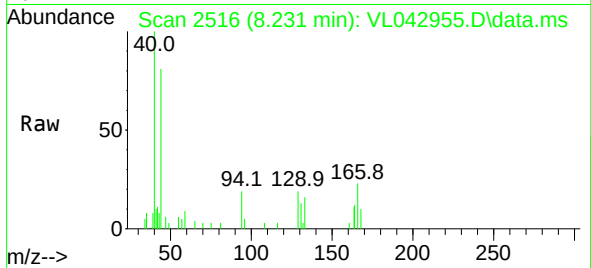
Tgt Ion:	130	Resp:	797
Ion	Ratio	Lower	Upper
130	100		
95	70.7	83.0	124.4#
132	63.4	74.6	112.0#
97	56.2	55.3	82.9





#52
Tetrachloroethene
Concen: 0.036 ppbv m
RT: 8.231 min Scan# 2512
Delta R.T. 0.013 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

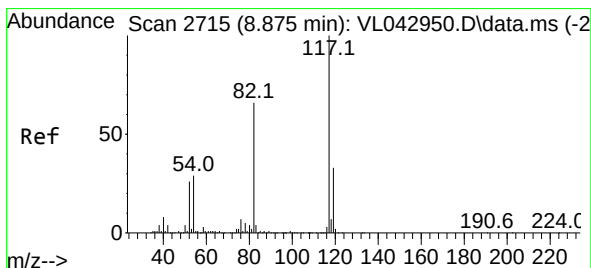
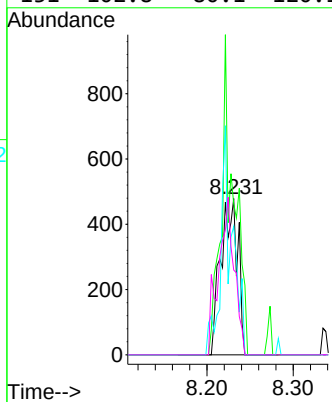
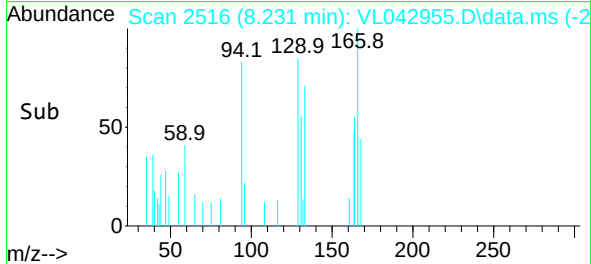
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



Tgt Ion:164 Resp: 660
Ion Ratio Lower Upper
164 100
166 182.6 103.5 155.3
129 155.3 82.2 123.4
131 102.8 80.1 120.1

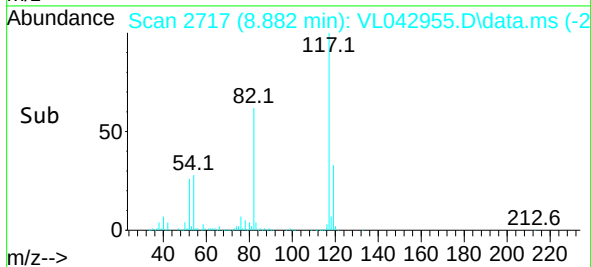
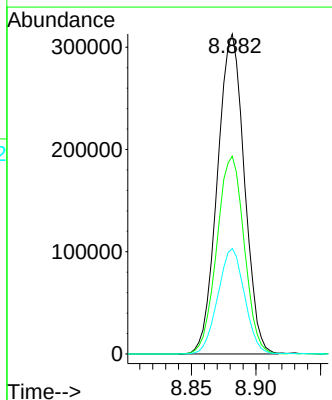
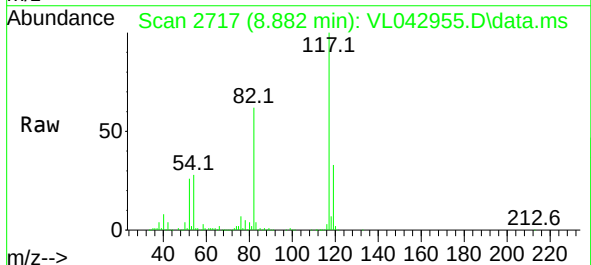
Manual Integrations
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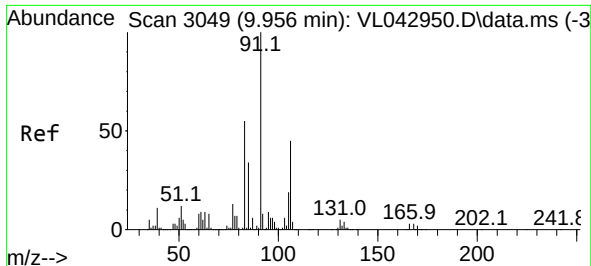
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.006 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

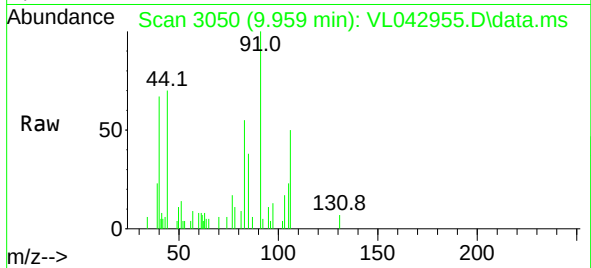
Tgt Ion:117 Resp: 454013
Ion Ratio Lower Upper
117 100
82 62.9 52.8 79.2
119 32.8 26.5 39.7





#63
1,1,2,2-Tetrachloroethane
Concen: 0.036 ppbv m
RT: 9.959 min Scan# 3049
Delta R.T. 0.003 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

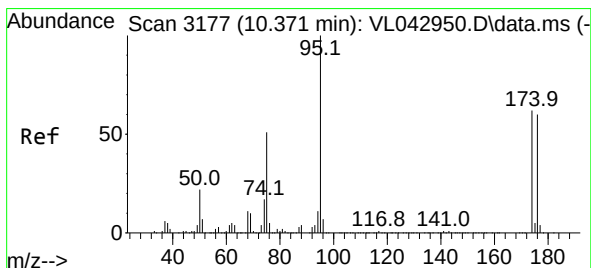
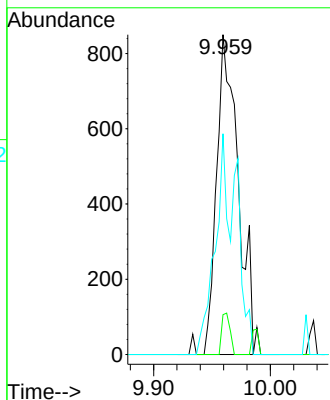
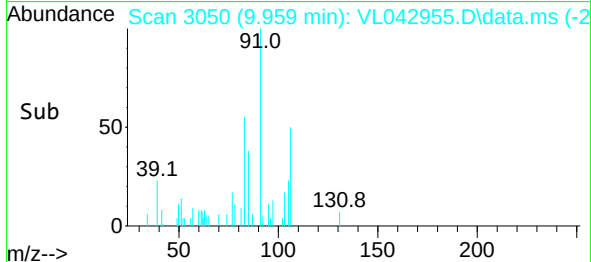
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



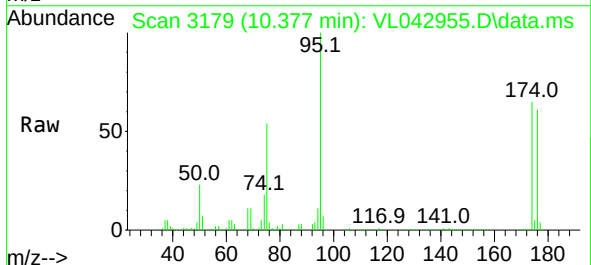
Tgt Ion: 83 Resp: 1098
Ion Ratio Lower Upper
83 100
131 4.9 4.8 14.4
85 67.4 32.2 96.6

Manual Integrations
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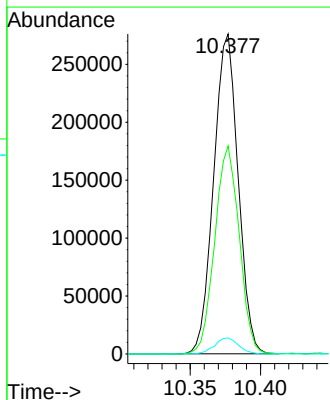
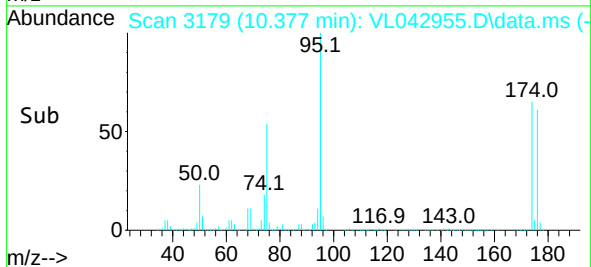
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.855 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30



Tgt Ion: 95 Resp: 334002
Ion Ratio Lower Upper
95 100
174 65.1 51.4 77.2
175 4.9 4.0 6.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042956.D
 Acq On : 22 Sep 2025 13:05
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:14:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	162846	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	494779	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	458256	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 343752 10.049 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	300946	13.740	ppbv	97
3) Chlorodifluoromethane	1.476	51	364959	13.369	ppbv	100
4) Chloromethane	1.534	50	133240	13.439	ppbv	99
5) Vinyl Chloride	1.583	62	115257	12.860	ppbv	100
6) Bromomethane	1.670	94	40861	12.925	ppbv	94
7) Chloroethane	1.706	64	46081	13.241	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	255815	13.682	ppbv	98
9) Propene	1.486	41	154069	12.973	ppbv	94
10) Heptane	4.985	43	424500	13.327	ppbv	98
11) Trichlorofluoromethane	1.881	101	295479	13.991	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	237615	13.894	ppbv	99
13) Ethanol	1.722	45	11502	10.105	ppbv	99
14) Bromoethene	1.784	108	88375	13.668	ppbv	100
15) Acetone	1.835	43	244861	11.545	ppbv	97
16) 1,3-Butadiene	1.612	39	126670	12.661	ppbv	97
17) tert-Butyl alcohol	2.039	59	308347	13.255	ppbv	99
18) 1,1-Dichloroethene	2.036	96	109211	13.796	ppbv	99
19) Isopropyl Alcohol	1.887	45	162952	12.780	ppbv	100
20) Methylene Chloride	2.062	84	92708	14.996	ppbv	95
21) Allyl Chloride	2.098	41	204552	13.848	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	121815	13.542	ppbv	98
23) Vinyl Acetate	2.463	43	419251	13.837	ppbv	99
24) 1,1-Dichloroethane	2.411	63	243229	13.789	ppbv	99
25) Ethyl Acetate	2.835	43	724418	13.514	ppbv	99
26) Hexane	2.829	57	321710	13.166	ppbv	99
27) Carbon Disulfide	2.153	76	300931	13.731	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	193915	15.267	ppbv	94
29) Chloroform	2.852	83	440772	13.796	ppbv	98
30) Cyclohexane	3.858	84	281932	13.800	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	317456	13.869	ppbv	98
32) 1,1,1-Trichloroethane	3.369	97	456335	13.178	ppbv	99
34) 2-Butanone	2.557	43	469872	13.551	ppbv	99
35) Carbon Tetrachloride	3.764	117	457985	14.385	ppbv	97
36) Benzene	3.658	78	654205	14.080	ppbv	99
37) 1,2-Dichloroethane	3.221	62	350841	14.358	ppbv	100
38) Trichloroethene	4.548	130	310602	13.450	ppbv	97
39) 1,2-Dichloropropane	4.315	63	241323	14.218	ppbv	95
40) 1,4-Dioxane	4.580	88	104884	13.306	ppbv #	98
41) Tetrahydrofuran	3.052	42	276157	13.855	ppbv	99
42) Bromodichloromethane	4.489	83	495091	14.544	ppbv	98
43) Methyl Methacrylate	4.881	69	263659	13.979	ppbv	99
44) 2,2,4-Trimethylpentane	4.641	57	1107180	13.791	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	298019	14.694	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042956.D
 Acq On : 22 Sep 2025 13:05
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:14:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

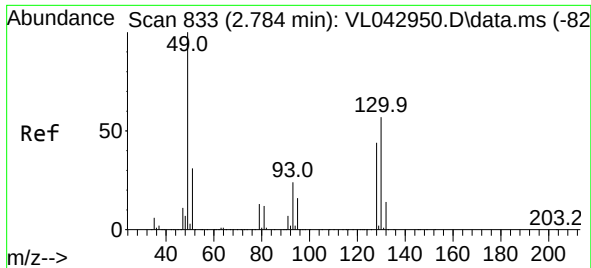
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	371770	14.389	ppbv	99
47) 1,1,2-Trichloroethane	6.583	97	249453	13.909	ppbv	96
48) Dibromochloromethane	7.389	129	421755	14.709	ppbv	99
49) Bromoform	9.487	173	367120	14.719	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	666049	14.293	ppbv	100
51) 2-Hexanone	7.435	43	541611	14.620	ppbv	100
52) Tetrachloroethene	8.228	164	233980	13.015	ppbv	99
53) Toluene	6.936	91	765216	13.915	ppbv	98
54) 1,2-Dibromoethane	7.652	107	359750	14.261	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.927	131	306952	13.994	ppbv	99
57) Chlorobenzene	8.924	112	565065	13.507	ppbv	98
58) Ethyl Benzene	9.357	91	1052303	13.985	ppbv	99
59) m/p-Xylene	9.555	91	1636030m	27.557	ppbv	
60) o-Xylene	9.966	91	808098	13.629	ppbv	100
61) Styrene	9.872	104	401899	14.330	ppbv	99
62) Isopropylbenzene	10.542	105	1198767	13.564	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	403038	12.932	ppbv	100
64) n-propylbenzene	10.992	120	318541	13.793	ppbv	97
65) tert-Butylbenzene	11.532	119	1033382	13.146	ppbv	100
66) Benzyl Chloride	11.616	91	113549	13.767	ppbv	99
67) sec-Butylbenzene	11.769	105	1454158	13.276	ppbv	99
69) p-Isopropyltoluene	11.927	119	1228773	13.280	ppbv	100
70) n-Butylbenzene	12.283	91	1239042	13.716	ppbv	99
71) 2-Chlorotoluene	10.904	91	916456	13.733	ppbv	100
72) 4-Ethyltoluene	11.128	105	1014567	13.662	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	845958	14.046	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	889339	13.372	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	568597	13.785	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	570104	13.916	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	536286	13.665	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	377435	12.296	ppbv	99
79) Naphthalene	13.513	128	920123	15.645	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	277792	15.290	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	473767	15.066	ppbv	99

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



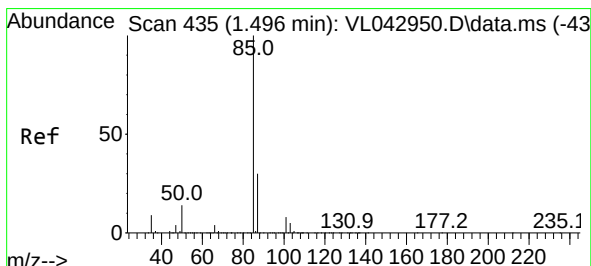
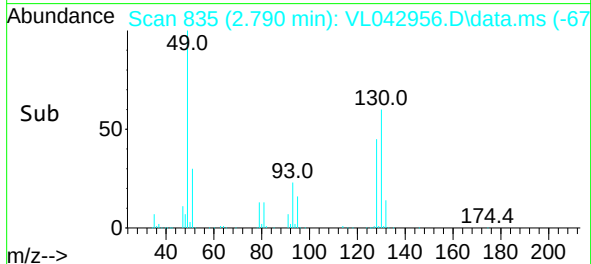
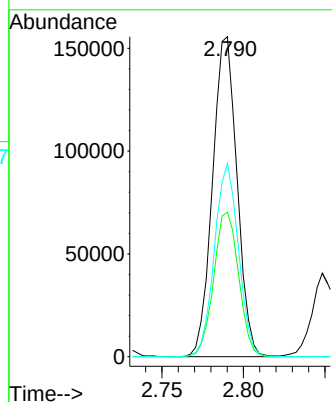
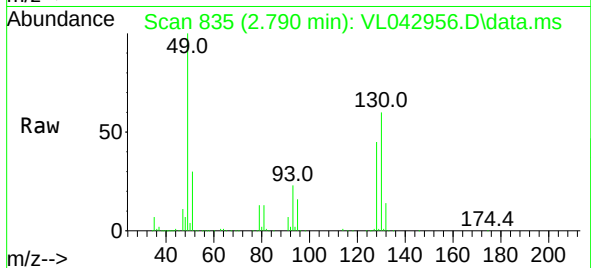
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 833
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 49 Resp: 162840
Ion Ratio Lower Upper
49 100
128 45.9 22.9 68.8
130 59.1 29.1 87.3

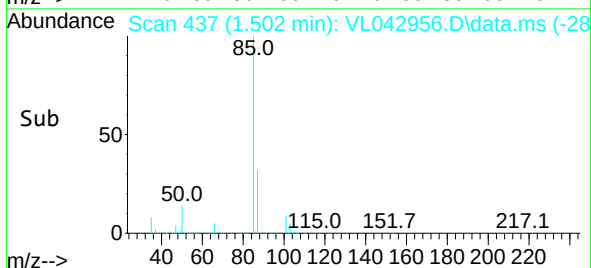
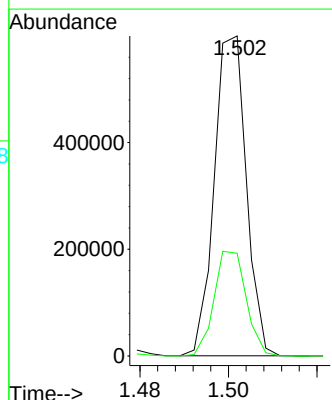
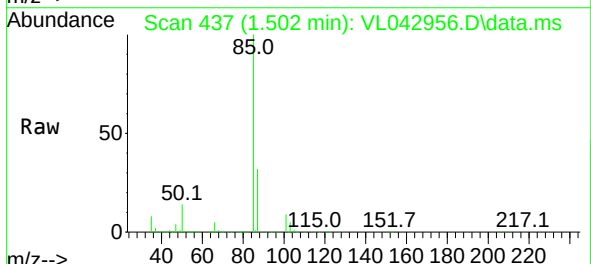
Manual Integrations
APPROVED

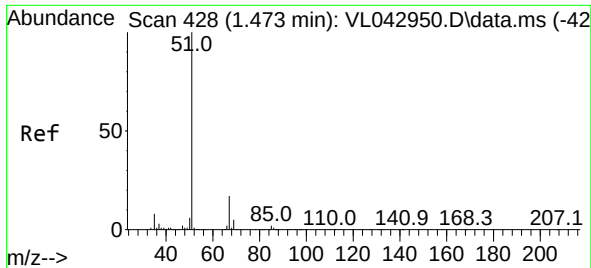
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#2
Dichlorodifluoromethane
Concen: 13.740 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

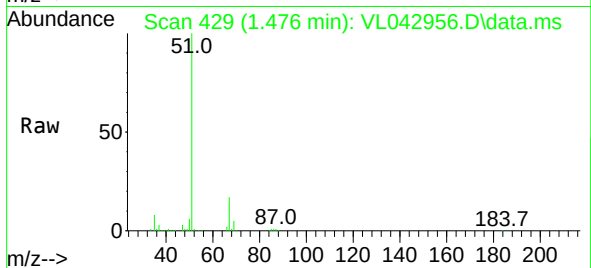
Tgt Ion: 85 Resp: 300946
Ion Ratio Lower Upper
85 100
87 32.1 24.3 36.5





#3
Chlorodifluoromethane
Concen: 13.369 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

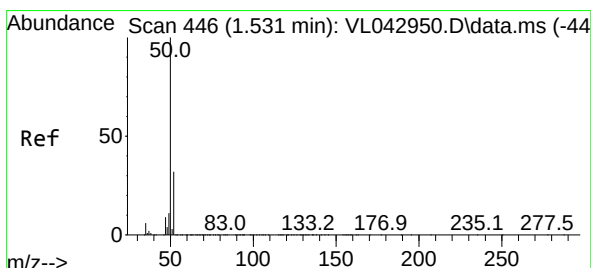
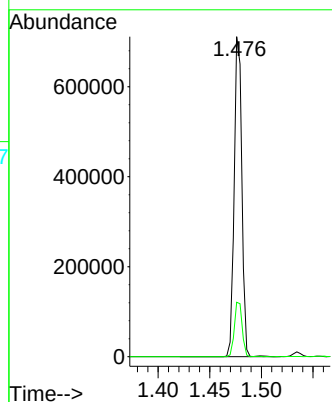
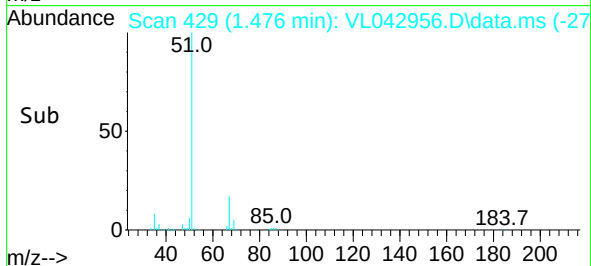
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 51 Resp: 364959
Ion Ratio Lower Upper
51 100
67 17.5 13.8 20.8

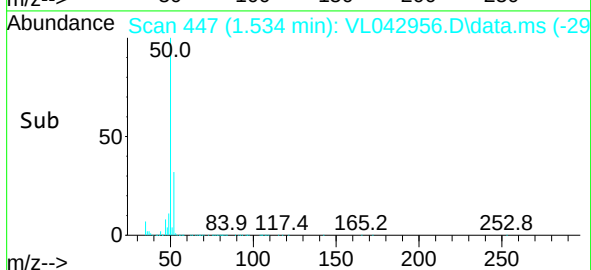
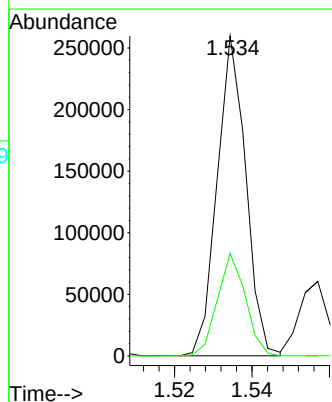
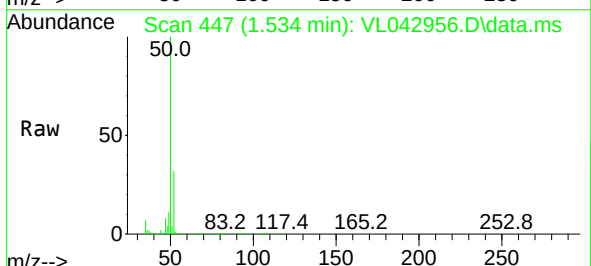
Manual Integrations
APPROVED

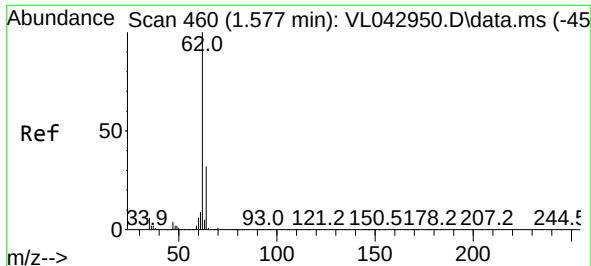
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#4
Chloromethane
Concen: 13.439 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

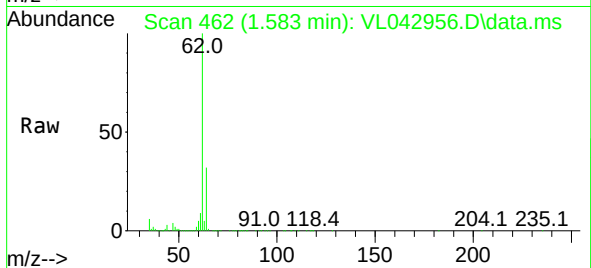
Tgt Ion: 50 Resp: 133240
Ion Ratio Lower Upper
50 100
52 32.0 25.9 38.9





#5
 Vinyl Chloride
 Concen: 12.860 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

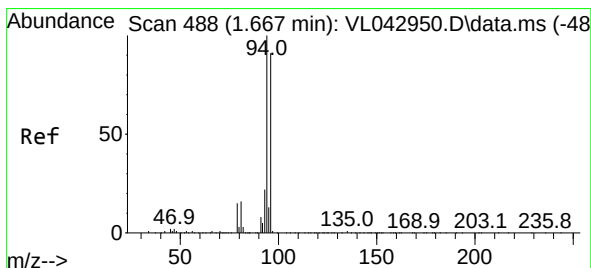
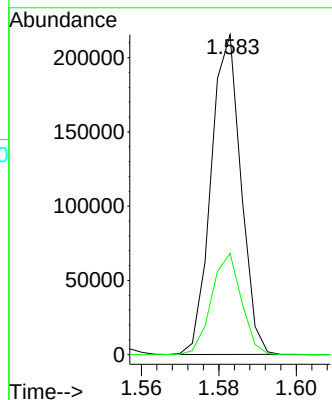
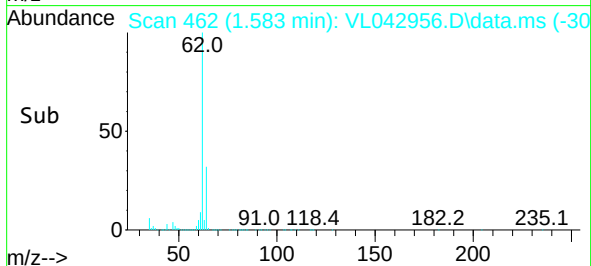
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 62 Resp: 11525
 Ion Ratio Lower Upper
 62 100
 64 31.7 25.4 38.2

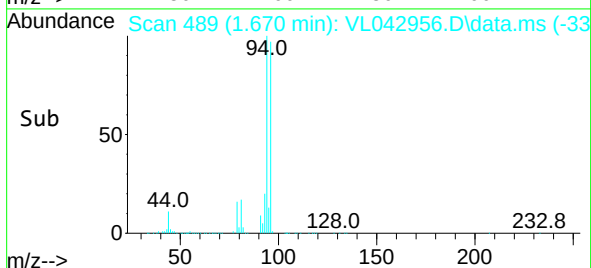
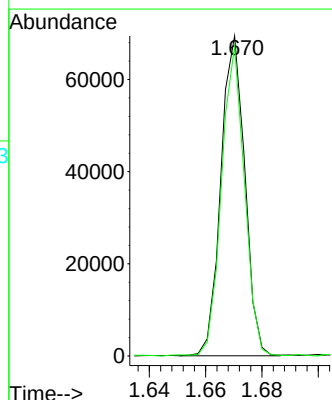
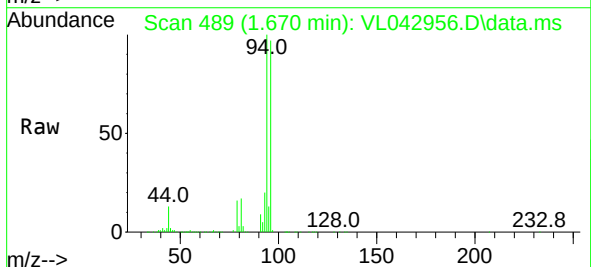
Manual Integrations
 APPROVED

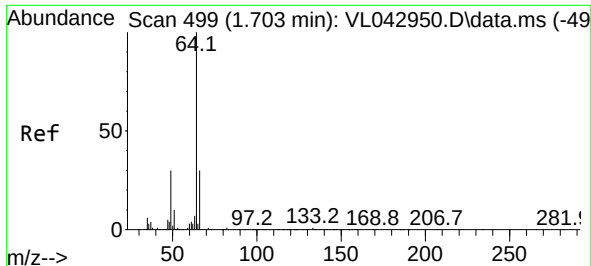
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#6
 Bromomethane
 Concen: 12.925 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

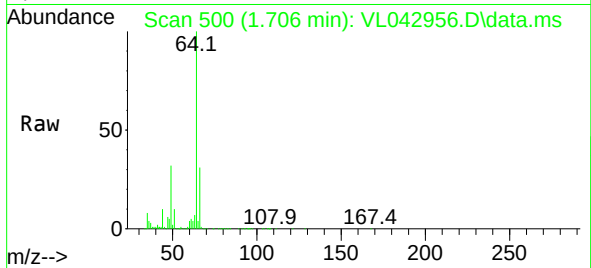
Tgt Ion: 94 Resp: 40861
 Ion Ratio Lower Upper
 94 100
 96 96.7 72.6 108.8





#7
Chloroethane
Concen: 13.241 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

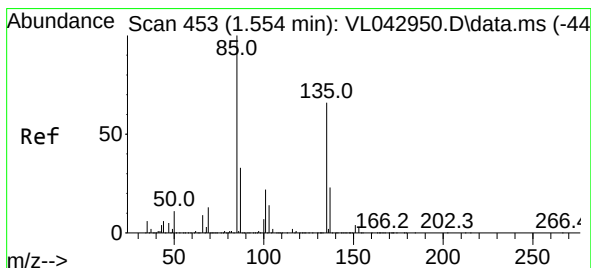
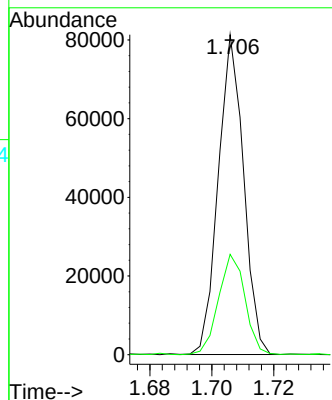
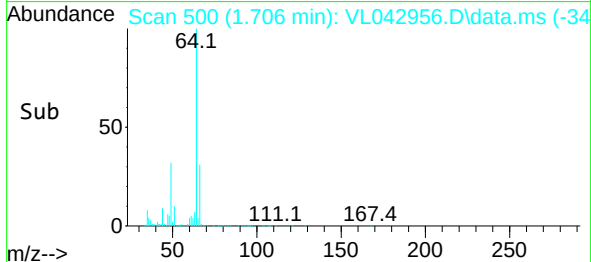
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



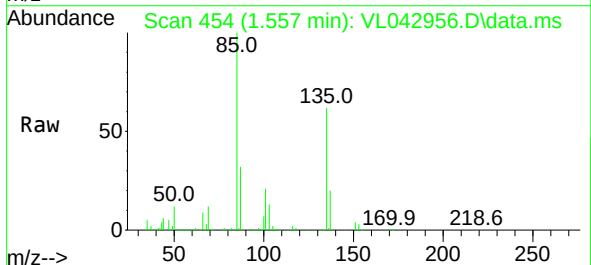
Tgt Ion: 64 Resp: 4608
Ion Ratio Lower Upper
64 100
66 31.3 24.6 36.8

Manual Integrations
APPROVED

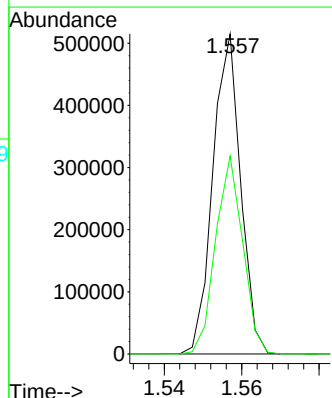
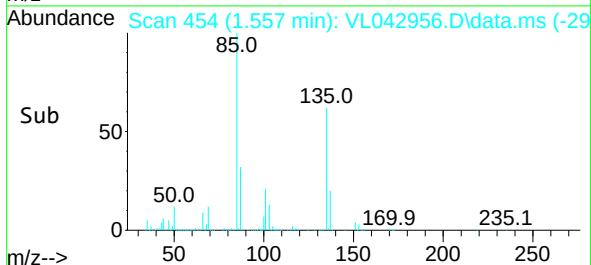
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

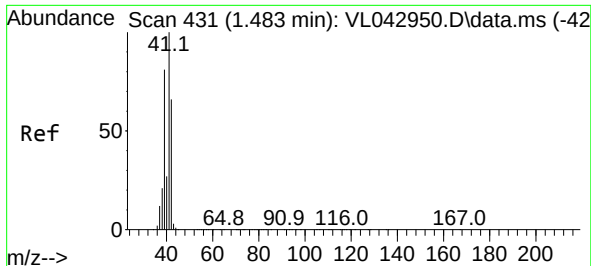


#8
Dichlorotetrafluoroethane
Concen: 13.682 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05



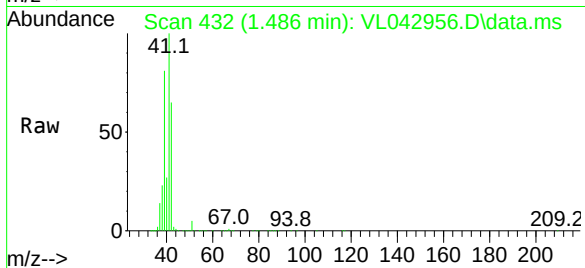
Tgt Ion: 85 Resp: 255815
Ion Ratio Lower Upper
85 100
135 60.8 49.7 74.5





#9
 Propene
 Concen: 12.973 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

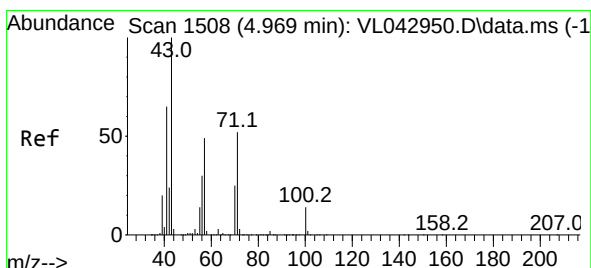
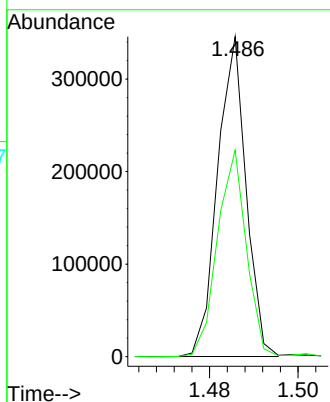
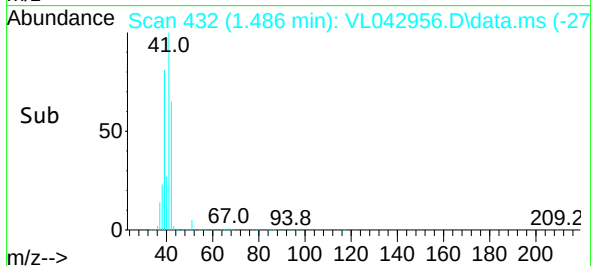
Instrument :
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 ClientSampleId :
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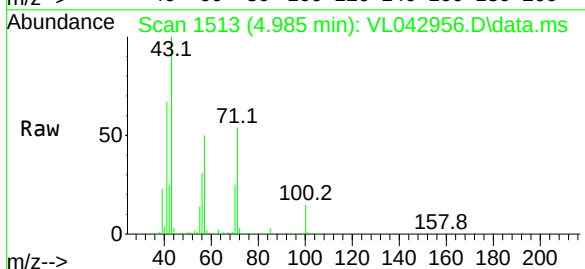
Tgt Ion: 41 Resp: 154069
 Ion Ratio Lower Upper
 41 100
 42 67.1 57.4 86.2

Manual Integrations
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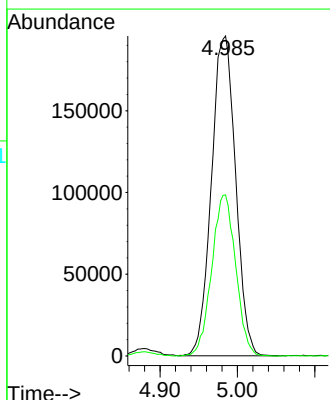
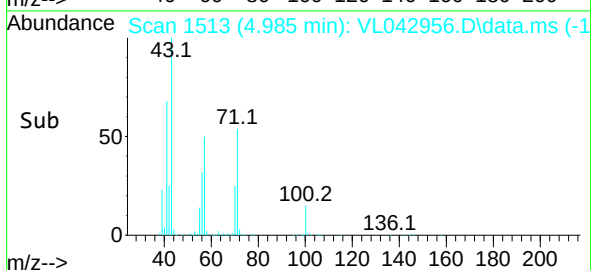
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

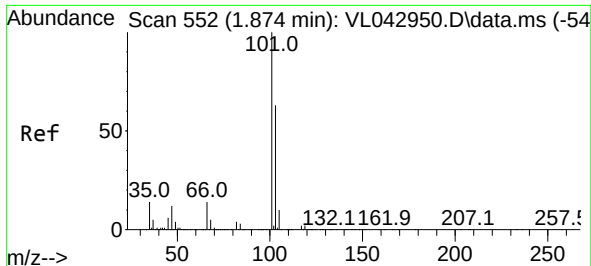


#10
 Heptane
 Concen: 13.327 ppbv
 RT: 4.985 min Scan# 1513
 Delta R.T. 0.016 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05



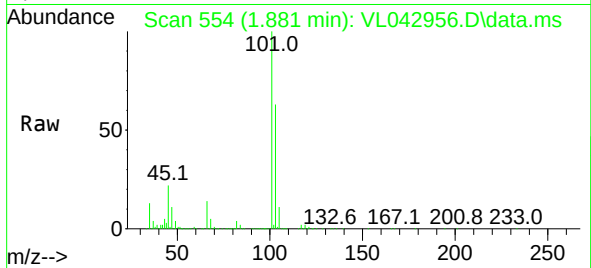
Tgt Ion: 43 Resp: 424500
 Ion Ratio Lower Upper
 43 100
 57 49.8 38.6 57.8





#11
Trichlorofluoromethane
Concen: 13.991 ppbv
RT: 1.881 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

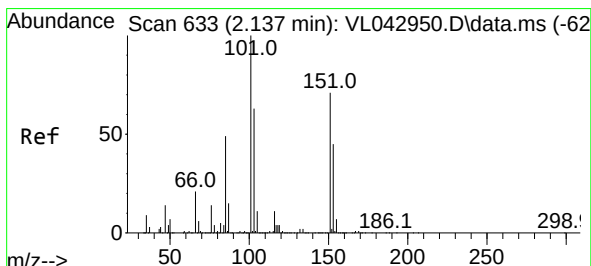
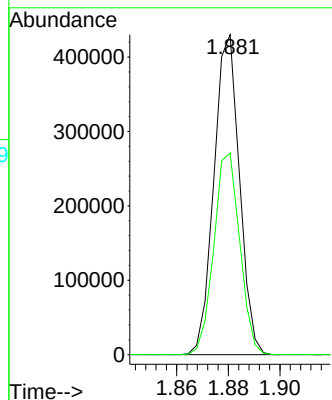
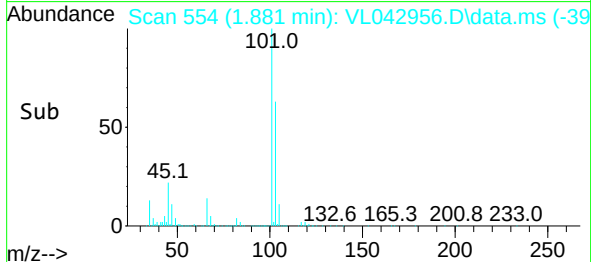
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ClientSampleId :
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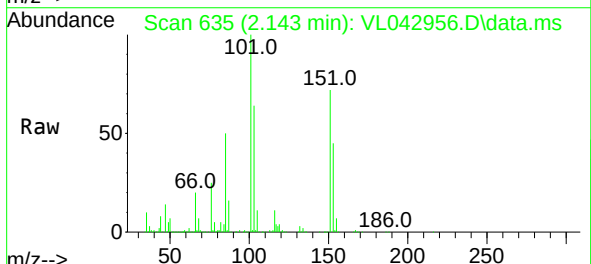
Tgt Ion:101 Resp: 295479
Ion Ratio Lower Upper
101 100
103 63.0 50.1 75.1

Manual Integrations
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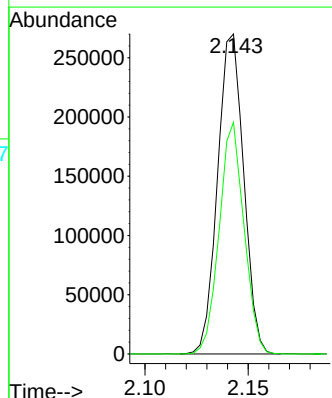
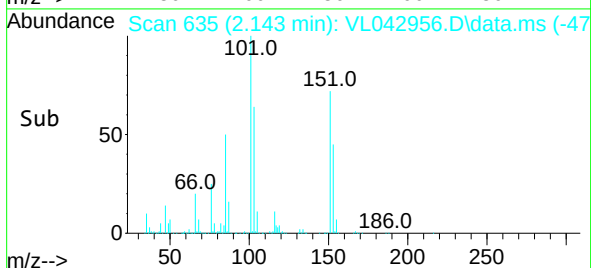
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

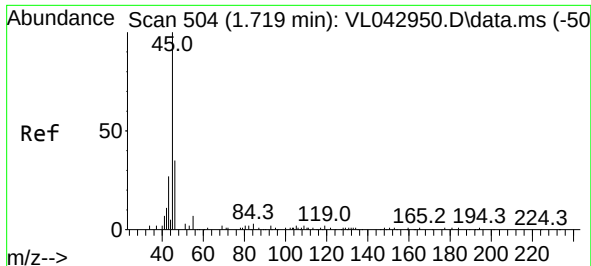


#12
1,1,2-Trichlorotrifluoroethane
Concen: 13.894 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05



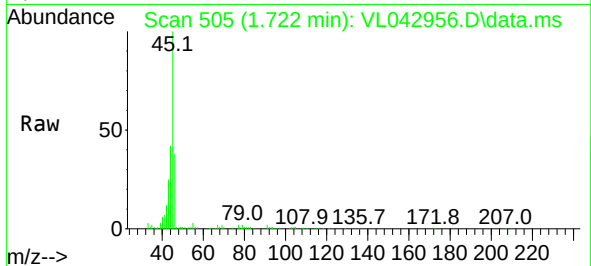
Tgt Ion:101 Resp: 237615
Ion Ratio Lower Upper
101 100
151 68.7 55.7 83.5





#13
Ethanol
Concen: 10.105 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

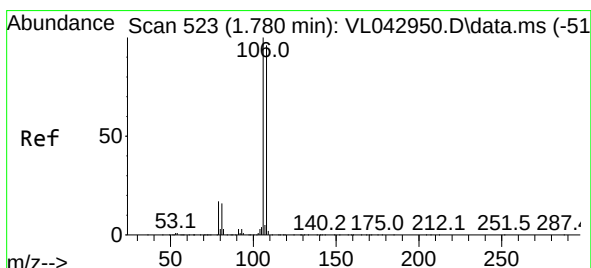
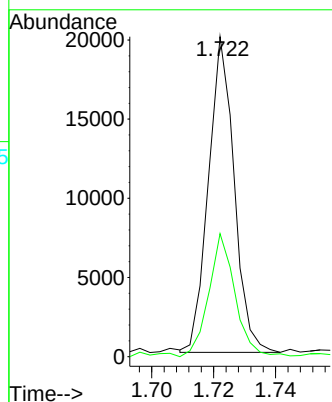
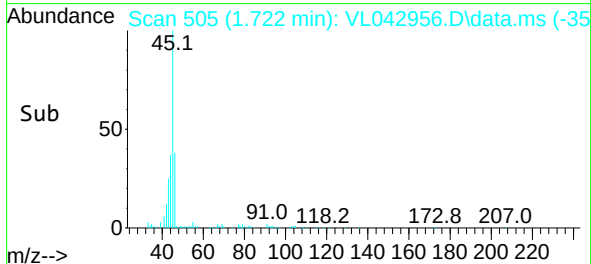
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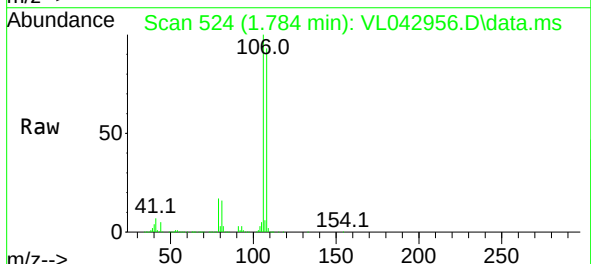
Tgt Ion: 45 Resp: 11502
Ion Ratio Lower Upper
45 100
46 39.5 16.2 64.6

Manual Integrations
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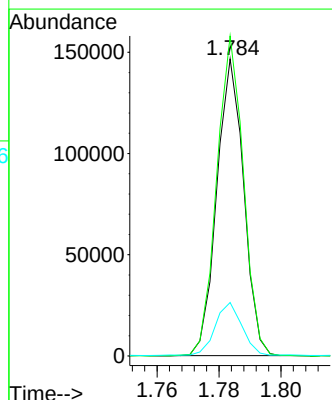
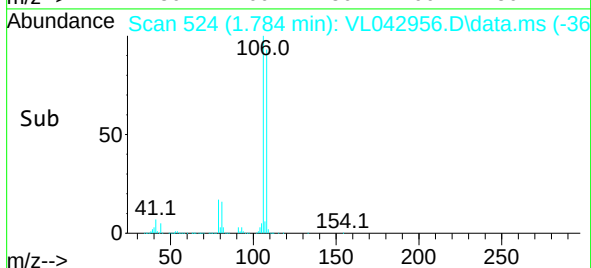
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

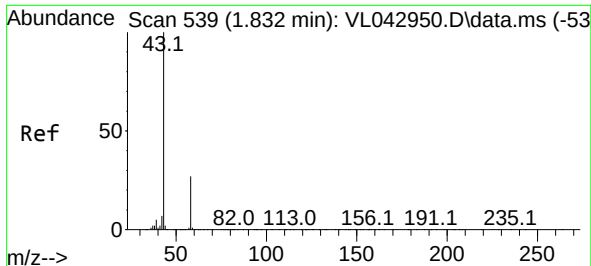


#14
Bromoethene
Concen: 13.668 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05



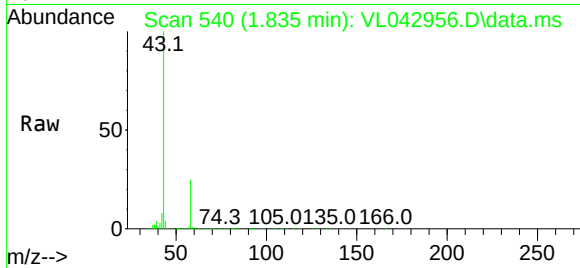
Tgt Ion:108 Resp: 88375
Ion Ratio Lower Upper
108 100
106 107.4 86.0 129.0
79 18.1 14.2 21.2





#15
Acetone
Concen: 11.545 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

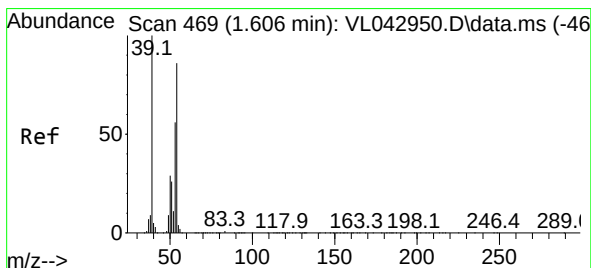
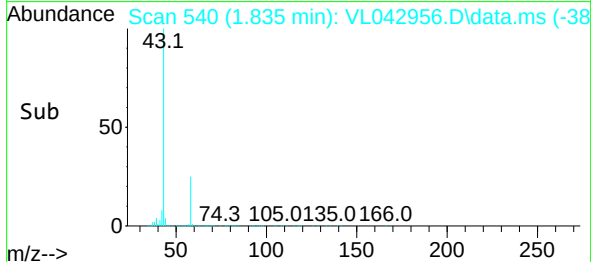
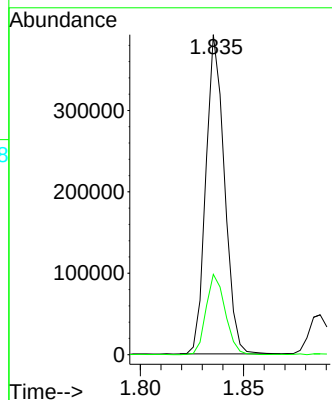
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 43 Resp: 24486
Ion Ratio Lower Upper
43 100
58 26.2 22.3 33.5

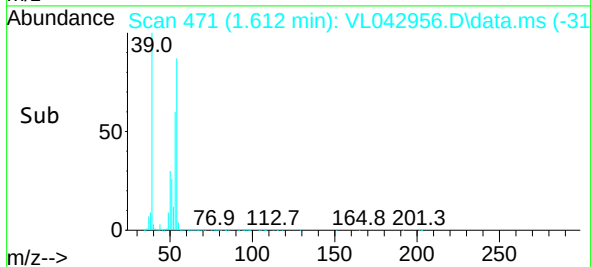
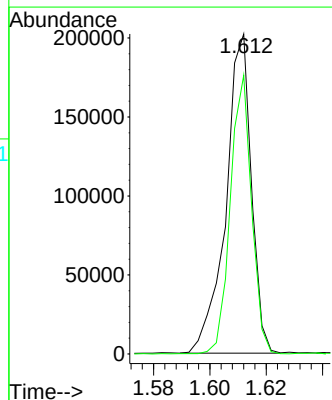
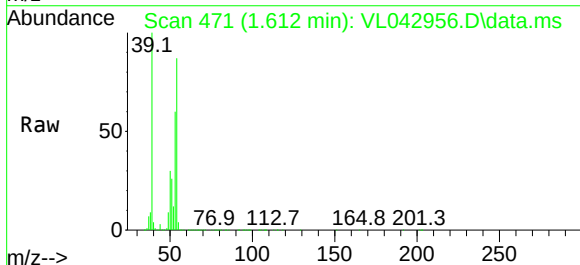
Manual Integrations
APPROVED

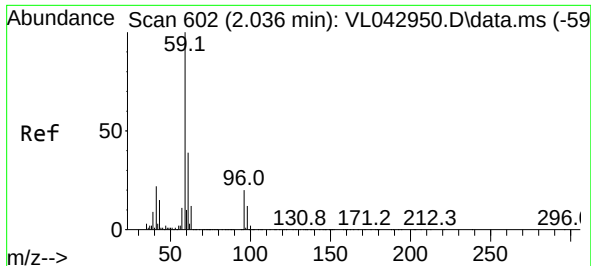
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#16
1,3-Butadiene
Concen: 12.661 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 39 Resp: 126670
Ion Ratio Lower Upper
39 100
54 73.2 60.8 91.2





#17

tert-Butyl alcohol

Concen: 13.255 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 59 Resp: 30834

Ion Ratio Lower Upper

59 100

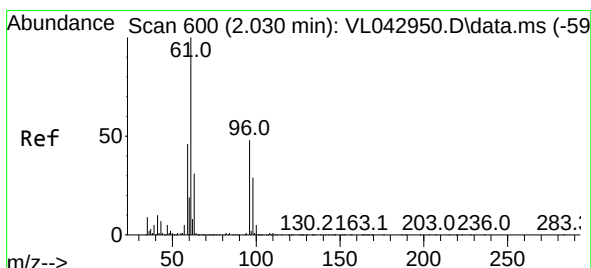
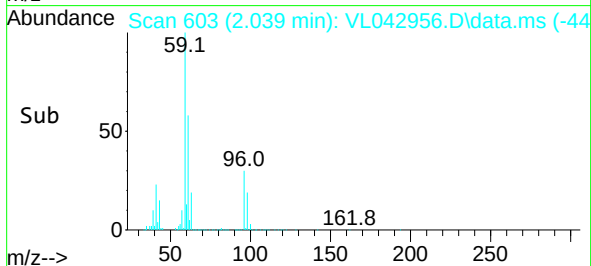
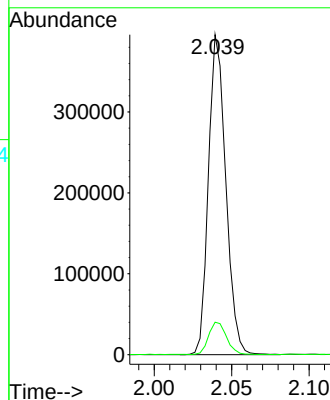
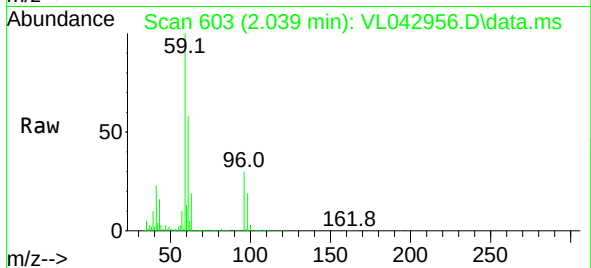
57 10.5 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#18

1,1-Dichloroethene

Concen: 13.796 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

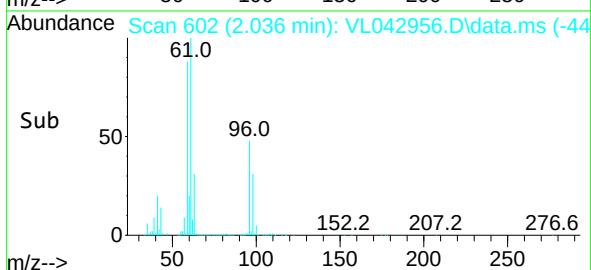
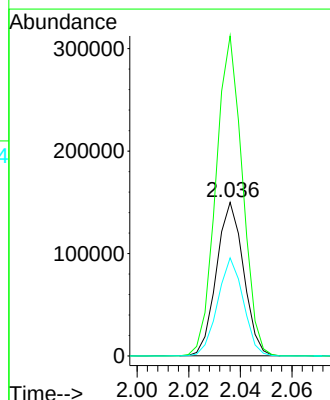
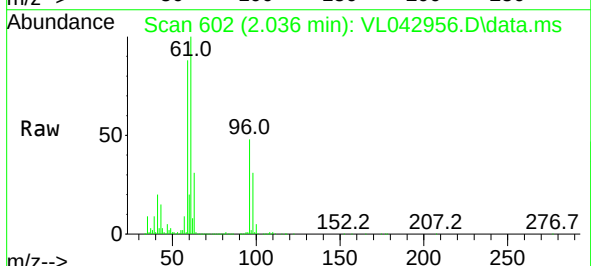
Tgt Ion: 96 Resp: 109211

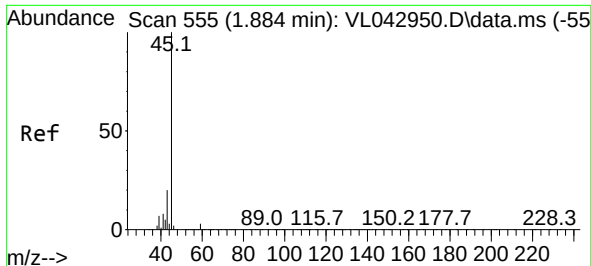
Ion Ratio Lower Upper

96 100

61 208.5 166.2 249.4

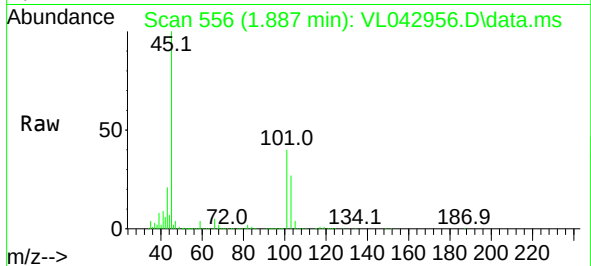
98 63.9 48.6 73.0





#19
Isopropyl Alcohol
Concen: 12.780 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

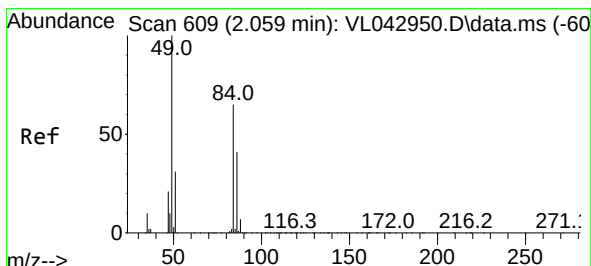
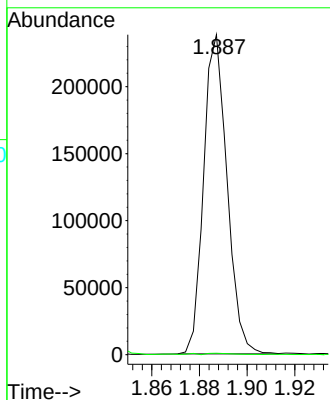
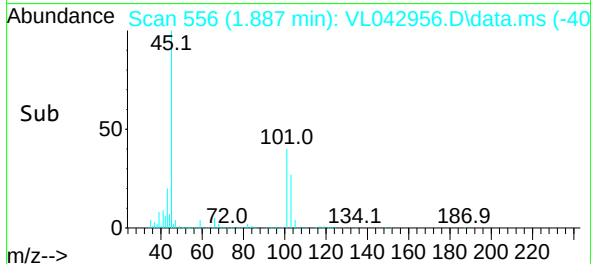
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



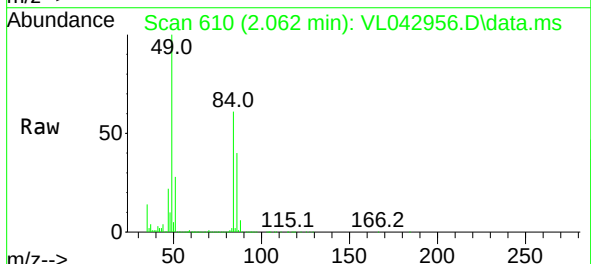
Tgt Ion: 45 Resp: 162952
Ion Ratio Lower Upper
45 100
58 39.0 31.0 46.6

Manual Integrations
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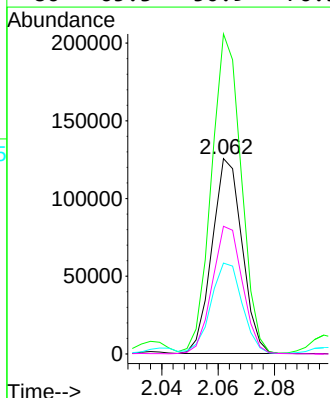
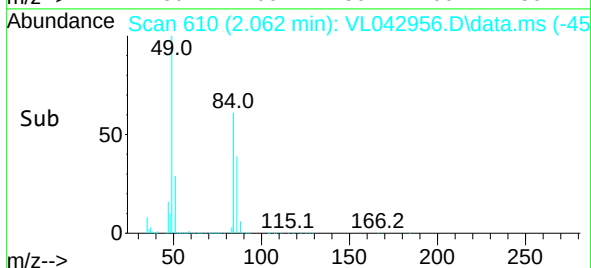
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

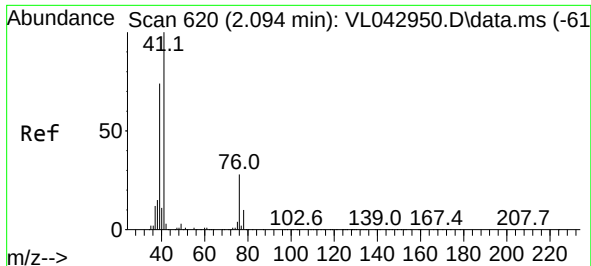


#20
Methylene Chloride
Concen: 14.996 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05



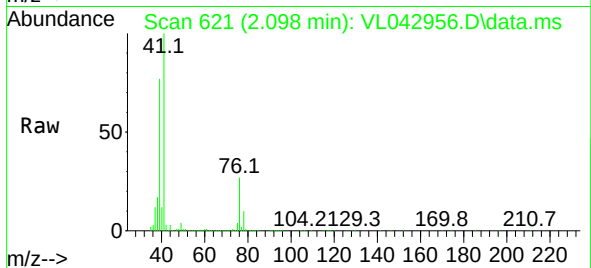
Tgt Ion: 84 Resp: 92708
Ion Ratio Lower Upper
84 100
49 163.6 124.1 186.1
51 46.4 39.8 59.8
86 65.3 50.9 76.3





#21
 Allyl Chloride
 Concen: 13.848 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

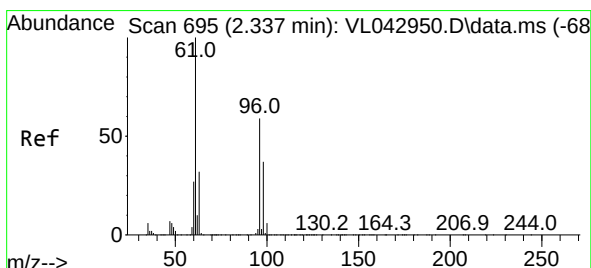
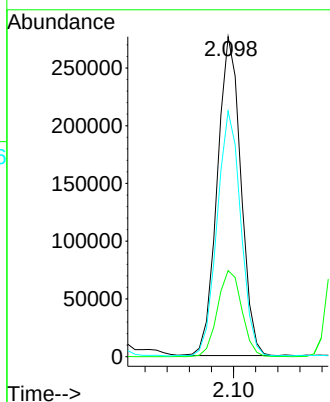
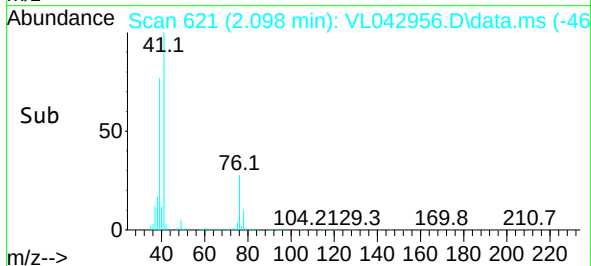
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



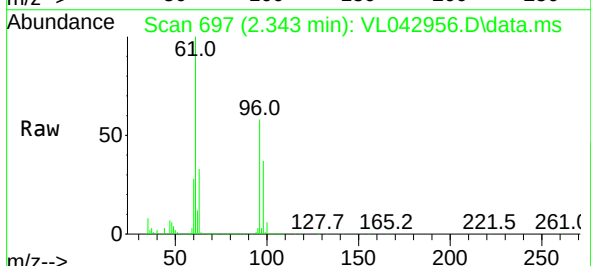
Tgt Ion: 41 Resp: 204552
 Ion Ratio Lower Upper
 41 100
 76 27.8 22.3 33.5
 39 76.9 61.3 91.9

Manual Integrations
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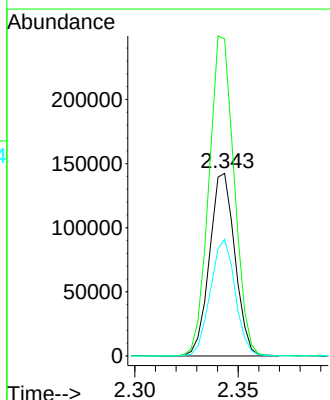
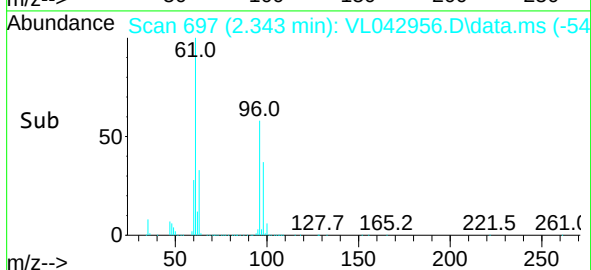
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

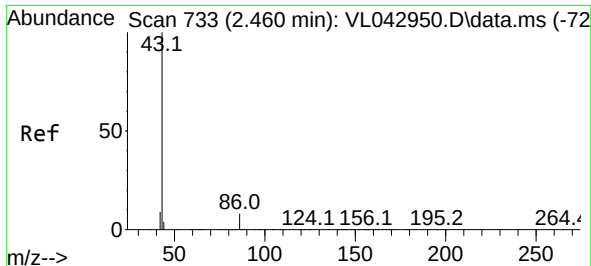


#22
 trans-1,2-Dichloroethene
 Concen: 13.542 ppbv
 RT: 2.343 min Scan# 697
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05



Tgt Ion: 96 Resp: 121815
 Ion Ratio Lower Upper
 96 100
 61 173.4 136.5 204.7
 98 63.8 50.6 76.0





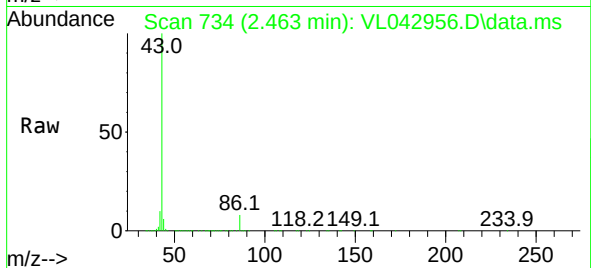
#23
 Vinyl Acetate
 Concen: 13.837 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

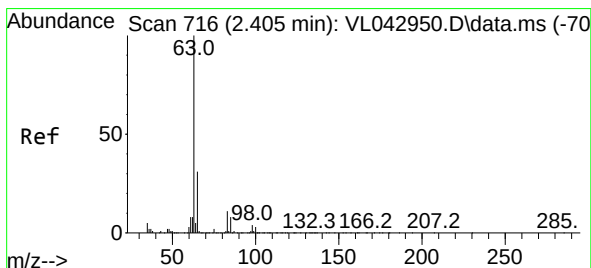
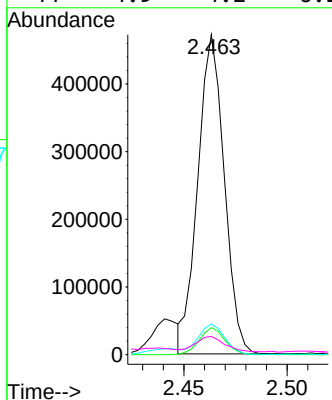
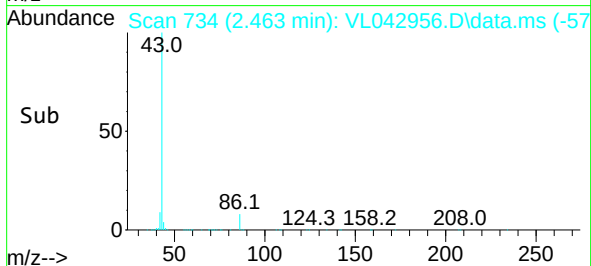


Tgt Ion: 43 Resp: 41925
 Ion Ratio Lower Upper
 43 100
 86 8.5 6.2 9.2
 42 9.5 7.4 11.0
 44 4.9 4.2 6.2

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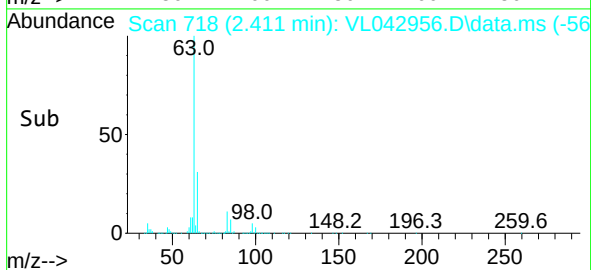
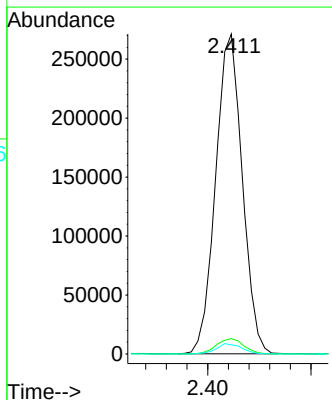
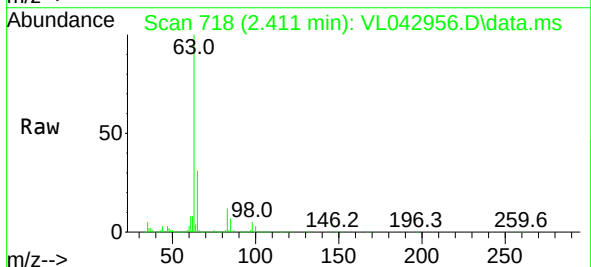
APPROVED

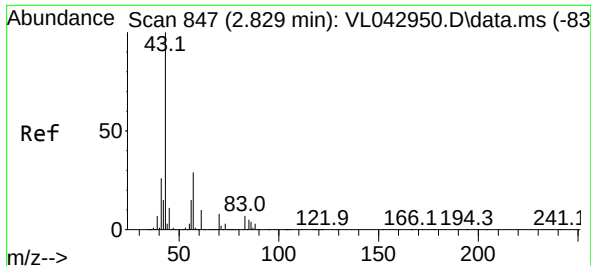
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#24
 1,1-Dichloroethane
 Concen: 13.789 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

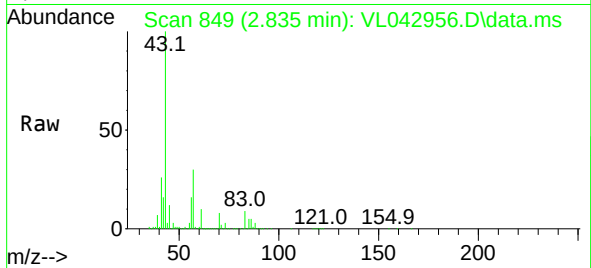
Tgt Ion: 63 Resp: 243229
 Ion Ratio Lower Upper
 63 100
 98 4.8 2.2 6.6
 100 2.9 1.4 4.0





#25
Ethyl Acetate
Concen: 13.514 ppbv
RT: 2.835 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

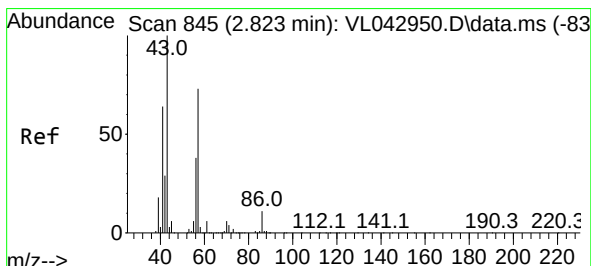
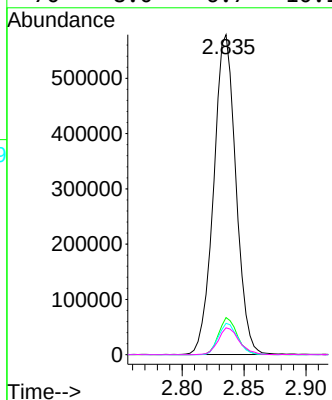
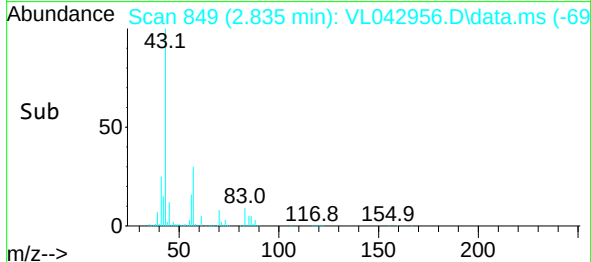
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 43 Resp: 724418
Ion Ratio Lower Upper
43 100
45 9.7 7.7 11.5
61 8.6 7.1 10.7
70 8.0 6.7 10.1

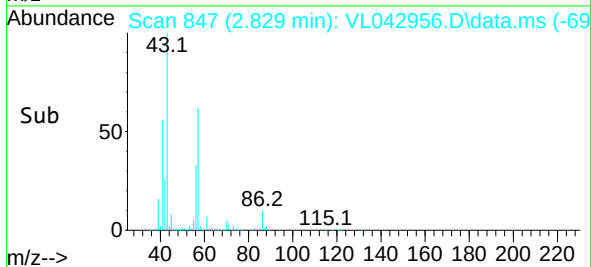
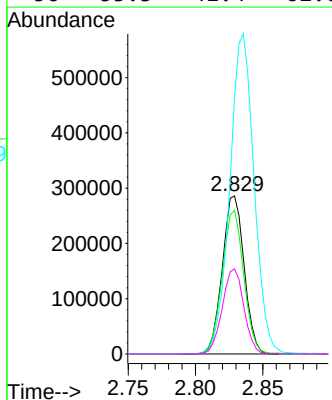
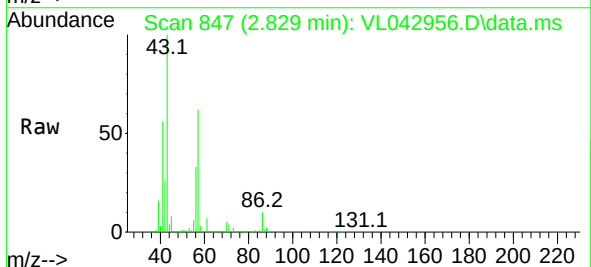
Manual Integrations
APPROVED

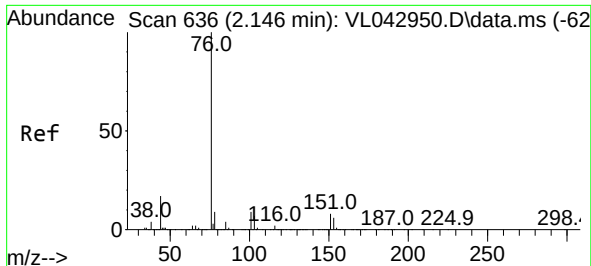
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#26
Hexane
Concen: 13.166 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 57 Resp: 321710
Ion Ratio Lower Upper
57 100
41 90.2 71.7 107.5
43 225.8 180.8 271.2
56 53.3 41.4 62.0





#27

Carbon Disulfide

Concen: 13.731 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 76 Resp: 30093

Ion Ratio Lower Upper

76 100

44 21.4 15.6 23.4

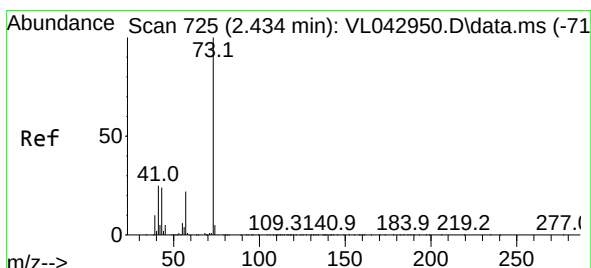
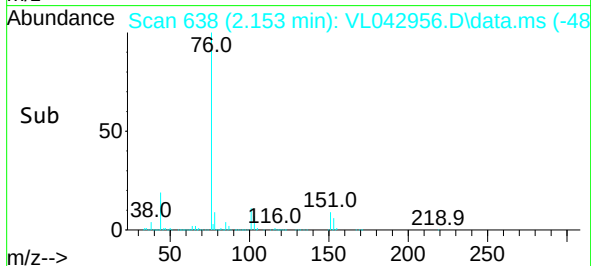
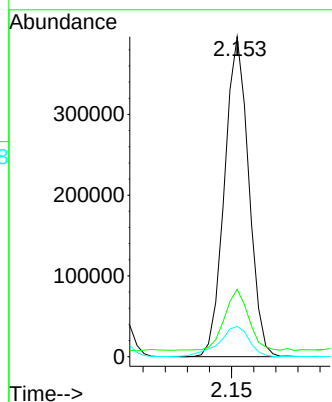
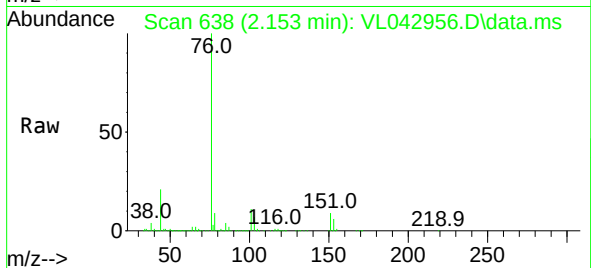
78 11.8 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#28

Methyl tert-Butyl Ether

Concen: 15.267 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.010 min

Lab File: VL042956.D

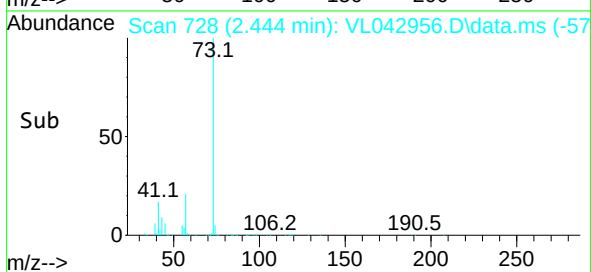
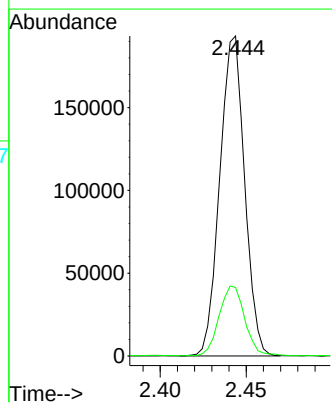
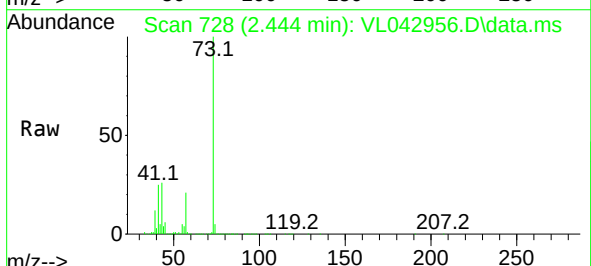
Acq: 22 Sep 2025 13:05

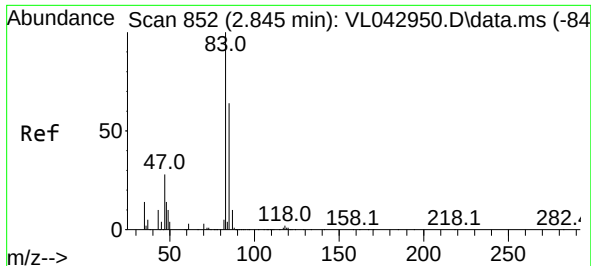
Tgt Ion: 73 Resp: 193915

Ion Ratio Lower Upper

73 100

57 22.6 20.6 31.0





#29

Chloroform

Concen: 13.796 ppbv

RT: 2.852 min Scan# 852

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 83 Resp: 440772

Ion Ratio Lower Upper

83 100

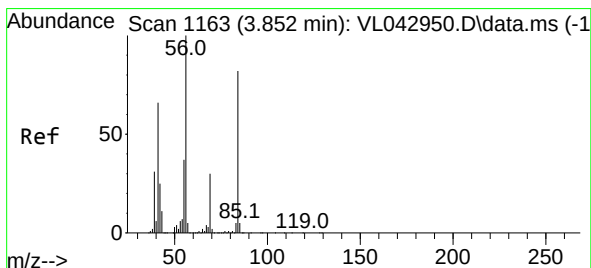
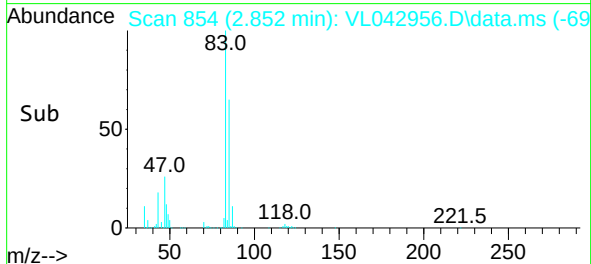
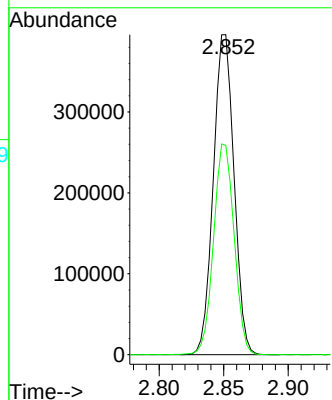
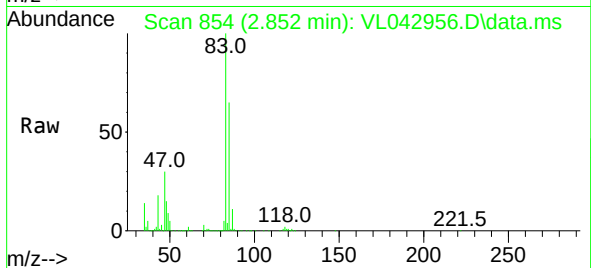
85 65.4 51.2 76.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#30

Cyclohexane

Concen: 13.800 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

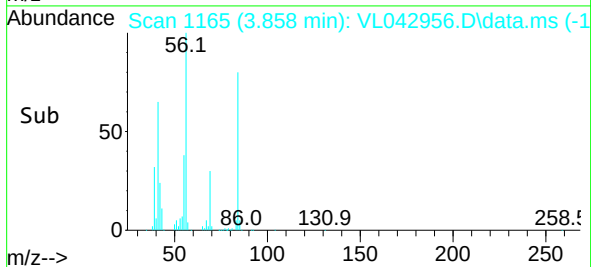
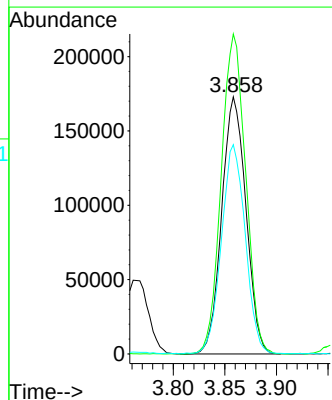
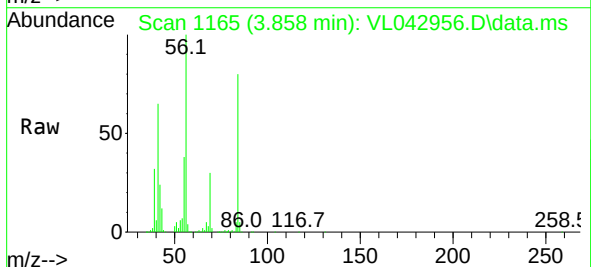
Tgt Ion: 84 Resp: 281932

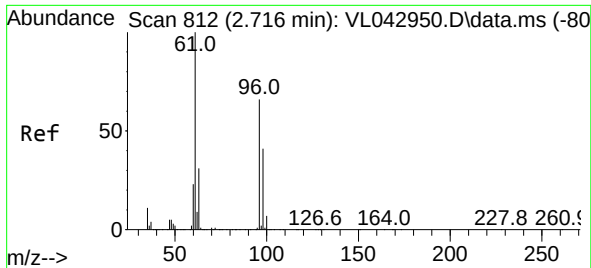
Ion Ratio Lower Upper

84 100

56 125.3 102.2 153.4

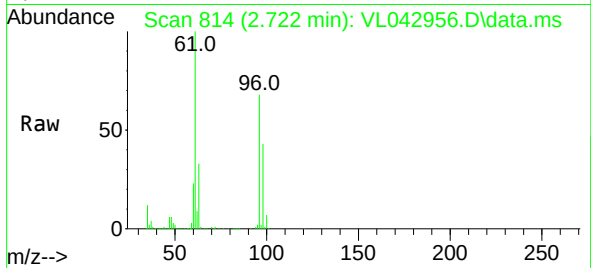
41 80.6 65.6 98.4





#31
cis-1,2-Dichloroethene
Concen: 13.869 ppbv
RT: 2.722 min Scan# 812
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

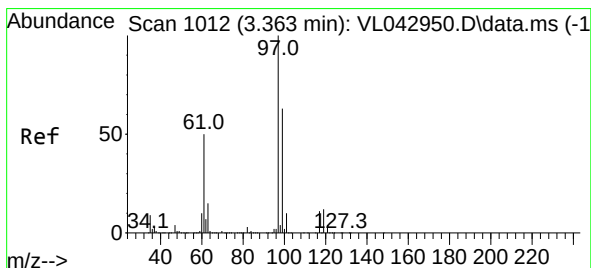
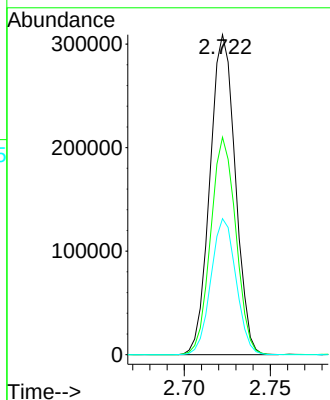
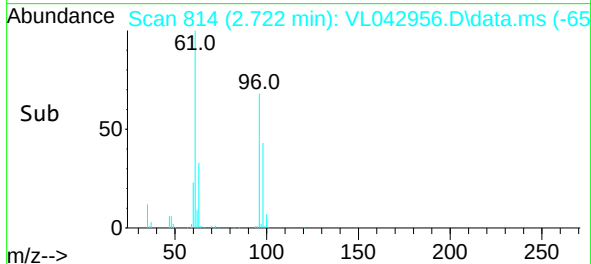
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



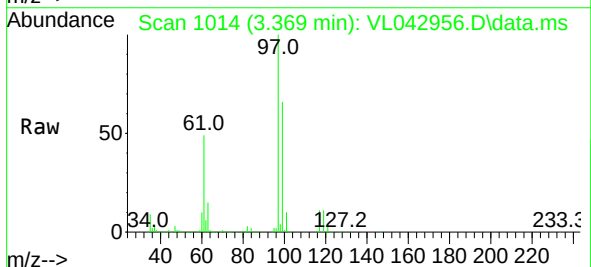
Tgt Ion: 61 Resp: 317450
Ion Ratio Lower Upper
61 100
96 67.9 53.0 79.6
98 42.5 32.9 49.3

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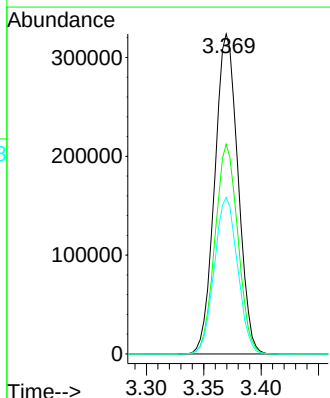
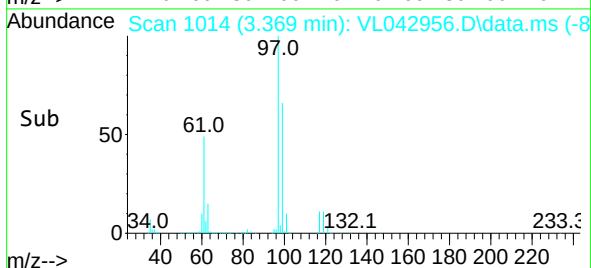
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

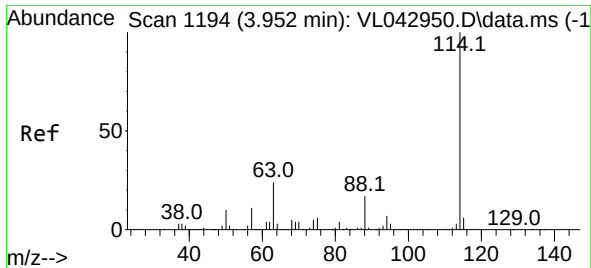


#32
1,1,1-Trichloroethane
Concen: 13.178 ppbv
RT: 3.369 min Scan# 1014
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05



Tgt Ion: 97 Resp: 456335
Ion Ratio Lower Upper
97 100
99 64.3 51.1 76.7
61 49.1 39.8 59.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

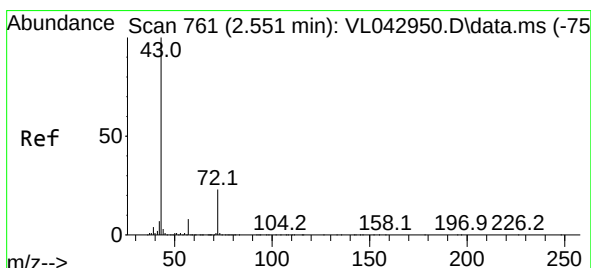
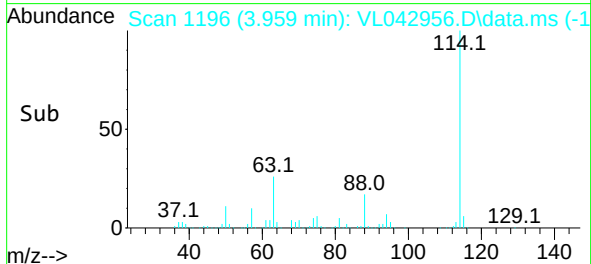
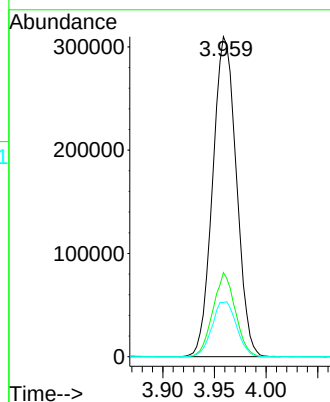
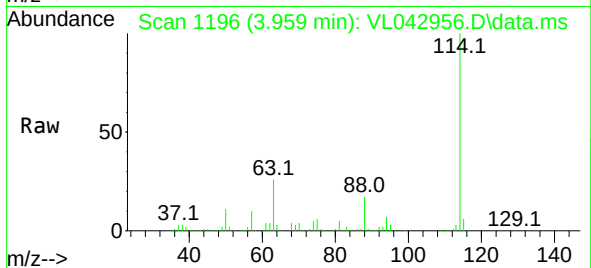
VSTDICC015

Tgt Ion:114	Resp: 494779
Ion Ratio	Lower Upper
114 100	
63 24.8	19.4 29.2
88 17.7	14.2 21.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#34

2-Butanone

Concen: 13.551 ppbv

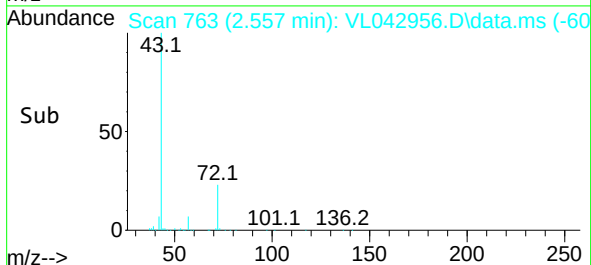
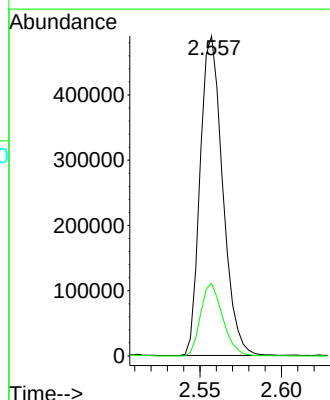
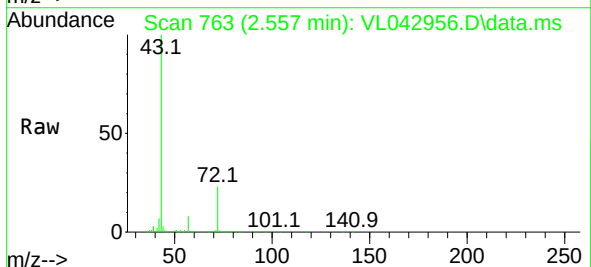
RT: 2.557 min Scan# 763

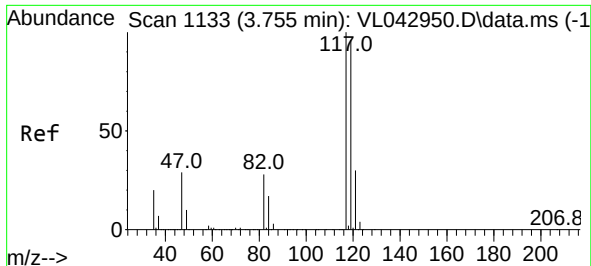
Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

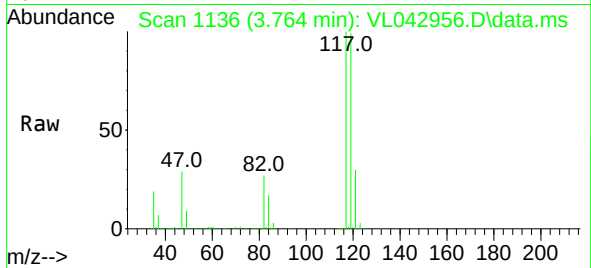
Tgt Ion: 43	Resp: 469872
Ion Ratio	Lower Upper
43 100	
72 22.4	17.7 26.5





#35
Carbon Tetrachloride
Concen: 14.385 ppbv
RT: 3.764 min Scan# 1133
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

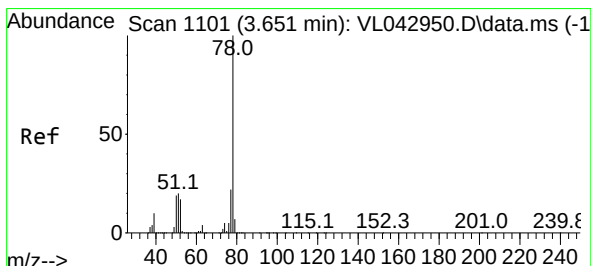
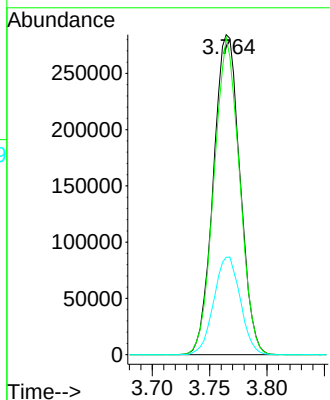
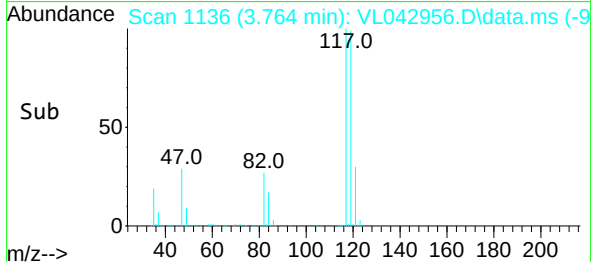
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:117 Resp: 457985
Ion Ratio Lower Upper
117 100
119 99.0 76.9 115.3
121 30.4 23.7 35.5

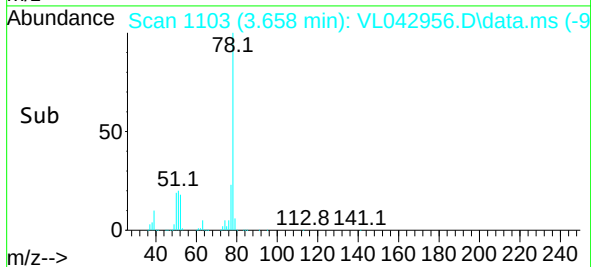
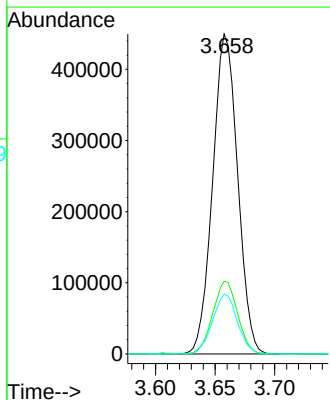
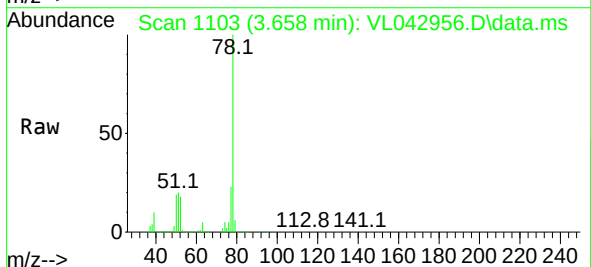
Manual Integrations
APPROVED

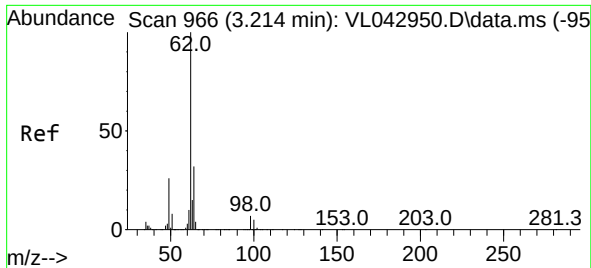
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#36
Benzene
Concen: 14.080 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

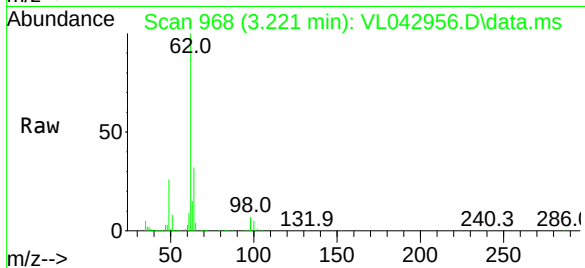
Tgt Ion: 78 Resp: 654205
Ion Ratio Lower Upper
78 100
77 22.7 17.8 26.6
50 18.7 15.0 22.4





#37
1,2-Dichloroethane
Concen: 14.358 ppbv
RT: 3.221 min Scan# 966
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

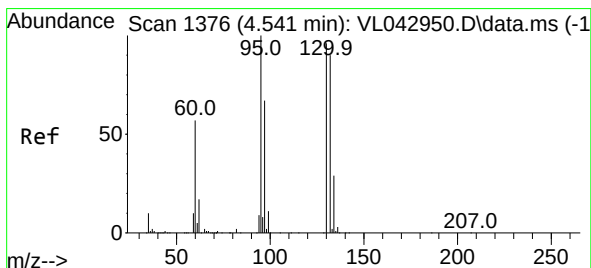
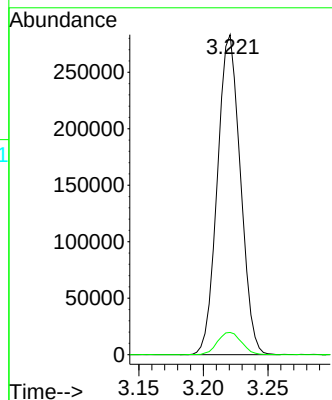
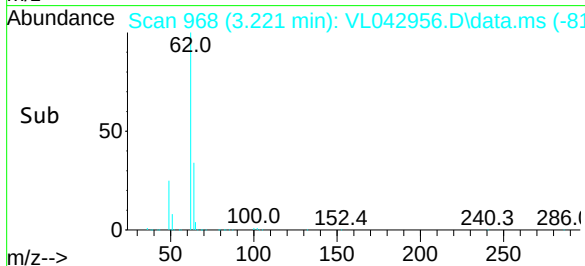
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



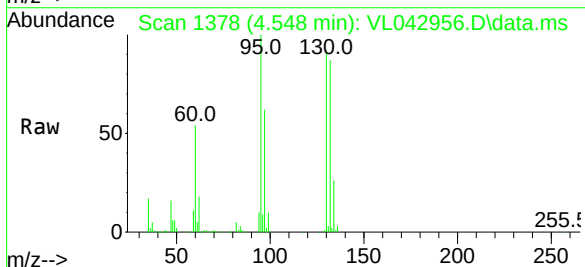
Tgt Ion: 62 Resp: 35084
Ion Ratio Lower Upper
62 100
98 7.3 5.9 8.9

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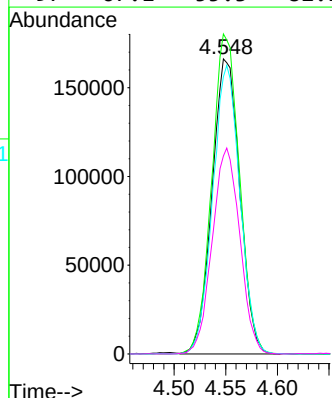
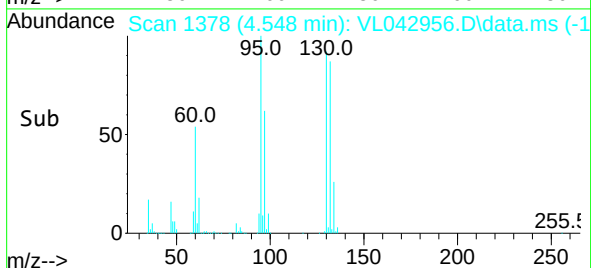
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

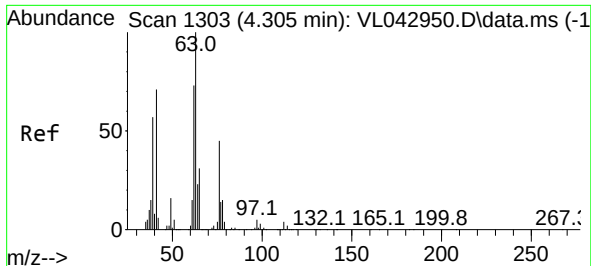


#38
Trichloroethene
Concen: 13.450 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05



Tgt Ion:130 Resp: 310602
Ion Ratio Lower Upper
130 100
95 108.4 83.0 124.4
132 93.7 74.6 112.0
97 67.1 55.3 82.9





#39

1,2-Dichloropropane

Concen: 14.218 ppbv

RT: 4.315 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

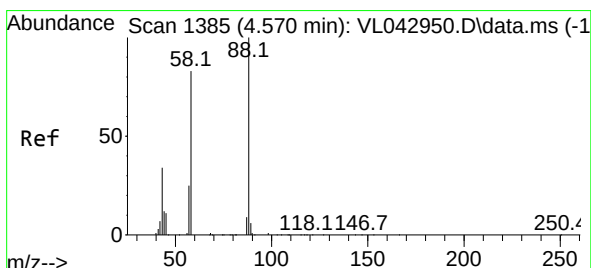
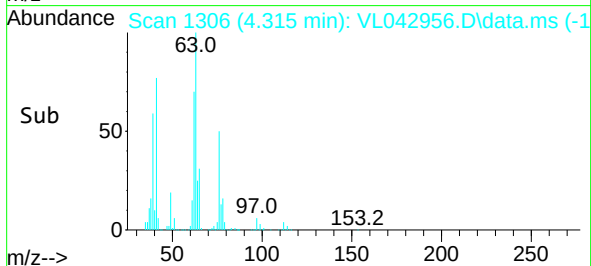
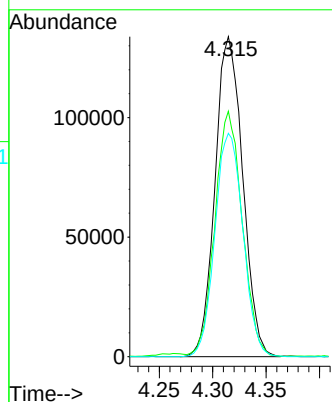
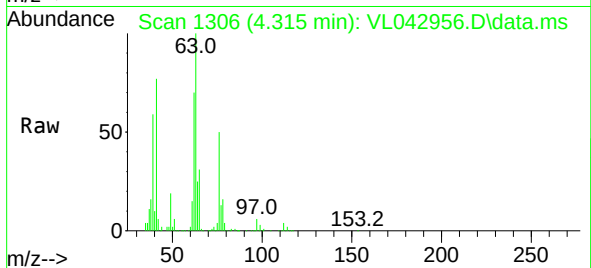
VSTDICC015

Tgt Ion: 63	Resp: 24132
Ion Ratio	Lower Upper
63 100	
41 76.5	57.5 86.3
62 69.8	58.5 87.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#40

1,4-Dioxane

Concen: 13.306 ppbv

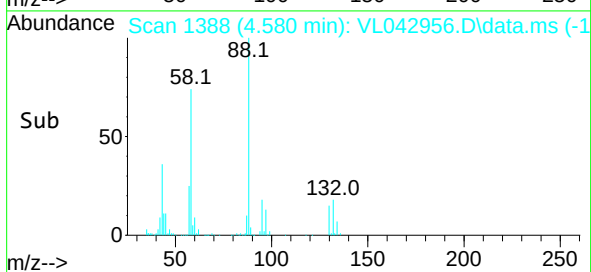
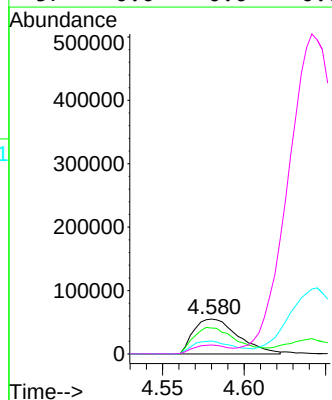
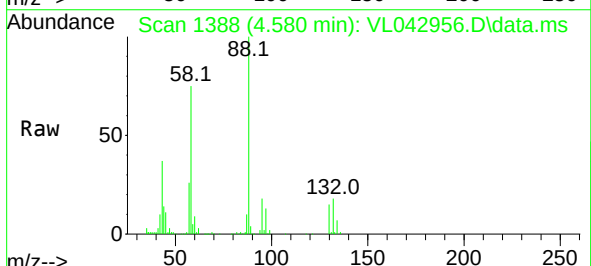
RT: 4.580 min Scan# 1388

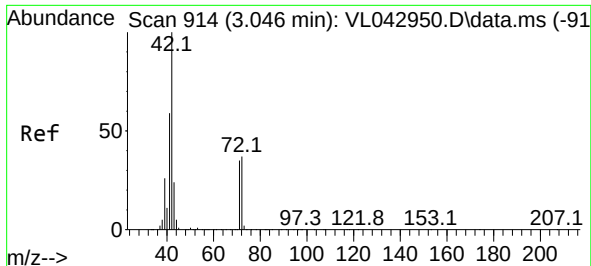
Delta R.T. 0.010 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

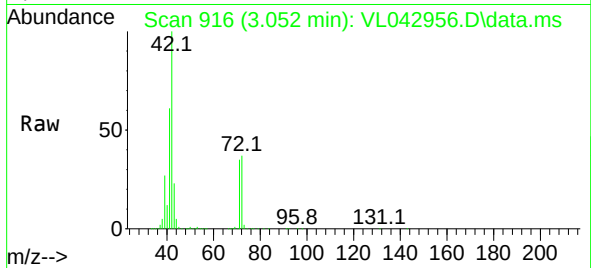
Tgt Ion: 88	Resp: 104884
Ion Ratio	Lower Upper
88 100	
58 73.6	59.7 89.5
43 34.3	28.9 43.3
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 13.855 ppbv
RT: 3.052 min Scan# 914
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

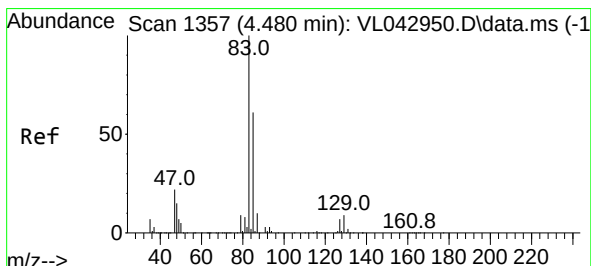
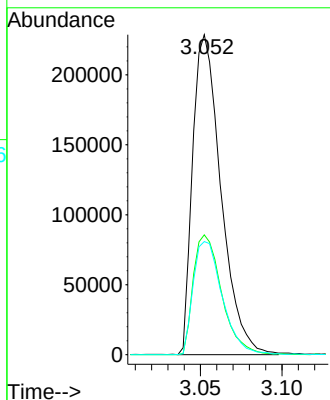
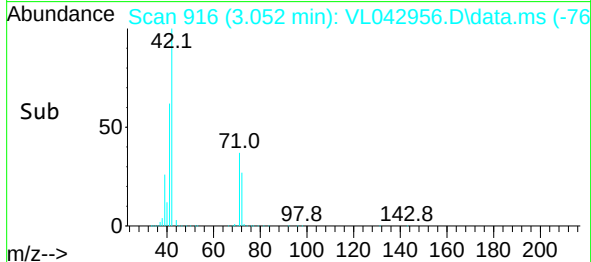
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 42 Resp: 27615
Ion Ratio Lower Upper
42 100
72 37.7 30.0 45.0
71 36.6 28.8 43.2

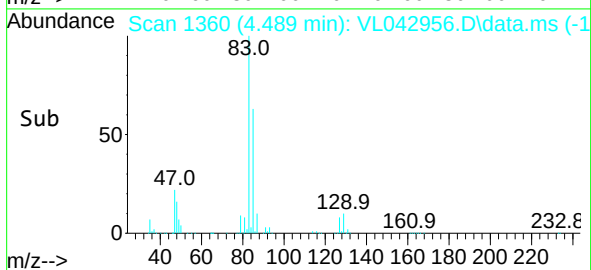
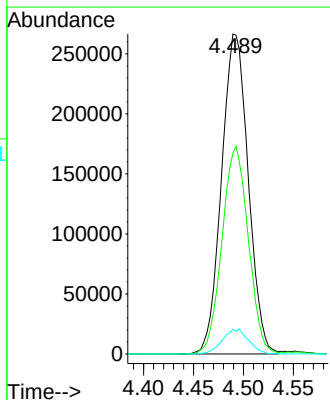
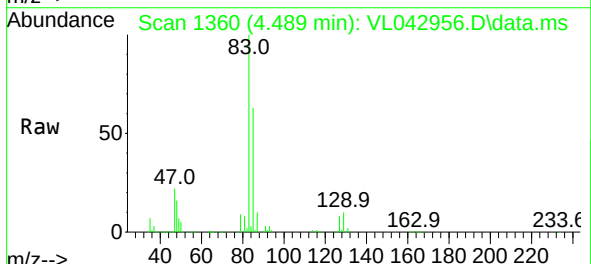
Manual Integrations
APPROVED

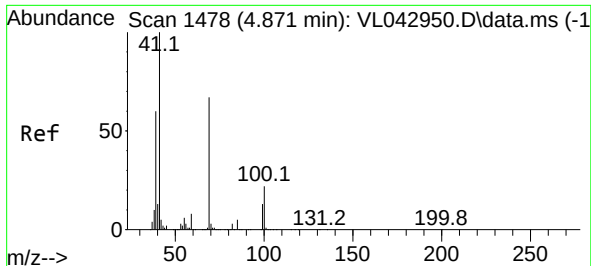
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#42
Bromodichloromethane
Concen: 14.544 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 83 Resp: 495091
Ion Ratio Lower Upper
83 100
85 62.8 49.0 73.6
127 7.7 5.3 7.9





#43
Methyl Methacrylate
Concen: 13.979 ppbv
RT: 4.881 min Scan# 1478
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

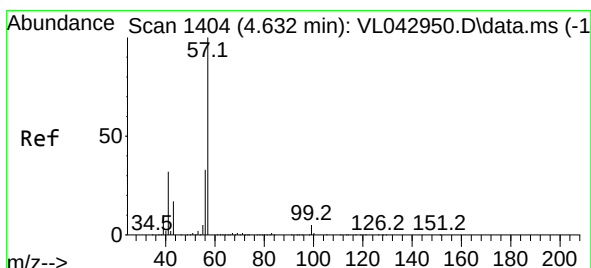
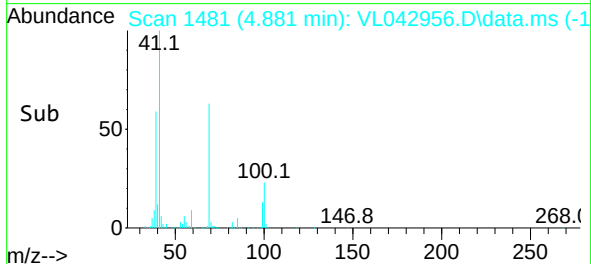
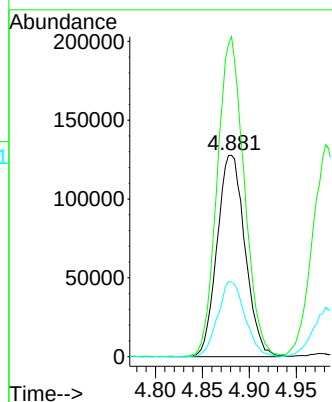
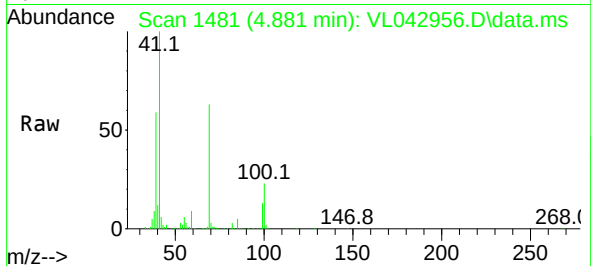
VSTDIC015

Tgt Ion: 69 Resp: 263659
Ion Ratio Lower Upper
69 100
41 153.6 124.5 186.7
100 36.4 29.0 43.6

Manual Integrations

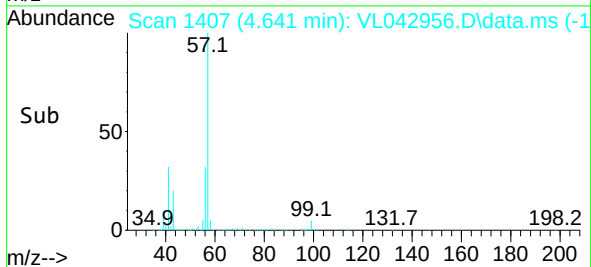
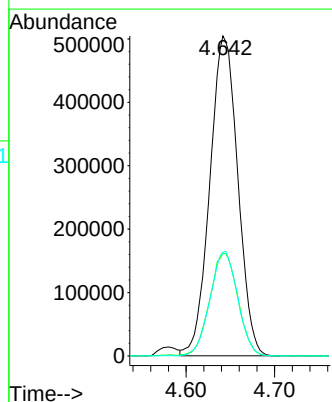
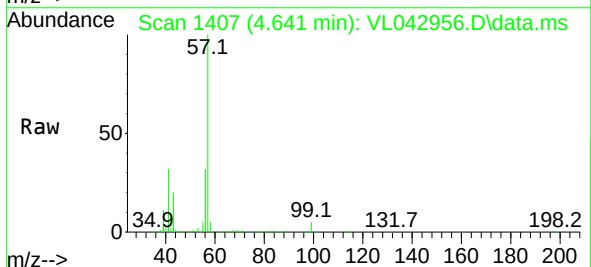
APPROVED

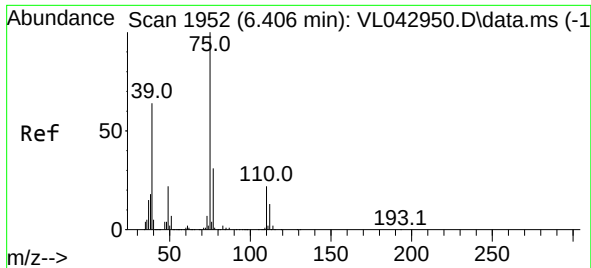
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#44
2,2,4-Trimethylpentane
Concen: 13.791 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

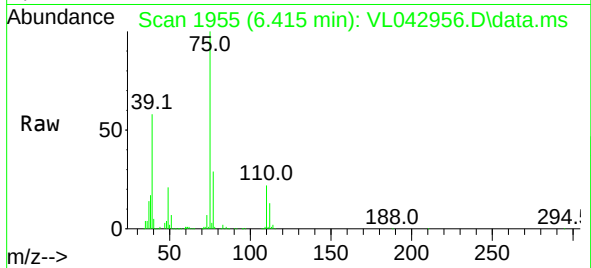
Tgt Ion: 57 Resp: 1107180
Ion Ratio Lower Upper
57 100
41 32.6 25.5 38.3
56 32.3 25.8 38.8





#45
 t-1,3-Dichloropropene
 Concen: 14.694 ppbv
 RT: 6.415 min Scan# 1952
 Delta R.T. 0.010 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

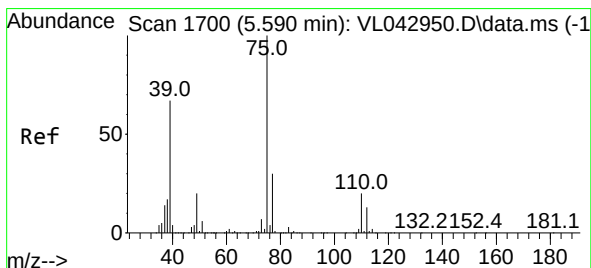
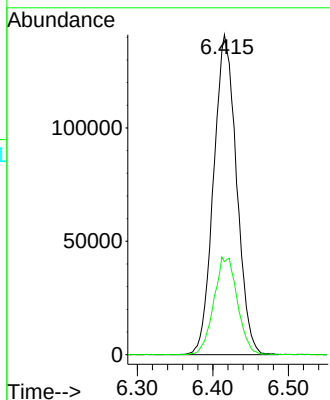
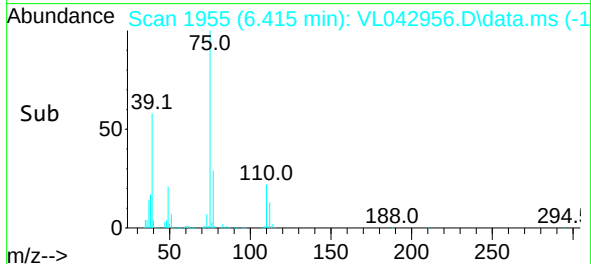
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 75 Resp: 298019
 Ion Ratio Lower Upper
 75 100
 77 29.0 25.0 37.4

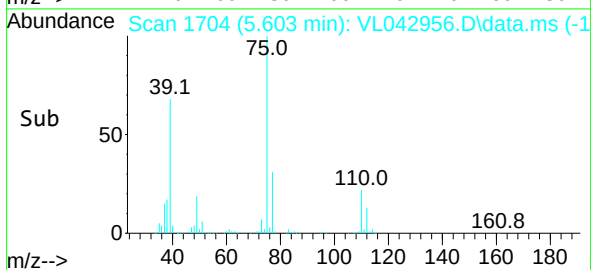
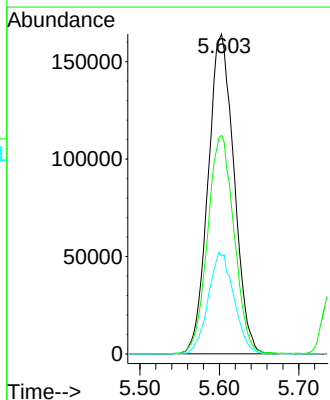
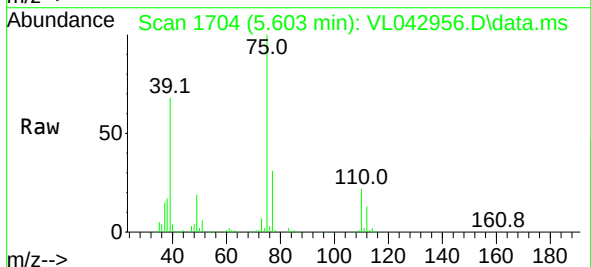
Manual Integrations
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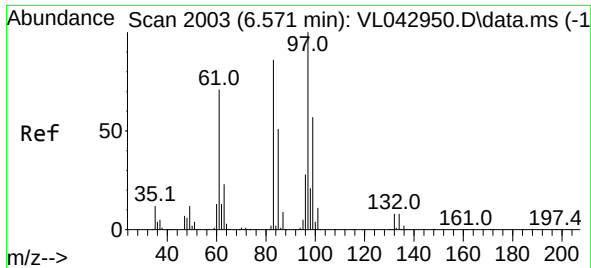
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#46
 cis-1,3-Dichloropropene
 Concen: 14.389 ppbv
 RT: 5.603 min Scan# 1704
 Delta R.T. 0.013 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

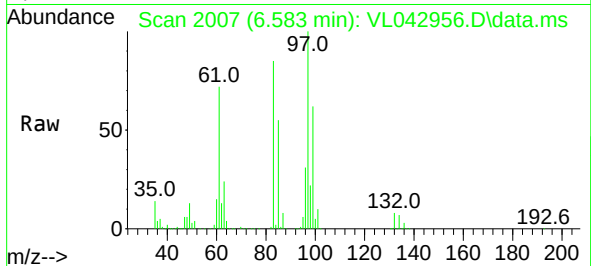
Tgt Ion: 75 Resp: 371770
 Ion Ratio Lower Upper
 75 100
 39 68.2 53.8 80.6
 77 30.5 23.6 35.4





#47
1,1,2-Trichloroethane
Concen: 13.909 ppbv
RT: 6.583 min Scan# 2007
Delta R.T. 0.013 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

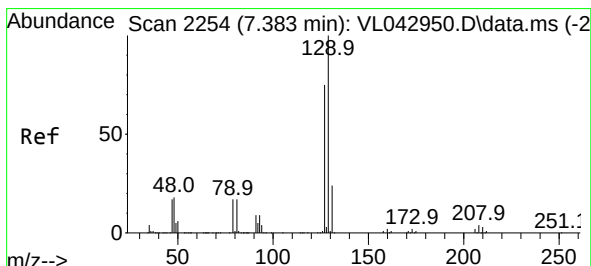
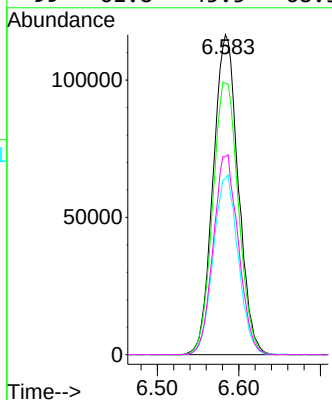
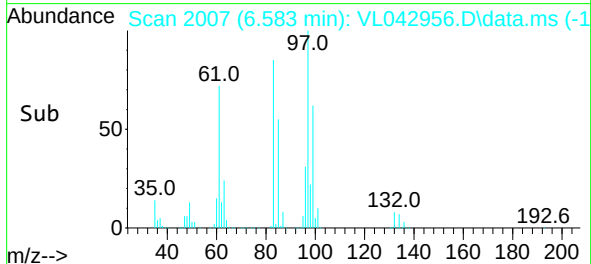
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 97 Resp: 24945
Ion Ratio Lower Upper
97 100
83 84.9 68.7 103.1
85 55.1 40.6 60.8
99 61.8 45.5 68.3

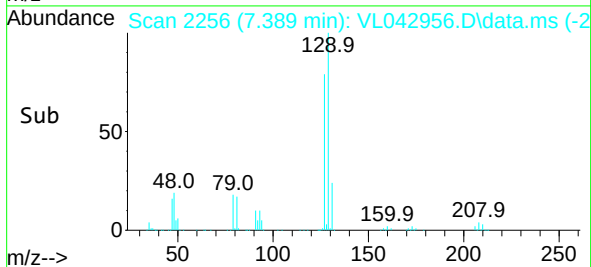
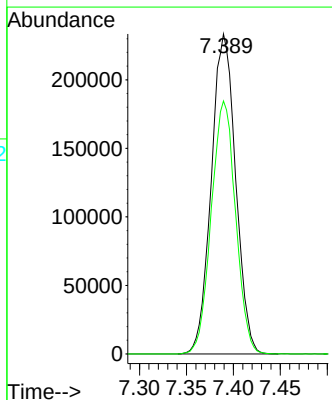
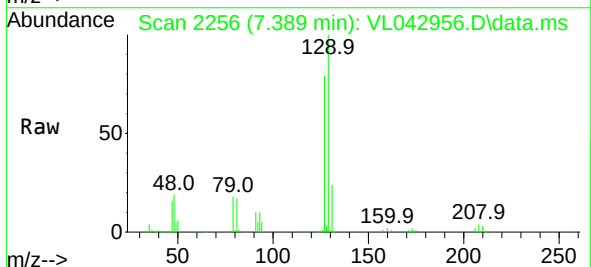
Manual Integrations
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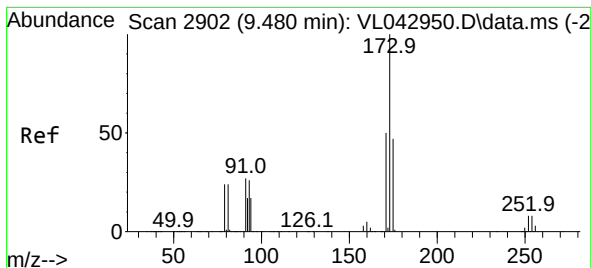
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#48
Dibromochloromethane
Concen: 14.709 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion:129 Resp: 421755
Ion Ratio Lower Upper
129 100
127 78.7 39.1 117.2





#49

Bromoform

Concen: 14.719 ppbv

RT: 9.487 min Scan# 2902

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

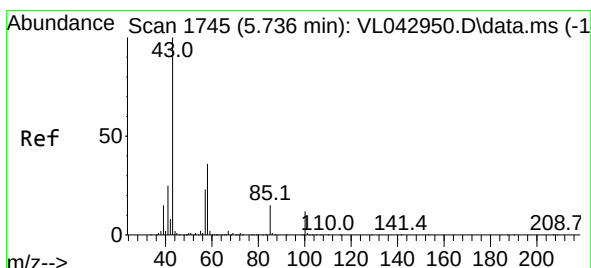
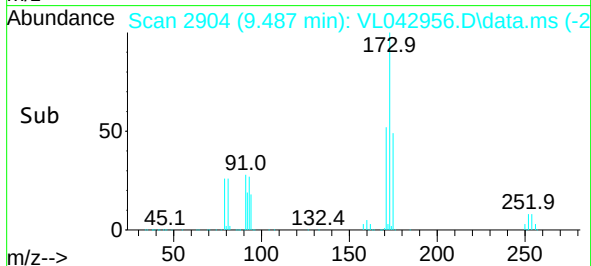
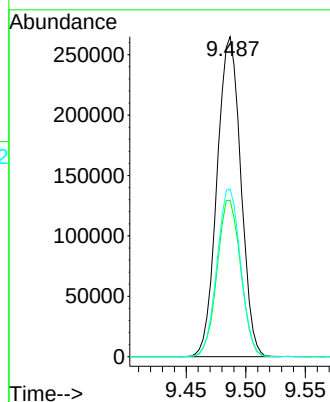
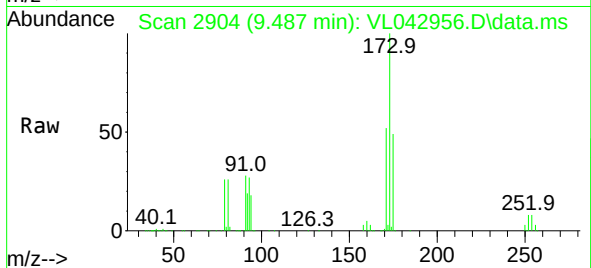
VSTDICC015

Tgt Ion:	173	Resp:	367120
Ion Ratio	Lower	Upper	
173	100		
175	48.6	37.9	56.9
171	52.0	41.1	61.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#50

4-Methyl-2-Pentanone

Concen: 14.293 ppbv

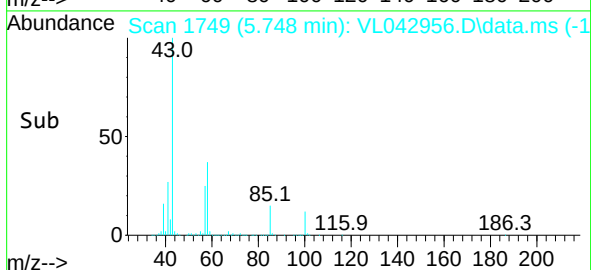
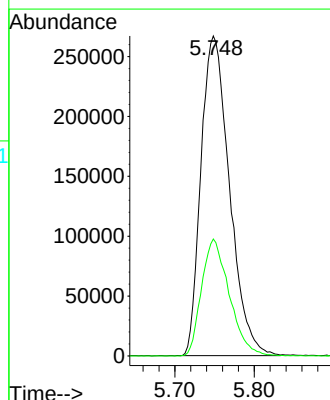
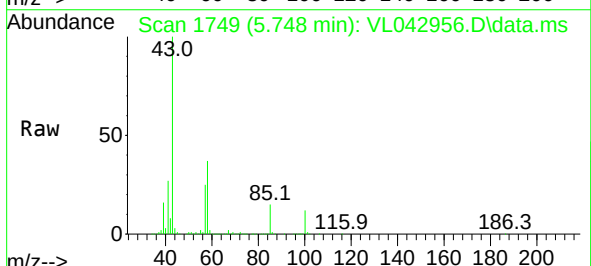
RT: 5.748 min Scan# 1749

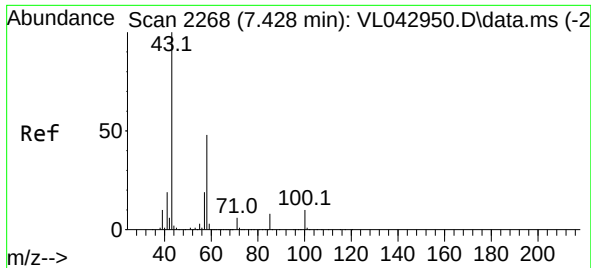
Delta R.T. 0.013 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

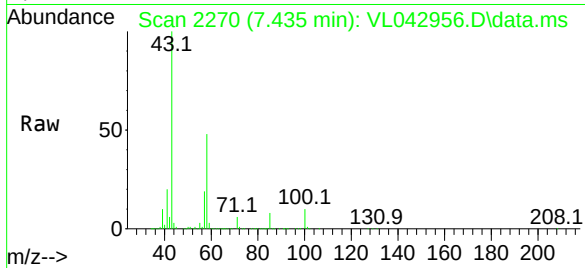
Tgt Ion:	43	Resp:	666049
Ion Ratio	Lower	Upper	
43	100		
58	35.7	28.4	42.6





#51
2-Hexanone
Concen: 14.620 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

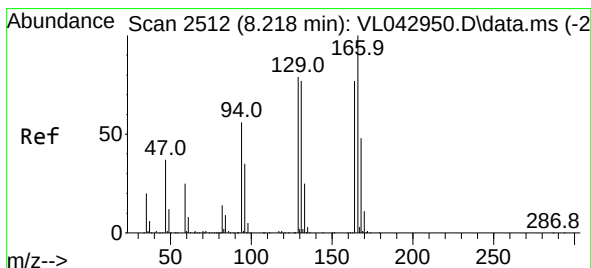
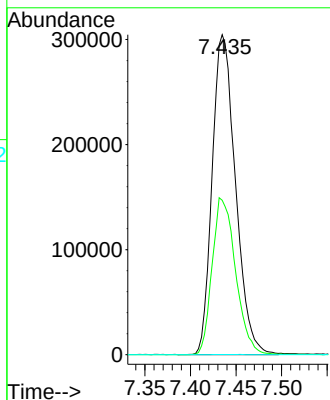
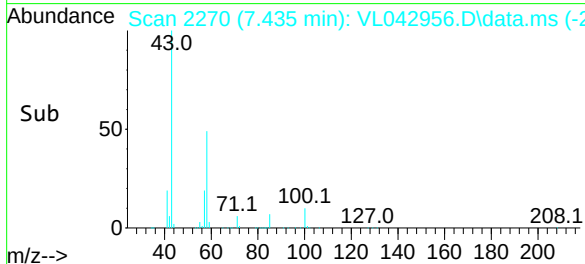
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 43 Resp: 54161
Ion Ratio Lower Upper
43 100
58 49.4 39.7 59.5
98 0.1 0.1 0.1

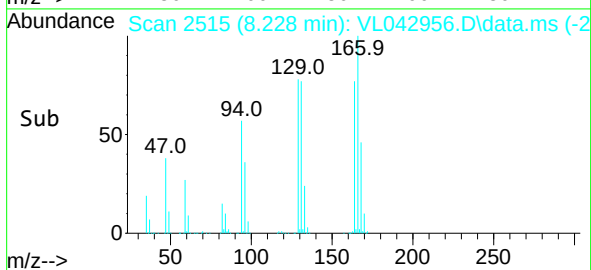
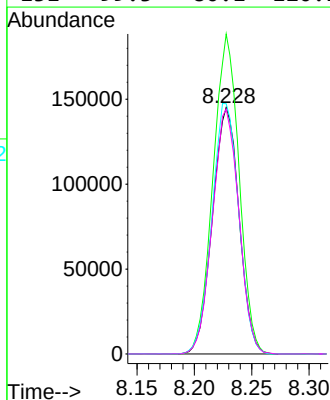
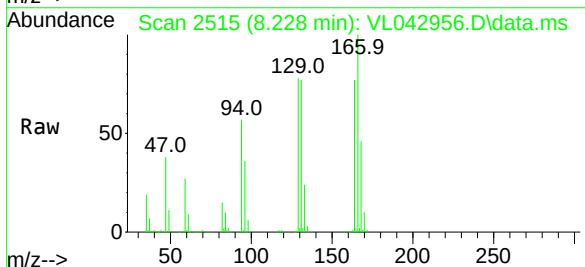
Manual Integrations
APPROVED

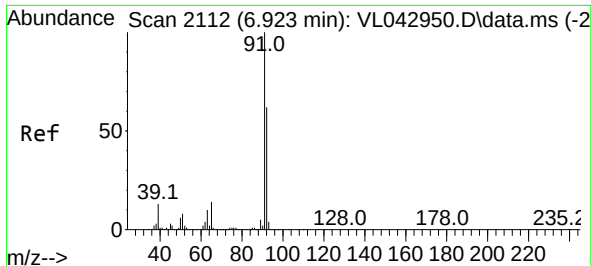
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#52
Tetrachloroethene
Concen: 13.015 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

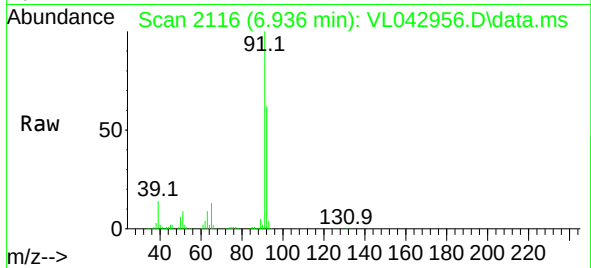
Tgt Ion:164 Resp: 233980
Ion Ratio Lower Upper
164 100
166 129.8 103.5 155.3
129 101.4 82.2 123.4
131 99.3 80.1 120.1





#53
Toluene
Concen: 13.915 ppbv
RT: 6.936 min Scan# 2112
Delta R.T. 0.013 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

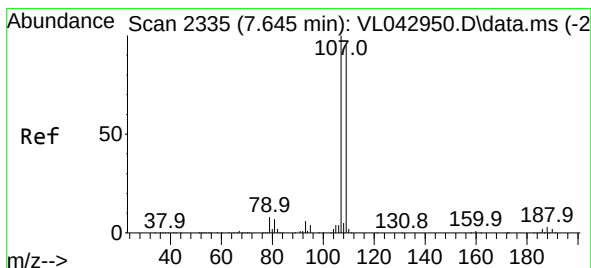
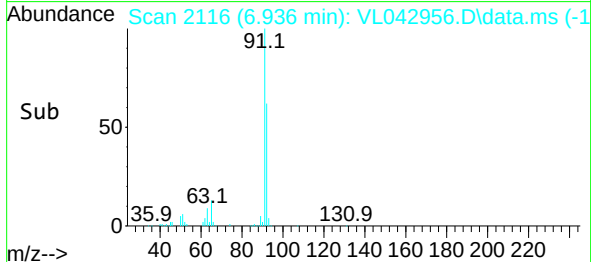
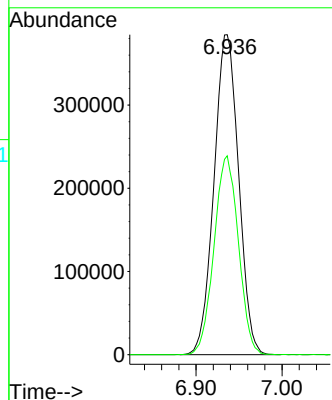
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 91 Resp: 765210
Ion Ratio Lower Upper
91 100
92 61.5 48.2 72.2

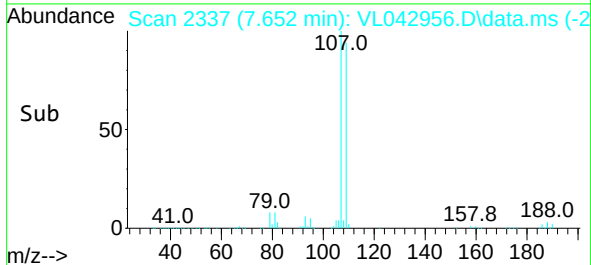
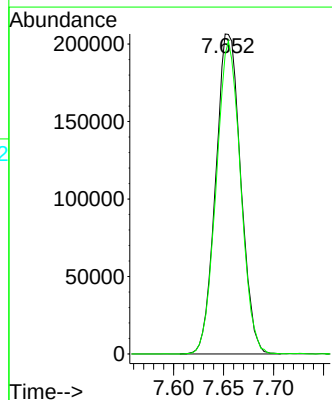
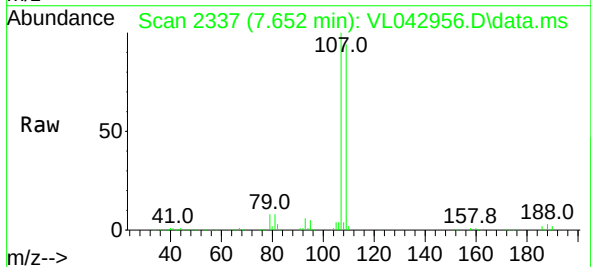
Manual Integrations
APPROVED

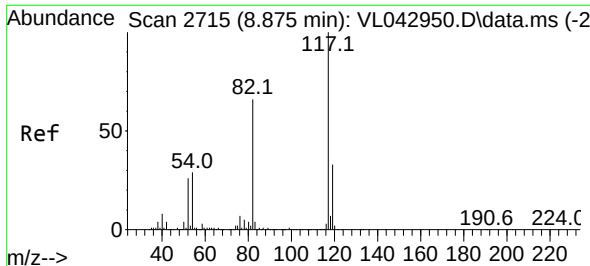
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#54
1,2-Dibromoethane
Concen: 14.261 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

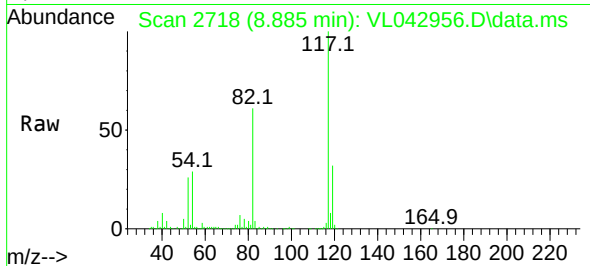
Tgt Ion:107 Resp: 359750
Ion Ratio Lower Upper
107 100
109 93.6 75.8 113.8





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2715
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

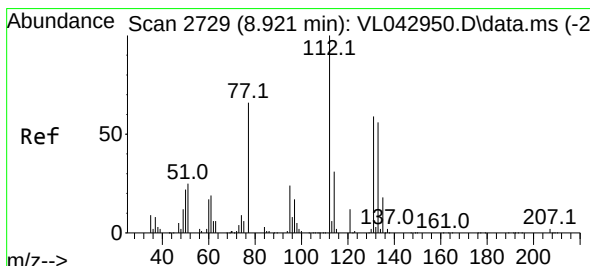
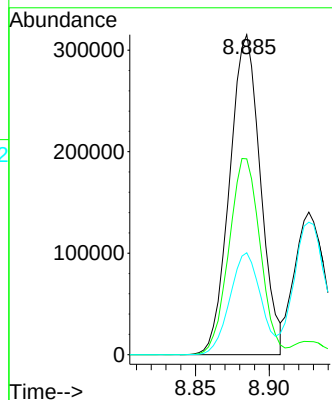
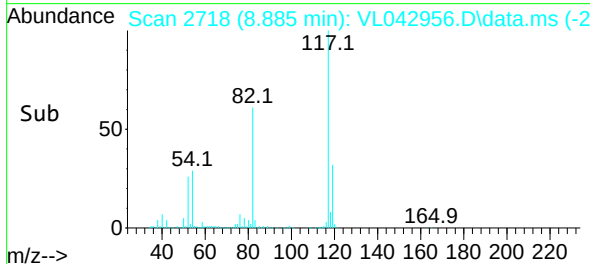
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



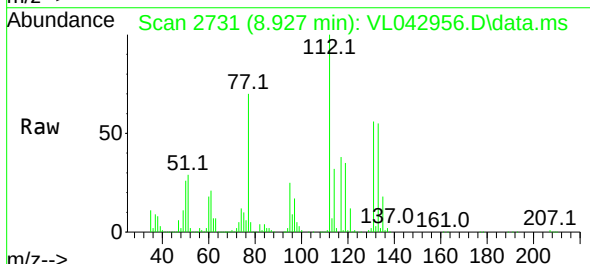
Tgt Ion:117 Resp: 458250
Ion Ratio Lower Upper
117 100
82 66.3 52.8 79.2
119 32.0 26.5 39.7

Manual Integrations
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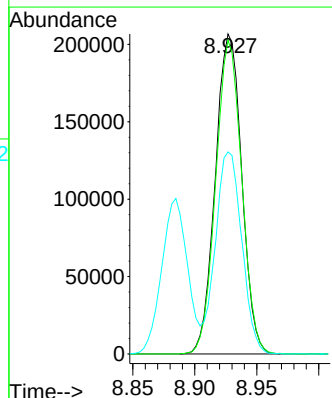
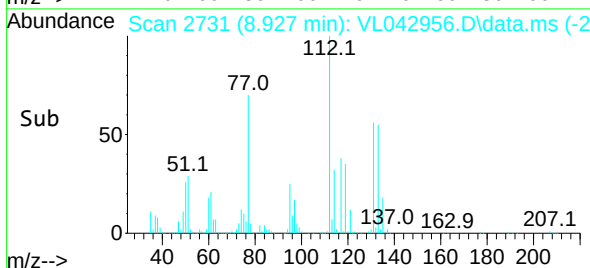
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

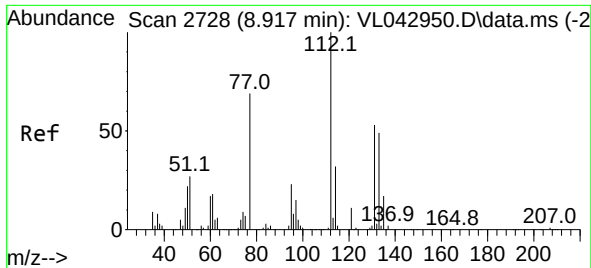


#56
1,1,1,2-Tetrachloroethane
Concen: 13.994 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05



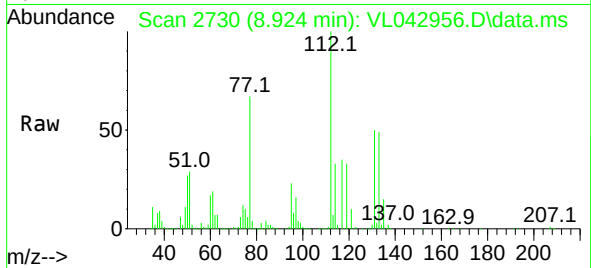
Tgt Ion:131 Resp: 306952
Ion Ratio Lower Upper
131 100
133 96.4 76.6 114.8
119 63.3 49.9 74.9





#57
Chlorobenzene
Concen: 13.507 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

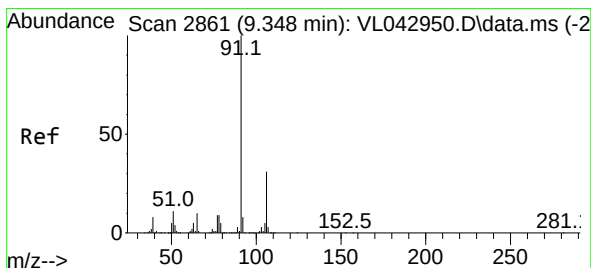
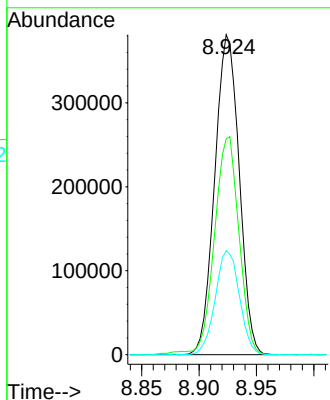
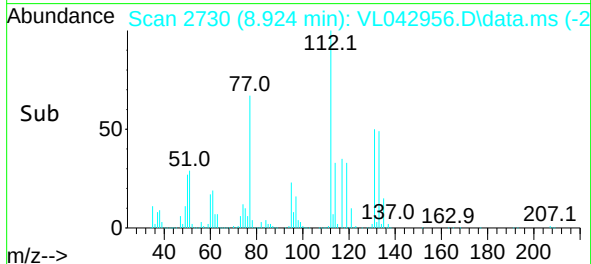
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



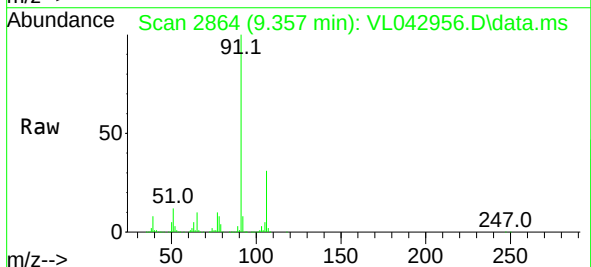
Tgt Ion: 112 Resp: 56506
Ion Ratio Lower Upper
112 100
77 67.4 55.7 83.5
114 32.5 28.6 35.0

Manual Integrations
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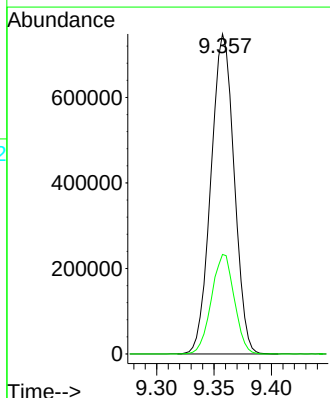
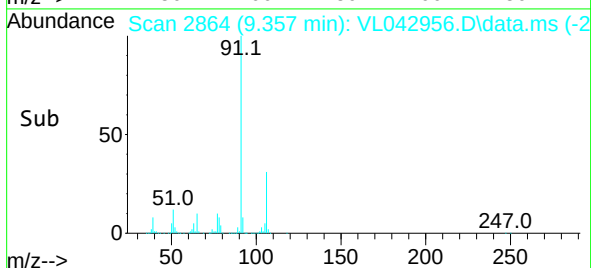
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

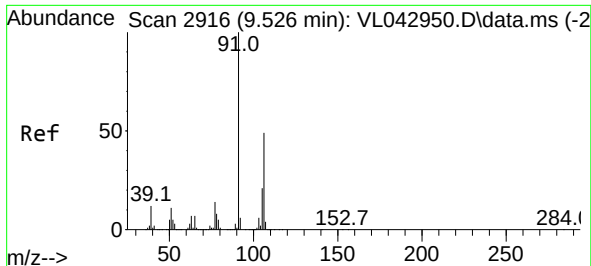


#58
Ethyl Benzene
Concen: 13.985 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05



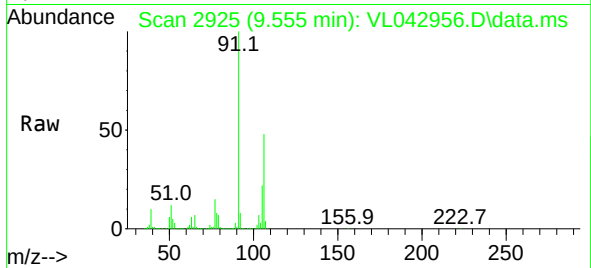
Tgt Ion: 91 Resp: 1052303
Ion Ratio Lower Upper
91 100
106 31.1 24.6 37.0





#59
m/p-Xylene
Concen: 27.557 ppbv m
RT: 9.555 min Scan# 2916
Delta R.T. 0.029 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

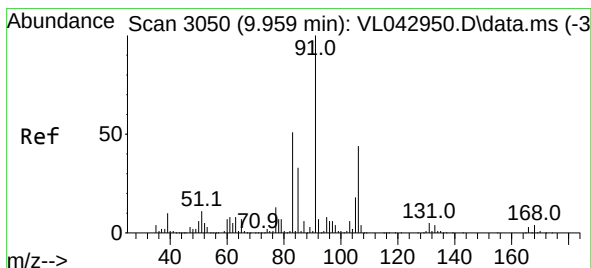
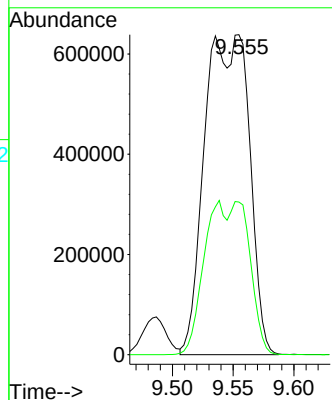
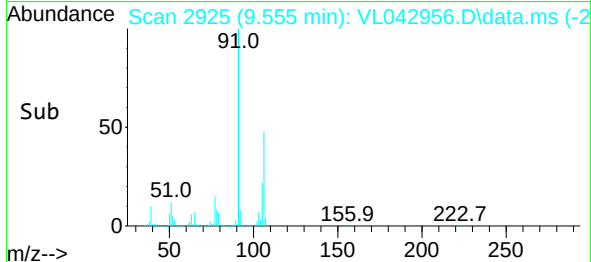
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



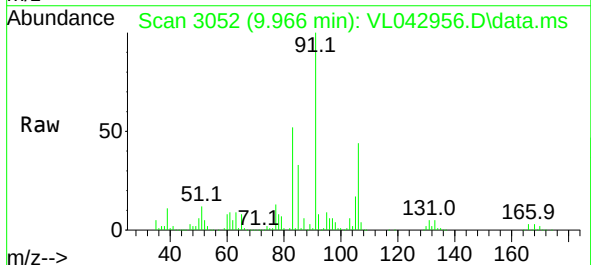
Tgt Ion: 91 Resp: 1636030
Ion Ratio Lower Upper
91 100
106 47.8 0.0 0.0

Manual Integrations
APPROVED

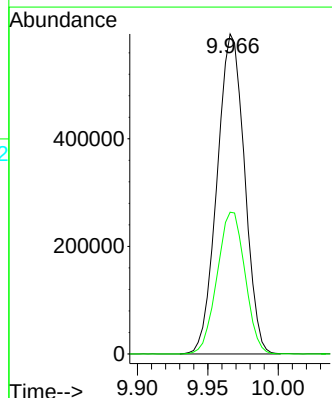
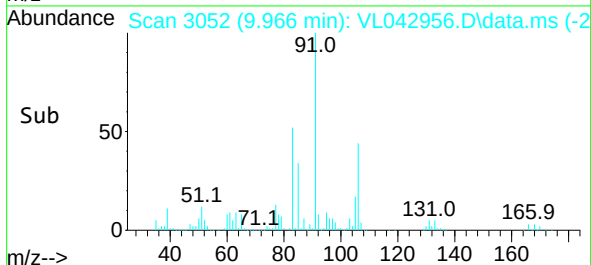
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

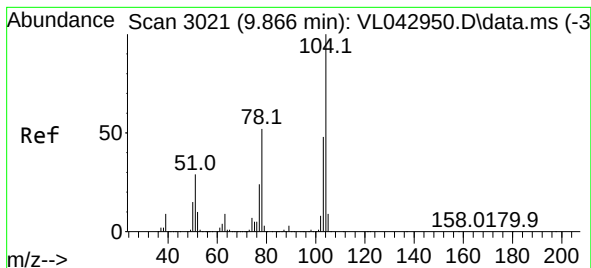


#60
o-Xylene
Concen: 13.629 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05



Tgt Ion: 91 Resp: 808098
Ion Ratio Lower Upper
91 100
106 45.0 22.4 67.0





#61

Styrene

Concen: 14.330 ppbv

RT: 9.872 min Scan# 3021

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:104 Resp: 40189

Ion Ratio Lower Upper

104 100

78 48.8 39.9 59.9

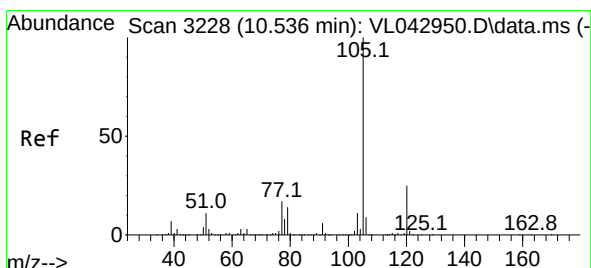
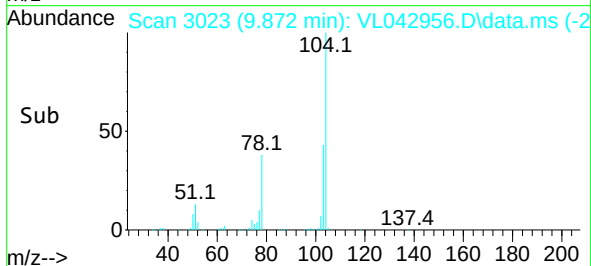
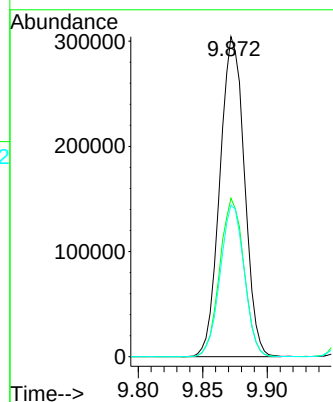
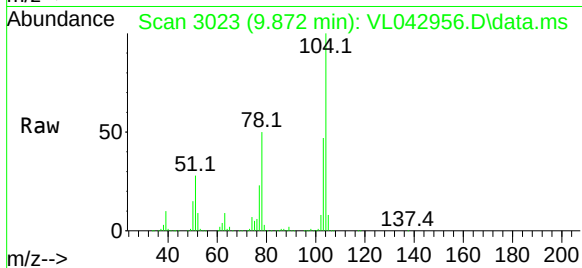
103 46.5 36.9 55.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#62

Isopropylbenzene

Concen: 13.564 ppbv

RT: 10.542 min Scan# 3230

Delta R.T. 0.006 min

Lab File: VL042956.D

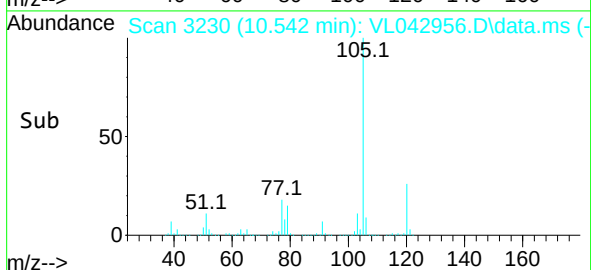
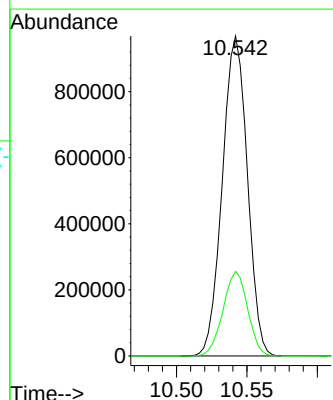
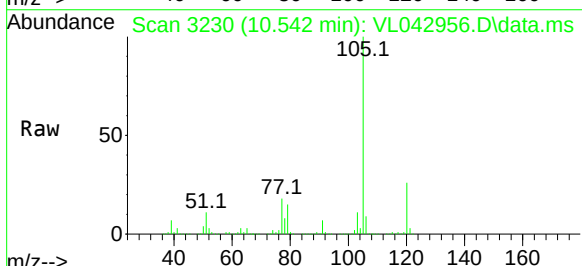
Acq: 22 Sep 2025 13:05

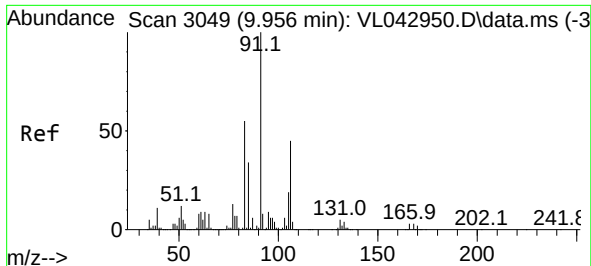
Tgt Ion:105 Resp: 1198767

Ion Ratio Lower Upper

105 100

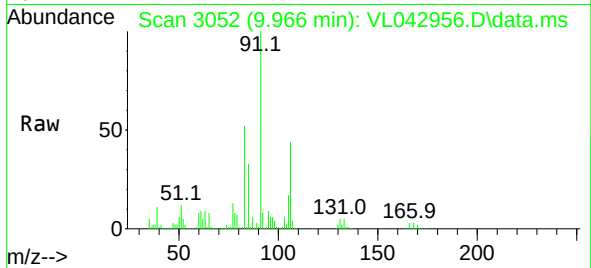
120 25.9 20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 12.932 ppbv
RT: 9.966 min Scan# 3049
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

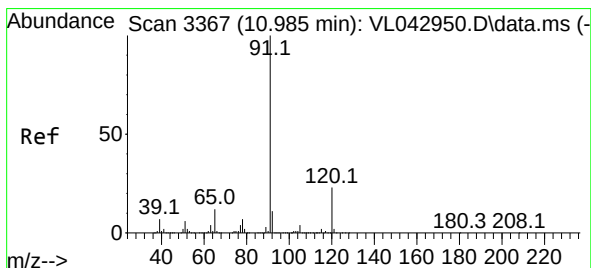
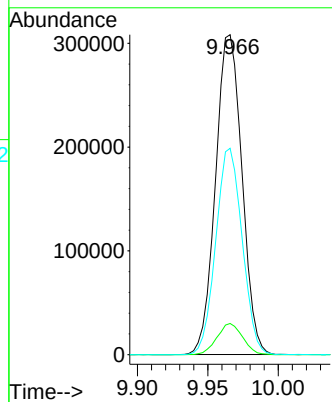
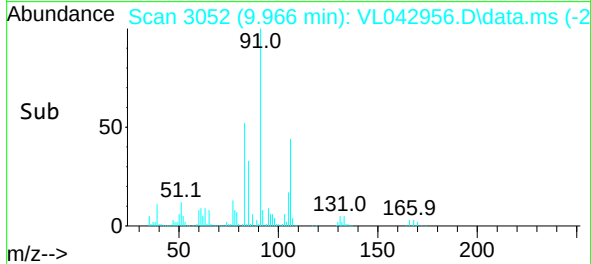
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



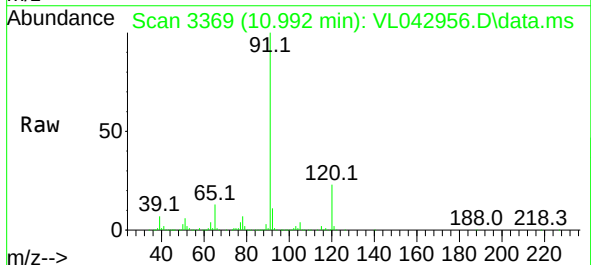
Tgt Ion: 83 Resp: 403038
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.4
85 64.5 32.2 96.6

Manual Integrations
APPROVED

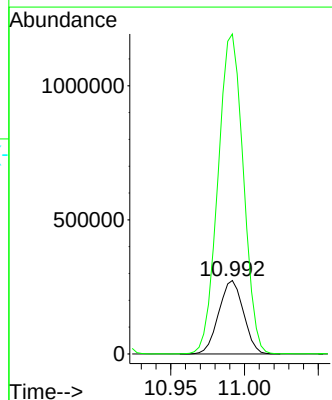
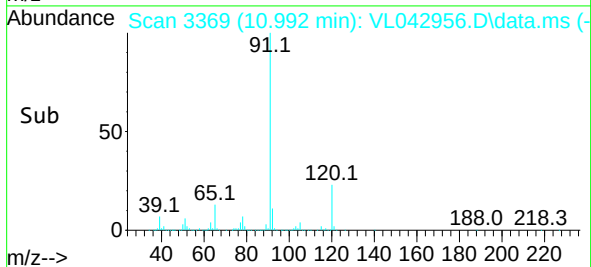
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

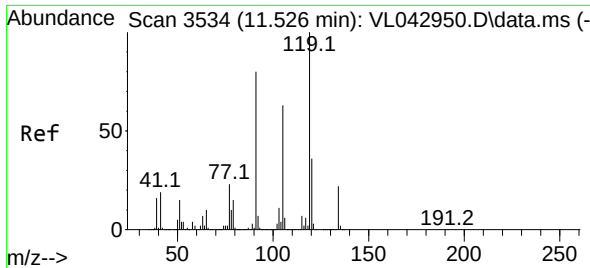


#64
n-propylbenzene
Concen: 13.793 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05



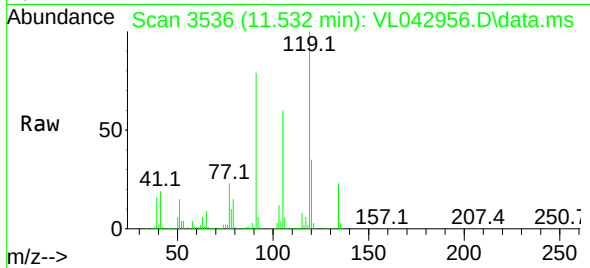
Tgt Ion:120 Resp: 318541
Ion Ratio Lower Upper
120 100
91 448.5 364.9 547.3





#65
tert-Butylbenzene
Concen: 13.146 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

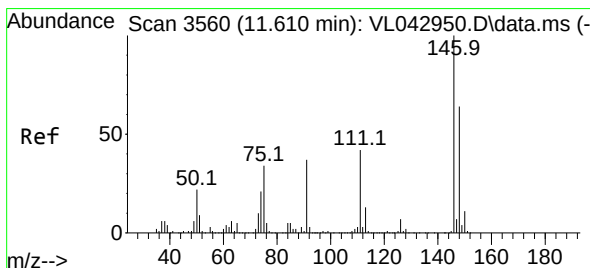
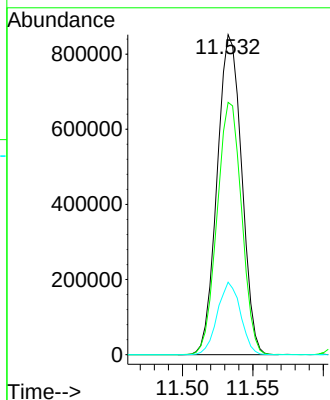
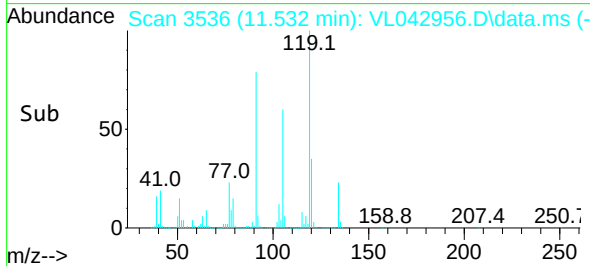
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



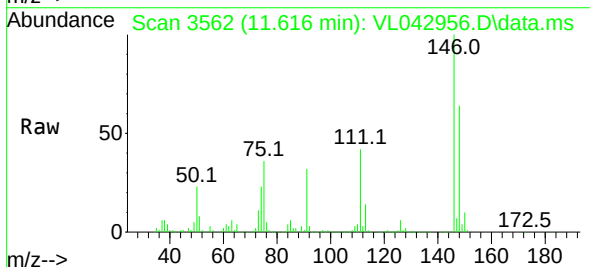
Tgt Ion:119 Resp: 103338
Ion Ratio Lower Upper
119 100
91 78.8 63.1 94.7
134 21.4 17.0 25.6

Manual Integrations
APPROVED

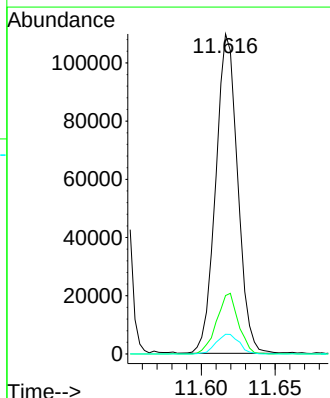
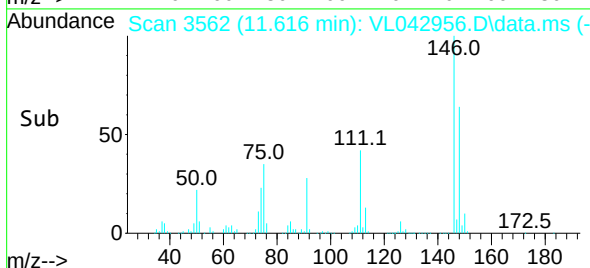
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

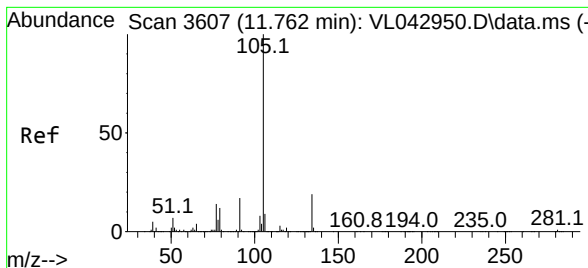


#66
Benzyl Chloride
Concen: 13.767 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05



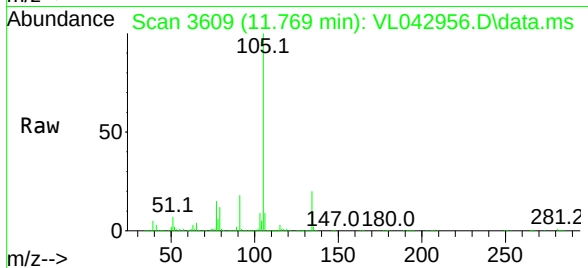
Tgt Ion: 91 Resp: 113549
Ion Ratio Lower Upper
91 100
126 18.8 14.6 21.8
128 6.5 5.0 7.4





#67
 sec-Butylbenzene
 Concen: 13.276 ppbv
 RT: 11.769 min Scan# 30
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

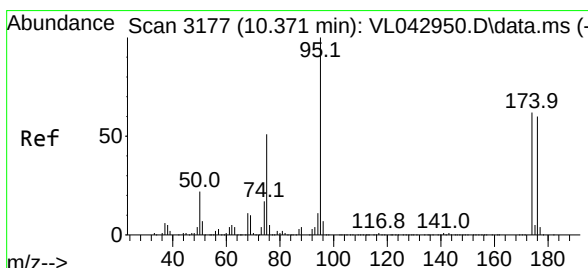
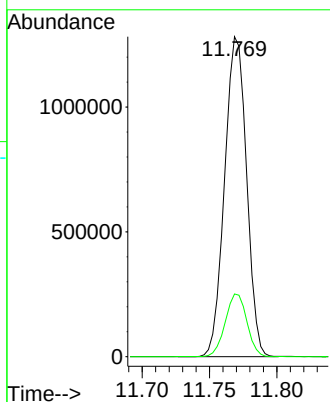
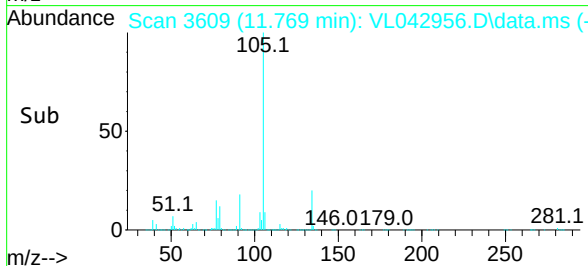
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



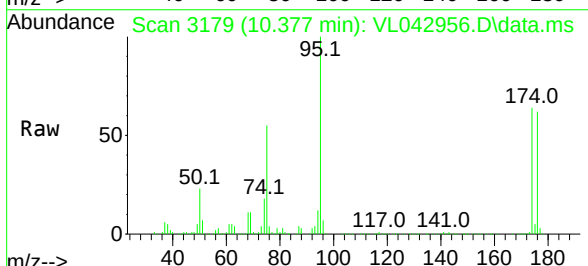
Tgt Ion:105 Resp: 1454158
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.7 23.5

Manual Integrations
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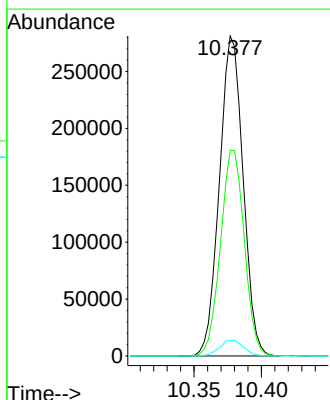
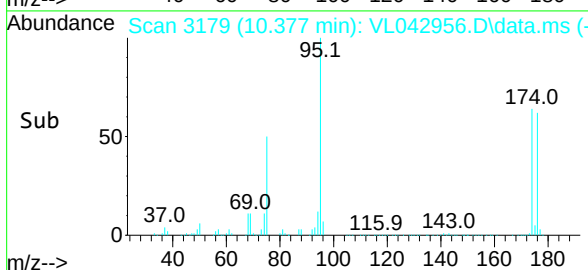
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

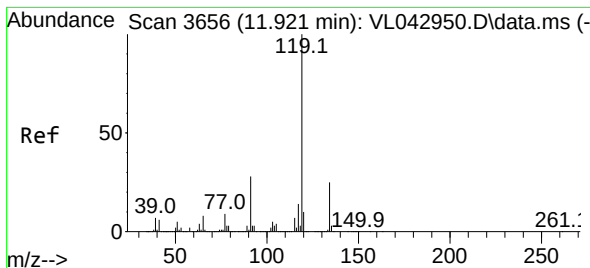


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.049 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05



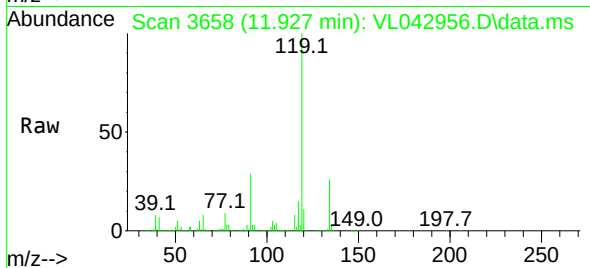
Tgt Ion: 95 Resp: 343752
 Ion Ratio Lower Upper
 95 100
 174 64.8 51.4 77.2
 175 5.0 4.0 6.0





#69
p-Isopropyltoluene
Concen: 13.280 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

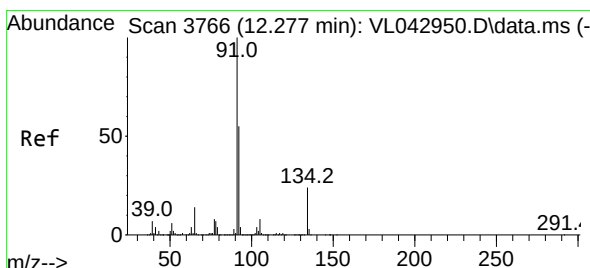
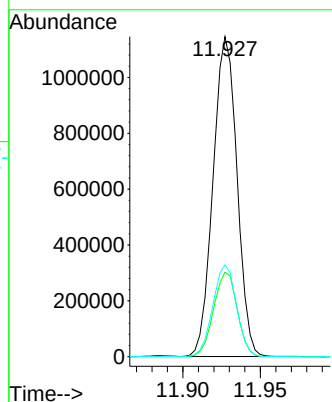
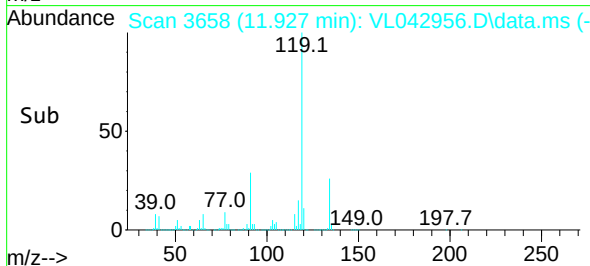
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



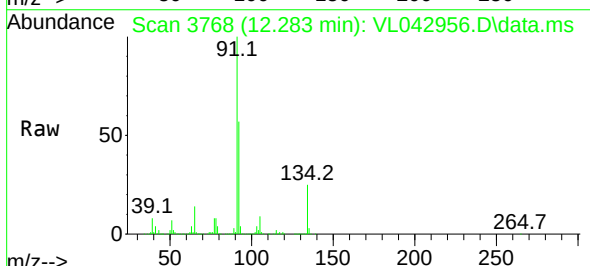
Tgt Ion:119 Resp: 122877
Ion Ratio Lower Upper
119 100
134 26.2 21.0 31.4
91 28.4 22.3 33.5

Manual Integrations
APPROVED

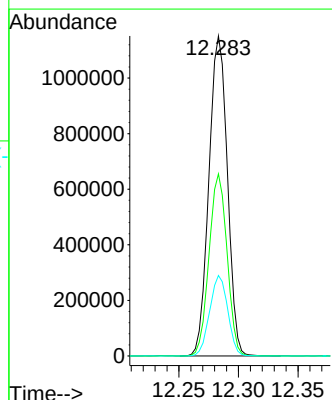
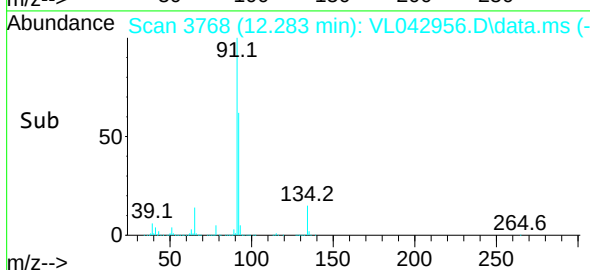
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

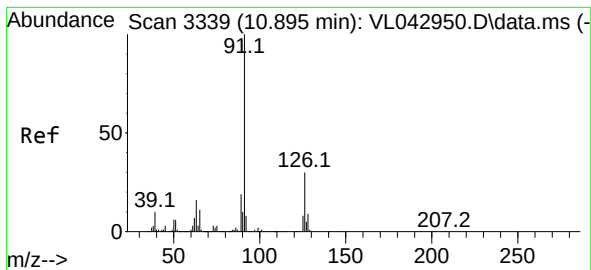


#70
n-Butylbenzene
Concen: 13.716 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05



Tgt Ion: 91 Resp: 1239042
Ion Ratio Lower Upper
91 100
92 55.5 44.0 66.0
134 24.6 19.4 29.2





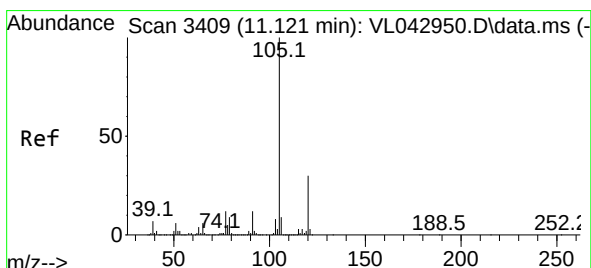
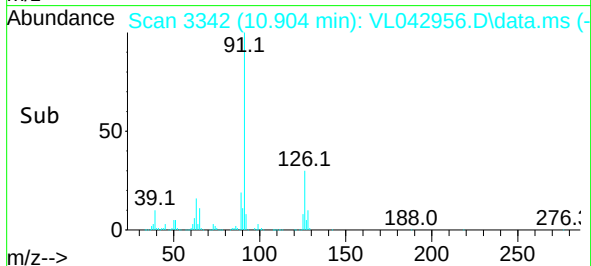
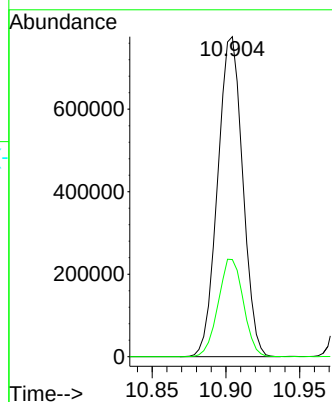
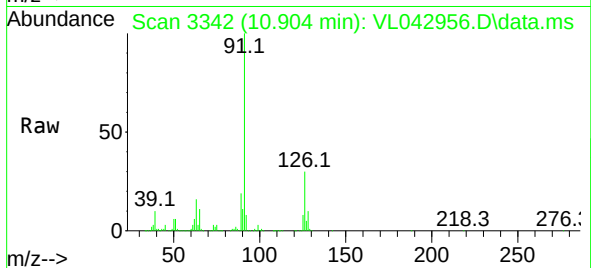
#71
2-Chlorotoluene
Concen: 13.733 ppbv
RT: 10.904 min Scan# 3111
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 916456
Ion Ratio Lower Upper
91 100
126 30.6 12.3 49.3

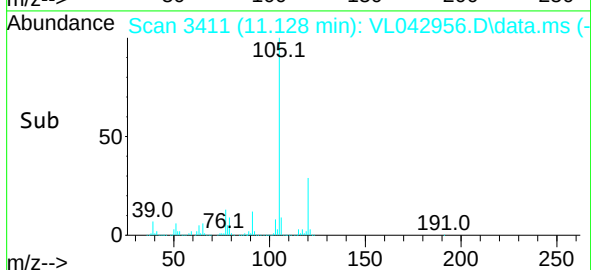
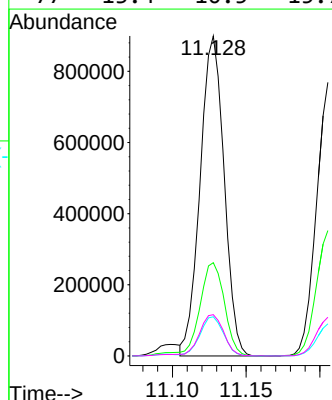
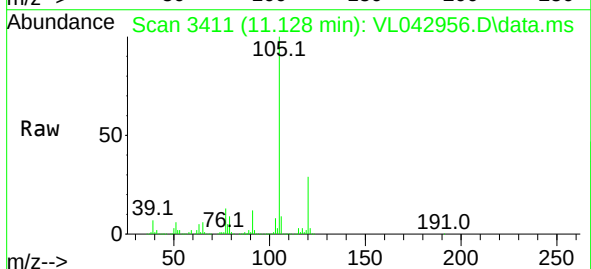
Manual Integrations
APPROVED

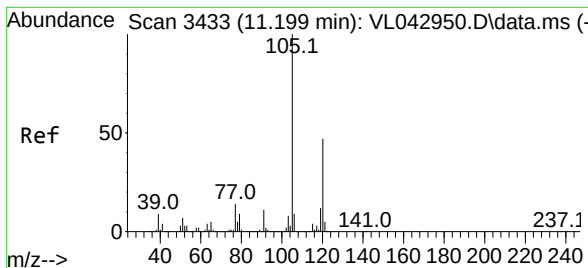
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#72
4-Ethyltoluene
Concen: 13.662 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion:105 Resp: 1014567
Ion Ratio Lower Upper
105 100
120 30.4 24.2 36.2
91 12.7 10.0 15.0
77 13.4 10.5 15.7





#73

1,3,5-Trimethylbenzene

Concen: 14.046 ppbv

RT: 11.205 min Scan# 3433

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:105 Resp: 845958

Ion Ratio Lower Upper

105 100

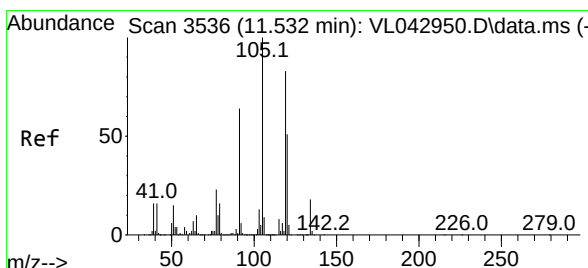
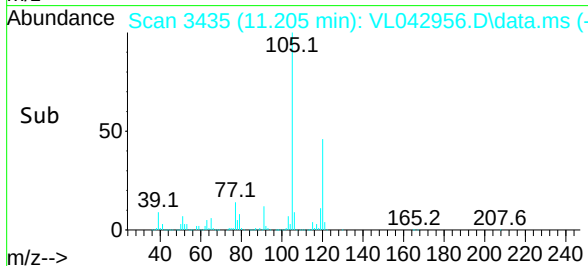
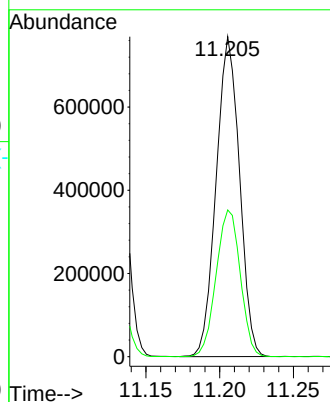
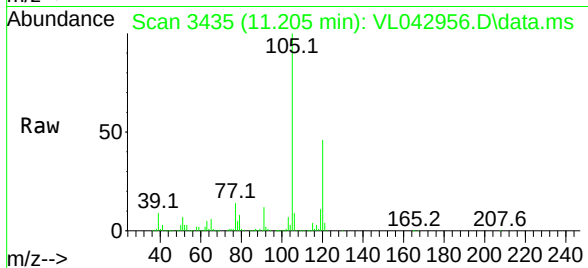
120 45.8 38.0 57.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#74

1,2,4-Trimethylbenzene

Concen: 13.372 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Tgt Ion:105 Resp: 889339

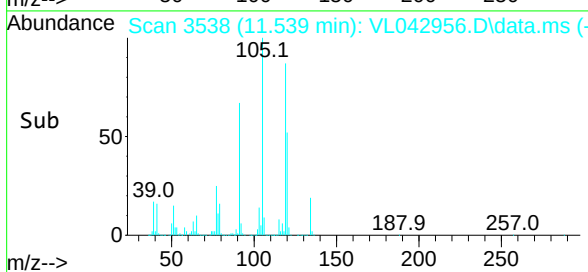
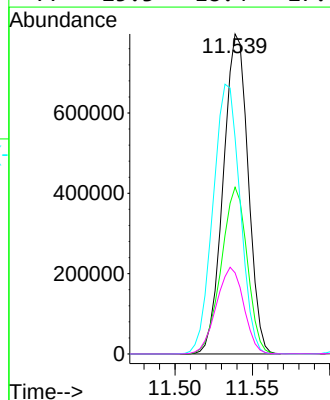
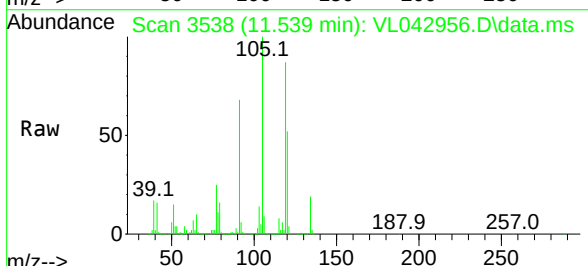
Ion Ratio Lower Upper

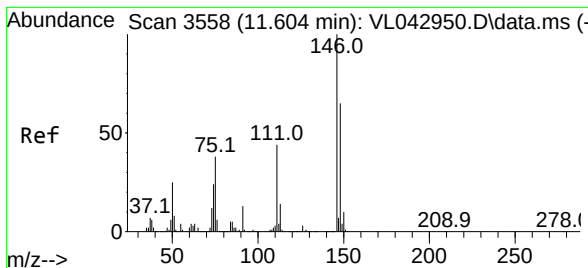
105 100

120 52.1 40.9 61.3

91 67.4 51.2 76.8

77 25.3 18.4 27.6





#75

1,3-Dichlorobenzene

Concen: 13.785 ppbv

RT: 11.610 min Scan# 3558

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

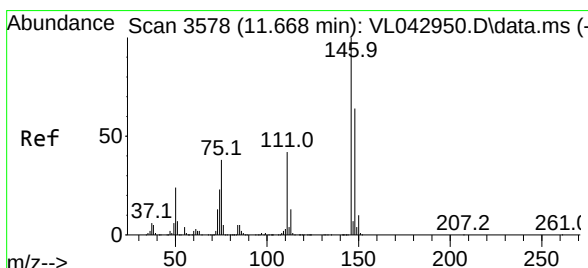
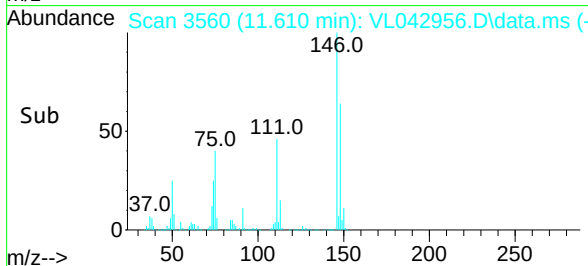
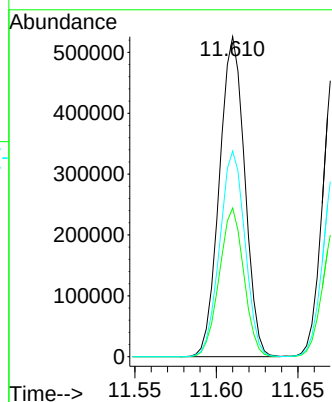
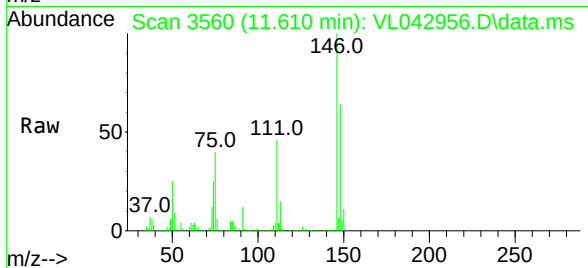
VSTDIC015

Tgt Ion:	146	Resp:	56859
Ion Ratio	Lower	Upper	
146	100		
111	44.9	22.3	66.9
148	63.9	31.9	95.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#76

1,4-Dichlorobenzene

Concen: 13.916 ppbv

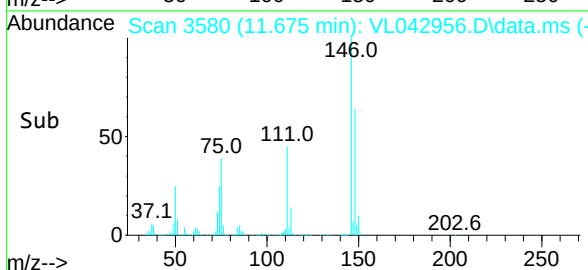
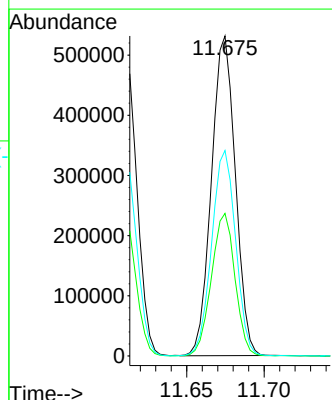
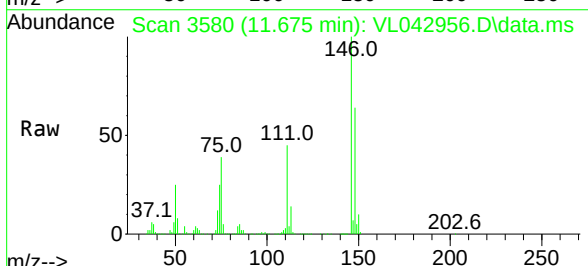
RT: 11.675 min Scan# 3580

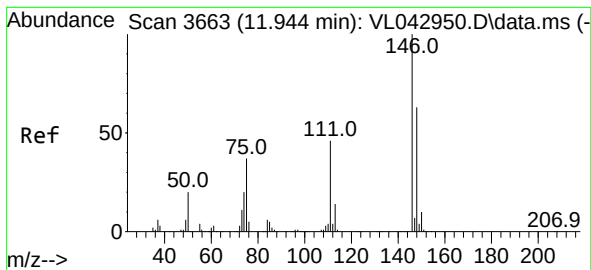
Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Tgt Ion:	146	Resp:	570104
Ion Ratio	Lower	Upper	
146	100		
111	44.1	21.5	64.5
148	64.6	31.9	95.5





#77

1,2-Dichlorobenzene

Concen: 13.665 ppbv

RT: 11.950 min Scan# 3665

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

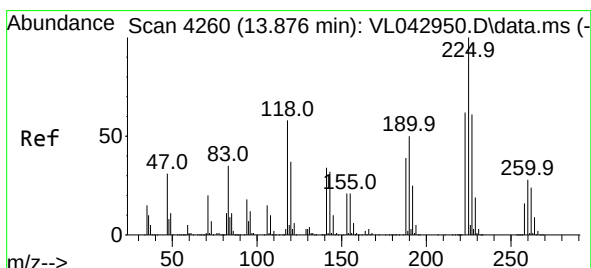
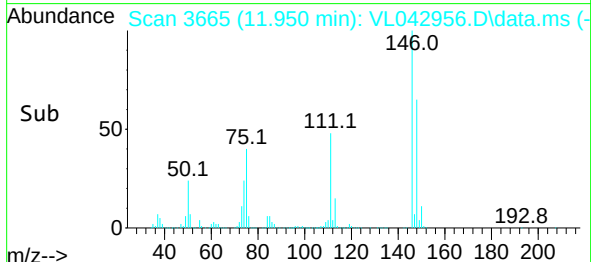
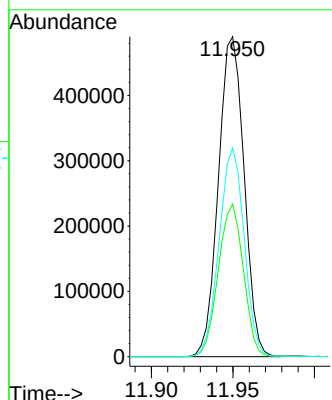
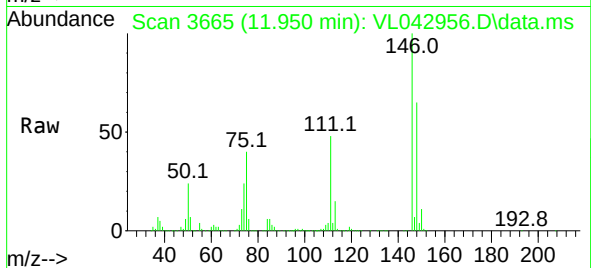
Tgt Ion:146 Resp: 536280

Ion	Ratio	Lower	Upper
146	100		
111	46.7	23.1	69.3
148	63.8	32.0	96.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#78

Hexachloro-1,3-Butadiene

Concen: 12.296 ppbv

RT: 13.882 min Scan# 4262

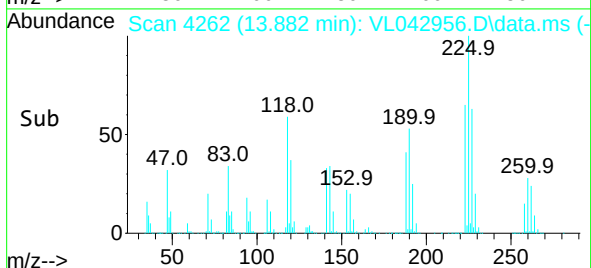
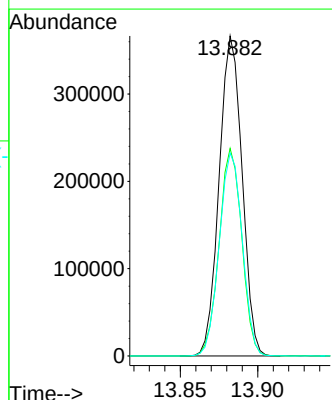
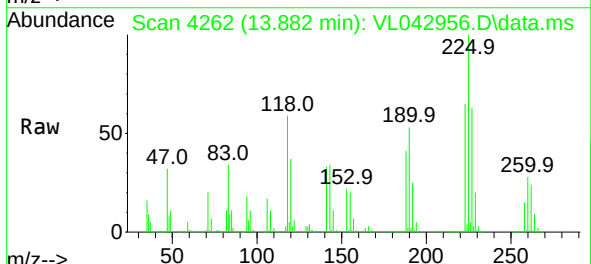
Delta R.T. 0.006 min

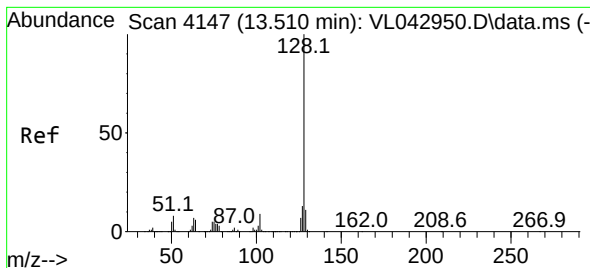
Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Tgt Ion:225 Resp: 377435

Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.1	75.1
227	63.7	50.4	75.6





#79

Naphthalene

Concen: 15.645 ppbv

RT: 13.513 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:128 Resp: 92012

Ion Ratio Lower Upper

128 100

127 13.2 10.6 15.8

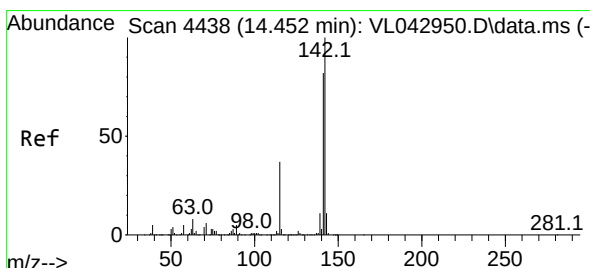
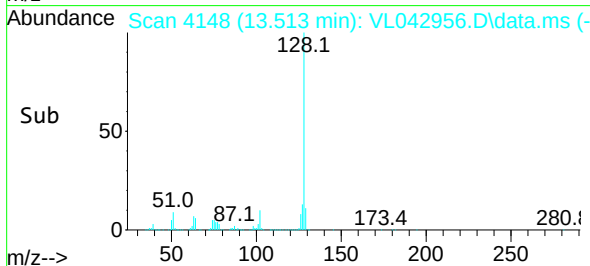
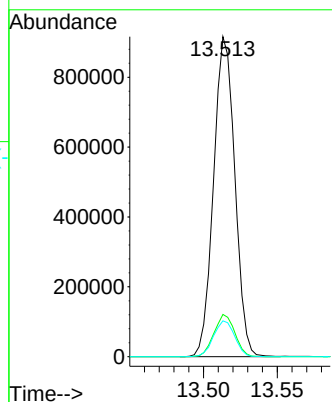
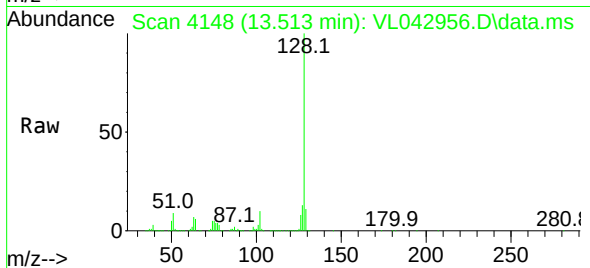
129 11.2 9.0 13.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#80

Naphthalene,2-methyl-

Concen: 15.290 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

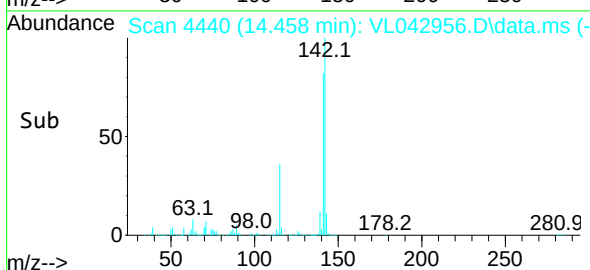
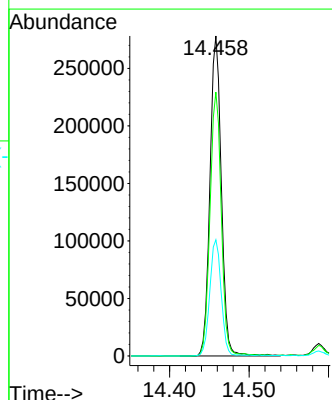
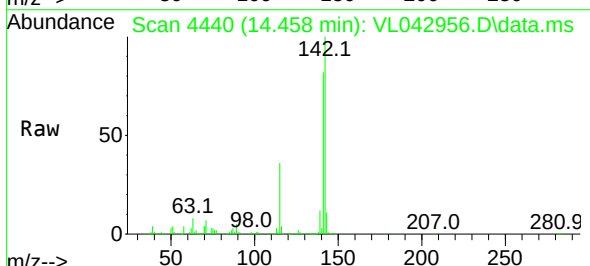
Tgt Ion:142 Resp: 277792

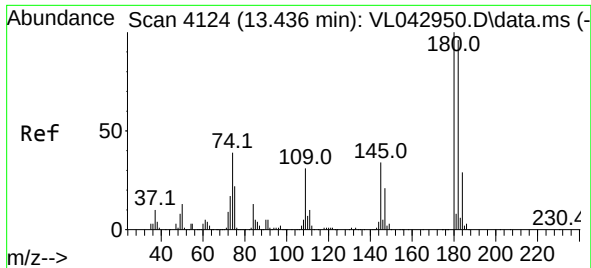
Ion Ratio Lower Upper

142 100

141 82.2 65.1 97.7

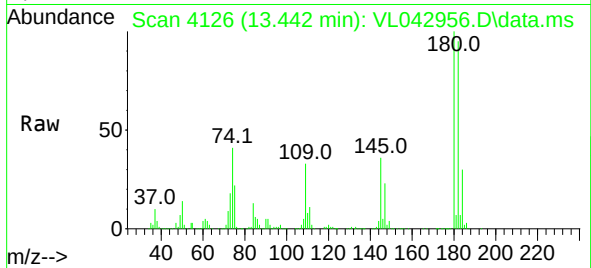
115 37.0 28.9 43.3





#81
 1,2,4-Trichlorobenzene
 Concen: 15.066 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

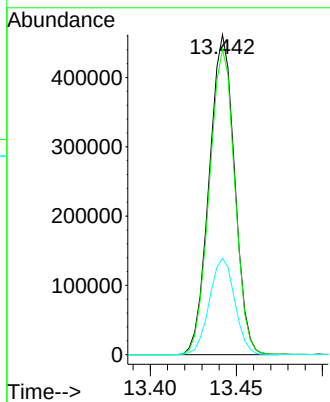
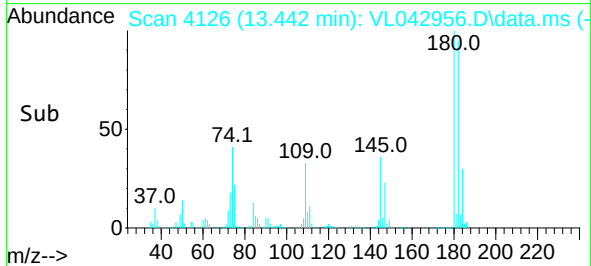
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 47376
 Ion Ratio Lower Upper
 180 100
 182 95.5 75.7 113.5
 184 30.2 23.9 35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:49:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	159826	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	493072	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	450930	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 338071 10.043 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	197861	9.204	ppbv	98
3) Chlorodifluoromethane	1.476	51	246838	9.213	ppbv	99
4) Chloromethane	1.535	50	85932	8.831	ppbv	100
5) Vinyl Chloride	1.580	62	74819	8.506	ppbv	98
6) Bromomethane	1.667	94	26463	8.529	ppbv	91
7) Chloroethane	1.706	64	30377	8.894	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	164255	8.951	ppbv	98
9) Propene	1.483	41	105822	9.079	ppbv	95
10) Heptane	4.982	43	284333	9.141	ppbv	99
11) Trichlorofluoromethane	1.878	101	189800	9.157	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	151398	9.020	ppbv	99
13) Ethanol	1.722	45	6606	5.842	ppbv	90
14) Bromoethene	1.781	108	55748	8.785	ppbv	98
15) Acetone	1.836	43	157306	7.557	ppbv	98
16) 1,3-Butadiene	1.609	39	80854	8.234	ppbv	98
17) tert-Butyl alcohol	2.040	59	206466	9.043	ppbv	100
18) 1,1-Dichloroethene	2.036	96	69181	8.904	ppbv	94
19) Isopropyl Alcohol	1.884	45	108171	8.644	ppbv	100
20) Methylene Chloride	2.062	84	61743	9.945	ppbv	98
21) Allyl Chloride	2.098	41	132878	9.166	ppbv	100
22) trans-1,2-Dichloroethene	2.341	96	78085	8.845	ppbv	98
23) Vinyl Acetate	2.464	43	280339	9.427	ppbv	99
24) 1,1-Dichloroethane	2.409	63	155861	9.003	ppbv	100
25) Ethyl Acetate	2.833	43	486993	9.256	ppbv	99
26) Hexane	2.826	57	216458	9.026	ppbv	99
27) Carbon Disulfide	2.150	76	196191	9.121	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	121564	9.752	ppbv	95
29) Chloroform	2.849	83	300507	9.583	ppbv	100
30) Cyclohexane	3.855	84	186186	9.286	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	213362	9.497	ppbv	99
32) 1,1,1-Trichloroethane	3.370	97	307237	9.071	ppbv	100
34) 2-Butanone	2.558	43	313801	9.081	ppbv	100
35) Carbon Tetrachloride	3.762	117	304293	9.479	ppbv	97
36) Benzene	3.655	78	435981	9.416	ppbv	98
37) 1,2-Dichloroethane	3.218	62	233305	9.581	ppbv	99
38) Trichloroethene	4.548	130	205431	8.927	ppbv	95
39) 1,2-Dichloropropane	4.312	63	160275	9.482	ppbv	95
40) 1,4-Dioxane	4.577	88	69659	8.863	ppbv #	95
41) Tetrahydrofuran	3.053	42	184258	9.277	ppbv	100
42) Bromodichloromethane	4.490	83	329680	9.721	ppbv	99
43) Methyl Methacrylate	4.878	69	172867	9.125	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	738876	9.239	ppbv	99
45) t-1,3-Dichloropropene	6.416	75	188332	9.321	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:49:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

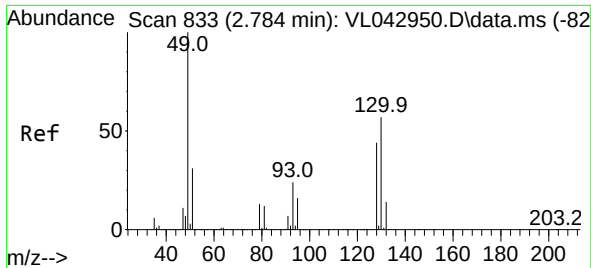
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

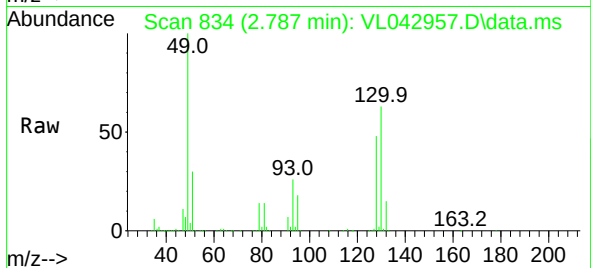
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	244367	9.490	ppbv	99
47) 1,1,2-Trichloroethane	6.577	97	165721	9.279	ppbv	97
48) Dibromochloromethane	7.387	129	278090	9.732	ppbv	99
49) Bromoform	9.484	173	238337	9.589	ppbv	99
50) 4-Methyl-2-Pentanone	5.746	43	435845	9.411	ppbv	99
51) 2-Hexanone	7.435	43	352962	9.561	ppbv	100
52) Tetrachloroethene	8.225	164	155469	8.678	ppbv	98
53) Toluene	6.933	91	509968	9.306	ppbv	99
54) 1,2-Dibromoethane	7.652	107	237604	9.452	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.924	131	205811	9.536	ppbv	99
57) Chlorobenzene	8.924	112	379110	9.209	ppbv	99
58) Ethyl Benzene	9.354	91	698086	9.428	ppbv	100
59) m/p-Xylene	9.552	91	1092496m	18.715	ppbv	
60) o-Xylene	9.966	91	538861	9.236	ppbv	99
61) Styrene	9.872	104	264257	9.575	ppbv	99
62) Isopropylbenzene	10.539	105	802723	9.230	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	272416	8.883	ppbv	100
64) n-propylbenzene	10.989	120	214374	9.433	ppbv	99
65) tert-Butylbenzene	11.533	119	711319	9.196	ppbv	99
66) Benzyl Chloride	11.617	91	71896	8.858	ppbv	99
67) sec-Butylbenzene	11.769	105	995407	9.235	ppbv	99
69) p-Isopropyltoluene	11.928	119	848196	9.316	ppbv	99
70) n-Butylbenzene	12.280	91	834882	9.392	ppbv	100
71) 2-Chlorotoluene	10.902	91	611697	9.315	ppbv	100
72) 4-Ethyltoluene	11.125	105	686229	9.391	ppbv	100
73) 1,3,5-Trimethylbenzene	11.203	105	567874	9.582	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	607159	9.277	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	380822	9.382	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	380109	9.429	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	359995	9.322	ppbv	100
78) Hexachloro-1,3-Butadiene	13.883	225	249142	8.248	ppbv	100
79) Naphthalene	13.514	128	590759	10.208	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	173023	9.678	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	304647	9.845	ppbv	98

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

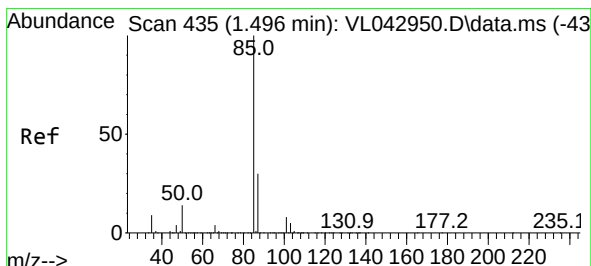
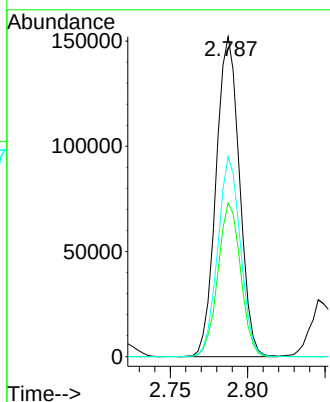
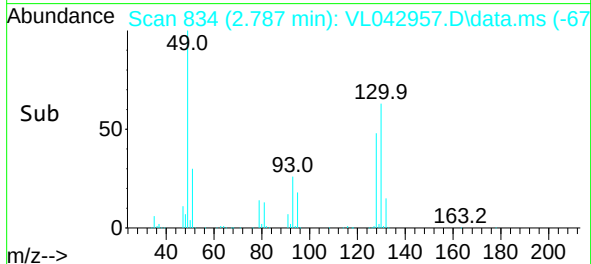
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225



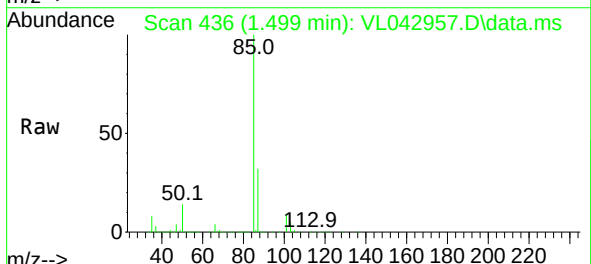
Tgt Ion: 49 Resp: 159820
Ion Ratio Lower Upper
49 100
128 46.7 22.9 68.8
130 60.6 29.1 87.3

Manual Integrations
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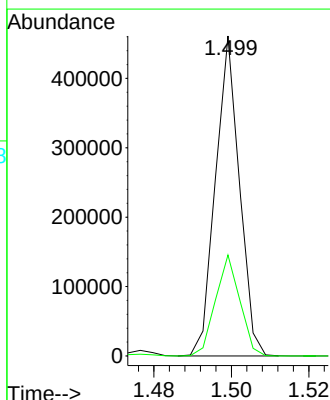
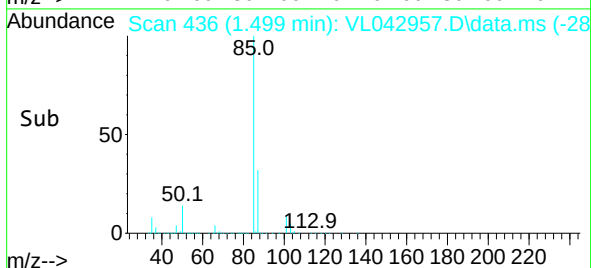
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

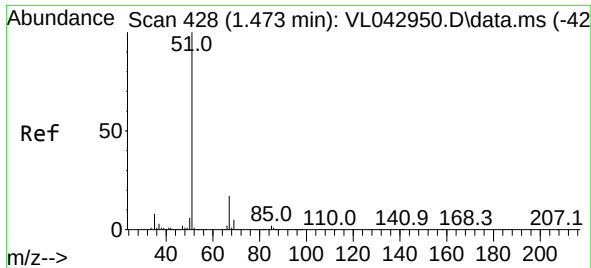


#2
Dichlorodifluoromethane
Concen: 9.204 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15



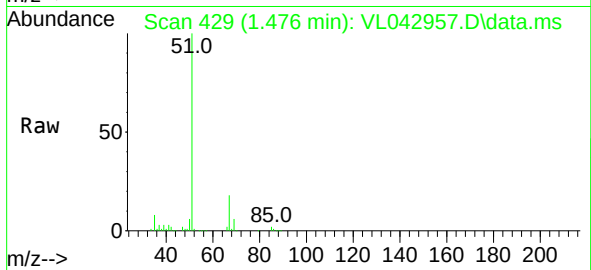
Tgt Ion: 85 Resp: 197861
Ion Ratio Lower Upper
85 100
87 31.6 24.3 36.5





#3
Chlorodifluoromethane
Concen: 9.213 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

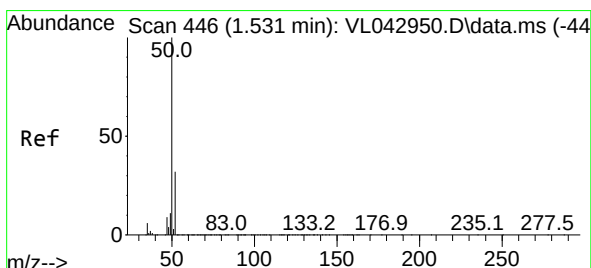
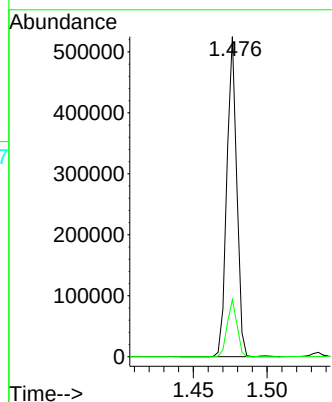
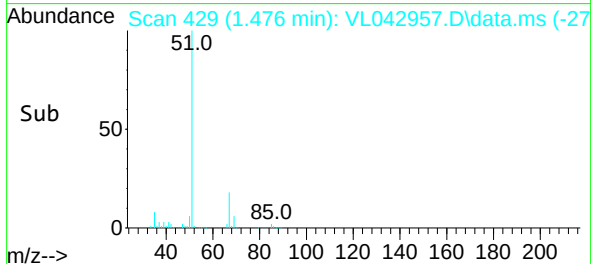
Instrument : MSVOA_L
ClientSampleId : ICVVL092225



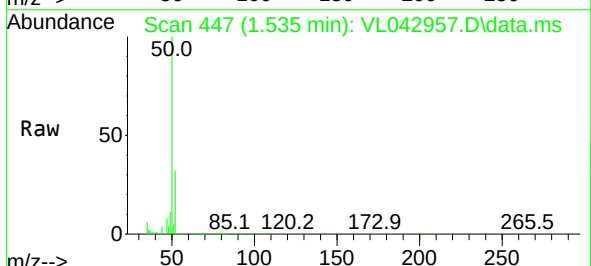
Tgt Ion: 51 Resp: 246838
Ion Ratio Lower Upper
51 100
67 17.6 13.8 20.8

Manual Integrations
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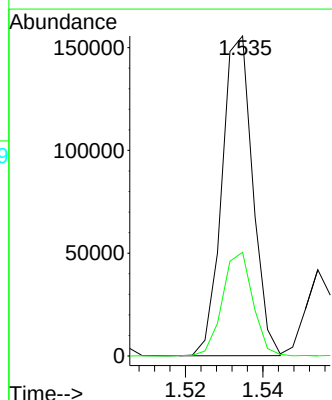
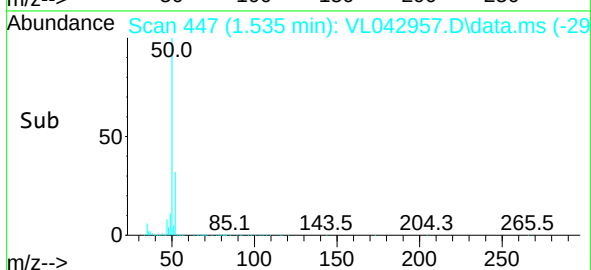
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

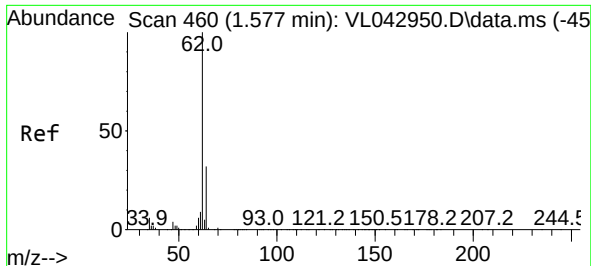


#4
Chloromethane
Concen: 8.831 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15



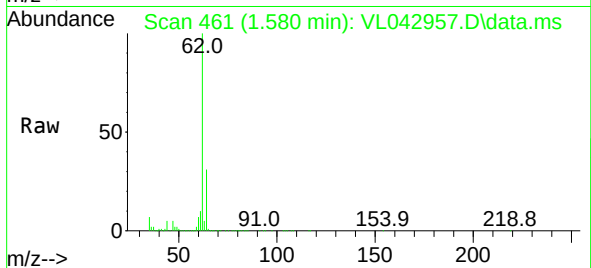
Tgt Ion: 50 Resp: 85932
Ion Ratio Lower Upper
50 100
52 32.4 25.9 38.9





#5
 Vinyl Chloride
 Concen: 8.506 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

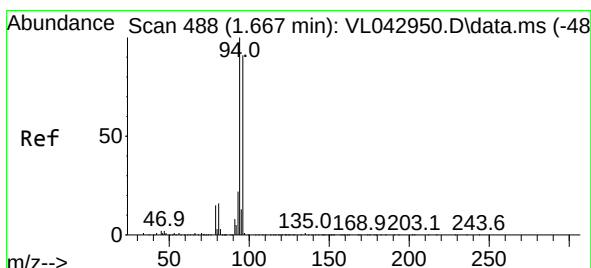
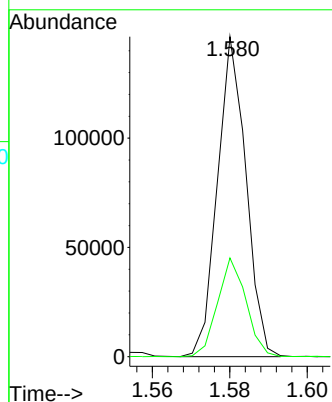
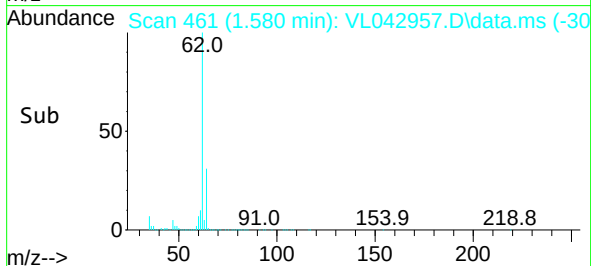
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225



Tgt Ion: 62 Resp: 74819
 Ion Ratio Lower Upper
 62 100
 64 30.9 25.4 38.2

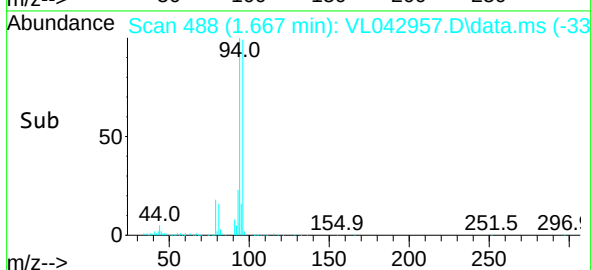
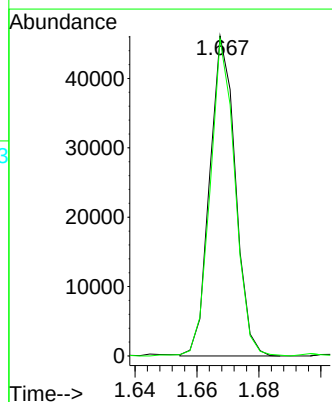
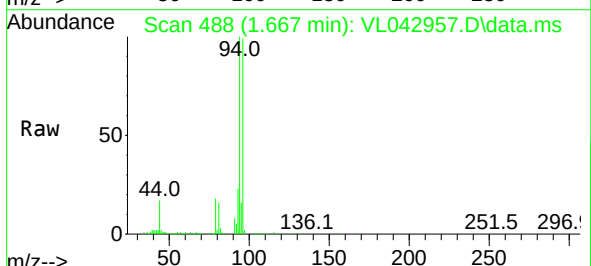
Manual Integrations
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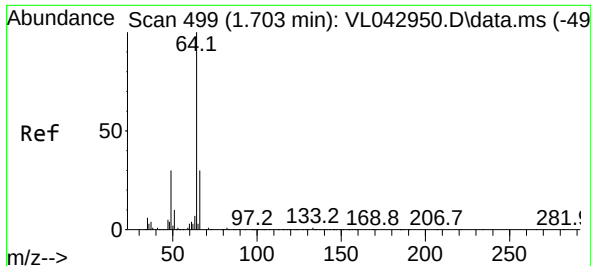
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#6
 Bromomethane
 Concen: 8.529 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

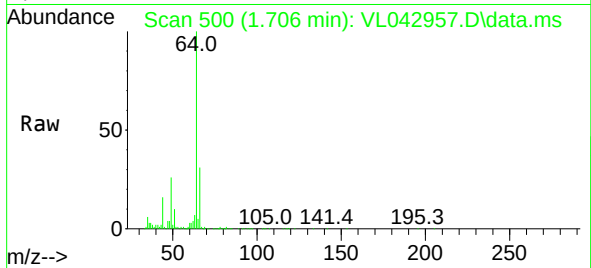
Tgt Ion: 94 Resp: 26463
 Ion Ratio Lower Upper
 94 100
 96 98.8 72.6 108.8





#7
Chloroethane
Concen: 8.894 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

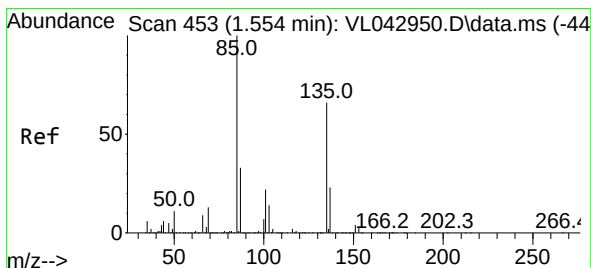
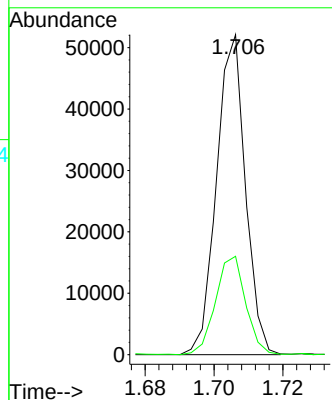
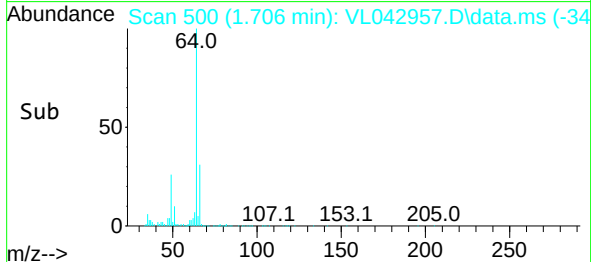
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225



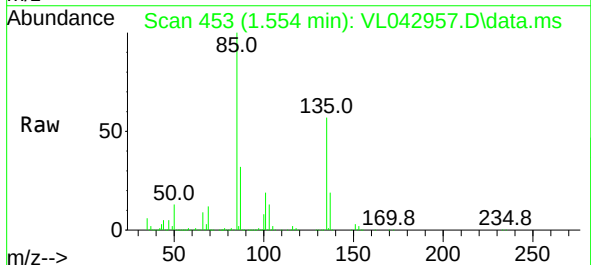
Tgt Ion: 64 Resp: 3037
Ion Ratio Lower Upper
64 100
66 30.7 24.6 36.8

Manual Integrations
APPROVED

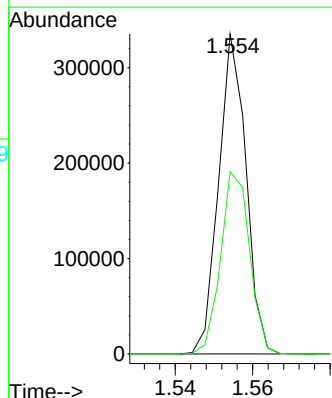
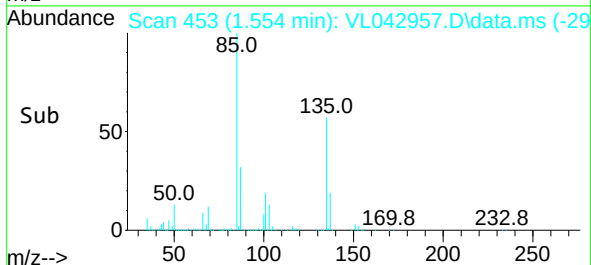
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

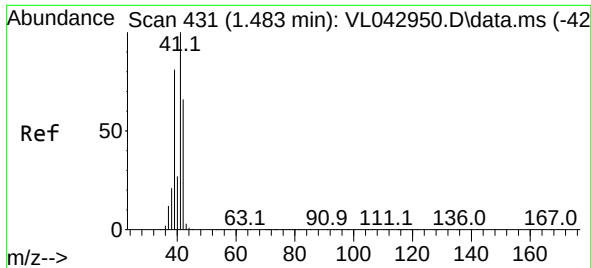


#8
Dichlorotetrafluoroethane
Concen: 8.951 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15



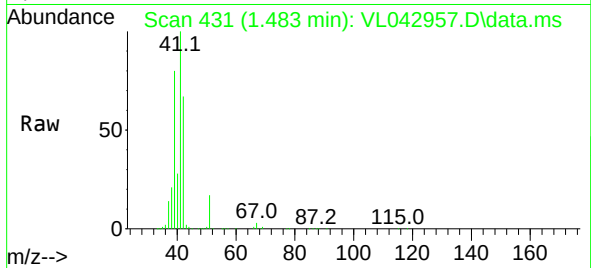
Tgt Ion: 85 Resp: 164255
Ion Ratio Lower Upper
85 100
135 60.7 49.7 74.5





#9
 Propene
 Concen: 9.079 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

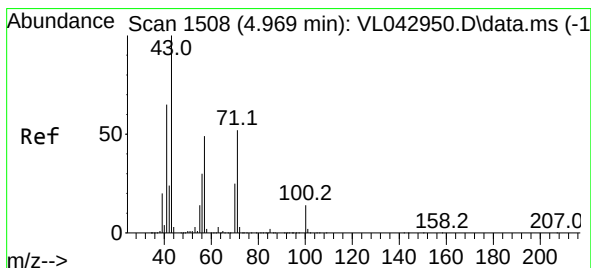
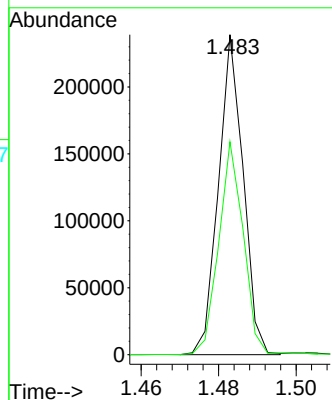
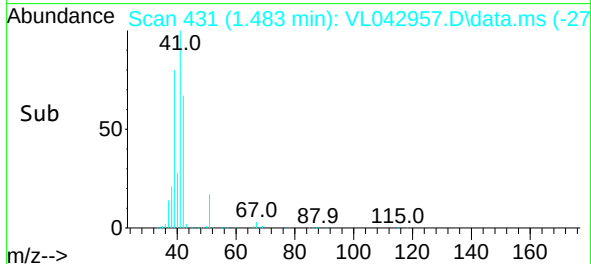
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225



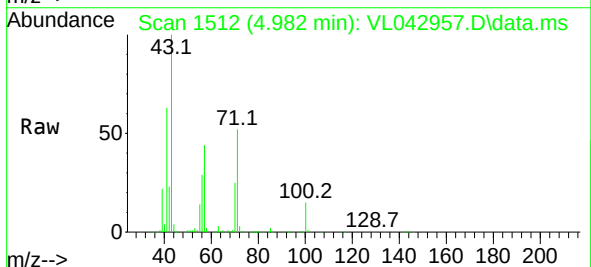
Tgt Ion: 41 Resp: 10582
 Ion Ratio Lower Upper
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 42 67.4 57.4 86.2

Manual Integrations
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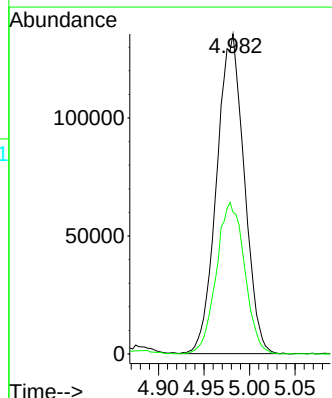
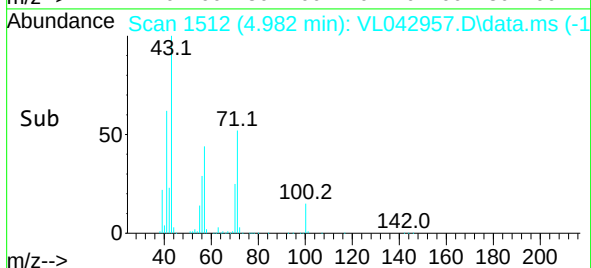
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

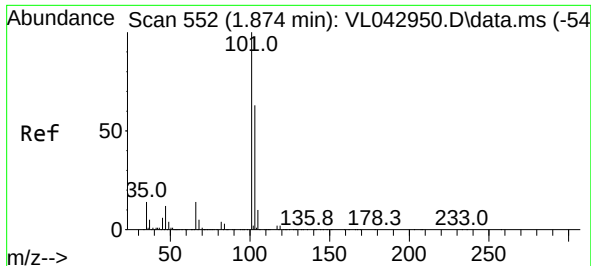


#10
 Heptane
 Concen: 9.141 ppbv
 RT: 4.982 min Scan# 1512
 Delta R.T. 0.013 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15



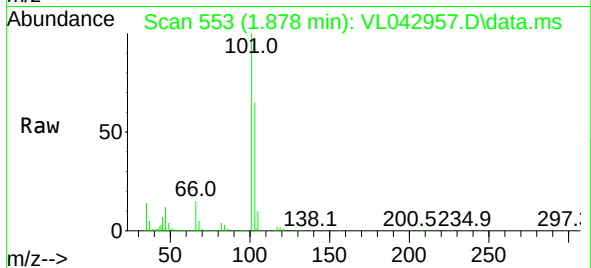
Tgt Ion: 43 Resp: 284333
 Ion Ratio Lower Upper
 43 100
 57 48.7 38.6 57.8





#11
Trichlorofluoromethane
Concen: 9.157 ppbv
RT: 1.878 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

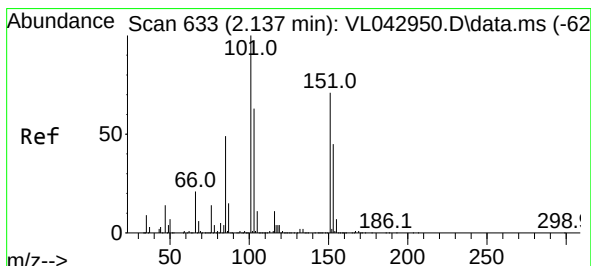
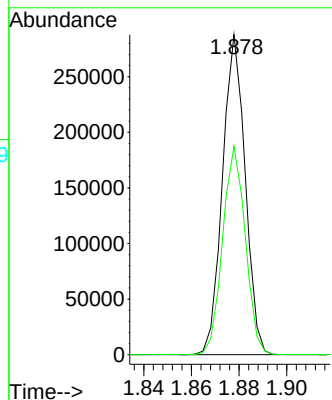
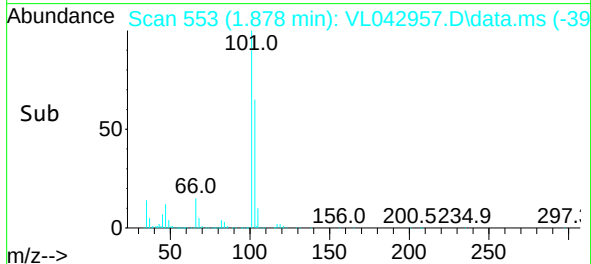
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MSVOA_L
ClientSampleId :
ICVVL092225



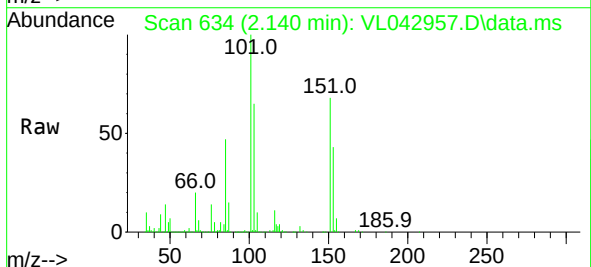
Tgt Ion:101 Resp: 189800
Ion Ratio Lower Upper
101 100
103 65.1 50.1 75.1

Manual Integrations
APPROVED

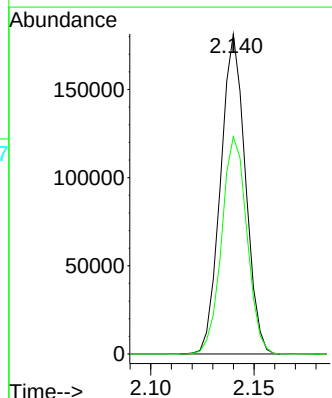
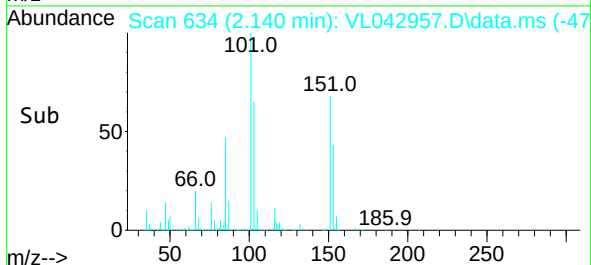
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

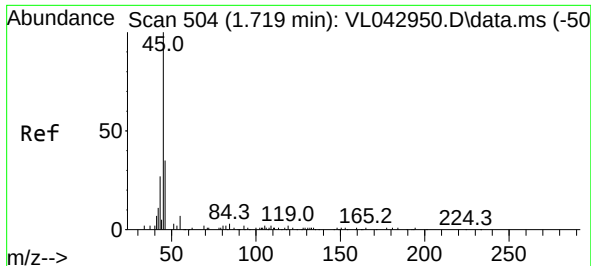


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.020 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15



Tgt Ion:101 Resp: 151398
Ion Ratio Lower Upper
101 100
151 69.1 55.7 83.5





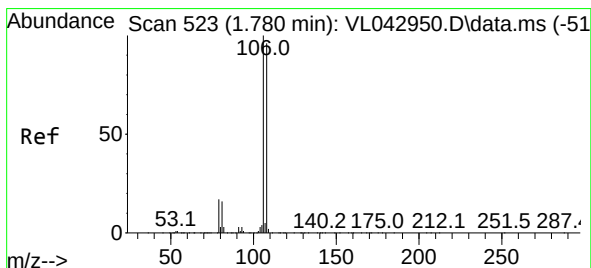
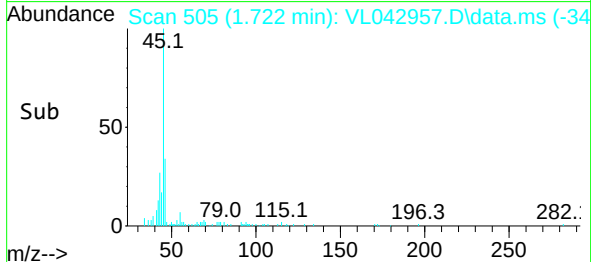
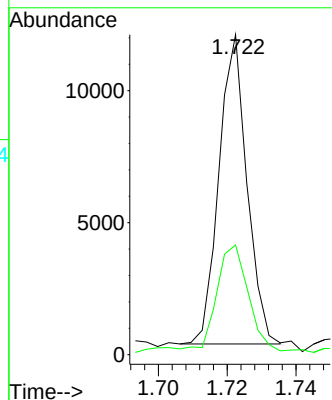
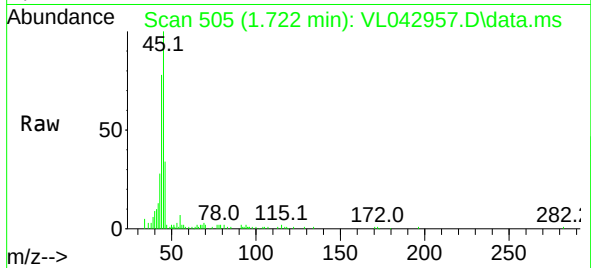
#13
Ethanol
Concen: 5.842 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Tgt Ion: 45 Resp: 6600
Ion Ratio Lower Upper
45 100
46 46.7 16.2 64.6

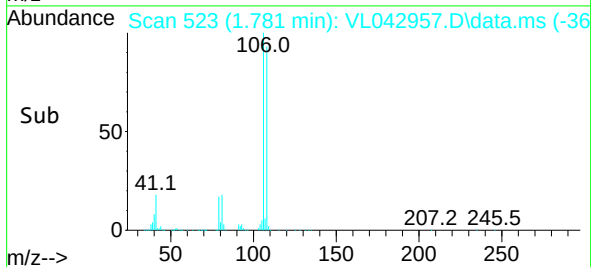
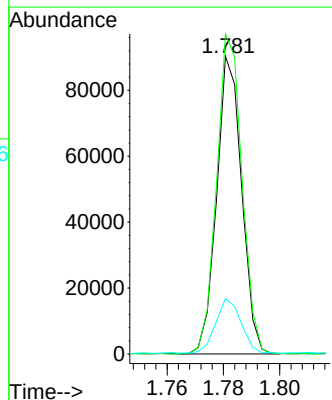
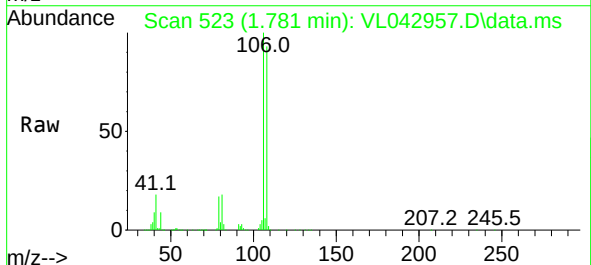
Manual Integrations
APPROVED

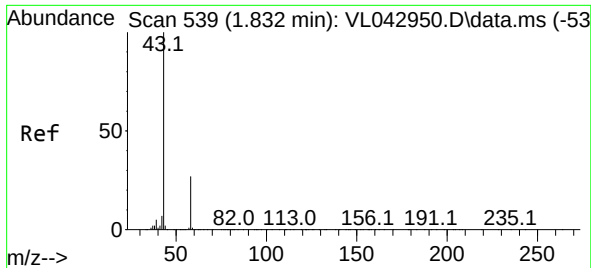
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#14
Bromoethene
Concen: 8.785 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

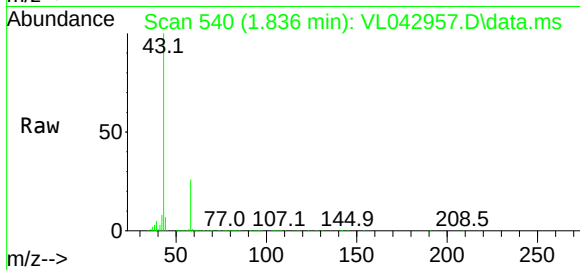
Tgt Ion:108 Resp: 55748
Ion Ratio Lower Upper
108 100
106 109.3 86.0 129.0
79 19.7 14.2 21.2





#15
Acetone
Concen: 7.557 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

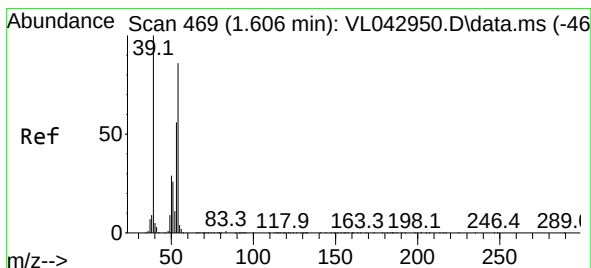
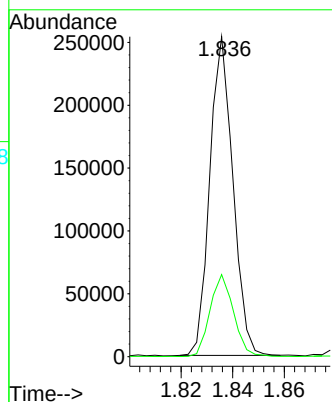
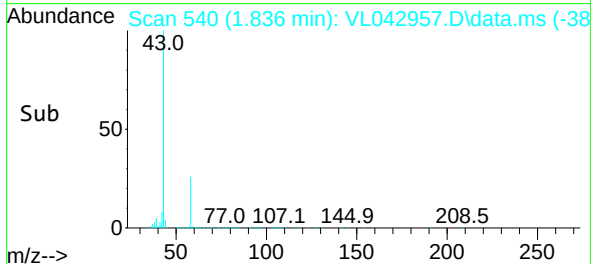
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225



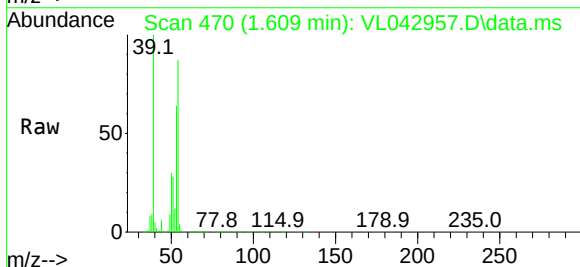
Tgt Ion: 43 Resp: 157300
Ion Ratio Lower Upper
43 100
58 26.7 22.3 33.5

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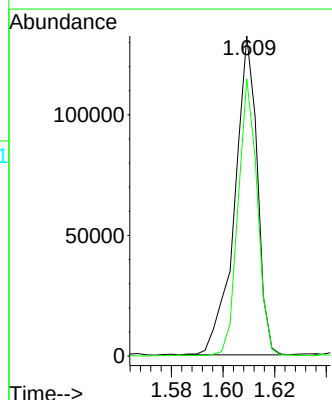
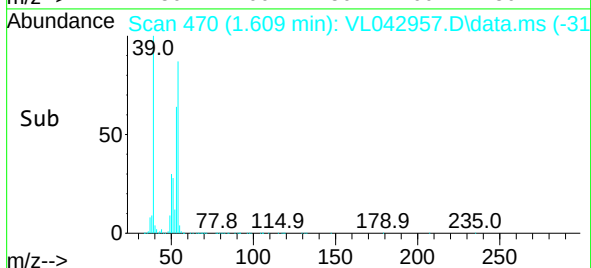
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

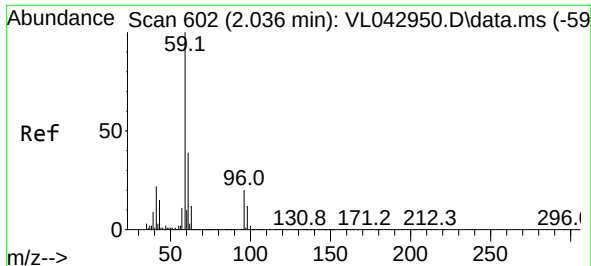


#16
1,3-Butadiene
Concen: 8.234 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15



Tgt Ion: 39 Resp: 80854
Ion Ratio Lower Upper
39 100
54 74.7 60.8 91.2





#17

tert-Butyl alcohol

Concen: 9.043 ppbv

RT: 2.040 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225

Tgt Ion: 59 Resp: 206460

Ion Ratio Lower Upper

59 100

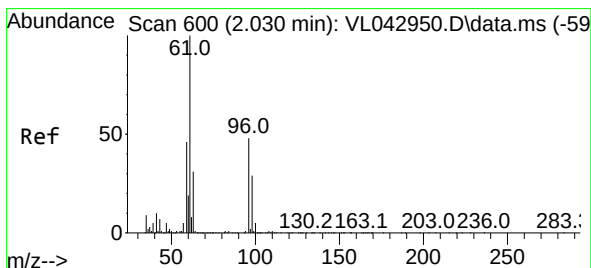
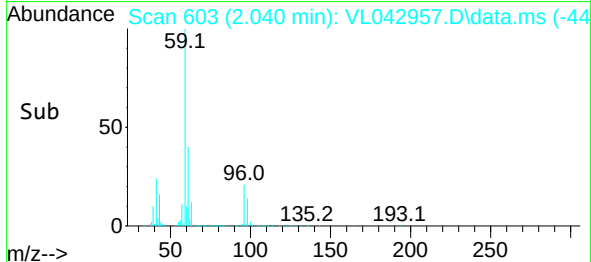
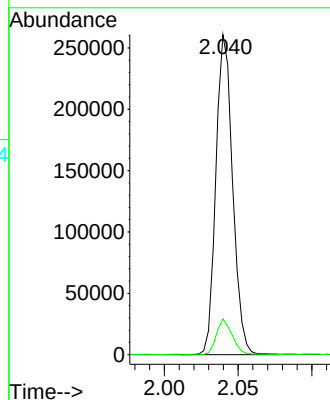
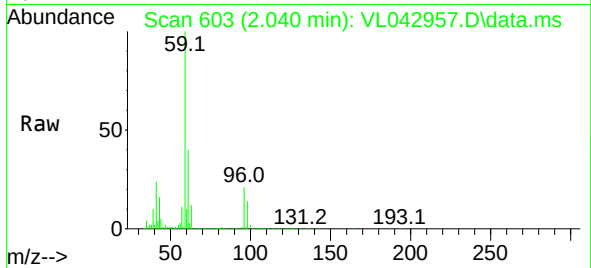
57 10.6 8.6 12.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#18

1,1-Dichloroethene

Concen: 8.904 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.007 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

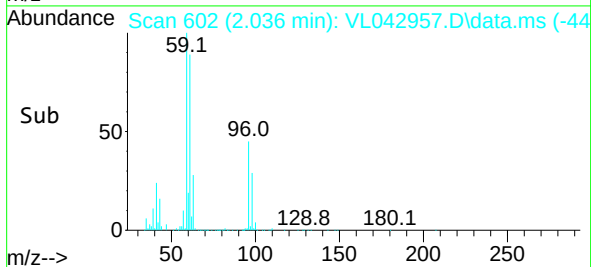
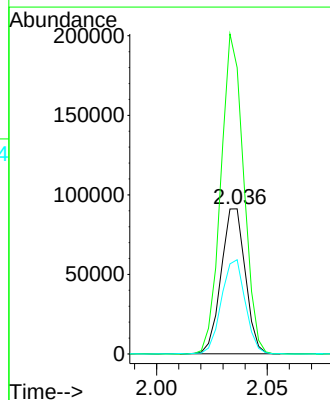
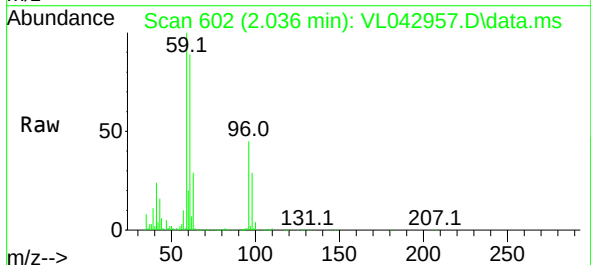
Tgt Ion: 96 Resp: 69181

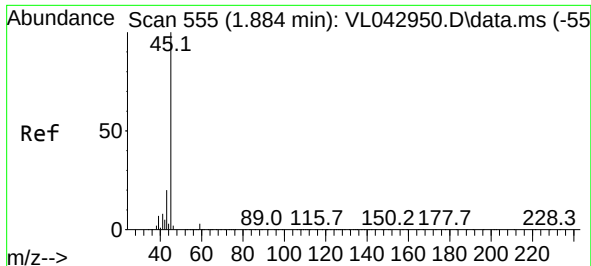
Ion Ratio Lower Upper

96 100

61 197.4 166.2 249.4

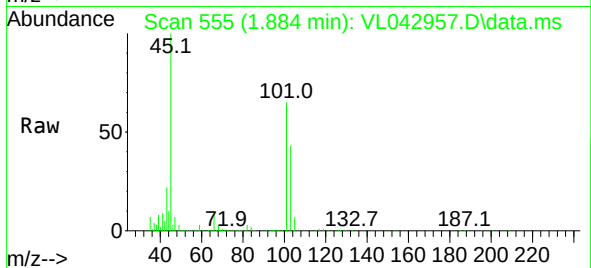
98 64.8 48.6 73.0





#19
Isopropyl Alcohol
Concen: 8.644 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

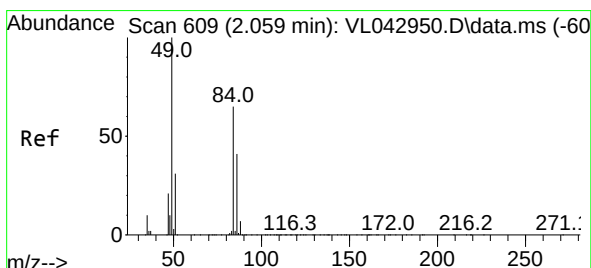
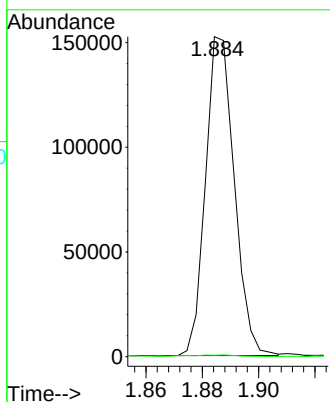
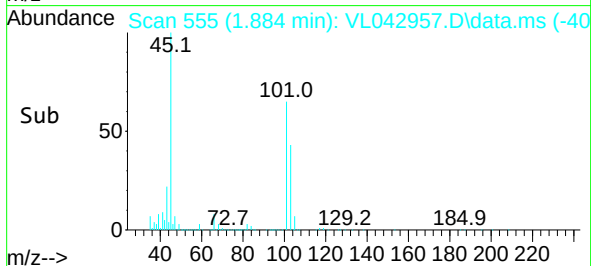
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225



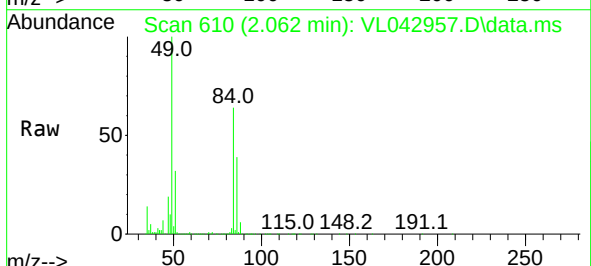
Tgt Ion: 45 Resp: 10817
Ion Ratio Lower Upper
45 100
58 38.8 31.0 46.6

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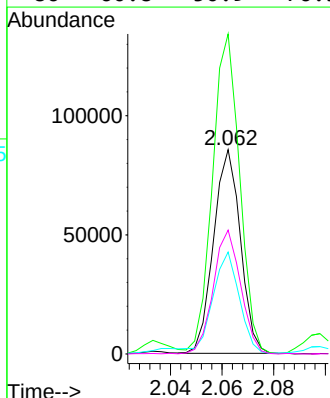
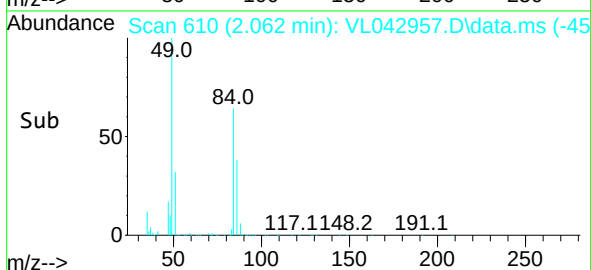
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

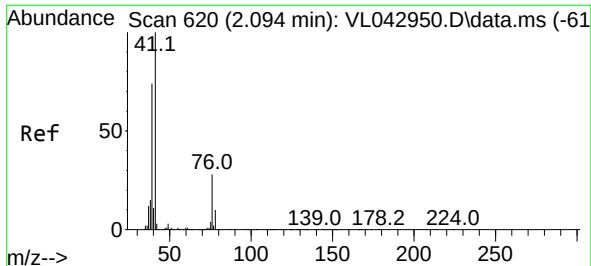


#20
Methylene Chloride
Concen: 9.945 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15



Tgt Ion: 84 Resp: 61743
Ion Ratio Lower Upper
84 100
49 156.9 124.1 186.1
51 49.6 39.8 59.8
86 60.8 50.9 76.3





#21

Allyl Chloride

Concen: 9.166 ppbv

RT: 2.098 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225

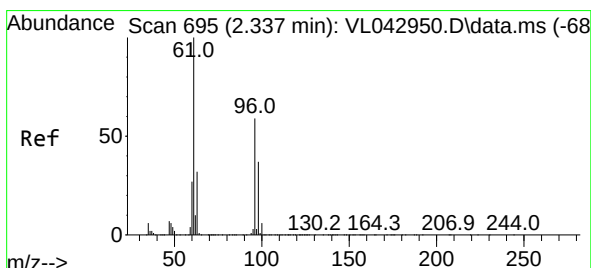
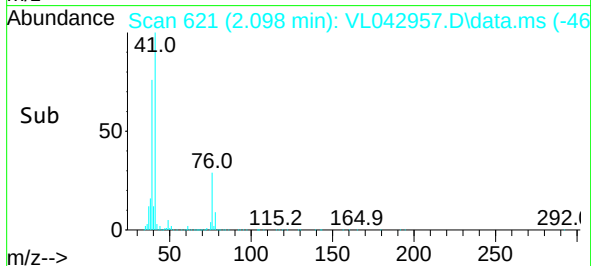
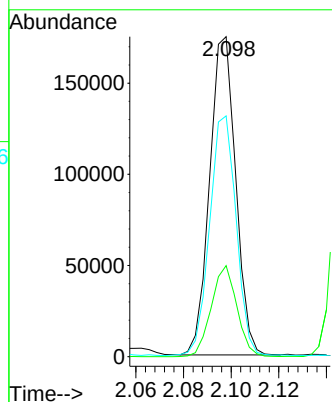
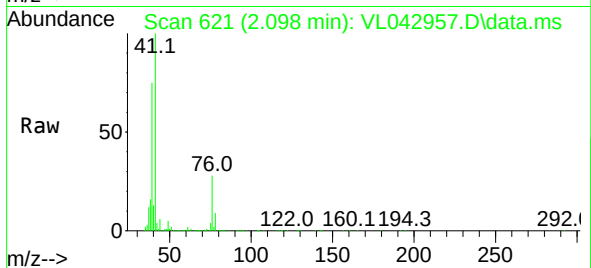
Tgt Ion: 41 Resp: 132878

Ion	Ratio	Lower	Upper
41	100		
76	28.0	22.3	33.5
39	76.4	61.3	91.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#22

trans-1,2-Dichloroethene

Concen: 8.845 ppbv

RT: 2.341 min Scan# 696

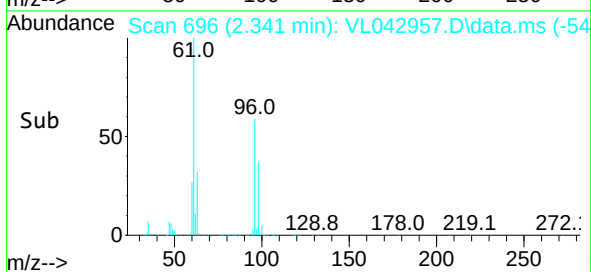
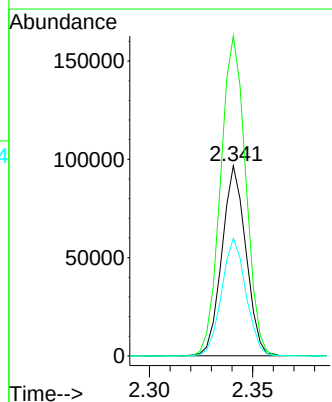
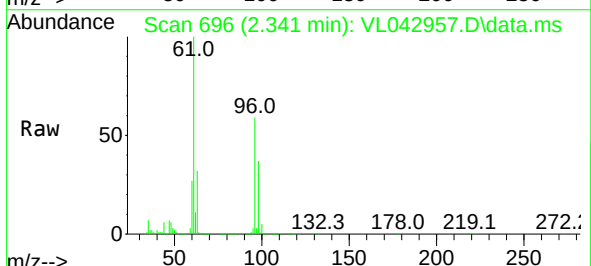
Delta R.T. 0.003 min

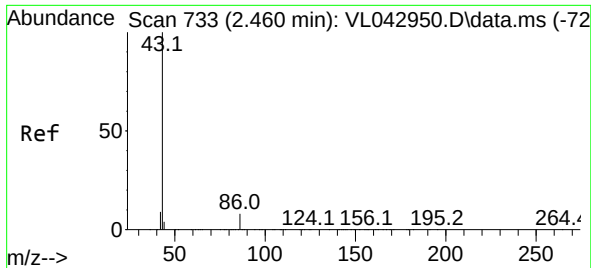
Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Tgt Ion: 96 Resp: 78085

Ion	Ratio	Lower	Upper
96	100		
61	168.1	136.5	204.7
98	61.9	50.6	76.0





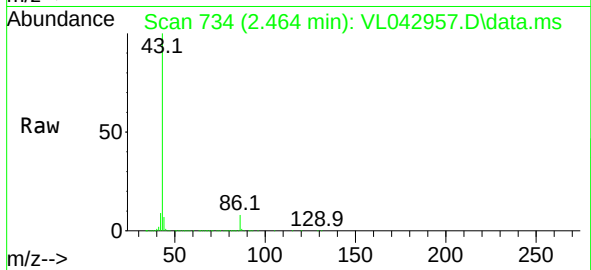
#23
 Vinyl Acetate
 Concen: 9.427 ppbv
 RT: 2.464 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225

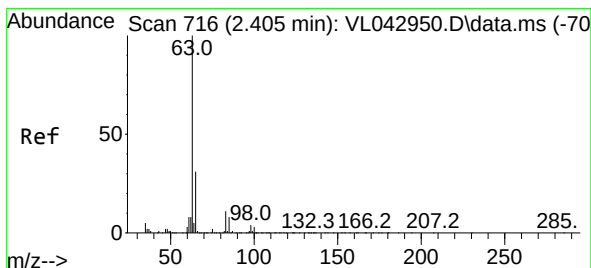
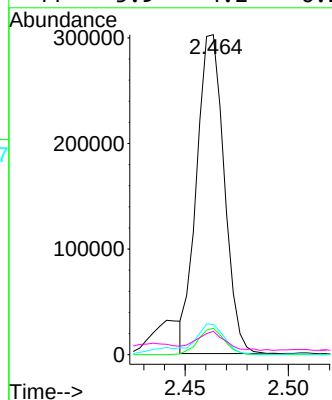
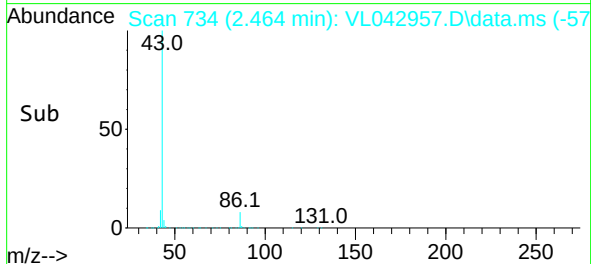


Tgt Ion: 43 Resp: 280339
 Ion Ratio Lower Upper
 43 100
 86 8.3 6.2 9.2
 42 9.4 7.4 11.0
 44 5.9 4.2 6.2

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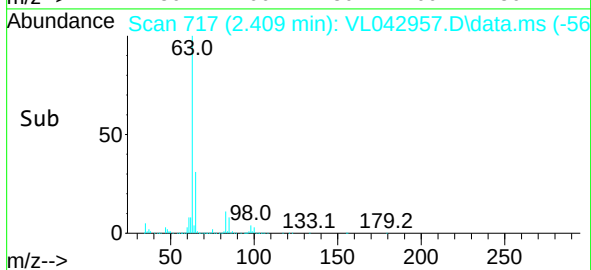
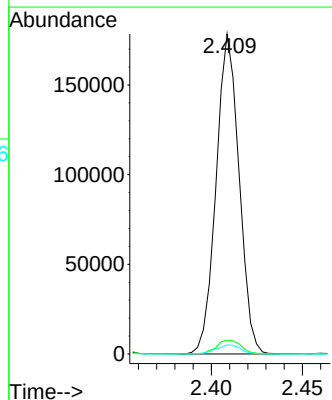
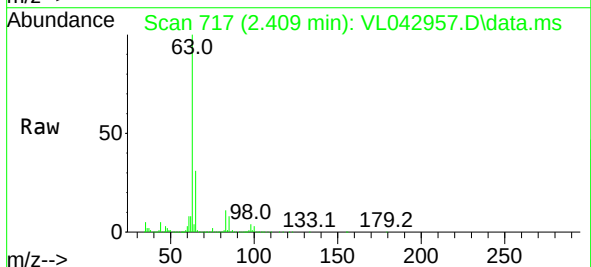
APPROVED

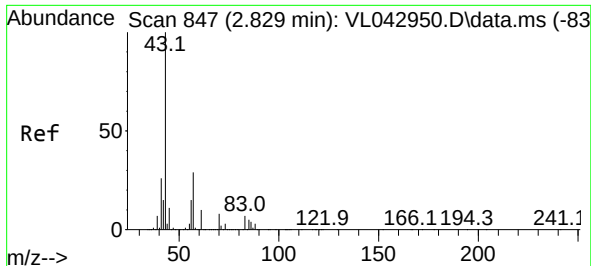
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#24
 1,1-Dichloroethane
 Concen: 9.003 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

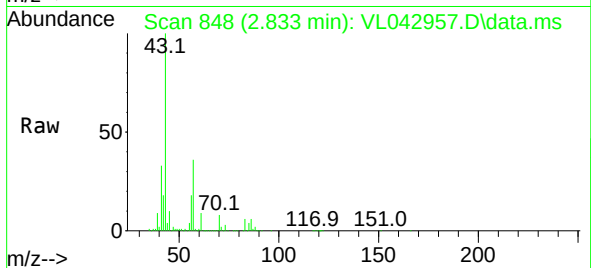
Tgt Ion: 63 Resp: 155861
 Ion Ratio Lower Upper
 63 100
 98 4.2 2.2 6.6
 100 2.8 1.4 4.0





#25
Ethyl Acetate
Concen: 9.256 ppbv
RT: 2.833 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

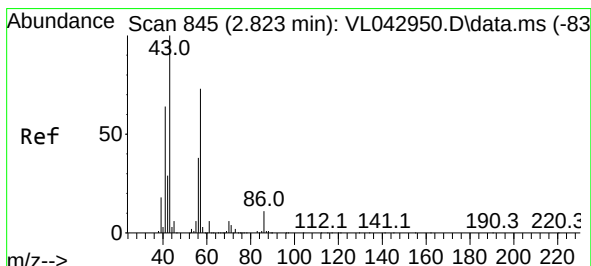
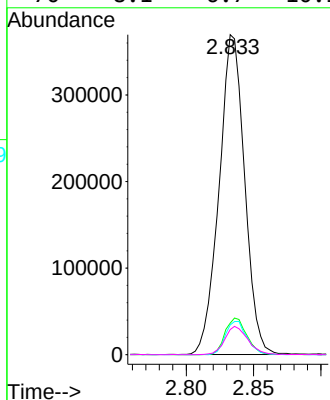
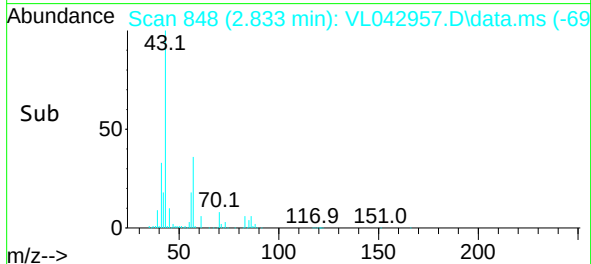
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225



Tgt Ion: 43 Resp: 486993
Ion Ratio Lower Upper
43 100
45 9.8 7.7 11.5
61 8.9 7.1 10.7
70 8.1 6.7 10.1

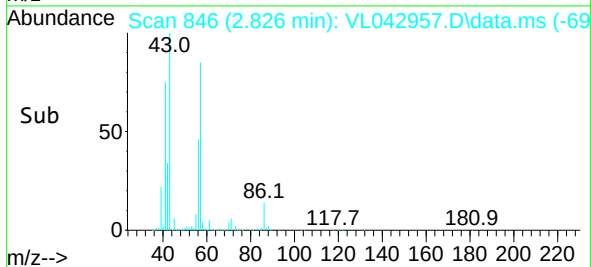
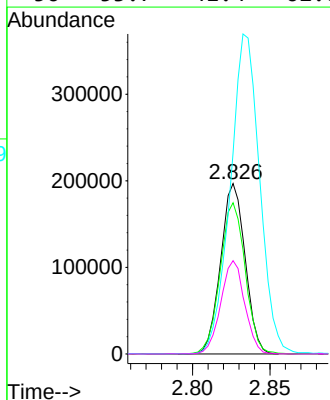
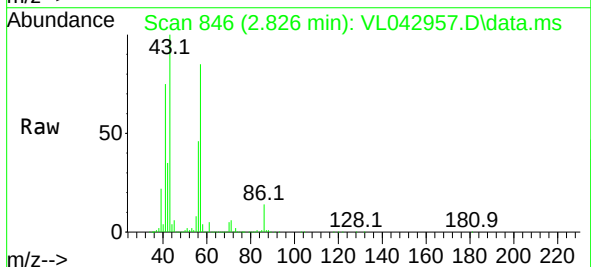
Manual Integrations
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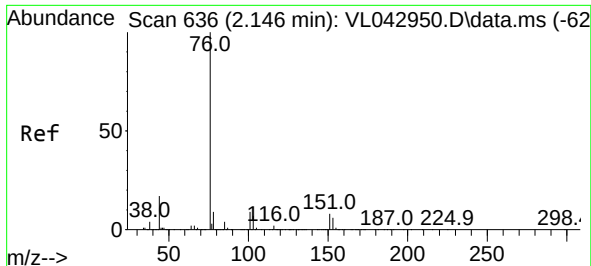
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#26
Hexane
Concen: 9.026 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

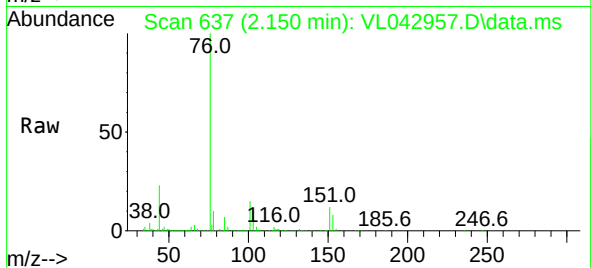
Tgt Ion: 57 Resp: 216458
Ion Ratio Lower Upper
57 100
41 90.9 71.7 107.5
43 226.2 180.8 271.2
56 53.7 41.4 62.0





#27
Carbon Disulfide
Concen: 9.121 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

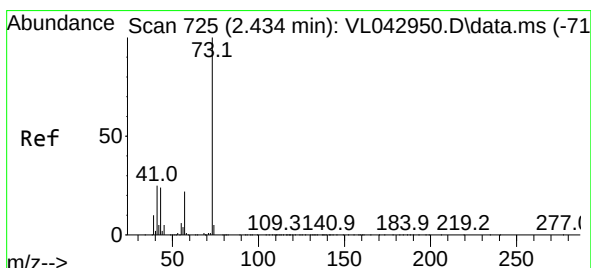
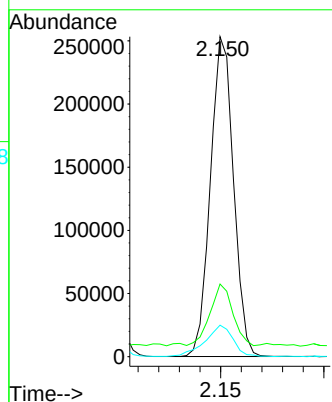
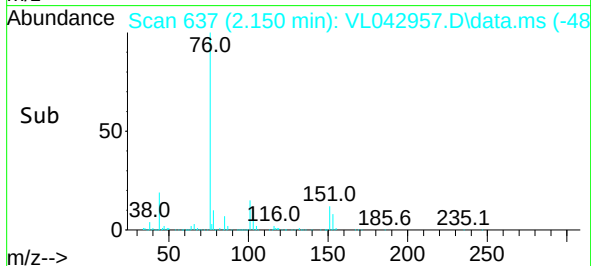
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225



Tgt Ion: 76 Resp: 19619
Ion Ratio Lower Upper
76 100
44 20.2 15.6 23.4
78 12.1 8.9 13.3

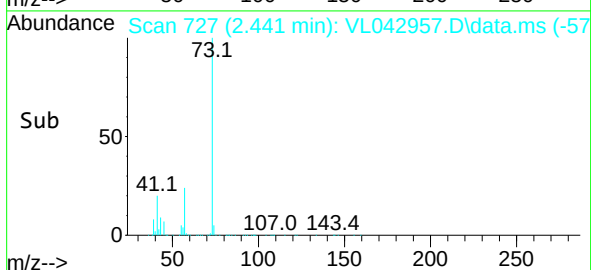
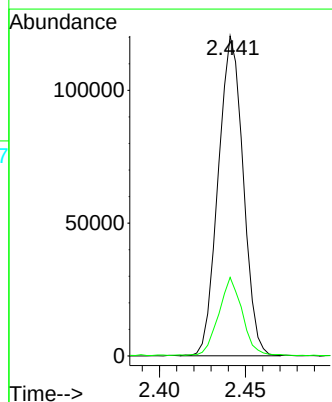
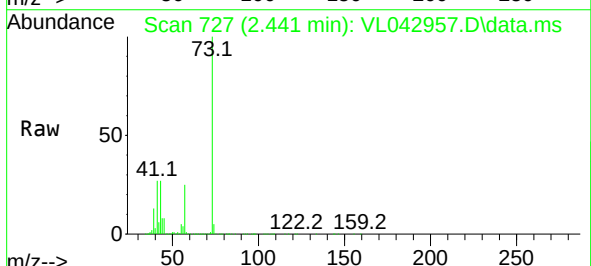
Manual Integrations
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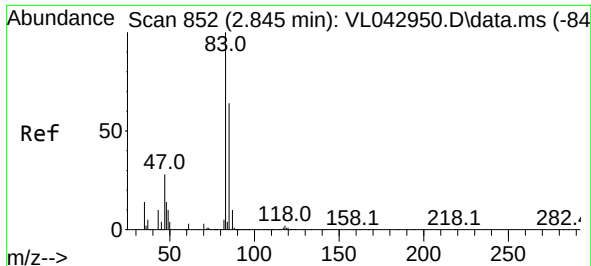
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#28
Methyl tert-Butyl Ether
Concen: 9.752 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 73 Resp: 121564
Ion Ratio Lower Upper
73 100
57 23.3 20.6 31.0





#29

Chloroform

Concen: 9.583 ppbv

RT: 2.849 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042957.D

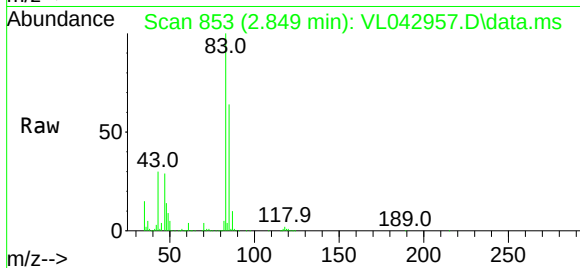
Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225



Tgt Ion: 83 Resp: 30050

Ion Ratio Lower Upper

83 100

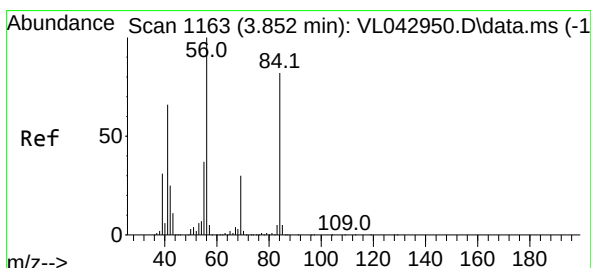
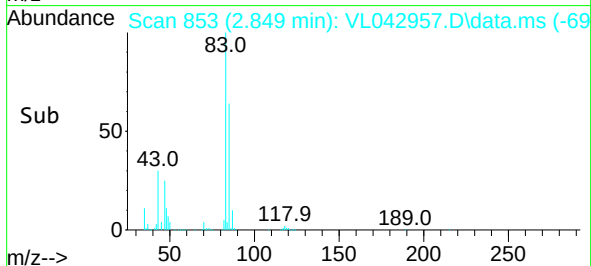
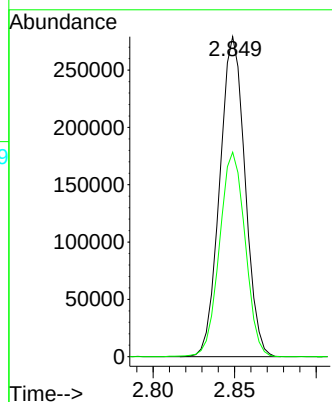
85 63.9 51.2 76.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#30

Cyclohexane

Concen: 9.286 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.003 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

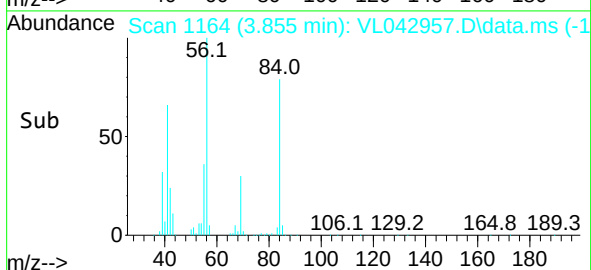
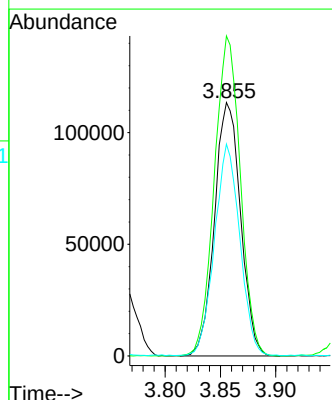
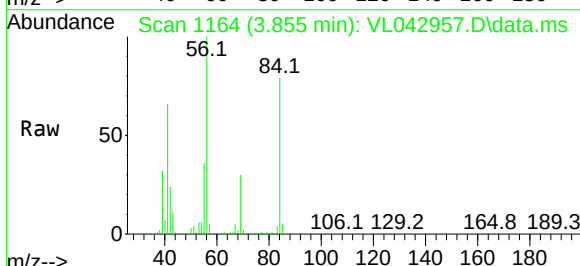
Tgt Ion: 84 Resp: 186186

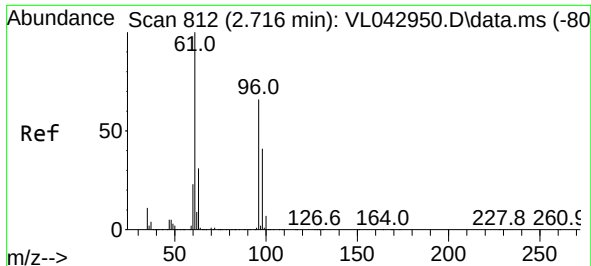
Ion Ratio Lower Upper

84 100

56 125.6 102.2 153.4

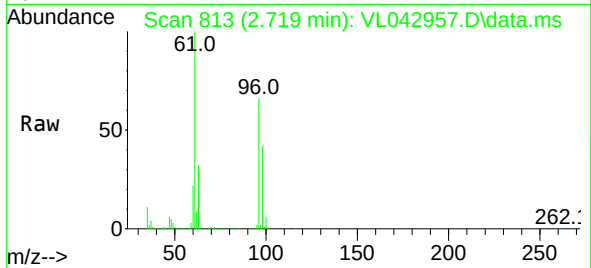
41 81.2 65.6 98.4





#31
 cis-1,2-Dichloroethene
 Concen: 9.497 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

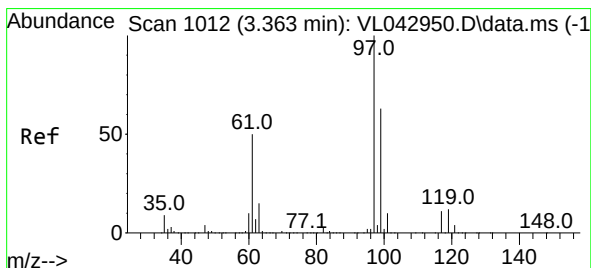
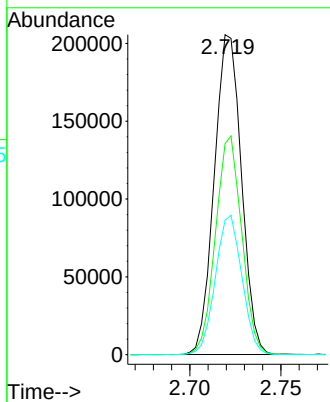
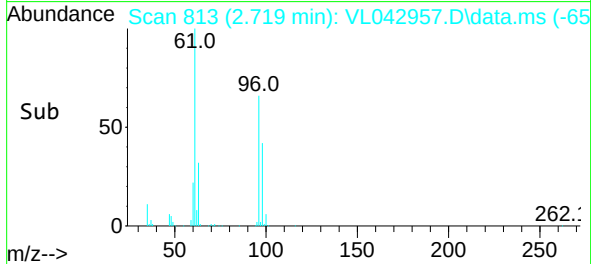
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225



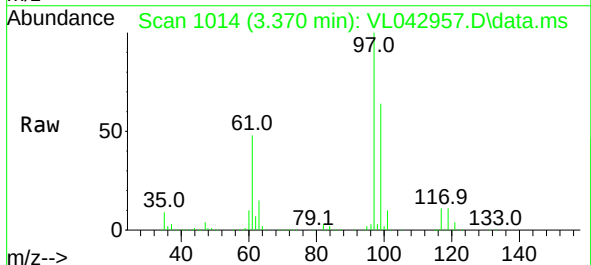
Tgt Ion: 61 Resp: 213362
 Ion Ratio Lower Upper
 61 100
 96 65.9 53.0 79.6
 98 42.0 32.9 49.3

Manual Integrations
 APPROVED

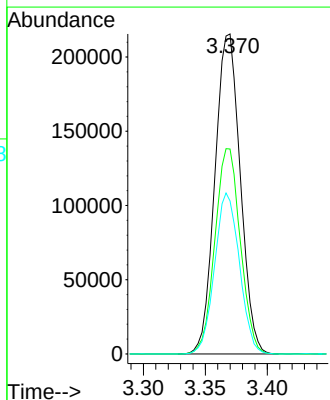
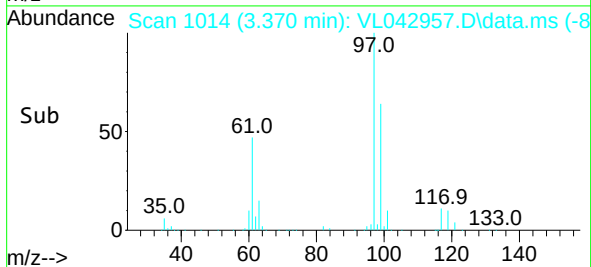
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

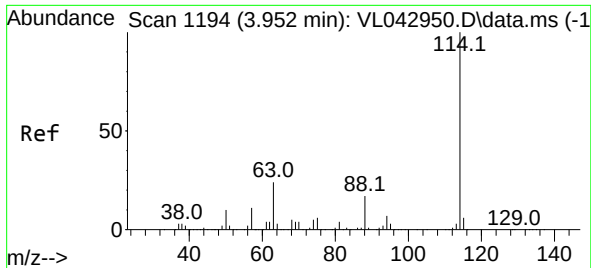


#32
 1,1,1-Trichloroethane
 Concen: 9.071 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.007 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15



Tgt Ion: 97 Resp: 307237
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.1 76.7
 61 49.3 39.8 59.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. 0.003 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225

Tgt Ion:114 Resp: 493072

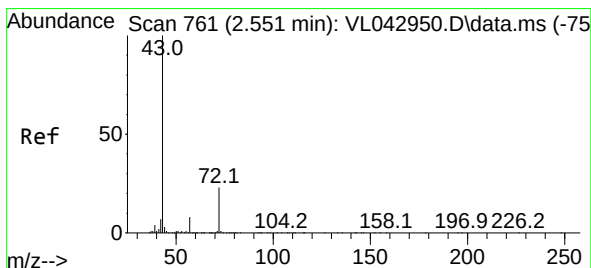
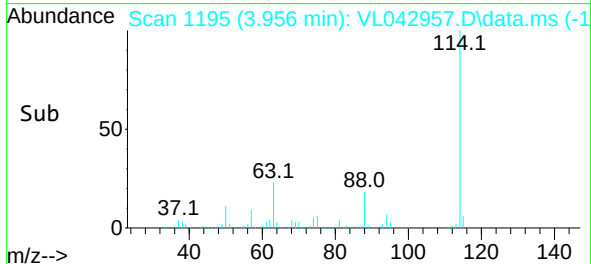
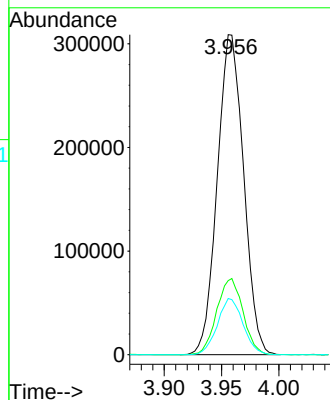
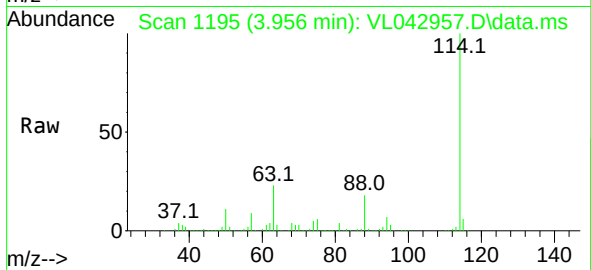
Ion	Ratio	Lower	Upper
114	100		
63	23.8	19.4	29.2
88	17.0	14.2	21.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#34

2-Butanone

Concen: 9.081 ppbv

RT: 2.558 min Scan# 763

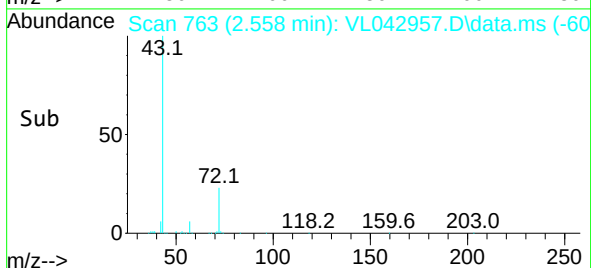
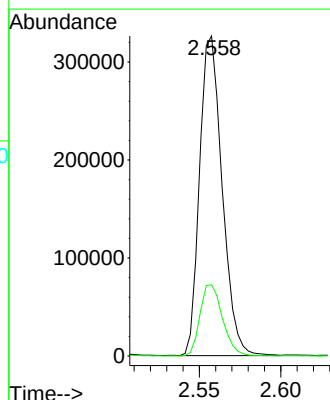
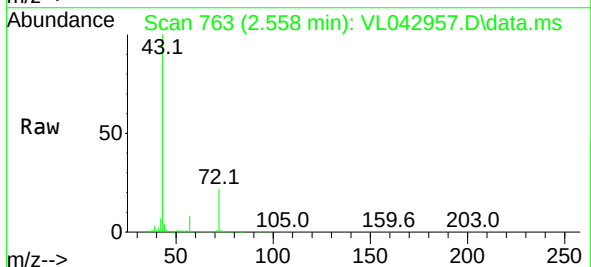
Delta R.T. 0.007 min

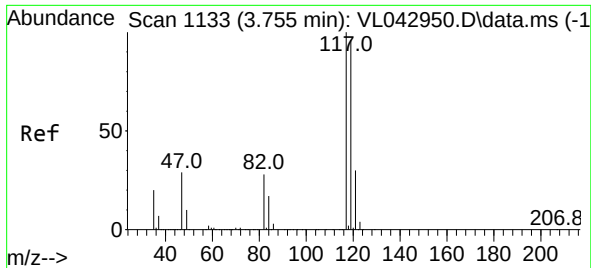
Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Tgt Ion: 43 Resp: 313801

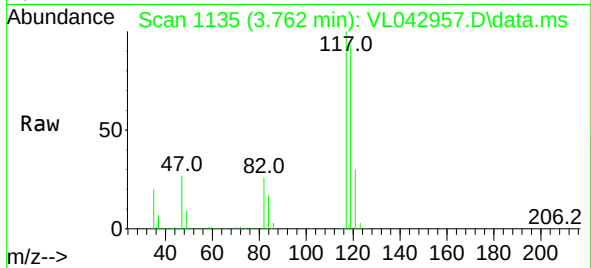
Ion	Ratio	Lower	Upper
43	100		
72	22.3	17.7	26.5





#35
Carbon Tetrachloride
Concen: 9.479 ppbv
RT: 3.762 min Scan# 1133
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

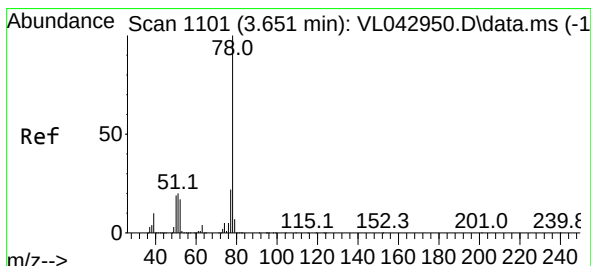
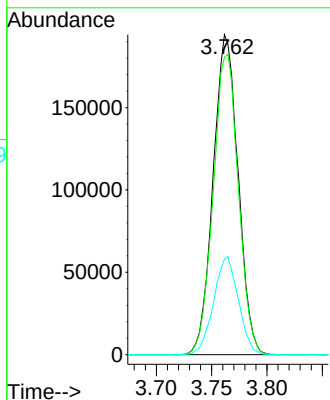
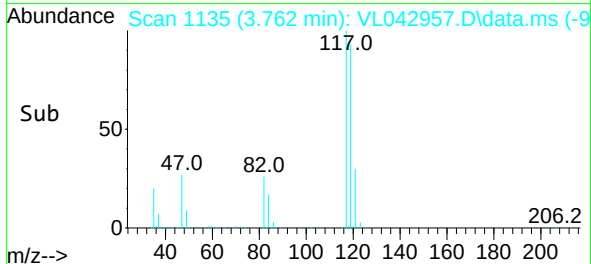
Instrument : MSVOA_L
ClientSampleId : ICVVL092225



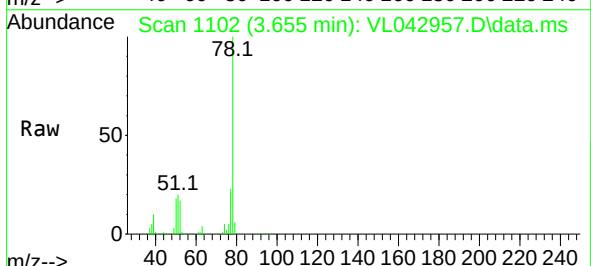
Tgt Ion:117 Resp: 30429
Ion Ratio Lower Upper
117 100
119 92.9 76.9 115.3
121 29.8 23.7 35.5

Manual Integrations
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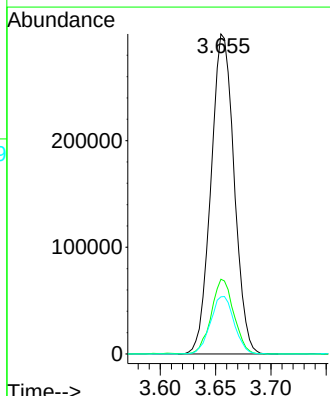
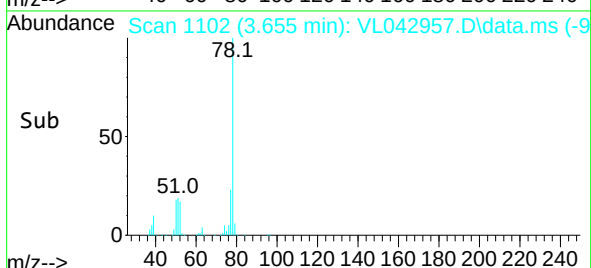
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

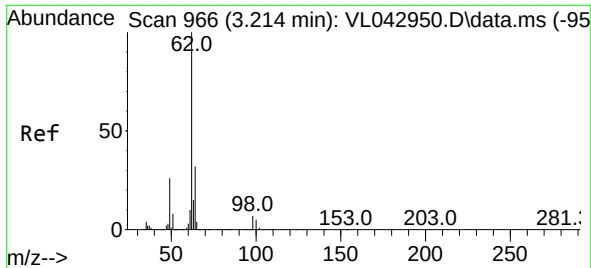


#36
Benzene
Concen: 9.416 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15



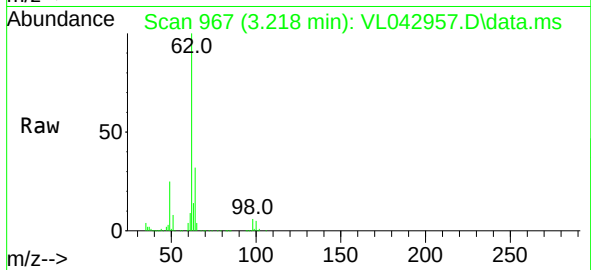
Tgt Ion: 78 Resp: 435981
Ion Ratio Lower Upper
78 100
77 23.3 17.8 26.6
50 17.9 15.0 22.4





#37
1,2-Dichloroethane
Concen: 9.581 ppbv
RT: 3.218 min Scan# 966
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

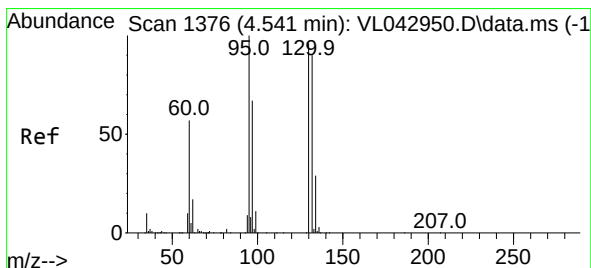
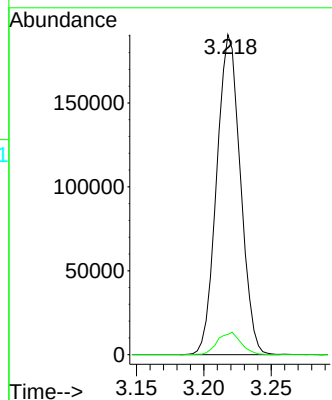
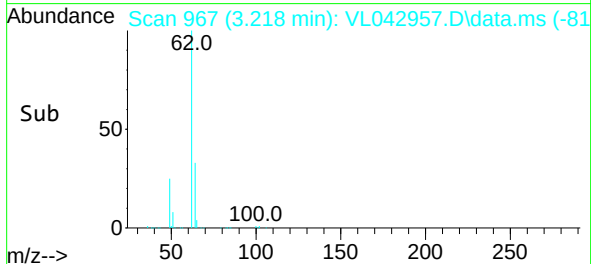
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225



Tgt Ion: 62 Resp: 23330
Ion Ratio Lower Upper
62 100
98 7.0 5.9 8.9

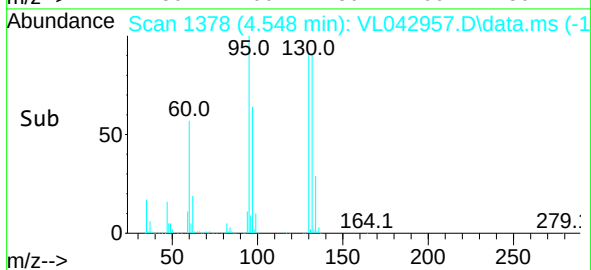
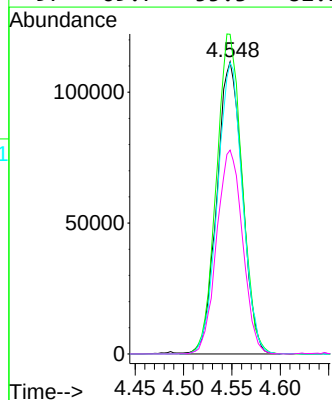
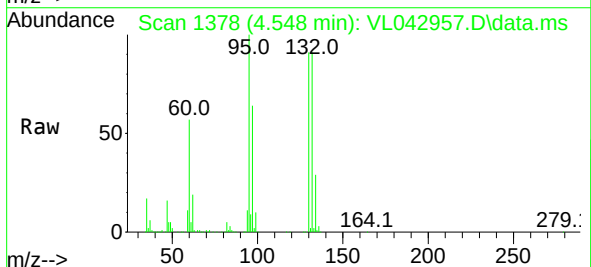
Manual Integrations
APPROVED

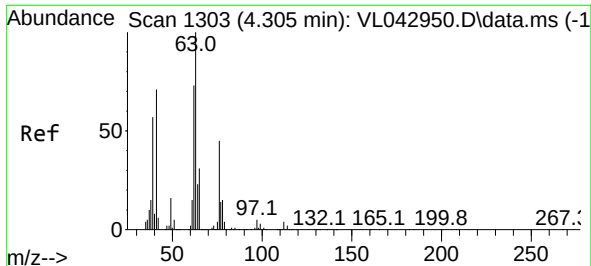
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#38
Trichloroethene
Concen: 8.927 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion:130 Resp: 205431
Ion Ratio Lower Upper
130 100
95 109.4 83.0 124.4
132 99.7 74.6 112.0
97 69.7 55.3 82.9





#39

1,2-Dichloropropane

Concen: 9.482 ppbv

RT: 4.312 min Scan# 11

Delta R.T. 0.007 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

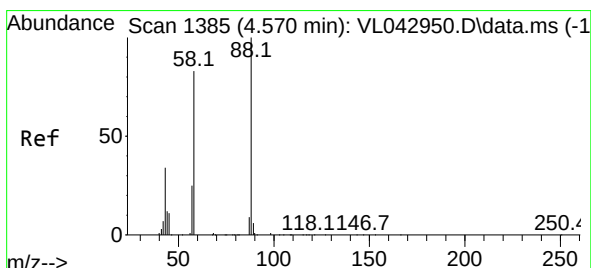
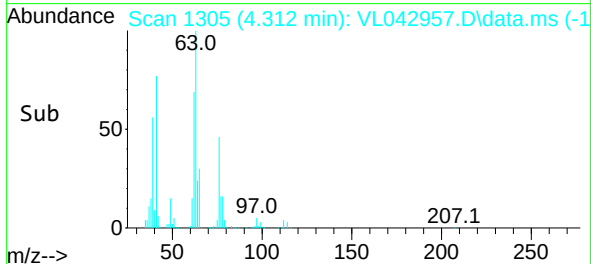
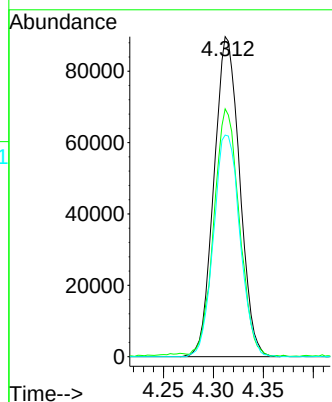
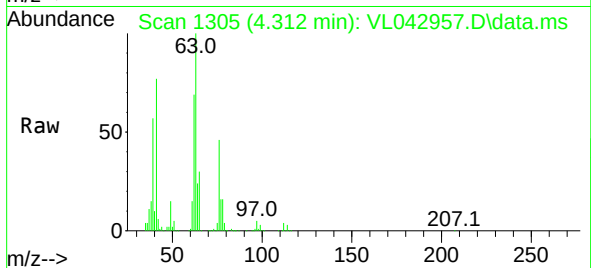
ICVVL092225

Tgt Ion: 63	Resp: 16027
Ion Ratio	Lower Upper
63 100	
41 77.2	57.5 86.3
62 69.3	58.5 87.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#40

1,4-Dioxane

Concen: 8.863 ppbv

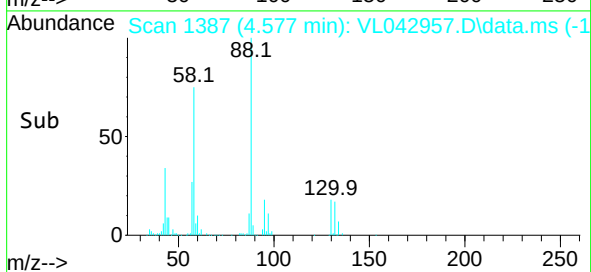
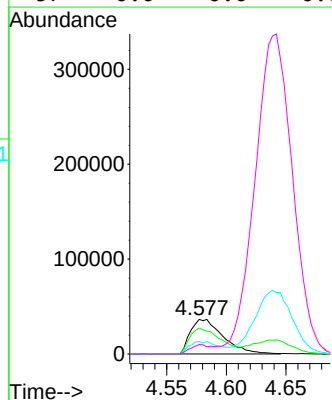
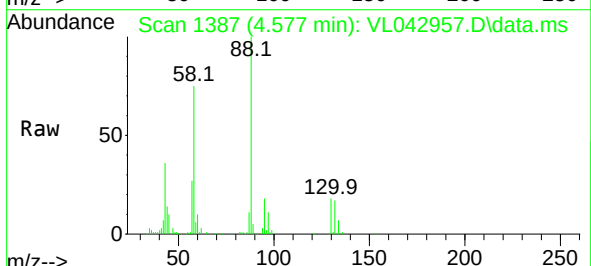
RT: 4.577 min Scan# 1387

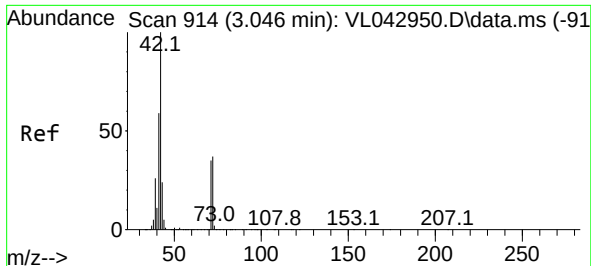
Delta R.T. 0.007 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

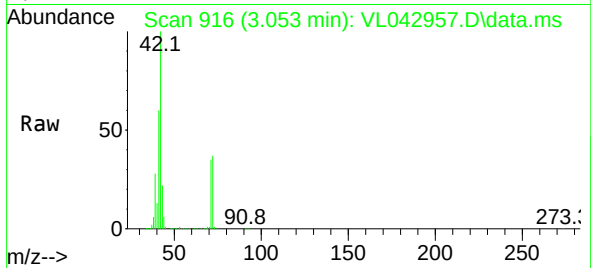
Tgt Ion: 88	Resp: 69659
Ion Ratio	Lower Upper
88 100	
58 70.6	59.7 89.5
43 32.1	28.9 43.3
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 9.277 ppbv
RT: 3.053 min Scan# 914
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

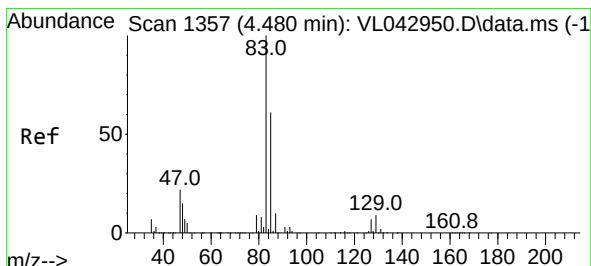
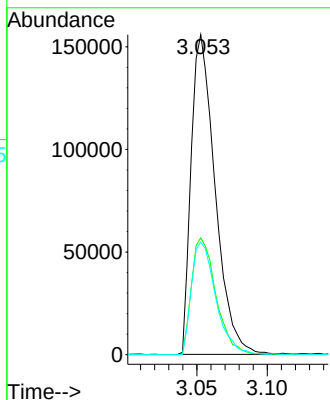
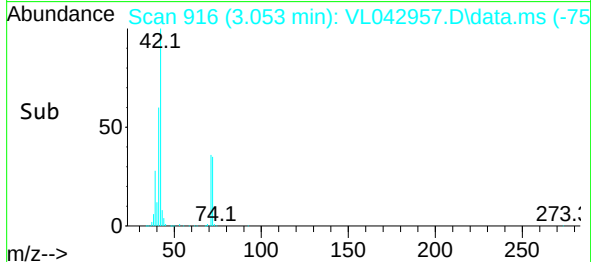
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225



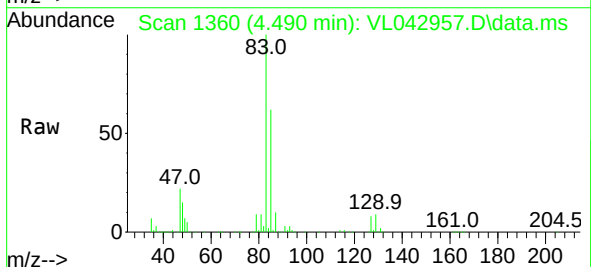
Tgt Ion: 42 Resp: 184258
Ion Ratio Lower Upper
42 100
72 37.4 30.0 45.0
71 35.9 28.8 43.2

Manual Integrations
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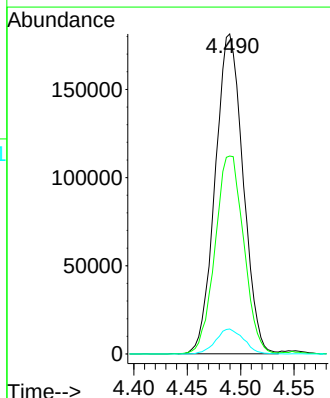
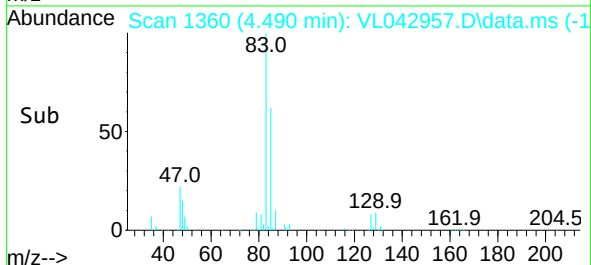
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

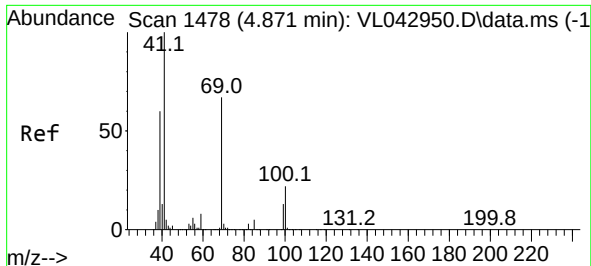


#42
Bromodichloromethane
Concen: 9.721 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.010 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15



Tgt Ion: 83 Resp: 329680
Ion Ratio Lower Upper
83 100
85 61.8 49.0 73.6
127 7.8 5.3 7.9





#43

Methyl Methacrylate

Concen: 9.125 ppbv

RT: 4.878 min Scan# 1478

Delta R.T. 0.007 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225

Tgt Ion: 69 Resp: 17286

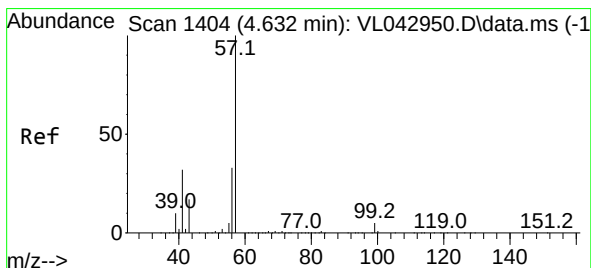
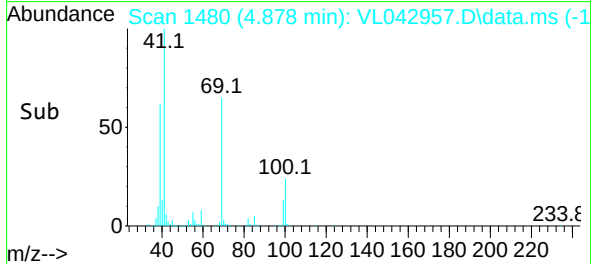
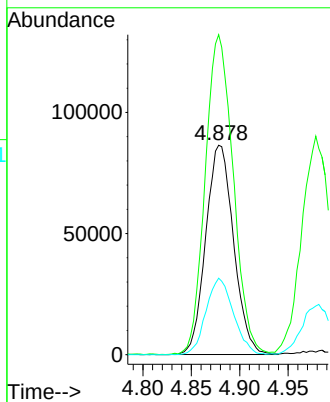
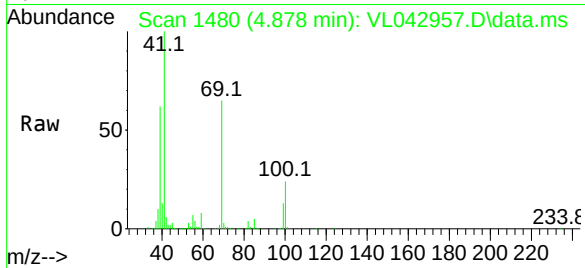
Ion	Ratio	Lower	Upper
69	100		
41	153.4	124.5	186.7
100	36.1	29.0	43.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#44

2,2,4-Trimethylpentane

Concen: 9.239 ppbv

RT: 4.642 min Scan# 1407

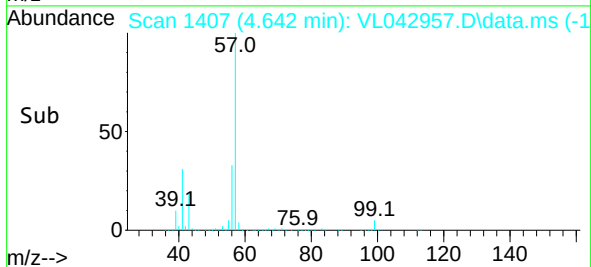
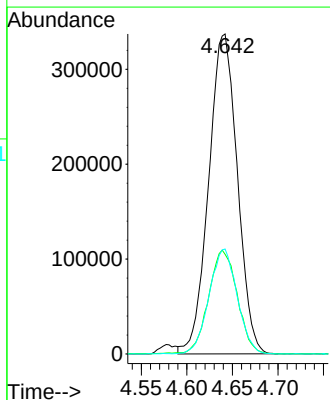
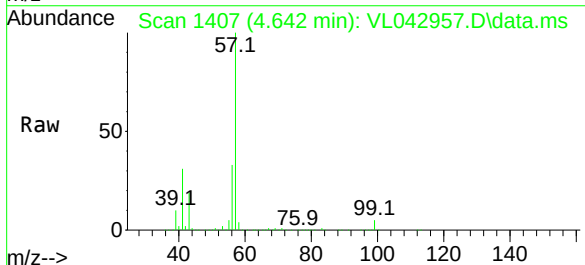
Delta R.T. 0.010 min

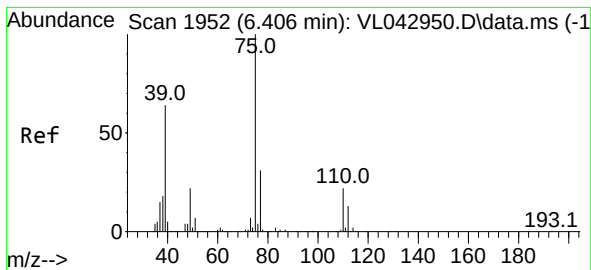
Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Tgt Ion: 57 Resp: 738876

Ion	Ratio	Lower	Upper
57	100		
41	32.5	25.5	38.3
56	32.3	25.8	38.8





#45

t-1,3-Dichloropropene

Concen: 9.321 ppbv

RT: 6.416 min Scan# 1952

Delta R.T. 0.010 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225

Tgt Ion: 75 Resp: 18833

Ion Ratio Lower Upper

75 100

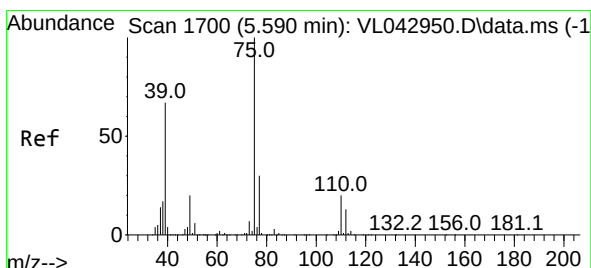
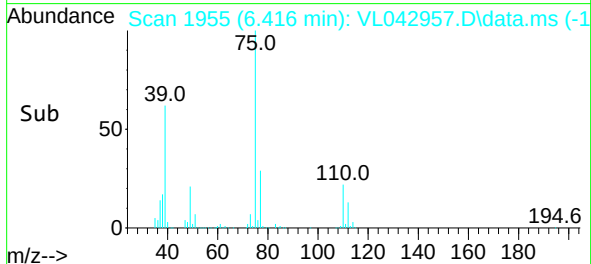
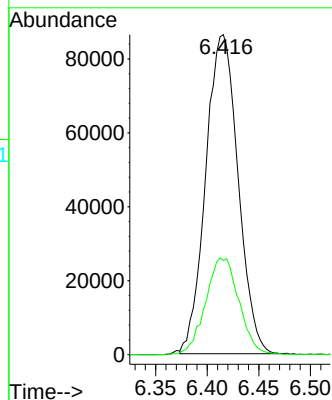
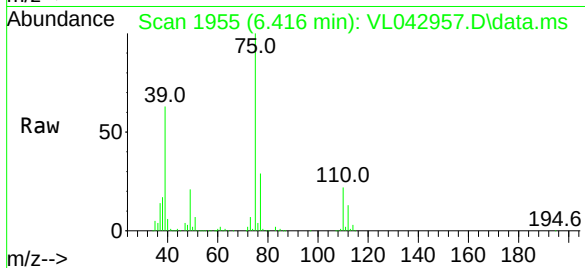
77 29.5 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#46

cis-1,3-Dichloropropene

Concen: 9.490 ppbv

RT: 5.603 min Scan# 1704

Delta R.T. 0.013 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

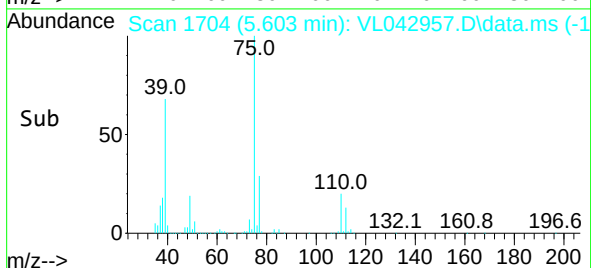
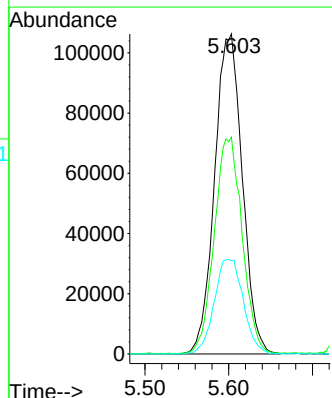
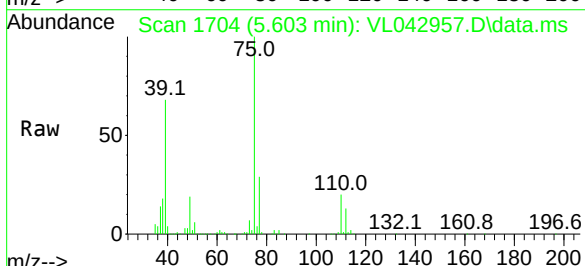
Tgt Ion: 75 Resp: 244367

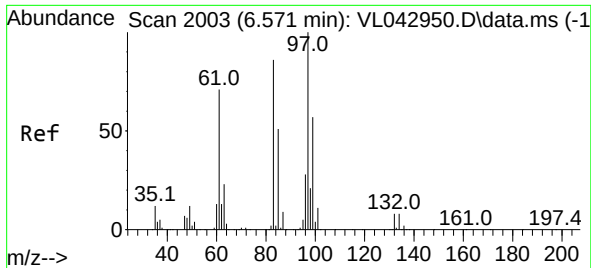
Ion Ratio Lower Upper

75 100

39 67.6 53.8 80.6

77 29.1 23.6 35.4





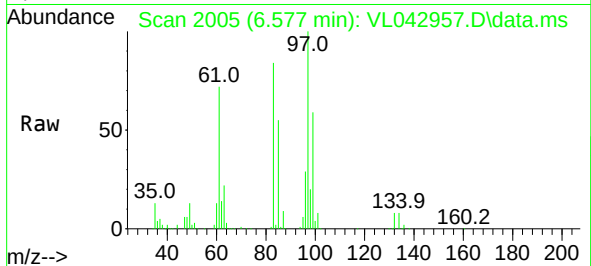
#47
1,1,2-Trichloroethane
Concen: 9.279 ppbv
RT: 6.577 min Scan# 2003
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225

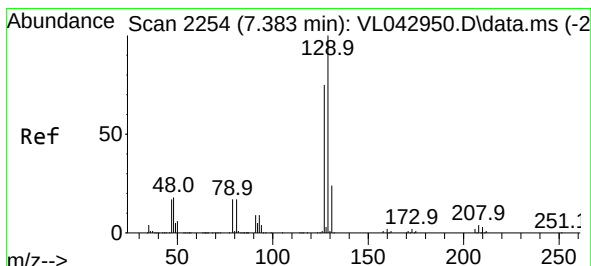
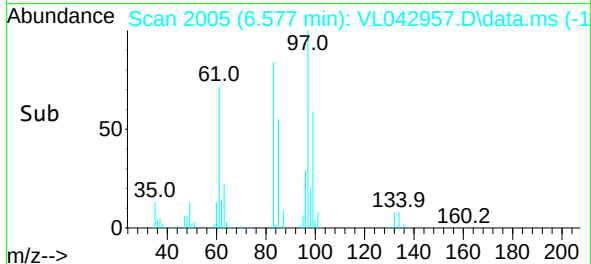
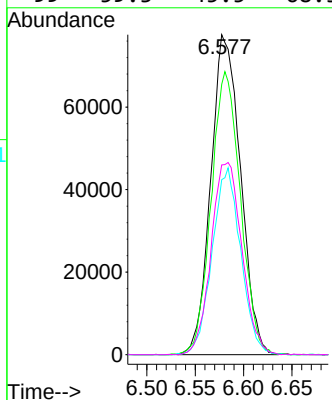


Tgt Ion: 97 Resp: 16572
Ion Ratio Lower Upper
97 100
83 84.4 68.7 103.1
85 54.5 40.6 60.8
99 59.3 45.5 68.3

Manual Integrations

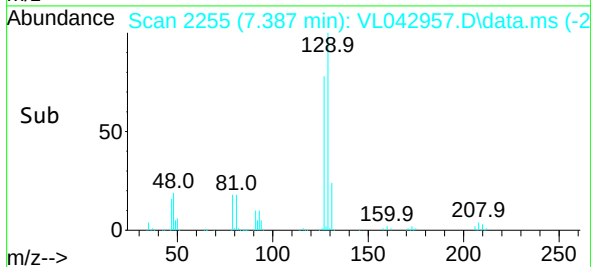
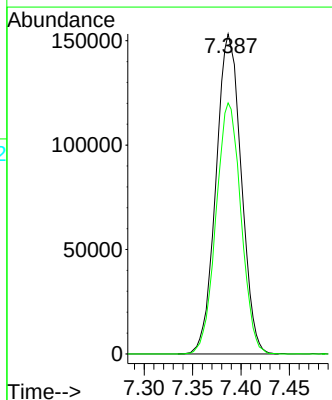
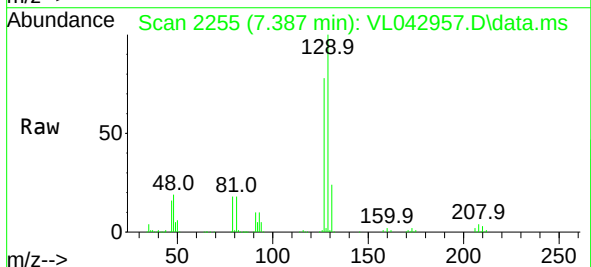
APPROVED

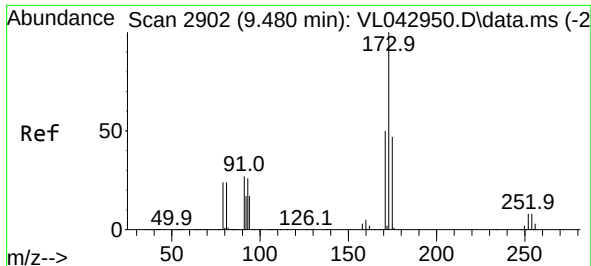
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#48
Dibromochloromethane
Concen: 9.732 ppbv
RT: 7.387 min Scan# 2255
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

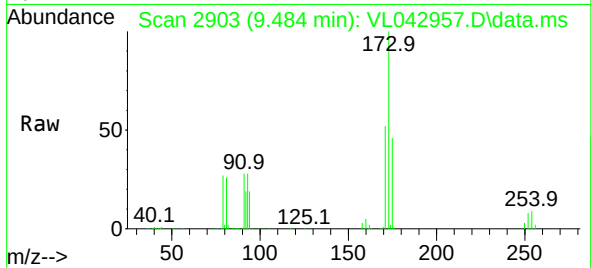
Tgt Ion:129 Resp: 278090
Ion Ratio Lower Upper
129 100
127 77.5 39.1 117.2





#49
Bromoform
Concen: 9.589 ppbv
RT: 9.484 min Scan# 2903
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

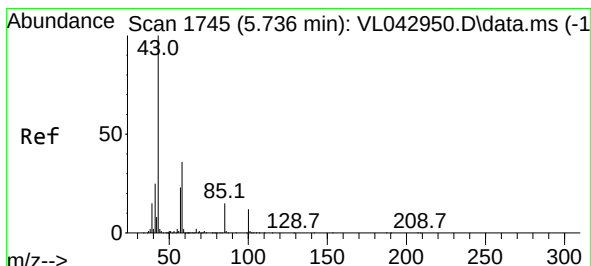
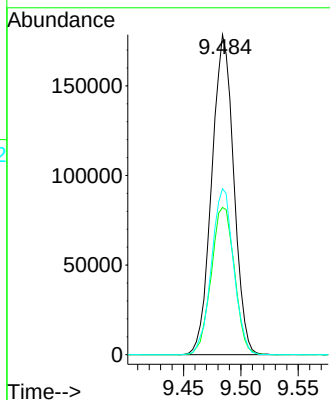
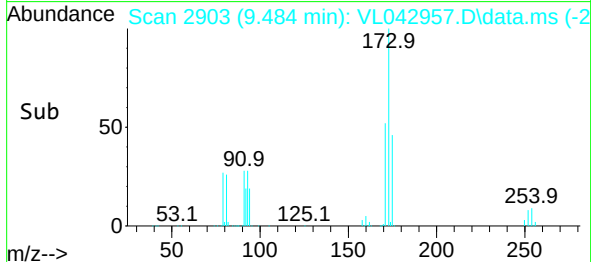
Instrument : MSVOA_L
ClientSampleId : ICVVL092225



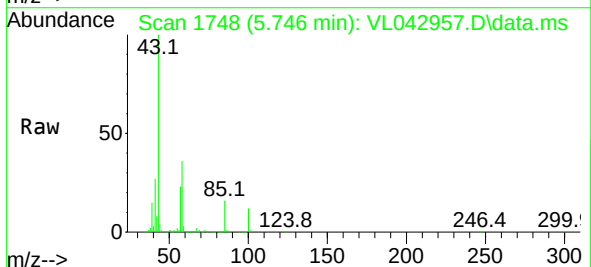
Tgt Ion: 173 Resp: 23833
Ion Ratio Lower Upper
173 100
175 48.6 37.9 56.9
171 52.1 41.1 61.7

Manual Integrations
APPROVED

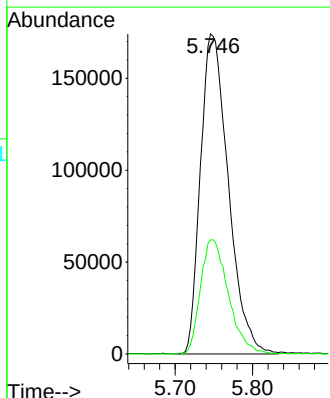
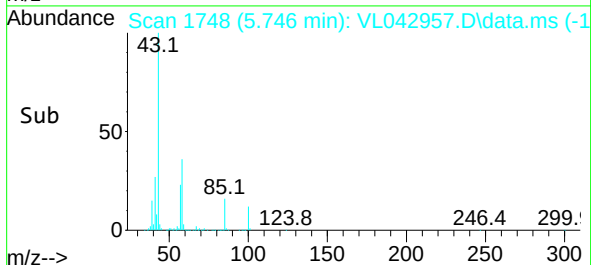
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

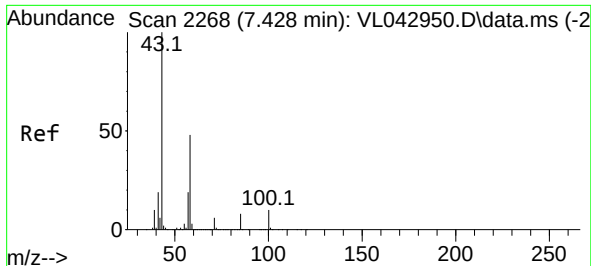


#50
4-Methyl-2-Pentanone
Concen: 9.411 ppbv
RT: 5.746 min Scan# 1748
Delta R.T. 0.010 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15



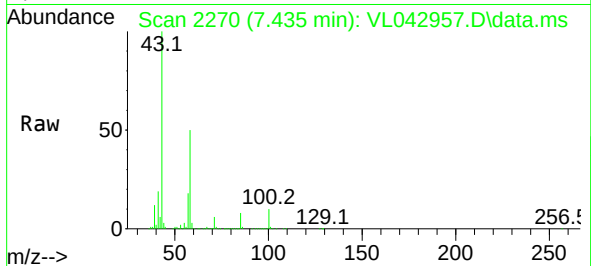
Tgt Ion: 43 Resp: 435845
Ion Ratio Lower Upper
43 100
58 35.8 28.4 42.6





#51
2-Hexanone
Concen: 9.561 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

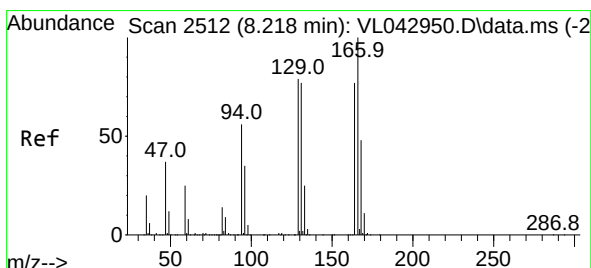
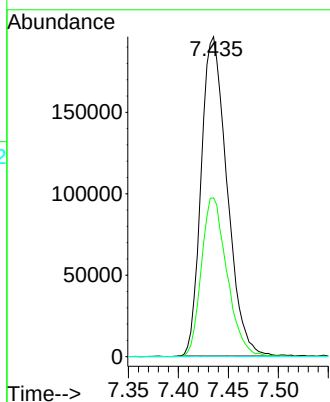
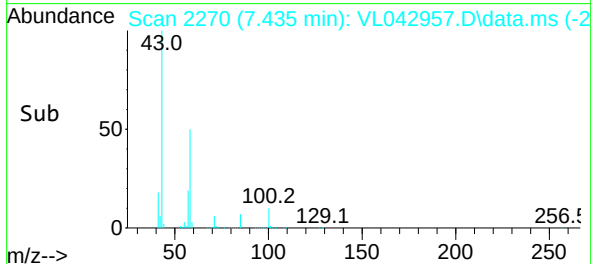
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225



Tgt Ion: 43 Resp: 352962
Ion Ratio Lower Upper
43 100
58 49.5 39.7 59.5
98 0.1 0.1 0.1

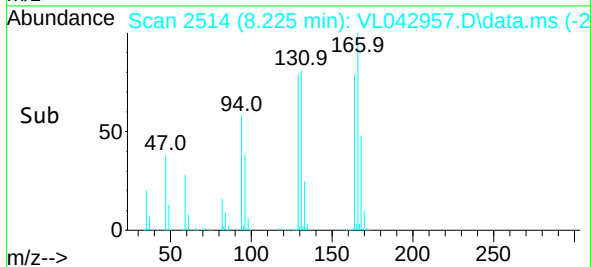
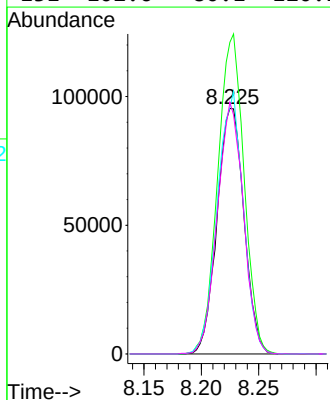
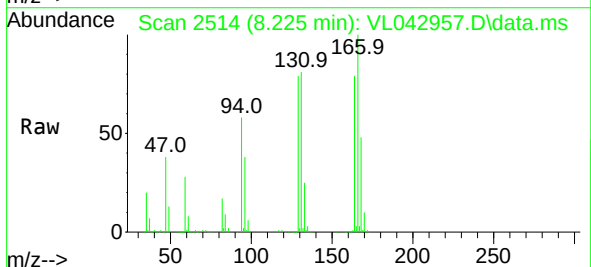
Manual Integrations
APPROVED

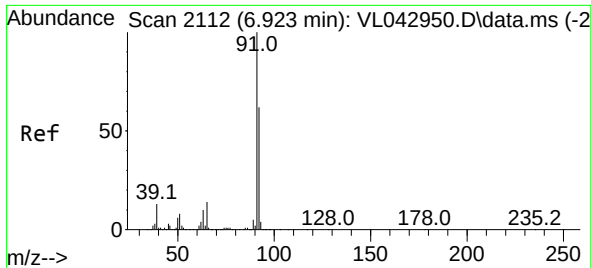
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#52
Tetrachloroethene
Concen: 8.678 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

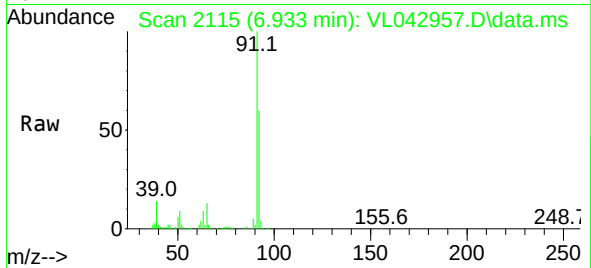
Tgt Ion:164 Resp: 155469
Ion Ratio Lower Upper
164 100
166 127.0 103.5 155.3
129 100.4 82.2 123.4
131 102.6 80.1 120.1





#53
Toluene
Concen: 9.306 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.010 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

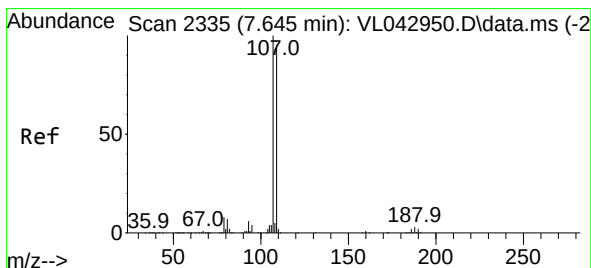
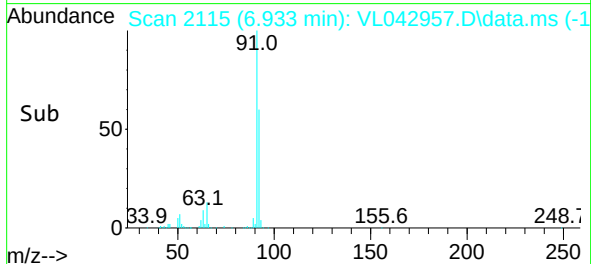
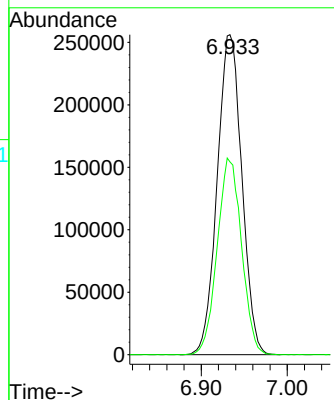
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225



Tgt Ion: 91 Resp: 50996
Ion Ratio Lower Upper
91 100
92 60.7 48.2 72.2

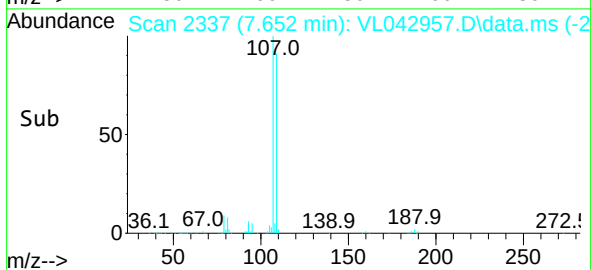
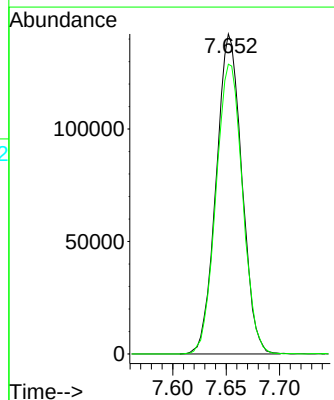
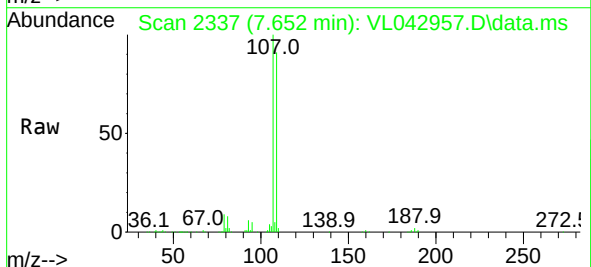
Manual Integrations
APPROVED

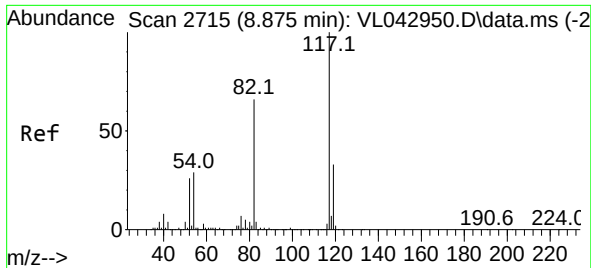
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#54
1,2-Dibromoethane
Concen: 9.452 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

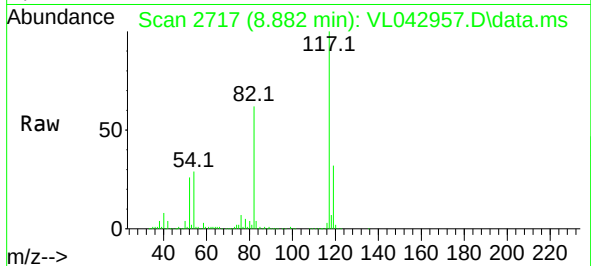
Tgt Ion:107 Resp: 237604
Ion Ratio Lower Upper
107 100
109 90.6 75.8 113.8





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

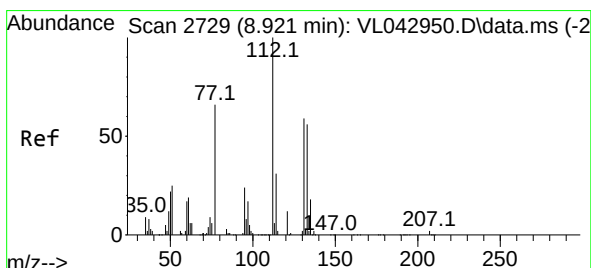
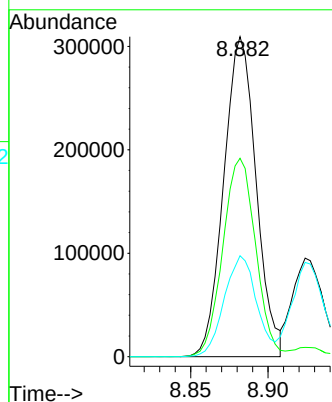
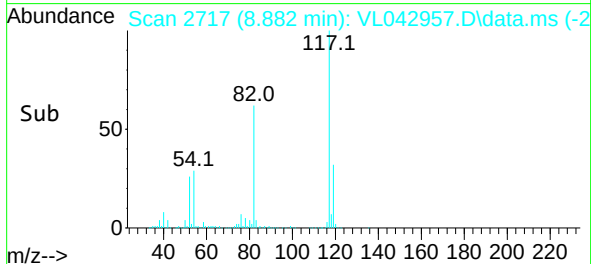
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225



Tgt Ion:117 Resp: 450930
Ion Ratio Lower Upper
117 100
82 65.5 52.8 79.2
119 32.4 26.5 39.7

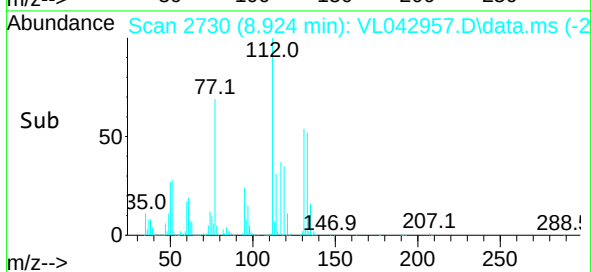
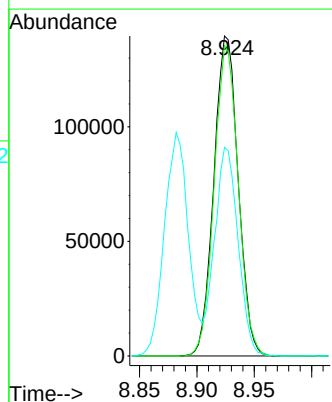
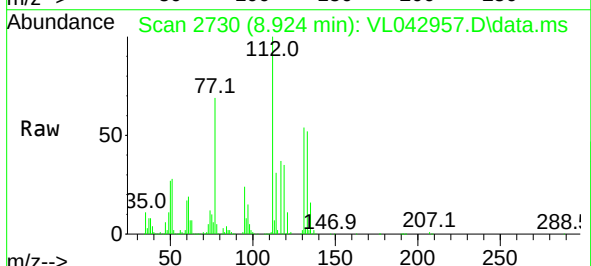
Manual Integrations
APPROVED

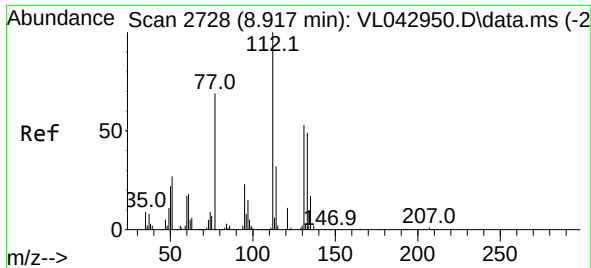
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.536 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

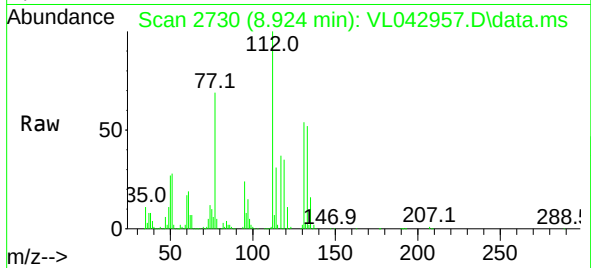
Tgt Ion:131 Resp: 205811
Ion Ratio Lower Upper
131 100
133 96.0 76.6 114.8
119 64.5 49.9 74.9





#57
Chlorobenzene
Concen: 9.209 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

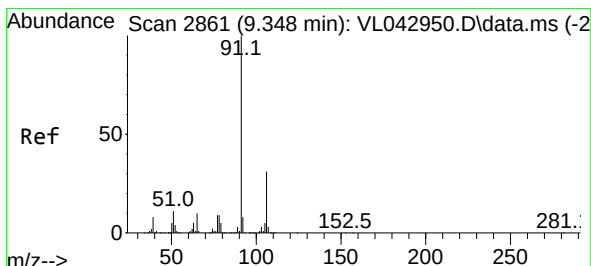
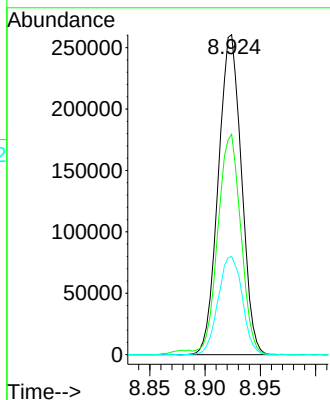
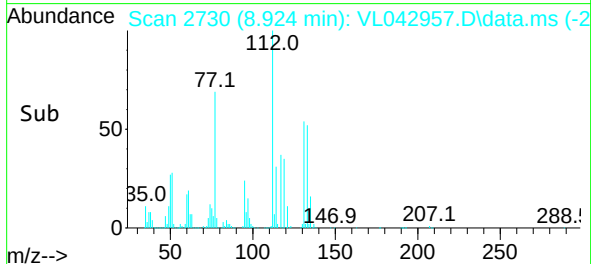
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225



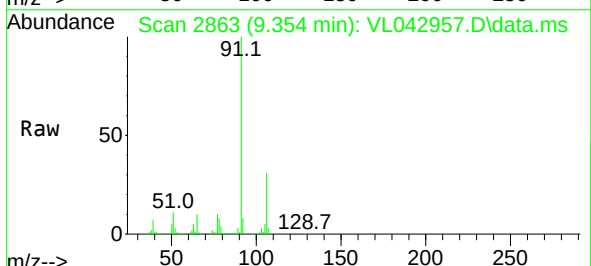
Tgt Ion:112 Resp: 379110
Ion Ratio Lower Upper
112 100
77 68.9 55.7 83.5
114 30.7 28.6 35.0

Manual Integrations
APPROVED

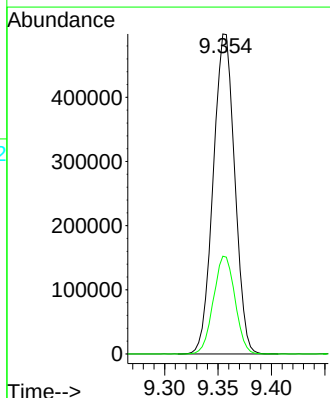
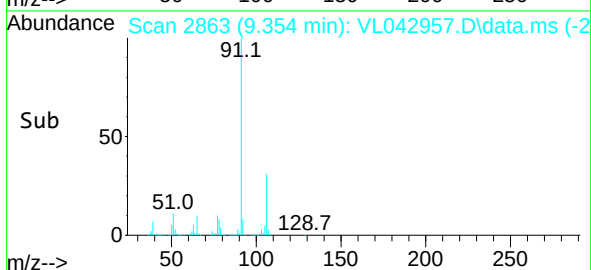
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

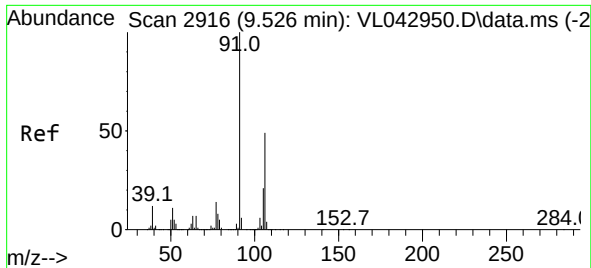


#58
Ethyl Benzene
Concen: 9.428 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15



Tgt Ion: 91 Resp: 698086
Ion Ratio Lower Upper
91 100
106 30.6 24.6 37.0





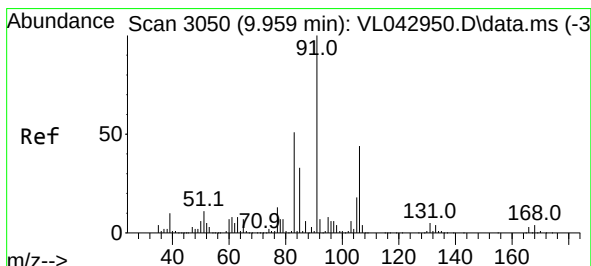
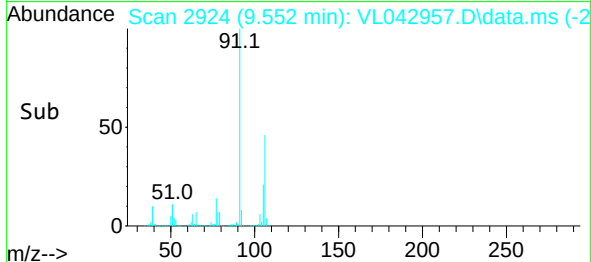
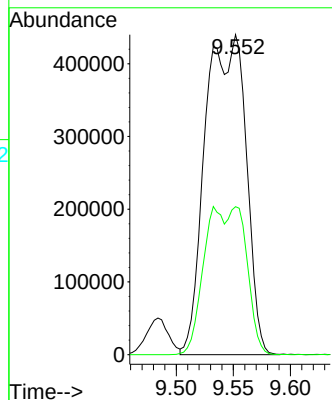
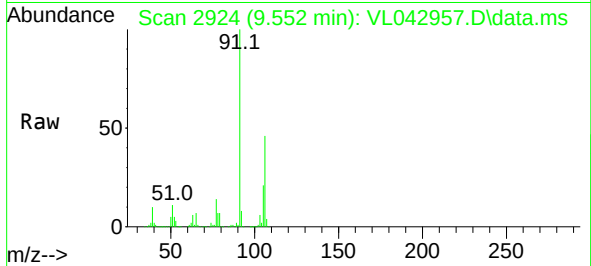
#59
m/p-Xylene
Concen: 18.715 ppbv m
RT: 9.552 min Scan# 2916
Delta R.T. 0.026 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Tgt Ion: 91 Resp: 1092490
Ion Ratio Lower Upper
91 100
106 47.5 0.0 0.0

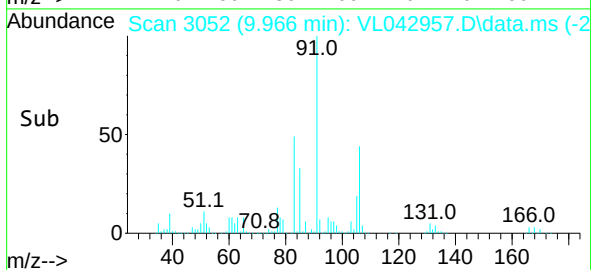
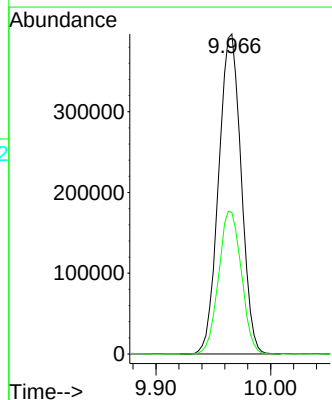
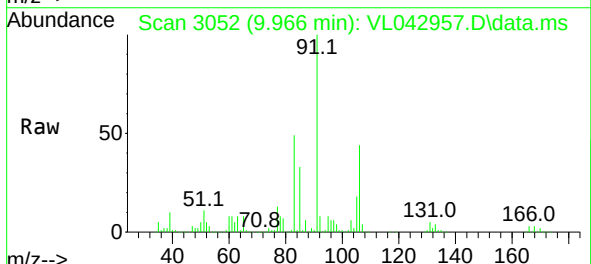
Manual Integrations
APPROVED

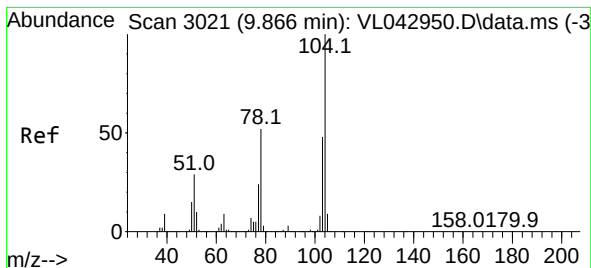
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#60
o-Xylene
Concen: 9.236 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 91 Resp: 538861
Ion Ratio Lower Upper
91 100
106 45.2 22.4 67.0





#61

Styrene

Concen: 9.575 ppbv

RT: 9.872 min Scan# 3021

Delta R.T. 0.007 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

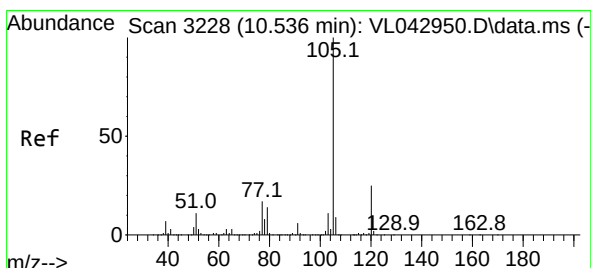
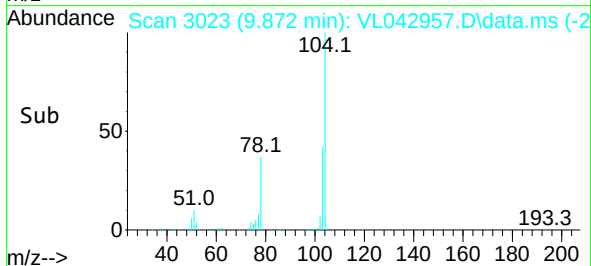
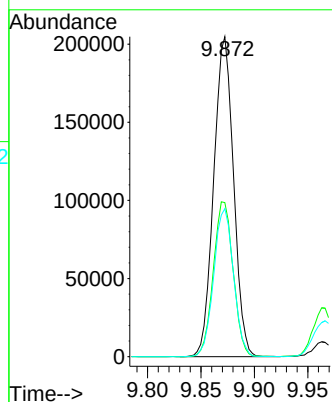
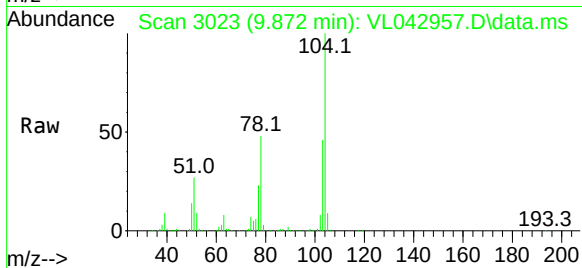
ICVVL092225

Tgt Ion:104 Resp: 26425
 Ion Ratio Lower Upper
 104 100
 78 48.5 39.9 59.9
 103 46.3 36.9 55.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#62

Isopropylbenzene

Concen: 9.230 ppbv

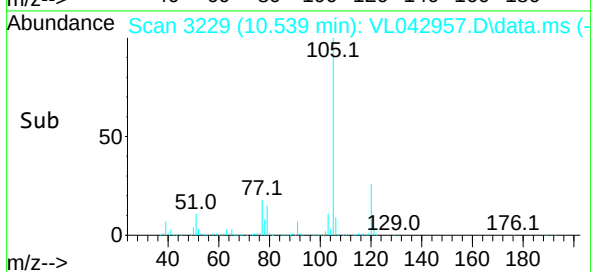
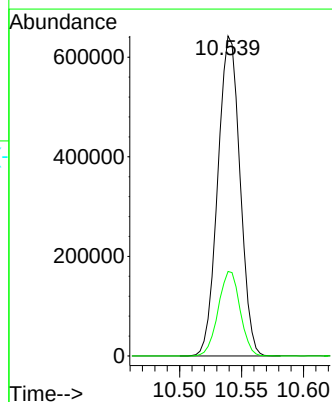
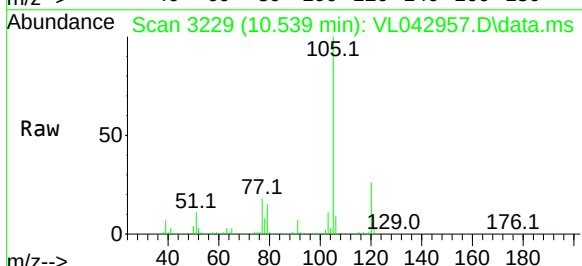
RT: 10.539 min Scan# 3229

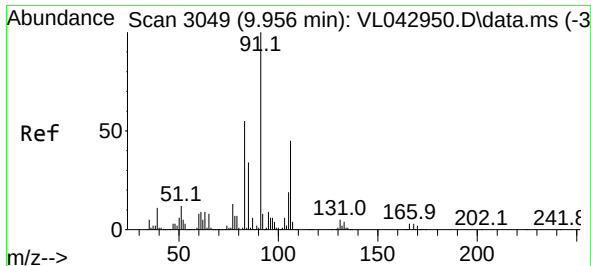
Delta R.T. 0.003 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

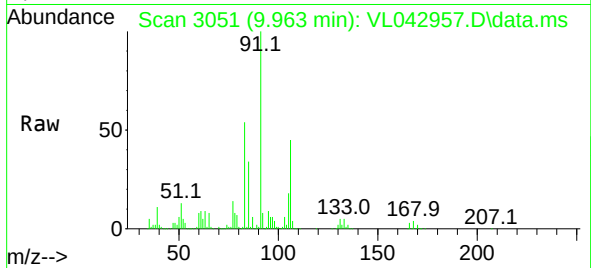
Tgt Ion:105 Resp: 802723
 Ion Ratio Lower Upper
 105 100
 120 26.0 20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 8.883 ppbv
RT: 9.963 min Scan# 3049
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

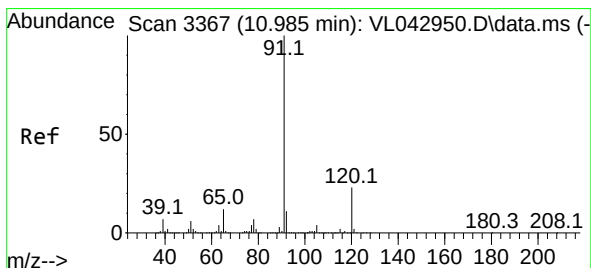
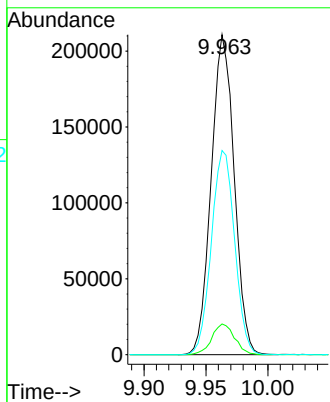
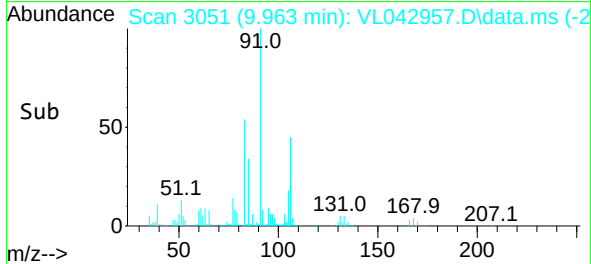
Instrument : MSVOA_L
ClientSampleId : ICVVL092225



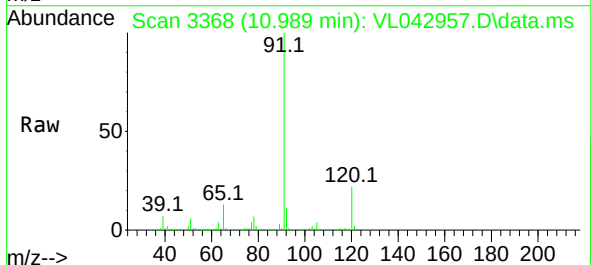
Tgt Ion: 83 Resp: 272410
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 64.7 32.2 96.6

Manual Integrations
APPROVED

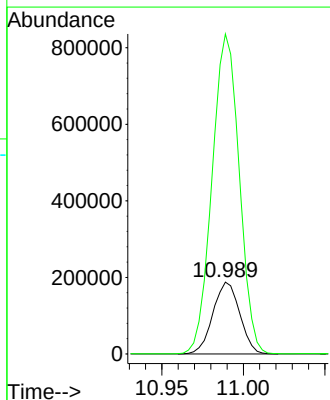
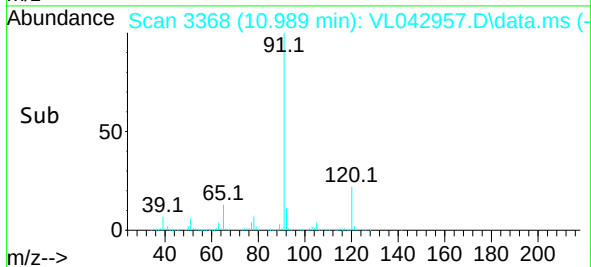
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

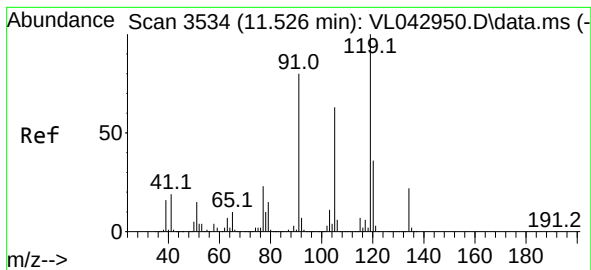


#64
n-propylbenzene
Concen: 9.433 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15



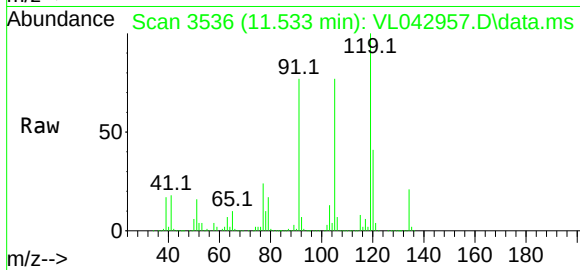
Tgt Ion:120 Resp: 214374
Ion Ratio Lower Upper
120 100
91 452.3 364.9 547.3





#65
tert-Butylbenzene
Concen: 9.196 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

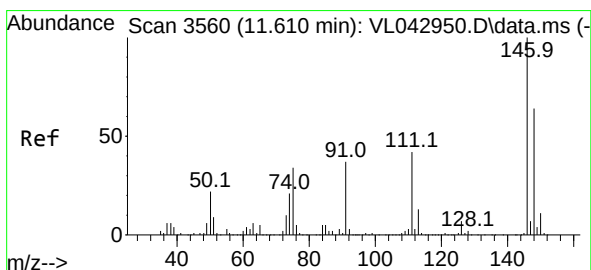
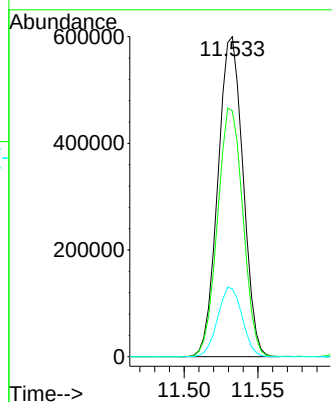
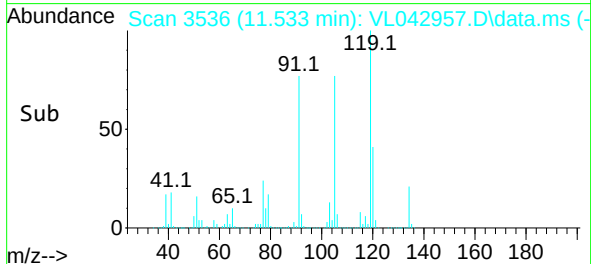
Instrument : MSVOA_L
ClientSampleId : ICVVL092225



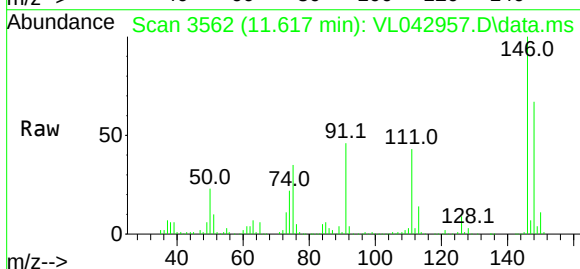
Tgt Ion: 119 Resp: 711319
Ion Ratio Lower Upper
119 100
91 78.3 63.1 94.7
134 21.1 17.0 25.6

Manual Integrations
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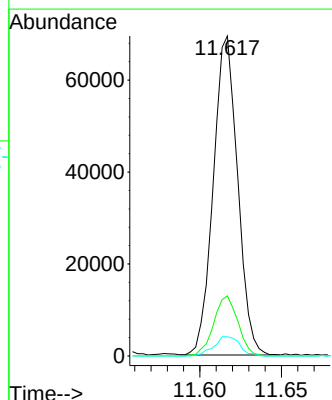
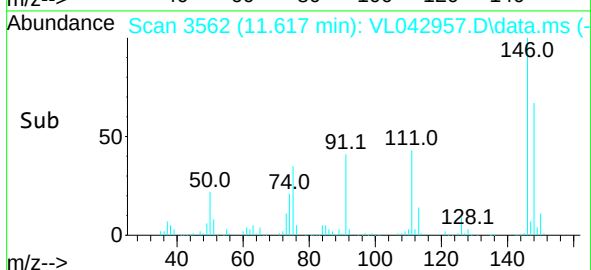
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

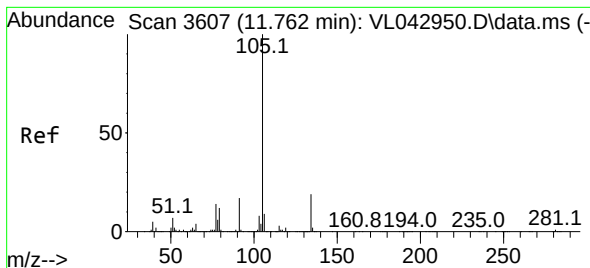


#66
Benzyl Chloride
Concen: 8.858 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15



Tgt Ion: 91 Resp: 71896
Ion Ratio Lower Upper
91 100
126 18.8 14.6 21.8
128 6.4 5.0 7.4





#67

sec-Butylbenzene

Concen: 9.235 ppbv

RT: 11.769 min Scan# 30

Delta R.T. 0.007 min

Lab File: VL042957.D

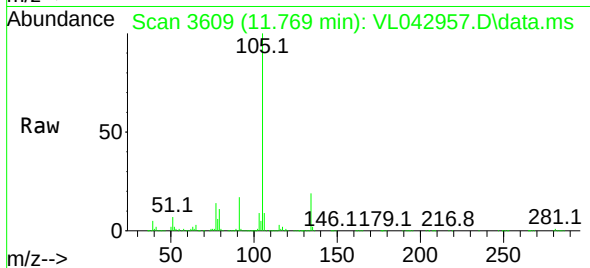
Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225



Tgt Ion:105 Resp: 99540

Ion Ratio Lower Upper

105 100

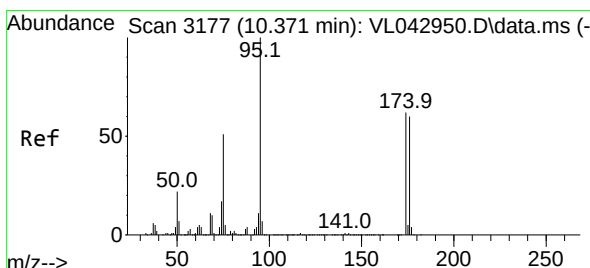
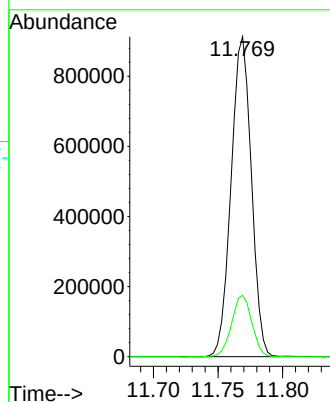
134 19.2 15.7 23.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.043 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.007 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

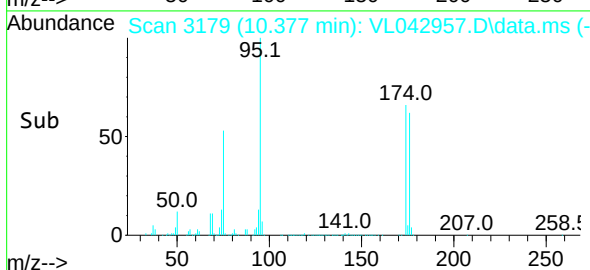
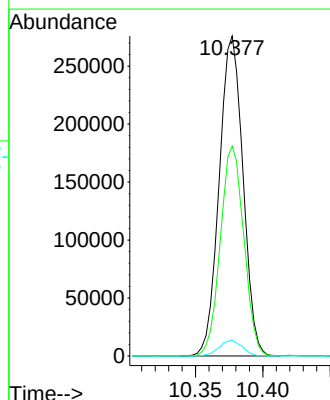
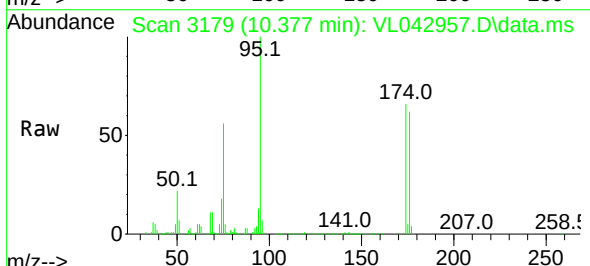
Tgt Ion: 95 Resp: 338071

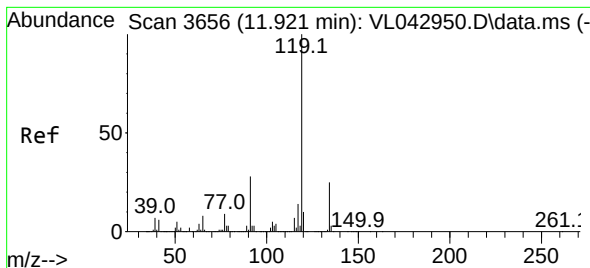
Ion Ratio Lower Upper

95 100

174 65.0 51.4 77.2

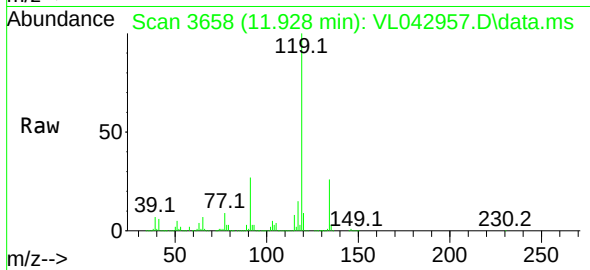
175 4.8 4.0 6.0





#69
p-Isopropyltoluene
Concen: 9.316 ppbv
RT: 11.928 min Scan# 3658
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

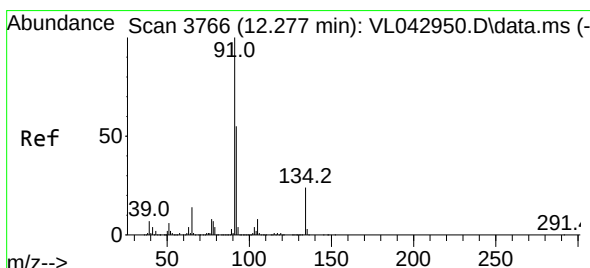
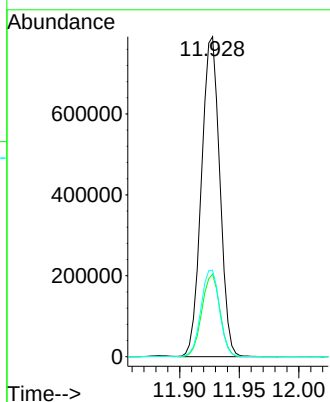
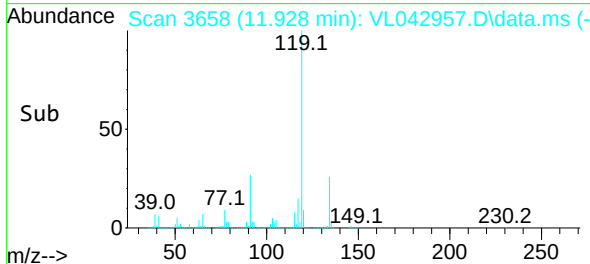
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225



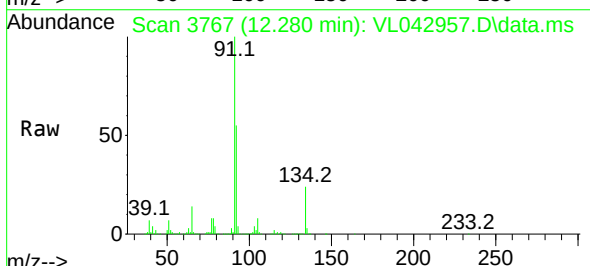
Tgt Ion:119 Resp: 848190
Ion Ratio Lower Upper
119 100
134 25.6 21.0 31.4
91 27.5 22.3 33.5

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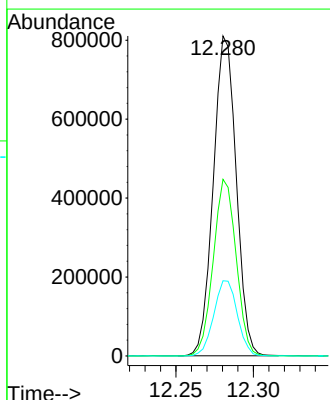
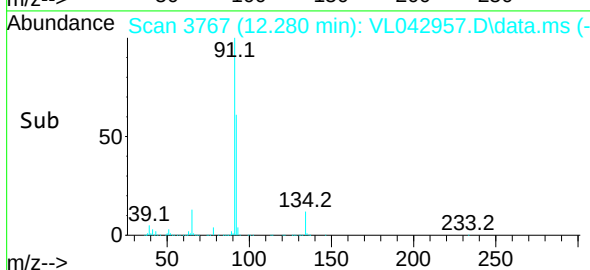
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

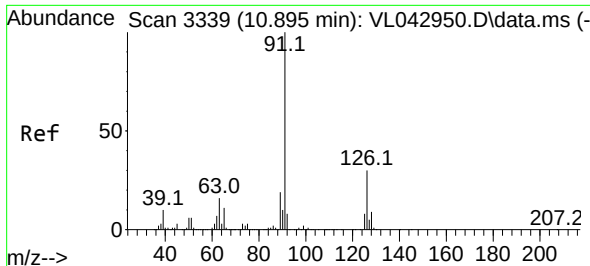


#70
n-Butylbenzene
Concen: 9.392 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15



Tgt Ion: 91 Resp: 834882
Ion Ratio Lower Upper
91 100
92 55.2 44.0 66.0
134 24.2 19.4 29.2





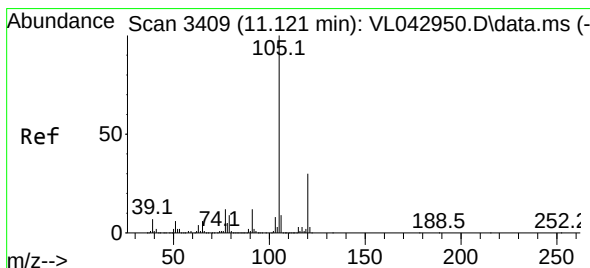
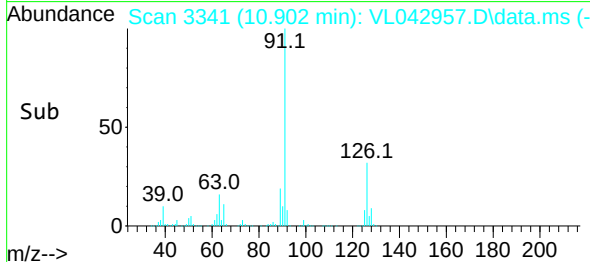
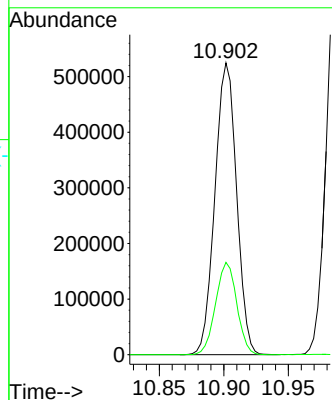
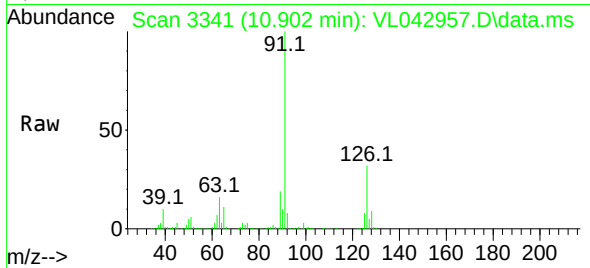
#71
2-Chlorotoluene
Concen: 9.315 ppbv
RT: 10.902 min Scan# 31
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Tgt Ion: 91 Resp: 61169
Ion Ratio Lower Upper
91 100
126 30.9 12.3 49.3

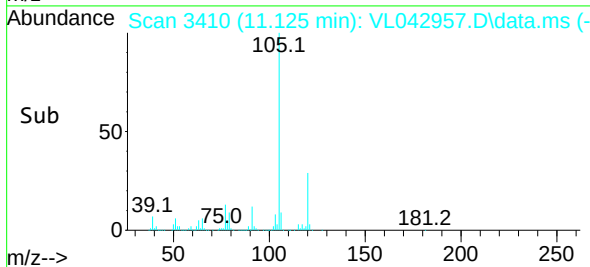
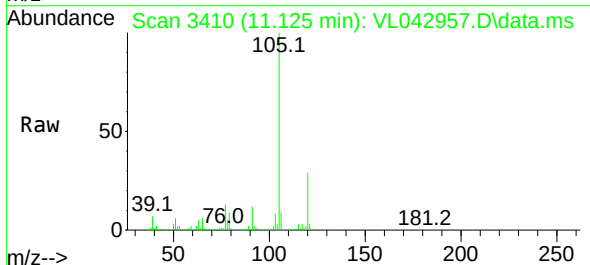
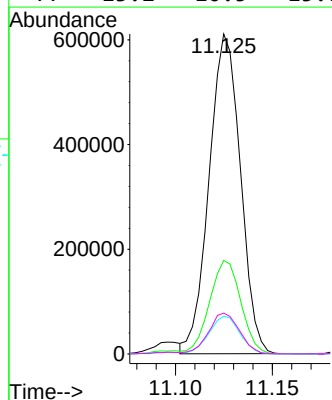
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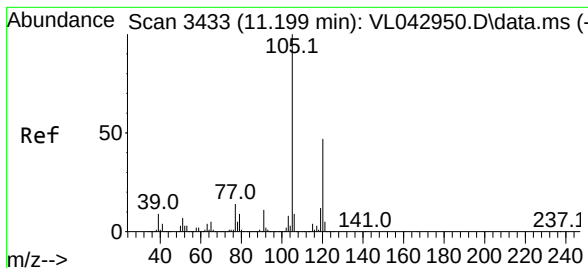
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#72
4-Ethyltoluene
Concen: 9.391 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

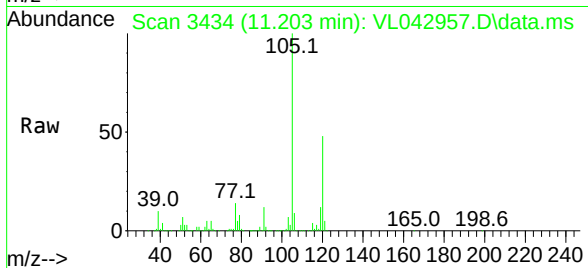
Tgt Ion:105 Resp: 686229
Ion Ratio Lower Upper
105 100
120 30.2 24.2 36.2
91 12.2 10.0 15.0
77 13.2 10.5 15.7





#73
1,3,5-Trimethylbenzene
Concen: 9.582 ppbv
RT: 11.203 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

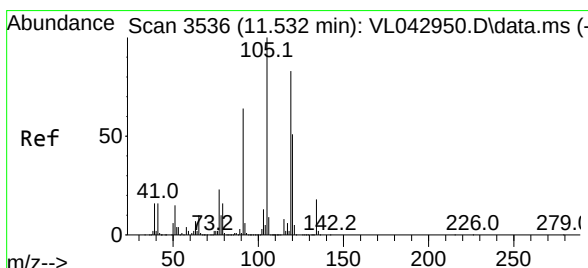
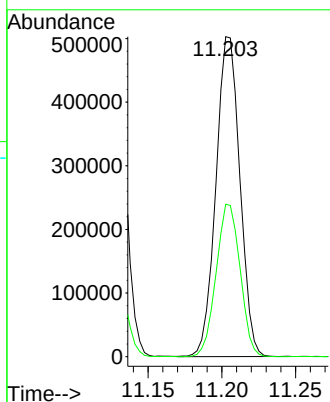
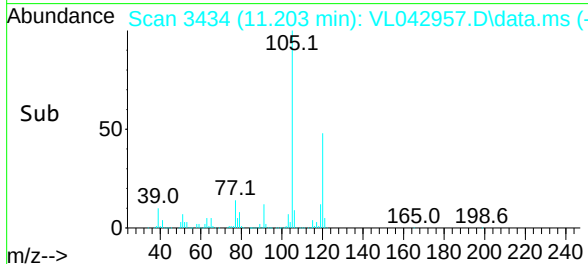
Instrument : MSVOA_L
ClientSampleId : ICVVL092225



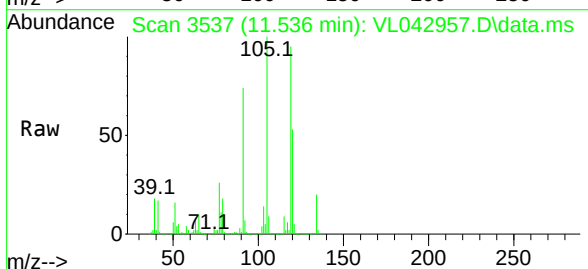
Tgt Ion:105 Resp: 567874
Ion Ratio Lower Upper
105 100
120 47.7 38.0 57.0

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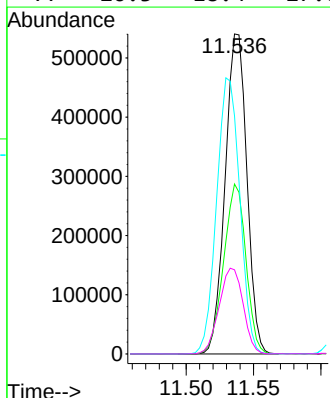
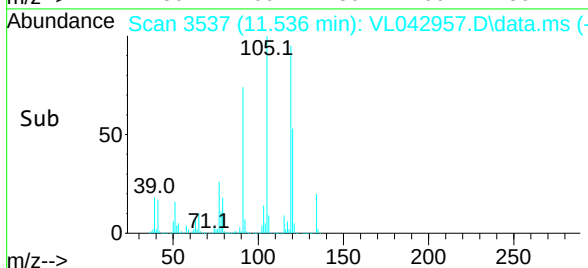
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

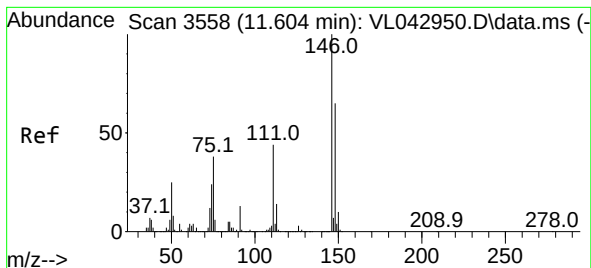


#74
1,2,4-Trimethylbenzene
Concen: 9.277 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15



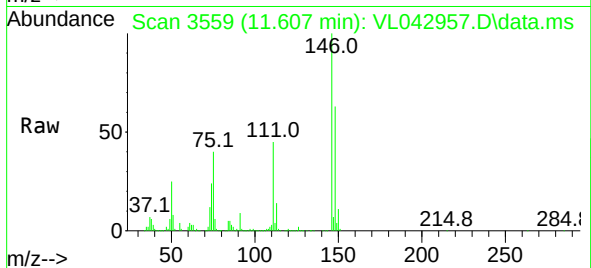
Tgt Ion:105 Resp: 607159
Ion Ratio Lower Upper
105 100
120 53.1 40.9 61.3
91 74.4 51.2 76.8
77 26.3 18.4 27.6





#75
1,3-Dichlorobenzene
Concen: 9.382 ppbv
RT: 11.607 min Scan# 3558
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

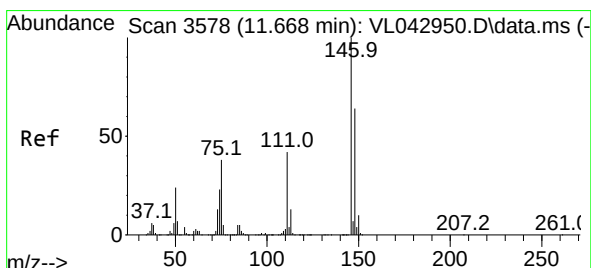
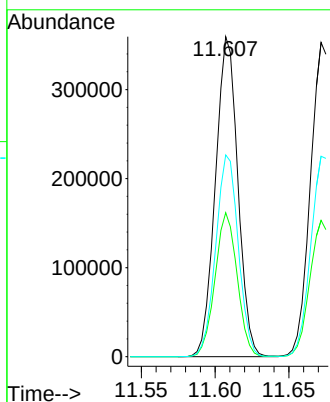
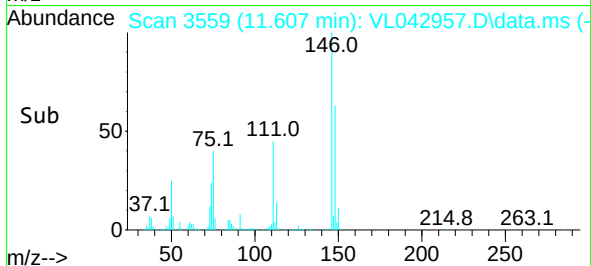
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225



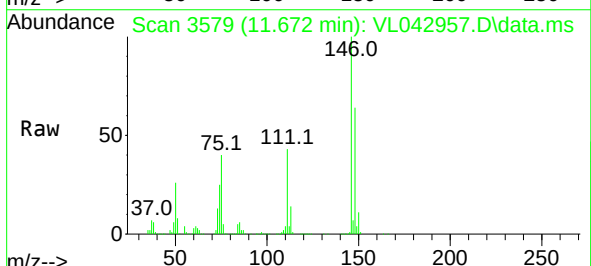
Tgt Ion:146 Resp: 38082
Ion Ratio Lower Upper
146 100
111 44.5 22.3 66.9
148 63.5 31.9 95.5

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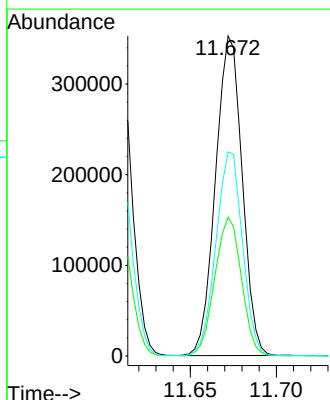
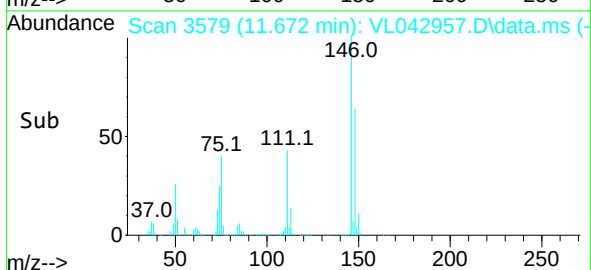
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

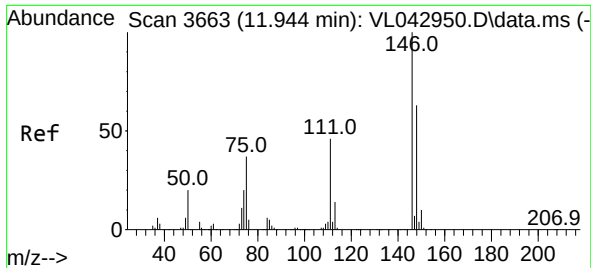


#76
1,4-Dichlorobenzene
Concen: 9.429 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15



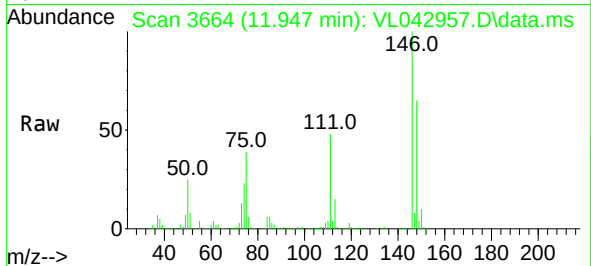
Tgt Ion:146 Resp: 380109
Ion Ratio Lower Upper
146 100
111 43.5 21.5 64.5
148 64.0 31.9 95.5





#77
1,2-Dichlorobenzene
Concen: 9.322 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

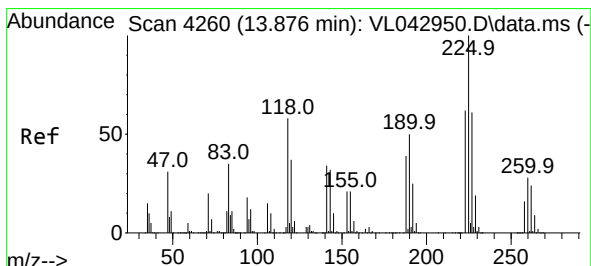
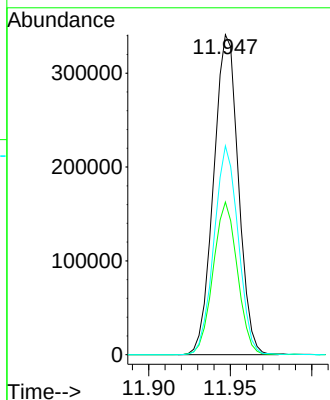
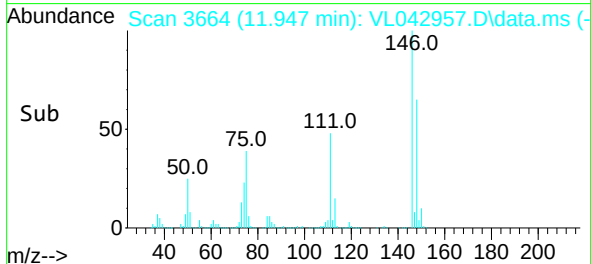
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225



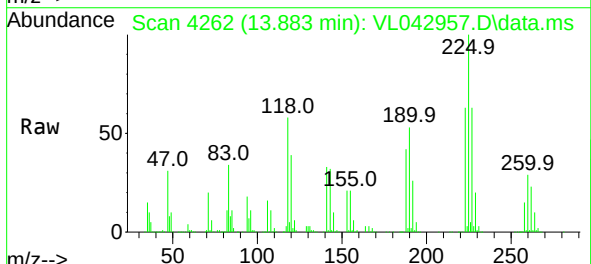
Tgt Ion:146 Resp: 359998
Ion Ratio Lower Upper
146 100
111 46.7 23.1 69.3
148 63.9 32.0 96.0

Manual Integrations
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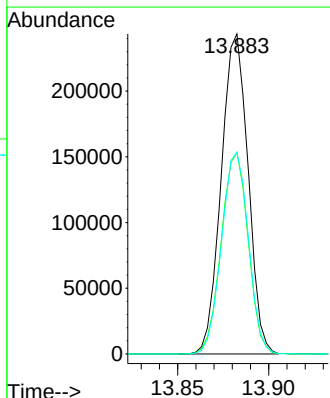
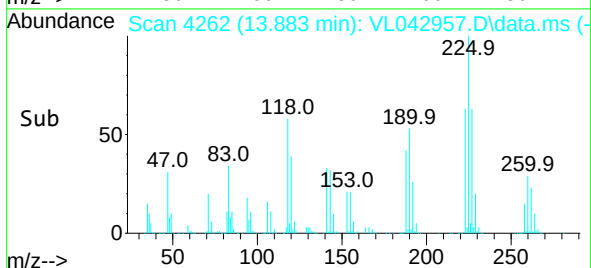
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

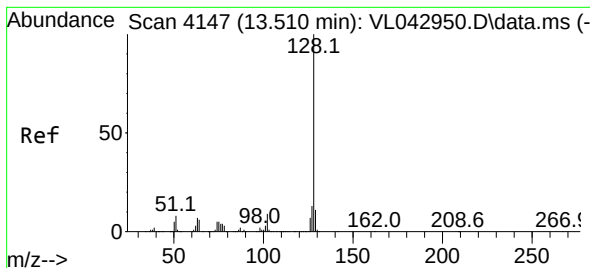


#78
Hexachloro-1,3-Butadiene
Concen: 8.248 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15



Tgt Ion:225 Resp: 249142
Ion Ratio Lower Upper
225 100
223 63.0 50.1 75.1
227 63.0 50.4 75.6





#79

Naphthalene

Concen: 10.208 ppbv

RT: 13.514 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL042957.D

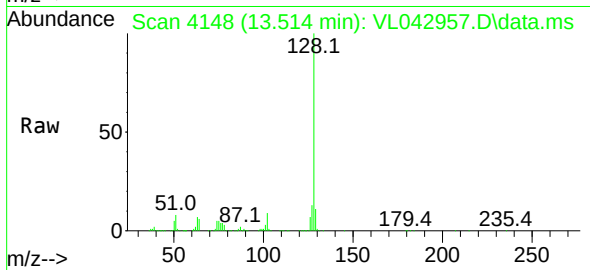
Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225



Tgt Ion:128 Resp: 590759

Ion Ratio Lower Upper

128 100

127 13.1 10.6 15.8

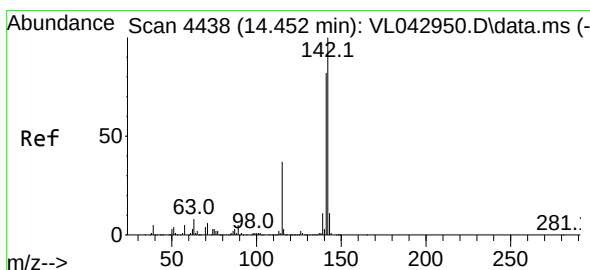
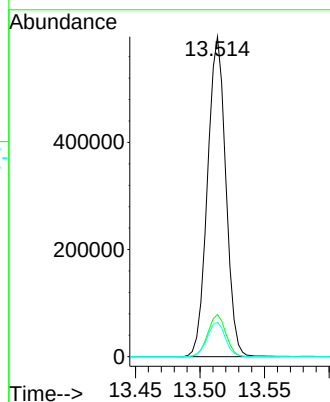
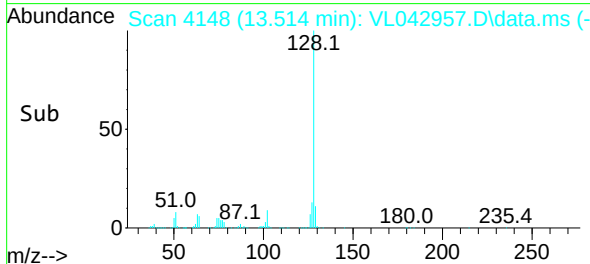
129 10.7 9.0 13.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#80

Naphthalene,2-methyl-

Concen: 9.678 ppbv

RT: 14.459 min Scan# 4440

Delta R.T. 0.007 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

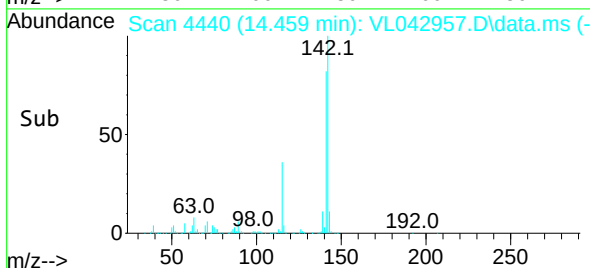
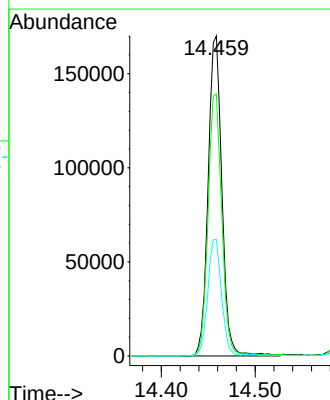
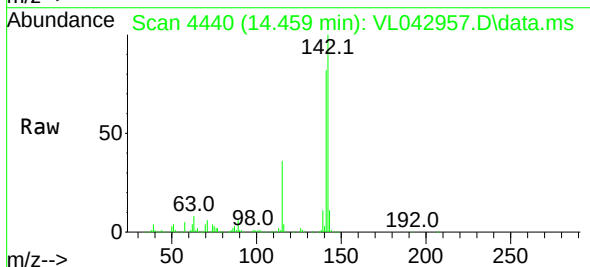
Tgt Ion:142 Resp: 173023

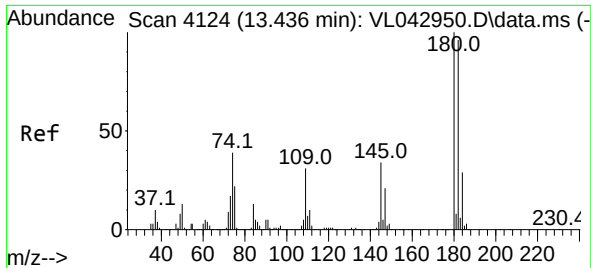
Ion Ratio Lower Upper

142 100

141 82.7 65.1 97.7

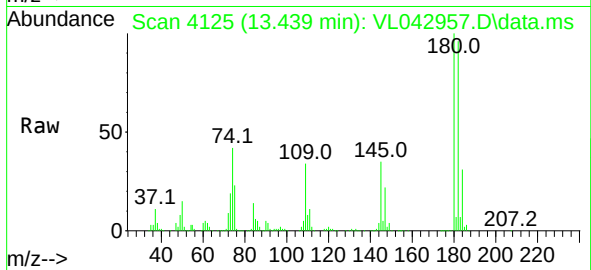
115 37.5 28.9 43.3





#81
 1,2,4-Trichlorobenzene
 Concen: 9.845 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

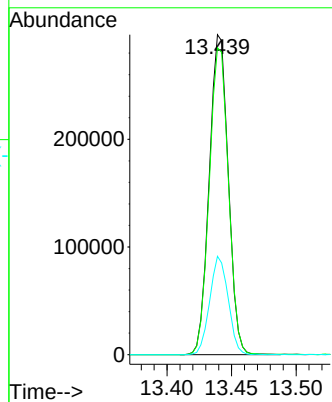
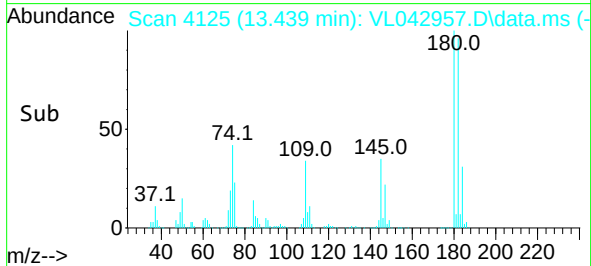
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225



Tgt Ion:180 Resp: 30464
 Ion Ratio Lower Upper
 180 100
 182 97.0 75.7 113.5
 184 29.9 23.9 35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Quant Time: Sep 23 02:49:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	94	0.00
2 T	Dichlorodifluoromethane	1.345	1.238	8.0	93	0.00
3	Chlorodifluoromethane	1.676	1.544	7.9	92	0.00
4	Chloromethane	0.609	0.538	11.7	90	0.00
5 T	Vinyl Chloride	0.550	0.468	14.9	93	0.00
6 T	Bromomethane	0.194	0.166	14.4	94	0.00
7	Chloroethane	0.214	0.190	11.2	91	0.00
8 T	Dichlorotetrafluoroethane	1.148	1.028	10.5	92	0.00
9 T	Propene	0.729	0.662	9.2	91	0.00
10 T	Heptane	1.946	1.779	8.6	89	0.01
11 T	Trichlorofluoromethane	1.297	1.188	8.4	93	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.050	0.947	9.8	92	0.00
13	Ethanol	0.071	0.041#	42.3#	73	0.00
14 T	Bromoethene	0.397	0.349	12.1	90	0.00
15 T	Acetone	1.302	0.984	24.4	93	0.00
16 T	1,3-Butadiene	0.614	0.506	17.6	91	0.00
17	tert-Butyl alcohol	1.429	1.292	9.6	89	0.00
18 T	1,1-Dichloroethene	0.486	0.433	10.9	91	0.00
19 T	Isopropyl Alcohol	0.783	0.677	13.5	88	0.00
20 T	Methylene Chloride	0.545	0.386	29.2	93	0.00
21 T	Allyl Chloride	0.907	0.831	8.4	91	0.00
22 T	trans-1,2-Dichloroethene	0.552	0.489	11.4	90	0.00
23 T	Vinyl Acetate	1.861	1.754	5.7	103	0.00
24 T	1,1-Dichloroethane	1.083	0.975	10.0	92	0.00
25 T	Ethyl Acetate	3.292	3.047	7.4	90	0.00
26 T	Hexane	1.501	1.354	9.8	91	0.00
27 T	Carbon Disulfide	1.346	1.228	8.8	90	0.00
28 T	Methyl tert-Butyl Ether	0.780	0.761	2.4	112	0.00
29 T	Chloroform	1.962	1.880	4.2	95	0.00
30 T	Cyclohexane	1.255	1.165	7.2	91	0.00
31 T	cis-1,2-Dichloroethene	1.406	1.335	5.0	92	0.00
32 T	1,1,1-Trichloroethane	2.119	1.922	9.3	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
34 T	2-Butanone	0.701	0.636	9.3	91	0.00
35 T	Carbon Tetrachloride	0.651	0.617	5.2	95	0.00
36 T	Benzene	0.939	0.884	5.9	92	0.00
37 T	1,2-Dichloroethane	0.494	0.473	4.3	94	0.00
38 T	Trichloroethene	0.467	0.417	10.7	91	0.00
39 T	1,2-Dichloropropane	0.343	0.325	5.2	93	0.00
40 T	1,4-Dioxane	0.159	0.141	11.3	89	0.00
41 T	Tetrahydrofuran	0.403	0.374	7.2	90	0.00
42 T	Bromodichloromethane	0.688	0.669	2.8	92	0.00
43	Methyl Methacrylate	0.384	0.351	8.6	89	0.00
44 T	2,2,4-Trimethylpentane	1.622	1.499	7.6	90	0.00
45 T	t-1,3-Dichloropropene	0.410	0.382	6.8	88	0.00
46 T	cis-1,3-Dichloropropene	0.522	0.496	5.0	89	0.01
47 T	1,1,2-Trichloroethane	0.362	0.336	7.2	91	0.00
48 T	Dibromochloromethane	0.580	0.564	2.8	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Quant Time: Sep 23 02:49:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	0.504	0.483	4.2	89	0.00
50 T	4-Methyl-2-Pentanone	0.939	0.884	5.9	89	0.00
51 T	2-Hexanone	0.749	0.716	4.4	89	0.00
52 T	Tetrachloroethene	0.363	0.315	13.2	91	0.00
53 T	Toluene	1.111	1.034	6.9	90	0.00
54 T	1,2-Dibromoethane	0.510	0.482	5.5	92	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	0.479	0.456	4.8	92	0.00
57 T	Chlorobenzene	0.913	0.841	7.9	91	0.00
58 T	Ethyl Benzene	1.642	1.548	5.7	91	0.00
59 T	m/p-Xylene	1.295	1.211	6.5	92	0.03
60 T	o-Xylene	1.294	1.195	7.7	91	0.00
61 T	Styrene	0.612	0.586	4.2	90	0.00
62	Isopropylbenzene	1.929	1.780	7.7	91	0.00
63 T	1,1,2,2-Tetrachloroethane	0.680	0.604	11.2	92	0.00
64	n-propylbenzene	0.504	0.475	5.8	93	0.00
65	tert-Butylbenzene	1.715	1.577	8.0	94	0.00
66 T	Benzyl Chloride	0.180	0.159	11.7	76	0.00
67	sec-Butylbenzene	2.390	2.207	7.7	93	0.00
68 S	1-Bromo-4-Fluorobenzene	0.746	0.750	-0.5	91	0.00
69	p-Isopropyltoluene	2.019	1.881	6.8	94	0.00
70	n-Butylbenzene	1.971	1.851	6.1	91	0.00
71	2-Chlorotoluene	1.456	1.357	6.8	92	0.00
72 T	4-Ethyltoluene	1.621	1.522	6.1	93	0.00
73 T	1,3,5-Trimethylbenzene	1.314	1.259	4.2	92	0.00
74 T	1,2,4-Trimethylbenzene	1.451	1.346	7.2	92	0.00
75 T	1,3-Dichlorobenzene	0.900	0.845	6.1	93	0.00
76 T	1,4-Dichlorobenzene	0.894	0.843	5.7	92	0.00
77 T	1,2-Dichlorobenzene	0.856	0.798	6.8	93	0.00
78 T	Hexachloro-1,3-Butadiene	0.670	0.553	17.5	89	0.00
79 T	Naphthalene	1.283	1.310	-2.1	88	0.00
80 T	Naphthalene,2-methyl-	0.396	0.384	3.0	88	0.00
81 T	1,2,4-Trichlorobenzene	0.686	0.676	1.5	87	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Quant Time: Sep 23 02:49:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	94	0.00
2 T	Dichlorodifluoromethane	10.000	9.204	8.0	93	0.00
3	Chlorodifluoromethane	10.000	9.213	7.9	92	0.00
4	Chloromethane	10.000	8.831	11.7	90	0.00
5 T	Vinyl Chloride	10.000	8.506	14.9	93	0.00
6 T	Bromomethane	10.000	8.529	14.7	94	0.00
7	Chloroethane	10.000	8.894	11.1	91	0.00
8 T	Dichlorotetrafluoroethane	10.000	8.951	10.5	92	0.00
9 T	Propene	10.000	9.079	9.2	91	0.00
10 T	Heptane	10.000	9.141	8.6	89	0.01
11 T	Trichlorofluoromethane	10.000	9.157	8.4	93	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.020	9.8	92	0.00
13	Ethanol	10.000	5.842	41.6#	73	0.00
14 T	Bromoethene	10.000	8.785	12.1	90	0.00
15 T	Acetone	10.000	7.557	24.4	93	0.00
16 T	1,3-Butadiene	10.000	8.234	17.7	91	0.00
17	tert-Butyl alcohol	10.000	9.043	9.6	89	0.00
18 T	1,1-Dichloroethene	10.000	8.904	11.0	91	0.00
19 T	Isopropyl Alcohol	10.000	8.644	13.6	88	0.00
20 T	Methylene Chloride	10.000	9.945	0.5	93	0.00
21 T	Allyl Chloride	10.000	9.166	8.3	91	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.845	11.5	90	0.00
23 T	Vinyl Acetate	10.000	9.427	5.7	103	0.00
24 T	1,1-Dichloroethane	10.000	9.003	10.0	92	0.00
25 T	Ethyl Acetate	10.000	9.256	7.4	90	0.00
26 T	Hexane	10.000	9.026	9.7	91	0.00
27 T	Carbon Disulfide	10.000	9.121	8.8	90	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.752	2.5	112	0.00
29 T	Chloroform	10.000	9.583	4.2	95	0.00
30 T	Cyclohexane	10.000	9.286	7.1	91	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.497	5.0	92	0.00
32 T	1,1,1-Trichloroethane	10.000	9.071	9.3	95	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	94	0.00
34 T	2-Butanone	10.000	9.081	9.2	91	0.00
35 T	Carbon Tetrachloride	10.000	9.479	5.2	95	0.00
36 T	Benzene	10.000	9.416	5.8	92	0.00
37 T	1,2-Dichloroethane	10.000	9.581	4.2	94	0.00
38 T	Trichloroethene	10.000	8.927	10.7	91	0.00
39 T	1,2-Dichloropropane	10.000	9.482	5.2	93	0.00
40 T	1,4-Dioxane	10.000	8.863	11.4	89	0.00
41 T	Tetrahydrofuran	10.000	9.277	7.2	90	0.00
42 T	Bromodichloromethane	10.000	9.721	2.8	92	0.00
43	Methyl Methacrylate	10.000	9.125	8.8	89	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.239	7.6	90	0.00
45 T	t-1,3-Dichloropropene	10.000	9.321	6.8	88	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.490	5.1	89	0.01
47 T	1,1,2-Trichloroethane	10.000	9.279	7.2	91	0.00
48 T	Dibromochloromethane	10.000	9.732	2.7	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Quant Time: Sep 23 02:49:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	Amount	Calc.	%Dev	Area%	Dev(min)

49 T	Bromoform	10.000	9.589	4.1	89	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.411	5.9	89	0.00
51 T	2-Hexanone	10.000	9.561	4.4	89	0.00
52 T	Tetrachloroethene	10.000	8.678	13.2	91	0.00
53 T	Toluene	10.000	9.306	6.9	90	0.00
54 T	1,2-Dibromoethane	10.000	9.452	5.5	92	0.00

55 I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.536	4.6	92	0.00
57 T	Chlorobenzene	10.000	9.209	7.9	91	0.00
58 T	Ethyl Benzene	10.000	9.428	5.7	91	0.00
59 T	m/p-Xylene	20.000	18.715	6.4	92	0.03
60 T	o-Xylene	10.000	9.236	7.6	91	0.00
61 T	Styrene	10.000	9.575	4.3	90	0.00
62	Isopropylbenzene	10.000	9.230	7.7	91	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.883	11.2	92	0.00
64	n-propylbenzene	10.000	9.433	5.7	93	0.00
65	tert-Butylbenzene	10.000	9.196	8.0	94	0.00
66 T	Benzyl Chloride	10.000	8.858	11.4	76	0.00
67	sec-Butylbenzene	10.000	9.235	7.7	93	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.043	-0.4	91	0.00
69	p-Isopropyltoluene	10.000	9.316	6.8	94	0.00
70	n-Butylbenzene	10.000	9.392	6.1	91	0.00
71	2-Chlorotoluene	10.000	9.315	6.9	92	0.00
72 T	4-Ethyltoluene	10.000	9.391	6.1	93	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.582	4.2	92	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.277	7.2	92	0.00
75 T	1,3-Dichlorobenzene	10.000	9.382	6.2	93	0.00
76 T	1,4-Dichlorobenzene	10.000	9.429	5.7	92	0.00
77 T	1,2-Dichlorobenzene	10.000	9.322	6.8	93	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.248	17.5	89	0.00
79 T	Naphthalene	10.000	10.208	-2.1	88	0.00
80 T	Naphthalene,2-methyl-	10.000	9.678	3.2	88	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.845	1.5	87	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



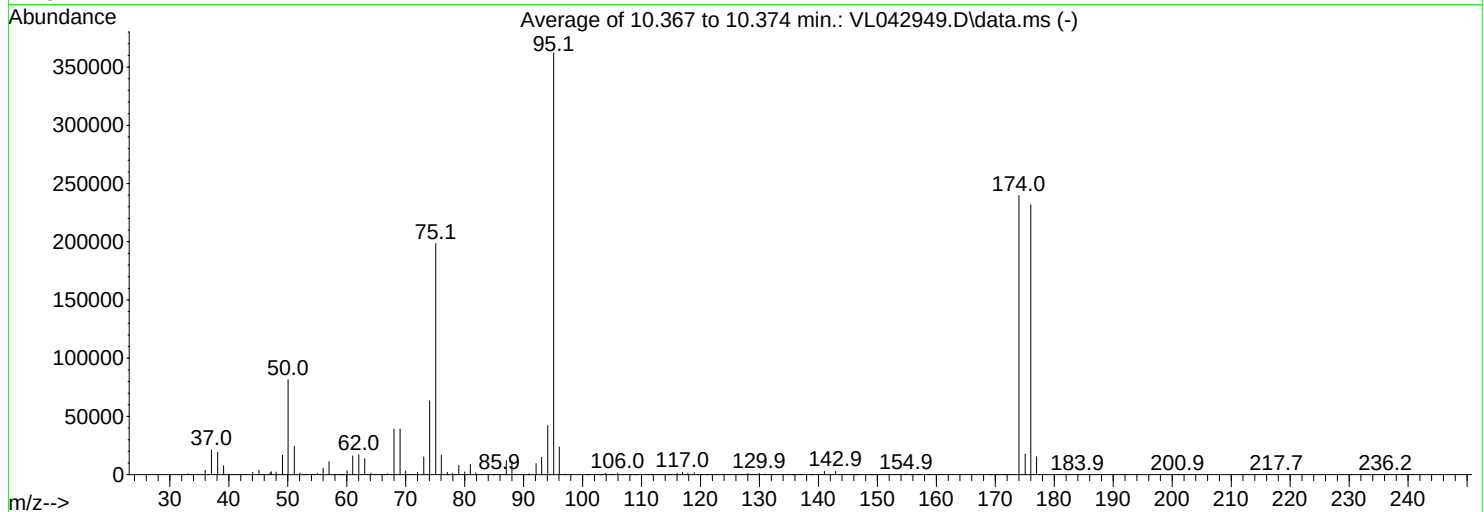
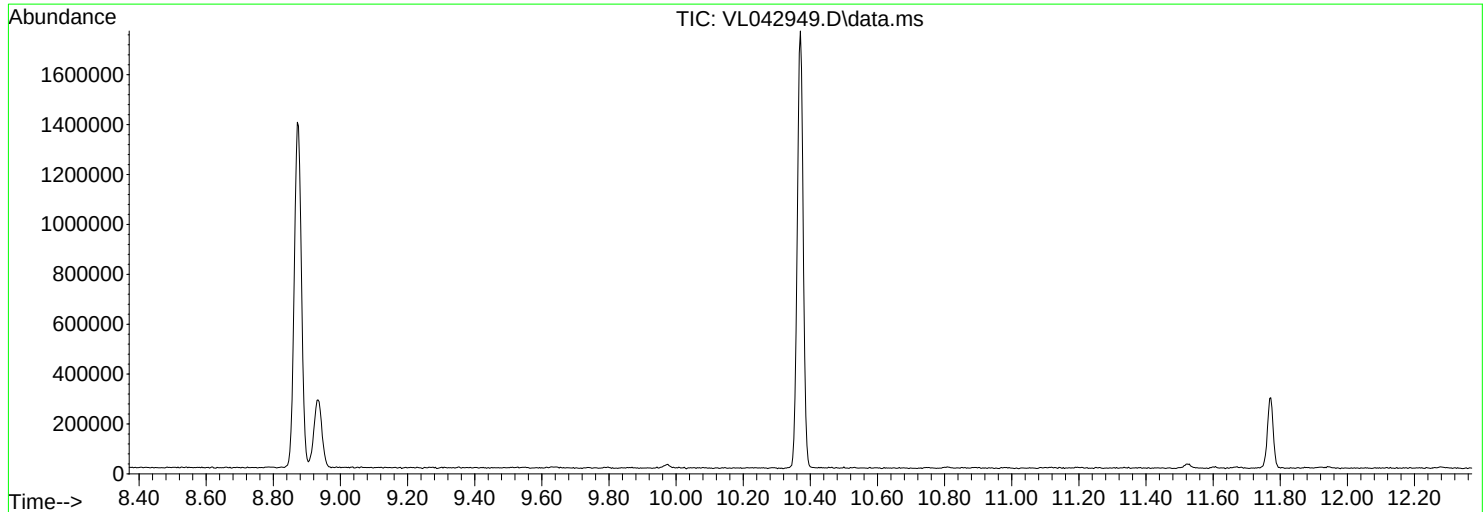
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042949.D
Acq On : 22 Sep 2025 08:55
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\VL092225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Sep 23 02:39:16 2025



AutoFind: Scans 3176, 3177, 3178; Background Corrected with Scan 3156

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.5	81605	PASS
75	95	30	66	54.7	198315	PASS
95	95	100	100	100.0	362228	PASS
96	95	5	9	6.6	23817	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	66.2	239765	PASS
175	174	4	9	7.4	17693	PASS
176	174	93	101	96.6	231701	PASS
177	176	5	9	6.6	15367	PASS

Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	VL0922ABL01	SDG No.:	Q3132
Lab Sample ID:	VL0922ABL01	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
VL042958.D	1		09/22/25 15:06	VL092225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
TARGETS						
75-71-8	Dichlorodifluoromethane	0.11	0.54	U	0.54	2.47
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32
109-99-9	Tetrahydrofuran	0.080	0.24	U	0.24	1.47
75-69-4	Trichlorofluoromethane	0.17	0.96	U	0.96	2.81
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52
142-82-5	Heptane	0.17	0.70	U	0.70	2.05
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98
67-64-1	Acetone	0.18	0.43	U	0.43	1.19
75-15-0	Carbon Disulfide	0.080	0.25	U	0.25	1.56
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80
75-09-2	Methylene Chloride	0.23	0.80	U	0.80	1.74
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72
78-93-3	2-Butanone	0.060	0.18	U	0.18	1.47
56-23-5	Carbon Tetrachloride	0.030	0.19	U	0.19	0.19
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98
67-66-3	Chloroform	0.10	0.49	U	0.49	2.44
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34
71-43-2	Benzene	0.080	0.26	U	0.26	1.60
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05
108-88-3	Toluene	0.16	0.60	U	0.60	1.88
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73

Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	VL0922ABL01	SDG No.:	Q3132
Lab Sample ID:	VL0922ABL01	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
VL042958.D	1		09/22/25 15:06	VL092225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17
100-42-5	Styrene	0.16	0.68	U	0.68	2.13
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46
110-54-3	Hexane	0.16	0.56	U	0.56	1.76
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05
SURROGATES						
460-00-4	1-Bromo-4-Fluorobenzene	10.0			70 (65) - 130 (135)	100% SPK: 10
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	157000		2.787		
540-36-3	1,4-Difluorobenzene	497000		3.959		
3114-55-4	Chlorobenzene-d5	444000		8.882		

Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	VL0922ABL01	SDG No.:	Q3132
Lab Sample ID:	VL0922ABL01	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
VL042958.D	1		09/22/25 15:06	VL092225

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

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\VL092225\
 Data File : VL042958.D
 Acq On : 22 Sep 2025 15:06
 Operator : SY/MD
 Sample : VL0922ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0922ABL01

Quant Time: Sep 23 02:50:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	157278	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	497068	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	444461	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.377	95	332703	10.028	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%

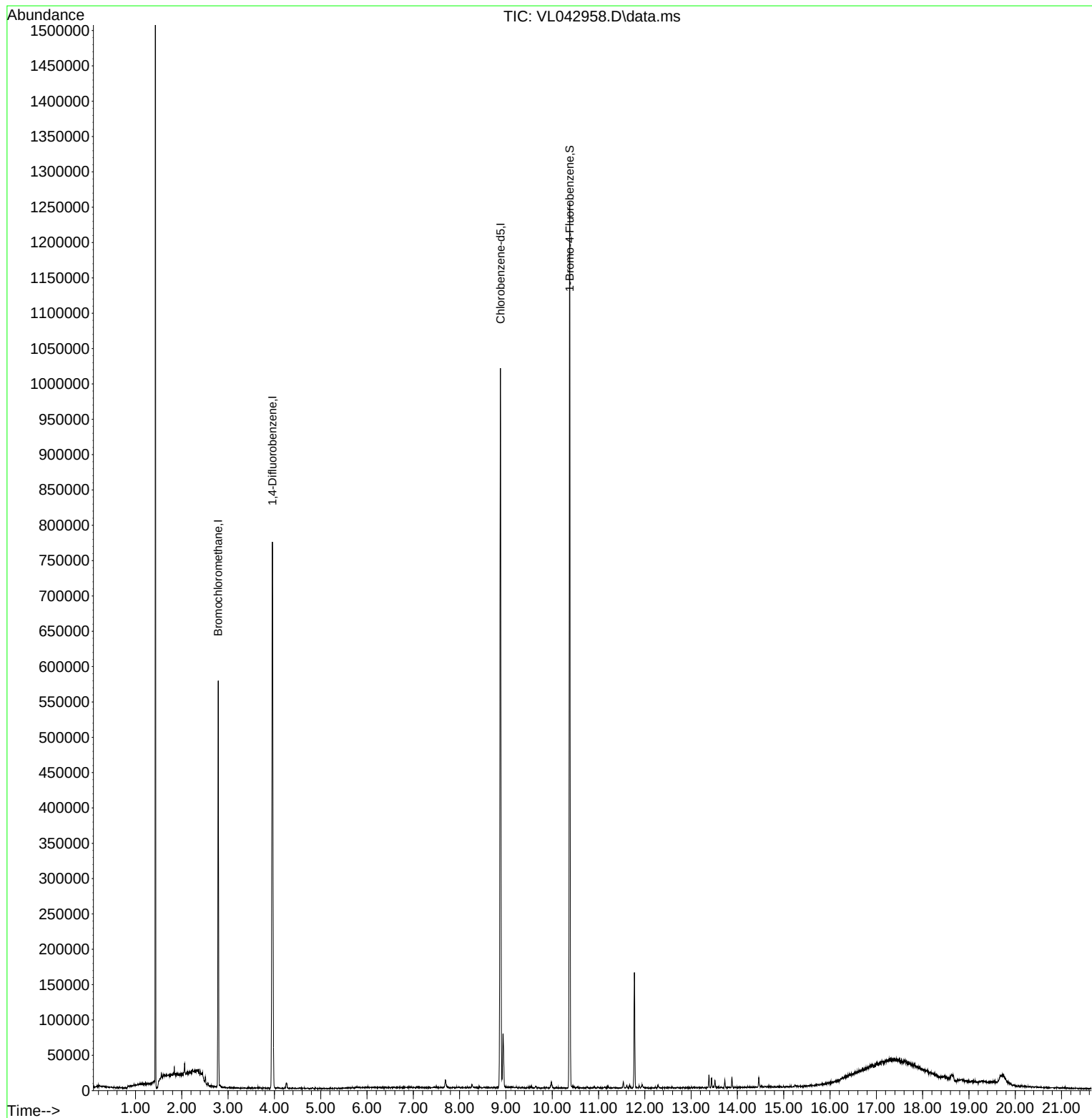
Target Compounds	Qvalue

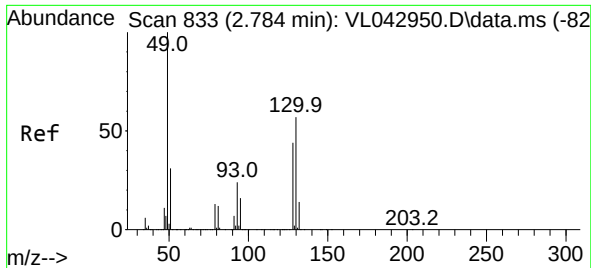
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042958.D
Acq On : 22 Sep 2025 15:06
Operator : SY/MD
Sample : VL0922ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0922ABL01

Quant Time: Sep 23 02:50:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

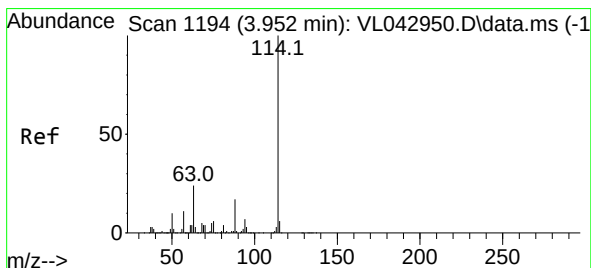
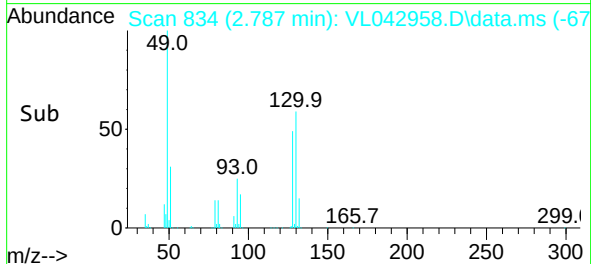
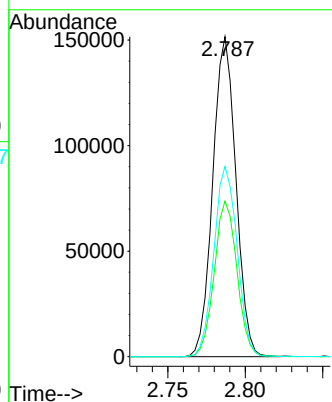
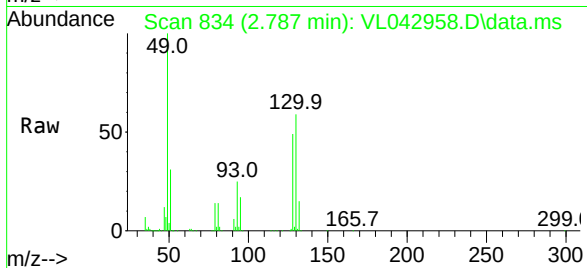




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042958.D
Acq: 22 Sep 2025 15:06

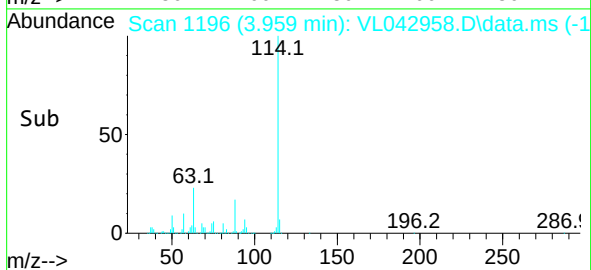
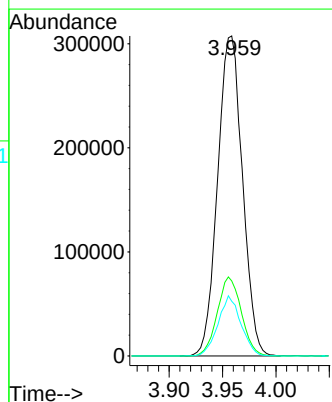
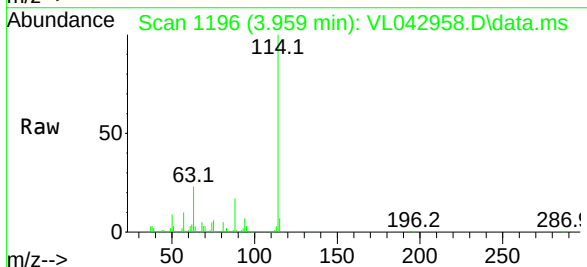
Instrument :
MSVOA_1
ClientSampleId :
VL0922ABL01

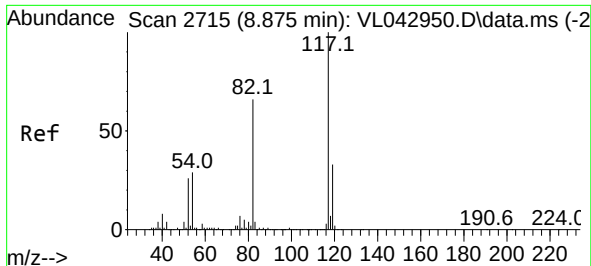
Tgt Ion: 49 Resp: 157278
Ion Ratio Lower Upper
49 100
128 48.0 22.9 68.8
130 60.1 29.1 87.3



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042958.D
Acq: 22 Sep 2025 15:06

Tgt Ion: 114 Resp: 497068
Ion Ratio Lower Upper
114 100
63 23.9 19.4 29.2
88 17.3 14.2 21.2

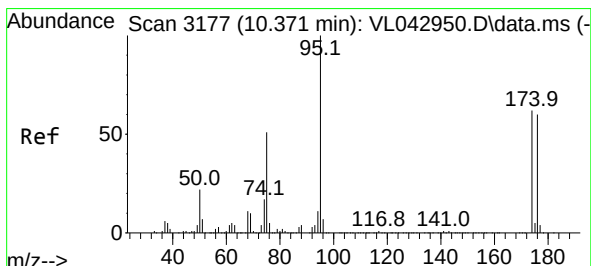
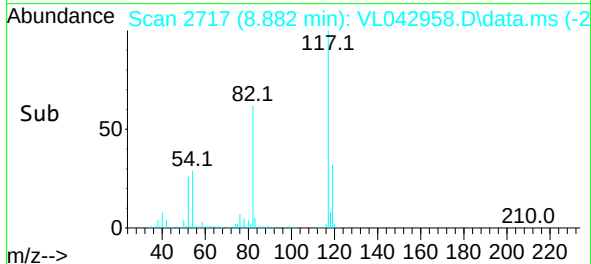
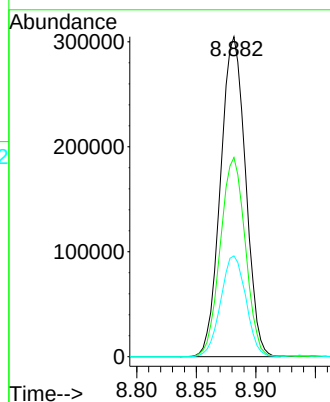
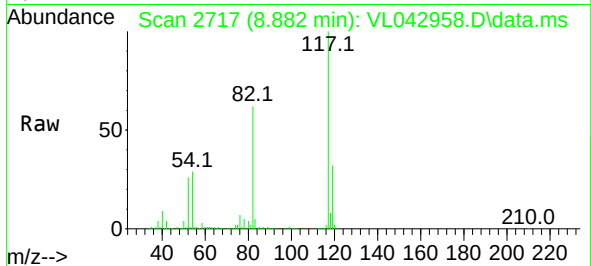




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042958.D
Acq: 22 Sep 2025 15:06

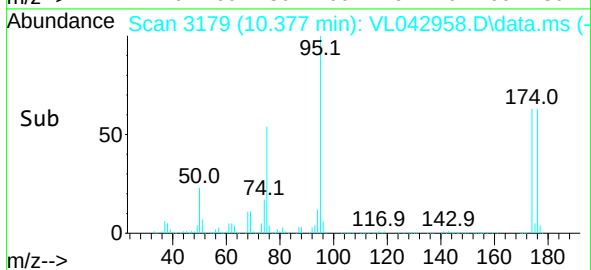
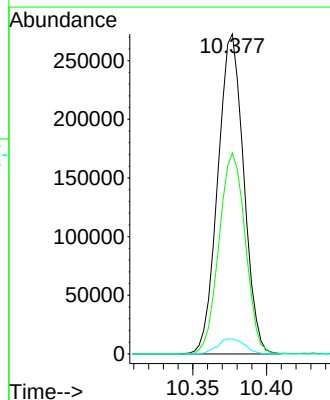
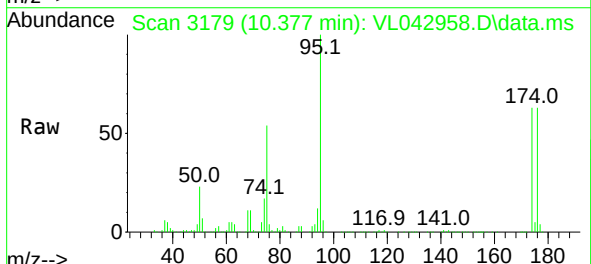
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABL01

Tgt Ion:117 Resp: 444461
Ion Ratio Lower Upper
117 100
82 62.4 52.8 79.2
119 31.8 26.5 39.7



#68
1-Bromo-4-Fluorobenzene
Concen: 10.028 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042958.D
Acq: 22 Sep 2025 15:06

Tgt Ion: 95 Resp: 332703
Ion Ratio Lower Upper
95 100
174 64.0 51.4 77.2
175 5.0 4.0 6.0



Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	VL0922ABS01	SDG No.:	Q3132
Lab Sample ID:	VL0922ABS01	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
VL042959.D	1		09/22/25 15:52	VL092225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
TARGETS						
75-71-8	Dichlorodifluoromethane	9.30	46.0		0.54	2.47
74-87-3	Chloromethane	8.70	18.0		0.21	1.03
75-01-4	Vinyl Chloride	8.40	21.5		0.080	0.080
74-83-9	Bromomethane	8.30	32.2		0.31	1.94
75-00-3	Chloroethane	8.80	23.2		0.40	1.32
109-99-9	Tetrahydrofuran	9.30	27.4		0.24	1.47
75-69-4	Trichlorofluoromethane	9.10	51.1		0.96	2.81
76-13-1	1,1,2-Trichlorotrifluoroethane	9.00	69.0		1.07	3.83
76-14-2	Dichlorotetrafluoroethane	9.00	62.9		1.05	3.49
75-65-0	tert-Butyl alcohol	9.00	27.3		0.49	1.52
142-82-5	Heptane	9.00	36.9		0.70	2.05
75-35-4	1,1-Dichloroethene	9.00	35.7		0.59	1.98
67-64-1	Acetone	7.40	17.6		0.43	1.19
75-15-0	Carbon Disulfide	8.80	27.4		0.25	1.56
1634-04-4	Methyl tert-Butyl Ether	7.80	28.1		0.83	1.80
75-09-2	Methylene Chloride	9.80	34.0		0.80	1.74
156-60-5	trans-1,2-Dichloroethene	8.90	35.3		0.48	1.98
75-34-3	1,1-Dichloroethane	9.00	36.4		0.53	2.02
110-82-7	Cyclohexane	9.30	32.0		0.76	1.72
78-93-3	2-Butanone	9.20	27.1		0.18	1.47
56-23-5	Carbon Tetrachloride	9.70	61.0		0.19	0.19
156-59-2	cis-1,2-Dichloroethene	9.30	36.9		0.40	1.98
67-66-3	Chloroform	9.50	46.4		0.49	2.44
71-55-6	1,1,1-Trichloroethane	9.00	49.1		0.11	0.16
540-84-1	2,2,4-Trimethylpentane	9.40	43.9		0.65	2.34
71-43-2	Benzene	9.60	30.7		0.26	1.60
107-06-2	1,2-Dichloroethane	9.90	40.1		0.36	2.02
79-01-6	Trichloroethene	9.20	49.4		0.11	0.16
78-87-5	1,2-Dichloropropane	9.70	44.8		0.60	2.31
75-27-4	Bromodichloromethane	9.90	66.3		0.40	3.35
108-10-1	4-Methyl-2-Pentanone	9.60	39.3		0.41	2.05
108-88-3	Toluene	9.50	35.8		0.60	1.88
10061-02-6	t-1,3-Dichloropropene	9.50	43.1		0.68	2.27
10061-01-5	cis-1,3-Dichloropropene	9.70	44.0		0.50	2.27
79-00-5	1,1,2-Trichloroethane	9.60	52.4		0.44	2.73

Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	VL0922ABS01	SDG No.:	Q3132
Lab Sample ID:	VL0922ABS01	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
VL042959.D	1		09/22/25 15:52	VL092225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
124-48-1	Dibromochloromethane	10.0	85.2		0.77	4.26
106-93-4	1,2-Dibromoethane	9.70	74.5		0.69	0.77
127-18-4	Tetrachloroethene	8.70	59.0		0.14	0.20
108-90-7	Chlorobenzene	9.40	43.3		0.37	2.30
100-41-4	Ethyl Benzene	9.50	41.3		0.83	2.17
179601-23-1	m/p-Xylene	18.9	82.1		1.78	4.34
95-47-6	o-Xylene	9.40	40.8		0.91	2.17
100-42-5	Styrene	9.60	40.9		0.68	2.13
75-25-2	Bromoform	9.80	101		0.52	5.17
79-34-5	1,1,2,2-Tetrachloroethane	8.90	61.1		0.14	0.21
95-49-8	2-Chlorotoluene	9.30	48.1		0.88	2.59
108-67-8	1,3,5-Trimethylbenzene	9.50	46.7		0.88	2.46
95-63-6	1,2,4-Trimethylbenzene	9.30	45.7		0.88	2.46
541-73-1	1,3-Dichlorobenzene	9.30	55.9		0.30	3.01
106-46-7	1,4-Dichlorobenzene	9.40	56.5		0.78	3.01
95-50-1	1,2-Dichlorobenzene	9.30	55.9		0.78	3.01
120-82-1	1,2,4-Trichlorobenzene	10.0	74.2		1.56	3.71
87-68-3	Hexachloro-1,3-Butadiene	8.40	89.6		1.39	5.33
106-99-0	1,3-Butadiene	8.10	17.9		0.11	1.11
91-20-3	Naphthalene	10.3	54.0		0.050	0.52
622-96-8	4-Ethyltoluene	9.30	45.7		1.03	2.46
110-54-3	Hexane	9.10	32.1		0.56	1.76
107-05-1	Allyl Chloride	9.00	28.2		0.34	1.57
123-91-1	1,4-Dioxane	9.30	33.5		0.79	1.80
80-62-6	Methyl Methacrylate	9.30	38.1		0.57	2.05
SURROGATES						
460-00-4	1-Bromo-4-Fluorobenzene	10.0			70 (65) - 130 (135)	100% SPK: 10
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	158000		2.787		
540-36-3	1,4-Difluorobenzene	476000		3.959		
3114-55-4	Chlorobenzene-d5	440000		8.882		

Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	VL0922ABS01	SDG No.:	Q3132
Lab Sample ID:	VL0922ABS01	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
VL042959.D	1		09/22/25 15:52	VL092225

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

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\VL092225\
 Data File : VL042959.D
 Acq On : 22 Sep 2025 15:52
 Operator : SY/MD
 Sample : VL0922ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0922ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:50:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	157611	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	475789	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	440323	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 329520 10.025 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	196098	9.250	ppbv	98
3) Chlorodifluoromethane	1.476	51	241019	9.122	ppbv	98
4) Chloromethane	1.531	50	83097	8.660	ppbv	99
5) Vinyl Chloride	1.580	62	72910	8.405	ppbv	100
6) Bromomethane	1.667	94	25316	8.274	ppbv	96
7) Chloroethane	1.703	64	29696	8.816	ppbv	96
8) Dichlorotetrafluoroethane	1.554	85	162369	8.972	ppbv	99
9) Propene	1.483	41	99904	8.692	ppbv	96
10) Heptane	4.978	43	277314	9.040	ppbv	98
11) Trichlorofluoromethane	1.878	101	186968	9.147	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	149089	9.007	ppbv	98
13) Ethanol	1.719	45	7189	6.447	ppbv	97
14) Bromoethene	1.781	108	55444	8.860	ppbv	99
15) Acetone	1.836	43	151513	7.381	ppbv	98
16) 1,3-Butadiene	1.609	39	78310	8.087	ppbv	100
17) tert-Butyl alcohol	2.040	59	202608	8.999	ppbv	100
18) 1,1-Dichloroethene	2.033	96	68641	8.959	ppbv	98
19) Isopropyl Alcohol	1.884	45	106256	8.610	ppbv	100
20) Methylene Chloride	2.062	84	60096	9.806	ppbv	97
21) Allyl Chloride	2.095	41	129200	9.037	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	77254	8.874	ppbv	100
23) Vinyl Acetate	2.464	43	248190	8.463	ppbv	99
24) 1,1-Dichloroethane	2.409	63	154444	9.046	ppbv	99
25) Ethyl Acetate	2.833	43	477860	9.210	ppbv	99
26) Hexane	2.826	57	215902	9.129	ppbv	98
27) Carbon Disulfide	2.150	76	187493	8.839	ppbv	99
28) Methyl tert-Butyl Ether	2.438	73	95760	7.790	ppbv	99
29) Chloroform	2.849	83	295049	9.541	ppbv	99
30) Cyclohexane	3.855	84	184610	9.336	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	206747	9.332	ppbv	99
32) 1,1,1-Trichloroethane	3.367	97	301400	9.024	ppbv	99
34) 2-Butanone	2.557	43	308258	9.245	ppbv	99
35) Carbon Tetrachloride	3.762	117	299002	9.653	ppbv	98
36) Benzene	3.655	78	427346	9.565	ppbv	99
37) 1,2-Dichloroethane	3.218	62	233446	9.935	ppbv	99
38) Trichloroethene	4.548	130	204031	9.189	ppbv	96
39) 1,2-Dichloropropane	4.315	63	157775	9.673	ppbv	98
40) 1,4-Dioxane	4.584	88	70833	9.339	ppbv #	95
41) Tetrahydrofuran	3.053	42	177879	9.281	ppbv	99
42) Bromodichloromethane	4.490	83	324757	9.924	ppbv	94
43) Methyl Methacrylate	4.878	69	169093	9.250	ppbv	99
44) 2,2,4-Trimethylpentane	4.639	57	725943	9.407	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	185943	9.538	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042959.D
 Acq On : 22 Sep 2025 15:52
 Operator : SY/MD
 Sample : VL0922ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0922ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:50:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

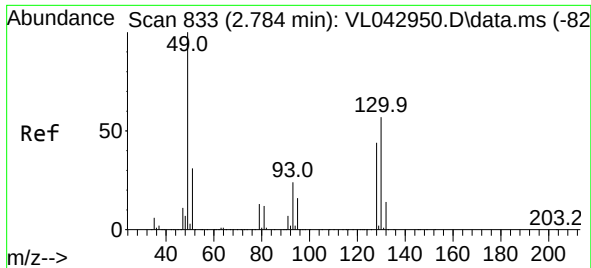
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

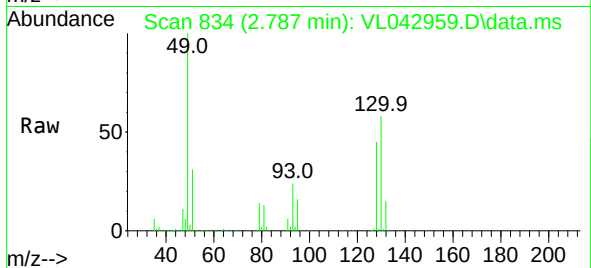
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	240185	9.667	ppbv	98
47) 1,1,2-Trichloroethane	6.581	97	165106	9.580	ppbv	97
48) Dibromochloromethane	7.387	129	275781	10.002	ppbv	99
49) Bromoform	9.484	173	235060	9.800	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	431031	9.645	ppbv	99
51) 2-Hexanone	7.435	43	343461	9.641	ppbv	100
52) Tetrachloroethene	8.228	164	150483	8.705	ppbv	97
53) Toluene	6.933	91	501548	9.484	ppbv	100
54) 1,2-Dibromoethane	7.652	107	235389	9.704	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	200560	9.516	ppbv	98
57) Chlorobenzene	8.924	112	377524	9.392	ppbv	97
58) Ethyl Benzene	9.354	91	686057	9.489	ppbv	99
59) m/p-Xylene	9.532	91	1075186m	18.862	ppbv	
60) o-Xylene	9.966	91	537008	9.426	ppbv	100
61) Styrene	9.872	104	258756	9.602	ppbv	98
62) Isopropylbenzene	10.539	105	787602	9.274	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	266223	8.890	ppbv	100
64) n-propylbenzene	10.989	120	208358	9.389	ppbv	100
65) tert-Butylbenzene	11.533	119	694033	9.188	ppbv	99
66) Benzyl Chloride	11.617	91	64955	8.196	ppbv	99
67) sec-Butylbenzene	11.769	105	974750	9.261	ppbv	99
69) p-Isopropyltoluene	11.924	119	820532	9.229	ppbv	99
70) n-Butylbenzene	12.280	91	818866	9.434	ppbv	100
71) 2-Chlorotoluene	10.902	91	598619	9.336	ppbv	100
72) 4-Ethyltoluene	11.125	105	665916	9.332	ppbv	100
73) 1,3,5-Trimethylbenzene	11.206	105	552039	9.539	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	592889	9.277	ppbv	95
75) 1,3-Dichlorobenzene	11.607	146	368544	9.299	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	369921	9.397	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	350261	9.288	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	246743	8.366	ppbv	99
79) Naphthalene	13.514	128	579760	10.259	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	167256	9.581	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	300876	9.958	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

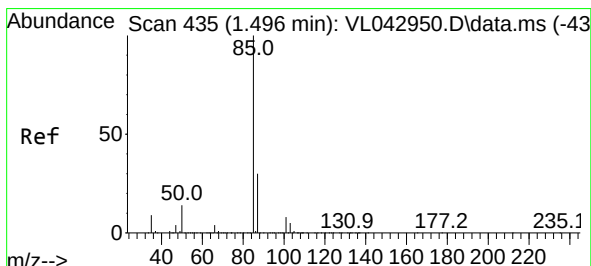
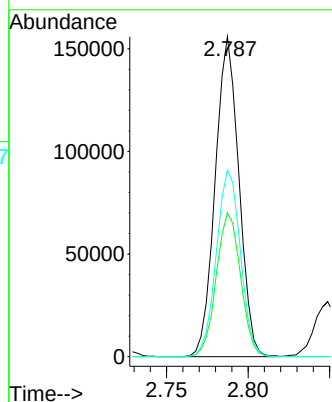
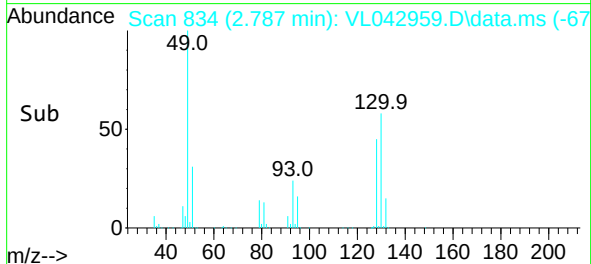
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01



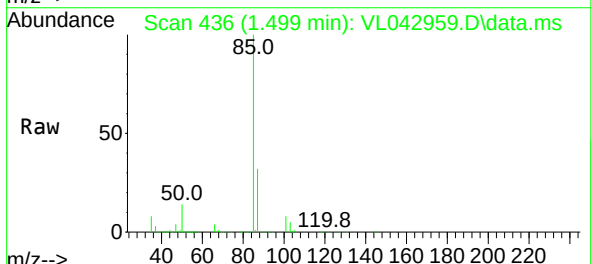
Tgt Ion: 49 Resp: 15761
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.8
130 59.3 29.1 87.3

Manual Integrations
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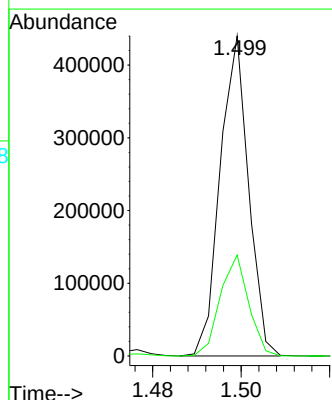
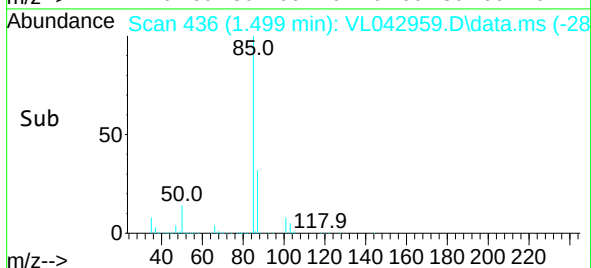
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

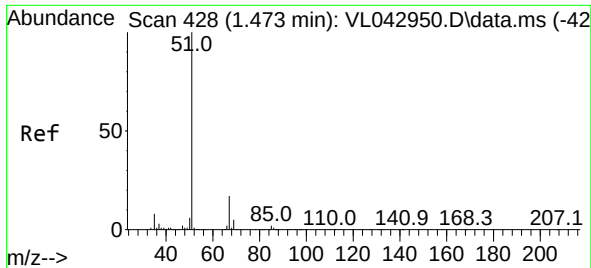


#2
Dichlorodifluoromethane
Concen: 9.250 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52



Tgt Ion: 85 Resp: 196098
Ion Ratio Lower Upper
85 100
87 31.5 24.3 36.5





#3

Chlorodifluoromethane

Concen: 9.122 ppbv

RT: 1.476 min Scan# 428

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

VL0922ABS01

Tgt Ion: 51 Resp: 241019

Ion Ratio Lower Upper

51 100

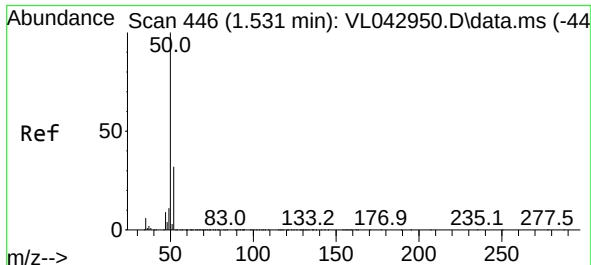
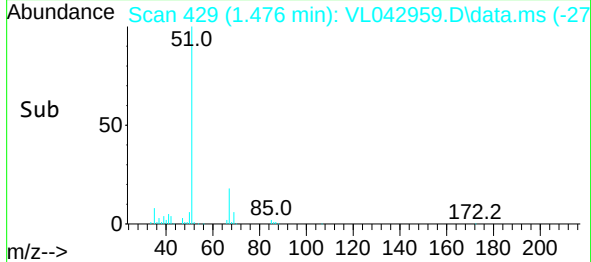
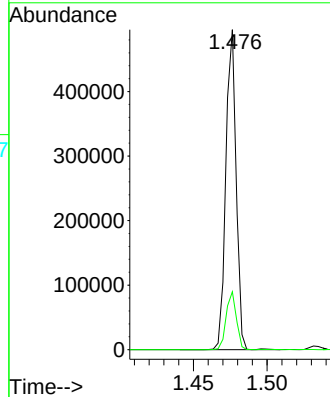
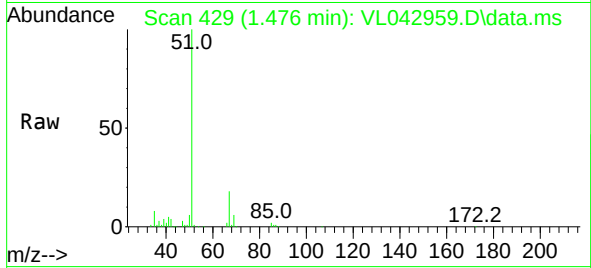
67 18.1 13.8 20.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#4

Chloromethane

Concen: 8.660 ppbv

RT: 1.531 min Scan# 446

Delta R.T. 0.000 min

Lab File: VL042959.D

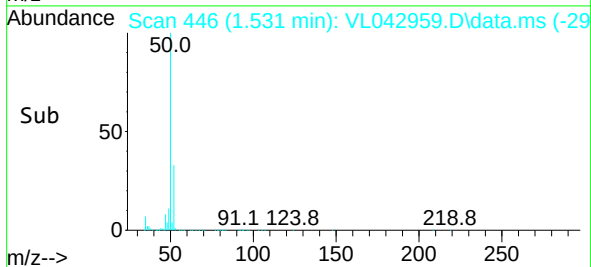
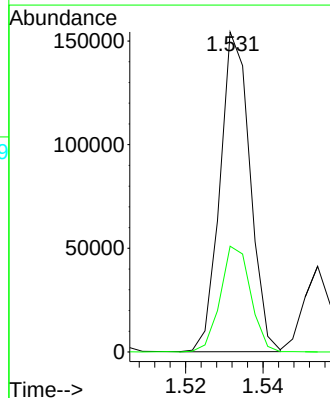
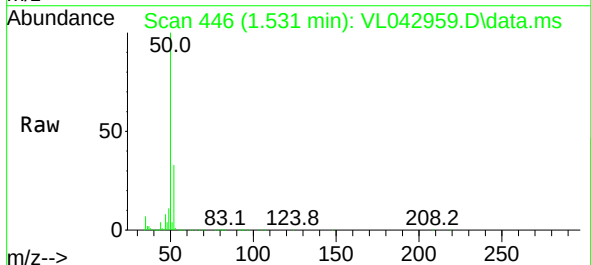
Acq: 22 Sep 2025 15:52

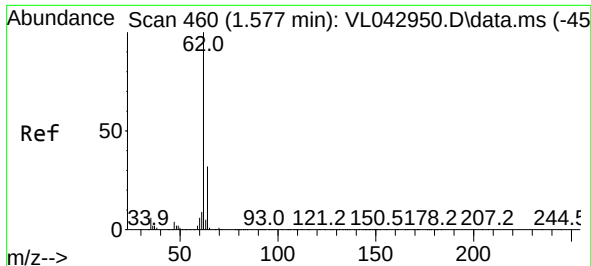
Tgt Ion: 50 Resp: 83097

Ion Ratio Lower Upper

50 100

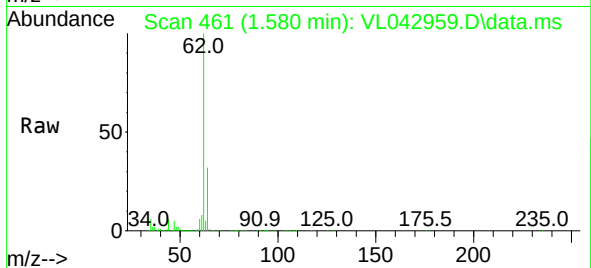
52 33.0 25.9 38.9





#5
 Vinyl Chloride
 Concen: 8.405 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

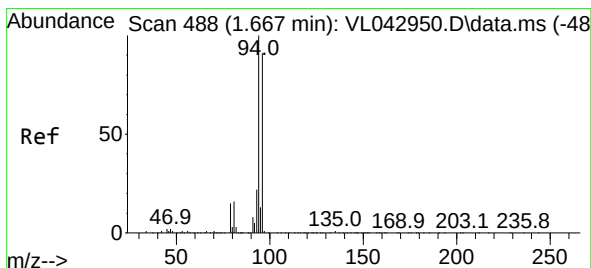
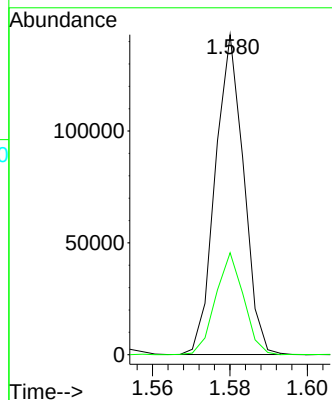
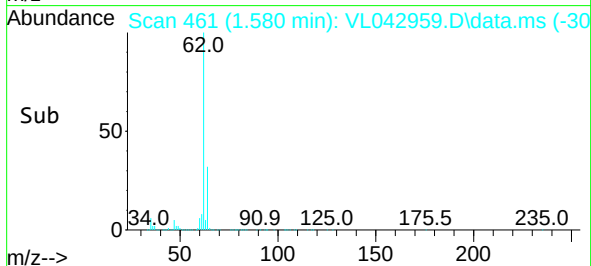
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0922ABS01



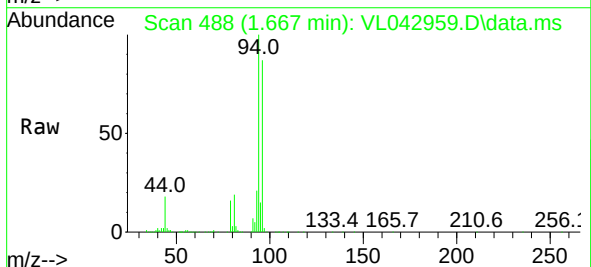
Tgt Ion: 62 Resp: 72910
 Ion Ratio Lower Upper
 62 100
 64 31.9 25.4 38.2

Manual Integrations
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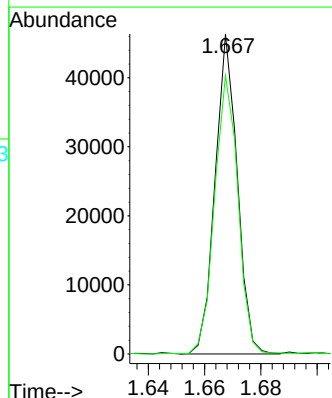
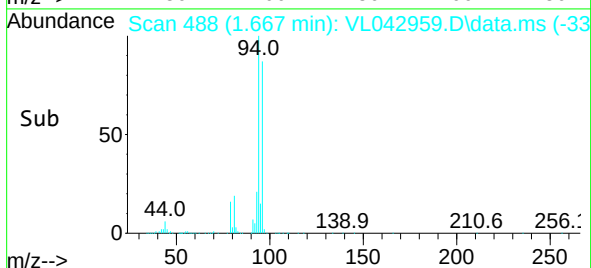
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

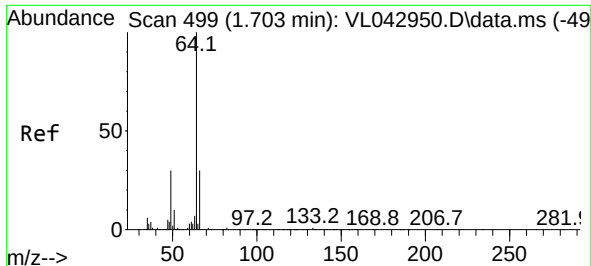


#6
 Bromomethane
 Concen: 8.274 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52



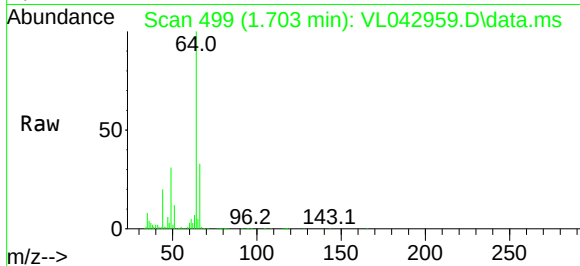
Tgt Ion: 94 Resp: 25316
 Ion Ratio Lower Upper
 94 100
 96 86.9 72.6 108.8





#7
Chloroethane
Concen: 8.816 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

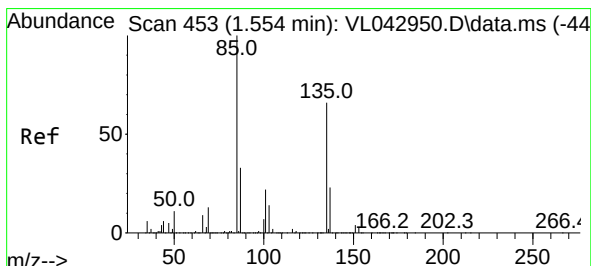
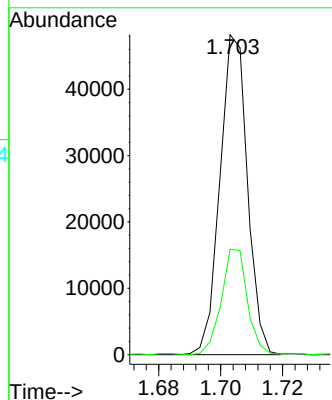
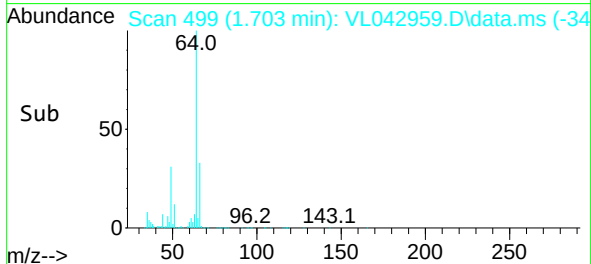
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01



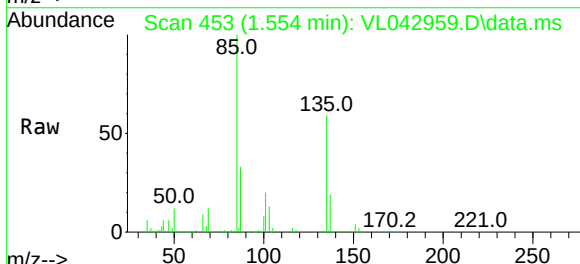
Tgt Ion: 64 Resp: 29690
Ion Ratio Lower Upper
64 100
66 32.9 24.6 36.8

Manual Integrations
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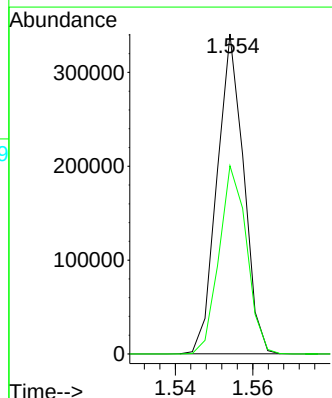
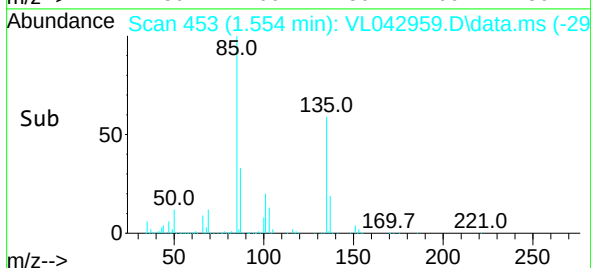
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

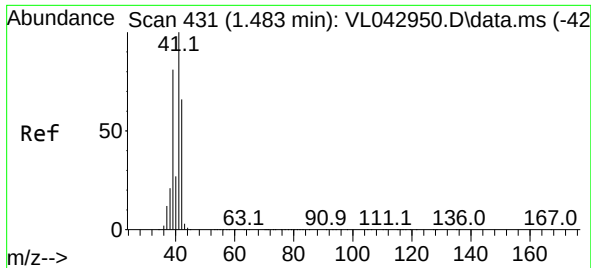


#8
Dichlorotetrafluoroethane
Concen: 8.972 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52



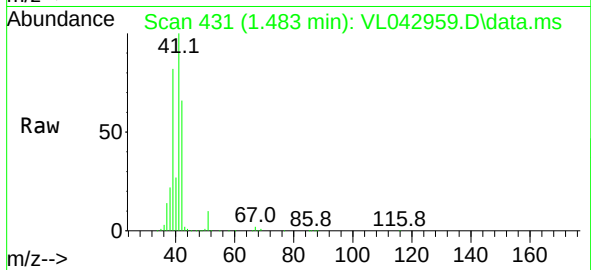
Tgt Ion: 85 Resp: 162369
Ion Ratio Lower Upper
85 100
135 61.3 49.7 74.5





#9
 Propene
 Concen: 8.692 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

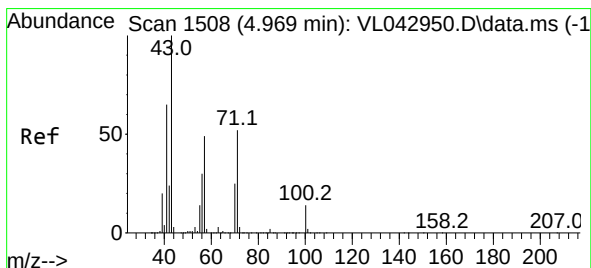
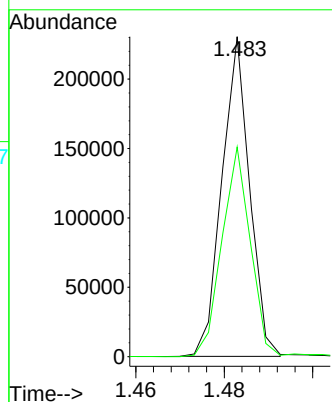
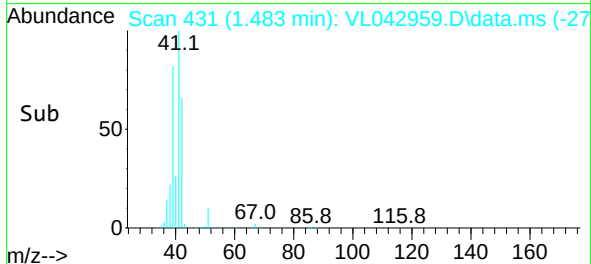
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0922ABS01



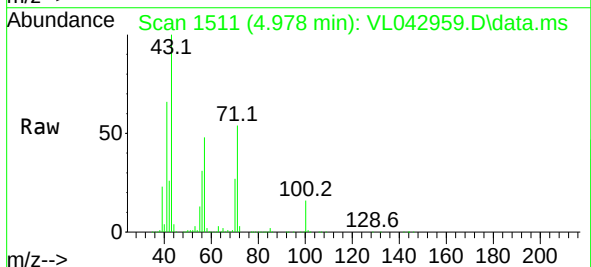
Tgt Ion: 41 Resp: 99904
 Ion Ratio Lower Upper
 41 100
 42 68.7 57.4 86.2

Manual Integrations
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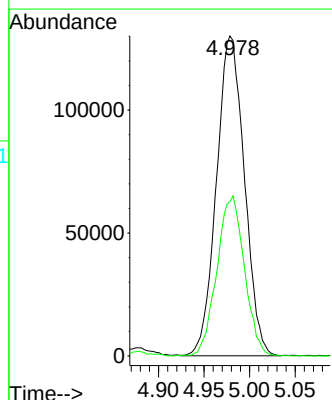
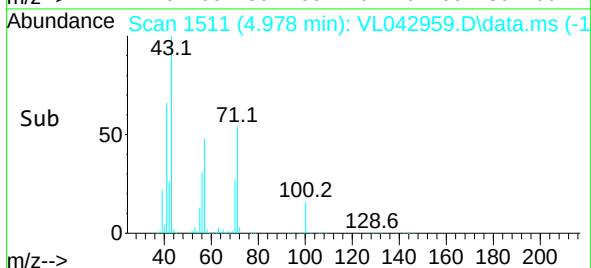
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

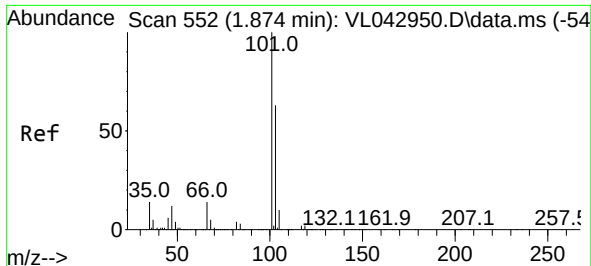


#10
 Heptane
 Concen: 9.040 ppbv
 RT: 4.978 min Scan# 1511
 Delta R.T. 0.010 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52



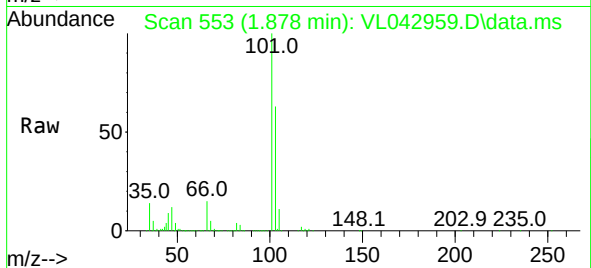
Tgt Ion: 43 Resp: 277314
 Ion Ratio Lower Upper
 43 100
 57 49.3 38.6 57.8





#11
Trichlorofluoromethane
Concen: 9.147 ppbv
RT: 1.878 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

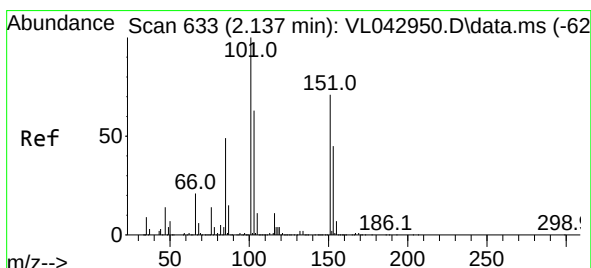
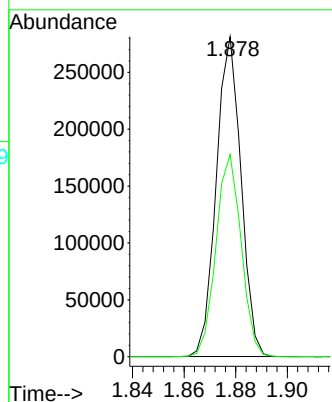
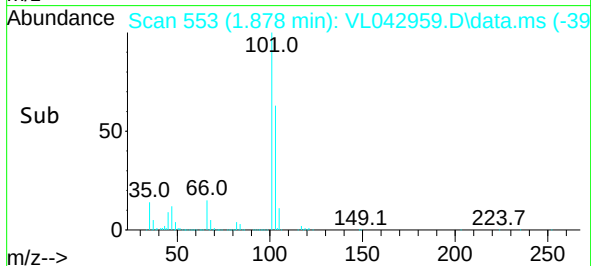
Instrument :
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ClientSampleId :
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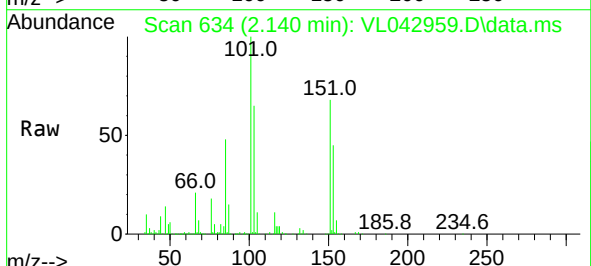
Tgt Ion:101 Resp: 186968
Ion Ratio Lower Upper
101 100
103 63.2 50.1 75.1

Manual Integrations
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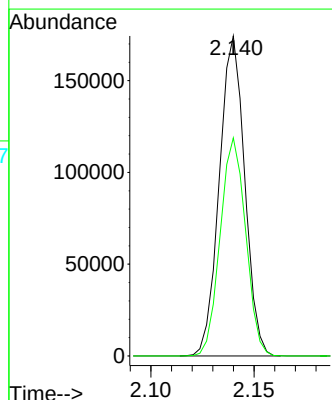
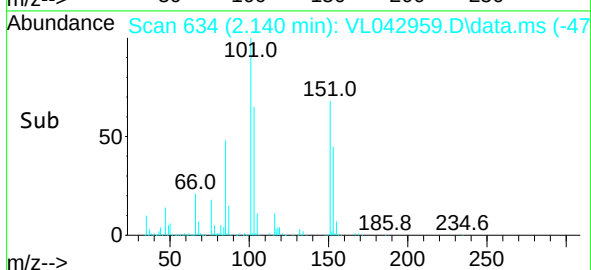
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

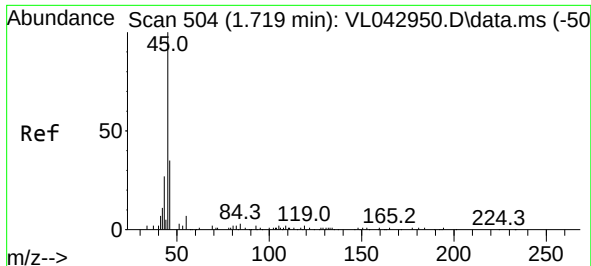


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.007 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52



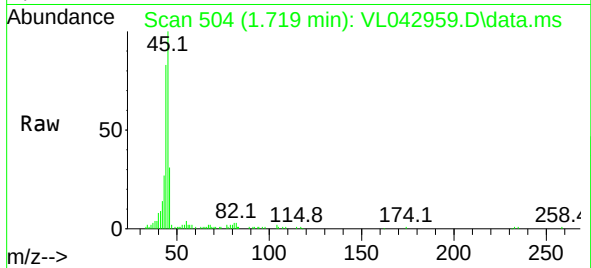
Tgt Ion:101 Resp: 149089
Ion Ratio Lower Upper
101 100
151 68.3 55.7 83.5





#13
Ethanol
Concen: 6.447 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

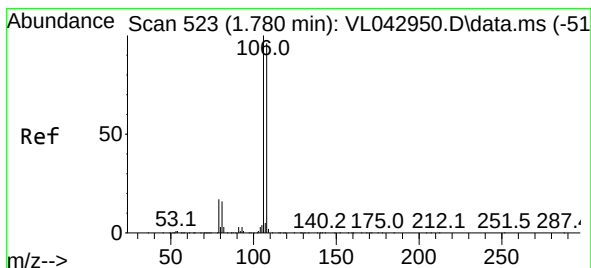
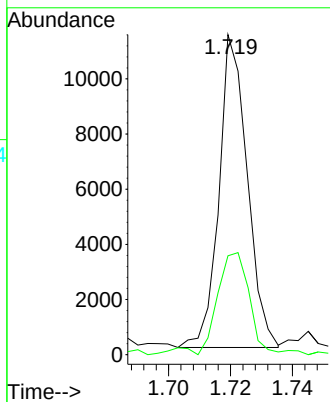
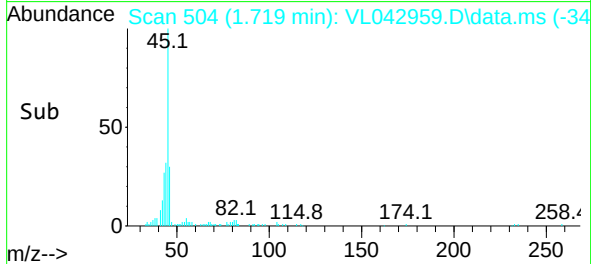
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01



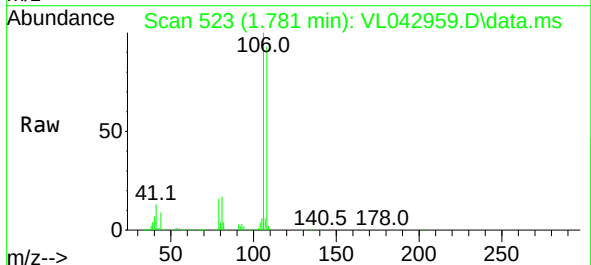
Tgt Ion: 45 Resp: 7189
Ion Ratio Lower Upper
45 100
46 38.5 16.2 64.6

Manual Integrations
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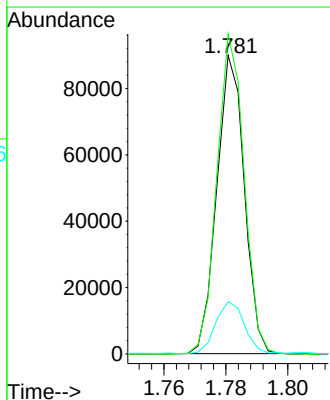
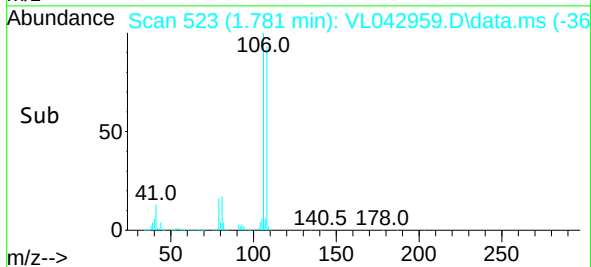
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

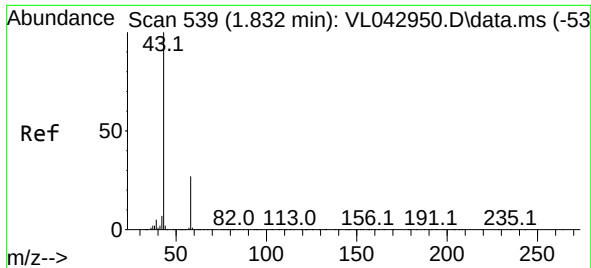


#14
Bromoethene
Concen: 8.860 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52



Tgt Ion:108 Resp: 55444
Ion Ratio Lower Upper
108 100
106 106.5 86.0 129.0
79 18.9 14.2 21.2





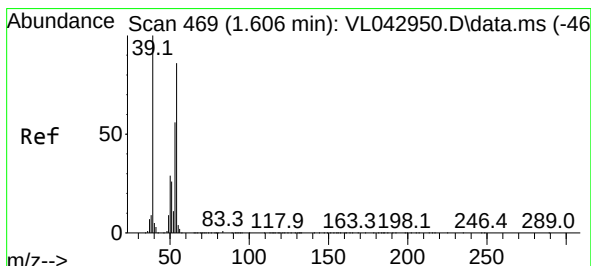
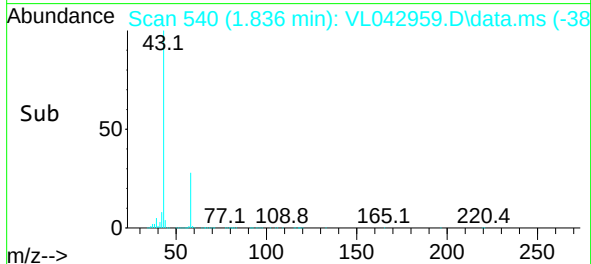
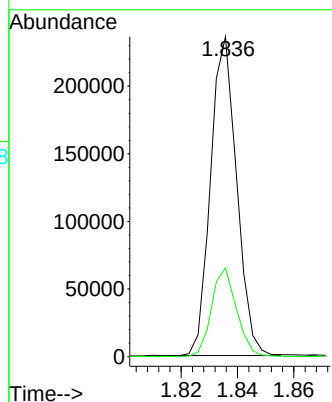
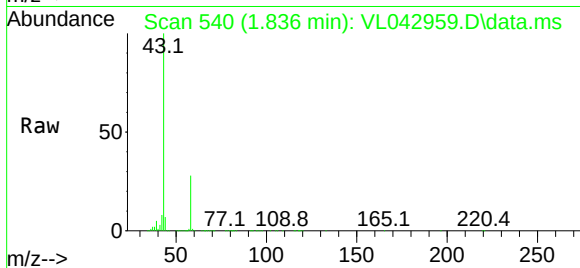
#15
Acetone
Concen: 7.381 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01

Tgt Ion: 43 Resp: 15151
Ion Ratio Lower Upper
43 100
58 27.0 22.3 33.5

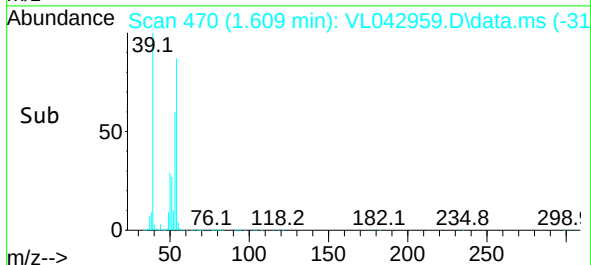
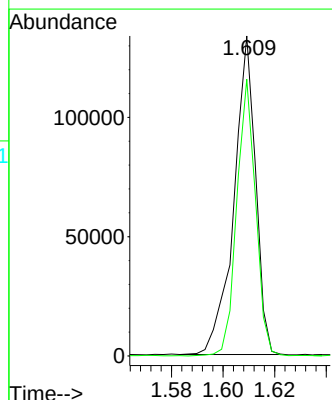
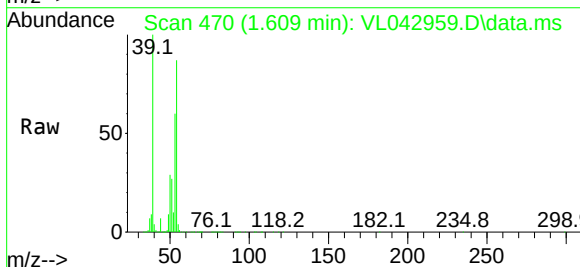
Manual Integrations
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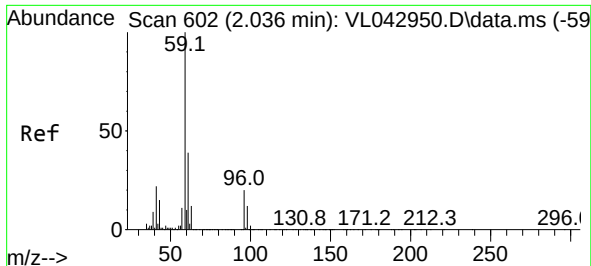
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#16
1,3-Butadiene
Concen: 8.087 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 39 Resp: 78310
Ion Ratio Lower Upper
39 100
54 76.4 60.8 91.2





#17

tert-Butyl alcohol

Concen: 8.999 ppbv

RT: 2.040 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

VL0922ABS01

Tgt Ion: 59 Resp: 202608

Ion Ratio Lower Upper

59 100

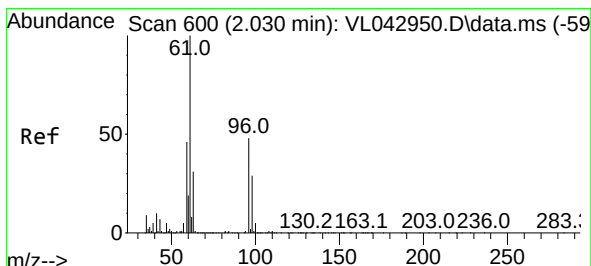
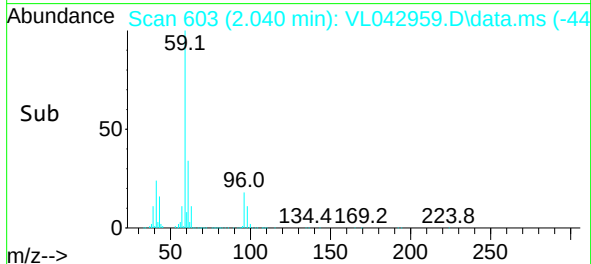
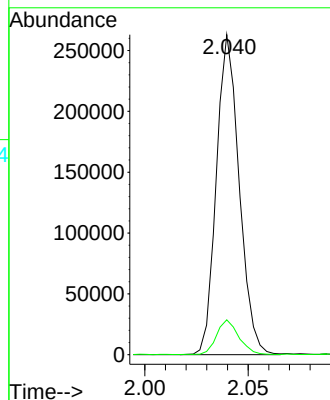
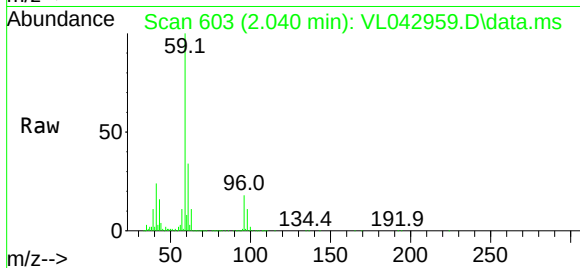
57 10.8 8.6 12.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#18

1,1-Dichloroethene

Concen: 8.959 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

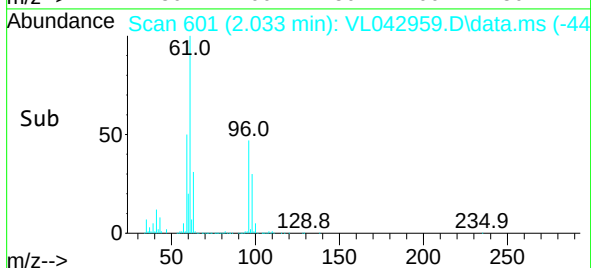
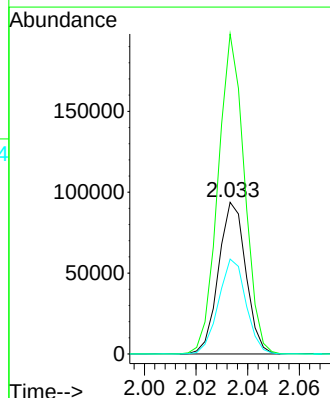
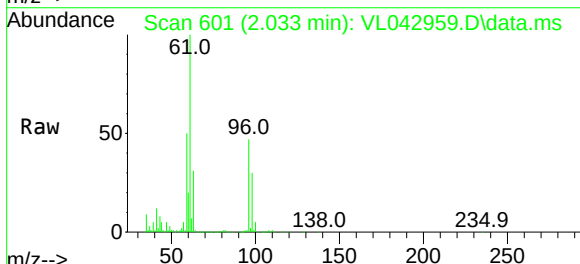
Tgt Ion: 96 Resp: 68641

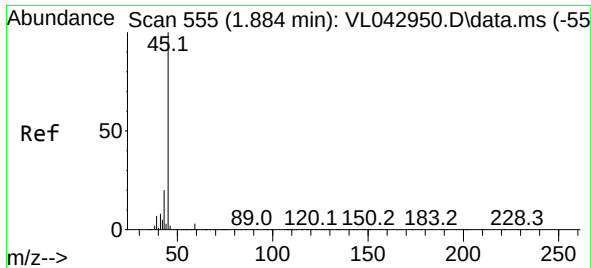
Ion Ratio Lower Upper

96 100

61 211.1 166.2 249.4

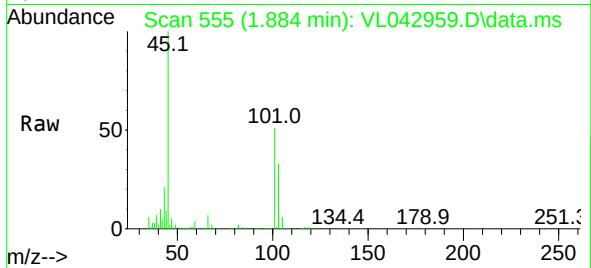
98 62.6 48.6 73.0





#19
Isopropyl Alcohol
Concen: 8.610 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

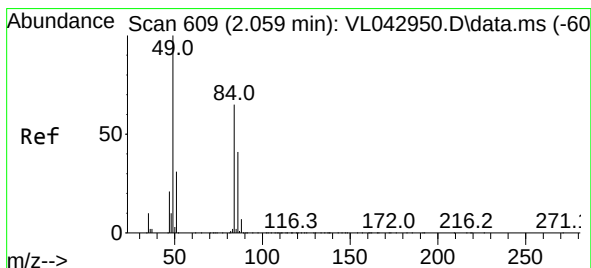
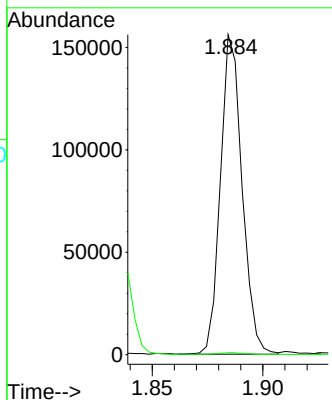
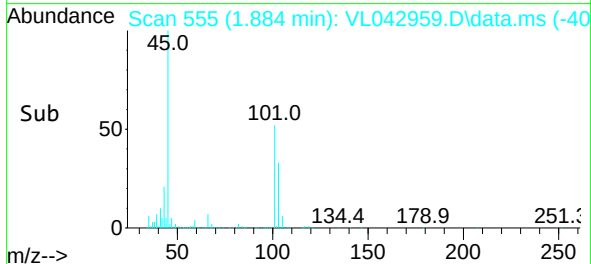
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01



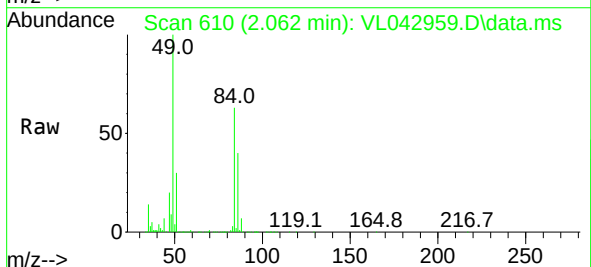
Tgt Ion: 45 Resp: 106250
Ion Ratio Lower Upper
45 100
58 38.8 31.0 46.6

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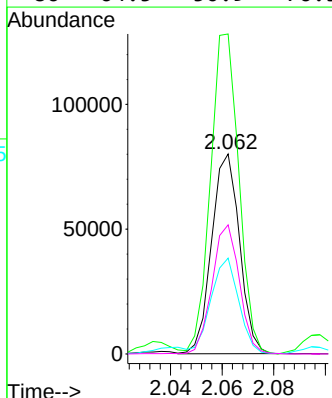
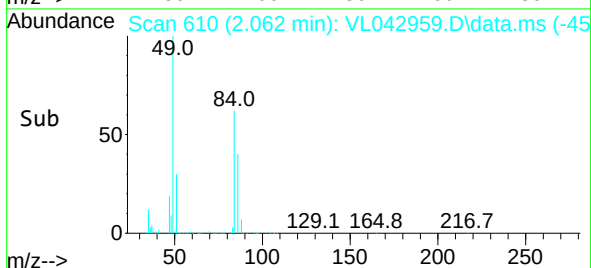
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

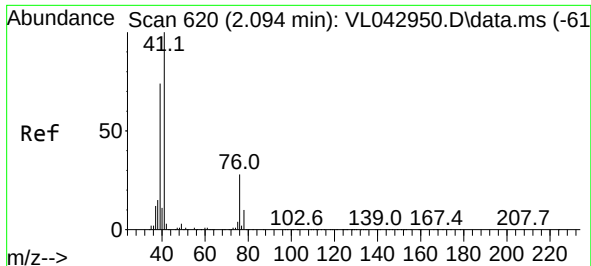


#20
Methylene Chloride
Concen: 9.806 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52



Tgt Ion: 84 Resp: 60096
Ion Ratio Lower Upper
84 100
49 160.2 124.1 186.1
51 47.7 39.8 59.8
86 64.5 50.9 76.3





#21

Allyl Chloride

Concen: 9.037 ppbv

RT: 2.095 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

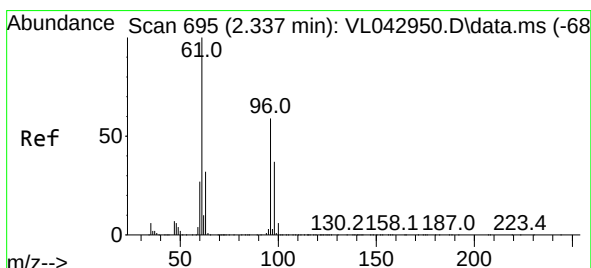
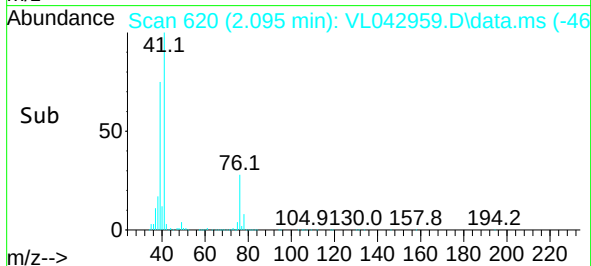
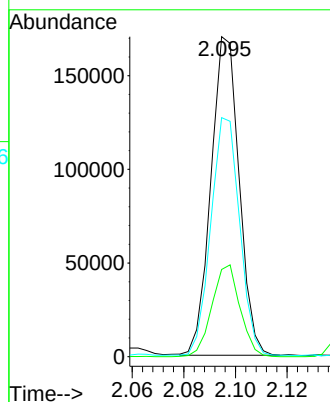
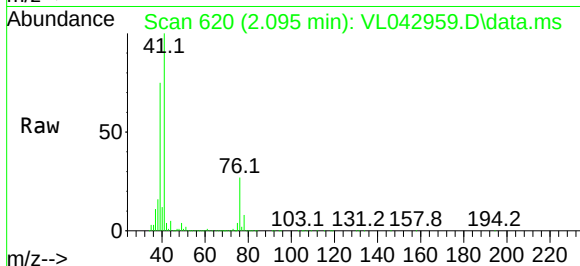
VL0922ABS01

Tgt Ion: 41	Resp: 129200
Ion Ratio	Lower Upper
41	100
76	28.6 22.3 33.5
39	76.2 61.3 91.9

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#22

trans-1,2-Dichloroethene

Concen: 8.874 ppbv

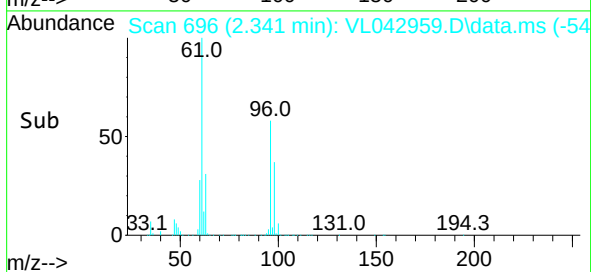
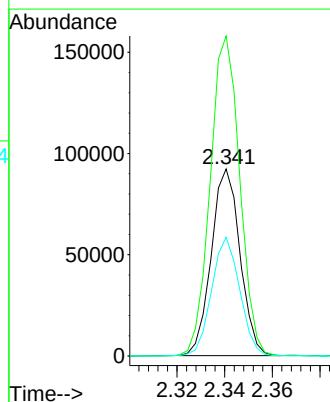
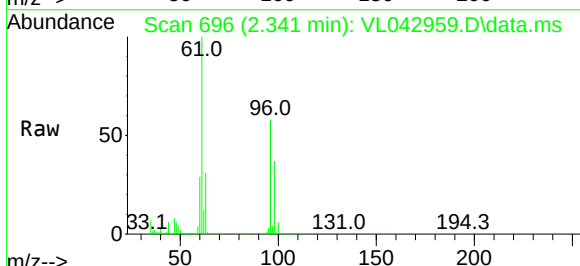
RT: 2.341 min Scan# 696

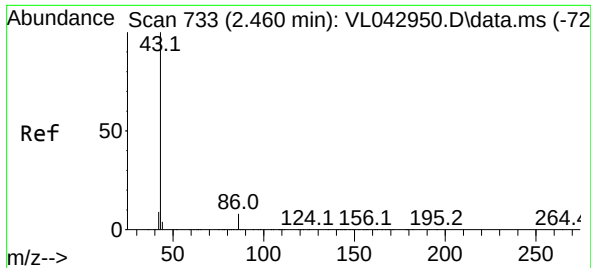
Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

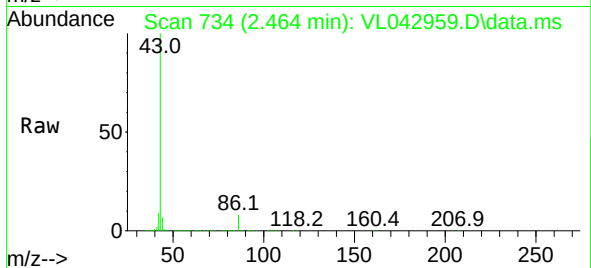
Tgt Ion: 96	Resp: 77254
Ion Ratio	Lower Upper
96	100
61	171.2 136.5 204.7
98	63.4 50.6 76.0





#23
 Vinyl Acetate
 Concen: 8.463 ppbv
 RT: 2.464 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

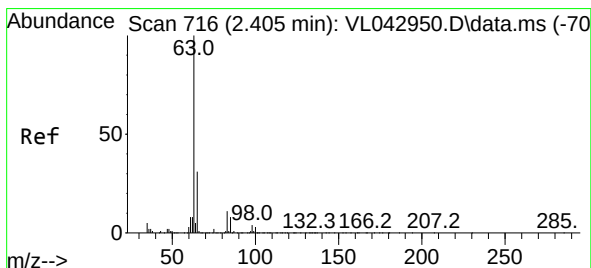
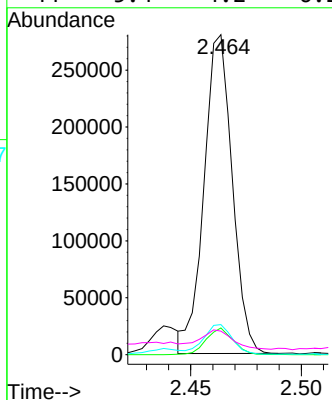
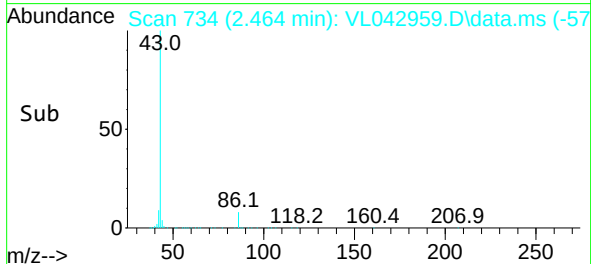
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0922ABS01



Tgt Ion: 43 Resp: 248190
 Ion Ratio Lower Upper
 43 100
 86 8.3 6.2 9.2
 42 9.3 7.4 11.0
 44 5.4 4.2 6.2

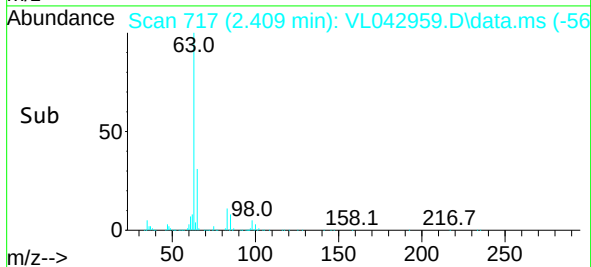
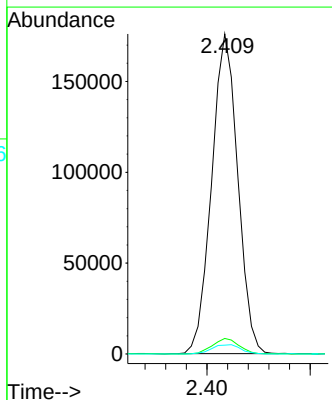
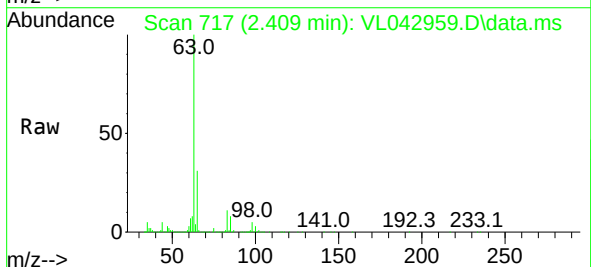
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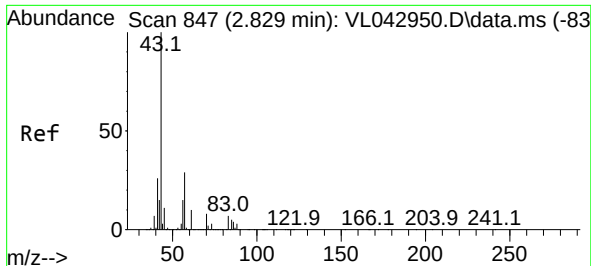
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#24
 1,1-Dichloroethane
 Concen: 9.046 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

Tgt Ion: 63 Resp: 154444
 Ion Ratio Lower Upper
 63 100
 98 4.8 2.2 6.6
 100 2.7 1.4 4.0





#25

Ethyl Acetate

Concen: 9.210 ppbv

RT: 2.833 min Scan# 84

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

VL0922ABS01

Tgt Ion: 43 Resp: 477860

Ion Ratio Lower Upper

43 100

45 9.8 7.7 11.5

61 8.7 7.1 10.7

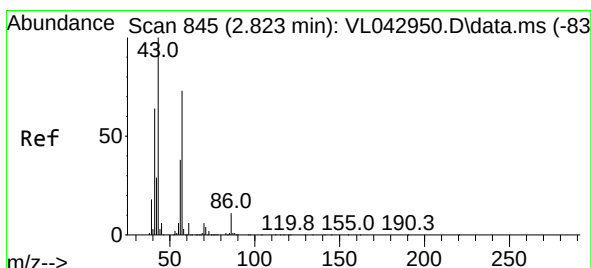
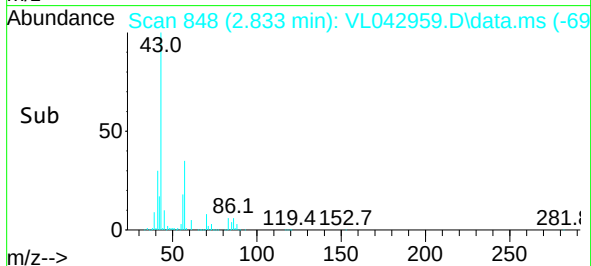
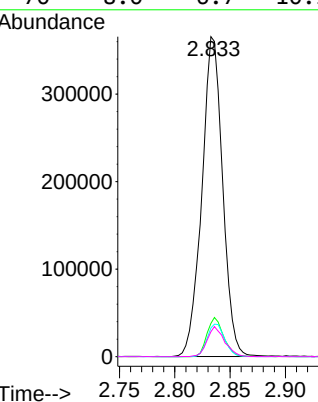
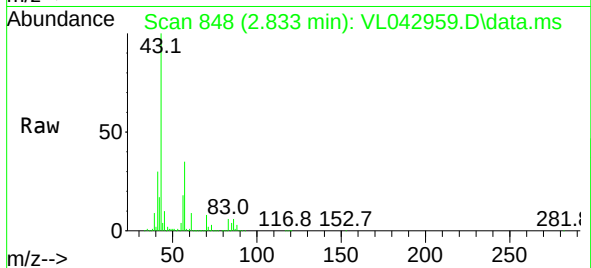
70 8.0 6.7 10.1

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#26

Hexane

Concen: 9.129 ppbv

RT: 2.826 min Scan# 846

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Tgt Ion: 57 Resp: 215902

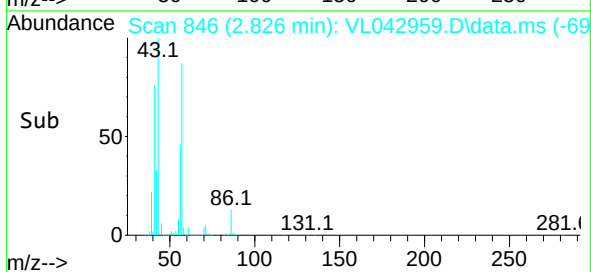
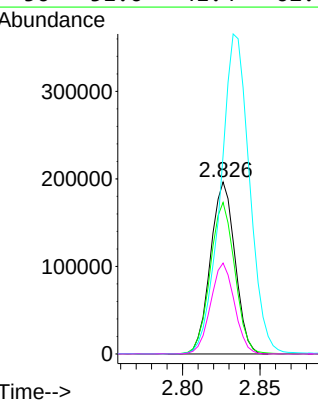
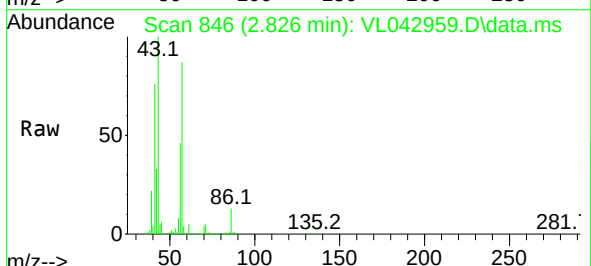
Ion Ratio Lower Upper

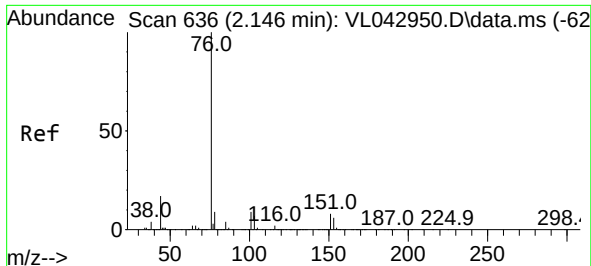
57 100

41 89.1 71.7 107.5

43 221.9 180.8 271.2

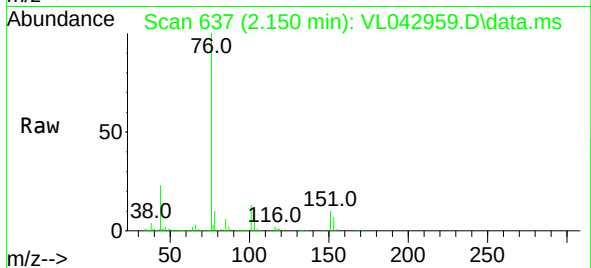
56 51.6 41.4 62.0





#27
Carbon Disulfide
Concen: 8.839 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

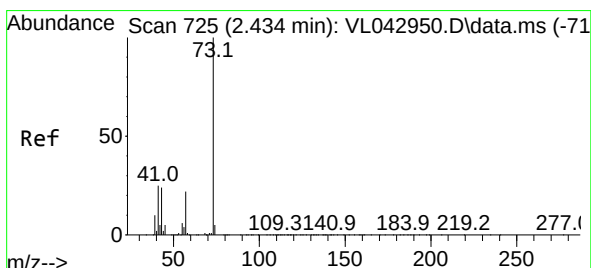
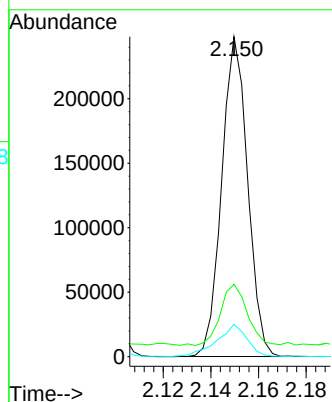
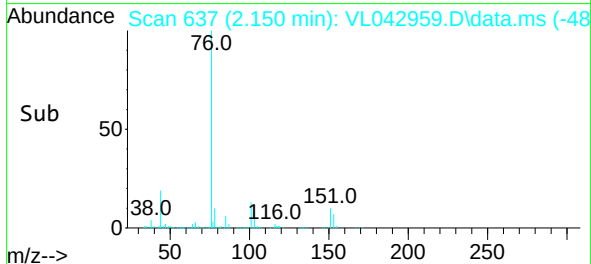
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01



Tgt Ion: 76 Resp: 18749
Ion Ratio Lower Upper
76 100
44 20.1 15.6 23.4
78 11.6 8.9 13.3

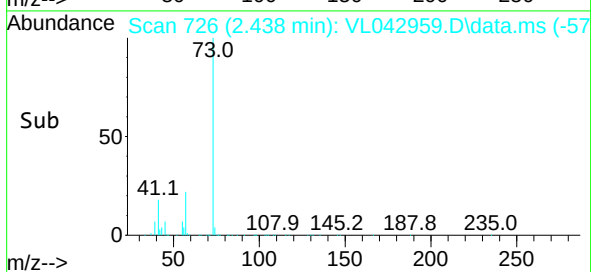
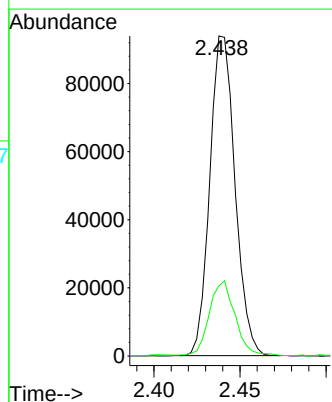
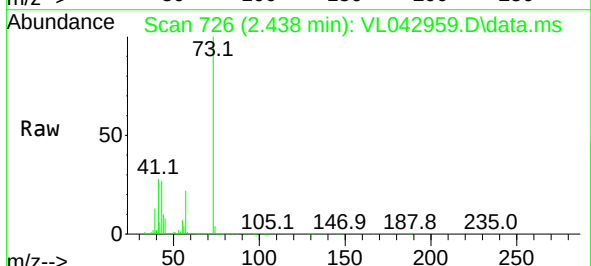
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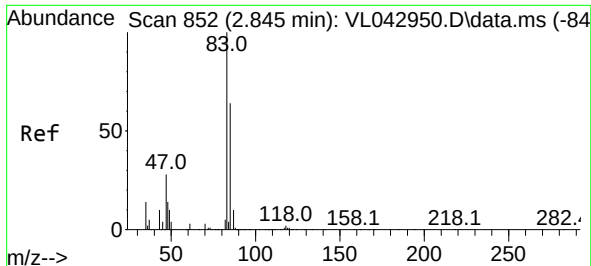
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#28
Methyl tert-Butyl Ether
Concen: 7.790 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 73 Resp: 95760
Ion Ratio Lower Upper
73 100
57 25.1 20.6 31.0





#29

Chloroform

Concen: 9.541 ppbv

RT: 2.849 min Scan# 853

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

VL0922ABS01

Tgt Ion: 83 Resp: 295049

Ion Ratio Lower Upper

83 100

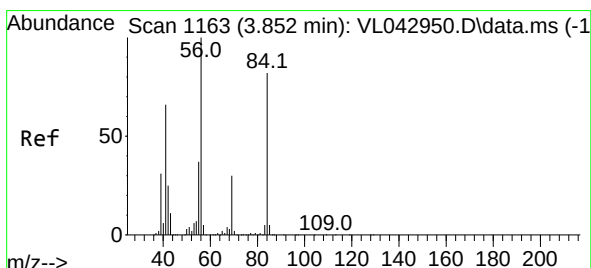
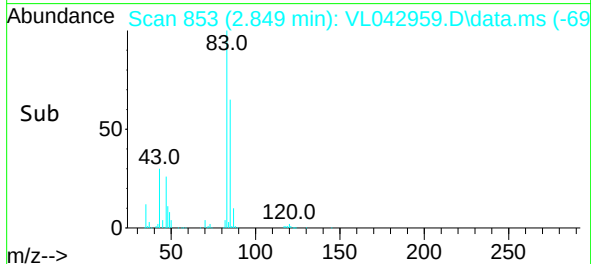
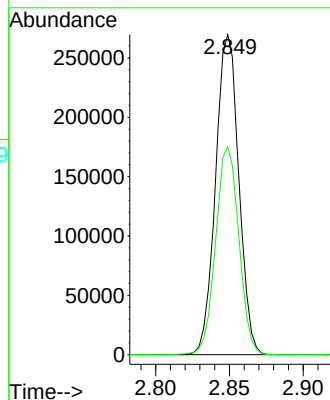
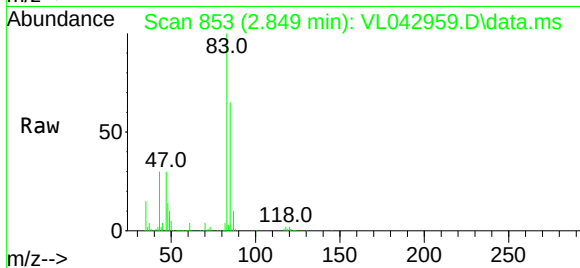
85 64.9 51.2 76.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#30

Cyclohexane

Concen: 9.336 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

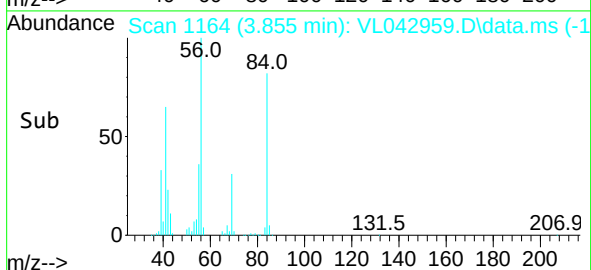
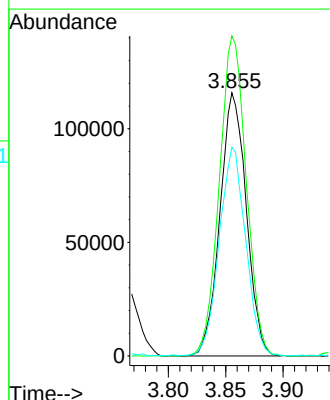
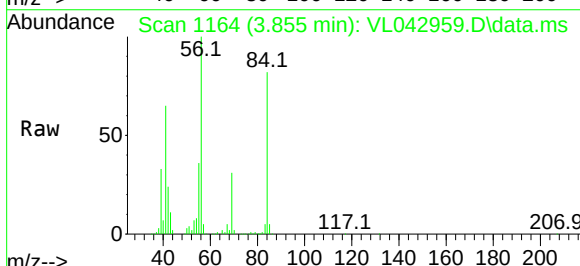
Tgt Ion: 84 Resp: 184610

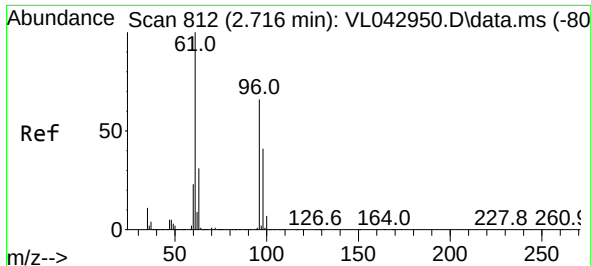
Ion Ratio Lower Upper

84 100

56 124.4 102.2 153.4

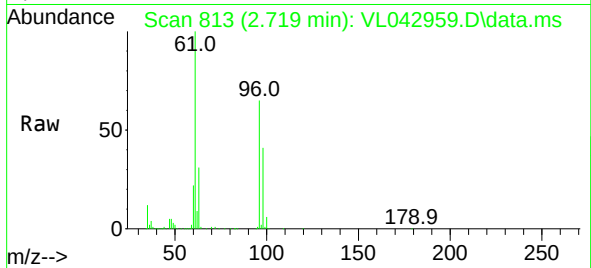
41 80.1 65.6 98.4





#31
 cis-1,2-Dichloroethene
 Concen: 9.332 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

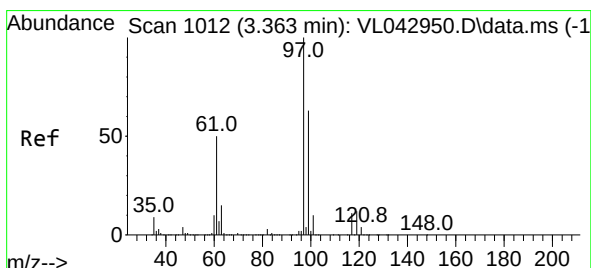
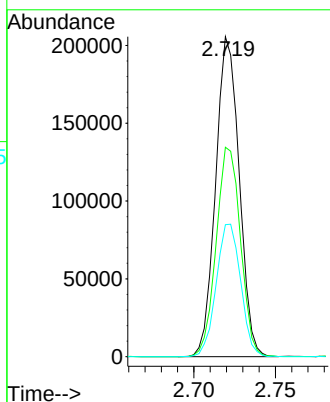
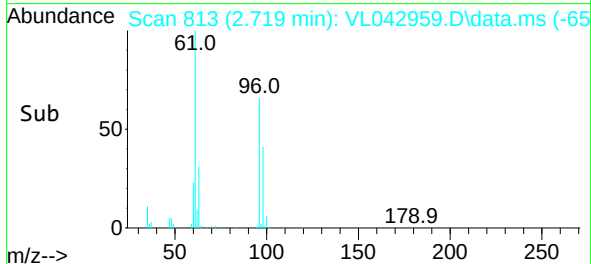
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0922ABS01



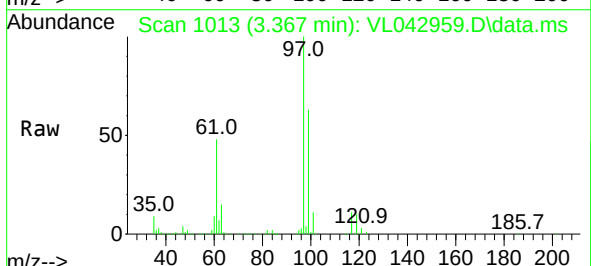
Tgt Ion: 61 Resp: 20674
 Ion Ratio Lower Upper
 61 100
 96 65.5 53.0 79.6
 98 41.2 32.9 49.3

Manual Integrations
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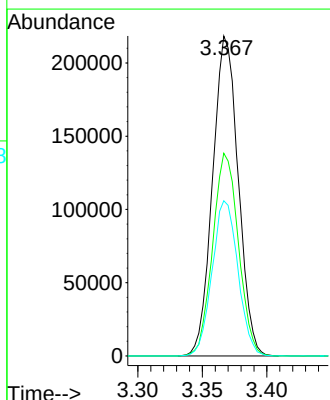
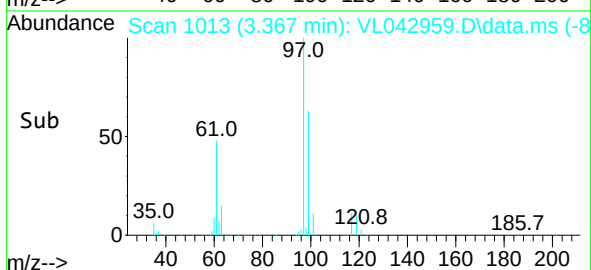
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

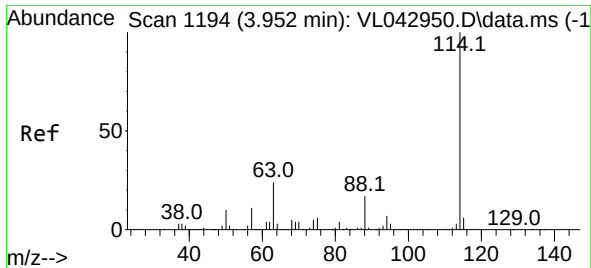


#32
 1,1,1-Trichloroethane
 Concen: 9.024 ppbv
 RT: 3.367 min Scan# 1013
 Delta R.T. 0.003 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52



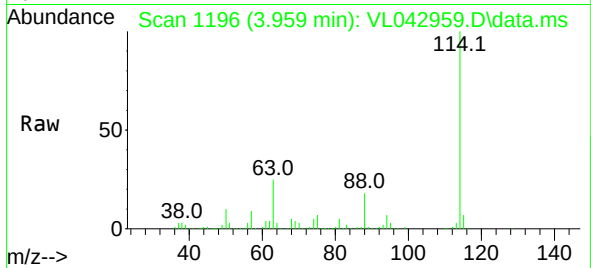
Tgt Ion: 97 Resp: 301400
 Ion Ratio Lower Upper
 97 100
 99 63.6 51.1 76.7
 61 48.8 39.8 59.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

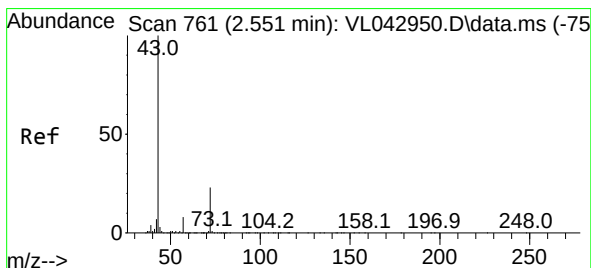
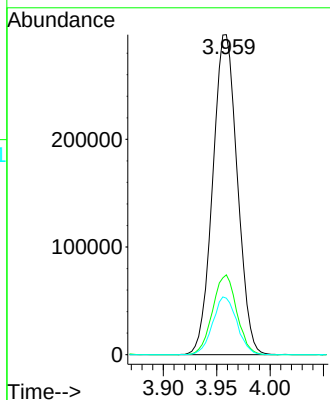
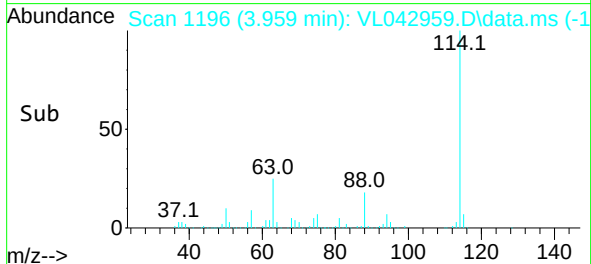
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01



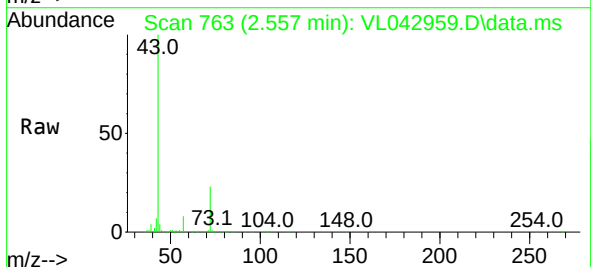
Tgt Ion:114 Resp: 475789
Ion Ratio Lower Upper
114 100
63 24.6 19.4 29.2
88 17.8 14.2 21.2

Manual Integrations
APPROVED

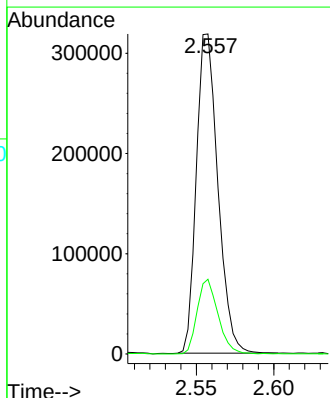
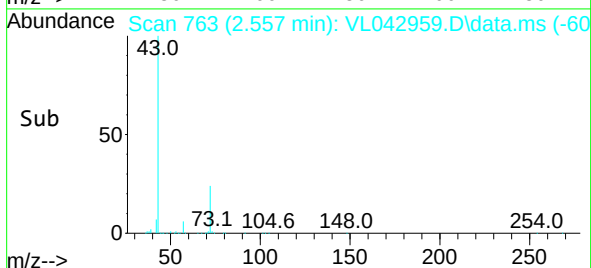
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

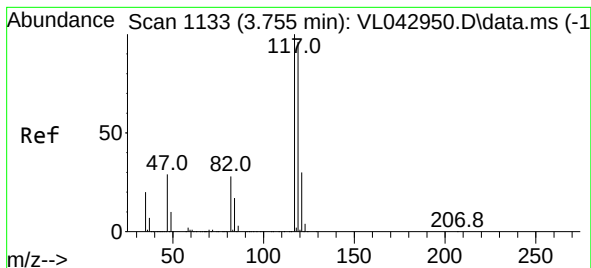


#34
2-Butanone
Concen: 9.245 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52



Tgt Ion: 43 Resp: 308258
Ion Ratio Lower Upper
43 100
72 22.8 17.7 26.5





#35

Carbon Tetrachloride

Concen: 9.653 ppbv

RT: 3.762 min Scan# 1135

Delta R.T. 0.007 min

Lab File: VL042959.D

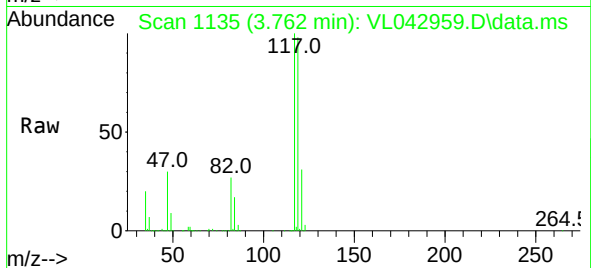
Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

VL0922ABS01



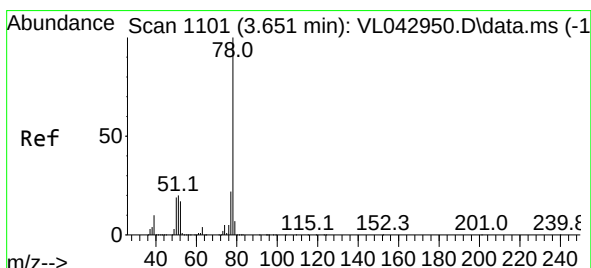
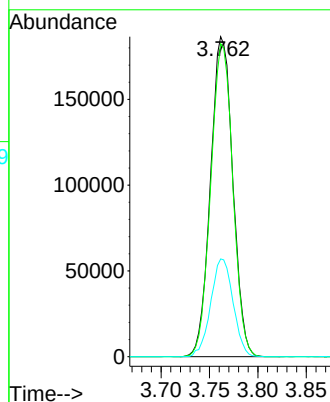
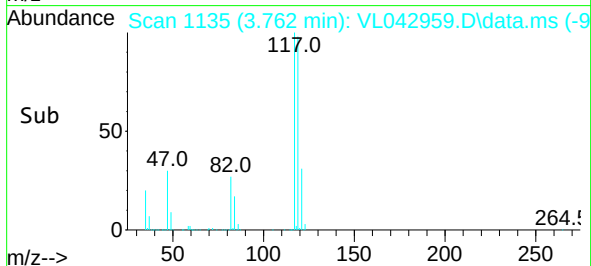
Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.8	76.9	115.3
121	30.6	23.7	35.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#36

Benzene

Concen: 9.565 ppbv

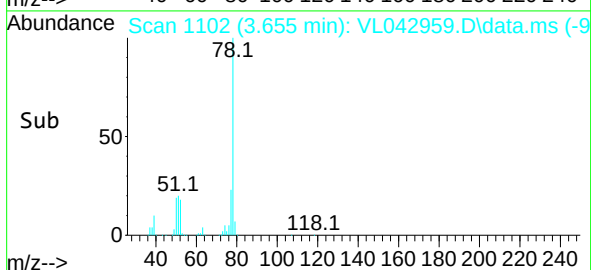
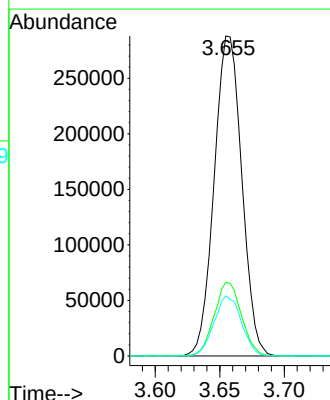
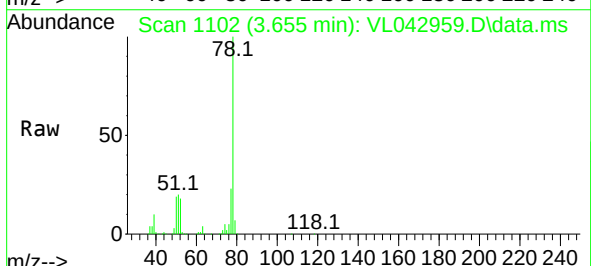
RT: 3.655 min Scan# 1102

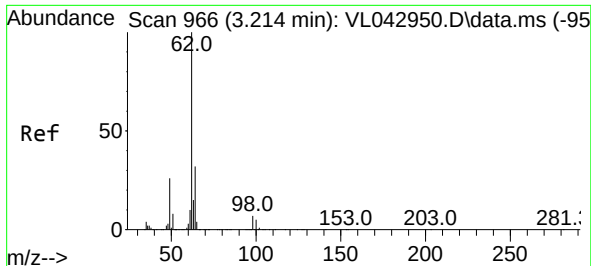
Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

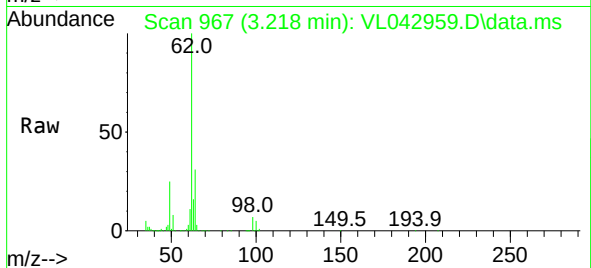
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.0	17.8	26.6
50	18.8	15.0	22.4





#37
1,2-Dichloroethane
Concen: 9.935 ppbv
RT: 3.218 min Scan# 90
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

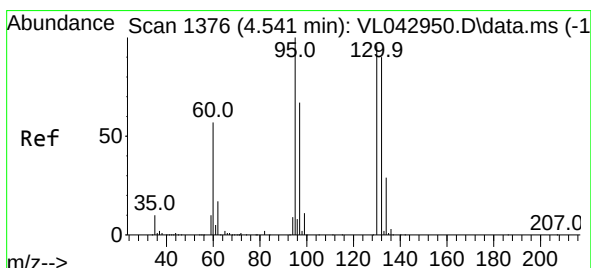
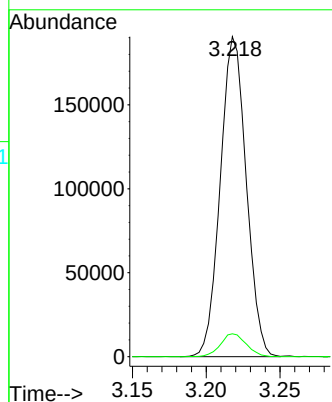
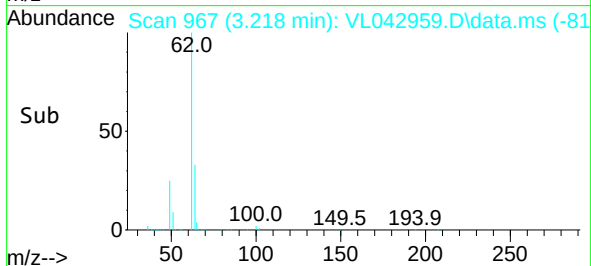
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01



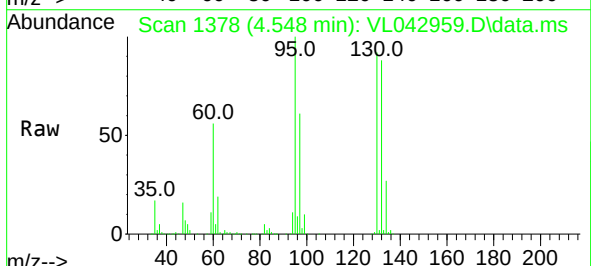
Tgt Ion: 62 Resp: 233440
Ion Ratio Lower Upper
62 100
98 7.1 5.9 8.9

Manual Integrations
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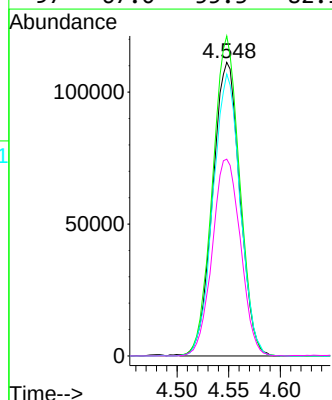
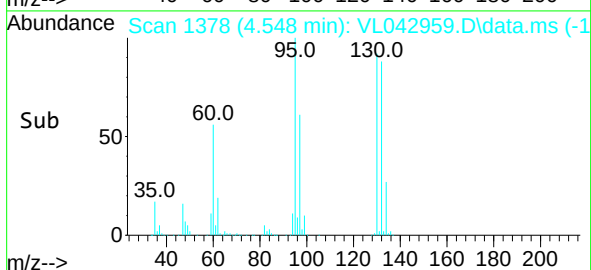
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

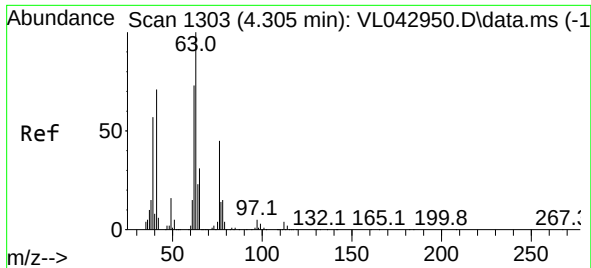


#38
Trichloroethene
Concen: 9.189 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52



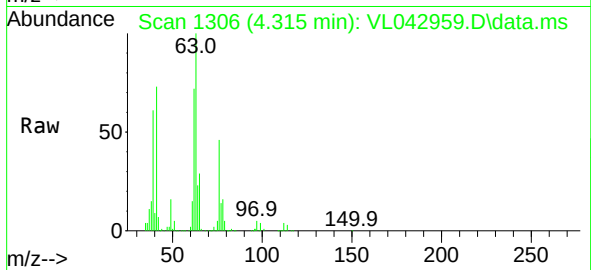
Tgt Ion:130 Resp: 204031
Ion Ratio Lower Upper
130 100
95 109.0 83.0 124.4
132 96.0 74.6 112.0
97 67.0 55.3 82.9





#39
 1,2-Dichloropropane
 Concen: 9.673 ppbv
 RT: 4.315 min Scan# 11
 Delta R.T. 0.010 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

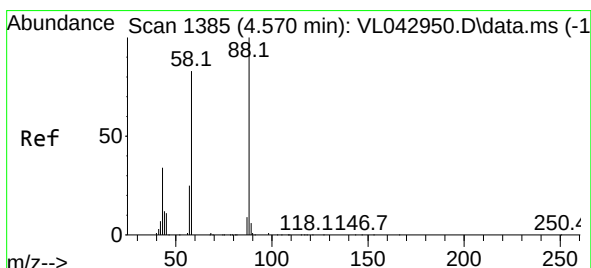
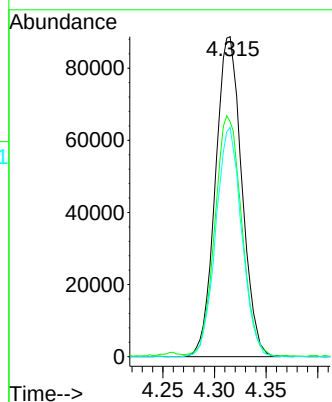
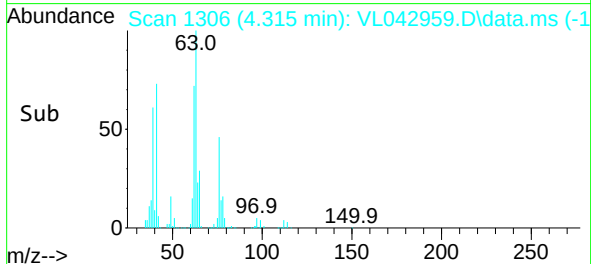
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0922ABS01



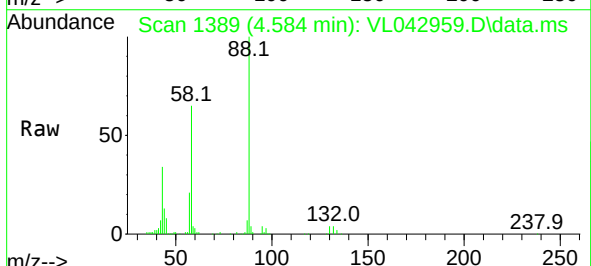
Tgt Ion: 63 Resp: 157775
 Ion Ratio Lower Upper
 63 100
 41 73.1 57.5 86.3
 62 71.6 58.5 87.7

Manual Integrations
 APPROVED

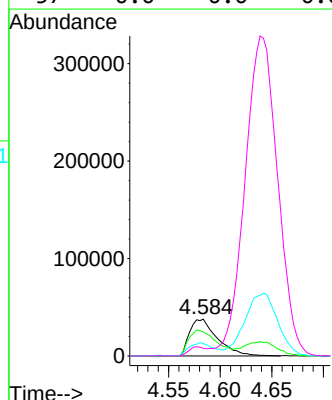
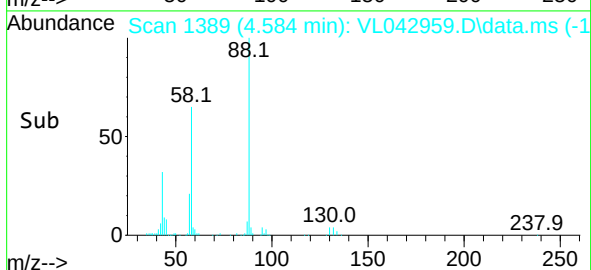
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

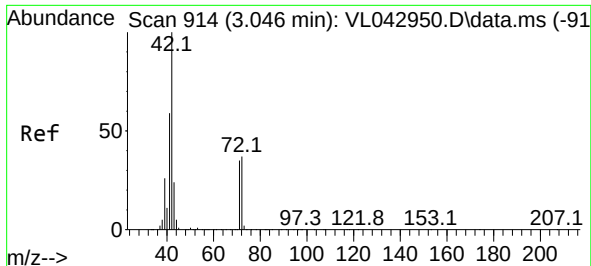


#40
 1,4-Dioxane
 Concen: 9.339 ppbv
 RT: 4.584 min Scan# 1389
 Delta R.T. 0.013 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52



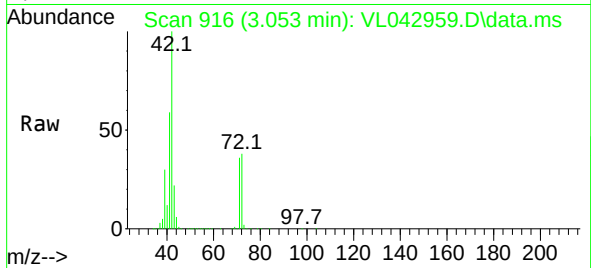
Tgt Ion: 88 Resp: 70833
 Ion Ratio Lower Upper
 88 100
 58 70.8 59.7 89.5
 43 33.0 28.9 43.3
 57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.281 ppbv
RT: 3.053 min Scan# 914
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

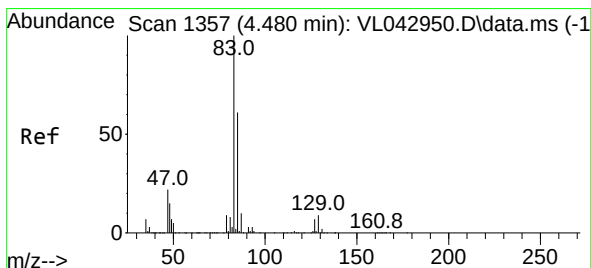
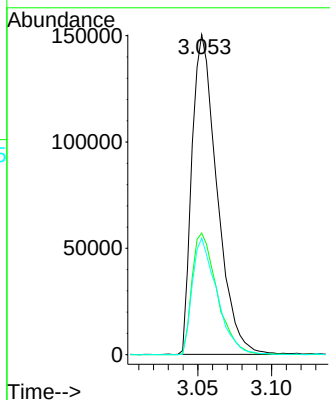
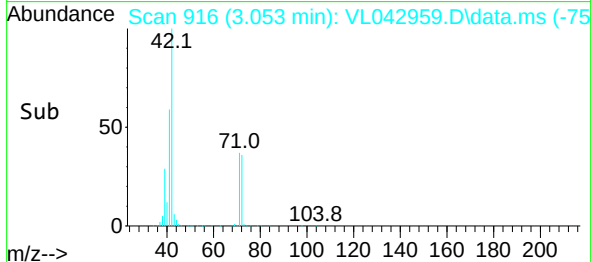
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01



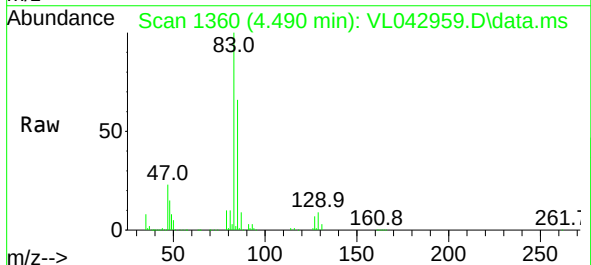
Tgt Ion: 42 Resp: 177879
Ion Ratio Lower Upper
42 100
72 38.3 30.0 45.0
71 35.9 28.8 43.2

Manual Integrations
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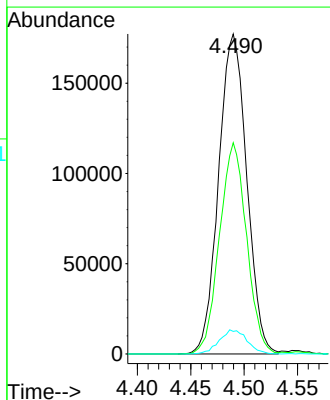
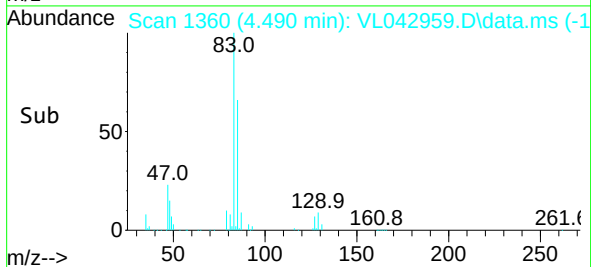
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

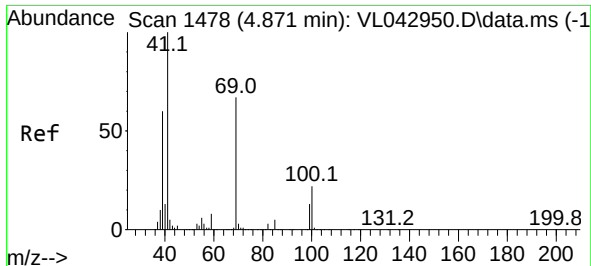


#42
Bromodichloromethane
Concen: 9.924 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.010 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52



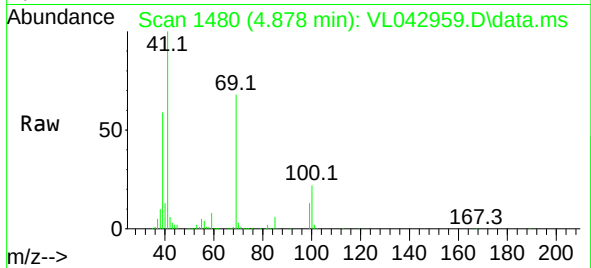
Tgt Ion: 83 Resp: 324757
Ion Ratio Lower Upper
83 100
85 66.0 49.0 73.6
127 7.0 5.3 7.9





#43
Methyl Methacrylate
Concen: 9.250 ppbv
RT: 4.878 min Scan# 1478
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

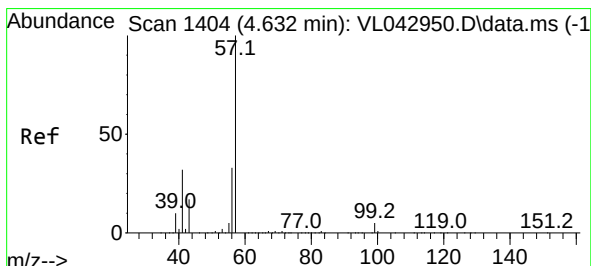
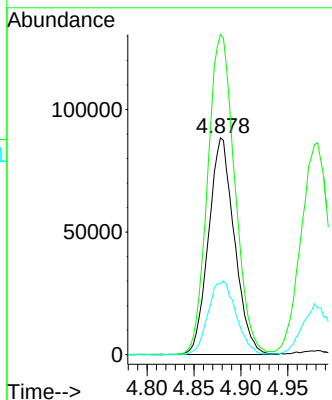
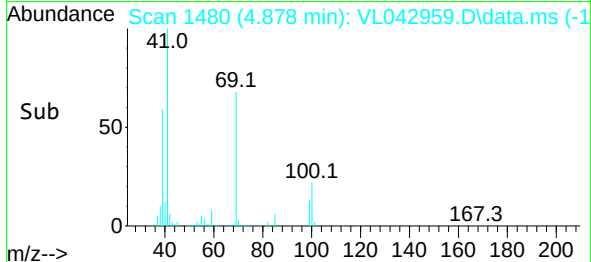
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01



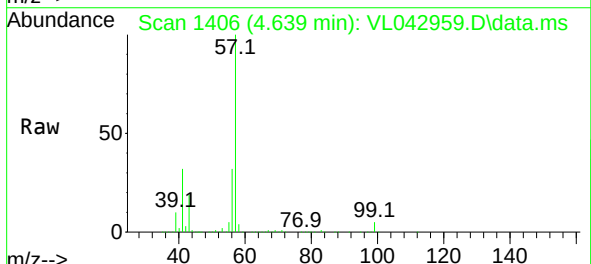
Tgt Ion: 69 Resp: 169093
Ion Ratio Lower Upper
69 100
41 154.7 124.5 186.7
100 36.8 29.0 43.6

Manual Integrations
APPROVED

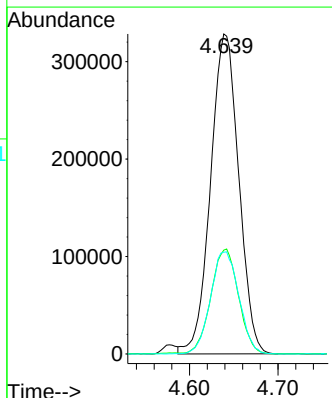
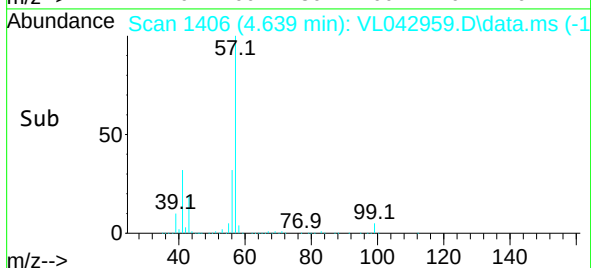
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

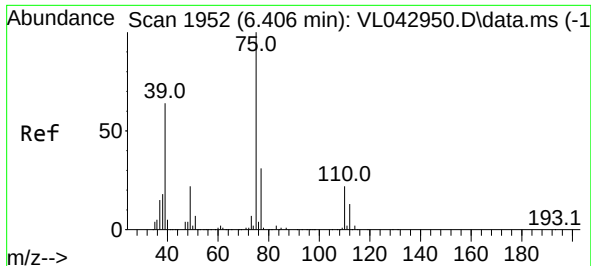


#44
2,2,4-Trimethylpentane
Concen: 9.407 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52



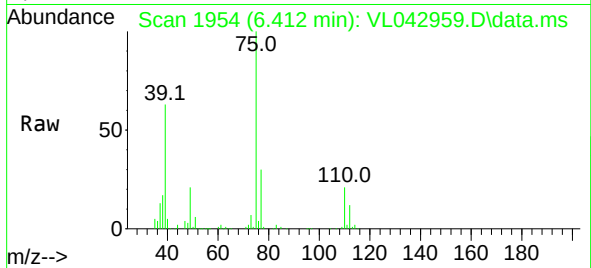
Tgt Ion: 57 Resp: 725943
Ion Ratio Lower Upper
57 100
41 32.3 25.5 38.3
56 32.3 25.8 38.8





#45
 t-1,3-Dichloropropene
 Concen: 9.538 ppbv
 RT: 6.412 min Scan# 1952
 Delta R.T. 0.007 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

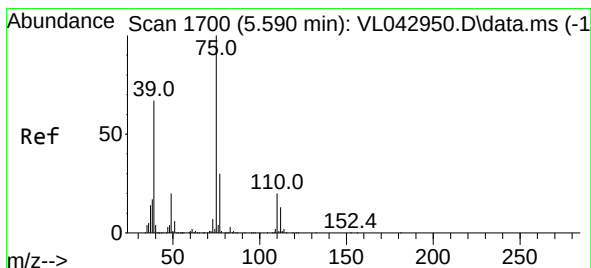
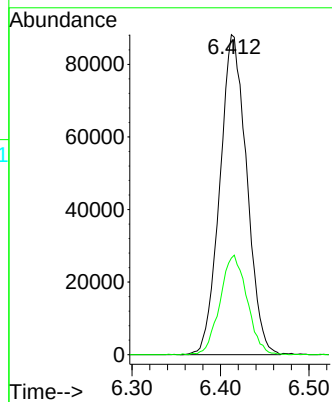
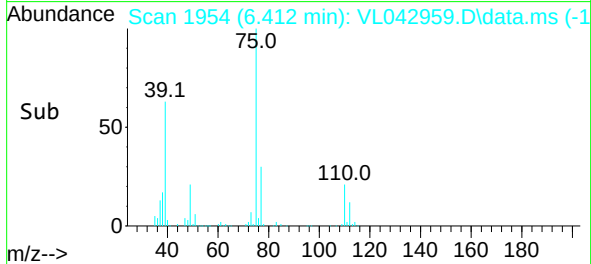
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0922ABS01



Tgt Ion: 75 Resp: 18594
 Ion Ratio Lower Upper
 75 100
 77 30.2 25.0 37.4

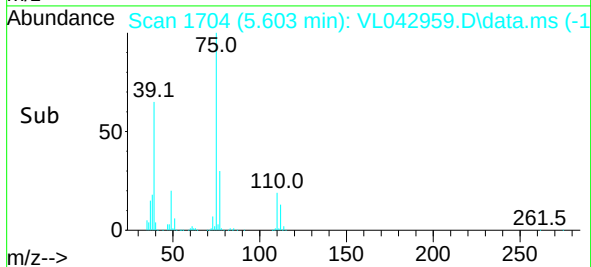
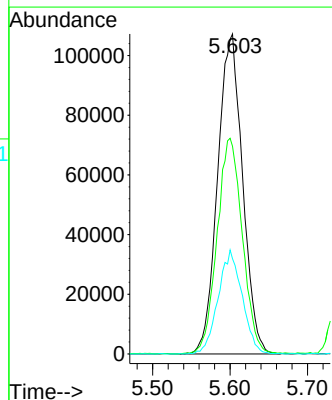
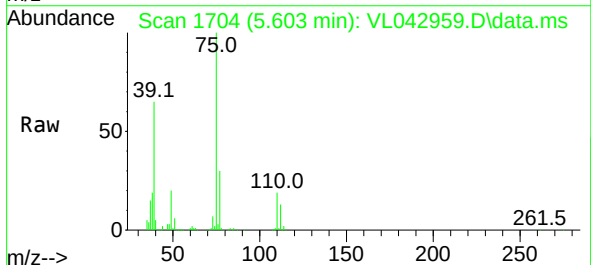
Manual Integrations
 APPROVED

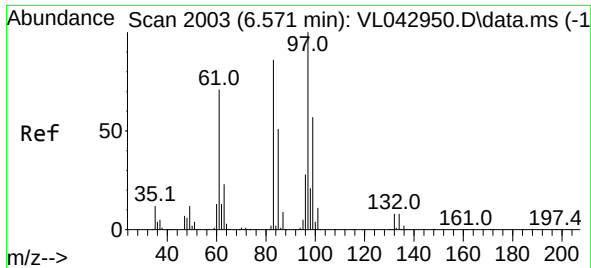
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#46
 cis-1,3-Dichloropropene
 Concen: 9.667 ppbv
 RT: 5.603 min Scan# 1704
 Delta R.T. 0.013 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

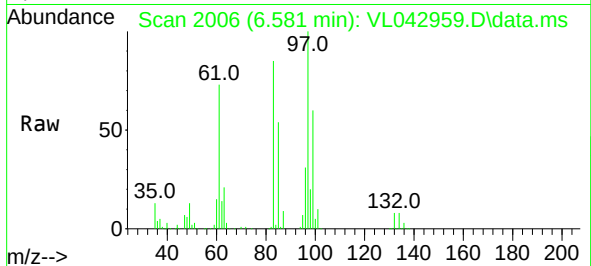
Tgt Ion: 75 Resp: 240185
 Ion Ratio Lower Upper
 75 100
 39 64.8 53.8 80.6
 77 29.7 23.6 35.4





#47
1,1,2-Trichloroethane
Concen: 9.580 ppbv
RT: 6.581 min Scan# 2006
Delta R.T. 0.010 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

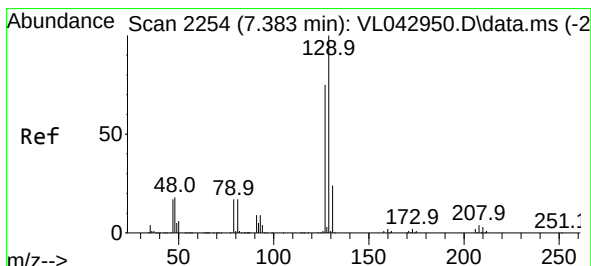
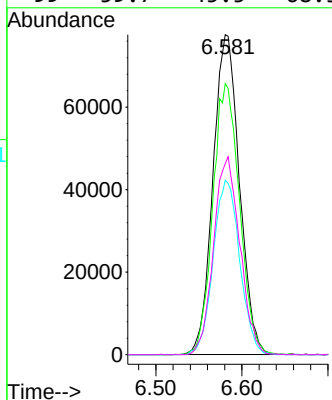
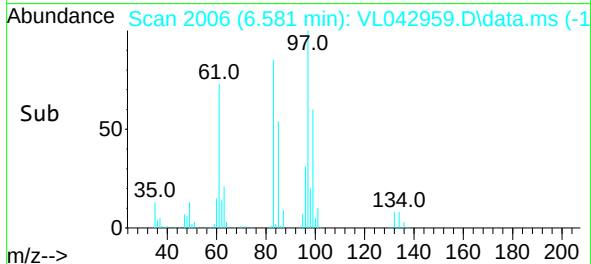
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01



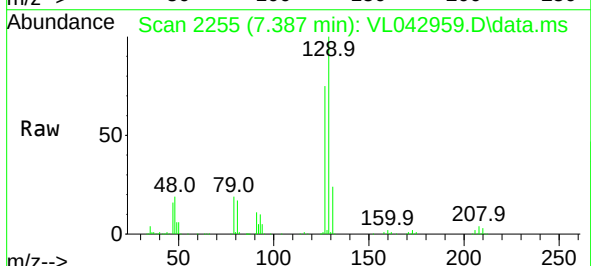
Tgt Ion: 97 Resp: 165100
Ion Ratio Lower Upper
97 100
83 84.8 68.7 103.1
85 54.5 40.6 60.8
99 59.7 45.5 68.3

Manual Integrations
APPROVED

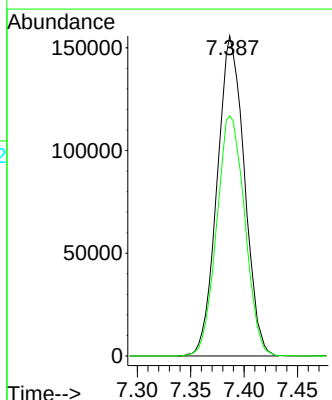
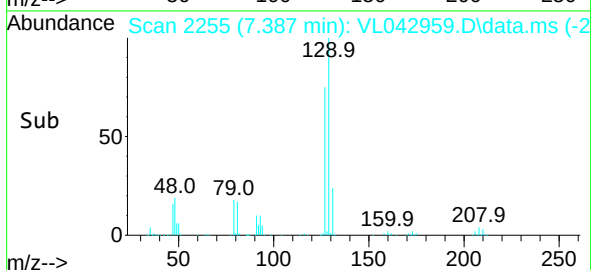
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

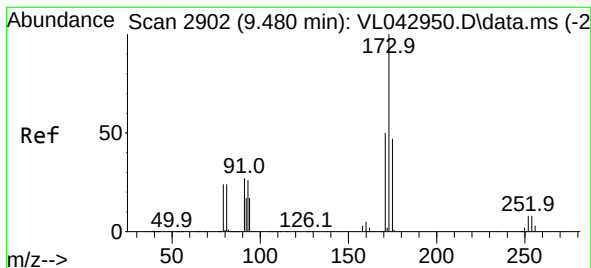


#48
Dibromochloromethane
Concen: 10.002 ppbv
RT: 7.387 min Scan# 2255
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52



Tgt Ion:129 Resp: 275781
Ion Ratio Lower Upper
129 100
127 77.6 39.1 117.2





#49

Bromoform

Concen: 9.800 ppbv

RT: 9.484 min Scan# 2902

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

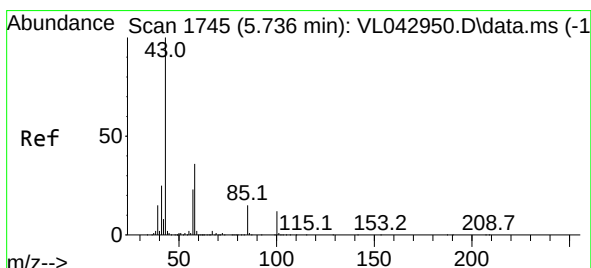
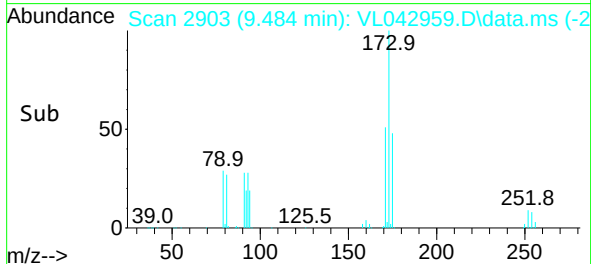
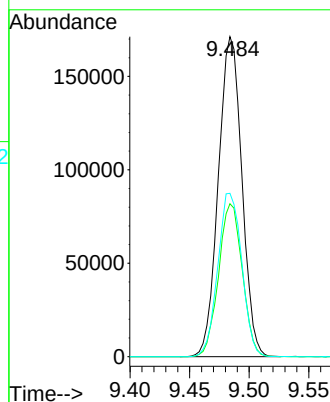
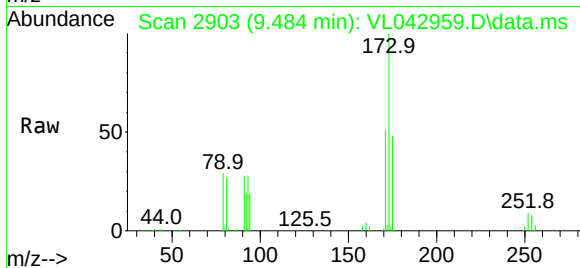
VL0922ABS01

Tgt Ion:173 Resp: 235060
 Ion Ratio Lower Upper
 173 100
 175 48.0 37.9 56.9
 171 52.1 41.1 61.7

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Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#50

4-Methyl-2-Pentanone

Concen: 9.645 ppbv

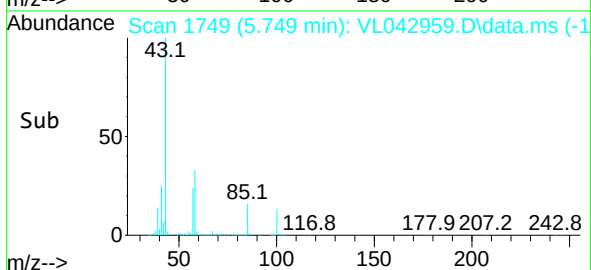
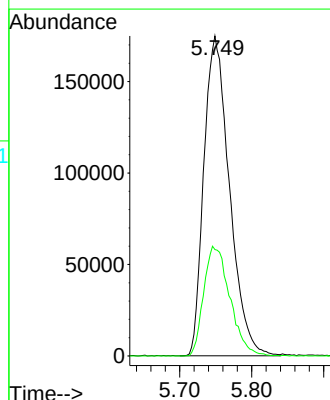
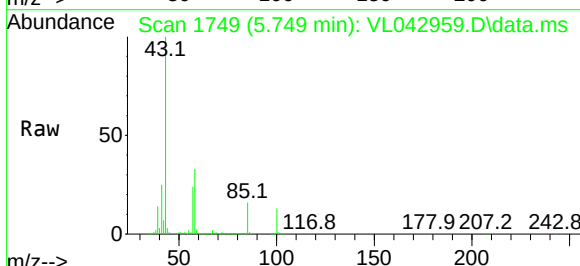
RT: 5.749 min Scan# 1749

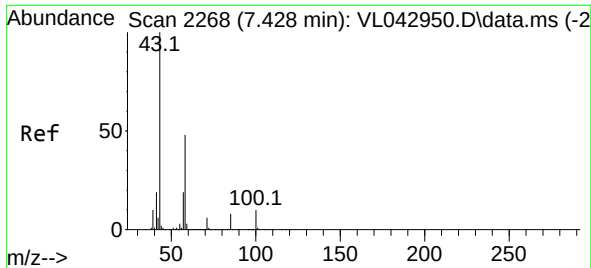
Delta R.T. 0.013 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

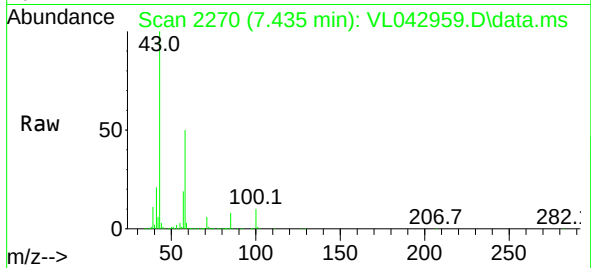
Tgt Ion: 43 Resp: 431031
 Ion Ratio Lower Upper
 43 100
 58 35.1 28.4 42.6





#51
2-Hexanone
Concen: 9.641 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

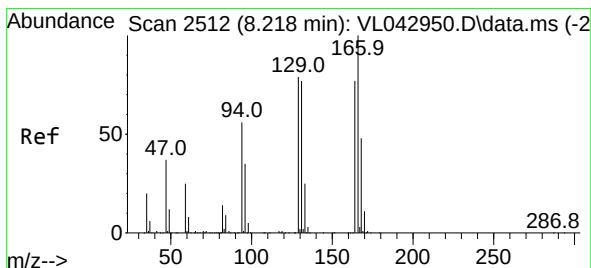
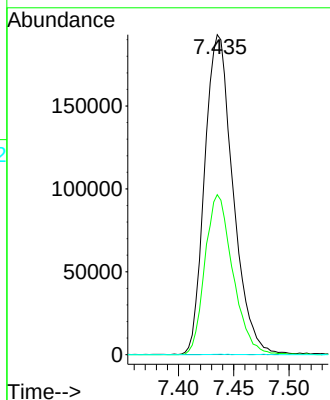
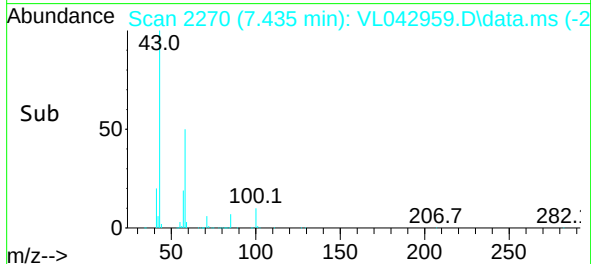
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01



Tgt Ion: 43 Resp: 34346
Ion Ratio Lower Upper
43 100
58 49.4 39.7 59.5
98 0.1 0.1 0.1

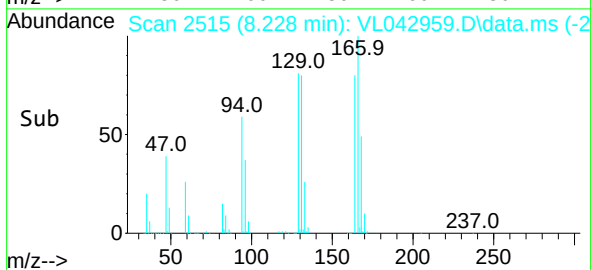
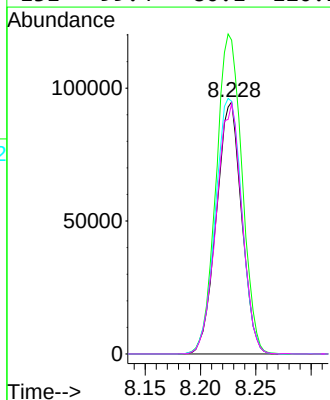
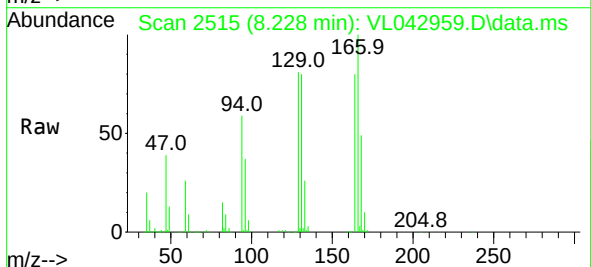
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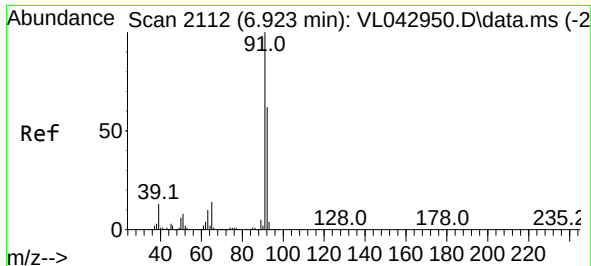
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#52
Tetrachloroethene
Concen: 8.705 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.010 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion:164 Resp: 150483
Ion Ratio Lower Upper
164 100
166 124.5 103.5 155.3
129 100.2 82.2 123.4
131 99.4 80.1 120.1





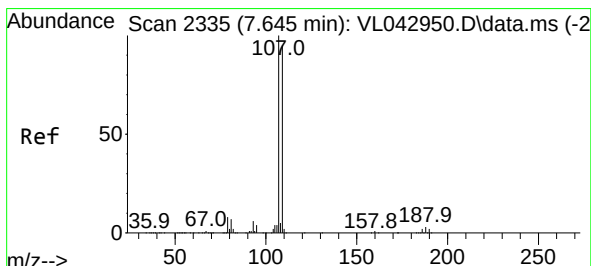
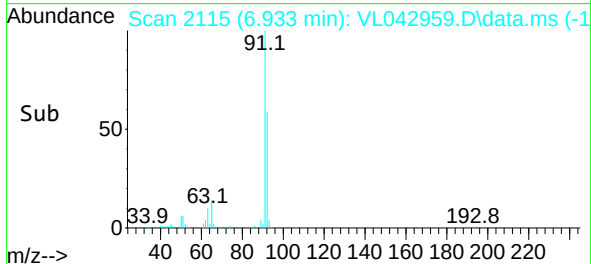
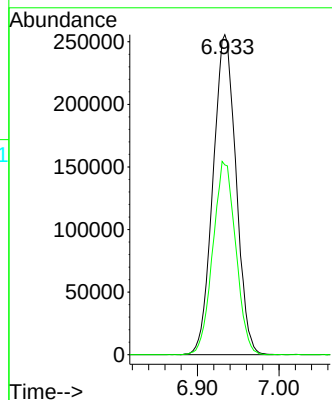
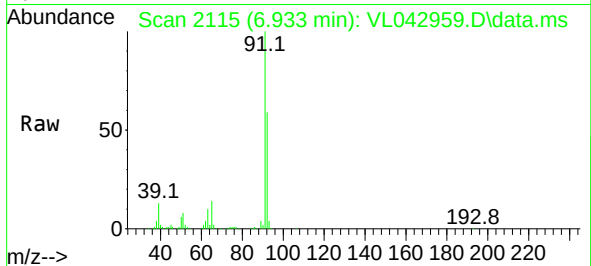
#53
Toluene
Concen: 9.484 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.010 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01

Tgt Ion: 91 Resp: 501548
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.2

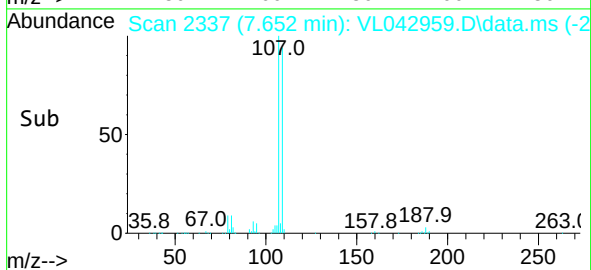
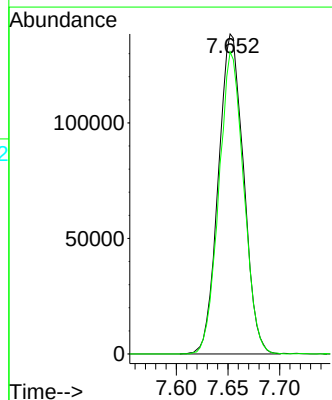
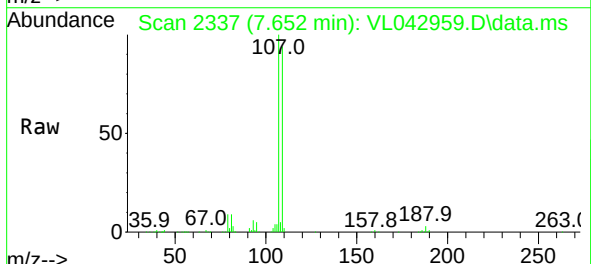
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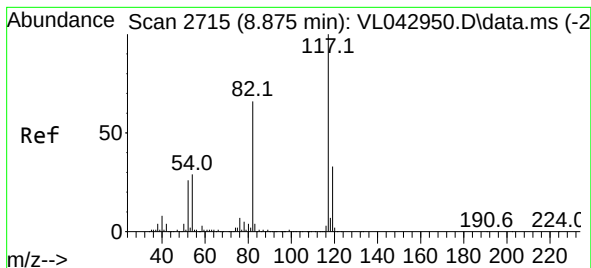
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#54
1,2-Dibromoethane
Concen: 9.704 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion:107 Resp: 235389
Ion Ratio Lower Upper
107 100
109 94.4 75.8 113.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2715

Delta R.T. 0.007 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

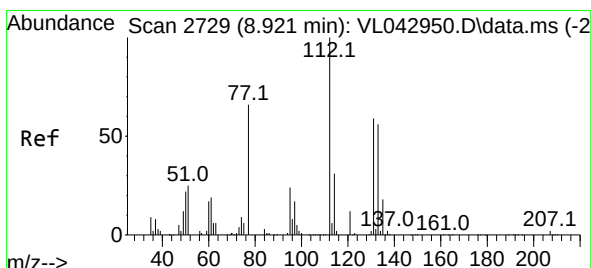
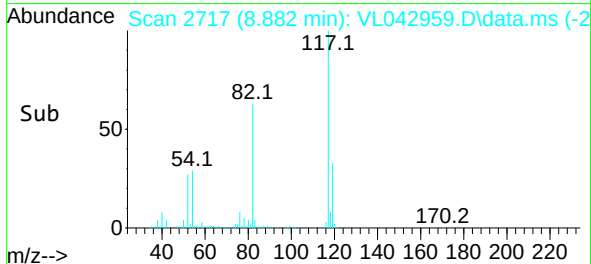
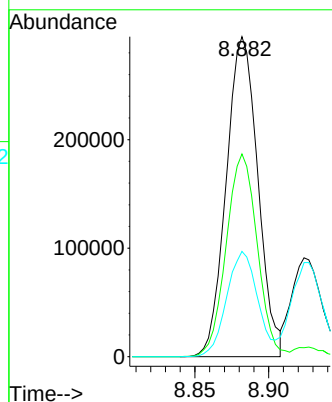
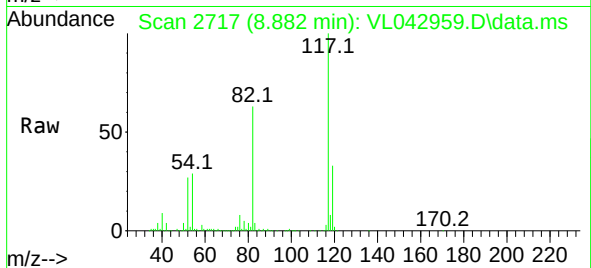
VL0922ABS01

Tgt Ion:	117	Resp:	44032
Ion Ratio	Lower	Upper	
117	100		
82	64.7	52.8	79.2
119	32.3	26.5	39.7

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 9.516 ppbv

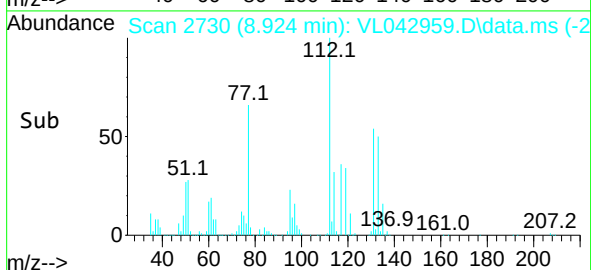
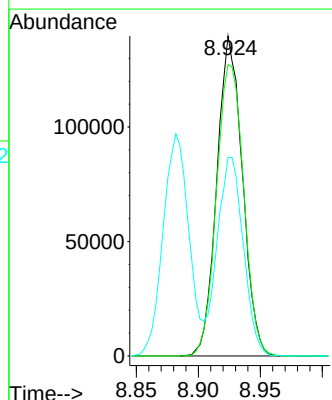
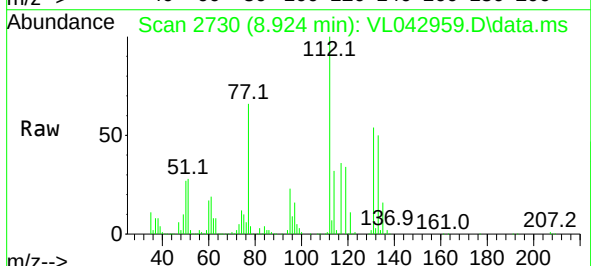
RT: 8.924 min Scan# 2730

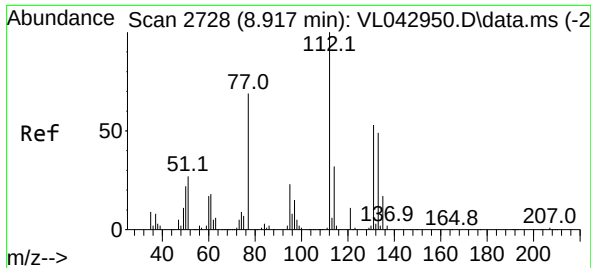
Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

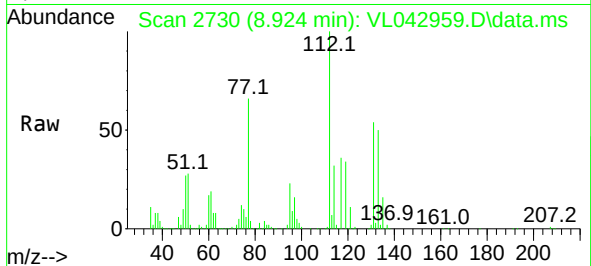
Tgt Ion:	131	Resp:	200560
Ion Ratio	Lower	Upper	
131	100		
133	97.0	76.6	114.8
119	64.8	49.9	74.9





#57
Chlorobenzene
Concen: 9.392 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

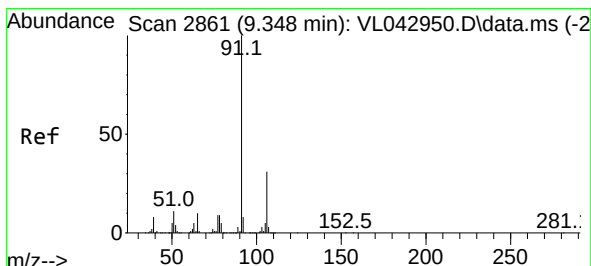
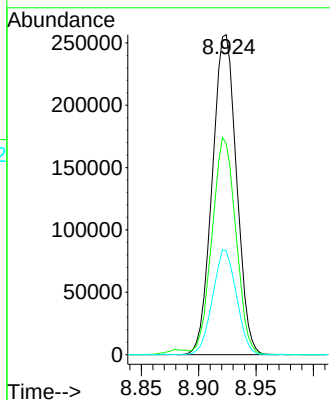
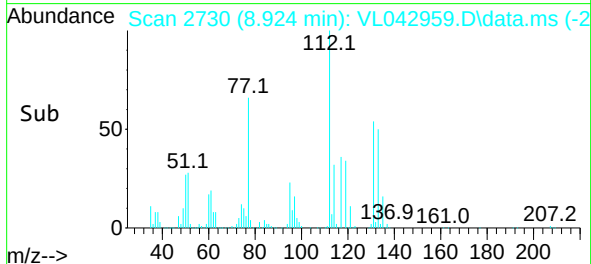
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01



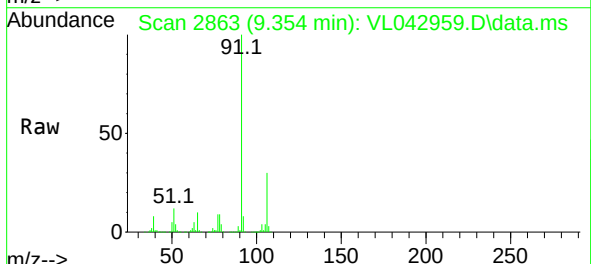
Tgt Ion: 112 Resp: 377524
Ion Ratio Lower Upper
112 100
77 65.9 55.7 83.5
114 32.4 28.6 35.0

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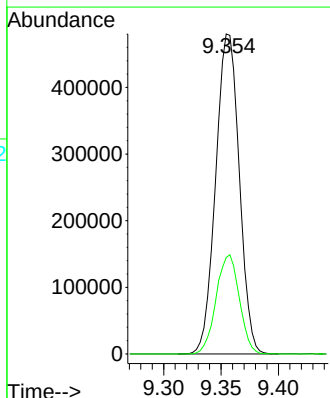
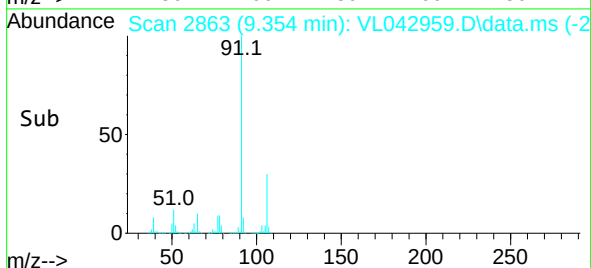
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

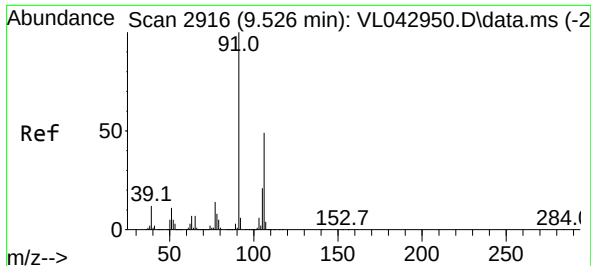


#58
Ethyl Benzene
Concen: 9.489 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52



Tgt Ion: 91 Resp: 686057
Ion Ratio Lower Upper
91 100
106 30.1 24.6 37.0





#59

m/p-Xylene

Concen: 18.862 ppbv

RT: 9.532 min Scan# 2916

Delta R.T. 0.007 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

VL0922ABS01

Tgt Ion: 91 Resp: 107518

Ion Ratio Lower Upper

91 100

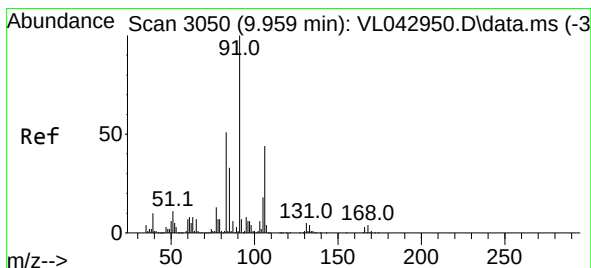
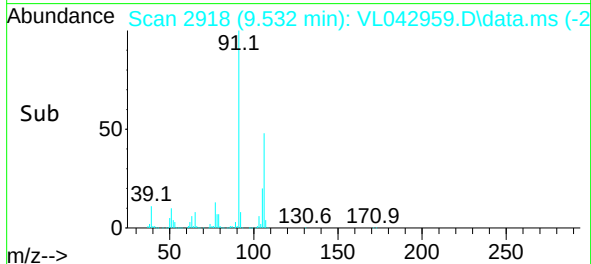
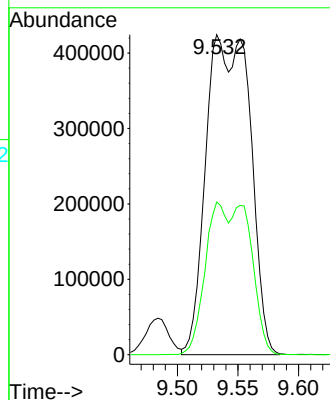
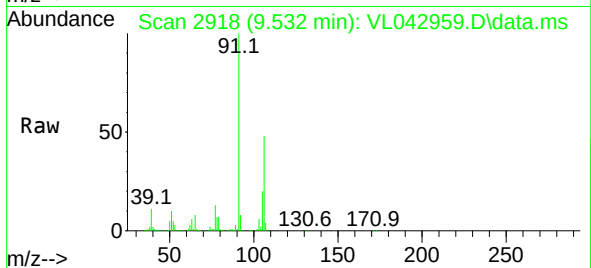
106 47.9 0.0 0.0

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#60

o-Xylene

Concen: 9.426 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.007 min

Lab File: VL042959.D

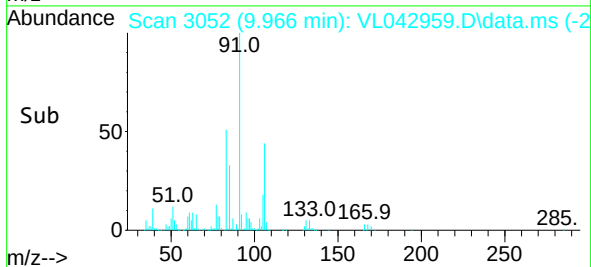
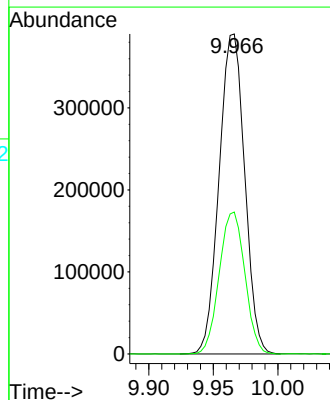
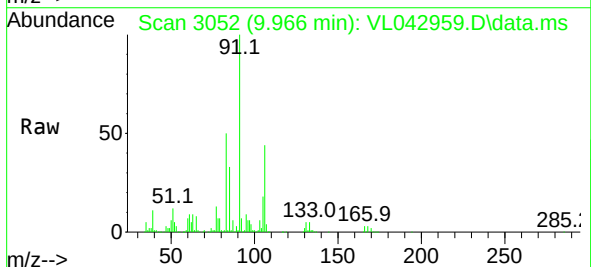
Acq: 22 Sep 2025 15:52

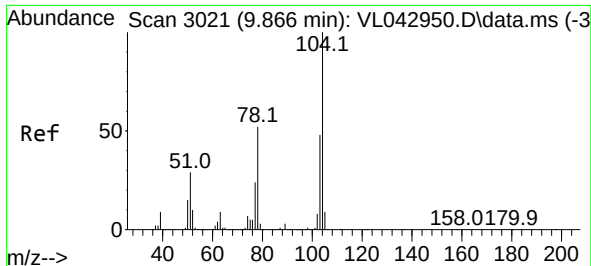
Tgt Ion: 91 Resp: 537008

Ion Ratio Lower Upper

91 100

106 44.4 22.4 67.0





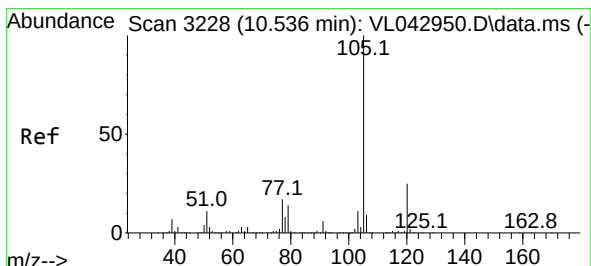
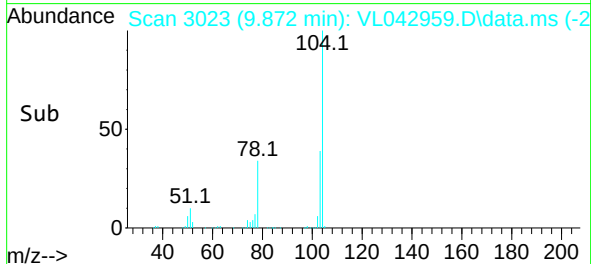
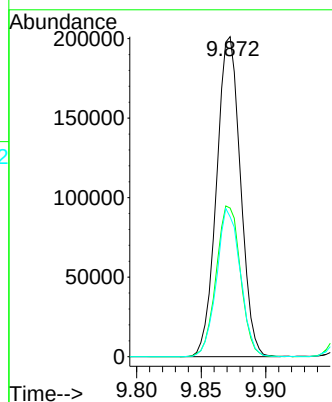
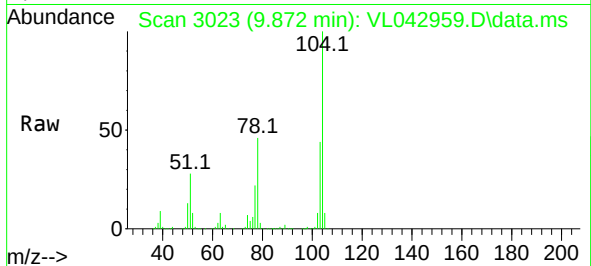
#61
Styrene
Concen: 9.602 ppbv
RT: 9.872 min Scan# 3021
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01

Tgt Ion:104 Resp: 258750
Ion Ratio Lower Upper
104 100
78 48.0 39.9 59.9
103 46.0 36.9 55.3

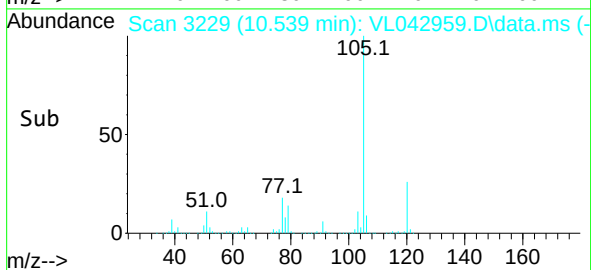
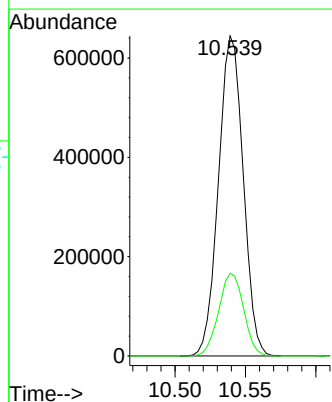
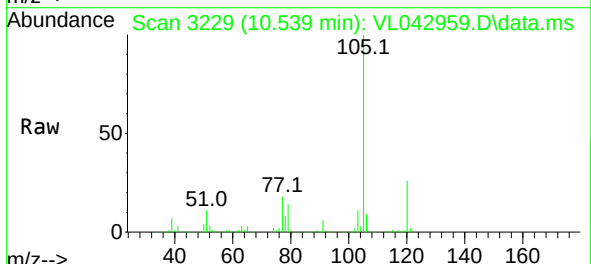
Manual Integrations
APPROVED

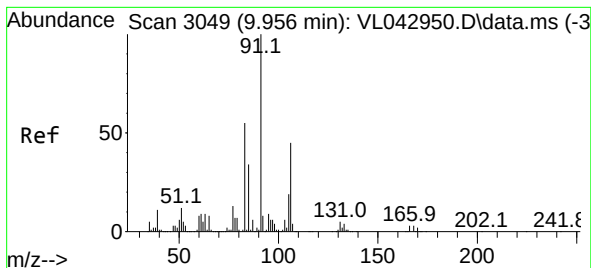
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#62
Isopropylbenzene
Concen: 9.274 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

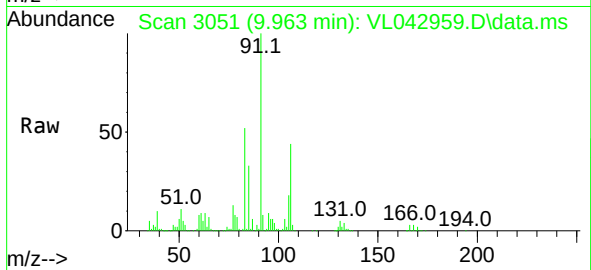
Tgt Ion:105 Resp: 787602
Ion Ratio Lower Upper
105 100
120 26.1 20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 8.890 ppbv
RT: 9.963 min Scan# 3049
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

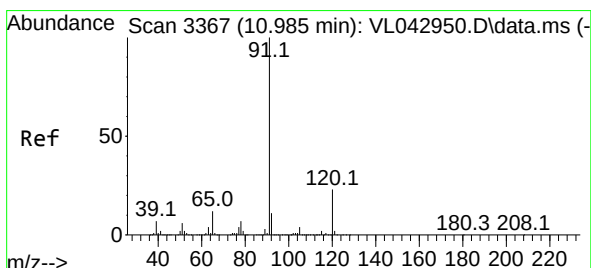
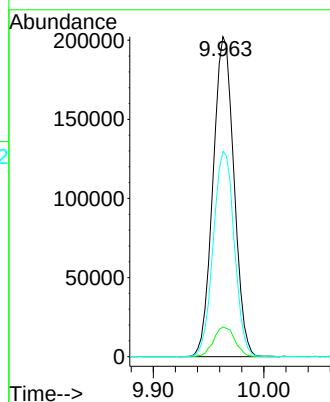
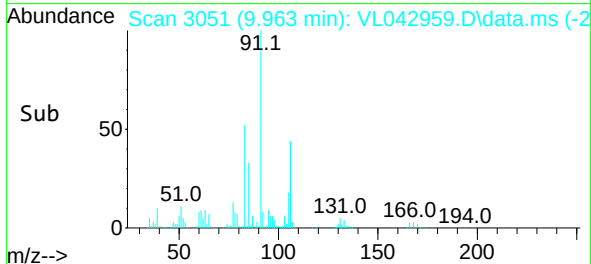
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01



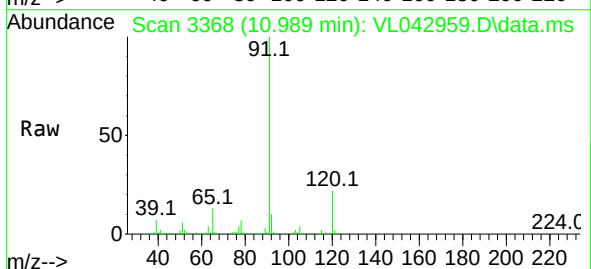
Tgt Ion: 83 Resp: 26622
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.4
85 64.5 32.2 96.6

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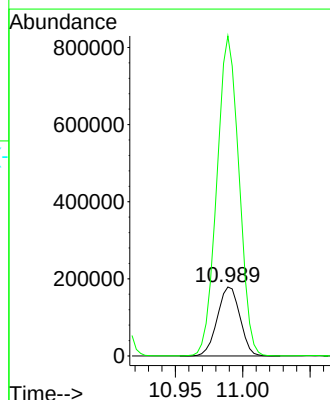
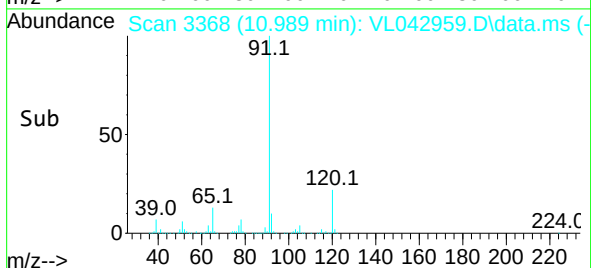
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

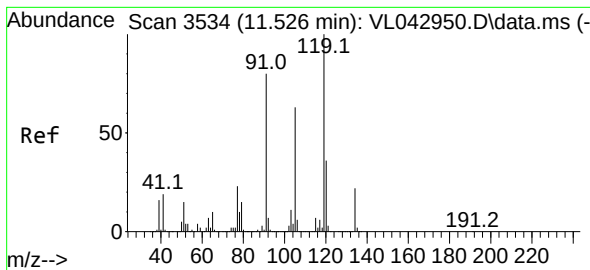


#64
n-propylbenzene
Concen: 9.389 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52



Tgt Ion:120 Resp: 208358
Ion Ratio Lower Upper
120 100
91 454.9 364.9 547.3





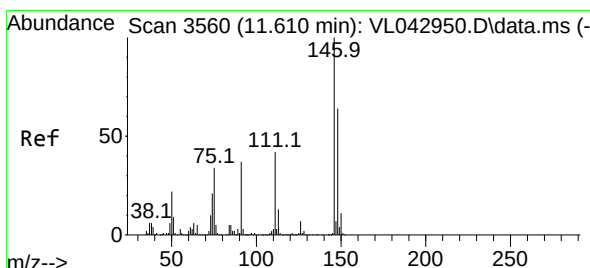
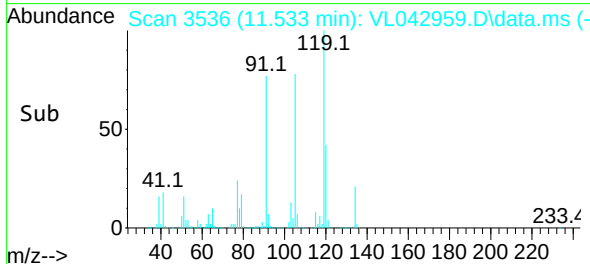
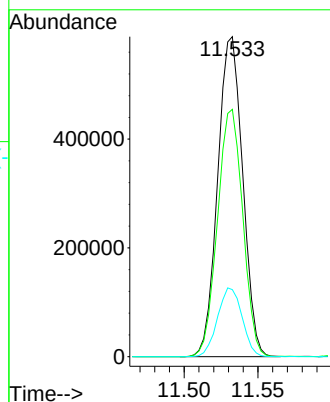
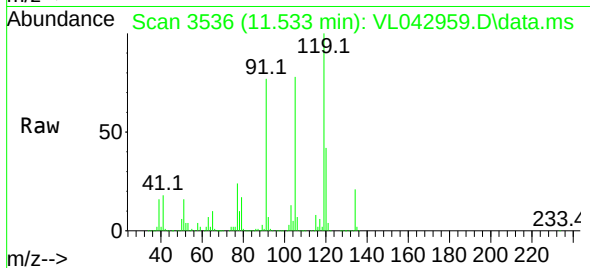
#65
tert-Butylbenzene
Concen: 9.188 ppbv
RT: 11.533 min Scan# 3533
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01

Tgt Ion:119 Resp: 69403
Ion Ratio Lower Upper
119 100
91 78.2 63.1 94.7
134 21.2 17.0 25.6

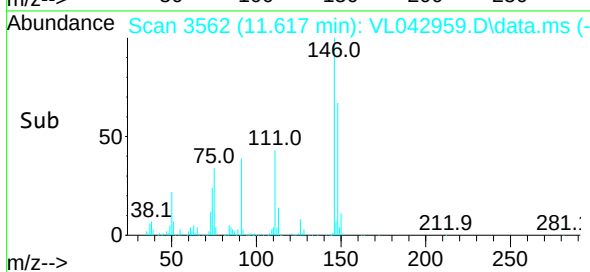
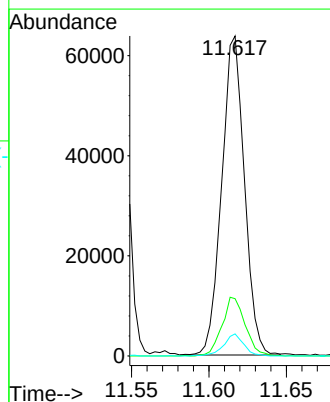
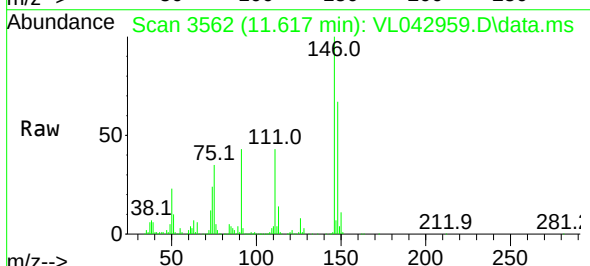
Manual Integrations
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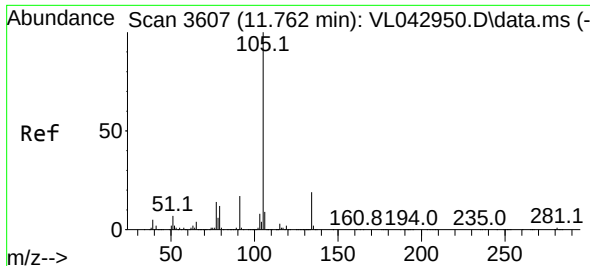
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#66
Benzyl Chloride
Concen: 8.196 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 91 Resp: 64955
Ion Ratio Lower Upper
91 100
126 18.8 14.6 21.8
128 6.2 5.0 7.4





#67

sec-Butylbenzene

Concen: 9.261 ppbv

RT: 11.769 min Scan# 30

Delta R.T. 0.007 min

Lab File: VL042959.D

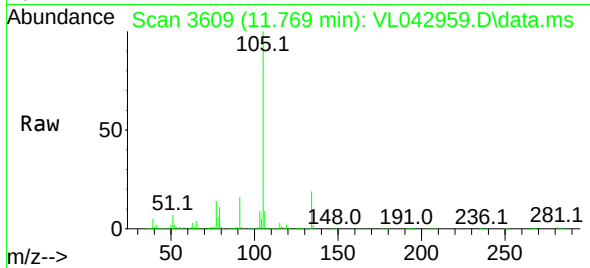
Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

VL0922ABS01



Tgt Ion:105 Resp: 974750

Ion Ratio Lower Upper

105 100

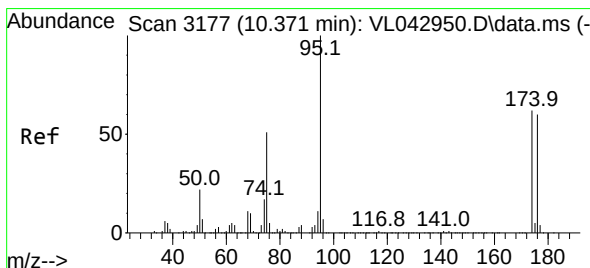
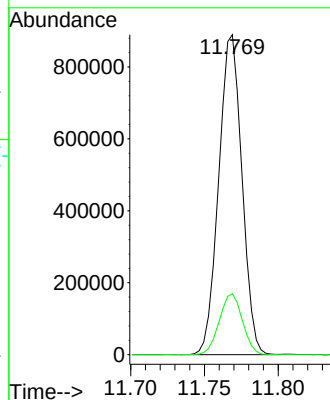
134 19.0 15.7 23.5

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.025 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.007 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

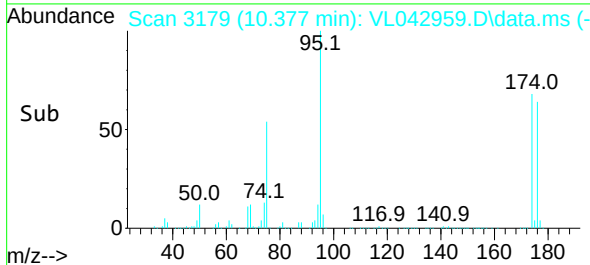
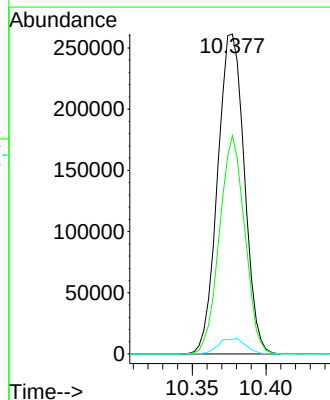
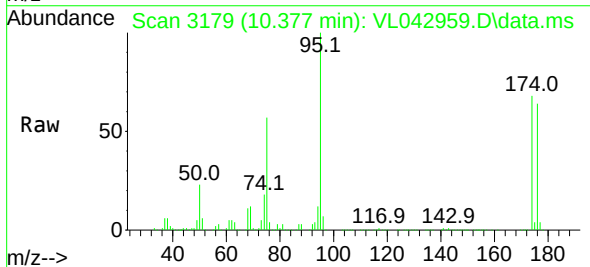
Tgt Ion: 95 Resp: 329520

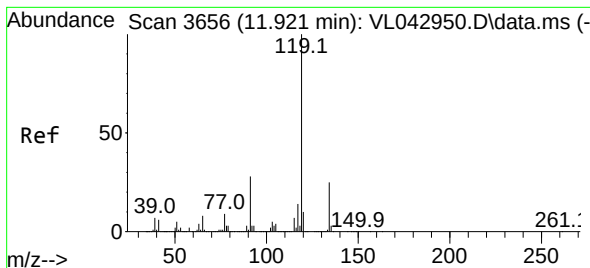
Ion Ratio Lower Upper

95 100

174 64.8 51.4 77.2

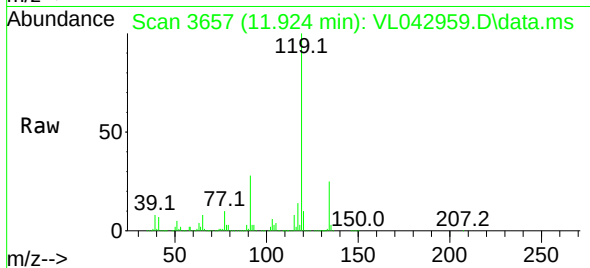
175 5.0 4.0 6.0





#69
p-Isopropyltoluene
Concen: 9.229 ppbv
RT: 11.924 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

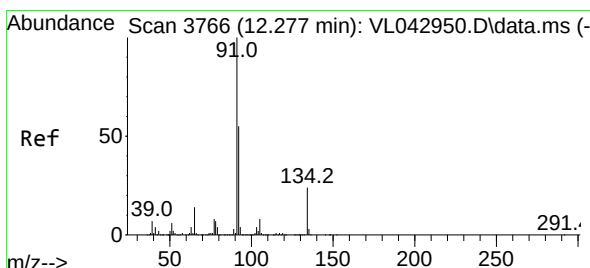
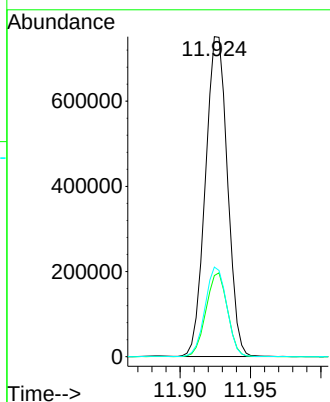
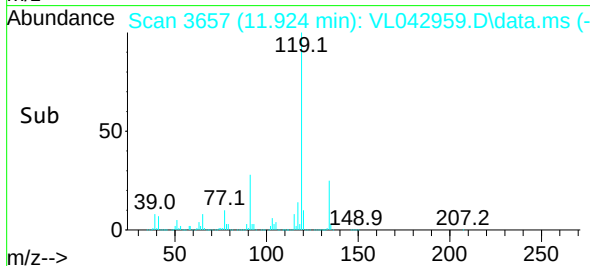
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01



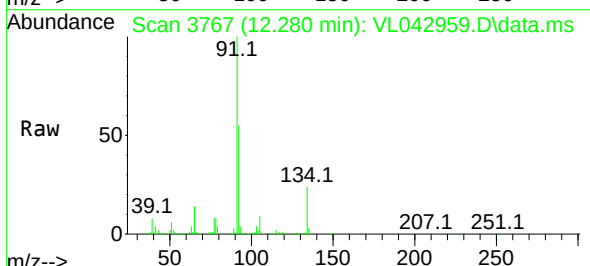
Tgt Ion:119 Resp: 820532
Ion Ratio Lower Upper
119 100
134 25.5 21.0 31.4
91 27.7 22.3 33.5

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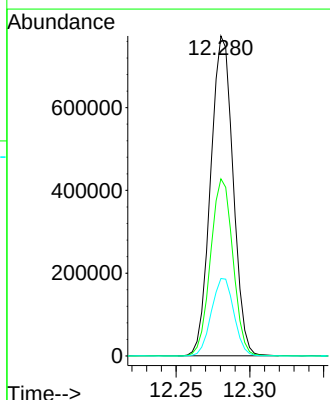
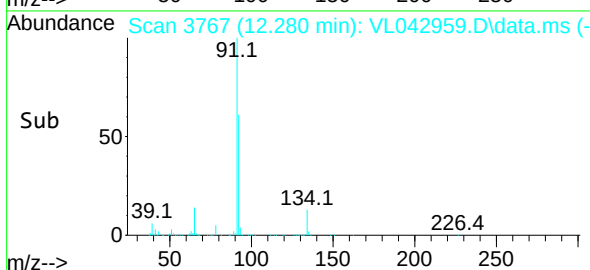
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

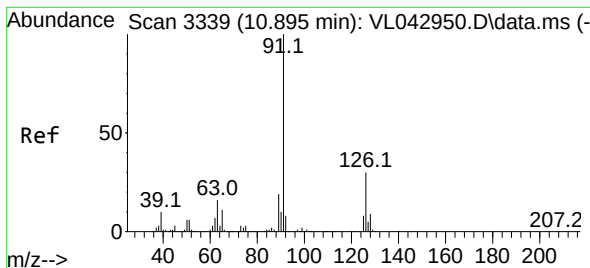


#70
n-Butylbenzene
Concen: 9.434 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52



Tgt Ion: 91 Resp: 818866
Ion Ratio Lower Upper
91 100
92 55.3 44.0 66.0
134 24.3 19.4 29.2





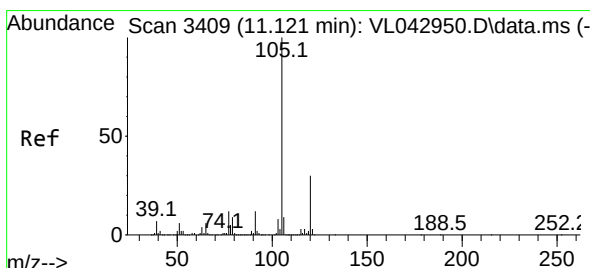
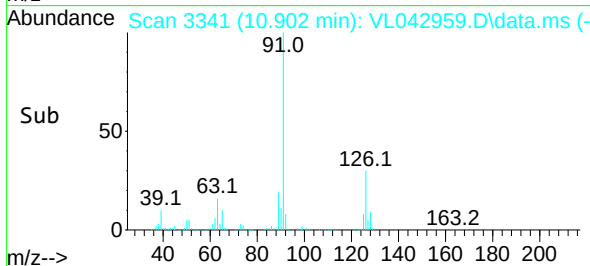
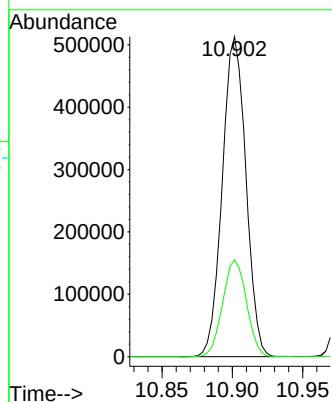
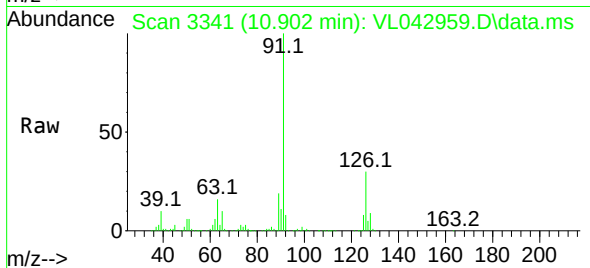
#71
2-Chlorotoluene
Concen: 9.336 ppbv
RT: 10.902 min Scan# 31
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01

Tgt Ion: 91 Resp: 598619
Ion Ratio Lower Upper
91 100
126 30.6 12.3 49.3

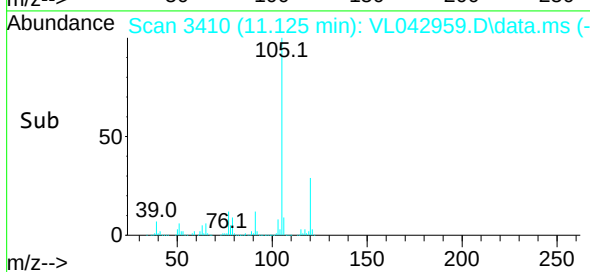
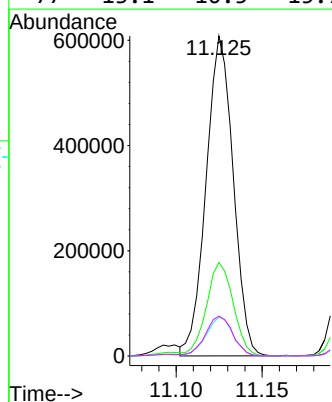
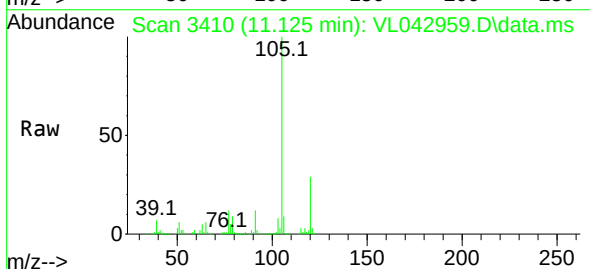
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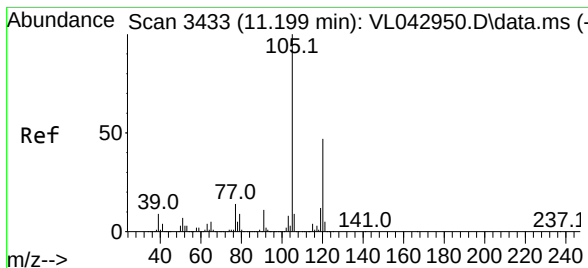
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#72
4-Ethyltoluene
Concen: 9.332 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

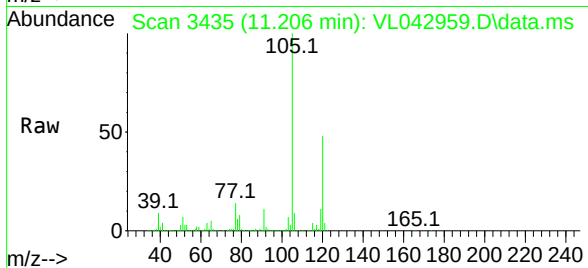
Tgt Ion:105 Resp: 665916
Ion Ratio Lower Upper
105 100
120 30.0 24.2 36.2
91 12.5 10.0 15.0
77 13.1 10.5 15.7





#73
1,3,5-Trimethylbenzene
Concen: 9.539 ppbv
RT: 11.206 min Scan# 3433
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

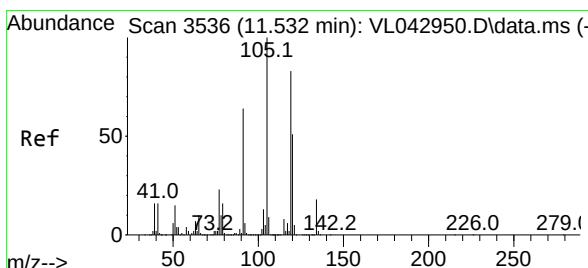
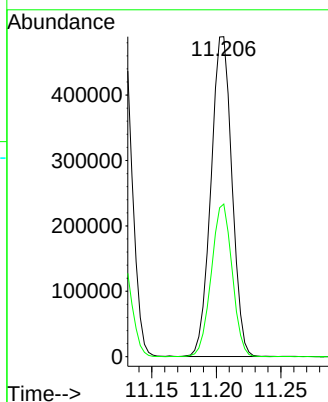
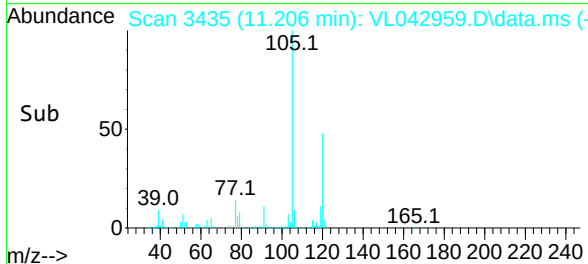
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01



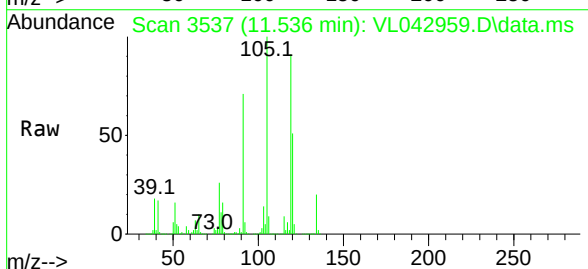
Tgt Ion:105 Resp: 552039
Ion Ratio Lower Upper
105 100
120 47.7 38.0 57.0

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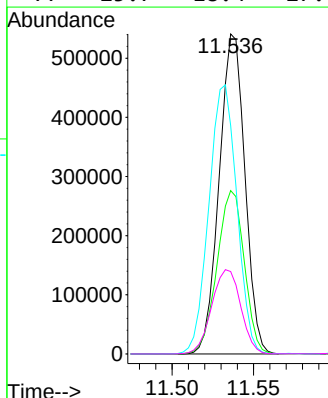
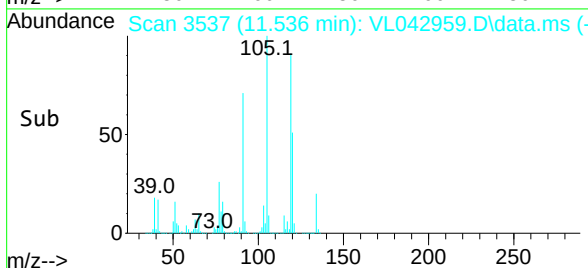
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

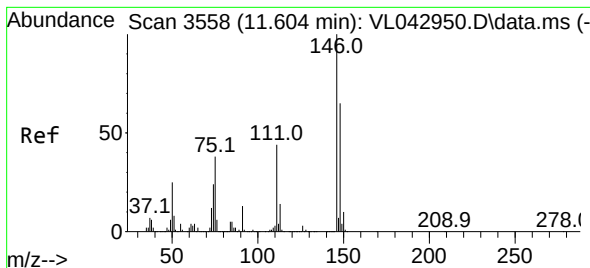


#74
1,2,4-Trimethylbenzene
Concen: 9.277 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52



Tgt Ion:105 Resp: 592889
Ion Ratio Lower Upper
105 100
120 51.0 40.9 61.3
91 71.2 51.2 76.8
77 25.7 18.4 27.6





#75

1,3-Dichlorobenzene

Concen: 9.299 ppbv

RT: 11.607 min Scan# 3558

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

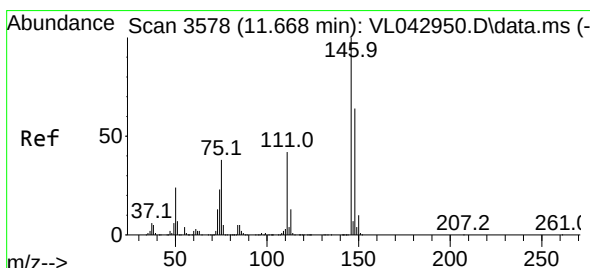
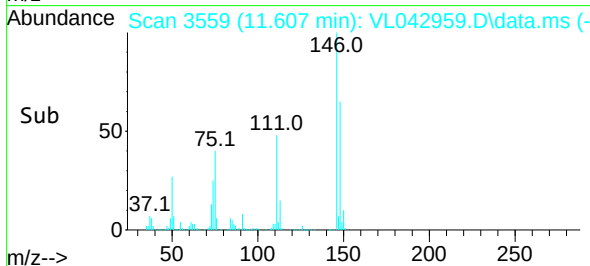
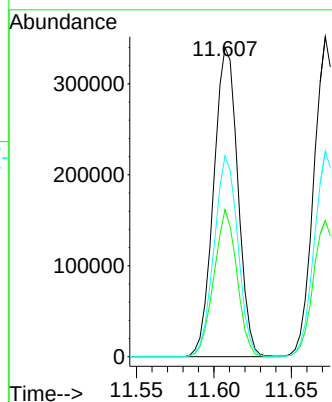
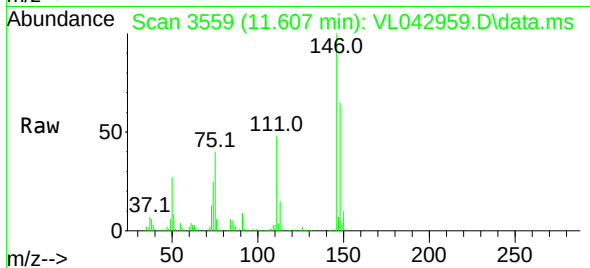
VL0922ABS01

Tgt Ion:	146	Resp:	368544
Ion Ratio	Lower	Upper	
146	100		
111	45.3	22.3	66.9
148	64.0	31.9	95.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#76

1,4-Dichlorobenzene

Concen: 9.397 ppbv

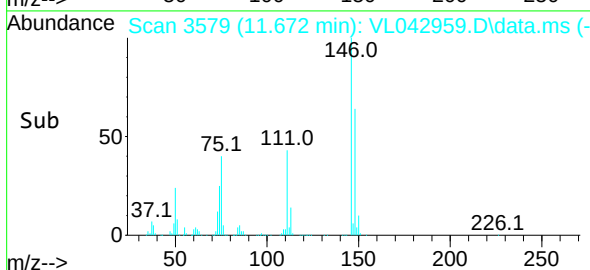
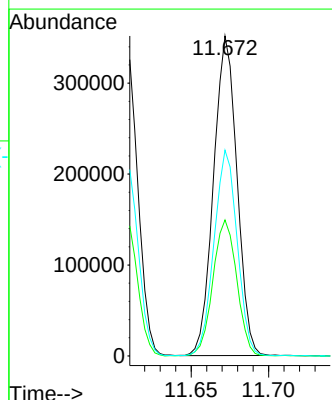
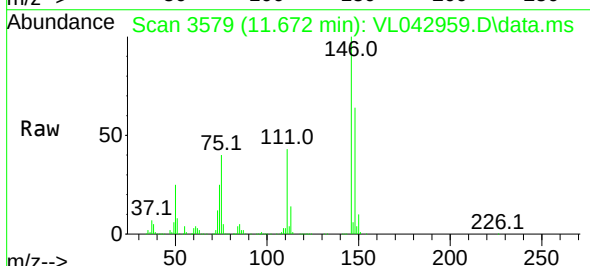
RT: 11.672 min Scan# 3579

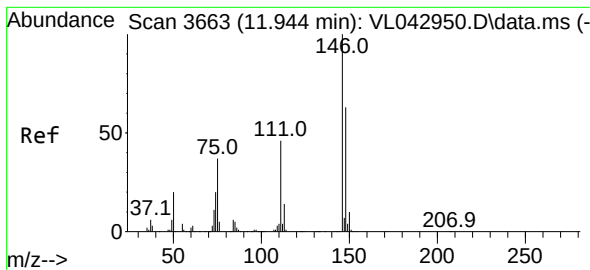
Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Tgt Ion:	146	Resp:	369921
Ion Ratio	Lower	Upper	
146	100		
111	43.5	21.5	64.5
148	64.1	31.9	95.5





#77

1,2-Dichlorobenzene

Concen: 9.288 ppbv

RT: 11.947 min Scan# 3663

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

VL0922ABS01

Tgt Ion:146 Resp: 35026

Ion Ratio Lower Upper

146 100

111 46.6 23.1 69.3

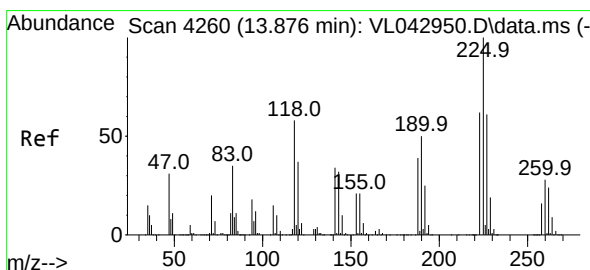
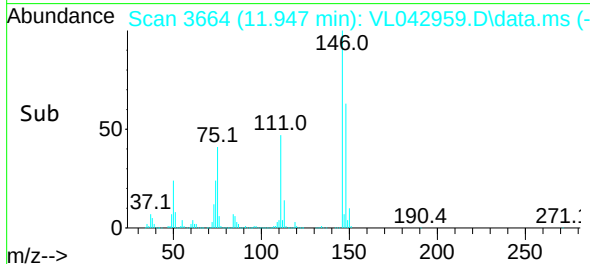
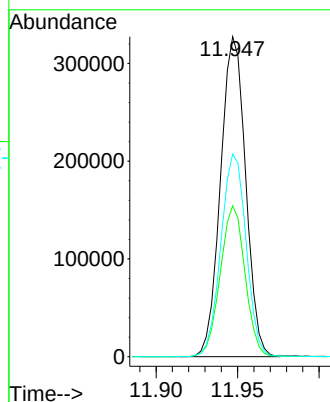
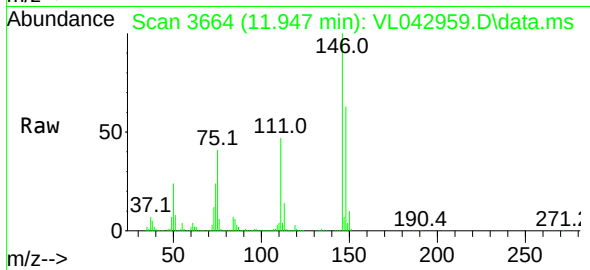
148 63.8 32.0 96.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#78

Hexachloro-1,3-Butadiene

Concen: 8.366 ppbv

RT: 13.882 min Scan# 4262

Delta R.T. 0.007 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

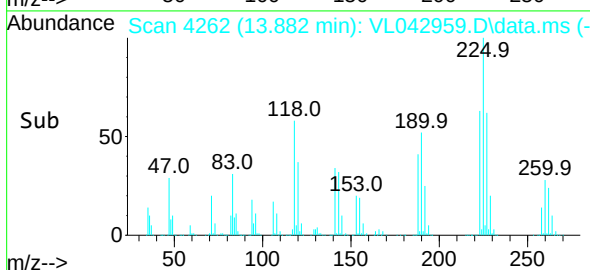
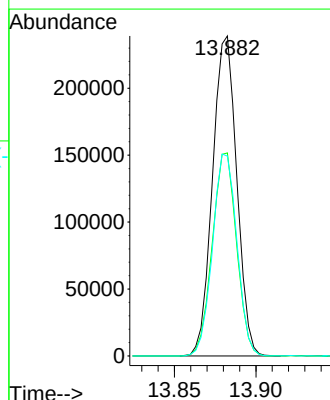
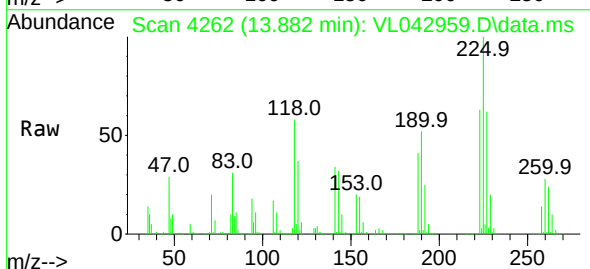
Tgt Ion:225 Resp: 246743

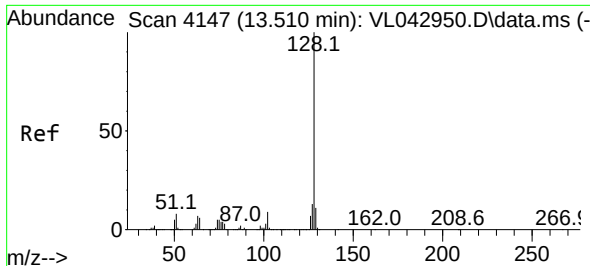
Ion Ratio Lower Upper

225 100

223 63.7 50.1 75.1

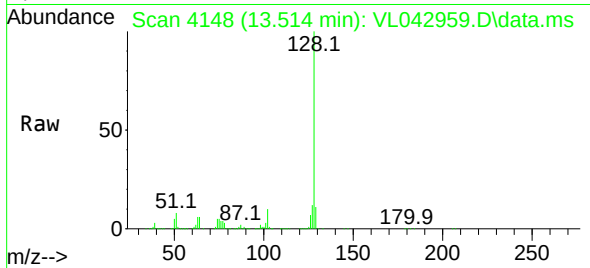
227 63.6 50.4 75.6





#79
Naphthalene
Concen: 10.259 ppbv
RT: 13.514 min Scan# 4147
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

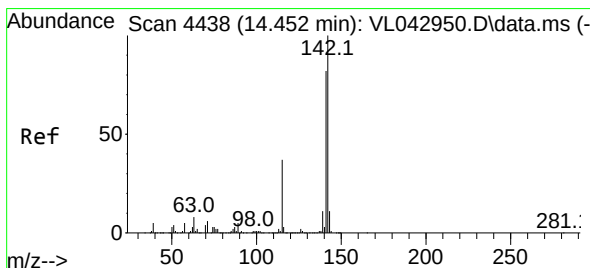
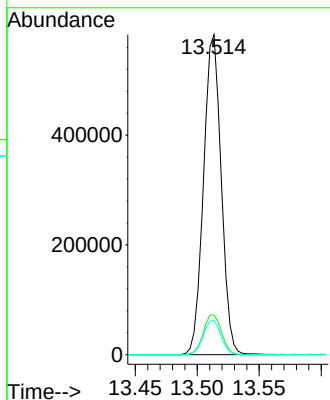
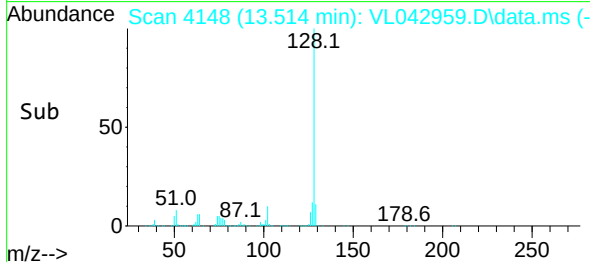
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01



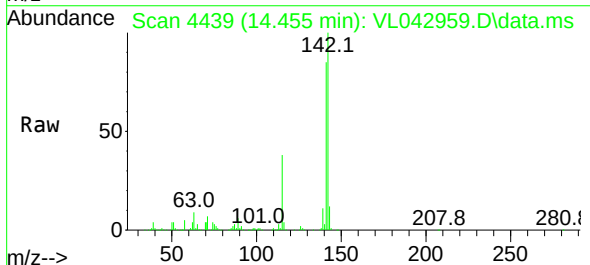
Tgt Ion:128 Resp: 579760
Ion Ratio Lower Upper
128 100
127 12.4 10.6 15.8
129 10.8 9.0 13.6

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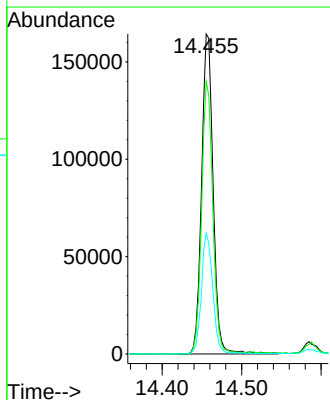
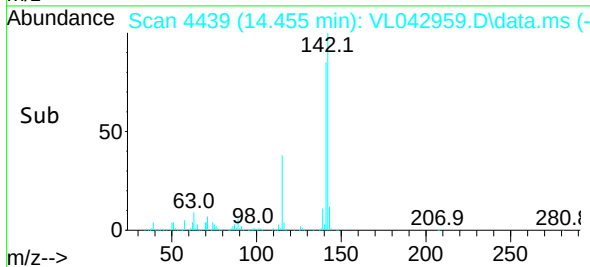
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

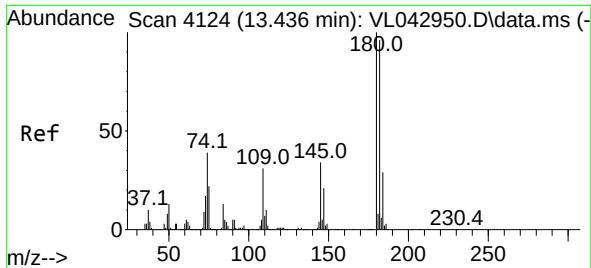


#80
Naphthalene,2-methyl-
Concen: 9.581 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52



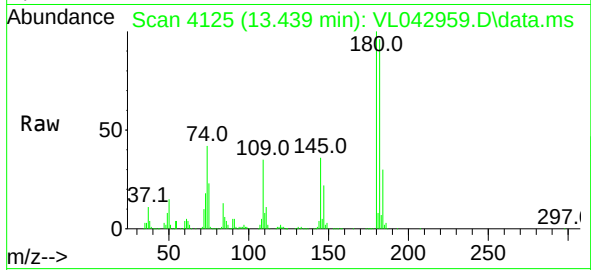
Tgt Ion:142 Resp: 167256
Ion Ratio Lower Upper
142 100
141 82.9 65.1 97.7
115 37.4 28.9 43.3





#81
 1,2,4-Trichlorobenzene
 Concen: 9.958 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

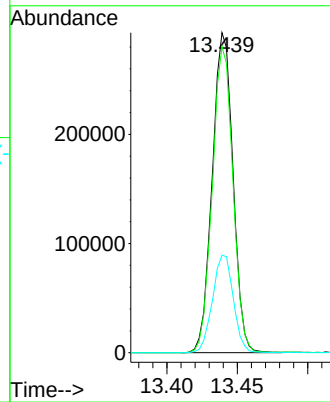
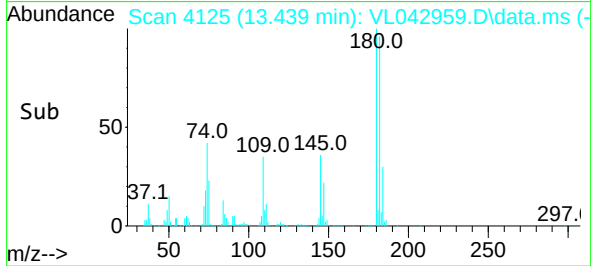
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0922ABS01



Tgt Ion:180 Resp: 300870
 Ion Ratio Lower Upper
 180 100
 182 95.0 75.7 113.5
 184 30.6 23.9 35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	131-1A-2DUP	SDG No.:	Q3132
Lab Sample ID:	Q3130-02DUP	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
VL042970.D	1		09/22/25 22:48	VL092225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
TARGETS						
75-71-8	Dichlorodifluoromethane	0.43	2.13	J	0.54	2.47
74-87-3	Chloromethane	0.41	0.85	J	0.21	1.03
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32
109-99-9	Tetrahydrofuran	0.080	0.24	U	0.24	1.47
75-69-4	Trichlorofluoromethane	0.23	1.29	J	0.96	2.81
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49
75-65-0	tert-Butyl alcohol	0.20	0.61	J	0.49	1.52
142-82-5	Heptane	0.17	0.70	U	0.70	2.05
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98
67-64-1	Acetone	6.20	14.7		0.43	1.19
75-15-0	Carbon Disulfide	0.080	0.25	U	0.25	1.56
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80
75-09-2	Methylene Chloride	2.00	6.95		0.80	1.74
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72
78-93-3	2-Butanone	0.37	1.09	J	0.18	1.47
56-23-5	Carbon Tetrachloride	0.070	0.44		0.19	0.19
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98
67-66-3	Chloroform	0.10	0.49	U	0.49	2.44
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34
71-43-2	Benzene	0.18	0.58	J	0.26	1.60
107-06-2	1,2-Dichloroethane	0.15	0.61	J	0.36	2.02
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05
108-88-3	Toluene	0.38	1.43	J	0.60	1.88
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73

Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	131-1A-2DUP	SDG No.:	Q3132
Lab Sample ID:	Q3130-02DUP	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
VL042970.D	1		09/22/25 22:48	VL092225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17
100-42-5	Styrene	0.16	0.68	U	0.68	2.13
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11
91-20-3	Naphthalene	0.14	0.73		0.050	0.52
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46
110-54-3	Hexane	2.40	8.46		0.56	1.76
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05
SURROGATES						
460-00-4	1-Bromo-4-Fluorobenzene	10.2			70 (65) - 130 (135)	102% SPK: 10
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	147000		2.787		
540-36-3	1,4-Difluorobenzene	437000		3.959		
3114-55-4	Chlorobenzene-d5	390000		8.882		

Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	131-1A-2DUP	SDG No.:	Q3132
Lab Sample ID:	Q3130-02DUP	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
VL042970.D	1		09/22/25 22:48	VL092225

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

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\VL092225\
 Data File : VL042970.D
 Acq On : 22 Sep 2025 22:48
 Operator : SY/MD
 Sample : Q3130-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 131-1A-2DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:57:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	146991	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	437140	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	389571	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	296189	10.185	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8516	0.431	ppbv	92
4) Chloromethane	1.535	50	3652	0.408	ppbv	97
9) Propene	1.489	41	5695m	0.531	ppbv	
11) Trichlorofluoromethane	1.881	101	4422	0.232	ppbv	98
13) Ethanol	1.722	45	384814	370.048	ppbv	95
15) Acetone	1.836	43	118525	6.191	ppbv	96
17) tert-Butyl alcohol	2.043	59	4248m	0.202	ppbv	
20) Methylene Chloride	2.062	84	14366	1.980	ppbv	97
26) Hexane	2.829	57	53388	2.421	ppbv #	61
34) 2-Butanone	2.561	43	11487	0.375	ppbv #	86
35) Carbon Tetrachloride	3.758	117	2114m	0.074	ppbv	
36) Benzene	3.661	78	7565	0.184	ppbv #	90
37) 1,2-Dichloroethane	3.218	62	3337	0.155	ppbv #	93
44) 2,2,4-Trimethylpentane	4.645	57	8434m	0.119	ppbv	
53) Toluene	6.937	91	18244	0.375	ppbv	100
59) m/p-Xylene	9.532	91	8506m	0.169	ppbv	
79) Naphthalene	13.513	128	7088	0.142	ppbv	97

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

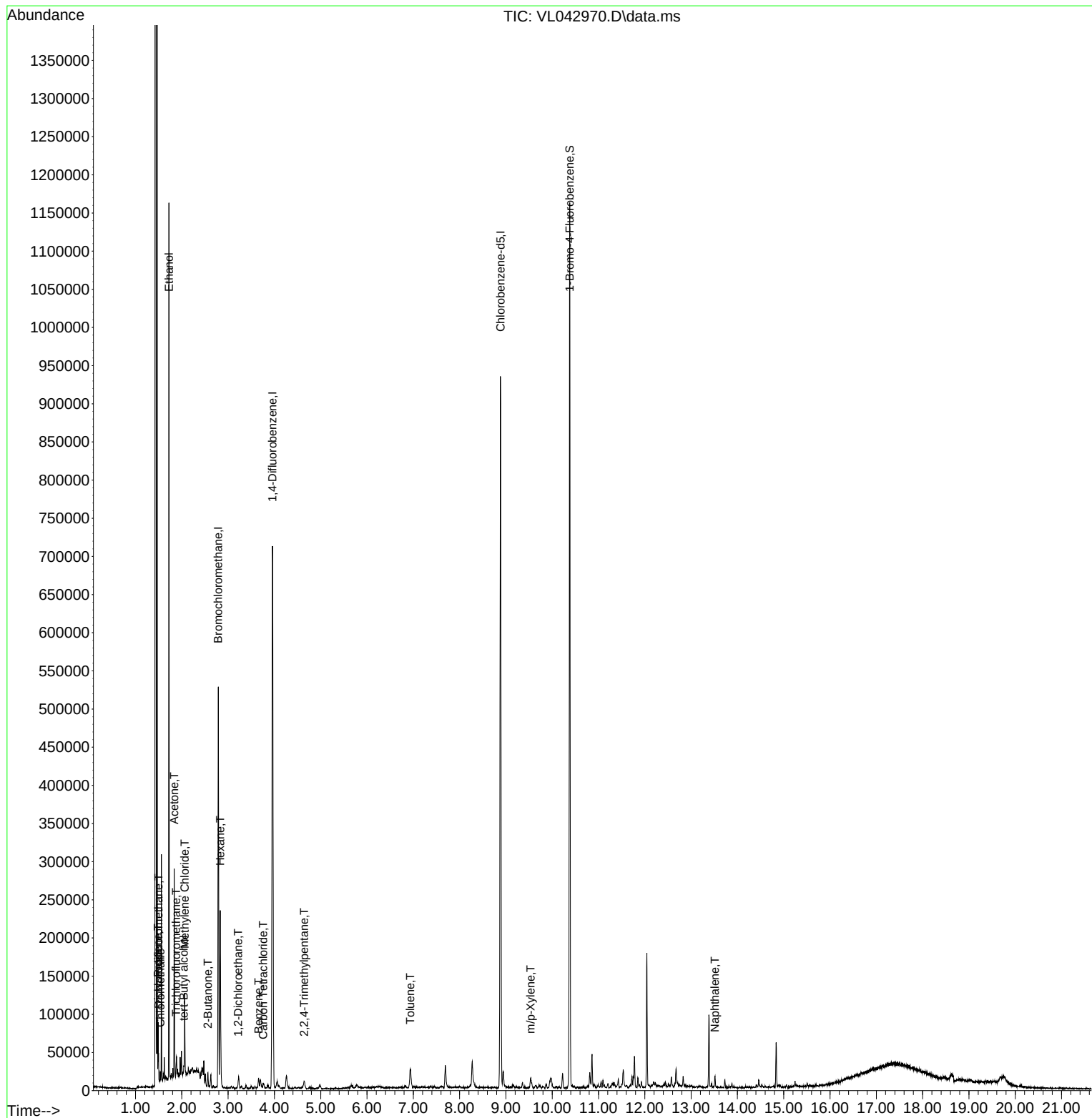
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042970.D
Acq On : 22 Sep 2025 22:48
Operator : SY/MD
Sample : Q3130-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

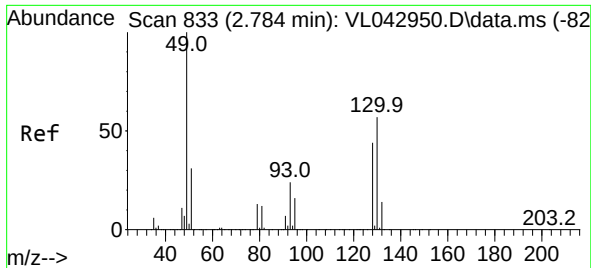
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP

Quant Time: Sep 23 02:57:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

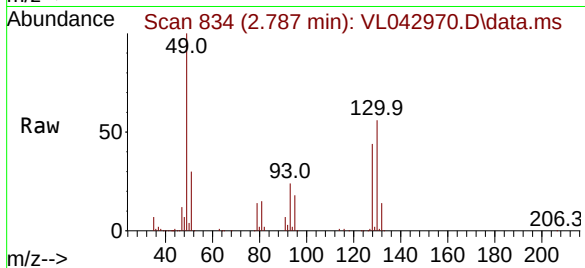
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

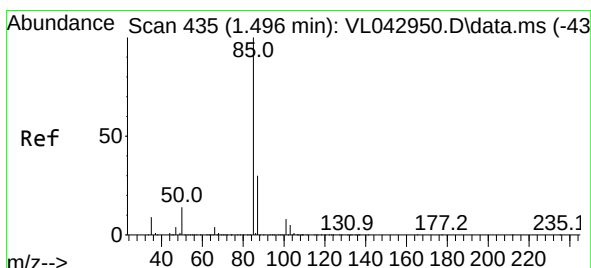
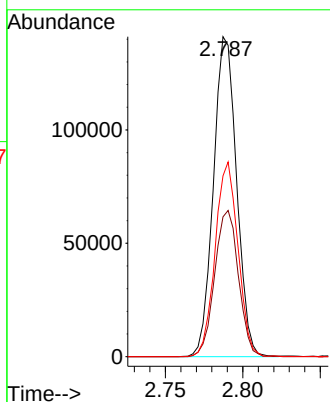
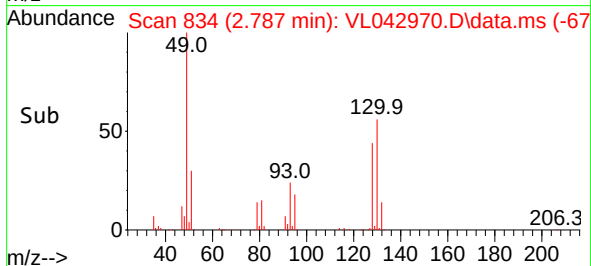
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP



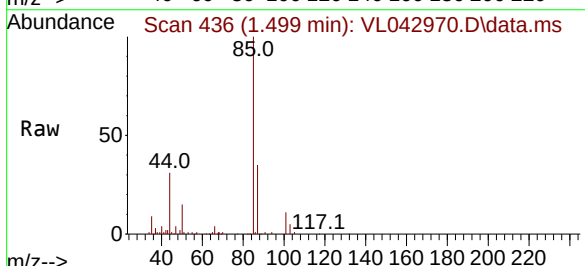
Tgt Ion: 49 Resp: 14699
Ion Ratio Lower Upper
49 100
128 46.9 22.9 68.8
130 59.9 29.1 87.3

Manual Integrations
APPROVED

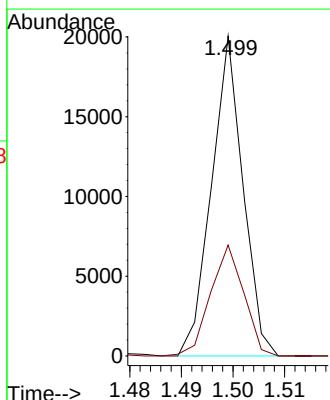
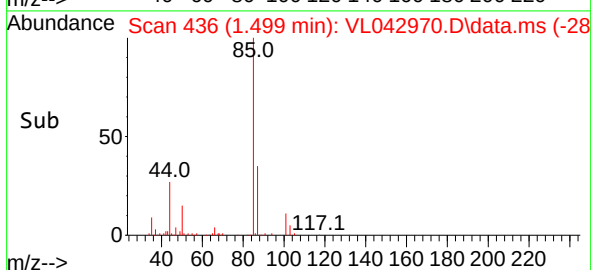
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

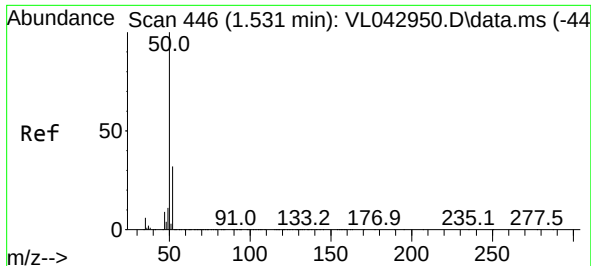


#2
Dichlorodifluoromethane
Concen: 0.431 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48



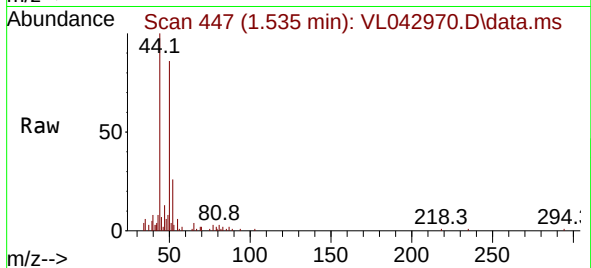
Tgt Ion: 85 Resp: 8516
Ion Ratio Lower Upper
85 100
87 34.7 24.3 36.5





#4
Chloromethane
Concen: 0.408 ppbv
RT: 1.535 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

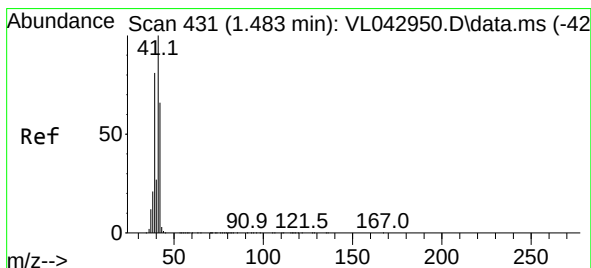
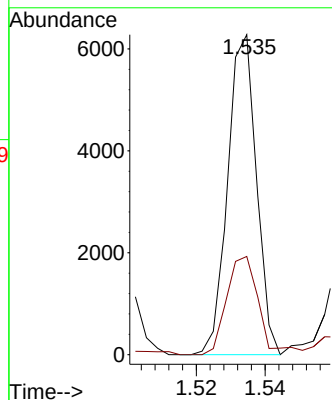
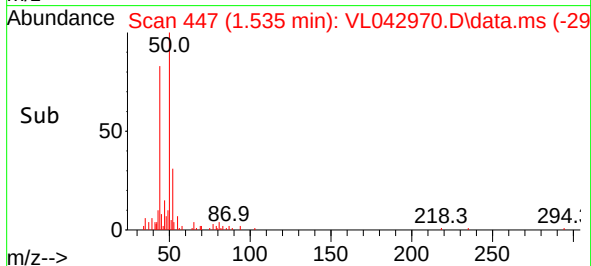
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP



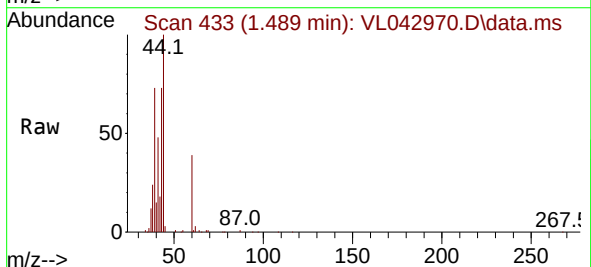
Tgt Ion: 50 Resp: 3652
Ion Ratio Lower Upper
50 100
52 34.3 25.9 38.9

Manual Integrations
APPROVED

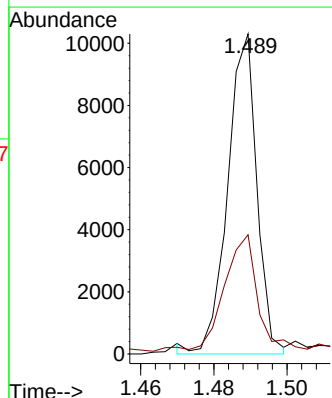
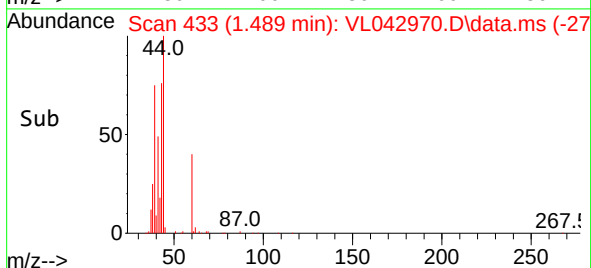
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

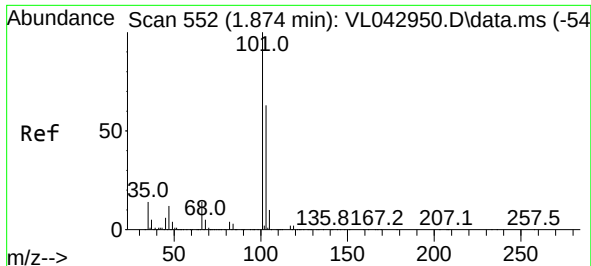


#9
Propene
Concen: 0.531 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48



Tgt Ion: 41 Resp: 5695
Ion Ratio Lower Upper
41 100
42 358.3 57.4 86.2#





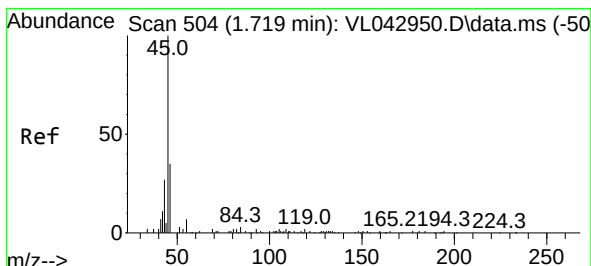
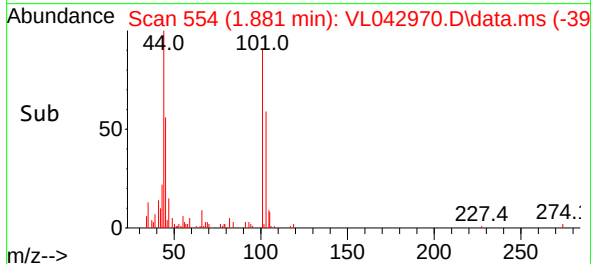
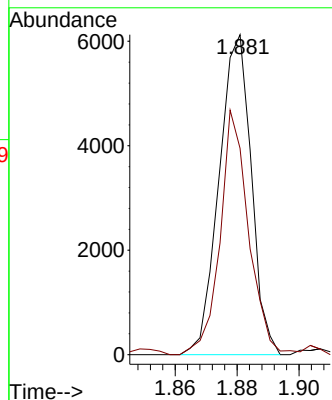
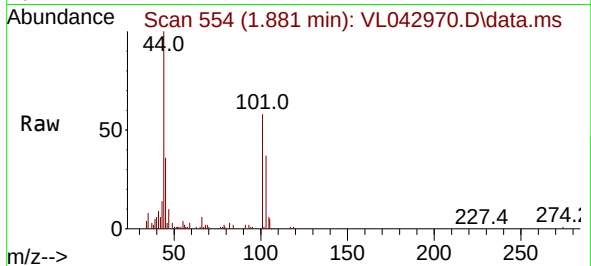
#11
 Trichlorofluoromethane
 Concen: 0.232 ppbv
 RT: 1.881 min Scan# 505
 Delta R.T. 0.007 min
 Lab File: VL042970.D
 Acq: 22 Sep 2025 22:48

Instrument :
 MSVOA_L
 ClientSampleId :
 131-1A-2DUP

Tgt Ion:101 Resp: 442
 Ion Ratio Lower Upper
 101 100
 103 64.5 50.1 75.1

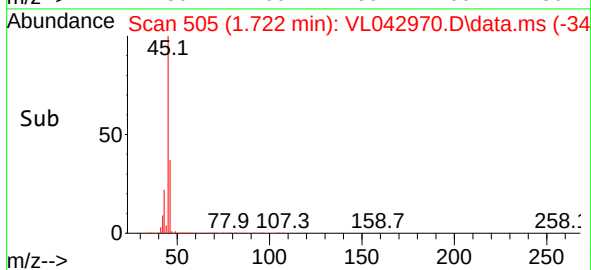
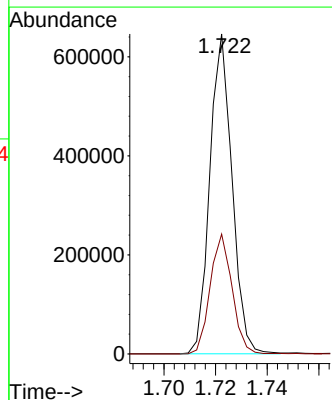
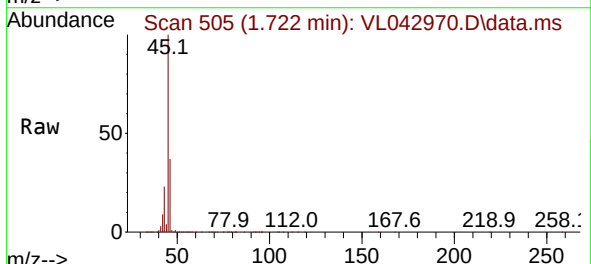
Manual Integrations
 APPROVED

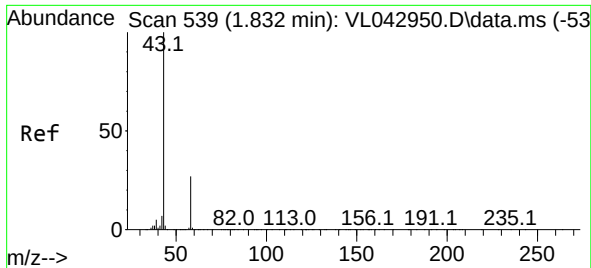
Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#13
 Ethanol
 Concen: 370.048 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL042970.D
 Acq: 22 Sep 2025 22:48

Tgt Ion: 45 Resp: 384814
 Ion Ratio Lower Upper
 45 100
 46 37.3 16.2 64.6





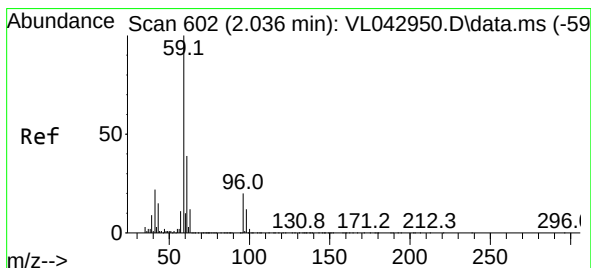
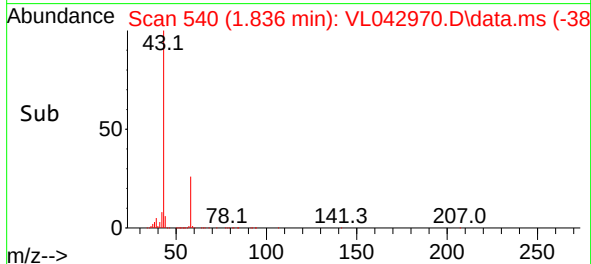
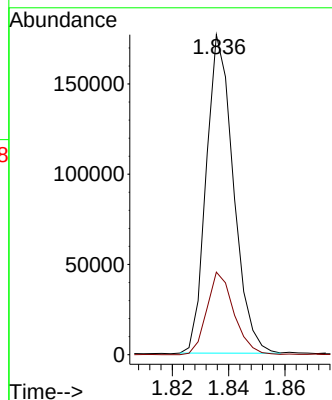
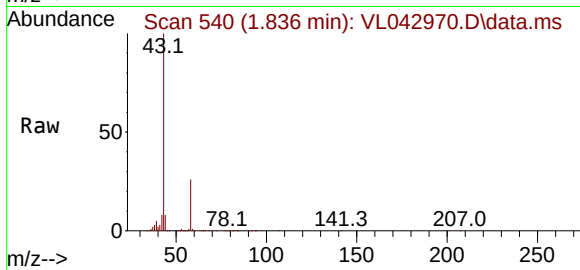
#15
Acetone
Concen: 6.191 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP

Tgt Ion: 43 Resp: 11852
Ion Ratio Lower Upper
43 100
58 25.8 22.3 33.5

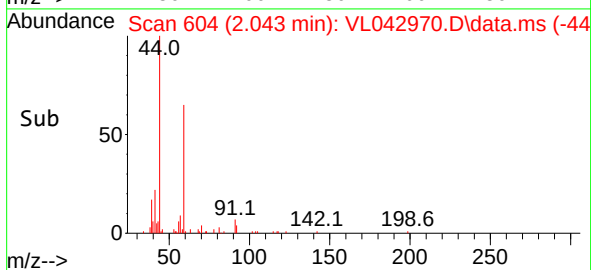
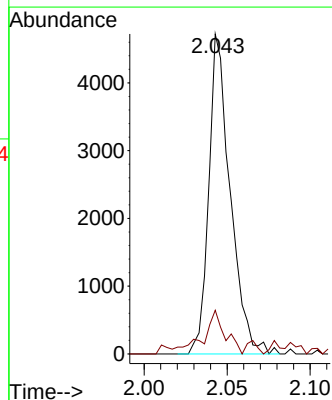
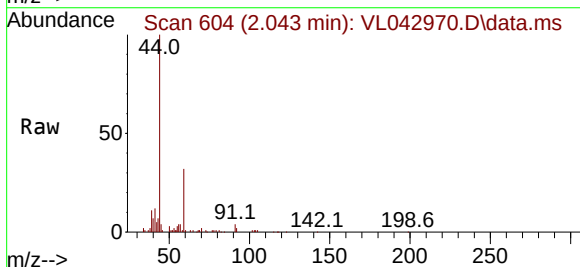
Manual Integrations
APPROVED

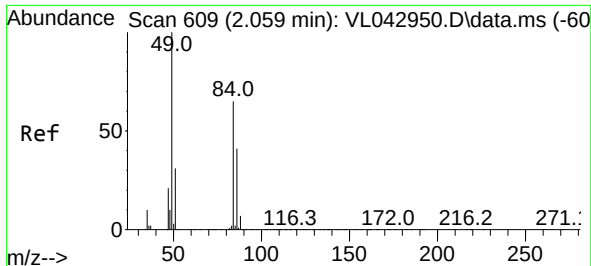
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#17
tert-Butyl alcohol
Concen: 0.202 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.007 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

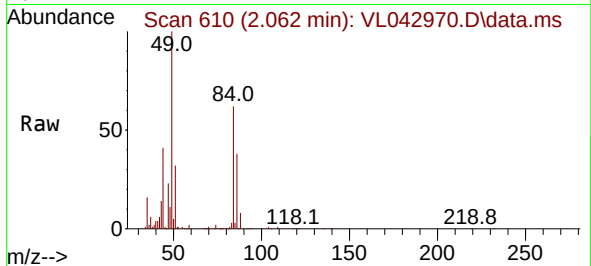
Tgt Ion: 59 Resp: 4248
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#20
Methylene Chloride
Concen: 1.980 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

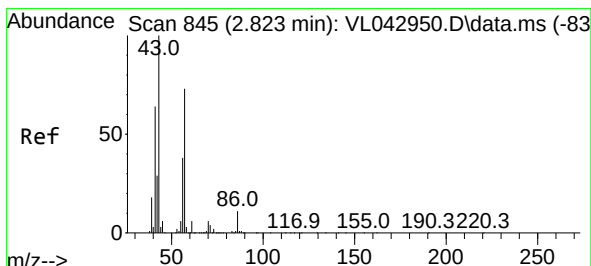
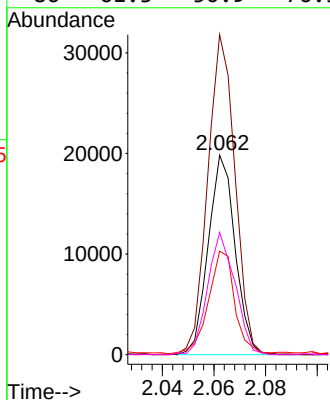
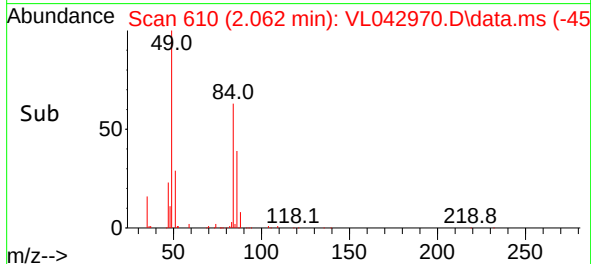
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP



Tgt Ion: 84 Resp: 14360
Ion Ratio Lower Upper
84 100
49 160.1 124.1 186.1
51 50.7 39.8 59.8
86 61.3 50.9 76.3

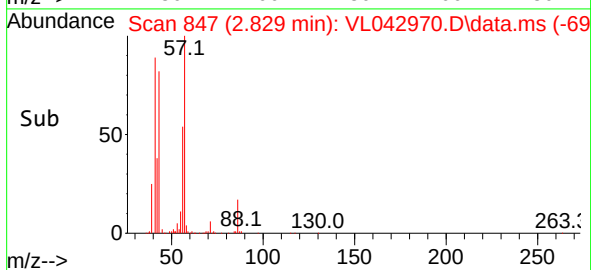
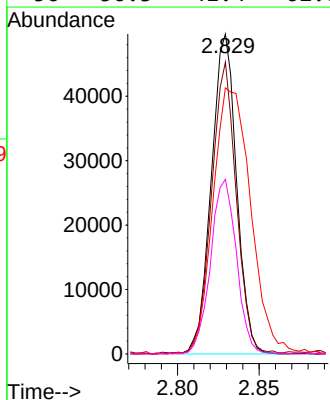
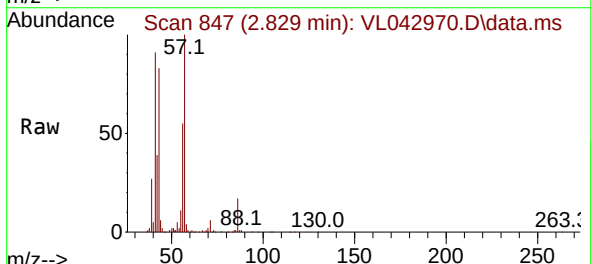
Manual Integrations
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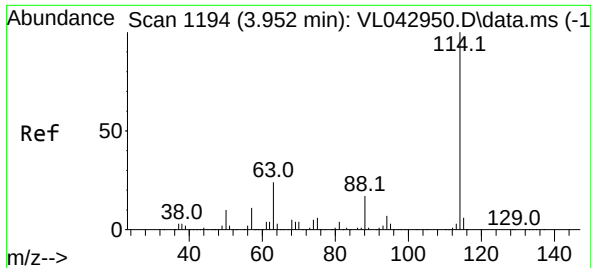
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#26
Hexane
Concen: 2.421 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.007 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Tgt Ion: 57 Resp: 53388
Ion Ratio Lower Upper
57 100
41 89.4 71.7 107.5
43 124.3 180.8 271.2#
56 56.3 41.4 62.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.007 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

131-1A-2DUP

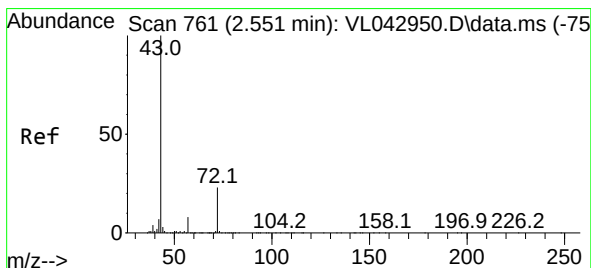
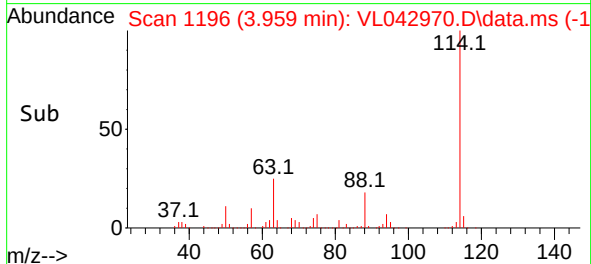
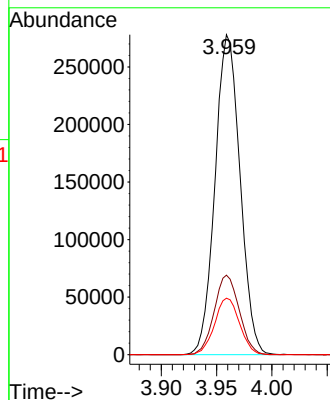
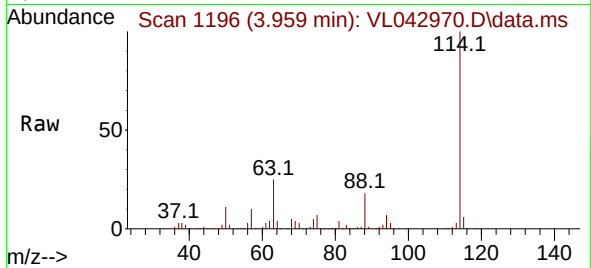
Tgt Ion:114	Resp:	437140
Ion Ratio	Lower	Upper
114	100	
63	24.9	19.4 29.2
88	17.7	14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#34

2-Butanone

Concen: 0.375 ppbv

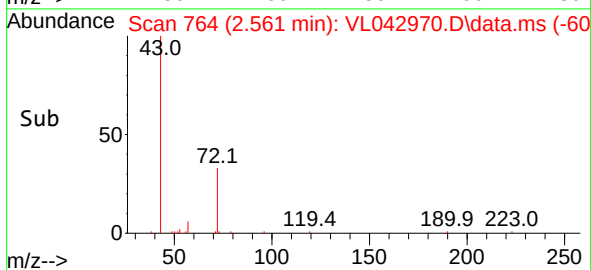
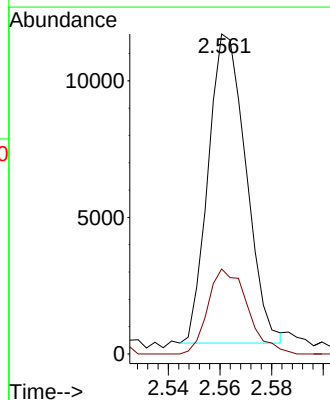
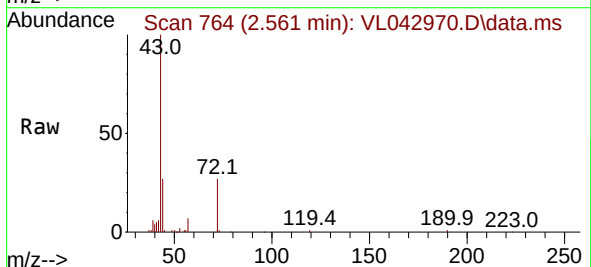
RT: 2.561 min Scan# 764

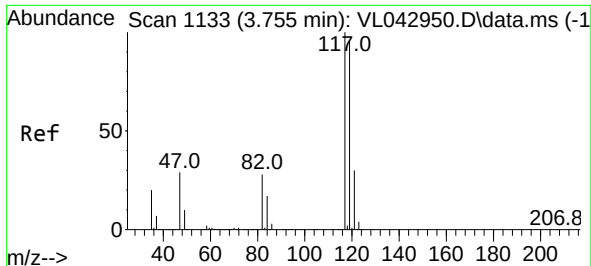
Delta R.T. 0.010 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

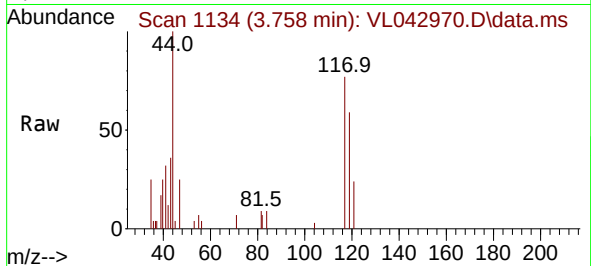
Tgt Ion: 43	Resp:	11487
Ion Ratio	Lower	Upper
43	100	
72	28.9	17.7 26.5#





#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 3.758 min Scan# 1133
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

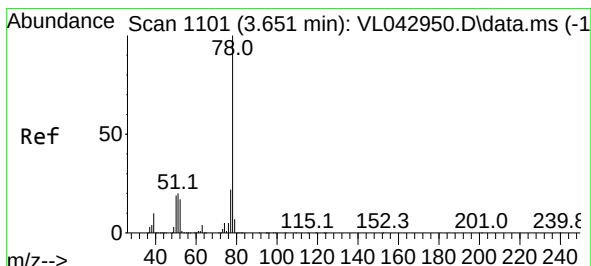
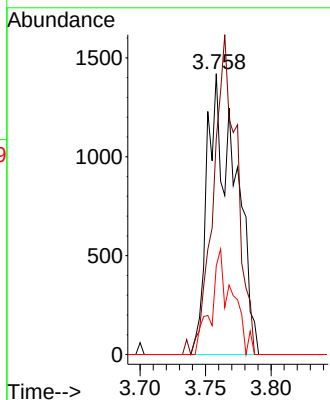
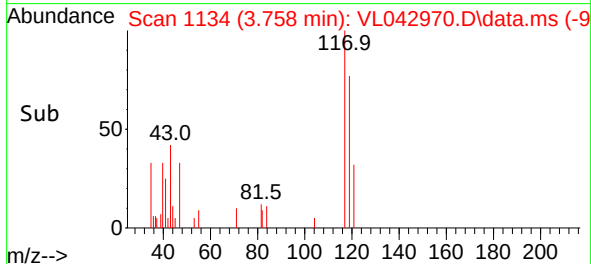
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP



Tgt Ion: 117 Resp: 2114
Ion Ratio Lower Upper
117 100
119 76.9 76.9 115.3
121 31.5 23.7 35.5

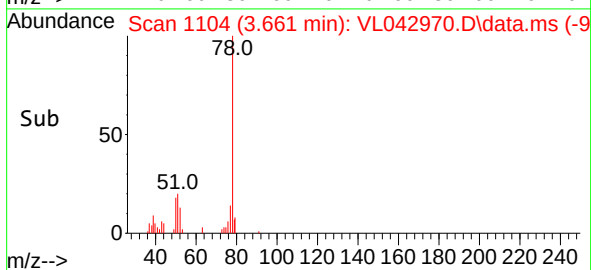
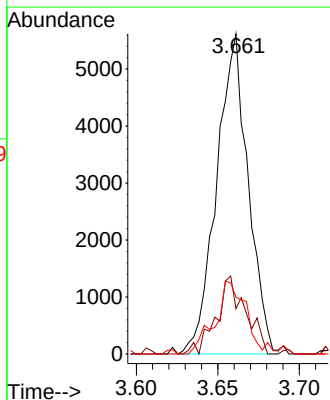
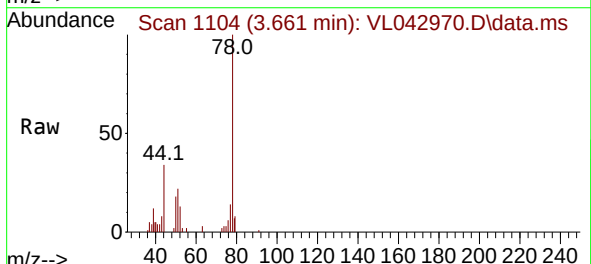
Manual Integrations
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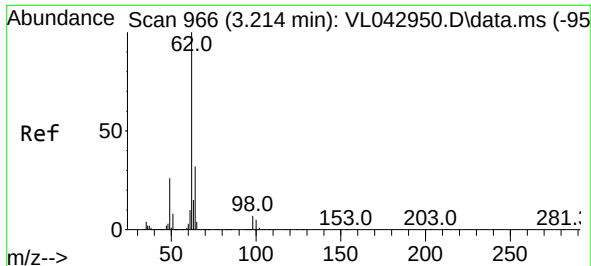
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#36
Benzene
Concen: 0.184 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.010 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Tgt Ion: 78 Resp: 7565
Ion Ratio Lower Upper
78 100
77 14.2 17.8 26.6#
50 17.8 15.0 22.4





#37

1,2-Dichloroethane

Concen: 0.155 ppbv

RT: 3.218 min Scan# 90

Delta R.T. 0.003 min

Lab File: VL042970.D

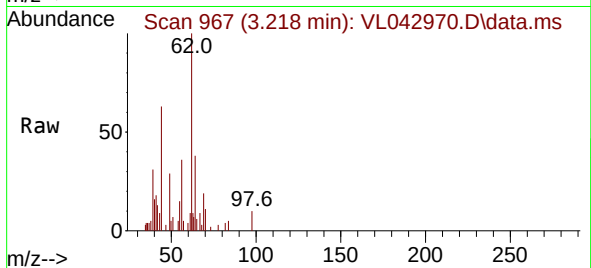
Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

131-1A-2DUP



Tgt Ion: 62 Resp: 333

Ion Ratio Lower Upper

62 100

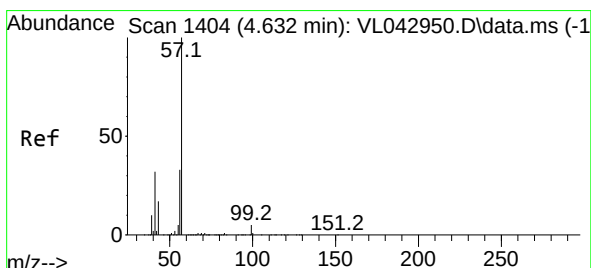
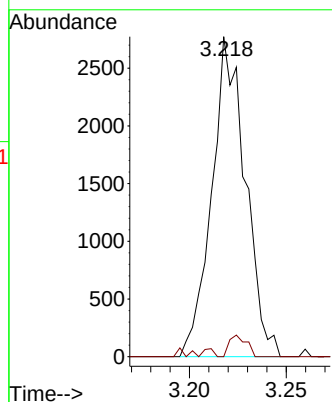
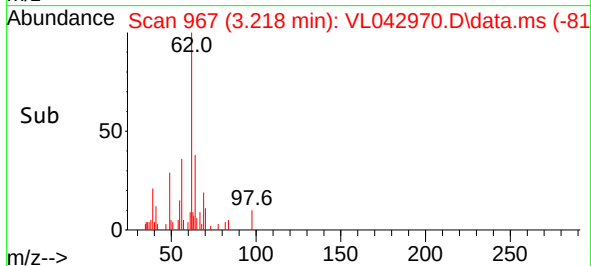
98 5.0 5.9 8.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#44

2,2,4-Trimethylpentane

Concen: 0.119 ppbv m

RT: 4.645 min Scan# 1408

Delta R.T. 0.013 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

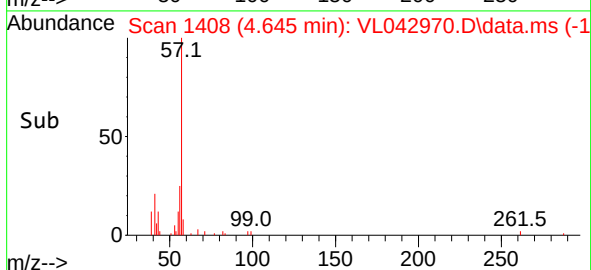
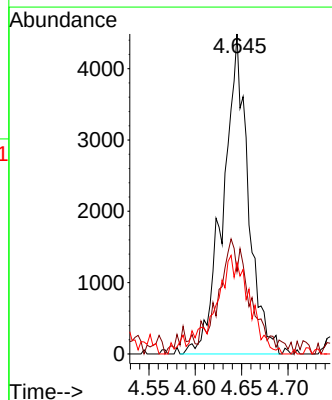
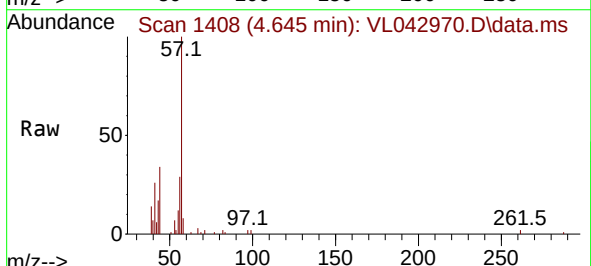
Tgt Ion: 57 Resp: 8434

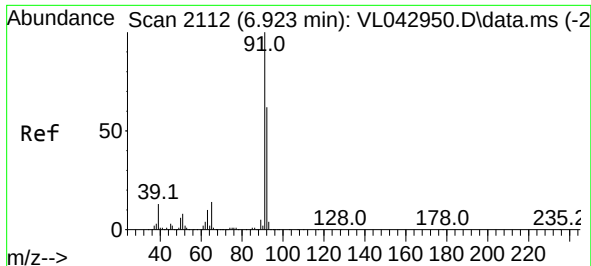
Ion Ratio Lower Upper

57 100

41 51.2 25.5 38.3#

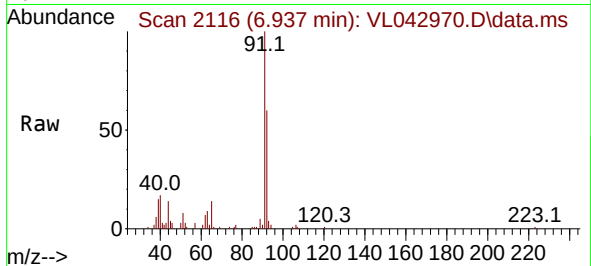
56 43.8 25.8 38.8#





#53
Toluene
Concen: 0.375 ppbv
RT: 6.937 min Scan# 2112
Delta R.T. 0.013 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

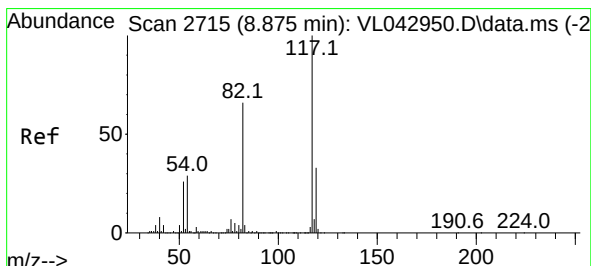
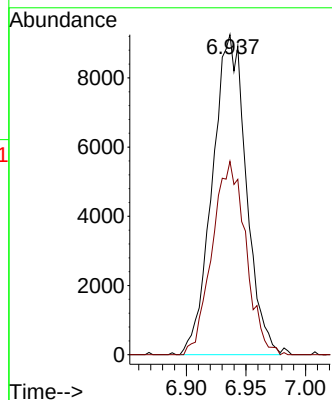
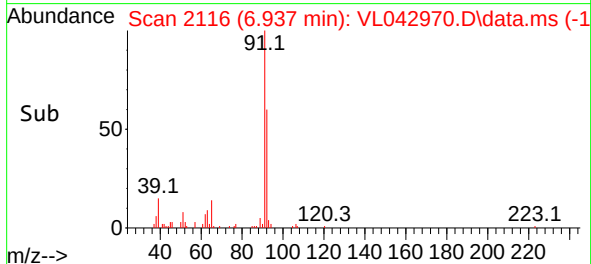
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP



Tgt Ion: 91 Resp: 18244
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.2

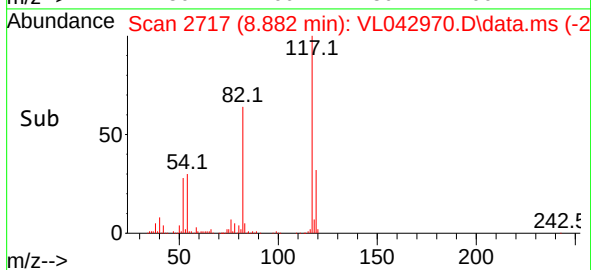
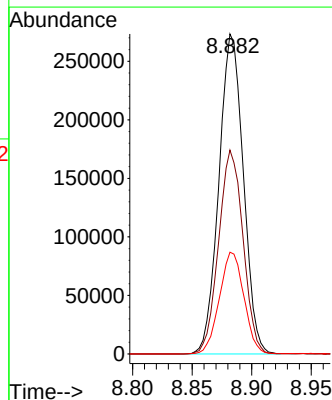
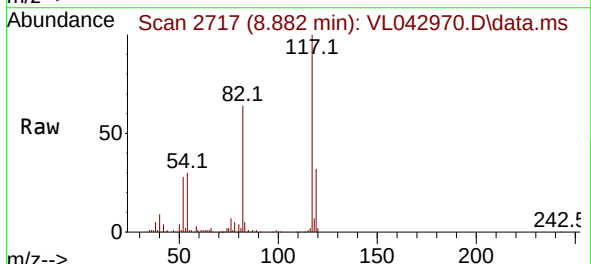
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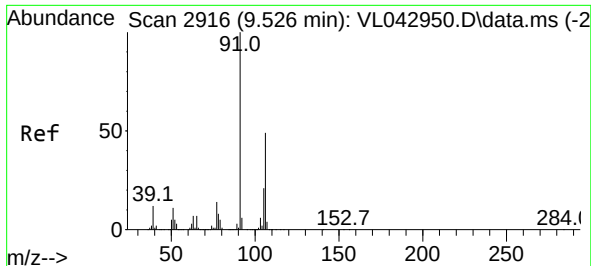
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.007 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Tgt Ion:117 Resp: 389571
Ion Ratio Lower Upper
117 100
82 63.8 52.8 79.2
119 32.1 26.5 39.7





#59

m/p-Xylene

Concen: 0.169 ppbv m

RT: 9.532 min Scan# 2916

Delta R.T. 0.007 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

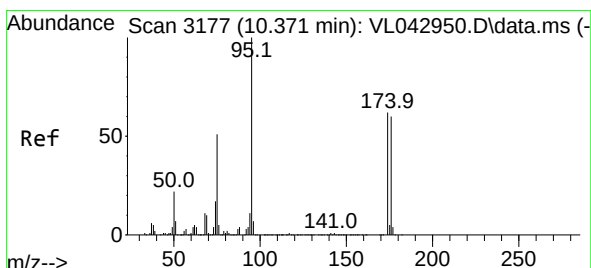
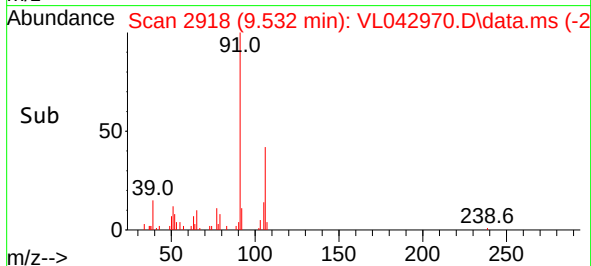
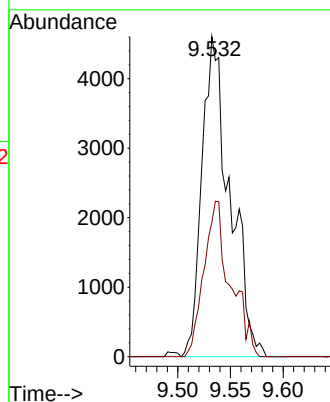
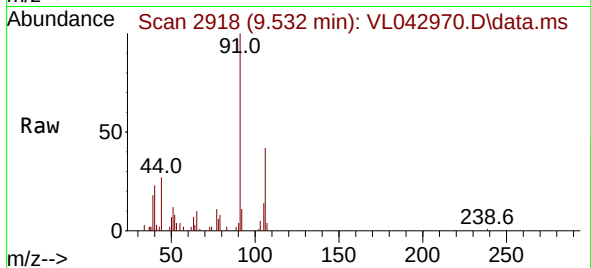
131-1A-2DUP

Tgt Ion: 91 Resp: 8500
 Ion Ratio Lower Upper
 91 100
 106 46.1 0.0 0.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.185 ppbv

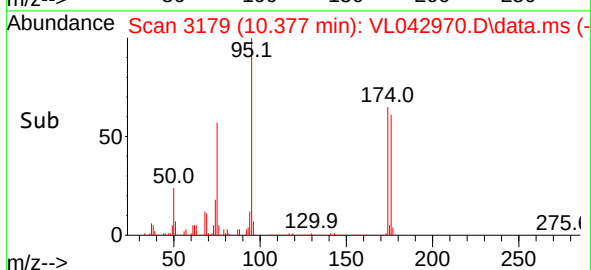
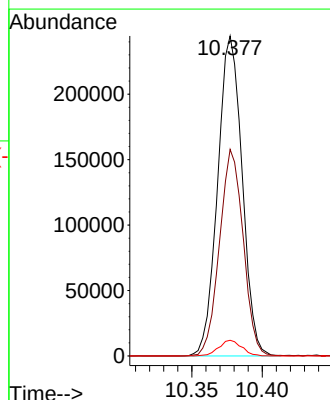
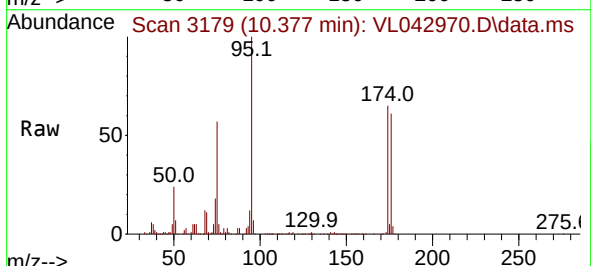
RT: 10.377 min Scan# 3179

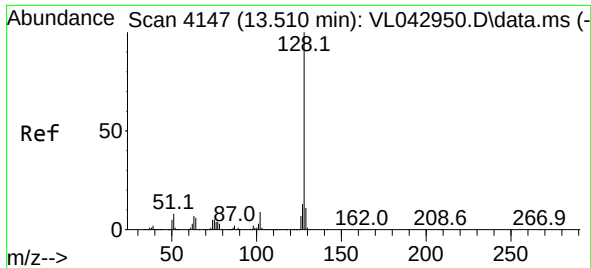
Delta R.T. 0.007 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

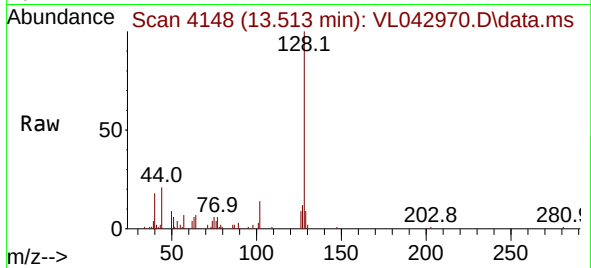
Tgt Ion: 95 Resp: 296189
 Ion Ratio Lower Upper
 95 100
 174 62.6 51.4 77.2
 175 4.6 4.0 6.0





#79
Naphthalene
Concen: 0.142 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

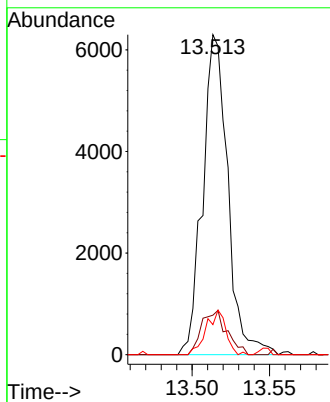
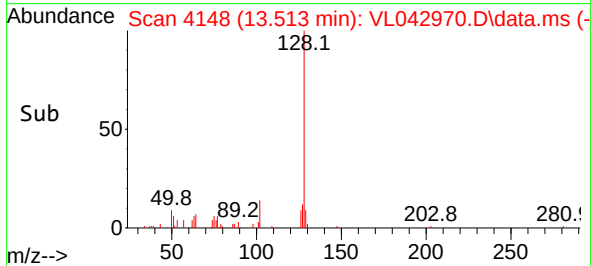
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP



Tgt Ion:128 Resp: 7088
Ion Ratio Lower Upper
128 100
127 12.4 10.6 15.8
129 9.4 9.0 13.6

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Manual Integration Report

Sequence:	VI092225	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042950.D	m/p-Xylene	sam	9/23/2025 10:01:03 AM	MMDadoda	9/24/2025 2:16:17 AM	Peak Integrated by Software
VSTDICCC002	VL042951.D	1,1,2-Trichloroethane	sam	9/23/2025 10:01:08 AM	MMDadoda	9/24/2025 2:16:19 AM	Peak Integrated by Software
VSTDICCC002	VL042951.D	1,2-Dichloropropane	sam	9/23/2025 10:01:08 AM	MMDadoda	9/24/2025 2:16:19 AM	Peak Integrated by Software
VSTDICCC002	VL042951.D	1,4-Dioxane	sam	9/23/2025 10:01:08 AM	MMDadoda	9/24/2025 2:16:19 AM	Peak Integrated by Software
VSTDICCC002	VL042951.D	4-Methyl-2-Pentanone	sam	9/23/2025 10:01:08 AM	MMDadoda	9/24/2025 2:16:19 AM	Peak Integrated by Software
VSTDICCC002	VL042951.D	m/p-Xylene	sam	9/23/2025 10:01:08 AM	MMDadoda	9/24/2025 2:16:19 AM	Peak Integrated by Software
VSTDICCC001	VL042952.D	1,2-Dichloropropane	sam	9/23/2025 10:01:13 AM	MMDadoda	9/24/2025 2:16:21 AM	Peak Integrated by Software
VSTDICCC001	VL042952.D	1,4-Dioxane	sam	9/23/2025 10:01:13 AM	MMDadoda	9/24/2025 2:16:21 AM	Peak Integrated by Software
VSTDICCC001	VL042952.D	Bromodichloromethane	sam	9/23/2025 10:01:13 AM	MMDadoda	9/24/2025 2:16:21 AM	Peak Integrated by Software
VSTDICCC001	VL042952.D	cis-1,3-Dichloropropene	sam	9/23/2025 10:01:13 AM	MMDadoda	9/24/2025 2:16:21 AM	Peak Integrated by Software
VSTDICCC001	VL042952.D	Heptane	sam	9/23/2025 10:01:13 AM	MMDadoda	9/24/2025 2:16:21 AM	Peak Integrated by Software
VSTDICCC001	VL042952.D	m/p-Xylene	sam	9/23/2025 10:01:13 AM	MMDadoda	9/24/2025 2:16:21 AM	Peak Integrated by Software
VSTDICCC001	VL042952.D	t-1,3-Dichloropropene	sam	9/23/2025 10:01:13 AM	MMDadoda	9/24/2025 2:16:21 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VI092225	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042953.D	1,1,2-Trichloroethane	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	1,4-Dioxane	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	2,2,4-Trimethylpentane	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	Benzyl Chloride	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	cis-1,3-Dichloropropene	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	Ethanol	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	Heptane	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	m/p-Xylene	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	Methyl Methacrylate	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	t-1,3-Dichloropropene	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	Tetrachloroethene	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	trans-1,2-Dichloroethene	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.1	VL042954.D	1,2-Dibromoethane	sam	9/23/2025 10:02:56 AM	MMDadoda	9/24/2025 2:16:25 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VI092225	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042954.D	Carbon Tetrachloride	sam	9/23/2025 10:02:56 AM	MMDadoda	9/24/2025 2:16:25 AM	Peak Integrated by Software
VSTDICC0.1	VL042954.D	Naphthalene	sam	9/23/2025 10:02:56 AM	MMDadoda	9/24/2025 2:16:25 AM	Peak Integrated by Software
VSTDICC0.1	VL042954.D	Tetrachloroethene	sam	9/23/2025 10:02:56 AM	MMDadoda	9/24/2025 2:16:25 AM	Peak Integrated by Software
VSTDICC0.1	VL042954.D	Trichloroethene	sam	9/23/2025 10:02:56 AM	MMDadoda	9/24/2025 2:16:25 AM	Peak Integrated by Software
VSTDICC0.03	VL042955.D	1,1,1-Trichloroethane	sam	9/23/2025 10:01:57 AM	MMDadoda	9/24/2025 2:16:26 AM	Peak Integrated by Software
VSTDICC0.03	VL042955.D	1,1,2,2-Tetrachloroethane	sam	9/23/2025 10:01:57 AM	MMDadoda	9/24/2025 2:16:26 AM	Peak Integrated by Software
VSTDICC0.03	VL042955.D	Carbon Tetrachloride	sam	9/23/2025 10:01:57 AM	MMDadoda	9/24/2025 2:16:26 AM	Peak Integrated by Software
VSTDICC0.03	VL042955.D	Tetrachloroethene	sam	9/23/2025 10:01:57 AM	MMDadoda	9/24/2025 2:16:26 AM	Peak Integrated by Software
VSTDICC0.03	VL042955.D	Trichloroethene	sam	9/23/2025 10:01:57 AM	MMDadoda	9/24/2025 2:16:26 AM	Peak Integrated by Software
VSTDICC015	VL042956.D	m/p-Xylene	sam	9/23/2025 10:01:19 AM	MMDadoda	9/24/2025 2:16:27 AM	Peak Integrated by Software
VSTDICV010	VL042957.D	m/p-Xylene	sam	9/23/2025 10:01:52 AM	MMDadoda	9/24/2025 2:16:29 AM	Peak Integrated by Software
VL0922ABS01	VL042959.D	m/p-Xylene	sam	9/23/2025 10:01:29 AM	MMDadoda	9/24/2025 2:16:44 AM	Peak Integrated by Software
Q3130-02DUP	VL042970.D	2,2,4-Trimethylpentane	sam	9/23/2025 10:03:16 AM	MMDadoda	9/24/2025 2:17:13 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VI092225

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3130-02DUP	VL042970.D	Carbon Tetrachloride	sam	9/23/2025 10:03:16 AM	MMDadoda	9/24/2025 2:17:13 AM	Peak Integrated by Software
Q3130-02DUP	VL042970.D	m/p-Xylene	sam	9/23/2025 10:03:16 AM	MMDadoda	9/24/2025 2:17:13 AM	Peak Integrated by Software
Q3130-02DUP	VL042970.D	Propene	sam	9/23/2025 10:03:16 AM	MMDadoda	9/24/2025 2:17:13 AM	Peak Integrated by Software
Q3130-02DUP	VL042970.D	Tetrachloroethene	sam	9/23/2025 10:03:16 AM	MMDadoda	9/24/2025 2:17:13 AM	Peak Integrated by Software
Q3132-01	VL042978.D	2,2,4-Trimethylpentane	MMDadoda	9/24/2025 2:17:55 AM	SAM	9/24/2025 2:25:43 AM	Peak Integrated by Software
Q3132-01	VL042978.D	Acetone	MMDadoda	9/24/2025 2:17:55 AM	SAM	9/24/2025 2:25:43 AM	Peak Integrated by Software
Q3132-01	VL042978.D	Carbon Tetrachloride	MMDadoda	9/24/2025 2:17:55 AM	SAM	9/24/2025 2:25:43 AM	Peak Integrated by Software
Q3132-01	VL042978.D	Chlorodifluoromethane	MMDadoda	9/24/2025 2:17:55 AM	SAM	9/24/2025 2:25:43 AM	Peak Integrated by Software
Q3132-01	VL042978.D	Cyclohexane	MMDadoda	9/24/2025 2:17:55 AM	SAM	9/24/2025 2:25:43 AM	Peak Integrated by Software
Q3132-01	VL042978.D	Propene	MMDadoda	9/24/2025 2:17:55 AM	SAM	9/24/2025 2:25:43 AM	Peak Integrated by Software
Q3132-01	VL042978.D	Styrene	MMDadoda	9/24/2025 2:17:55 AM	SAM	9/24/2025 2:25:43 AM	Peak Integrated by Software
Q3132-01	VL042978.D	tert-Butyl alcohol	MMDadoda	9/24/2025 2:17:55 AM	SAM	9/24/2025 2:25:43 AM	Peak Integrated by Software
Q3132-01	VL042978.D	Tetrachloroethene	MMDadoda	9/24/2025 2:17:55 AM	SAM	9/24/2025 2:25:43 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VI092225

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3132-01	VL042978.D	Toluene	MMDadoda	9/24/2025 2:17:55 AM	SAM	9/24/2025 2:25:43 AM	Peak Integrated by Software
Q3132-01DL	VL042979.D	Acetone	MMDadoda	9/24/2025 2:17:57 AM	SAM	9/24/2025 2:25:44 AM	Peak Integrated by Software
Q3132-01DL	VL042979.D	m/p-Xylene	MMDadoda	9/24/2025 2:17:57 AM	SAM	9/24/2025 2:25:44 AM	Peak Integrated by Software
Q3132-02	VL042980.D	2,2,4-Trimethylpentane	MMDadoda	9/24/2025 2:17:58 AM	SAM	9/24/2025 2:25:46 AM	Peak Integrated by Software
Q3132-02	VL042980.D	4-Methyl-2-Pentanone	MMDadoda	9/24/2025 2:17:58 AM	SAM	9/24/2025 2:25:46 AM	Peak Integrated by Software
Q3132-02	VL042980.D	Acetone	MMDadoda	9/24/2025 2:17:58 AM	SAM	9/24/2025 2:25:46 AM	Peak Integrated by Software
Q3132-02	VL042980.D	Carbon Tetrachloride	MMDadoda	9/24/2025 2:17:58 AM	SAM	9/24/2025 2:25:46 AM	Peak Integrated by Software
Q3132-02	VL042980.D	Chlorodifluoromethane	MMDadoda	9/24/2025 2:17:58 AM	SAM	9/24/2025 2:25:46 AM	Peak Integrated by Software
Q3132-02	VL042980.D	Cyclohexane	MMDadoda	9/24/2025 2:17:58 AM	SAM	9/24/2025 2:25:46 AM	Peak Integrated by Software
Q3132-02	VL042980.D	Heptane	MMDadoda	9/24/2025 2:17:58 AM	SAM	9/24/2025 2:25:46 AM	Peak Integrated by Software
Q3132-02	VL042980.D	Propene	MMDadoda	9/24/2025 2:17:58 AM	SAM	9/24/2025 2:25:46 AM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL092225

Review By	Mahesh Dadoda	Review On	9/24/2025 2:18:14 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/24/2025 2:26:00 AM		
SubDirectory	VL092225	HP Acquire Method	TO15AIR	HP Processing Method	VL092225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2676			
Initial Calibration Stds		AP2673,AP2674,AP2675			
CCC		AP2673			
Internal Standard/PEM		AP2676			
ICV/I.BLK		AP2671			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042949.D	22 Sep 2025 08:55	SY/MD	Ok
2	VSTDICCC010	VL042950.D	22 Sep 2025 09:39	SY/MD	Ok,M
3	VSTDICCC002	VL042951.D	22 Sep 2025 10:14	SY/MD	Ok,M
4	VSTDICCC001	VL042952.D	22 Sep 2025 10:48	SY/MD	Ok,M
5	VSTDICCC0.5	VL042953.D	22 Sep 2025 11:22	SY/MD	Ok,M
6	VSTDICCC0.1	VL042954.D	22 Sep 2025 11:56	SY/MD	Ok,M
7	VSTDICCC0.03	VL042955.D	22 Sep 2025 12:30	SY/MD	Ok,M
8	VSTDICCC015	VL042956.D	22 Sep 2025 13:05	SY/MD	Ok,M
9	VSTDICV010	VL042957.D	22 Sep 2025 14:15	SY/MD	Ok,M
10	VL0922ABL01	VL042958.D	22 Sep 2025 15:06	SY/MD	Ok
11	VL0922ABS01	VL042959.D	22 Sep 2025 15:52	SY/MD	Ok,M
12	Q3111-01	VL042960.D	22 Sep 2025 16:53	SY/MD	Dilution
13	Q3111-01DL	VL042961.D	22 Sep 2025 17:28	SY/MD	Ok,M
14	Q3112-01	VL042962.D	22 Sep 2025 18:04	SY/MD	Ok,M
15	Q3112-01DL	VL042963.D	22 Sep 2025 18:39	SY/MD	Not Ok
16	Q3112-02	VL042964.D	22 Sep 2025 19:14	SY/MD	Dilution
17	Q3112-02DL	VL042965.D	22 Sep 2025 19:49	SY/MD	Ok
18	Q3112-03	VL042966.D	22 Sep 2025 20:24	SY/MD	Ok,M
19	Q3112-03DL	VL042967.D	22 Sep 2025 20:59	SY/MD	Not Ok
20	VIBLK	VL042968.D	22 Sep 2025 21:35	SY/MD	Ok
21	Q3130-02	VL042969.D	22 Sep 2025 22:11	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL092225

Review By	Maresh Dadoda	Review On	9/24/2025 2:18:14 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/24/2025 2:26:00 AM		
SubDirectory	VL092225	HP Acquire Method	TO15AIR	HP Processing Method	VL092225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2676				
Initial Calibration Stds	AP2673,AP2674,AP2675				
CCC	AP2673				
Internal Standard/PEM	AP2676				
ICV/I.BLK	AP2671				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q3130-02DUP	VL042970.D	22 Sep 2025 22:48	SY/MD	Ok,M
23	Q3130-02DL	VL042971.D	22 Sep 2025 23:23	SY/MD	Not Ok
24	Q3130-01	VL042972.D	23 Sep 2025 00:00	SY/MD	Ok,M
25	Q3130-01DL	VL042973.D	23 Sep 2025 00:35	SY/MD	Not Ok
26	Q3131-01	VL042974.D	23 Sep 2025 01:11	SY/MD	Dilution
27	Q3131-01DL	VL042975.D	23 Sep 2025 01:46	SY/MD	Ok,M
28	Q3131-02	VL042976.D	23 Sep 2025 02:22	SY/MD	Dilution
29	Q3131-02DL	VL042977.D	23 Sep 2025 02:57	SY/MD	Ok,M
30	Q3132-01	VL042978.D	23 Sep 2025 03:33	SY/MD	Dilution
31	Q3132-01DL	VL042979.D	23 Sep 2025 04:08	SY/MD	Ok,M
32	Q3132-02	VL042980.D	23 Sep 2025 04:44	SY/MD	Ok,M
33	Q3132-02DL	VL042981.D	23 Sep 2025 05:19	SY/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL092225

Review By	Mahesh Dadoda	Review On	9/24/2025 2:18:14 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/24/2025 2:26:00 AM		
SubDirectory	VL092225	HP Acquire Method	TO15AIR	HP Processing Method	VL092225AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2676
Initial Calibration Stds	AP2673,AP2674,AP2675
CCC	AP2673
Internal Standard/PEM	AP2676
ICV/I.BLK	AP2671
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042949.D	22 Sep 2025 08:55		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042950.D	22 Sep 2025 09:39		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042951.D	22 Sep 2025 10:14	LR-20	SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042952.D	22 Sep 2025 10:48		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042953.D	22 Sep 2025 11:22		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042954.D	22 Sep 2025 11:56		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042955.D	22 Sep 2025 12:30		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042956.D	22 Sep 2025 13:05		SY/MD	Ok,M
9	VSTDICV010	ICVVL092225	VL042957.D	22 Sep 2025 14:15	ICV failed for com.#13	SY/MD	Ok,M
10	VL0922ABL01	VL0922ABL01	VL042958.D	22 Sep 2025 15:06		SY/MD	Ok
11	VL0922ABS01	VL0922ABS01	VL042959.D	22 Sep 2025 15:52		SY/MD	Ok,M
12	Q3111-01	SV1	VL042960.D	22 Sep 2025 16:53	Need 40X	SY/MD	Dilution
13	Q3111-01DL	SV1DL	VL042961.D	22 Sep 2025 17:28		SY/MD	Ok,M
14	Q3112-01	SV1	VL042962.D	22 Sep 2025 18:04		SY/MD	Ok,M
15	Q3112-01DL	SV1DL	VL042963.D	22 Sep 2025 18:39	Not Required	SY/MD	Not Ok
16	Q3112-02	SV2	VL042964.D	22 Sep 2025 19:14	Need 40X	SY/MD	Dilution
17	Q3112-02DL	SV2DL	VL042965.D	22 Sep 2025 19:49		SY/MD	Ok
18	Q3112-03	SV3	VL042966.D	22 Sep 2025 20:24		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL092225

Review By	Mahesh Dadoda	Review On	9/24/2025 2:18:14 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/24/2025 2:26:00 AM		
SubDirectory	VL092225	HP Acquire Method	TO15AIR	HP Processing Method	VL092225AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2676				
Initial Calibration Stds	AP2673,AP2674,AP2675				
CCC	AP2673				
Internal Standard/PEM	AP2676				
ICV/I.BLK	AP2671				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q3112-03DL	SV3DL	VL042967.D	22 Sep 2025 20:59	Not Required	SY/MD	Not Ok
20	VIBLK	VIBLK	VL042968.D	22 Sep 2025 21:35		SY/MD	Ok
21	Q3130-02	131-1A-2	VL042969.D	22 Sep 2025 22:11		SY/MD	Ok,M
22	Q3130-02DUP	131-1A-2DUP	VL042970.D	22 Sep 2025 22:48		SY/MD	Ok,M
23	Q3130-02DL	131-1A-2DL	VL042971.D	22 Sep 2025 23:23	Not Required	SY/MD	Not Ok
24	Q3130-01	131-1A-1	VL042972.D	23 Sep 2025 00:00		SY/MD	Ok,M
25	Q3130-01DL	131-1A-1DL	VL042973.D	23 Sep 2025 00:35	Not Required	SY/MD	Not Ok
26	Q3131-01	141-1A-1	VL042974.D	23 Sep 2025 01:11	Need 10X	SY/MD	Dilution
27	Q3131-01DL	141-1A-1DL	VL042975.D	23 Sep 2025 01:46		SY/MD	Ok,M
28	Q3131-02	141-1A-2	VL042976.D	23 Sep 2025 02:22	Need 10X	SY/MD	Dilution
29	Q3131-02DL	141-1A-2DL	VL042977.D	23 Sep 2025 02:57		SY/MD	Ok,M
30	Q3132-01	151-1A-1	VL042978.D	23 Sep 2025 03:33	Need 10X	SY/MD	Dilution
31	Q3132-01DL	151-1A-1DL	VL042979.D	23 Sep 2025 04:08		SY/MD	Ok,M
32	Q3132-02	151-1A-2	VL042980.D	23 Sep 2025 04:44		SY/MD	Ok,M
33	Q3132-02DL	151-1A-2DL	VL042981.D	23 Sep 2025 05:19	Not Required	SY/MD	Not Ok

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q3132

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: VL092225,

Standard ID :

AP2671,AP2673,AP2674,AP2675,AP2676,

Chemical ID :

A1117,A1138,A1139,A1140,

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	AP2671	09/17/2025	10/17/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								09/25/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1139 = 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	AP2673	09/22/2025	10/22/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								09/25/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1140 = Final Quantity: 30.000 psi

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2397	TO-15 -2 PPBV CAL.MIX	AP2674	09/22/2025	10/22/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								09/25/2025

FROM 26.00000psi of A1117 + 4.00000psi of AP2673 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2668	0.5 PPBV CAL.MIX	AP2675	09/22/2025	10/22/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								09/25/2025

FROM 29.00000psi of A1117 + 1.00000psi of AP2673 = Final Quantity: 30.000 psi



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
47	Internal Standard/Surrogate Mix-80 ppbv	AP2676	09/22/2025	10/22/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/25/2025
<u>FROM</u> 2.40000psi of A1138 + 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	12/16/2025	07/15/2025 / SAM	07/14/2025 / SAM	A1138

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)	040424-003AR	04/16/2026	07/16/2025 / SAM	07/14/2025 / SAM	A1139

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)	040424-003BR	04/16/2026	07/16/2025 / SAM	07/14/2025 / SAM	A1140

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

rec: 07/14/25
A 1138

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: 012/16/2025

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:

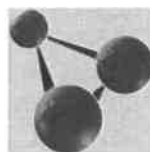
Signature:

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.

Rec 07/14/25

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

A 1139

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountainside, NJ 07092

Cylinder Number: BC315629
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 04/16/2025
Expiration Date: 04/16/2026
Lot Number: 040424-003AR

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003R	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	519 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	537 ppb +/- 50 ppb	
Acrolein	500 ppb	542 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	532 ppb +/- 50 ppb	
Allyl chloride	500 ppb	509 ppb +/- 50 ppb	
Benzene	500 ppb	486 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	492 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	512 ppb +/- 50 ppb	
Bromoform	500 ppb	497 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	506 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	529 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	527 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	527 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	527 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	487 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	509 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	494 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	490 ppb +/- 50 ppb	
Chloroform	500 ppb	495 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	529 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	494 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	499 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	496 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	491 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	491 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	492 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	518 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	468 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	507 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	486 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	488 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	552 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	499 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	509 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	488 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	493 ppb +/- 50 ppb	
n-Hexane	500 ppb	485 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	511 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	524 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	532 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	529 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	483 ppb +/- 50 ppb	
Methylene chloride	500 ppb	498 ppb +/- 50 ppb	
Naphthalene	500 ppb	539 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	532 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	501 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	509 ppb +/- 50 ppb	
m-Xylene	500 ppb	495 ppb +/- 50 ppb	
o-Xylene	500 ppb	482 ppb +/- 50 ppb	
p-Xylene	500 ppb	488 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	498 ppb +/- 50 ppb	
R-22	500 ppb	590 ppb +/- 50 ppb	
Nitrogen	balance	balance	

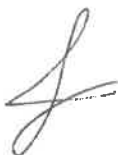
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

Signature:

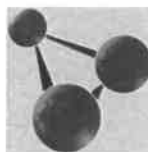
Date: 04/16/2025



*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.

rev 07/14/25

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

A1140

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountianside, NJ 07092

Cylinder Number: AD49101
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 04/16/2025
Expiration Date: 04/16/2026
Lot Number: 040424-003BR

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003R	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	460 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	471 ppb +/- 50 ppb	
Acrolein	500 ppb	480 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	476 ppb +/- 50 ppb	
Allyl chloride	500 ppb	453 ppb +/- 50 ppb	
Benzene	500 ppb	431 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	436 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	454 ppb +/- 50 ppb	
Bromoform	500 ppb	441 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	449 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	469 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	467 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	467 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	467 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	432 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	451 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	438 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	474 ppb +/- 50 ppb	
Chloroform	500 ppb	438 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	469 ppb +/- 50 ppb	
Cyclohexane	500 ppb	430 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	437 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	454 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	435 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	476 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	452 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	438 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	442 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	439 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	435 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	435 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	436 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	460 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	415 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	450 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	431 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	433 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	489 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	442 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	451 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	432 ppb +/- 50 ppb	
n-Heptane	500 ppb	434 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	436 ppb +/- 50 ppb	
2-Hexanone	500 ppb	437 ppb +/- 50 ppb	
n-Hexane	500 ppb	432 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	455 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	465 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	530 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	450 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	453 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	442 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	439 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	469 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	430 ppb +/- 50 ppb	
Methylene chloride	500 ppb	443 ppb +/- 50 ppb	
Naphthalene	500 ppb	478 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	525 ppb +/- 50 ppb	
Propylene	500 ppb	452 ppb +/- 50 ppb	
Styrene	500 ppb	432 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	471 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	431 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	434 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	477 ppb +/- 50 ppb	
Toluene	500 ppb	438 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	440 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	440 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	440 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	435 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	453 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	441 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	440 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	444 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	435 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	444 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	450 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	451 ppb +/- 50 ppb	
m-Xylene	500 ppb	439 ppb +/- 50 ppb	
o-Xylene	500 ppb	427 ppb +/- 50 ppb	
p-Xylene	500 ppb	433 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	497 ppb +/- 50 ppb	
R-22	500 ppb	435 ppb +/- 50 ppb	
Nitrogen	balance	balance	

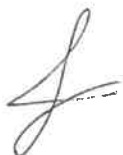
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

Signature:

Date: 04/16/2025



*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

Process Report

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

Order ID : Q3132

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
09/18/2025	B2509029	Q3132-01	-2.2	10599	6 L	10482		C2508002	VL042854.D Seq :VL081325 TUNE : VL042841.D ICAL : VL042847.D CCAL : VL042842.D MB : VL042850.D
09/18/2025	B2509029	Q3132-02	-6.7	10294	6 L	10696		C2508002	VL042854.D Seq :VL081325 TUNE : VL042841.D ICAL : VL042847.D CCAL : VL042842.D MB : VL042850.D



Canister Cleaning

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

Canister Batch : C2508002

Type of Canister : 6 L

Cleaning Date : 08/07/2025

Analyst : SAM

Oven Temperature : 125.0 c

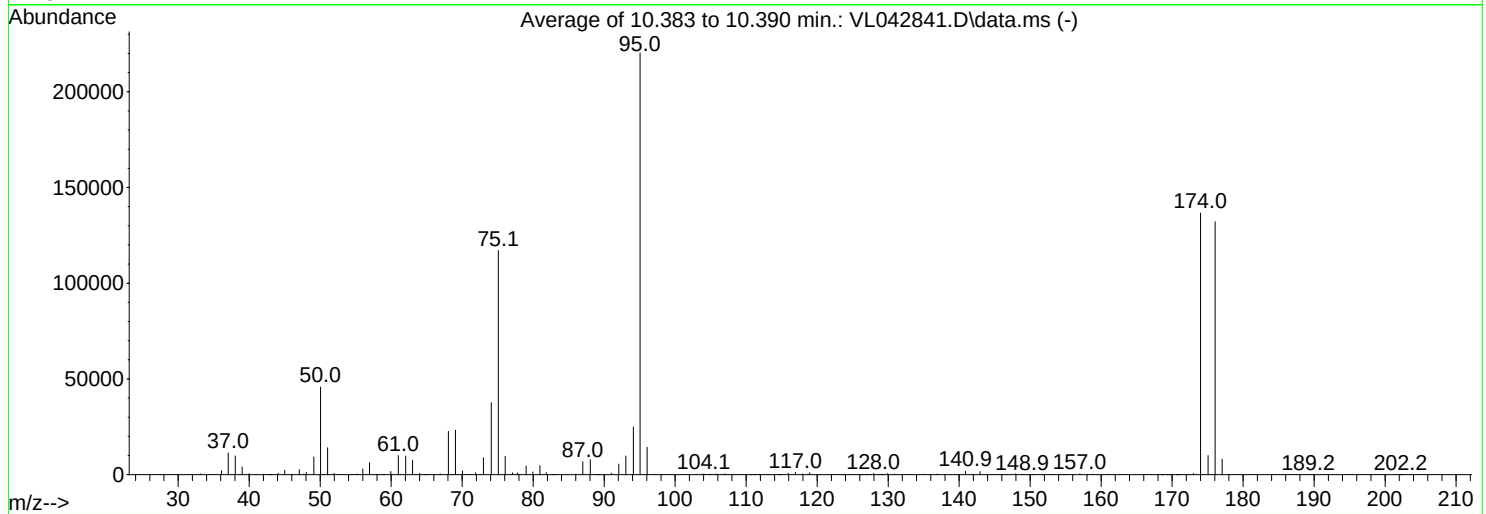
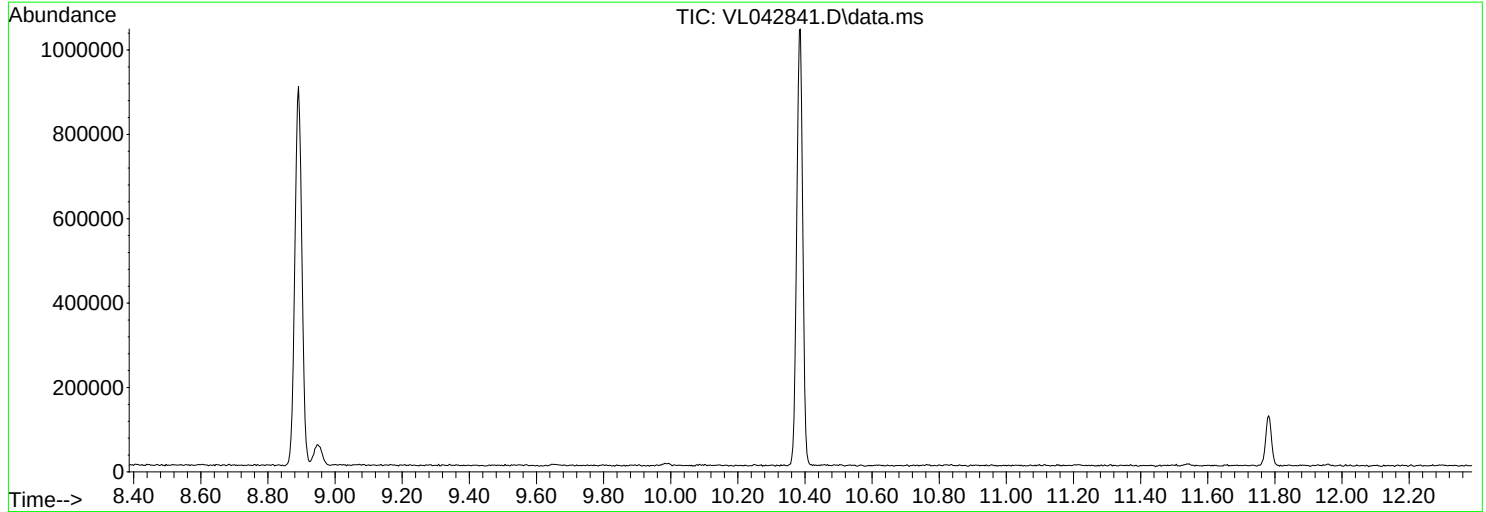
Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10599	-30	08/08/2025	08/13/2025	-30	08/11/2025	Q3132-01	10282	VL042854.D
10294	-30	08/08/2025	08/13/2025	-30	08/11/2025	Q3132-02	10282	VL042854.D
10154	-30	08/08/2025	08/13/2025	-30	08/11/2025	Q3130-01	10282	VL042854.D
10197	-30	08/08/2025	08/13/2025	-30	08/11/2025	Q3130-02	10282	VL042854.D
10267	-30	08/08/2025	08/13/2025	-30	08/11/2025	Q3154-01	10282	VL042854.D
10282	-30	08/08/2025	08/13/2025	-30	08/11/2025	Q3131-02	10282	VL042854.D
10275	-30	08/08/2025	08/13/2025	-30	08/11/2025	Q3131-01	10282	VL042854.D

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042841.D
Acq On : 13 Aug 2025 07:45
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Aug 14 02:12:54 2025



AutoFind: Scans 3181, 3182, 3183; 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	20.8	45819	PASS
75	95	30	66	53.1	117101	PASS
95	95	100	100	100.0	220336	PASS
96	95	5	9	6.5	14308	PASS
173	174	0.00	2	0.4	581	PASS
174	95	50	120	62.0	136669	PASS
175	174	4	9	7.3	9984	PASS
176	174	93	101	96.7	132147	PASS
177	176	5	9	6.1	8054	PASS

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

Method File : VL081325AIR.M

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

Last Update : Thu Aug 14 02:12:54 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042847.D 0.1 =VL042846.D 0.5 =VL042845.D 1 =VL042844.D 2 =VL042843.D 10 =VL042842.D 15 =VL042848.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.566	1.525	1.511	1.343	1.383	1.466	6.61
3) Chlorodifluoro...			1.752	1.621	1.714	1.509	1.504	1.620	7.05
4) Chloromethane			0.648	0.618	0.606	0.533	0.551	0.591	8.09
5) T Vinyl Chloride	0.728	0.639	0.593	0.559	0.550	0.502	0.507	0.582	13.72
6) T Bromomethane			0.248	0.268	0.239	0.203	0.206	0.233	12.06
7) Chloroethane			0.266	0.240	0.219	0.202	0.210	0.227	11.46
8) T Dichlorotetra...			1.273	1.235	1.245	1.122	1.122	1.199	6.02
9) T Propene			0.824	0.692	0.715	0.656	0.611	0.700	11.40
10) T Heptane			2.009	2.011	1.917	1.718	1.713	1.874	7.96
11) T Trichlorofluor...			1.614	1.533	1.467	1.271	1.345	1.446	9.59
12) T 1,1,2-Trichlor...			1.259	1.202	1.189	1.047	1.066	1.152	7.95
13) Ethanol			0.089	0.069	0.070	0.046	0.047	0.064	27.87
14) T Bromoethene			0.462	0.416	0.436	0.381	0.391	0.417	7.89
15) T Acetone			1.708	1.475	1.476	0.950	1.005	1.323	24.92
16) T 1,3-Butadiene			0.783	0.633	0.579	0.500	0.503	0.600	19.47
17) tert-Butyl alc...			1.920	1.660	1.557	1.371	1.335	1.569	15.14
18) T 1,1-Dichloroet...			0.552	0.509	0.532	0.469	0.472	0.507	7.21
19) T Isopropyl Alcohol			0.976	0.847	0.799	0.649	0.679	0.790	16.79
20) T Methylene Chlo...			0.792	0.596	0.544	0.414	0.425	0.554	27.79
21) T Allyl Chloride			1.122	0.902	0.945	0.850	0.854	0.935	11.98
22) T trans-1,2-Dich...			0.630	0.613	0.604	0.537	0.546	0.586	7.10
23) T Vinyl Acetate			2.161	1.733	1.849	1.663	1.689	1.819	11.22
24) T 1,1-Dichloroet...			1.317	1.223	1.185	1.040	1.088	1.171	9.38
25) T Ethyl Acetate			3.491	3.346	3.324	2.932	2.914	3.202	8.19
26) T Hexane			1.557	1.552	1.522	1.392	1.366	1.478	6.19
27) T Carbon Disulfide			1.504	1.513	1.511	1.314	1.348	1.438	6.84
28) T Methyl tert-Bu...			0.833	0.747	0.817	0.661	0.710	0.754	9.61
29) T Chloroform			2.299	2.183	2.166	1.932	1.970	2.110	7.32
30) T Cyclohexane			1.425	1.283	1.340	1.214	1.217	1.296	6.87
31) T cis-1,2-Dichlo...			1.625	1.524	1.524	1.346	1.362	1.476	8.06
32) T 1,1,1-Trichlor...	2.448	2.528	2.209	2.148	2.215	1.999	2.063	2.230	8.69

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.753	0.702	0.700	0.610	0.611	0.675	9.33
35) T Carbon Tetrach...	0.736	0.738	0.682	0.700	0.692	0.636	0.643	0.689	5.84
36) T Benzene			1.013	0.978	0.990	0.912	0.896	0.958	5.33
37) T 1,2-Dichloroet...			0.512	0.516	0.503	0.483	0.488	0.500	2.87
38) T Trichloroethene	0.416	0.448	0.501	0.448	0.453	0.399	0.397	0.437	8.35
39) T 1,2-Dichloropr...			0.378	0.365	0.356	0.324	0.326	0.350	6.84

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL081325AIR.M										
40) T	1,4-Dioxane			0.189	0.185	0.166	0.148	0.144	0.166	12.22
41) T	Tetrahydrofuran			0.395	0.389	0.392	0.355	0.351	0.376	5.64
42) T	Bromodichlorom...			0.786	0.742	0.777	0.708	0.714	0.745	4.77
43) T	Methyl Methacr...			0.427	0.402	0.415	0.368	0.362	0.394	7.31
44) T	2,2,4-Trimethy...			1.728	1.719	1.676	1.515	1.489	1.625	7.06
45) T	t-1,3-Dichloro...			0.450	0.464	0.456	0.428	0.427	0.445	3.73
46) T	cis-1,3-Dichlo...			0.568	0.559	0.578	0.539	0.529	0.555	3.67
47) T	1,1,2-Trichlor...			0.395	0.382	0.386	0.341	0.348	0.371	6.52
48) T	Dibromochlorom...			0.596	0.605	0.632	0.584	0.581	0.600	3.44
49) T	Bromoform			0.466	0.514	0.535	0.491	0.467	0.495	6.07
50) T	4-Methyl-2-Pen...			0.960	0.917	0.946	0.881	0.859	0.913	4.67
51) T	2-Hexanone			0.723	0.737	0.750	0.699	0.683	0.718	3.82
52) T	Tetrachloroethene	0.391	0.379	0.369	0.333	0.345	0.313	0.295	0.346	10.19
53) T	Toluene			1.219	1.180	1.160	1.072	1.061	1.138	6.09
54) T	1,2-Dibromoethane	0.599		0.549	0.532	0.552	0.506	0.512	0.542	6.24
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.534	0.549	0.551	0.476	0.476	0.517	7.39
57) T	Chlorobenzene			1.026	0.990	0.994	0.878	0.866	0.951	7.68
58) T	Ethyl Benzene			1.854	1.866	1.838	1.636	1.630	1.765	6.84
59) T	m/p-Xylene			1.447	1.454	1.455	1.283	1.277	1.383	6.81
60) T	o-Xylene			1.532	1.472	1.445	1.266	1.242	1.391	9.31
61) T	Styrene			0.711	0.677	0.660	0.610	0.601	0.652	7.09
62) T	Isopropylbenzene			2.149	2.194	2.133	1.852	1.838	2.033	8.53
63) T	1,1,2,2-Tetrac...	0.881	0.774	0.795	0.784	0.772	0.674	0.677	0.765	9.39
64) T	n-propylbenzene			0.570	0.528	0.549	0.475	0.472	0.519	8.47
65) T	tert-Butylbenzene			1.907	1.991	1.910	1.605	1.549	1.793	11.19
66) T	Benzyl Chloride			0.232	0.226	0.246	0.227	0.207	0.228	6.21
67) T	sec-Butylbenzene			2.669	2.754	2.706	2.250	2.202	2.516	10.62
68) S	1-Bromo-4-Fluo...	0.736	0.746	0.755	0.760	0.744	0.755	0.754	0.750	1.09
69) T	p-Isopropyltol...			2.338	2.372	2.328	1.905	1.856	2.160	11.85
70) T	n-Butylbenzene			2.234	2.303	2.333	1.927	1.915	2.142	9.58
71) T	2-Chlorotoluene			1.709	1.719	1.641	1.418	1.408	1.579	9.77
72) T	4-Ethyltoluene			1.738	1.806	1.784	1.563	1.543	1.687	7.39
73) T	1,3,5-Trimethy...			1.548	1.535	1.512	1.293	1.283	1.434	9.37
74) T	1,2,4-Trimethy...			1.710	1.706	1.698	1.394	1.365	1.574	11.33
75) T	1,3-Dichlorobe...			0.937	0.946	0.967	0.831	0.795	0.895	8.59
76) T	1,4-Dichlorobe...			0.966	0.946	0.978	0.833	0.803	0.905	8.93
77) T	1,2-Dichlorobe...			0.937	0.956	0.947	0.781	0.761	0.876	11.03
78) T	Hexachloro-1,3...			0.814	0.845	0.804	0.572	0.556	0.718	19.74
79) T	Naphthalene	1.174		1.383	1.647	1.746	1.315	1.300	1.427	15.50
80) T	Naphthalene,2-...			0.430	0.554	0.708	0.478	0.497	0.533	20.15
81) T	1,2,4-Trichlor...			0.623	0.797	0.855	0.661	0.650	0.717	14.24

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042842.D
 Acq On : 13 Aug 2025 08:30
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:45:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	133104	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	413632	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	370372	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 279557 10.064 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	178799	9.166	ppbv	100
3) Chlorodifluoromethane	1.476	51	200866	9.306	ppbv	100
4) Chloromethane	1.534	50	70952	9.013	ppbv	100
5) Vinyl Chloride	1.583	62	66768	8.612	ppbv	100
6) Bromomethane	1.670	94	26964	8.698	ppbv	100
7) Chloroethane	1.706	64	26884	8.879	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	149341	9.355	ppbv	100
9) Propene	1.486	41	87352	9.380	ppbv	100
10) Heptane	4.988	43	228679	9.186	ppbv	100
11) Trichlorofluoromethane	1.881	101	169157	8.789	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	139340	9.083	ppbv	100
13) Ethanol	1.722	45	6172	6.690	ppbv	100
14) Bromoethene	1.784	108	50730	9.135	ppbv	100
15) Acetone	1.839	43	126419	7.180	ppbv	100
16) 1,3-Butadiene	1.612	39	66595	8.343	ppbv	100
17) tert-Butyl alcohol	2.043	59	182511	8.741	ppbv	100
18) 1,1-Dichloroethene	2.036	96	62397	9.252	ppbv	100
19) Isopropyl Alcohol	1.887	45	86367	8.213	ppbv	100
20) Methylene Chloride	2.065	84	55107	7.471	ppbv	100
21) Allyl Chloride	2.098	41	113105	9.093	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	71518	9.482	ppbv	100
23) Vinyl Acetate	2.467	43	221395	9.558	ppbv	100
24) 1,1-Dichloroethane	2.412	63	138444	8.885	ppbv	100
25) Ethyl Acetate	2.839	43	390295	9.159	ppbv	100
26) Hexane	2.829	57	185288	9.420	ppbv	100
27) Carbon Disulfide	2.153	76	174928	9.138	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	87929	8.767	ppbv	100
29) Chloroform	2.852	83	257176	9.158	ppbv	100
30) Cyclohexane	3.862	84	161540	9.367	ppbv	100
31) cis-1,2-Dichloroethene	2.726	61	179162	9.107	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	266021	8.946	ppbv	100
34) 2-Butanone	2.560	43	252300	9.033	ppbv	100
35) Carbon Tetrachloride	3.771	117	262983	9.222	ppbv	100
36) Benzene	3.664	78	377113	9.521	ppbv	100
37) 1,2-Dichloroethane	3.224	62	199762	9.653	ppbv	100
38) Trichloroethene	4.557	130	164881	9.115	ppbv	100
39) 1,2-Dichloropropane	4.324	63	133996	9.263	ppbv	100
40) 1,4-Dioxane	4.590	88	61378	9.064	ppbv #	100
41) Tetrahydrofuran	3.059	42	147025	9.442	ppbv	100
42) Bromodichloromethane	4.499	83	292909	9.499	ppbv	100
43) Methyl Methacrylate	4.891	69	152035	9.357	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	626465	9.420	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	177207	9.616	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042842.D
 Acq On : 13 Aug 2025 08:30
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:45:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	222921	9.635	ppbv	100
47) 1,1,2-Trichloroethane	6.590	97	141105	9.215	ppbv	100
48) Dibromochloromethane	7.396	129	241553	9.739	ppbv	100
49) Bromoform	9.490	173	202975	9.923	ppbv	100
50) 4-Methyl-2-Pentanone	5.761	43	364306	9.616	ppbv	100
51) 2-Hexanone	7.441	43	289052	9.730	ppbv #	100
52) Tetrachloroethene	8.234	164	129484	9.026	ppbv	100
53) Toluene	6.943	91	443400	9.407	ppbv	100
54) 1,2-Dibromoethane	7.661	107	209330	9.345	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.933	131	176135	9.196	ppbv	100
57) Chlorobenzene	8.930	112	325303	9.237	ppbv	100
58) Ethyl Benzene	9.364	91	605785	9.268	ppbv	100
59) m/p-Xylene	9.542	91	950548m	18.524	ppbv	
60) o-Xylene	9.972	91	469073	9.102	ppbv	100
61) Styrene	9.879	104	226056	9.362	ppbv	100
62) Isopropylbenzene	10.549	105	685983	9.108	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	249621	8.870	ppbv	100
64) n-propylbenzene	10.995	120	175986	9.158	ppbv	100
65) tert-Butylbenzene	11.539	119	594314	8.951	ppbv	100
66) Benzyl Chloride	11.620	91	84156	9.985	ppbv	100
67) sec-Butylbenzene	11.772	105	833378	8.943	ppbv	100
69) p-Isopropyltoluene	11.931	119	705700	8.820	ppbv	100
70) n-Butylbenzene	12.287	91	713713	8.995	ppbv	100
71) 2-Chlorotoluene	10.908	91	525235	8.981	ppbv	100
72) 4-Ethyltoluene	11.131	105	578931	9.267	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	478784	9.012	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	516253	8.853	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	307640	9.280	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	308542	9.203	ppbv	100
77) 1,2-Dichlorobenzene	11.953	146	289119	8.907	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	211996	7.968	ppbv	100
79) Naphthalene	13.516	128	487174	9.335	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	176880	9.000	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	244998	9.220	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	130555	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	408144	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	363830	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 270774 9.923 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	39443	2.061	ppbv	99
3) Chlorodifluoromethane	1.480	51	44759	2.114	ppbv	96
4) Chloromethane	1.535	50	15826	2.050	ppbv	99
5) Vinyl Chloride	1.583	62	14358	1.888	ppbv	97
6) Bromomethane	1.670	94	6248	2.055	ppbv	97
7) Chloroethane	1.706	64	5717	1.925	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	32496	2.075	ppbv	98
9) Propene	1.486	41	18678	2.045	ppbv	89
10) Heptane	4.991	43	50062	2.050	ppbv	97
11) Trichlorofluoromethane	1.881	101	38308	2.029	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.146	101	31052	2.064	ppbv	99
13) Ethanol	1.725	45	1817m	2.008	ppbv	
14) Bromoethene	1.784	108	11376	2.089	ppbv	96
15) Acetone	1.839	43	38531	2.231	ppbv	96
16) 1,3-Butadiene	1.612	39	15122	1.932	ppbv	98
17) tert-Butyl alcohol	2.046	59	40652	1.985	ppbv	97
18) 1,1-Dichloroethene	2.039	96	13883	2.099	ppbv	95
19) Isopropyl Alcohol	1.891	45	20866	2.023	ppbv #	39
20) Methylene Chloride	2.065	84	14204	1.963	ppbv #	92
21) Allyl Chloride	2.101	41	24662	2.021	ppbv	96
22) trans-1,2-Dichloroethene	2.344	96	15773	2.132	ppbv	96
23) Vinyl Acetate	2.467	43	48269	2.125	ppbv #	98
24) 1,1-Dichloroethane	2.415	63	30931	2.024	ppbv	98
25) Ethyl Acetate	2.842	43	86804	2.077	ppbv	98
26) Hexane	2.832	57	39735	2.060	ppbv	94
27) Carbon Disulfide	2.156	76	39466	2.102	ppbv #	15
28) Methyl tert-Butyl Ether	2.444	73	21341	2.169	ppbv	96
29) Chloroform	2.855	83	56553	2.053	ppbv	95
30) Cyclohexane	3.868	84	34992	2.069	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	39783	2.062	ppbv	95
32) 1,1,1-Trichloroethane	3.376	97	57837	1.983	ppbv	100
34) 2-Butanone	2.564	43	57172	2.075	ppbv	98
35) Carbon Tetrachloride	3.771	117	56459	2.007	ppbv	97
36) Benzene	3.664	78	80781	2.067	ppbv	98
37) 1,2-Dichloroethane	3.227	62	41034	2.010	ppbv	97
38) Trichloroethene	4.561	130	36990	2.072	ppbv #	86
39) 1,2-Dichloropropane	4.328	63	29059	2.036	ppbv	98
40) 1,4-Dioxane	4.606	88	13510m	2.022	ppbv	
41) Tetrahydrofuran	3.062	42	31994	2.082	ppbv	97
42) Bromodichloromethane	4.503	83	63436	2.085	ppbv	97
43) Methyl Methacrylate	4.888	69	33851m	2.111	ppbv	
44) 2,2,4-Trimethylpentane	4.655	57	136794	2.085	ppbv	98
45) t-1,3-Dichloropropene	6.428	75	37248	2.048	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	47201m	2.067	ppbv	
47) 1,1,2-Trichloroethane	6.593	97	31477m	2.083	ppbv	
48) Dibromochloromethane	7.399	129	51620	2.109	ppbv	100
49) Bromoform	9.493	173	43662	2.163	ppbv	99
50) 4-Methyl-2-Pentanone	5.768	43	77225	2.066	ppbv	99
51) 2-Hexanone	7.451	43	61210	2.088	ppbv #	98
52) Tetrachloroethene	8.234	164	28166	1.990	ppbv	92
53) Toluene	6.946	91	94690	2.036	ppbv	98
54) 1,2-Dibromoethane	7.665	107	45071	2.039	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.933	131	40090	2.131	ppbv	97
57) Chlorobenzene	8.933	112	72296	2.090	ppbv	97
58) Ethyl Benzene	9.364	91	133719	2.083	ppbv	99
59) m/p-Xylene	9.558	91	211704m	4.200	ppbv	
60) o-Xylene	9.972	91	105125	2.077	ppbv	100
61) Styrene	9.879	104	48027	2.025	ppbv	96
62) Isopropylbenzene	10.545	105	155223	2.098	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	56139	2.031	ppbv	98
64) n-propylbenzene	10.995	120	39922	2.115	ppbv	97
65) tert-Butylbenzene	11.536	119	139019	2.132	ppbv	99
66) Benzyl Chloride	11.623	91	17893	2.161	ppbv	97
67) sec-Butylbenzene	11.772	105	196899	2.151	ppbv	98
69) p-Isopropyltoluene	11.931	119	169429	2.156	ppbv	99
70) n-Butylbenzene	12.287	91	169768	2.178	ppbv	99
71) 2-Chlorotoluene	10.908	91	119382	2.078	ppbv	99
72) 4-Ethyltoluene	11.131	105	129786	2.115	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	110043	2.109	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	123554	2.157	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	70330	2.160	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	71160	2.161	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	68944	2.162	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	58509	2.239	ppbv	100
79) Naphthalene	13.517	128	127025	2.478	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	51541	2.670	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	62216	2.384	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042844.D
 Acq On : 13 Aug 2025 09:41
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:47:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	128542	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	400305	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	349577	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 265708 10.135 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	19603	1.041	ppbv	99
3) Chlorodifluoromethane	1.476	51	20833	0.999	ppbv	93
4) Chloromethane	1.535	50	7948	1.045	ppbv	96
5) Vinyl Chloride	1.583	62	7189	0.960	ppbv	96
6) Bromomethane	1.667	94	3446	1.151	ppbv	84
7) Chloroethane	1.706	64	3089	1.056	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	15872	1.030	ppbv	100
9) Propene	1.486	41	8897	0.989	ppbv	89
10) Heptane	4.985	43	25850m	1.075	ppbv	
11) Trichlorofluoromethane	1.881	101	19701	1.060	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	15446	1.043	ppbv	97
13) Ethanol	1.722	45	883m	0.991	ppbv	
14) Bromoethene	1.784	108	5343	0.996	ppbv #	78
15) Acetone	1.839	43	18961	1.115	ppbv	98
16) 1,3-Butadiene	1.609	39	8133	1.055	ppbv	98
17) tert-Butyl alcohol	2.046	59	21342	1.058	ppbv #	93
18) 1,1-Dichloroethene	2.040	96	6549	1.006	ppbv	93
19) Isopropyl Alcohol	1.888	45	10893	1.073	ppbv #	39
20) Methylene Chloride	2.062	84	7661	1.076	ppbv #	90
21) Allyl Chloride	2.098	41	11598	0.966	ppbv	88
22) trans-1,2-Dichloroethene	2.344	96	7882m	1.082	ppbv	
23) Vinyl Acetate	2.467	43	22270	0.996	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	15727	1.045	ppbv	98
25) Ethyl Acetate	2.842	43	43007	1.045	ppbv	98
26) Hexane	2.829	57	19944	1.050	ppbv	92
27) Carbon Disulfide	2.153	76	19450	1.052	ppbv #	2
28) Methyl tert-Butyl Ether	2.444	73	9600	0.991	ppbv #	88
29) Chloroform	2.852	83	28055	1.034	ppbv	97
30) Cyclohexane	3.865	84	16492	0.990	ppbv	90
31) cis-1,2-Dichloroethene	2.723	61	19591	1.031	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	27607	0.961	ppbv	97
34) 2-Butanone	2.564	43	28105	1.040	ppbv	98
35) Carbon Tetrachloride	3.768	117	28008	1.015	ppbv	93
36) Benzene	3.661	78	39137	1.021	ppbv #	94
37) 1,2-Dichloroethane	3.224	62	20645	1.031	ppbv	97
38) Trichloroethene	4.555	130	17921	1.024	ppbv #	89
39) 1,2-Dichloropropane	4.325	63	14595m	1.042	ppbv	
40) 1,4-Dioxane	4.603	88	7386m	1.127	ppbv	
41) Tetrahydrofuran	3.062	42	15552	1.032	ppbv	94
42) Bromodichloromethane	4.499	83	29683	0.995	ppbv	99
43) Methyl Methacrylate	4.885	69	16073m	1.022	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	68813m	1.069	ppbv	
45) t-1,3-Dichloropropene	6.419	75	18580m	1.042	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042844.D
 Acq On : 13 Aug 2025 09:41
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:47:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.610	75	22372	0.999	ppbv	94
47) 1,1,2-Trichloroethane	6.597	97	15295	1.032	ppbv	86
48) Dibromochloromethane	7.396	129	24214	1.009	ppbv	99
49) Bromoform	9.490	173	20579	1.040	ppbv	98
50) 4-Methyl-2-Pentanone	5.768	43	36710	1.001	ppbv	98
51) 2-Hexanone	7.451	43	29487	1.026	ppbv #	99
52) Tetrachloroethene	8.235	164	13322	0.960	ppbv	90
53) Toluene	6.946	91	47256	1.036	ppbv	99
54) 1,2-Dibromoethane	7.665	107	21280	0.982	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.930	131	19176	1.061	ppbv	96
57) Chlorobenzene	8.930	112	34617	1.041	ppbv #	91
58) Ethyl Benzene	9.361	91	65223	1.057	ppbv	95
59) m/p-Xylene	9.558	91	101634m	2.098	ppbv	
60) o-Xylene	9.969	91	51445	1.058	ppbv	99
61) Styrene	9.879	104	23660	1.038	ppbv	100
62) Isopropylbenzene	10.546	105	76708	1.079	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	27410	1.032	ppbv	98
64) n-propylbenzene	10.995	120	18462	1.018	ppbv	90
65) tert-Butylbenzene	11.536	119	69617	1.111	ppbv	99
66) Benzyl Chloride	11.617	91	7900	0.993	ppbv	98
67) sec-Butylbenzene	11.772	105	96288	1.095	ppbv	98
69) p-Isopropyltoluene	11.931	119	82934	1.098	ppbv	99
70) n-Butylbenzene	12.287	91	80511	1.075	ppbv	99
71) 2-Chlorotoluene	10.908	91	60086	1.089	ppbv	100
72) 4-Ethyltoluene	11.131	105	63147	1.071	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	53676	1.070	ppbv	95
74) 1,2,4-Trimethylbenzene	11.539	105	59633	1.083	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	33061	1.057	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	33064	1.045	ppbv	96
77) 1,2-Dichlorobenzene	11.950	146	33404	1.090	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	29555	1.177	ppbv	95
79) Naphthalene	13.517	128	57580	1.169	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	19375	1.045	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	27861	1.111	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042845.D
 Acq On : 13 Aug 2025 10:17
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Aug 14 01:48:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	126879	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	396264	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	348005	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 262663 10.064 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	9937	0.534	ppbv	100
3) Chlorodifluoromethane	1.479	51	11115	0.540	ppbv	96
4) Chloromethane	1.538	50	4112	0.548	ppbv	90
5) Vinyl Chloride	1.586	62	3762	0.509	ppbv	94
6) Bromomethane	1.674	94	1576	0.533	ppbv	82
7) Chloroethane	1.709	64	1690	0.586	ppbv #	85
8) Dichlorotetrafluoroethane	1.557	85	8079	0.531	ppbv	95
9) Propene	1.489	41	5225	0.589	ppbv	91
10) Heptane	4.998	43	12747	0.537	ppbv	93
11) Trichlorofluoromethane	1.884	101	10238	0.558	ppbv	98
12) 1,1,2-Trichlorotrifluoro...	2.146	101	7984	0.546	ppbv	98
13) Ethanol	1.725	45	562	0.639	ppbv #	1
14) Bromoethene	1.787	108	2932	0.554	ppbv #	85
15) Acetone	1.842	43	10836	0.646	ppbv	98
16) 1,3-Butadiene	1.612	39	4970	0.653	ppbv	99
17) tert-Butyl alcohol	2.049	59	12182	0.612	ppbv #	89
18) 1,1-Dichloroethene	2.039	96	3501	0.545	ppbv	92
19) Isopropyl Alcohol	1.891	45	6194	0.618	ppbv #	56
20) Methylene Chloride	2.069	84	5025	0.715	ppbv	90
21) Allyl Chloride	2.104	41	7120	0.600	ppbv #	76
22) trans-1,2-Dichloroethene	2.350	96	3996	0.556	ppbv	96
23) Vinyl Acetate	2.470	43	13709	0.621	ppbv #	98
24) 1,1-Dichloroethane	2.418	63	8354	0.562	ppbv #	96
25) Ethyl Acetate	2.845	43	22148	0.545	ppbv #	96
26) Hexane	2.832	57	9879	0.527	ppbv	85
27) Carbon Disulfide	2.156	76	9539	0.523	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	5284	0.553	ppbv #	62
29) Chloroform	2.858	83	14586	0.545	ppbv	100
30) Cyclohexane	3.868	84	9037	0.550	ppbv	94
31) cis-1,2-Dichloroethene	2.729	61	10308	0.550	ppbv #	86
32) 1,1,1-Trichloroethane	3.379	97	14011	0.494	ppbv	97
34) 2-Butanone	2.567	43	14923	0.558	ppbv	100
35) Carbon Tetrachloride	3.774	117	13507	0.494	ppbv	97
36) Benzene	3.671	78	20073	0.529	ppbv	98
37) 1,2-Dichloroethane	3.230	62	10141	0.512	ppbv #	93
38) Trichloroethene	4.564	130	9918	0.572	ppbv #	88
39) 1,2-Dichloropropane	4.334	63	7491	0.541	ppbv	86
40) 1,4-Dioxane	4.613	88	3743m	0.577	ppbv	
41) Tetrahydrofuran	3.072	42	7827	0.525	ppbv	93
42) Bromodichloromethane	4.509	83	15580	0.527	ppbv #	94
43) Methyl Methacrylate	4.897	69	8461m	0.544	ppbv	
44) 2,2,4-Trimethylpentane	4.661	57	34237m	0.537	ppbv	
45) t-1,3-Dichloropropene	6.435	75	8911m	0.505	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042845.D
 Acq On : 13 Aug 2025 10:17
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:48:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	11259m	0.508	ppbv	
47) 1,1,2-Trichloroethane	6.603	97	7835m	0.534	ppbv	
48) Dibromochloromethane	7.406	129	11805	0.497	ppbv	100
49) Bromoform	9.497	173	9232	0.471	ppbv	95
50) 4-Methyl-2-Pentanone	5.778	43	19028m	0.524	ppbv	
51) 2-Hexanone	7.458	43	14329	0.503	ppbv #	99
52) Tetrachloroethene	8.244	164	7304	0.531	ppbv #	87
53) Toluene	6.956	91	24155m	0.535	ppbv	
54) 1,2-Dibromoethane	7.668	107	10873	0.507	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.940	131	9300	0.517	ppbv #	1
57) Chlorobenzene	8.937	112	17845	0.539	ppbv #	96
58) Ethyl Benzene	9.370	91	32261	0.525	ppbv	99
59) m/p-Xylene	9.561	91	50372m	1.045	ppbv	
60) o-Xylene	9.979	91	26662	0.551	ppbv	100
61) Styrene	9.885	104	12379	0.546	ppbv	95
62) Isopropylbenzene	10.552	105	37401	0.529	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.976	83	13828	0.523	ppbv	95
64) n-propylbenzene	10.998	120	9922	0.550	ppbv	98
65) tert-Butylbenzene	11.542	119	33183	0.532	ppbv	97
66) Benzyl Chloride	11.626	91	4039	0.510	ppbv #	97
67) sec-Butylbenzene	11.778	105	46433	0.530	ppbv	96
69) p-Isopropyltoluene	11.934	119	40686	0.541	ppbv	99
70) n-Butylbenzene	12.290	91	38867	0.521	ppbv	99
71) 2-Chlorotoluene	10.911	91	29736	0.541	ppbv	97
72) 4-Ethyltoluene	11.138	105	30234	0.515	ppbv	97
73) 1,3,5-Trimethylbenzene	11.212	105	26942	0.540	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	29750	0.543	ppbv	94
75) 1,3-Dichlorobenzene	11.617	146	16311	0.524	ppbv	95
76) 1,4-Dichlorobenzene	11.681	146	16803	0.533	ppbv	98
77) 1,2-Dichlorobenzene	11.956	146	16306	0.535	ppbv	97
78) Hexachloro-1,3-Butadiene	13.885	225	14165	0.567	ppbv	99
79) Naphthalene	13.520	128	24056	0.491	ppbv	96
80) Naphthalene,2-methyl-	14.465	142	7482	0.405	ppbv	95
81) 1,2,4-Trichlorobenzene	13.449	180	10844	0.434	ppbv	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042846.D
 Acq On : 13 Aug 2025 10:53
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:49:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 14 2025
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	123711	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	390520	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	345073	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	257439	9.948	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	790	0.110	ppbv #	86
32) 1,1,1-Trichloroethane	3.373	97	3128m	0.113	ppbv	
35) Carbon Tetrachloride	3.774	117	2883	0.107	ppbv	89
38) Trichloroethene	4.557	130	1748m	0.102	ppbv	
52) Tetrachloroethene	8.234	164	1479m	0.109	ppbv	
54) 1,2-Dibromoethane	7.665	107	2339m	0.111	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.972	83	2672	0.102	ppbv	99
79) Naphthalene	13.520	128	4051m	0.083	ppbv	

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

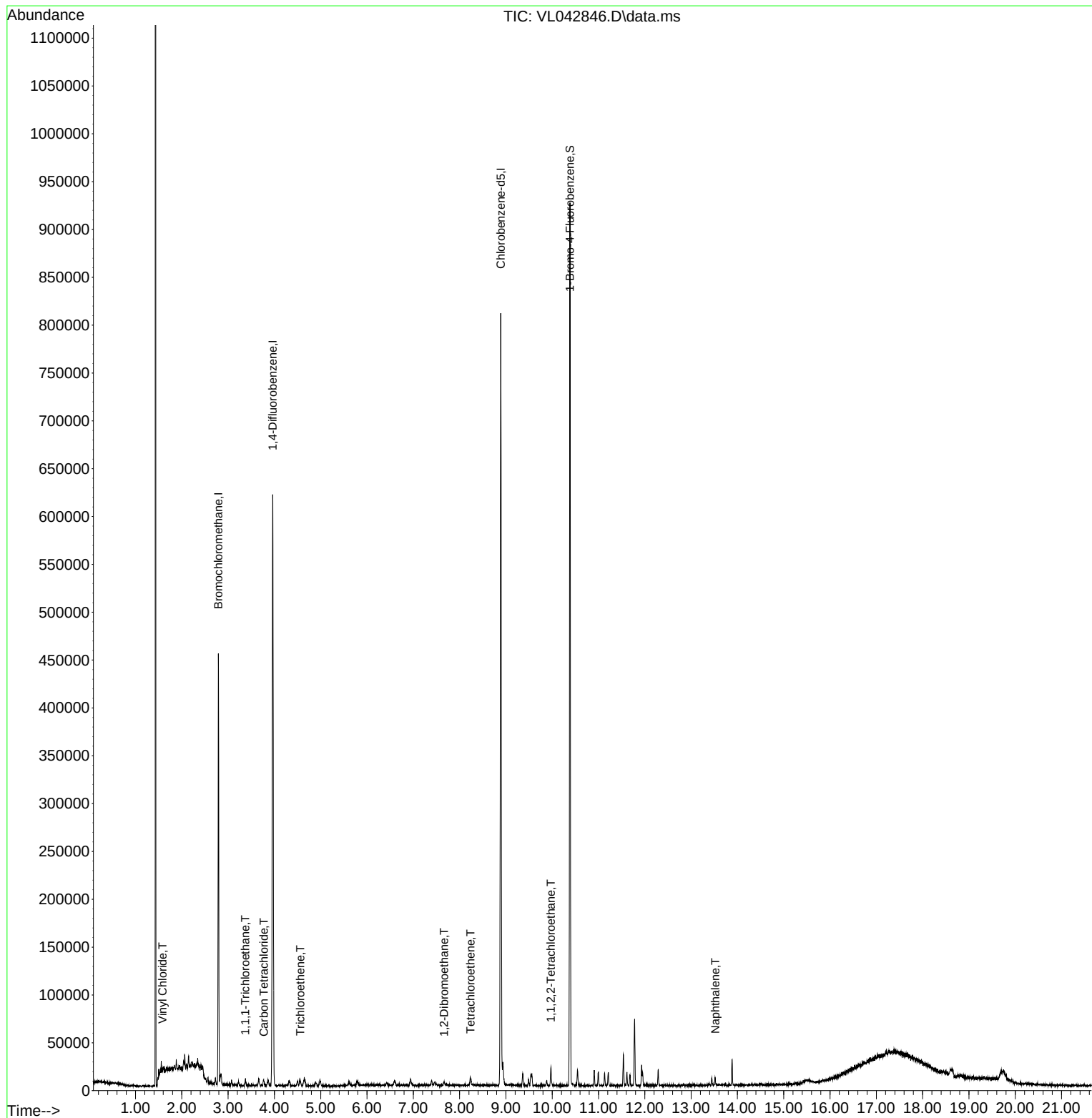
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042846.D
Acq On : 13 Aug 2025 10:53
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042847.D
 Acq On : 13 Aug 2025 11:30
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:50:16 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	122705	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	390076	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	339700	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	250082	9.816	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	268	0.037	ppbv #	81
32) 1,1,1-Trichloroethane	3.379	97	901m	0.033	ppbv	
35) Carbon Tetrachloride	3.774	117	861m	0.032	ppbv	
38) Trichloroethene	4.573	130	487m	0.029	ppbv	
52) Tetrachloroethene	8.241	164	458m	0.034	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.979	83	898m	0.035	ppbv	

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

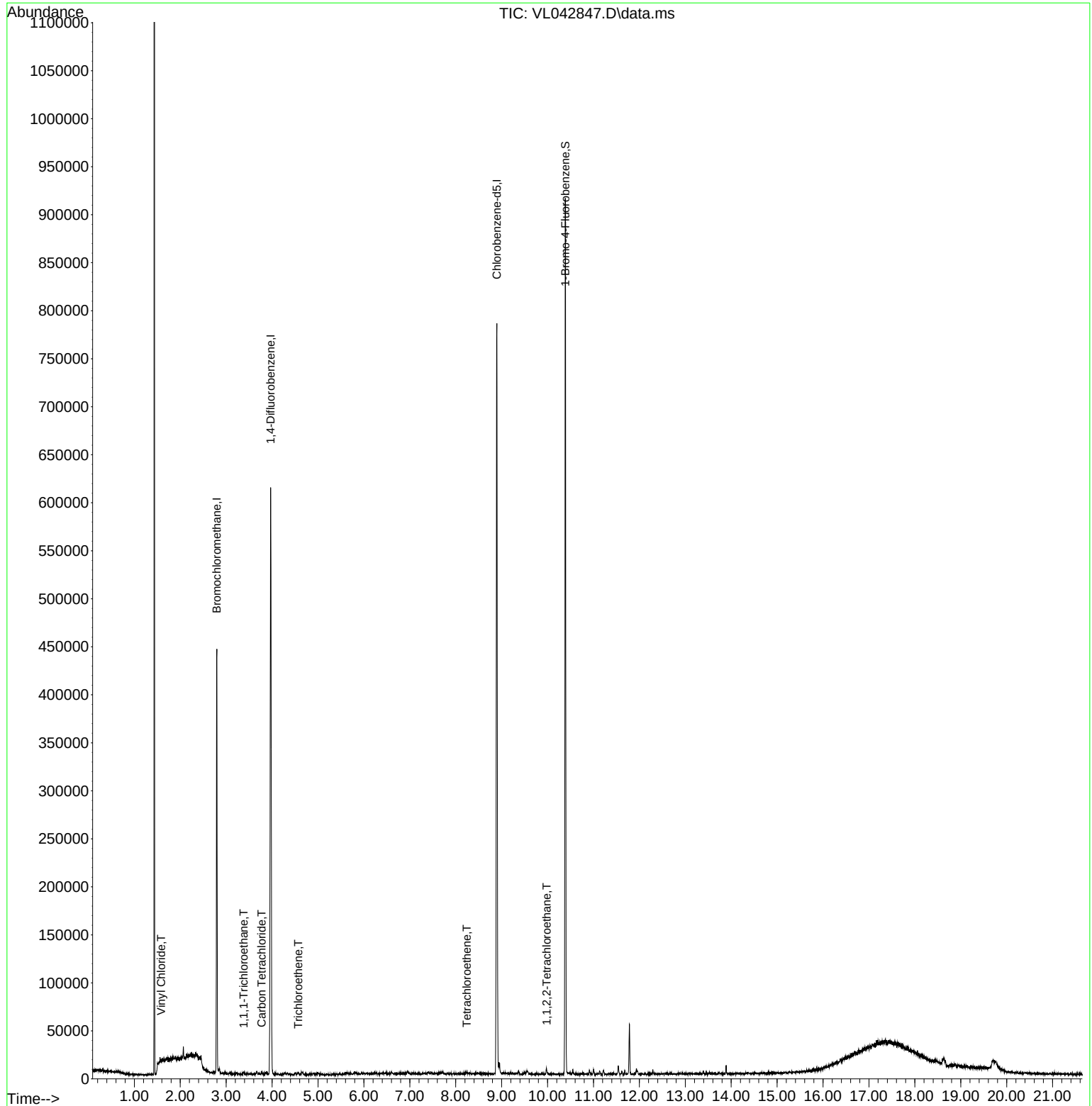
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042847.D
Acq On : 13 Aug 2025 11:30
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:50:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:51:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	122073	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	380877	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	337876	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.384 95 254655 10.050 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	253151	14.150	ppbv	99
3) Chlorodifluoromethane	1.480	51	275350	13.910	ppbv	99
4) Chloromethane	1.535	50	100974	13.986	ppbv	99
5) Vinyl Chloride	1.583	62	92812	13.053	ppbv	100
6) Bromomethane	1.671	94	37740	13.275	ppbv	96
7) Chloroethane	1.706	64	38398	13.828	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	205386	14.029	ppbv	98
9) Propene	1.486	41	111824	13.094	ppbv	99
10) Heptane	4.988	43	313734	13.742	ppbv	99
11) Trichlorofluoromethane	1.881	101	246354	13.957	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	195231	13.877	ppbv	99
13) Ethanol	1.722	45	8534	10.086	ppbv	98
14) Bromoethene	1.784	108	71671	14.072	ppbv	99
15) Acetone	1.839	43	184116	11.402	ppbv	100
16) 1,3-Butadiene	1.612	39	92068	12.577	ppbv	100
17) tert-Butyl alcohol	2.043	59	244441	12.765	ppbv	100
18) 1,1-Dichloroethene	2.036	96	86349	13.961	ppbv	97
19) Isopropyl Alcohol	1.887	45	124270	12.885	ppbv	99
20) Methylene Chloride	2.065	84	77749	11.494	ppbv	97
21) Allyl Chloride	2.101	41	156318	13.703	ppbv	95
22) trans-1,2-Dichloroethene	2.344	96	100064	14.465	ppbv	95
23) Vinyl Acetate	2.467	43	309236	14.557	ppbv	98
24) 1,1-Dichloroethane	2.412	63	199276	13.944	ppbv	98
25) Ethyl Acetate	2.839	43	533600	13.653	ppbv	99
26) Hexane	2.833	57	250189	13.869	ppbv	98
27) Carbon Disulfide	2.153	76	246868	14.062	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	129978	14.131	ppbv	91
29) Chloroform	2.855	83	360661	14.003	ppbv	99
30) Cyclohexane	3.865	84	222820	14.088	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	249376	13.821	ppbv	96
32) 1,1,1-Trichloroethane	3.376	97	377739	13.851	ppbv	100
34) 2-Butanone	2.561	43	348815	13.563	ppbv	99
35) Carbon Tetrachloride	3.771	117	367354	13.990	ppbv	97
36) Benzene	3.664	78	511811	14.033	ppbv	99
37) 1,2-Dichloroethane	3.224	62	278934	14.639	ppbv	99
38) Trichloroethene	4.558	130	227091	13.634	ppbv	96
39) 1,2-Dichloropropane	4.325	63	186277	13.984	ppbv	95
40) 1,4-Dioxane	4.593	88	82385	13.212	ppbv #	91
41) Tetrahydrofuran	3.056	42	200751	14.001	ppbv	99
42) Bromodichloromethane	4.499	83	408089	14.372	ppbv	97
43) Methyl Methacrylate	4.888	69	206590	13.808	ppbv	99
44) 2,2,4-Trimethylpentane	4.652	57	850847	13.895	ppbv	99
45) t-1,3-Dichloropropene	6.428	75	244117	14.387	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:51:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	302339	14.191	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	199067	14.118	ppbv	98
48) Dibromochloromethane	7.399	129	331947	14.535	ppbv	99
49) Bromoform	9.494	173	266732	14.162	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	490917	14.073	ppbv	100
51) 2-Hexanone	7.448	43	389940	14.255	ppbv	100
52) Tetrachloroethene	8.238	164	168712	12.772	ppbv	98
53) Toluene	6.943	91	605941	13.961	ppbv	100
54) 1,2-Dibromoethane	7.665	107	292327	14.173	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.934	131	241293	13.810	ppbv	99
57) Chlorobenzene	8.934	112	439109	13.668	ppbv	99
58) Ethyl Benzene	9.364	91	826316	13.859	ppbv	99
59) m/p-Xylene	9.561	91	1294381m	27.650	ppbv	
60) o-Xylene	9.973	91	629445	13.389	ppbv	100
61) Styrene	9.882	104	304560	13.827	ppbv	99
62) Isopropylbenzene	10.549	105	931574	13.559	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.973	83	342890	13.356	ppbv	98
64) n-propylbenzene	10.999	120	239209	13.646	ppbv	98
65) tert-Butylbenzene	11.539	119	785250	12.965	ppbv	98
66) Benzyl Chloride	11.623	91	104698	13.617	ppbv	99
67) sec-Butylbenzene	11.775	105	1115979	13.127	ppbv	100
69) p-Isopropyltoluene	11.931	119	940888	12.891	ppbv	98
70) n-Butylbenzene	12.287	91	970700	13.410	ppbv	100
71) 2-Chlorotoluene	10.911	91	713696	13.378	ppbv	99
72) 4-Ethyltoluene	11.134	105	782057	13.722	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	650280	13.418	ppbv	99
74) 1,2,4-Trimethylbenzene	11.546	105	691709	13.003	ppbv	95
75) 1,3-Dichlorobenzene	11.617	146	402850	13.321	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	407214	13.314	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	385866	13.031	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	281581	11.602	ppbv	99
79) Naphthalene	13.517	128	658732	13.837	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	251753	14.042	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	329641	13.599	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

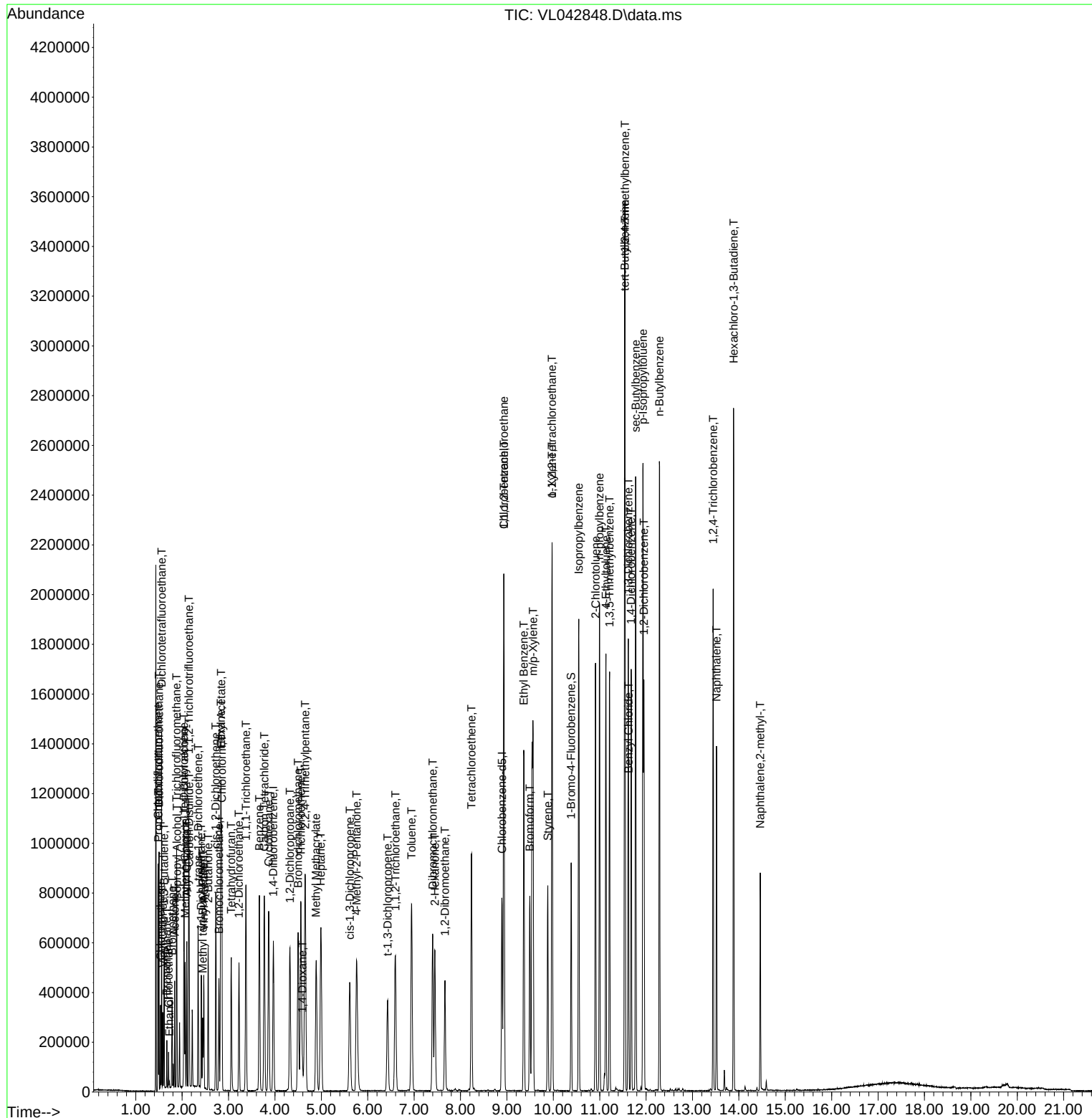
Quant Time: Aug 14 01:51:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:16:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	122486	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	374448	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	333493	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 252268 10.086 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	163446	9.105	ppbv	96
3) Chlorodifluoromethane	1.476	51	185078	9.327	ppbv	100
4) Chloromethane	1.535	50	63634	8.784	ppbv	100
5) Vinyl Chloride	1.583	62	58729	8.232	ppbv	96
6) Bromomethane	1.670	94	25105	8.801	ppbv	97
7) Chloroethane	1.706	64	23293	8.360	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	135845	9.248	ppbv	99
9) Propene	1.483	41	76457	8.922	ppbv	97
10) Heptane	4.988	43	206333	8.990	ppbv	99
11) Trichlorofluoromethane	1.881	101	154211	8.707	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	124558	8.824	ppbv	99
13) Ethanol	1.722	45	6016	7.678	ppbv	96
14) Bromoethene	1.784	108	46528	9.105	ppbv	98
15) Acetone	1.839	43	119723	7.389	ppbv	99
16) 1,3-Butadiene	1.612	39	60853	8.285	ppbv	99
17) tert-Butyl alcohol	2.043	59	166457	8.663	ppbv	99
18) 1,1-Dichloroethene	2.036	96	56397	9.087	ppbv	94
19) Isopropyl Alcohol	1.887	45	78832	8.146	ppbv	98
20) Methylene Chloride	2.065	84	47793	7.041	ppbv	90
21) Allyl Chloride	2.098	41	102514	8.956	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	63932	8.904	ppbv	95
23) Vinyl Acetate	2.467	43	198083	8.891	ppbv #	97
24) 1,1-Dichloroethane	2.412	63	127660	8.903	ppbv	99
25) Ethyl Acetate	2.839	43	362325	9.240	ppbv	99
26) Hexane	2.829	57	167364	9.246	ppbv	97
27) Carbon Disulfide	2.153	76	155729	8.841	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	82126	8.898	ppbv	92
29) Chloroform	2.855	83	242320	9.377	ppbv	99
30) Cyclohexane	3.865	84	147417	9.289	ppbv	99
31) cis-1,2-Dichloroethene	2.726	61	166268	9.196	ppbv	99
32) 1,1,1-Trichloroethane	3.373	97	252813	9.256	ppbv	99
34) 2-Butanone	2.561	43	230961	9.135	ppbv	100
35) Carbon Tetrachloride	3.771	117	244671	9.478	ppbv	95
36) Benzene	3.664	78	343952	9.592	ppbv	98
37) 1,2-Dichloroethane	3.224	62	187160	9.991	ppbv	100
38) Trichloroethene	4.558	130	150693	9.202	ppbv	96
39) 1,2-Dichloropropane	4.324	63	123566	9.436	ppbv	97
40) 1,4-Dioxane	4.590	88	55292	8.879	ppbv #	93
41) Tetrahydrofuran	3.059	42	132108	9.372	ppbv	99
42) Bromodichloromethane	4.499	83	270154	9.678	ppbv	99
43) Methyl Methacrylate	4.888	69	136329	9.229	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	565415	9.290	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	160784	9.645	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:16:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	199988m	9.628	ppbv	
47) 1,1,2-Trichloroethane	6.597	97	132548	9.553	ppbv	99
48) Dibromochloromethane	7.399	129	217970	9.708	ppbv	100
49) Bromoform	9.493	173	174914	9.446	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	322264	9.430	ppbv	100
51) 2-Hexanone	7.445	43	263321	9.791	ppbv #	98
52) Tetrachloroethene	8.234	164	110828	8.544	ppbv	89
53) Toluene	6.946	91	398138	9.340	ppbv	100
54) 1,2-Dibromoethane	7.665	107	193340	9.535	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.937	131	160225	9.291	ppbv	99
57) Chlorobenzene	8.933	112	297375	9.378	ppbv	97
58) Ethyl Benzene	9.364	91	554015	9.414	ppbv	100
59) m/p-Xylene	9.561	91	865106m	18.754	ppbv	
60) o-Xylene	9.972	91	428721	9.239	ppbv	99
61) Styrene	9.879	104	203858	9.377	ppbv	100
62) Isopropylbenzene	10.549	105	624287	9.206	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	225237	8.826	ppbv	100
64) n-propylbenzene	10.998	120	158234	9.145	ppbv	97
65) tert-Butylbenzene	11.539	119	534795	8.946	ppbv	98
66) Benzyl Chloride	11.623	91	68533	9.031	ppbv	99
67) sec-Butylbenzene	11.775	105	762602	9.088	ppbv	100
69) p-Isopropyltoluene	11.934	119	634670	8.810	ppbv	98
70) n-Butylbenzene	12.287	91	647453	9.062	ppbv	99
71) 2-Chlorotoluene	10.908	91	485171	9.214	ppbv	98
72) 4-Ethyltoluene	11.131	105	525262	9.338	ppbv	100
73) 1,3,5-Trimethylbenzene	11.212	105	435705	9.108	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	469573	8.943	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	274876	9.209	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	270976	8.976	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	255347	8.736	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	186318	7.778	ppbv	97
79) Naphthalene	13.520	128	441940	9.284	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	145644	8.188	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	215715	9.016	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	92	0.00
2 T	Dichlorodifluoromethane	1.466	1.334	9.0	91	0.00
3	Chlorodifluoromethane	1.620	1.511	6.7	92	0.00
4	Chloromethane	0.591	0.520	12.0	90	0.00
5 T	Vinyl Chloride	0.582	0.479	17.7	88	0.00
6 T	Bromomethane	0.233	0.205	12.0	93	0.00
7	Chloroethane	0.227	0.190	16.3	87	0.00
8 T	Dichlorotetrafluoroethane	1.199	1.109	7.5	91	0.00
9 T	Propene	0.700	0.624	10.9	88	0.00
10 T	Heptane	1.874	1.685	10.1	90	0.00
11 T	Trichlorofluoromethane	1.446	1.259	12.9	91	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.152	1.017	11.7	89	0.00
13	Ethanol	0.064	0.049#	23.4	97	0.00
14 T	Bromoethene	0.417	0.380	8.9	92	0.00
15 T	Acetone	1.323	0.977	26.2	95	0.00
16 T	1,3-Butadiene	0.600	0.497	17.2	91	0.00
17	tert-Butyl alcohol	1.569	1.359	13.4	91	0.00
18 T	1,1-Dichloroethene	0.507	0.460	9.3	90	0.00
19 T	Isopropyl Alcohol	0.790	0.644	18.5	91	0.00
20 T	Methylene Chloride	0.554	0.390	29.6	87	0.00
21 T	Allyl Chloride	0.935	0.837	10.5	91	0.00
22 T	trans-1,2-Dichloroethene	0.586	0.522	10.9	89	0.00
23 T	Vinyl Acetate	1.819	1.617	11.1	89	0.00
24 T	1,1-Dichloroethane	1.171	1.042	11.0	92	0.00
25 T	Ethyl Acetate	3.202	2.958	7.6	93	0.00
26 T	Hexane	1.478	1.366	7.6	90	0.00
27 T	Carbon Disulfide	1.438	1.271	11.6	89	0.00
28 T	Methyl tert-Butyl Ether	0.754	0.670	11.1	93	0.00
29 T	Chloroform	2.110	1.978	6.3	94	0.00
30 T	Cyclohexane	1.296	1.204	7.1	91	0.00
31 T	cis-1,2-Dichloroethene	1.476	1.357	8.1	93	0.00
32 T	1,1,1-Trichloroethane	2.230	2.064	7.4	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.675	0.617	8.6	92	0.00
35 T	Carbon Tetrachloride	0.689	0.653	5.2	93	0.00
36 T	Benzene	0.958	0.919	4.1	91	0.00
37 T	1,2-Dichloroethane	0.500	0.500	0.0	94	0.00
38 T	Trichloroethene	0.437	0.402	8.0	91	0.00
39 T	1,2-Dichloropropane	0.350	0.330	5.7	92	0.00
40 T	1,4-Dioxane	0.166	0.148	10.8	90	0.00
41 T	Tetrahydrofuran	0.376	0.353	6.1	90	0.00
42 T	Bromodichloromethane	0.745	0.721	3.2	92	0.00
43	Methyl Methacrylate	0.394	0.364	7.6	90	0.00
44 T	2,2,4-Trimethylpentane	1.625	1.510	7.1	90	0.00
45 T	t-1,3-Dichloropropene	0.445	0.429	3.6	91	0.00
46 T	cis-1,3-Dichloropropene	0.555	0.534	3.8	90	0.00
47 T	1,1,2-Trichloroethane	0.371	0.354	4.6	94	0.00
48 T	Dibromochloromethane	0.600	0.582	3.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	0.495	0.467	5.7	86	0.00
50 T	4-Methyl-2-Pentanone	0.913	0.861	5.7	88	0.00
51 T	2-Hexanone	0.718	0.703	2.1	91	0.00
52 T	Tetrachloroethene	0.346	0.296	14.5	86	0.00
53 T	Toluene	1.138	1.063	6.6	90	0.00
54 T	1,2-Dibromoethane	0.542	0.516	4.8	92	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.517	0.480	7.2	91	0.00
57 T	Chlorobenzene	0.951	0.892	6.2	91	0.00
58 T	Ethyl Benzene	1.765	1.661	5.9	91	0.00
59 T	m/p-Xylene	1.383	1.297	6.2	91	0.02
60 T	o-Xylene	1.391	1.286	7.5	91	0.00
61 T	Styrene	0.652	0.611	6.3	90	0.00
62	Isopropylbenzene	2.033	1.872	7.9	91	0.00
63 T	1,1,2,2-Tetrachloroethane	0.765	0.675	11.8	90	0.00
64	n-propylbenzene	0.519	0.474	8.7	90	0.00
65	tert-Butylbenzene	1.793	1.604	10.5	90	0.00
66 T	Benzyl Chloride	0.228	0.206	9.6	81	0.00
67	sec-Butylbenzene	2.516	2.287	9.1	92	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.756	-0.8	90	0.00
69	p-Isopropyltoluene	2.160	1.903	11.9	90	0.00
70	n-Butylbenzene	2.142	1.941	9.4	91	0.00
71	2-Chlorotoluene	1.579	1.455	7.9	92	0.00
72 T	4-Ethyltoluene	1.687	1.575	6.6	91	0.00
73 T	1,3,5-Trimethylbenzene	1.434	1.306	8.9	91	0.00
74 T	1,2,4-Trimethylbenzene	1.574	1.408	10.5	91	0.00
75 T	1,3-Dichlorobenzene	0.895	0.824	7.9	89	0.00
76 T	1,4-Dichlorobenzene	0.905	0.813	10.2	88	0.00
77 T	1,2-Dichlorobenzene	0.876	0.766	12.6	88	0.00
78 T	Hexachloro-1,3-Butadiene	0.718	0.559	22.1	88	0.00
79 T	Naphthalene	1.427	1.325	7.1	91	0.00
80 T	Naphthalene,2-methyl-	0.533	0.437	18.0	82	0.00
81 T	1,2,4-Trichlorobenzene	0.717	0.647	9.8	88	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042850.D
 Acq On : 13 Aug 2025 13:46
 Operator : SY/MD
 Sample : VL0813ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABL01

Quant Time: Aug 14 02:17:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	119946	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	373094	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	324853	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	243776	10.006	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.100%

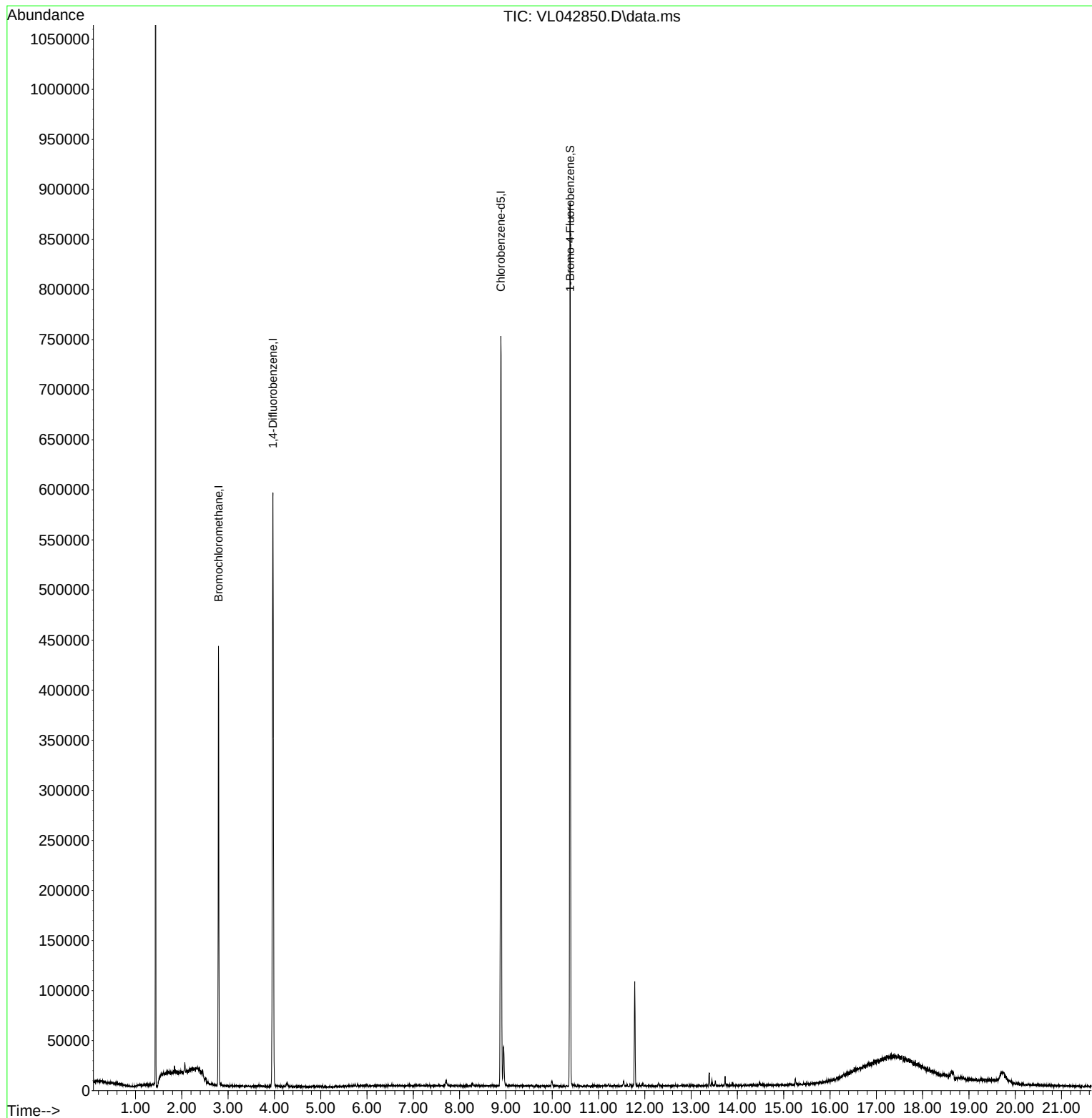
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042850.D
Acq On : 13 Aug 2025 13:46
Operator : SY/MD
Sample : VL0813ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0813ABL01

Quant Time: Aug 14 02:17:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042851.D
 Acq On : 13 Aug 2025 14:32
 Operator : SY/MD
 Sample : VL0813ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABS01

Quant Time: Aug 14 02:17:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

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

Internal Standards						
1) Bromochloromethane	2.793	49	116881	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	368200	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	322291	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	244955	10.134	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	159958	9.338	ppbv	100
3) Chlorodifluoromethane	1.479	51	177225	9.360	ppbv	100
4) Chloromethane	1.534	50	62240	9.004	ppbv	99
5) Vinyl Chloride	1.583	62	59335	8.716	ppbv	99
6) Bromomethane	1.670	94	23152	8.505	ppbv	97
7) Chloroethane	1.706	64	23657	8.898	ppbv	91
8) Dichlorotetrafluoroethane	1.557	85	132763	9.471	ppbv	95
9) Propene	1.486	41	71030	8.686	ppbv	97
10) Heptane	4.991	43	199706	9.118	ppbv	98
11) Trichlorofluoromethane	1.881	101	153519	9.084	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	123905	9.198	ppbv	97
13) Ethanol	1.725	45	5608	7.501	ppbv	100
14) Bromoethene	1.784	108	45076	9.244	ppbv	98
15) Acetone	1.839	43	115155	7.448	ppbv	100
16) 1,3-Butadiene	1.612	39	58958	8.412	ppbv	99
17) tert-Butyl alcohol	2.043	59	158939	8.668	ppbv	99
18) 1,1-Dichloroethene	2.036	96	55494	9.371	ppbv	97
19) Isopropyl Alcohol	1.890	45	78860	8.540	ppbv	100
20) Methylene Chloride	2.065	84	48184	7.439	ppbv	90
21) Allyl Chloride	2.101	41	96710	8.854	ppbv	95
22) trans-1,2-Dichloroethene	2.347	96	62464	9.117	ppbv	94
23) Vinyl Acetate	2.467	43	206801	9.728	ppbv	99
24) 1,1-Dichloroethane	2.415	63	123052	8.993	ppbv	98
25) Ethyl Acetate	2.842	43	344281	9.200	ppbv	99
26) Hexane	2.832	57	159005	9.206	ppbv	97
27) Carbon Disulfide	2.156	76	153403	9.126	ppbv #	91
28) Methyl tert-Butyl Ether	2.444	73	84816	9.630	ppbv	93
29) Chloroform	2.855	83	234067	9.492	ppbv	99
30) Cyclohexane	3.865	84	140375	9.270	ppbv	99
31) cis-1,2-Dichloroethene	2.725	61	158712	9.199	ppbv	98
32) 1,1,1-Trichloroethane	3.376	97	245800	9.431	ppbv	100
34) 2-Butanone	2.560	43	224149	9.016	ppbv	100
35) Carbon Tetrachloride	3.771	117	235598	9.281	ppbv	96
36) Benzene	3.664	78	330026	9.360	ppbv	99
37) 1,2-Dichloroethane	3.227	62	181878	9.874	ppbv	98
38) Trichloroethene	4.557	130	144018	8.944	ppbv	95
39) 1,2-Dichloropropane	4.324	63	119442	9.275	ppbv	97
40) 1,4-Dioxane	4.593	88	54081m	8.832	ppbv	
41) Tetrahydrofuran	3.059	42	127578	9.204	ppbv	98
42) Bromodichloromethane	4.502	83	261380	9.522	ppbv	98
43) Methyl Methacrylate	4.894	69	131335	9.042	ppbv	98
44) 2,2,4-Trimethylpentane	4.648	57	540935	9.039	ppbv	100
45) t-1,3-Dichloropropene	6.431	75	152588	9.309	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042851.D
 Acq On : 13 Aug 2025 14:32
 Operator : SY/MD
 Sample : VL0813ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:17:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	189646	9.285	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	127667	9.357	ppbv	97
48) Dibromochloromethane	7.402	129	207804	9.412	ppbv	100
49) Bromoform	9.493	173	168015	9.228	ppbv	100
50) 4-Methyl-2-Pentanone	5.768	43	312046	9.286	ppbv	100
51) 2-Hexanone	7.448	43	248690	9.404	ppbv	98
52) Tetrachloroethene	8.238	164	107577	8.434	ppbv	94
53) Toluene	6.949	91	386291	9.216	ppbv	100
54) 1,2-Dibromoethane	7.665	107	184932	9.275	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.937	131	156352	9.381	ppbv	98
57) Chlorobenzene	8.933	112	285789	9.326	ppbv	98
58) Ethyl Benzene	9.367	91	534013	9.389	ppbv	99
59) m/p-Xylene	9.565	91	837335m	18.783	ppbv	
60) o-Xylene	9.976	91	417423	9.308	ppbv	100
61) Styrene	9.882	104	197790	9.414	ppbv	99
62) Isopropylbenzene	10.548	105	607606	9.271	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	221716	8.990	ppbv	100
64) n-propylbenzene	10.998	120	153914	9.205	ppbv	98
65) tert-Butylbenzene	11.539	119	518992	8.983	ppbv	98
66) Benzyl Chloride	11.623	91	62299	8.494	ppbv	99
67) sec-Butylbenzene	11.775	105	741280	9.141	ppbv	99
69) p-Isopropyltoluene	11.934	119	612316	8.795	ppbv	98
70) n-Butylbenzene	12.290	91	629840	9.122	ppbv	98
71) 2-Chlorotoluene	10.911	91	467569	9.188	ppbv	98
72) 4-Ethyltoluene	11.134	105	505391	9.297	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	425759	9.210	ppbv	97
74) 1,2,4-Trimethylbenzene	11.545	105	456933	9.005	ppbv	97
75) 1,3-Dichlorobenzene	11.617	146	259541	8.997	ppbv	98
76) 1,4-Dichlorobenzene	11.681	146	261302	8.957	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	250432	8.866	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	173363	7.488	ppbv	98
79) Naphthalene	13.520	128	410796	8.930	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	145644	8.473	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	204023	8.824	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042854.D
 Acq On : 13 Aug 2025 16:27
 Operator : SY/MD
 Sample : QC080725 CAN10282
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC080725 CAN10282

Quant Time: Aug 14 02:18:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	127975	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	396862	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	338731	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	257543	10.138	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%

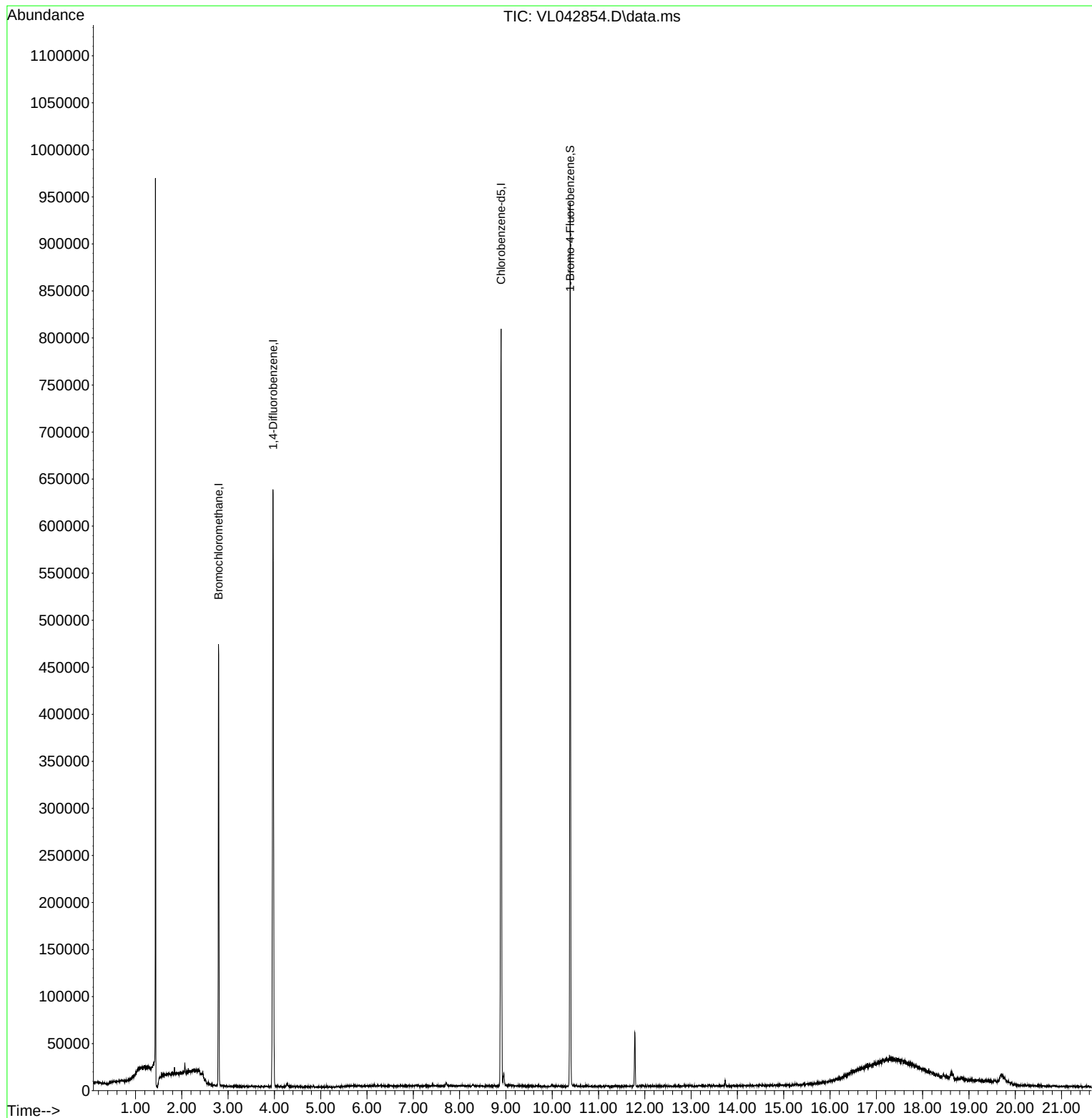
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042854.D
Acq On : 13 Aug 2025 16:27
Operator : SY/MD
Sample : QC080725 CAN10282
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC080725 CAN10282

Quant Time: Aug 14 02:18:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration



Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM		
Supervise By	Maresh Dadoda	Supervise On	8/18/2025 8:43:31 AM		
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2655			
Initial Calibration Stds		AP2650,AP2652,AP2653			
CCC		AP2650			
Internal Standard/PEM		AP2655			
ICV/I.BLK		AP2654			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042841.D	13 Aug 2025 07:45	SY/MD	Ok
2	VSTDICCC010	VL042842.D	13 Aug 2025 08:30	SY/MD	Ok,M
3	VSTDICCC002	VL042843.D	13 Aug 2025 09:06	SY/MD	Ok,M
4	VSTDICCC001	VL042844.D	13 Aug 2025 09:41	SY/MD	Ok,M
5	VSTDICCC0.5	VL042845.D	13 Aug 2025 10:17	SY/MD	Ok,M
6	VSTDICCC0.1	VL042846.D	13 Aug 2025 10:53	SY/MD	Ok,M
7	VSTDICCC0.03	VL042847.D	13 Aug 2025 11:30	SY/MD	Ok,M
8	VSTDICCC015	VL042848.D	13 Aug 2025 12:06	SY/MD	Ok,M
9	VSTDICV010	VL042849.D	13 Aug 2025 12:56	SY/MD	Ok,M
10	VL0813ABL01	VL042850.D	13 Aug 2025 13:46	SY/MD	Ok
11	VL0813ABS01	VL042851.D	13 Aug 2025 14:32	SY/MD	Ok,M
12	Q2727-01DL2	VL042852.D	13 Aug 2025 15:10	SY/MD	Ok
13	Q2126-14 0.1 PPB LOQ	VL042853.D	13 Aug 2025 15:49	SY/MD	Ok,M
14	QC080725 CAN10282	VL042854.D	13 Aug 2025 16:27	SY/MD	Ok
15	Q2794-01	VL042855.D	13 Aug 2025 17:05	SY/MD	Dilution
16	Q2794-01DUP	VL042856.D	13 Aug 2025 17:43	SY/MD	Ok,M
17	Q2794-01DL	VL042857.D	13 Aug 2025 18:21	SY/MD	Ok,M
18	Q2794-02	VL042858.D	13 Aug 2025 18:58	SY/MD	Ok,M
19	Q2794-02DL	VL042859.D	13 Aug 2025 19:35	SY/MD	Not Ok
20	QC081125 CAN 10280	VL042860.D	13 Aug 2025 20:12	SY/MD	Ok
21	Q2834-01	VL042861.D	13 Aug 2025 20:49	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM		
Supervise By	Maresh Dadoda	Supervise On	8/18/2025 8:43:31 AM		
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2655			
Initial Calibration Stds		AP2650,AP2652,AP2653			
CCC		AP2650			
Internal Standard/PEM		AP2655			
ICV/I.BLK		AP2654			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2834-02	VL042862.D	13 Aug 2025 21:26	SY/MD	Ok,M
23	Q2834-02DL	VL042863.D	13 Aug 2025 22:02	SY/MD	Not Ok
24	VSTDCCC010	VL042864.D	13 Aug 2025 22:39	SY/MD	Ok,M

M : Manual Integration

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042950.D
 Acq On : 22 Sep 2025 09:39
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: Sep 23 02:08:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	170899	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	526679	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	486724	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	371195	10.217	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	213351	9.282	ppbv	100
3) Chlorodifluoromethane	1.473	51	269073	9.392	ppbv	100
4) Chloromethane	1.531	50	95679	9.196	ppbv	100
5) Vinyl Chloride	1.577	62	80350	8.543	ppbv	100
6) Bromomethane	1.667	94	28301	8.530	ppbv	100
7) Chloroethane	1.703	64	33446	9.158	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	178992	9.122	ppbv	100
9) Propene	1.483	41	116849	9.376	ppbv	100
10) Heptane	4.969	43	319577	9.560	ppbv	100
11) Trichlorofluoromethane	1.874	101	204850	9.243	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	164598	9.171	ppbv	100
13) Ethanol	1.719	45	9094	7.613	ppbv	100
14) Bromoethene	1.780	108	61824	9.111	ppbv	100
15) Acetone	1.832	43	169676	7.623	ppbv	100
16) 1,3-Butadiene	1.606	39	88812	8.459	ppbv	100
17) tert-Butyl alcohol	2.036	59	230853	9.456	ppbv	100
18) 1,1-Dichloroethene	2.030	96	76184	9.170	ppbv	100
19) Isopropyl Alcohol	1.884	45	122753	9.174	ppbv	100
20) Methylene Chloride	2.059	84	66314	9.992	ppbv	100
21) Allyl Chloride	2.094	41	146473	9.449	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	86580	9.172	ppbv	100
23) Vinyl Acetate	2.460	43	272378	8.566	ppbv	100
24) 1,1-Dichloroethane	2.405	63	169721	9.168	ppbv	100
25) Ethyl Acetate	2.829	43	538761	9.577	ppbv	100
26) Hexane	2.823	57	238896	9.316	ppbv	100
27) Carbon Disulfide	2.146	76	217259	9.446	ppbv	100
28) Methyl tert-Butyl Ether	2.434	73	108987	8.176	ppbv	100
29) Chloroform	2.845	83	315779	9.418	ppbv	100
30) Cyclohexane	3.852	84	203803	9.506	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	231907	9.654	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	325118	8.947	ppbv	100
34) 2-Butanone	2.551	43	344874	9.343	ppbv	100
35) Carbon Tetrachloride	3.755	117	321267	9.480	ppbv	100
36) Benzene	3.651	78	472855	9.561	ppbv	100
37) 1,2-Dichloroethane	3.214	62	247754	9.525	ppbv	100
38) Trichloroethene	4.541	130	224516	9.134	ppbv	100
39) 1,2-Dichloropropane	4.305	63	172059	9.523	ppbv	100
40) 1,4-Dioxane	4.570	88	77889	9.283	ppbv #	100
41) Tetrahydrofuran	3.046	42	204724	9.649	ppbv	100
42) Bromodichloromethane	4.480	83	358858	9.903	ppbv	100
43) Methyl Methacrylate	4.871	69	193676	9.646	ppbv	100
44) 2,2,4-Trimethylpentane	4.632	57	823031	9.631	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	215233	9.969	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042950.D
 Acq On : 22 Sep 2025 09:39
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

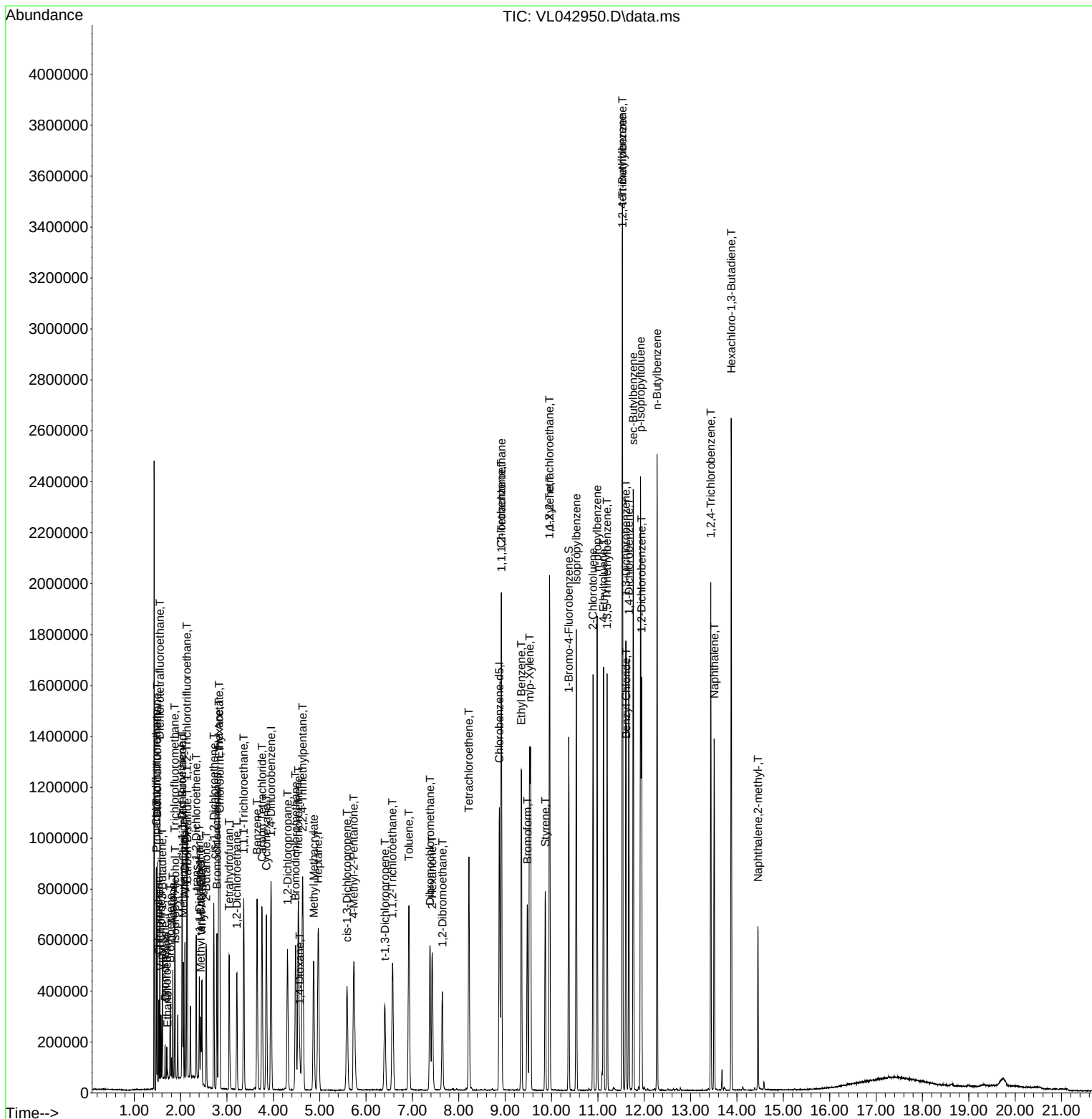
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

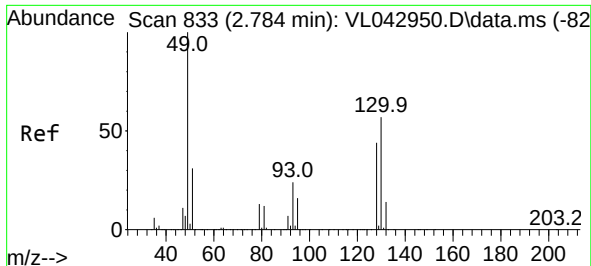
Quant Time: Sep 23 02:08:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	275210	10.006	ppbv	100
47) 1,1,2-Trichloroethane	6.571	97	181329	9.498	ppbv	100
48) Dibromochloromethane	7.383	129	300497	9.845	ppbv	100
49) Bromoform	9.480	173	267814	10.087	ppbv	100
50) 4-Methyl-2-Pentanone	5.736	43	492068	9.920	ppbv	100
51) 2-Hexanone	7.428	43	395744	10.036	ppbv #	100
52) Tetrachloroethene	8.218	164	171294	8.951	ppbv	100
53) Toluene	6.923	91	567779	9.699	ppbv	100
54) 1,2-Dibromoethane	7.645	107	257904	9.605	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.921	131	223066	9.575	ppbv	100
57) Chlorobenzene	8.917	112	415238	9.345	ppbv	100
58) Ethyl Benzene	9.348	91	764249	9.562	ppbv	100
59) m/p-Xylene	9.526	91	600237	9.519	ppbv #	100
60) o-Xylene	9.959	91	594329	9.437	ppbv	100
61) Styrene	9.866	104	293111	9.840	ppbv	100
62) Isopropylbenzene	10.536	105	877401	9.347	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.956	83	296678	8.963	ppbv	100
64) n-propylbenzene	10.985	120	230432	9.394	ppbv	100
65) tert-Butylbenzene	11.526	119	757958	9.078	ppbv	100
66) Benzyl Chloride	11.610	91	94982	10.842	ppbv	100
67) sec-Butylbenzene	11.762	105	1066409	9.166	ppbv	100
69) p-Isopropyltoluene	11.921	119	903376	9.192	ppbv	100
70) n-Butylbenzene	12.277	91	915624	9.543	ppbv	100
71) 2-Chlorotoluene	10.895	91	668239	9.428	ppbv	100
72) 4-Ethyltoluene	11.121	105	741298	9.398	ppbv	100
73) 1,3,5-Trimethylbenzene	11.199	105	614632	9.608	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	656535	9.294	ppbv	100
75) 1,3-Dichlorobenzene	11.604	146	411473	9.392	ppbv	100
76) 1,4-Dichlorobenzene	11.668	146	411464	9.456	ppbv	100
77) 1,2-Dichlorobenzene	11.944	146	387219	9.289	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	280080	8.591	ppbv	100
79) Naphthalene	13.510	128	668171	10.696	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	195695	10.142	ppbv	100
81) 1,2,4-Trichlorobenzene	13.436	180	349393	10.461	ppbv	100

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

Quant Time: Sep 23 02:08:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

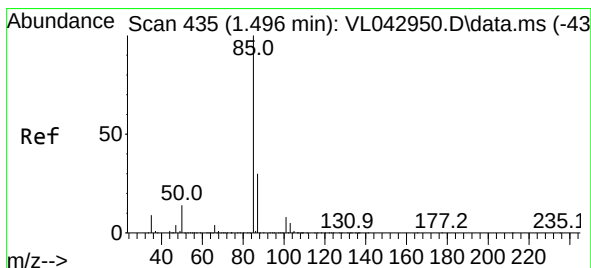
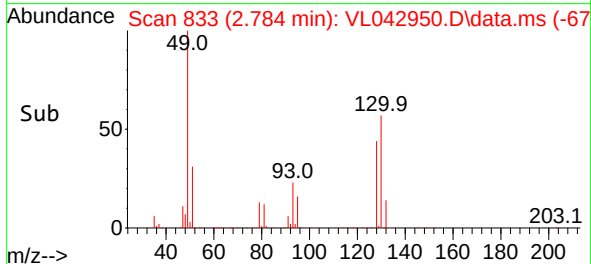
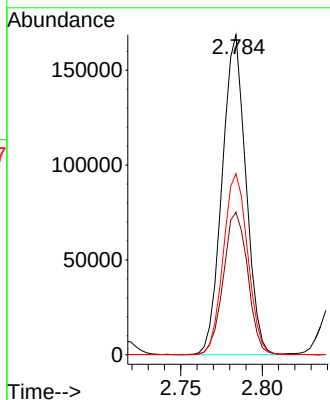
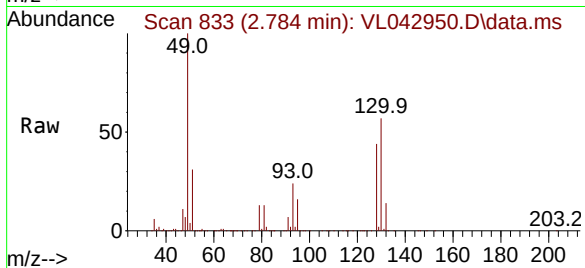




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

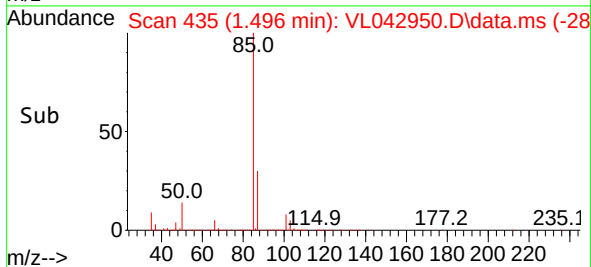
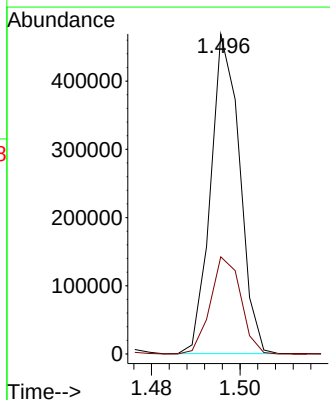
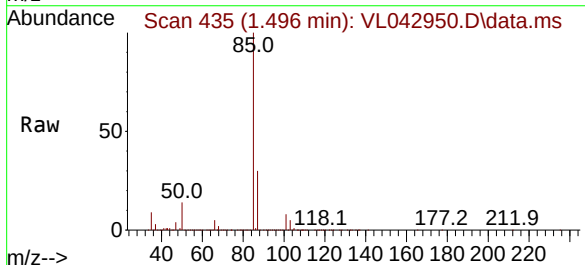
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

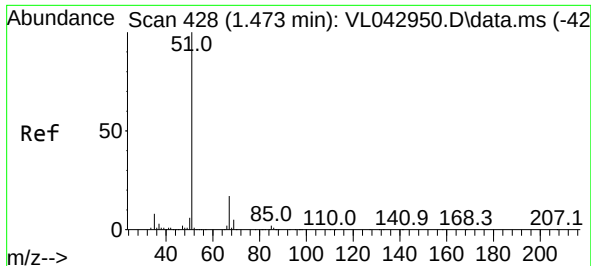
Tgt Ion: 49 Resp: 170899
Ion Ratio Lower Upper
49 100
128 45.9 22.9 68.8
130 58.2 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 9.282 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 85 Resp: 213351
Ion Ratio Lower Upper
85 100
87 30.4 24.3 36.5

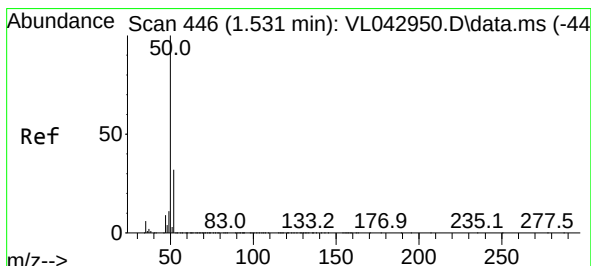
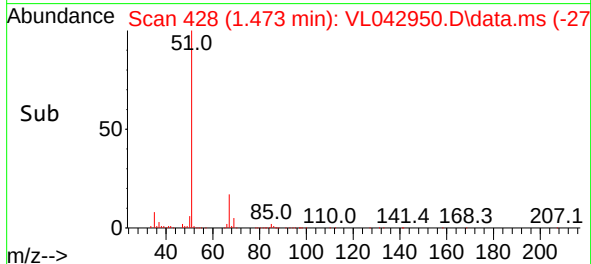
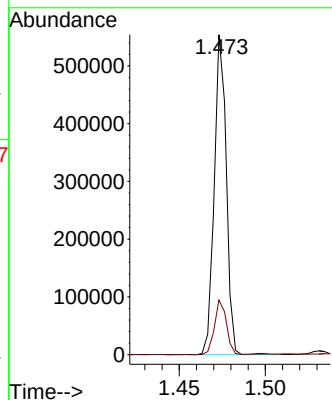
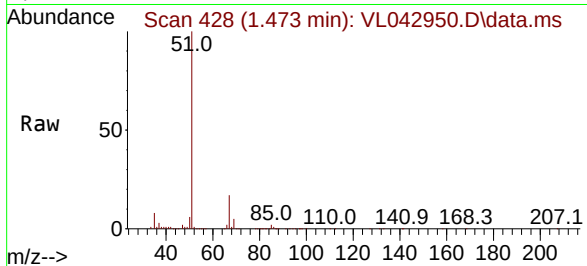




#3
Chlorodifluoromethane
Concen: 9.392 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

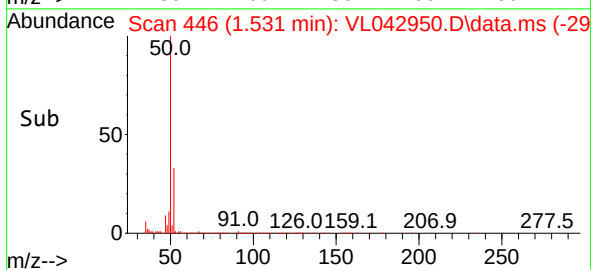
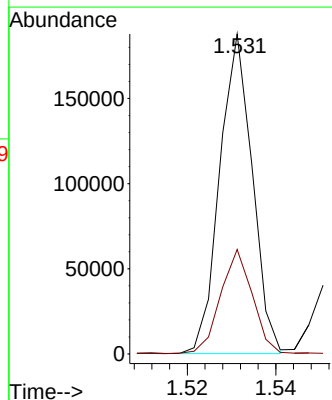
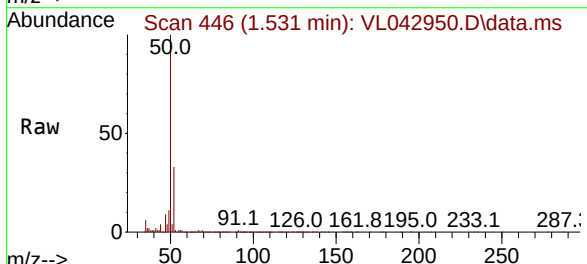
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

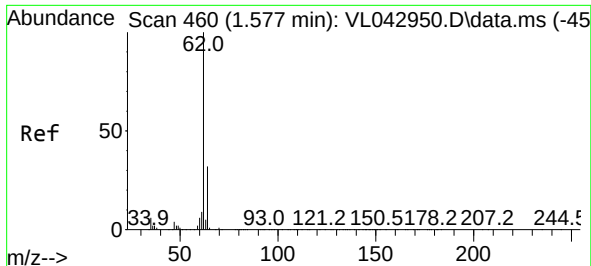
Tgt Ion: 51 Resp: 269073
Ion Ratio Lower Upper
51 100
67 17.3 13.8 20.8



#4
Chloromethane
Concen: 9.196 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 50 Resp: 95679
Ion Ratio Lower Upper
50 100
52 32.4 25.9 38.9

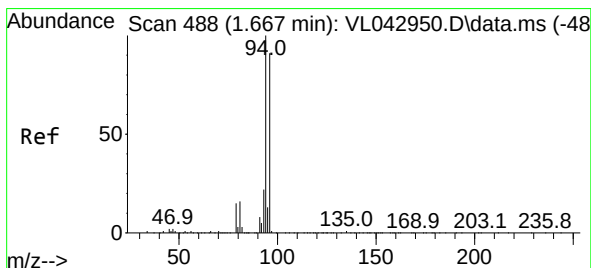
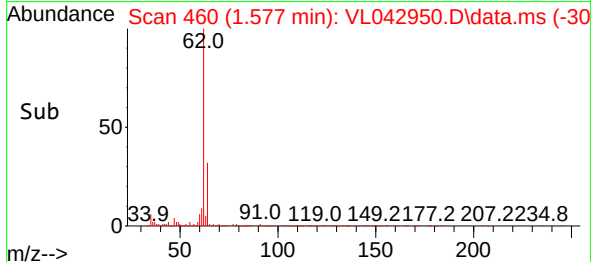
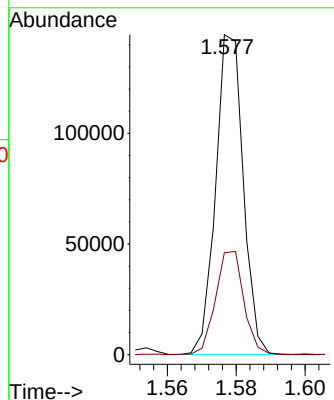
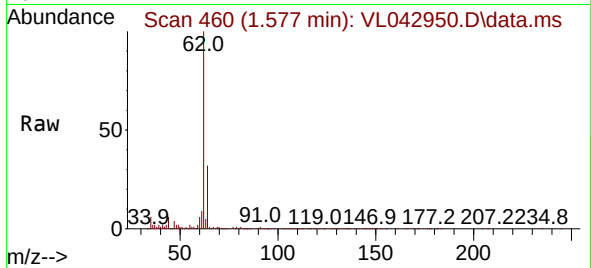




#5
 Vinyl Chloride
 Concen: 8.543 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

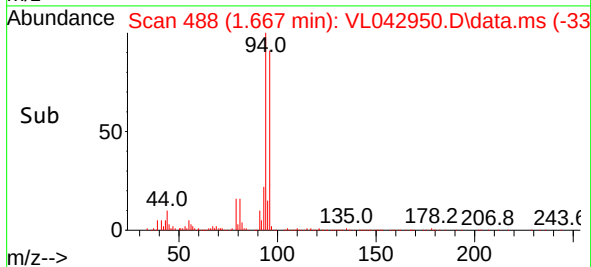
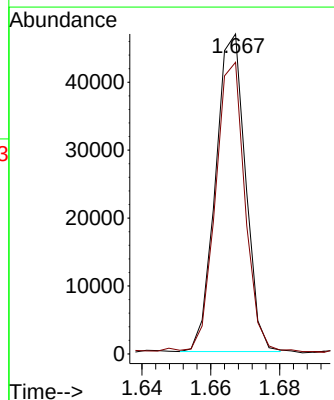
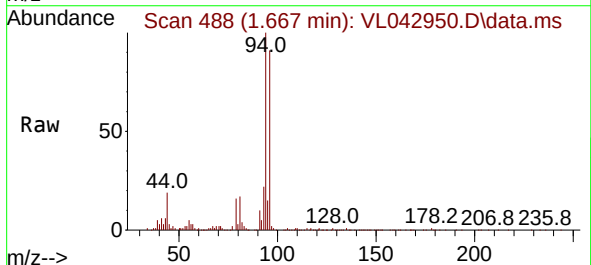
Instrument :
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 ClientSampleId :
 VSTDICCC010

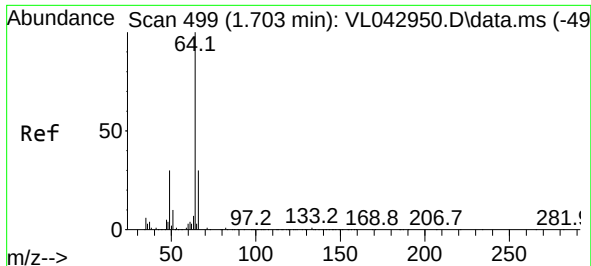
Tgt Ion: 62 Resp: 80350
 Ion Ratio Lower Upper
 62 100
 64 31.8 25.4 38.2



#6
 Bromomethane
 Concen: 8.530 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

Tgt Ion: 94 Resp: 28301
 Ion Ratio Lower Upper
 94 100
 96 90.7 72.6 108.8

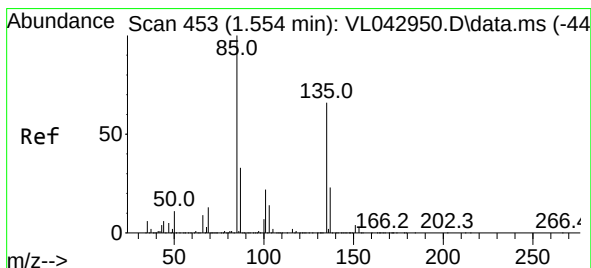
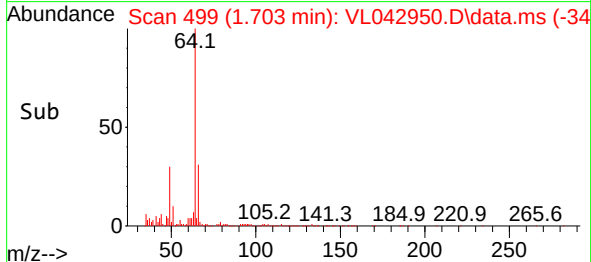
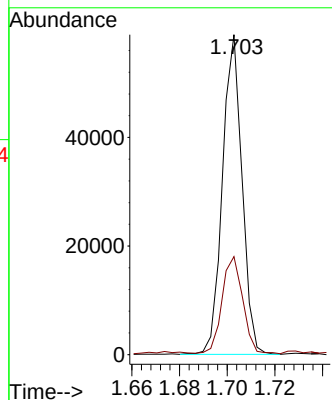
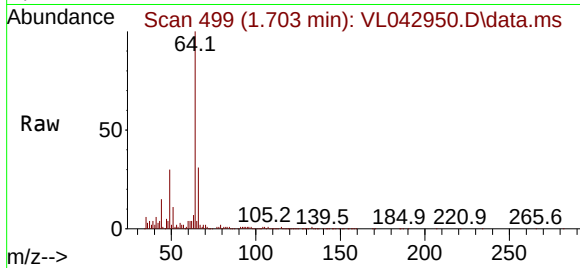




#7
Chloroethane
Concen: 9.158 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

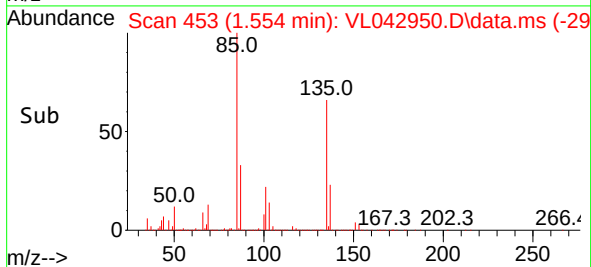
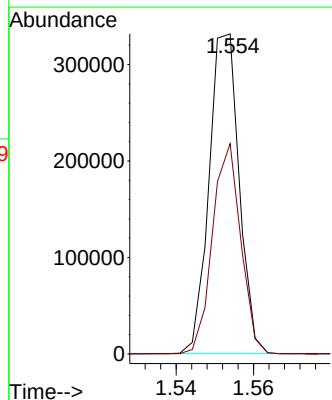
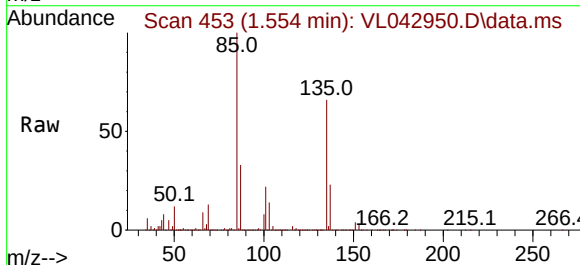
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

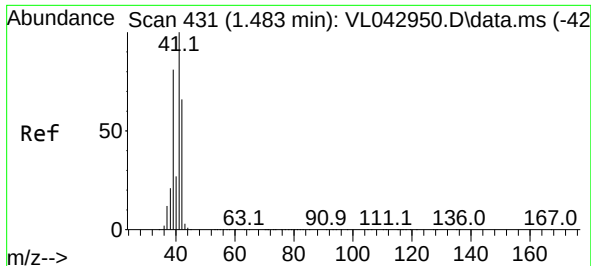
Tgt Ion: 64 Resp: 33446
Ion Ratio Lower Upper
64 100
66 30.7 24.6 36.8



#8
Dichlorotetrafluoroethane
Concen: 9.122 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 85 Resp: 178992
Ion Ratio Lower Upper
85 100
135 62.1 49.7 74.5





#9

Propene

Concen: 9.376 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_L

ClientSampleId :

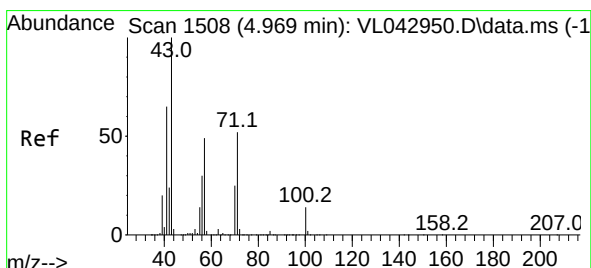
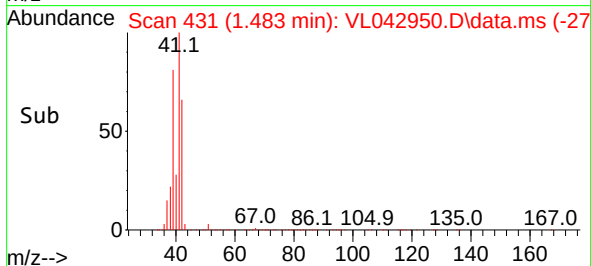
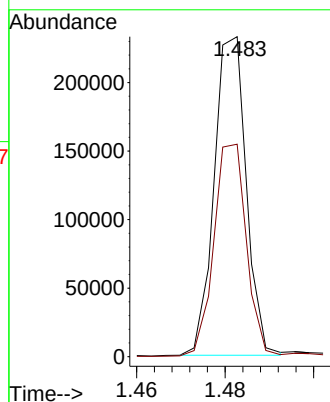
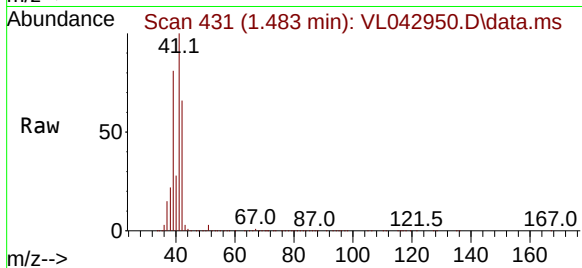
VSTDICCC010

Tgt Ion: 41 Resp: 116849

Ion Ratio Lower Upper

41 100

42 71.8 57.4 86.2



#10

Heptane

Concen: 9.560 ppbv

RT: 4.969 min Scan# 1508

Delta R.T. 0.000 min

Lab File: VL042950.D

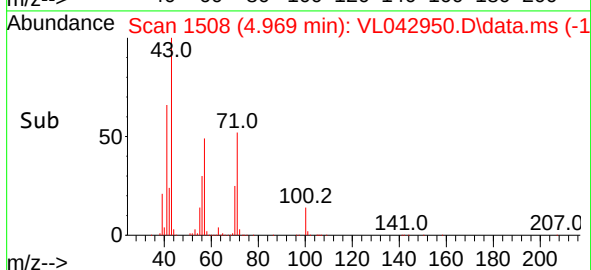
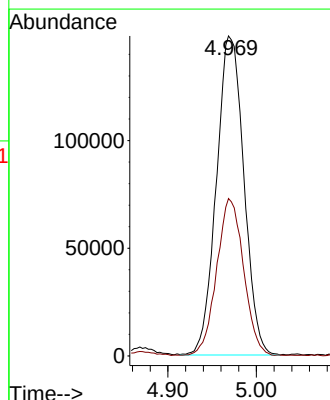
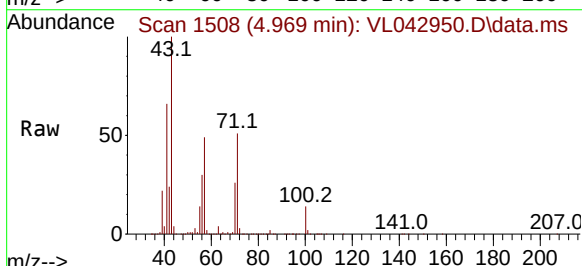
Acq: 22 Sep 2025 09:39

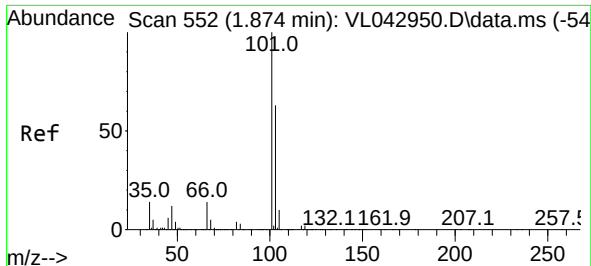
Tgt Ion: 43 Resp: 319577

Ion Ratio Lower Upper

43 100

57 48.2 38.6 57.8

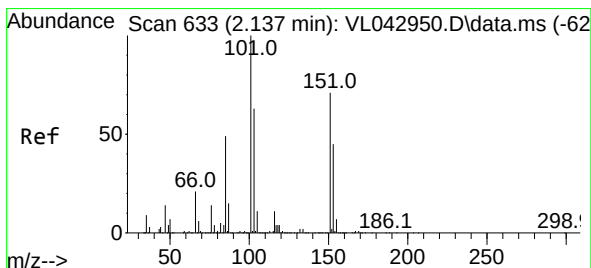
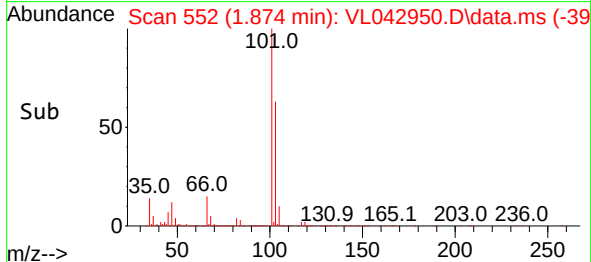
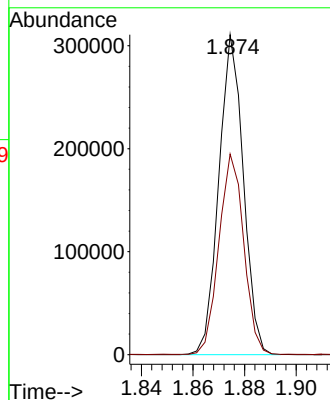
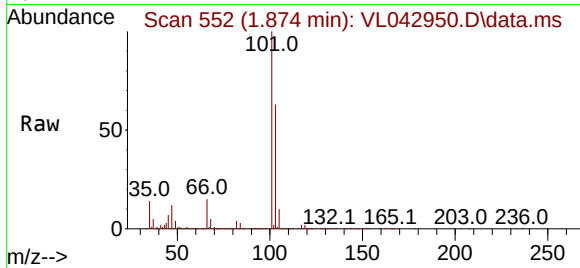




#11
Trichlorofluoromethane
Concen: 9.243 ppbv
RT: 1.874 min Scan# 552
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

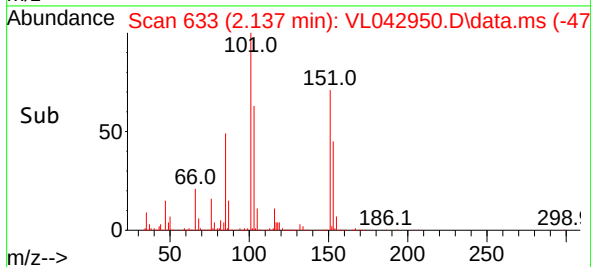
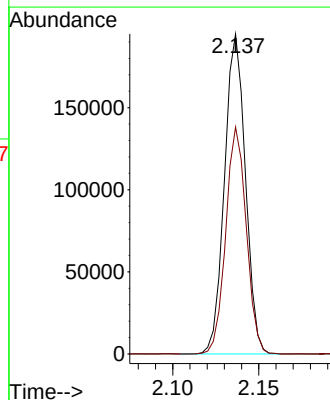
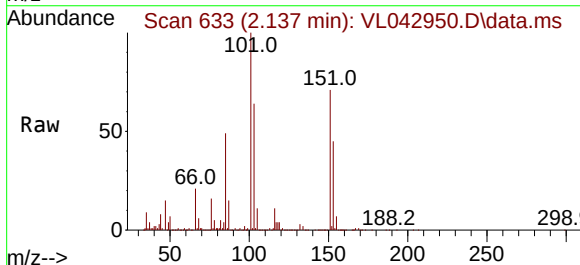
Instrument :
MSVOA_L
ClientSampleId :
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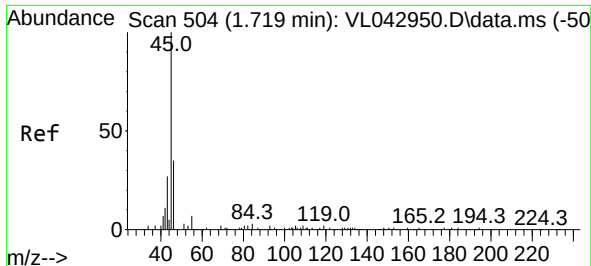
Tgt Ion:101 Resp: 204850
Ion Ratio Lower Upper
101 100
103 62.6 50.1 75.1



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.171 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion:101 Resp: 164598
Ion Ratio Lower Upper
101 100
151 69.6 55.7 83.5

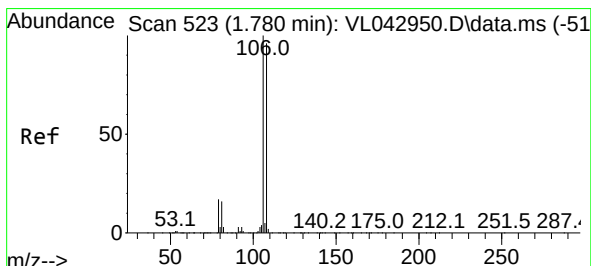
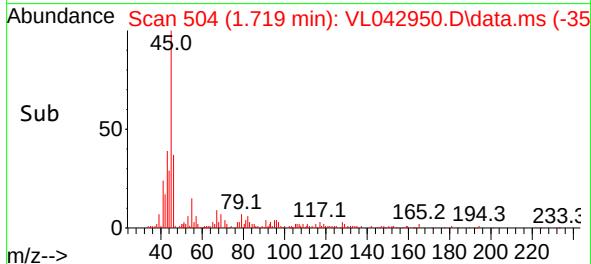
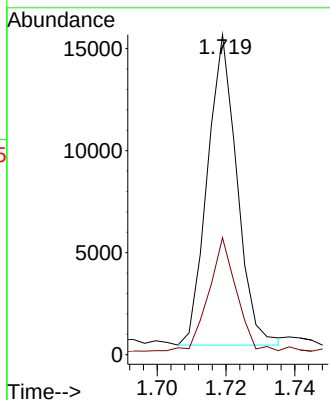
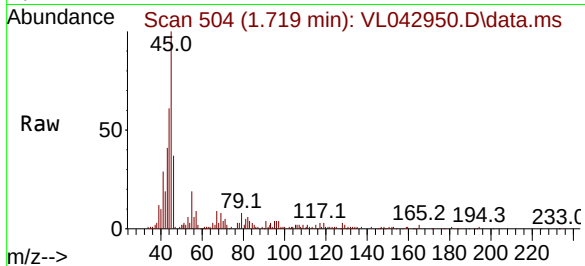




#13
Ethanol
Concen: 7.613 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

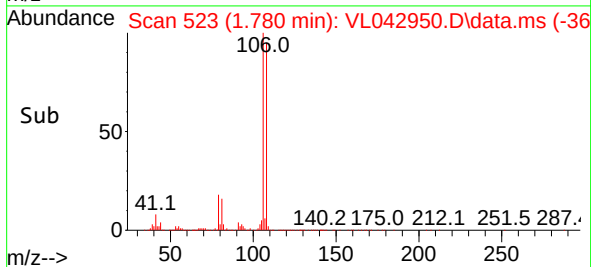
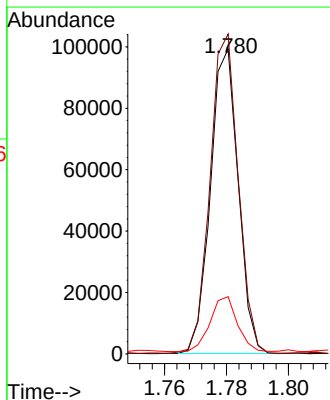
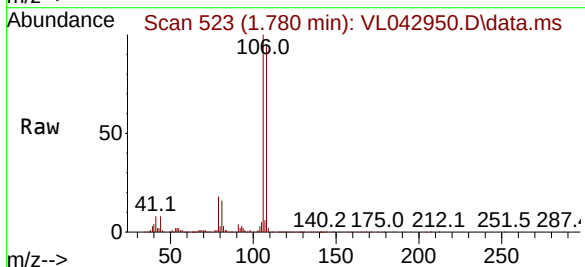
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ClientSampleId :
VSTDICCC010

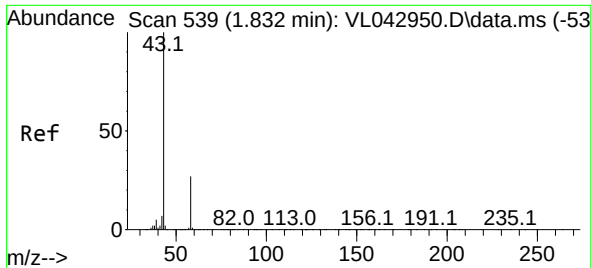
Tgt Ion: 45 Resp: 9094
Ion Ratio Lower Upper
45 100
46 40.4 16.2 64.6



#14
Bromoethene
Concen: 9.111 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 108 Resp: 61824
Ion Ratio Lower Upper
108 100
106 107.5 86.0 129.0
79 17.7 14.2 21.2





#15

Acetone

Concen: 7.623 ppbv

RT: 1.832 min Scan# 51

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_L

ClientSampleId :

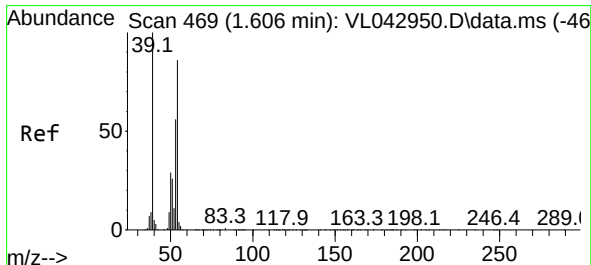
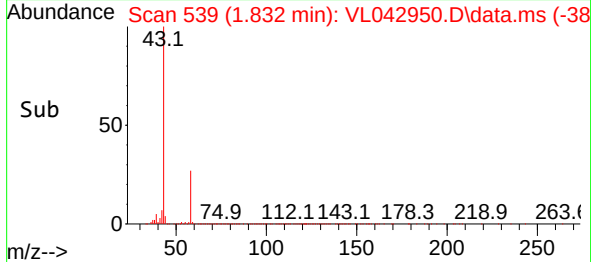
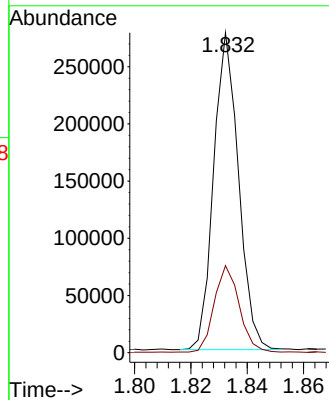
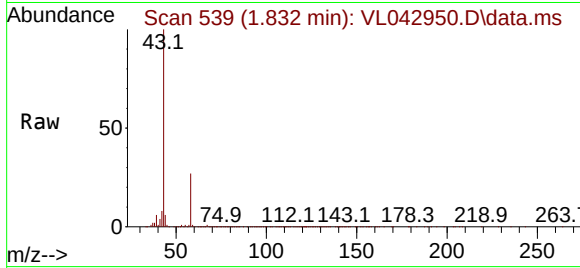
VSTDICCC010

Tgt Ion: 43 Resp: 169676

Ion Ratio Lower Upper

43 100

58 27.9 22.3 33.5



#16

1,3-Butadiene

Concen: 8.459 ppbv

RT: 1.606 min Scan# 469

Delta R.T. 0.000 min

Lab File: VL042950.D

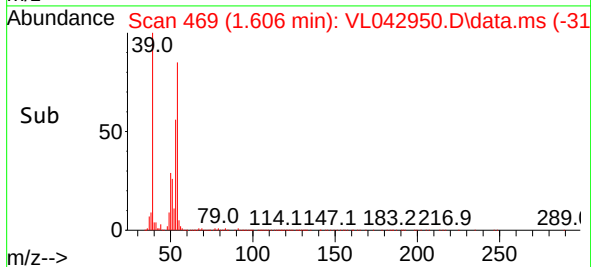
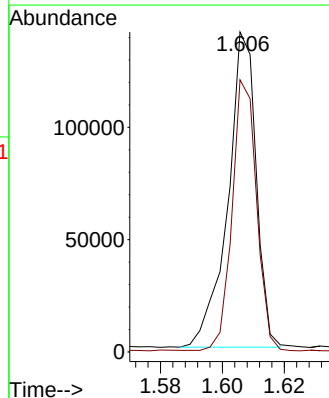
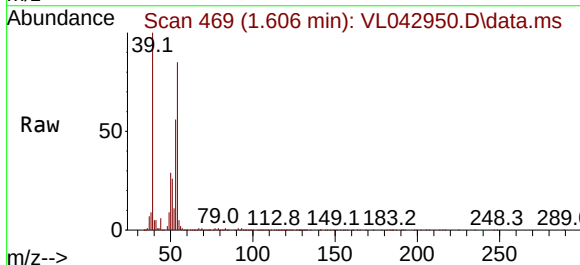
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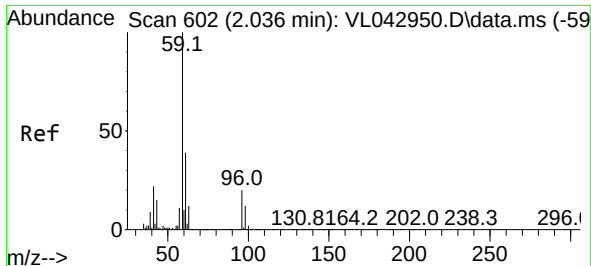
Tgt Ion: 39 Resp: 88812

Ion Ratio Lower Upper

39 100

54 76.0 60.8 91.2





#17

tert-Butyl alcohol

Concen: 9.456 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_1

ClientSampleId :

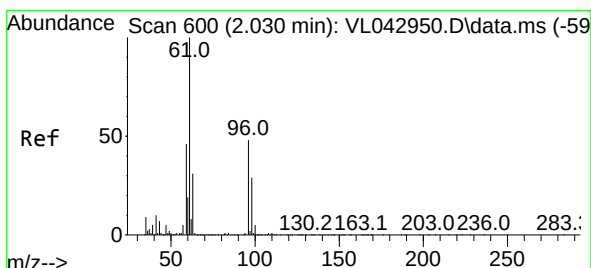
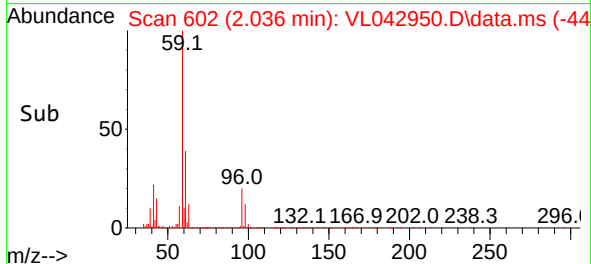
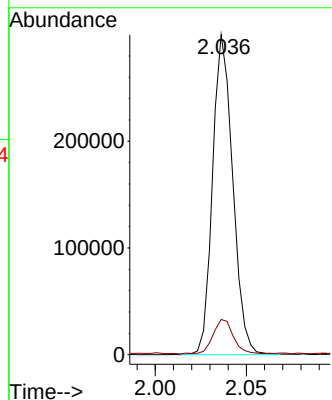
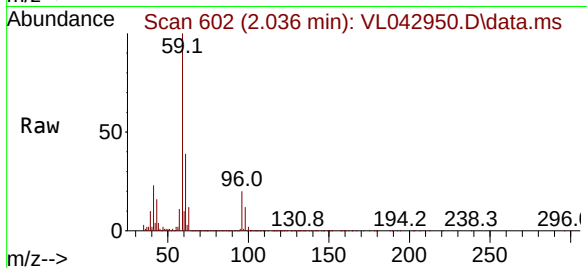
VSTDICCC010

Tgt Ion: 59 Resp: 230853

Ion Ratio Lower Upper

59 100

57 10.7 8.6 12.8



#18

1,1-Dichloroethene

Concen: 9.170 ppbv

RT: 2.030 min Scan# 600

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

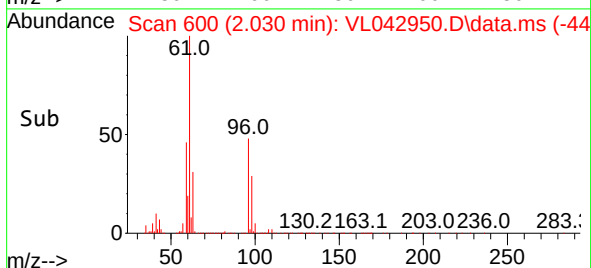
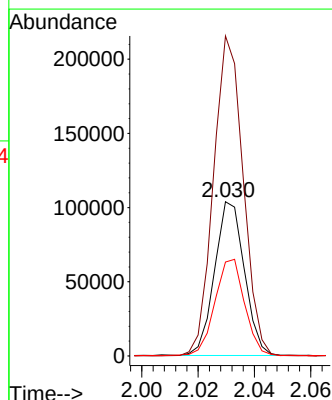
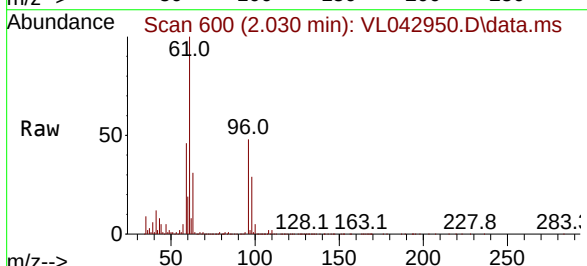
Tgt Ion: 96 Resp: 76184

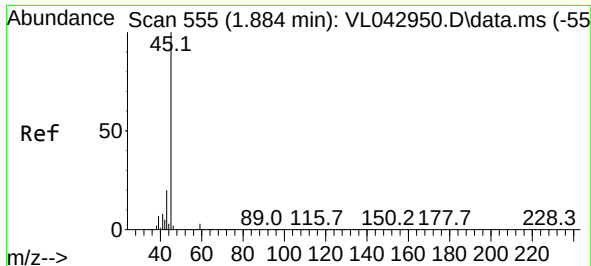
Ion Ratio Lower Upper

96 100

61 207.8 166.2 249.4

98 60.8 48.6 73.0

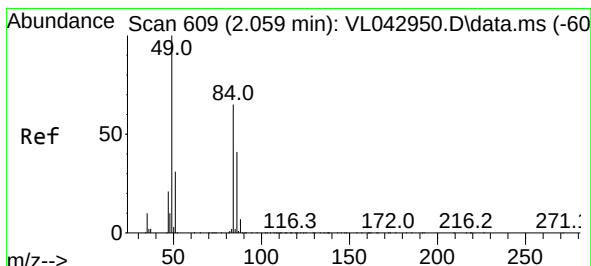
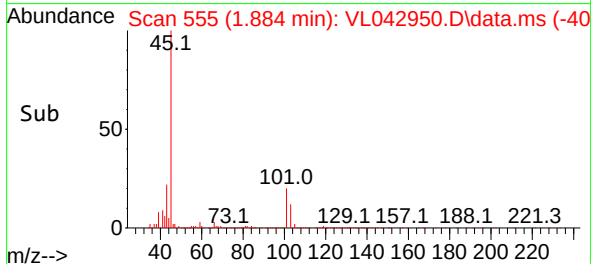
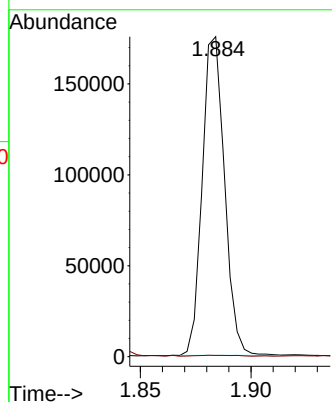
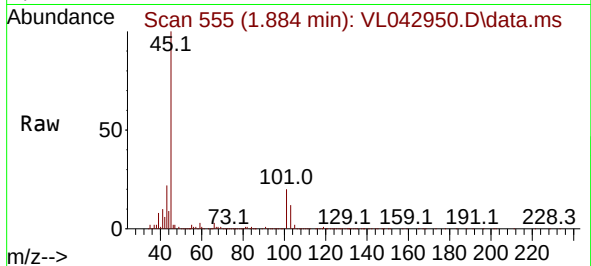




#19
Isopropyl Alcohol
Concen: 9.174 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

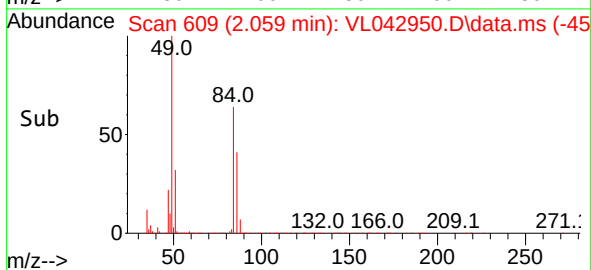
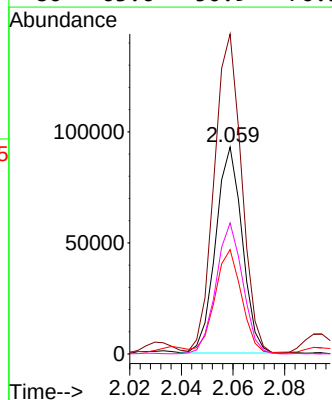
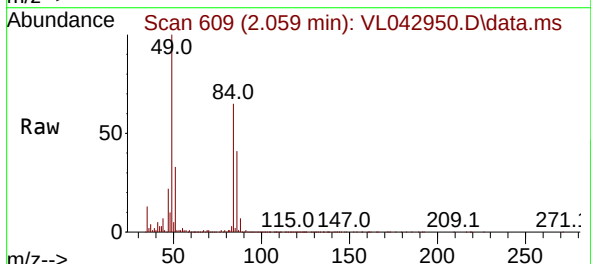
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

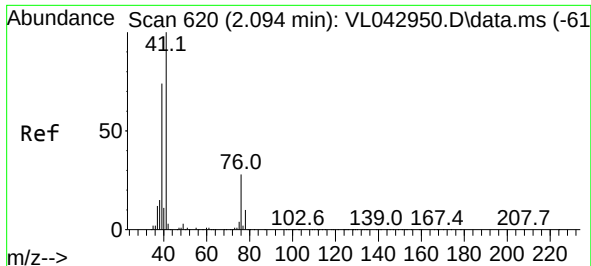
Tgt Ion: 45 Resp: 122753
Ion Ratio Lower Upper
45 100
58 38.8 31.0 46.6



#20
Methylene Chloride
Concen: 9.992 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 84 Resp: 66314
Ion Ratio Lower Upper
84 100
49 155.1 124.1 186.1
51 49.8 39.8 59.8
86 63.6 50.9 76.3

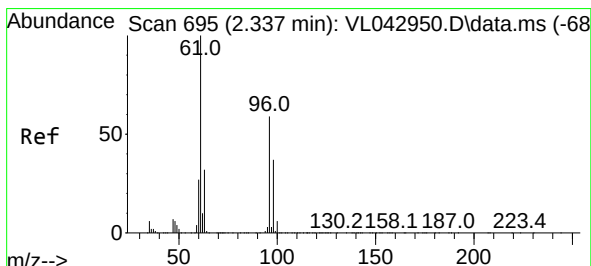
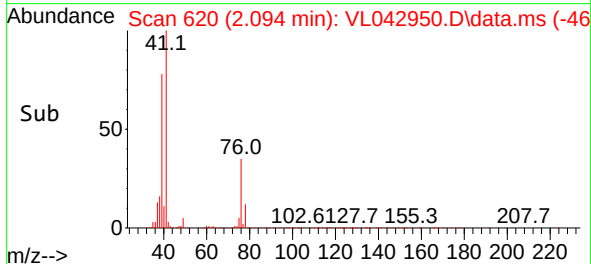
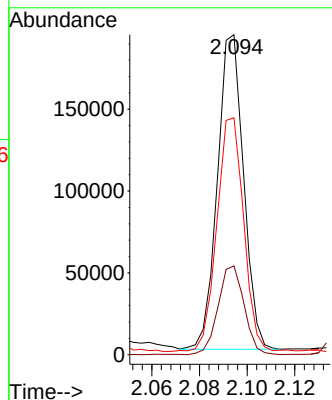
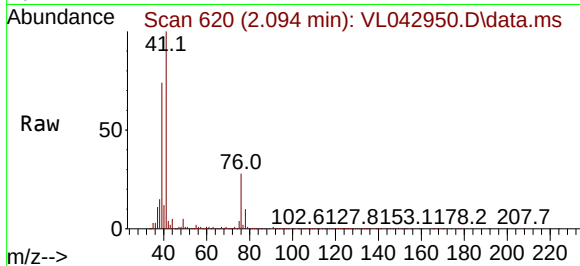




#21
 Allyl Chloride
 Concen: 9.449 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

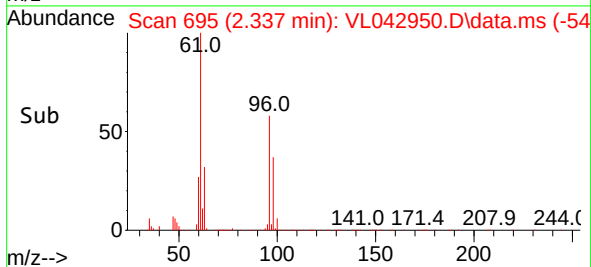
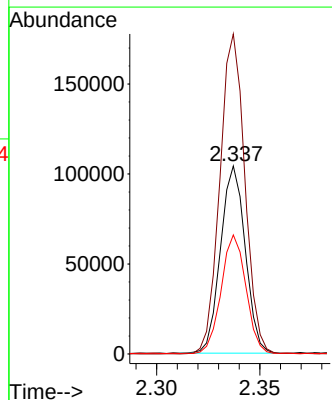
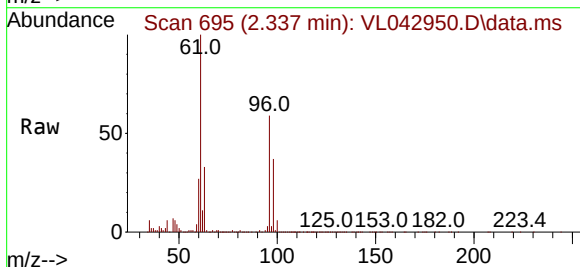
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

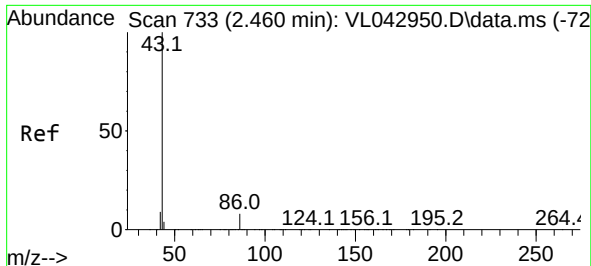
Tgt Ion: 41 Resp: 146473
 Ion Ratio Lower Upper
 41 100
 76 27.9 22.3 33.5
 39 76.6 61.3 91.9



#22
 trans-1,2-Dichloroethene
 Concen: 9.172 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

Tgt Ion: 96 Resp: 86580
 Ion Ratio Lower Upper
 96 100
 61 170.6 136.5 204.7
 98 63.3 50.6 76.0



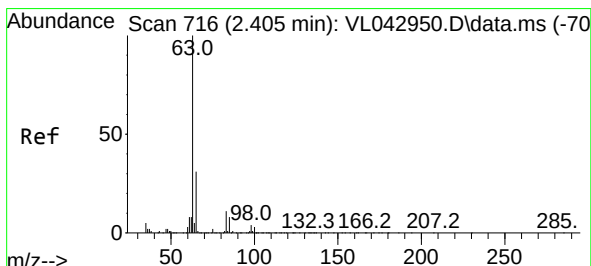
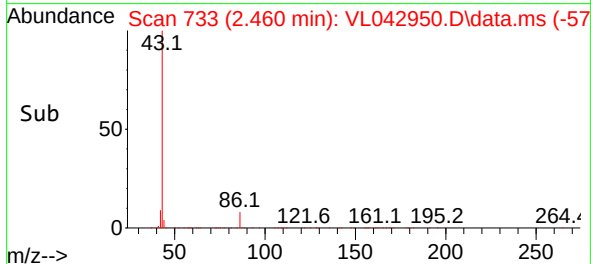
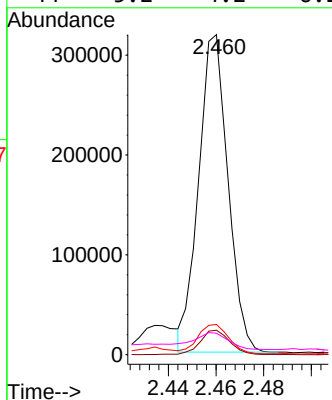
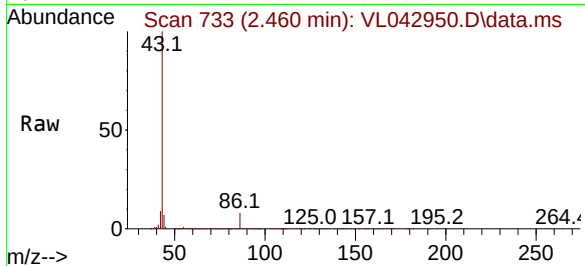


#23
 Vinyl Acetate
 Concen: 8.566 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 43 Resp: 272378

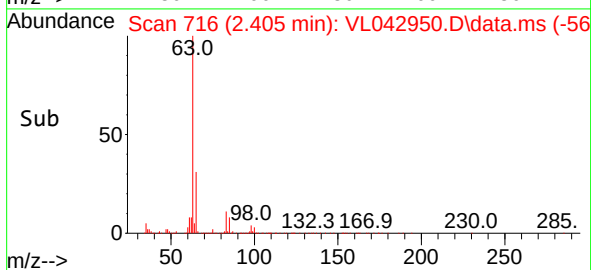
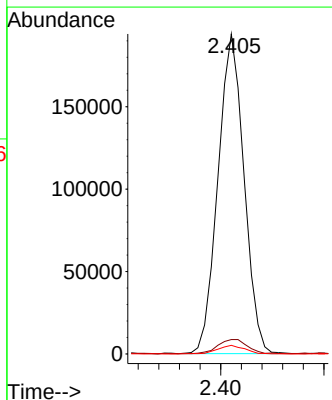
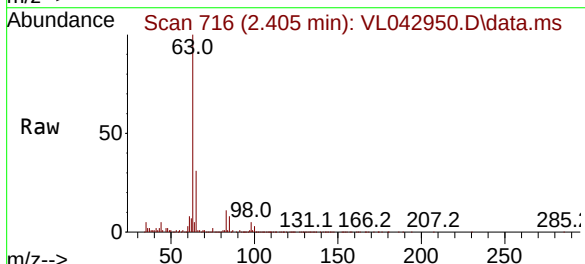
Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.2	9.2
42	9.2	7.4	11.0
44	5.2	4.2	6.2

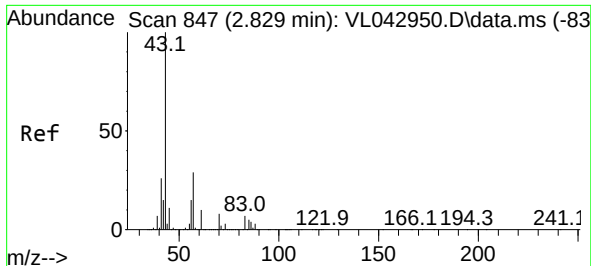


#24
 1,1-Dichloroethane
 Concen: 9.168 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

Tgt Ion: 63 Resp: 169721

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.2	6.6
100	2.7	1.4	4.0

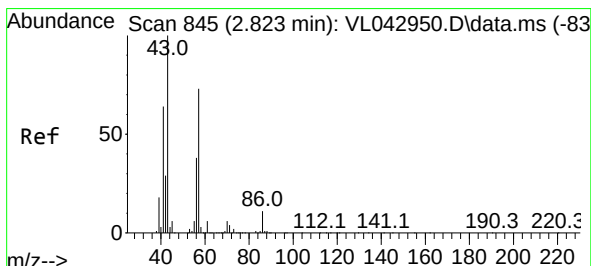
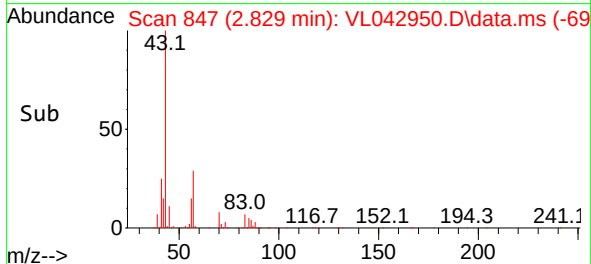
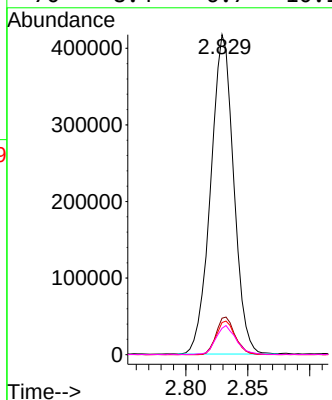
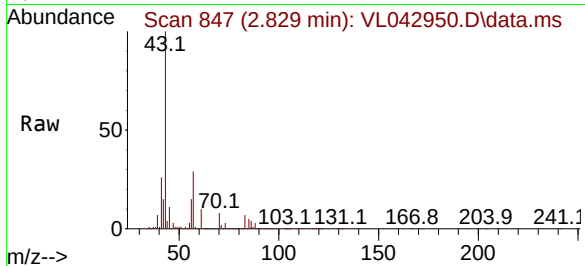




#25
Ethyl Acetate
Concen: 9.577 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

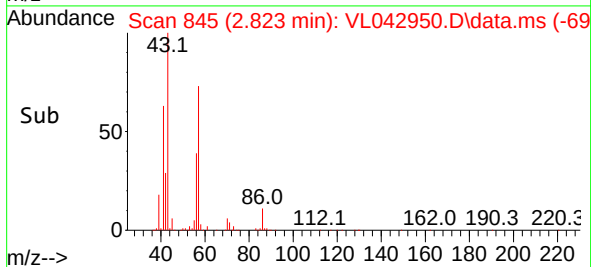
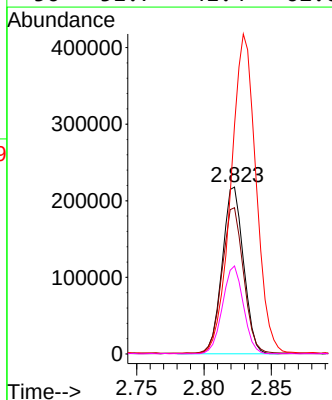
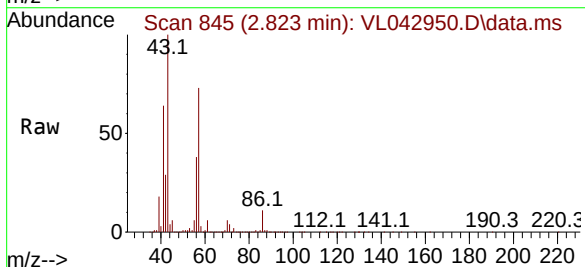
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

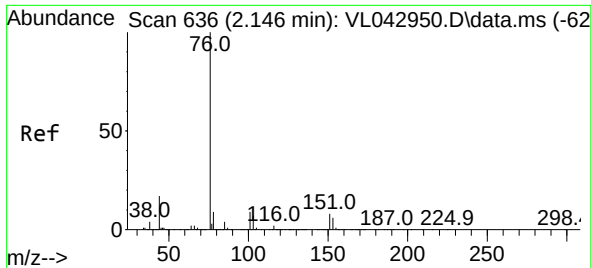
Tgt Ion: 43 Resp: 538761
Ion Ratio Lower Upper
43 100
45 9.6 7.7 11.5
61 8.9 7.1 10.7
70 8.4 6.7 10.1



#26
Hexane
Concen: 9.316 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 57 Resp: 238896
Ion Ratio Lower Upper
57 100
41 89.6 71.7 107.5
43 226.0 180.8 271.2
56 51.7 41.4 62.0

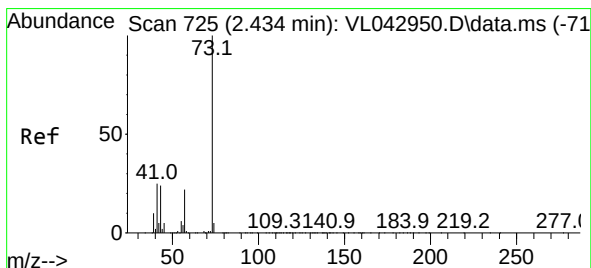
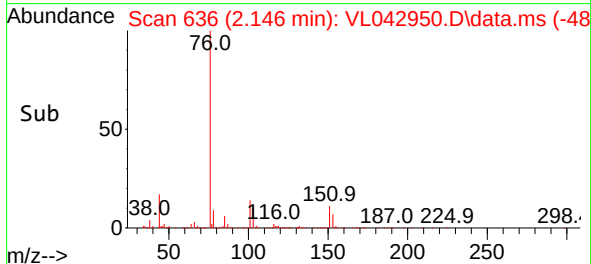
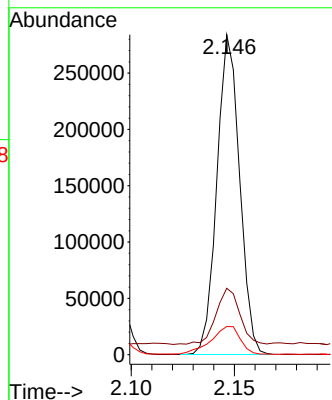
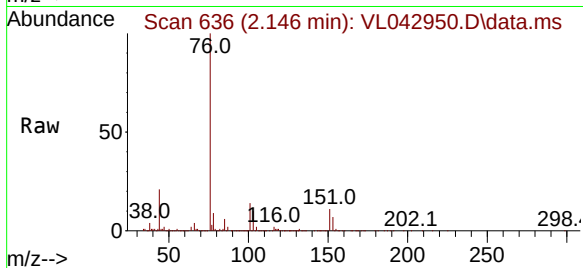




#27
Carbon Disulfide
Concen: 9.446 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

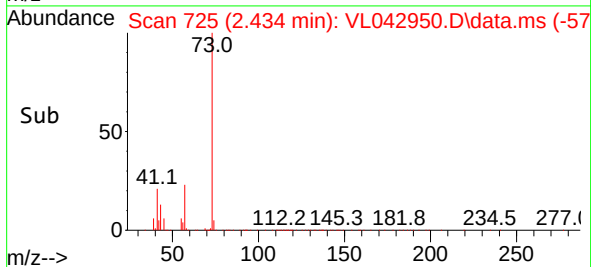
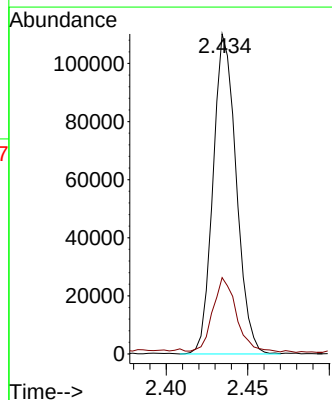
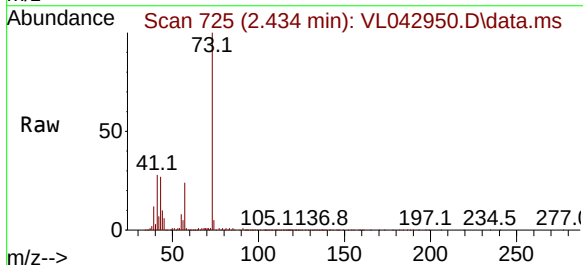
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

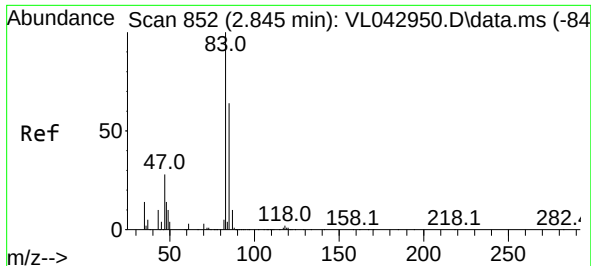
Tgt Ion: 76 Resp: 217259
Ion Ratio Lower Upper
76 100
44 19.5 15.6 23.4
78 11.1 8.9 13.3



#28
Methyl tert-Butyl Ether
Concen: 8.176 ppbv
RT: 2.434 min Scan# 725
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 73 Resp: 108987
Ion Ratio Lower Upper
73 100
57 25.8 20.6 31.0





#29

Chloroform

Concen: 9.418 ppbv

RT: 2.845 min Scan# 852

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_1

ClientSampleId :

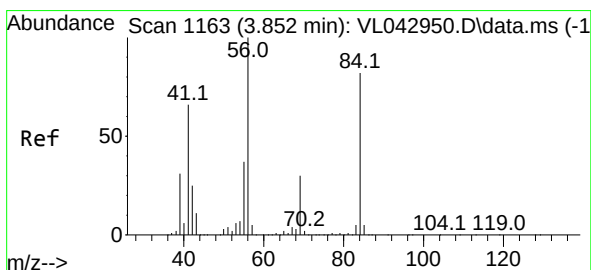
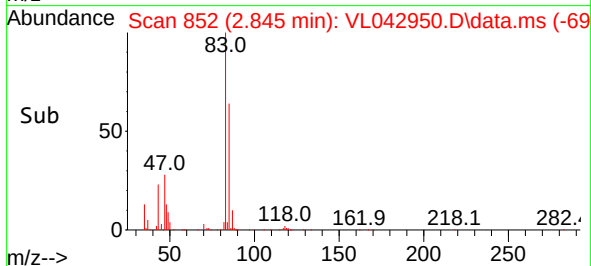
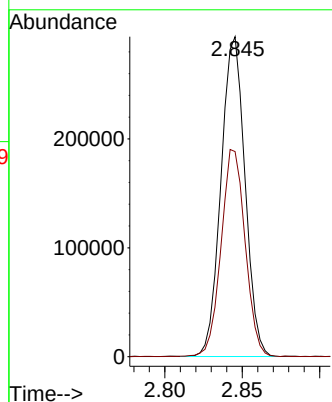
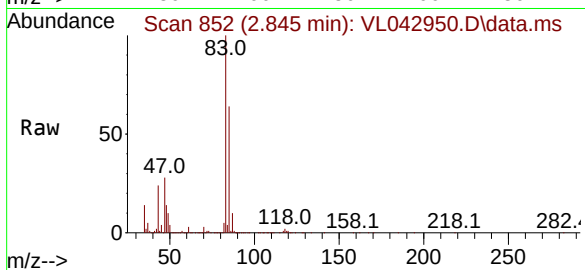
VSTDICCC010

Tgt Ion: 83 Resp: 315779

Ion Ratio Lower Upper

83 100

85 64.0 51.2 76.8



#30

Cyclohexane

Concen: 9.506 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

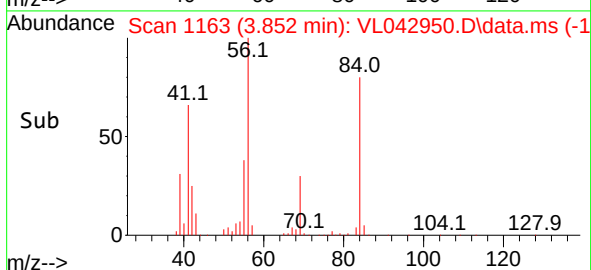
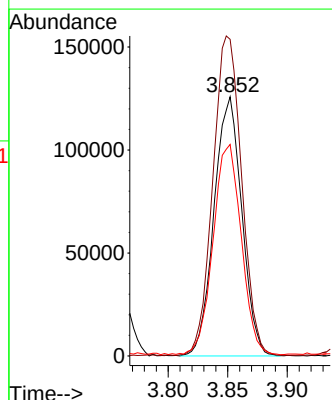
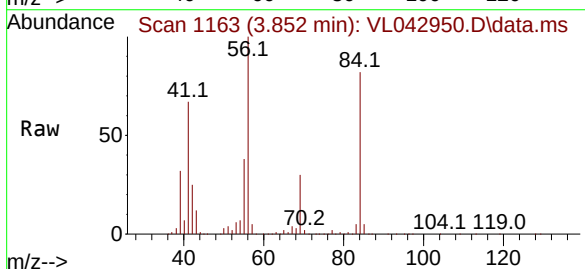
Tgt Ion: 84 Resp: 203803

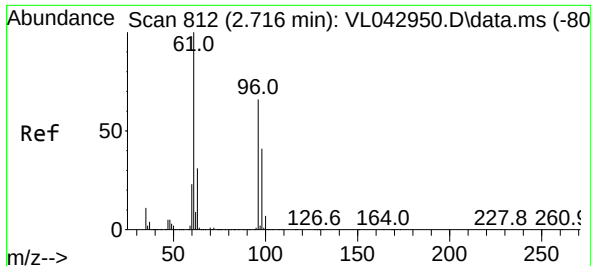
Ion Ratio Lower Upper

84 100

56 127.8 102.2 153.4

41 82.0 65.6 98.4

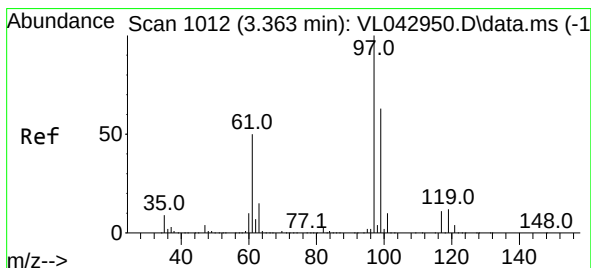
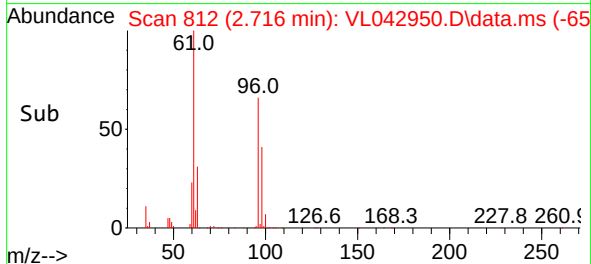
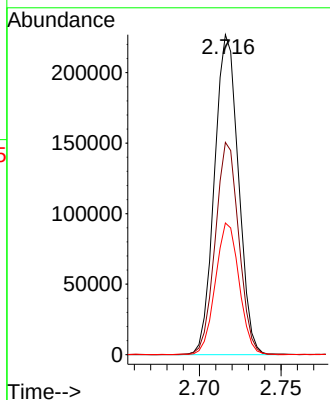
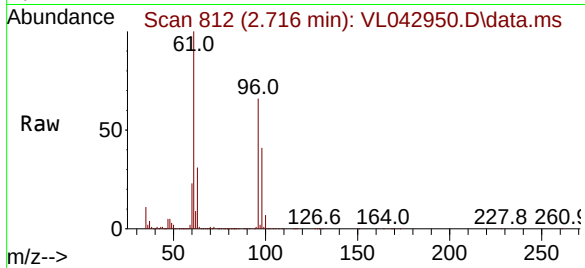




#31
 cis-1,2-Dichloroethene
 Concen: 9.654 ppbv
 RT: 2.716 min Scan# 812
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

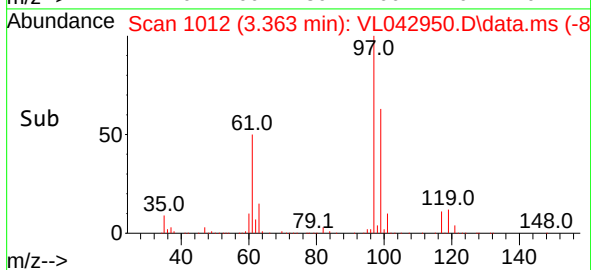
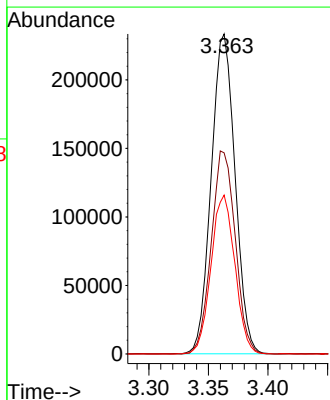
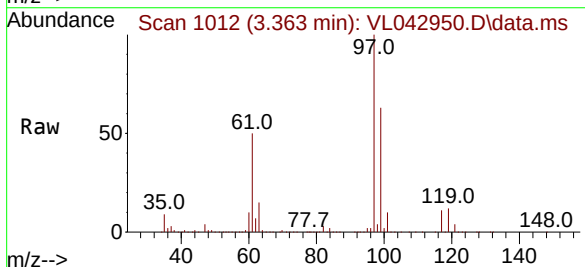
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

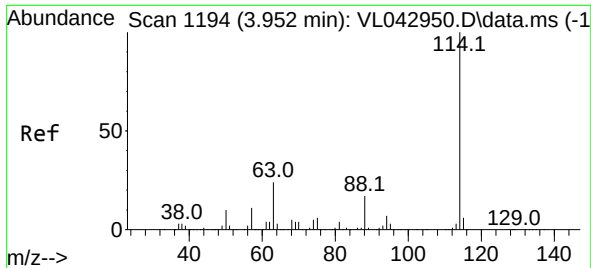
Tgt Ion: 61 Resp: 231907
 Ion Ratio Lower Upper
 61 100
 96 66.3 53.0 79.6
 98 41.1 32.9 49.3



#32
 1,1,1-Trichloroethane
 Concen: 8.947 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

Tgt Ion: 97 Resp: 325118
 Ion Ratio Lower Upper
 97 100
 99 63.9 51.1 76.7
 61 49.7 39.8 59.6

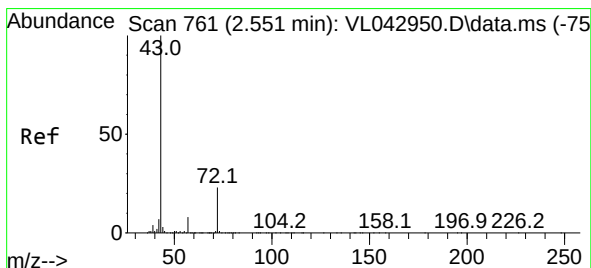
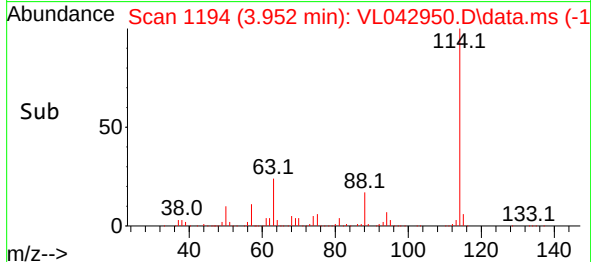
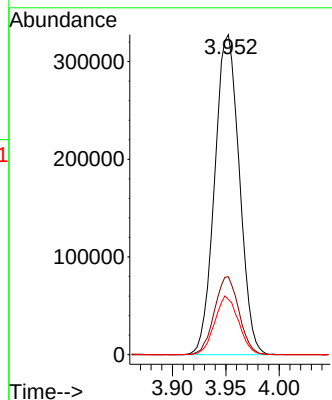
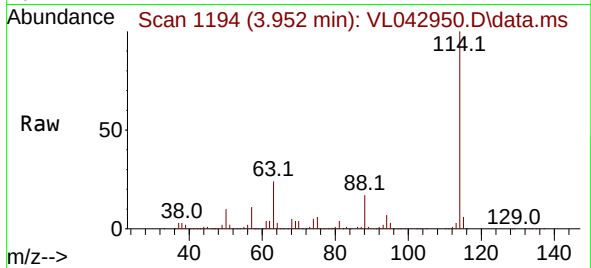




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

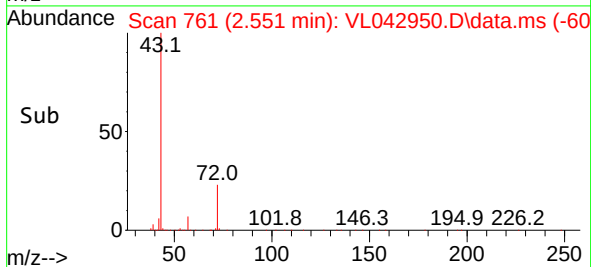
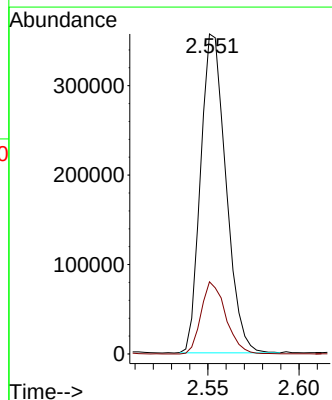
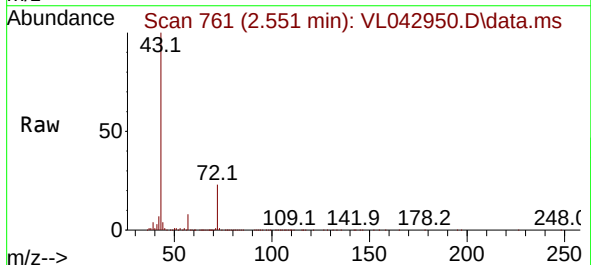
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

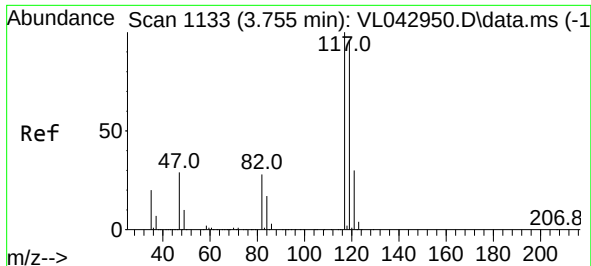
Tgt Ion:114 Resp: 526679
Ion Ratio Lower Upper
114 100
63 24.3 19.4 29.2
88 17.7 14.2 21.2



#34
2-Butanone
Concen: 9.343 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 43 Resp: 344874
Ion Ratio Lower Upper
43 100
72 22.1 17.7 26.5

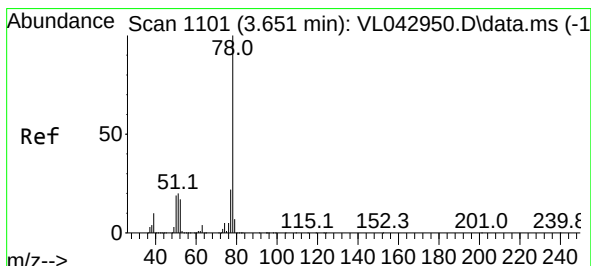
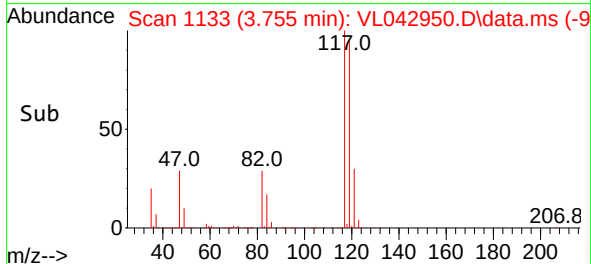
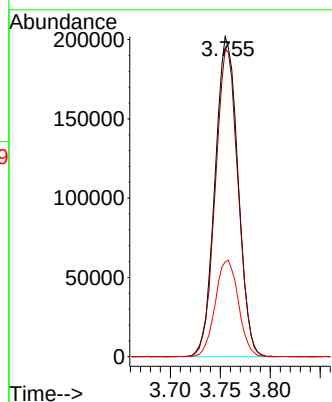
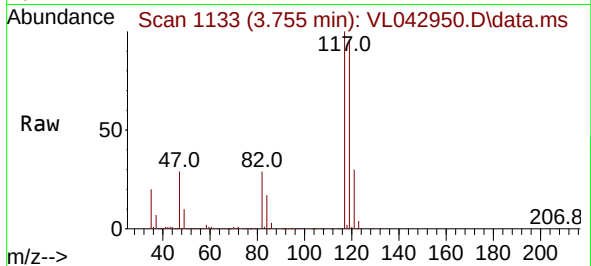




#35
Carbon Tetrachloride
Concen: 9.480 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

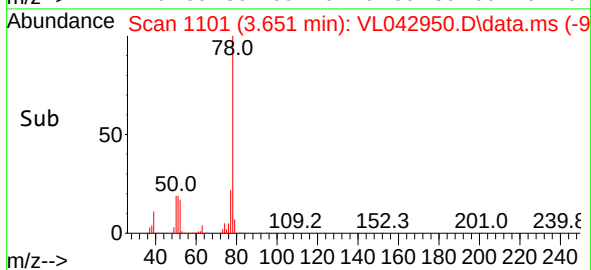
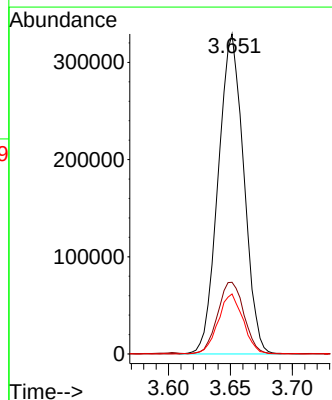
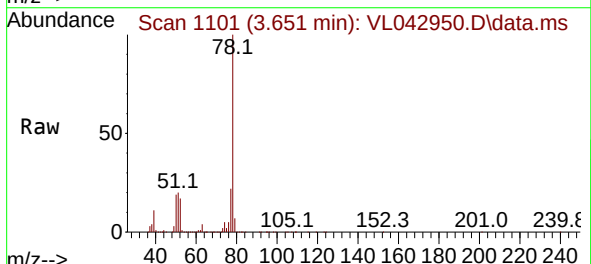
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

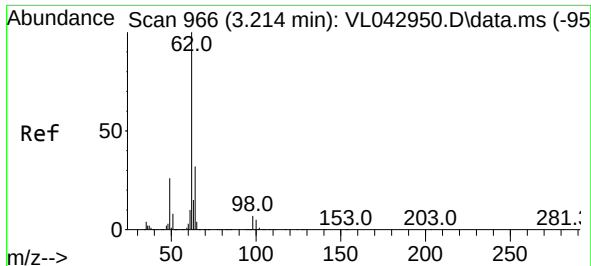
Tgt Ion:117 Resp: 321267
Ion Ratio Lower Upper
117 100
119 96.1 76.9 115.3
121 29.6 23.7 35.5



#36
Benzene
Concen: 9.561 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 78 Resp: 472855
Ion Ratio Lower Upper
78 100
77 22.2 17.8 26.6
50 18.7 15.0 22.4





#37

1,2-Dichloroethane

Concen: 9.525 ppbv

RT: 3.214 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_L

ClientSampleId :

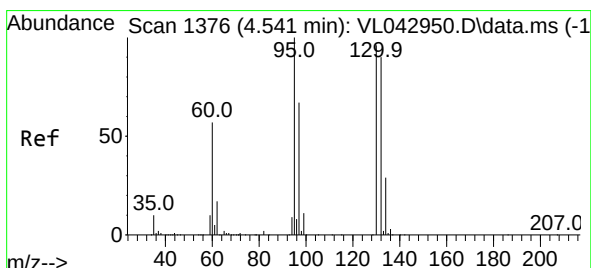
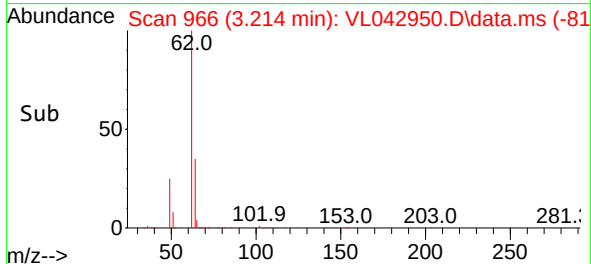
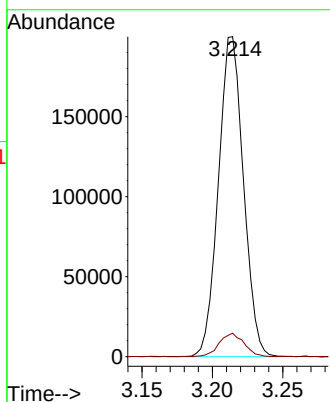
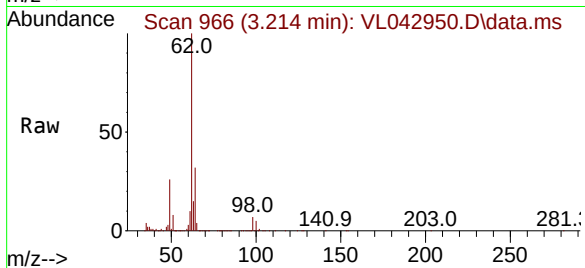
VSTDICCC010

Tgt Ion: 62 Resp: 247754

Ion Ratio Lower Upper

62 100

98 7.4 5.9 8.9



#38

Trichloroethene

Concen: 9.134 ppbv

RT: 4.541 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Tgt Ion:130 Resp: 224516

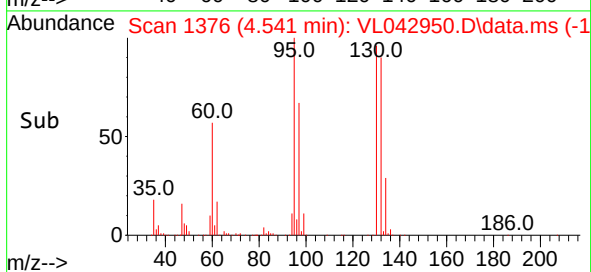
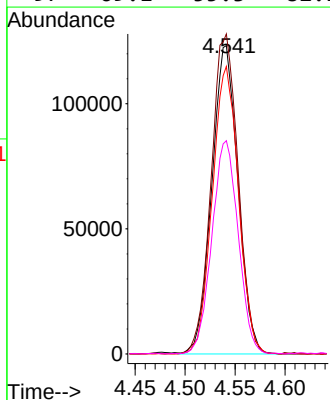
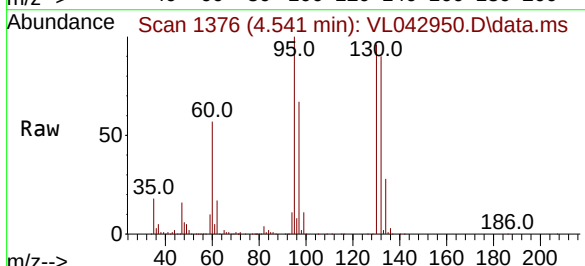
Ion Ratio Lower Upper

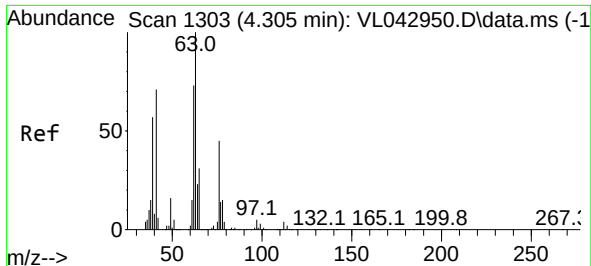
130 100

95 103.7 83.0 124.4

132 93.3 74.6 112.0

97 69.1 55.3 82.9





#39

1,2-Dichloropropane

Concen: 9.523 ppbv

RT: 4.305 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

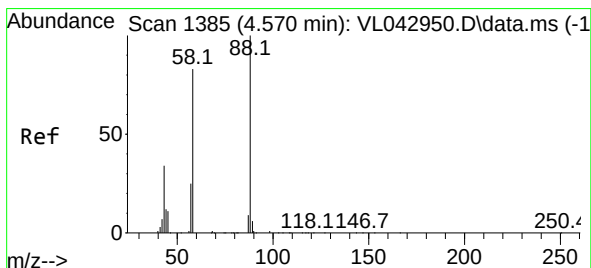
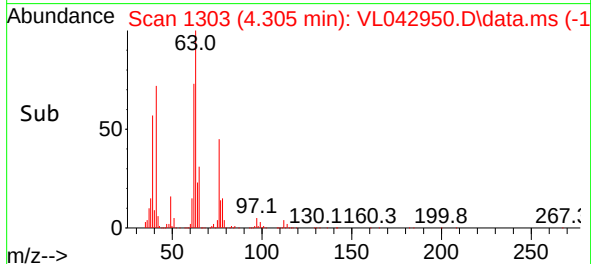
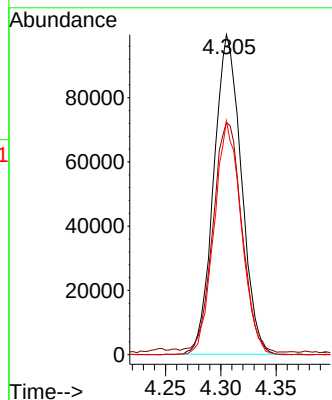
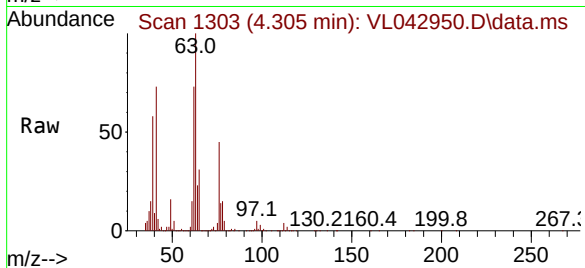
Tgt Ion: 63 Resp: 172059

Ion Ratio Lower Upper

63 100

41 71.9 57.5 86.3

62 73.1 58.5 87.7



#40

1,4-Dioxane

Concen: 9.283 ppbv

RT: 4.570 min Scan# 1385

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Tgt Ion: 88 Resp: 77889

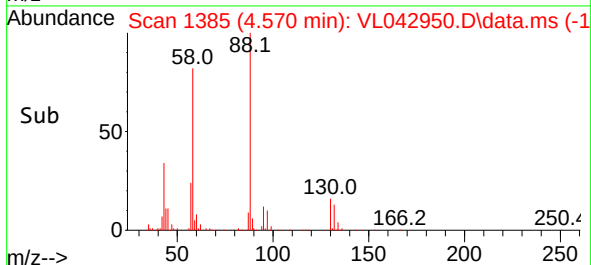
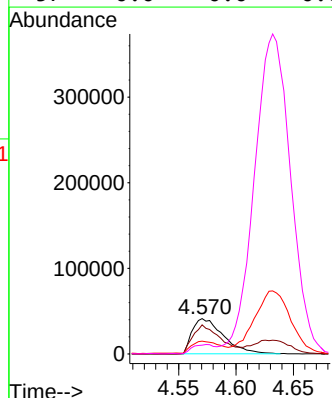
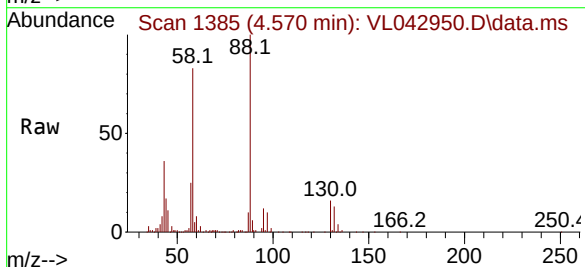
Ion Ratio Lower Upper

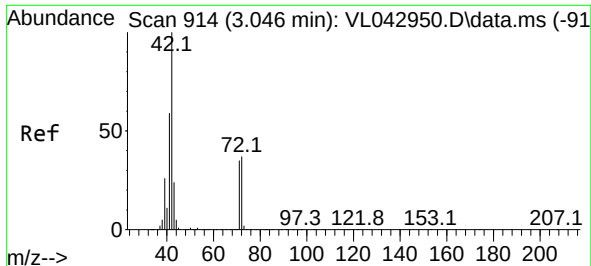
88 100

58 74.6 59.7 89.5

43 36.1 28.9 43.3

57 0.0 0.0 0.0

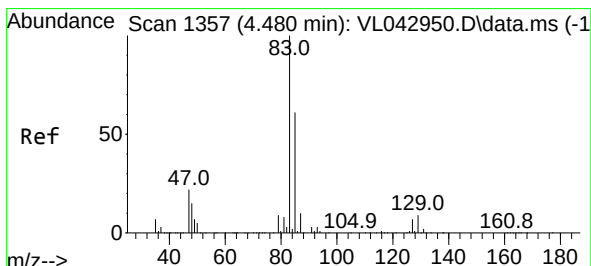
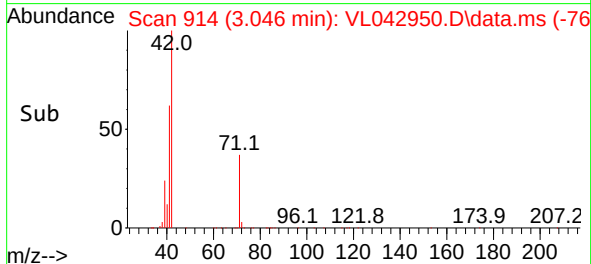
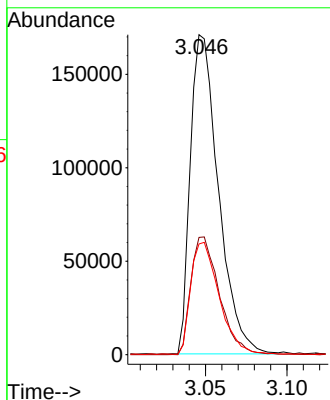
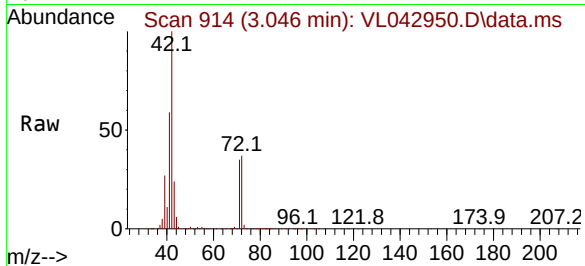




#41
Tetrahydrofuran
Concen: 9.649 ppbv
RT: 3.046 min Scan# 914
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

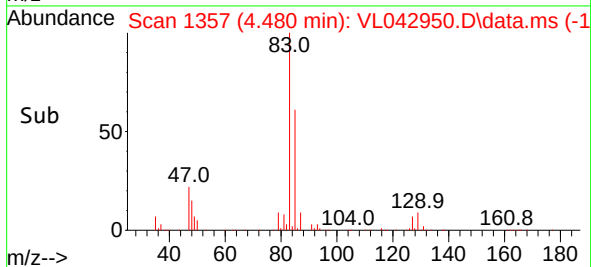
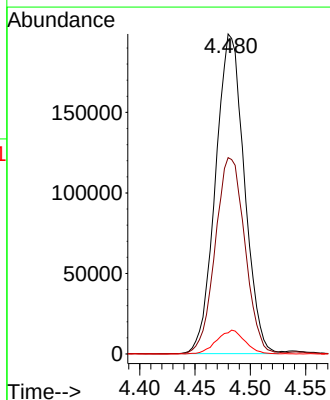
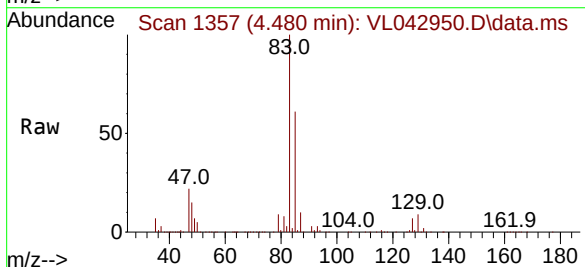
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

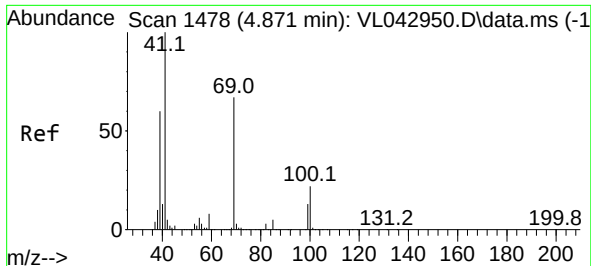
Tgt Ion: 42 Resp: 204724
Ion Ratio Lower Upper
42 100
72 37.5 30.0 45.0
71 36.0 28.8 43.2



#42
Bromodichloromethane
Concen: 9.903 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 83 Resp: 358858
Ion Ratio Lower Upper
83 100
85 61.3 49.0 73.6
127 6.6 5.3 7.9

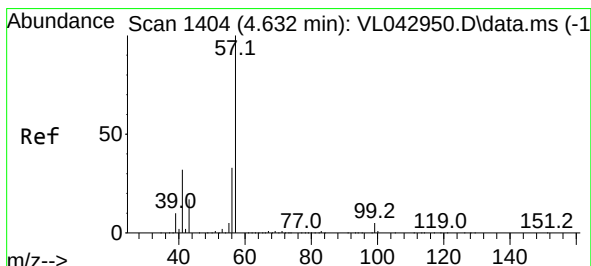
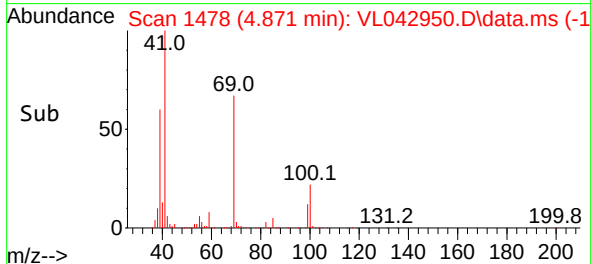
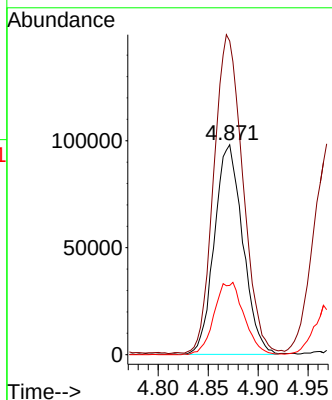
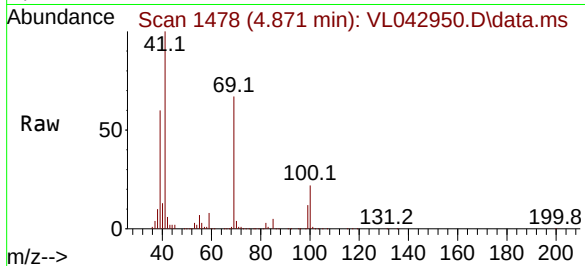




#43
Methyl Methacrylate
Concen: 9.646 ppbv
RT: 4.871 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

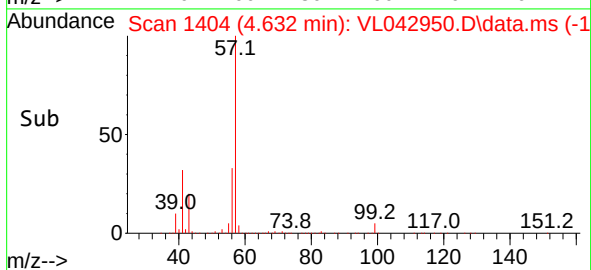
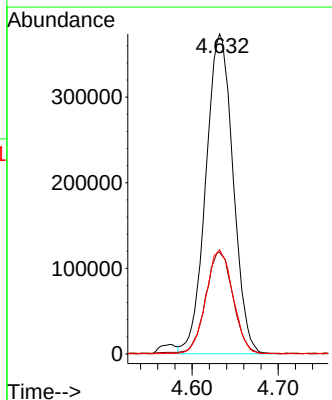
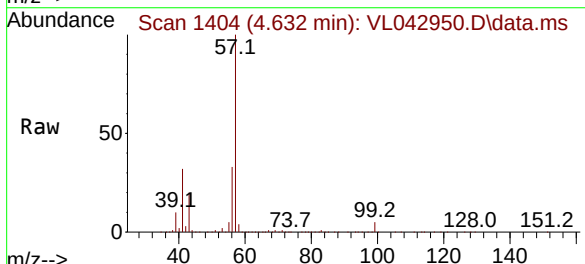
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

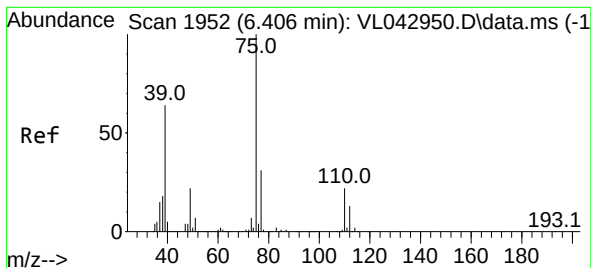
Tgt Ion: 69 Resp: 193676
Ion Ratio Lower Upper
69 100
41 155.6 124.5 186.7
100 36.3 29.0 43.6



#44
2,2,4-Trimethylpentane
Concen: 9.631 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 57 Resp: 823031
Ion Ratio Lower Upper
57 100
41 31.9 25.5 38.3
56 32.3 25.8 38.8





#45

t-1,3-Dichloropropene

Concen: 9.969 ppbv

RT: 6.406 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_L

ClientSampleId :

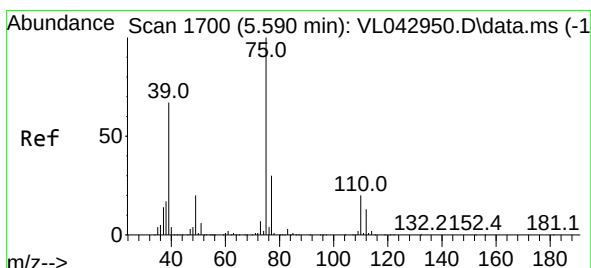
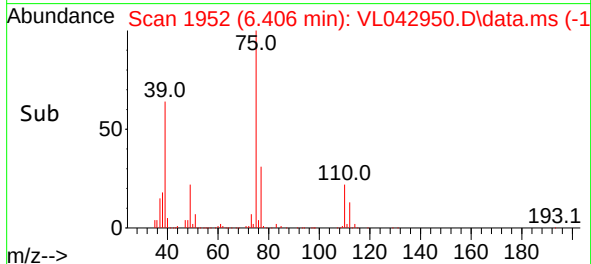
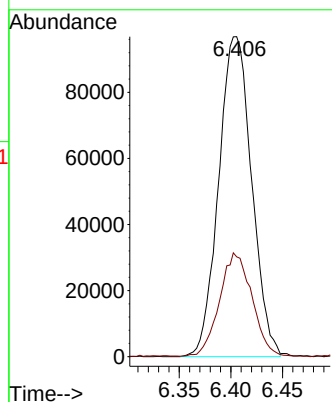
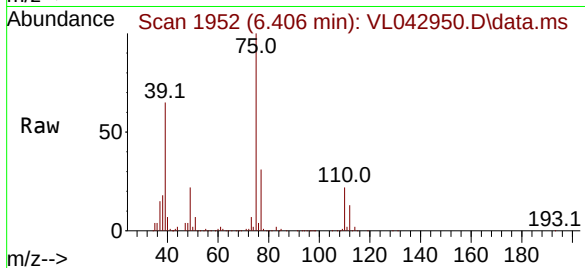
VSTDICCC010

Tgt Ion: 75 Resp: 215233

Ion Ratio Lower Upper

75 100

77 31.2 25.0 37.4



#46

cis-1,3-Dichloropropene

Concen: 10.006 ppbv

RT: 5.590 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

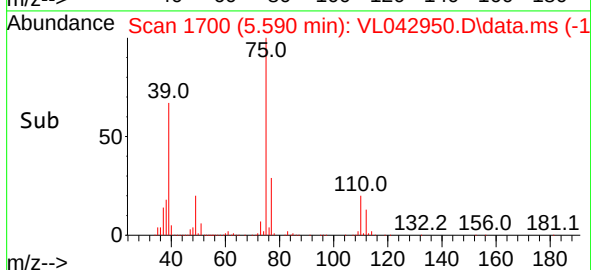
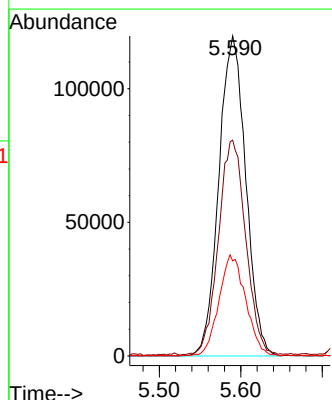
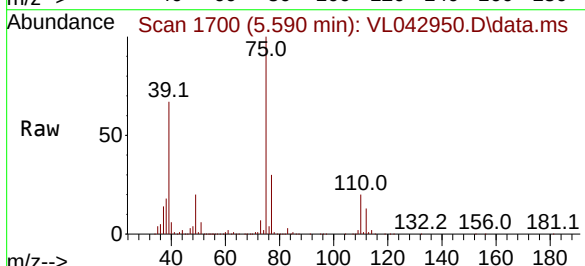
Tgt Ion: 75 Resp: 275210

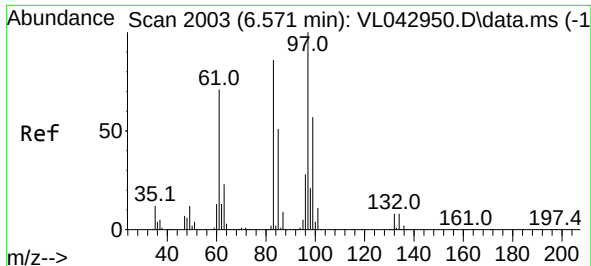
Ion Ratio Lower Upper

75 100

39 67.2 53.8 80.6

77 29.5 23.6 35.4



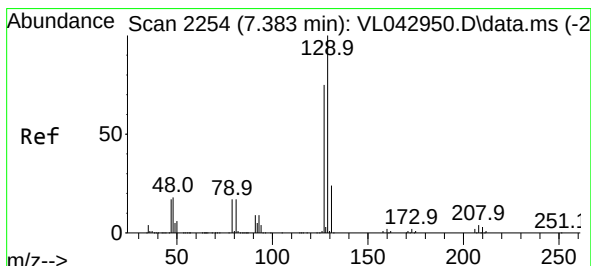
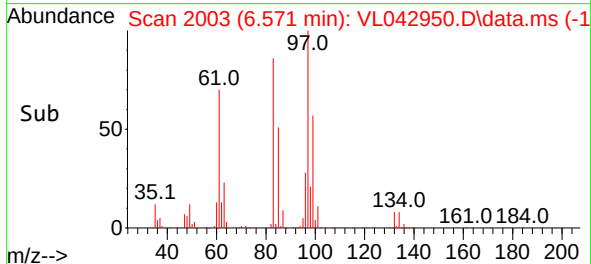
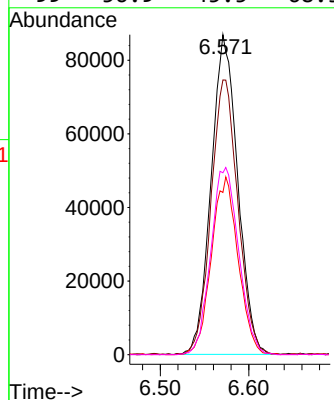
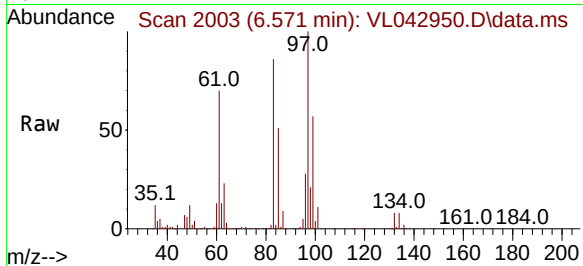


#47
1,1,2-Trichloroethane
Concen: 9.498 ppbv
RT: 6.571 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

Tgt Ion: 97 Resp: 181329

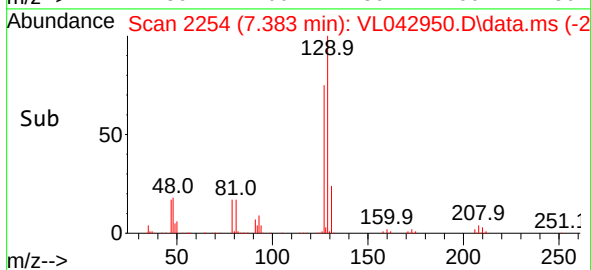
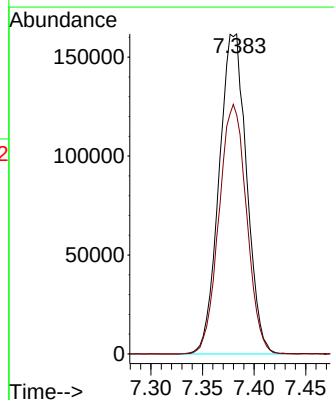
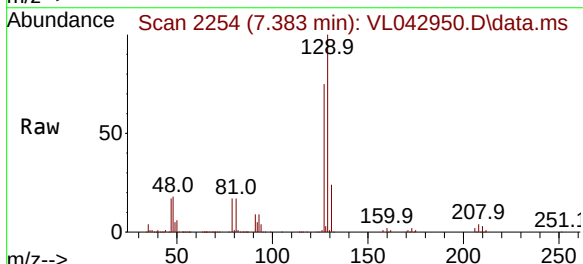
Ion	Ratio	Lower	Upper
97	100		
83	85.9	68.7	103.1
85	50.7	40.6	60.8
99	56.9	45.5	68.3

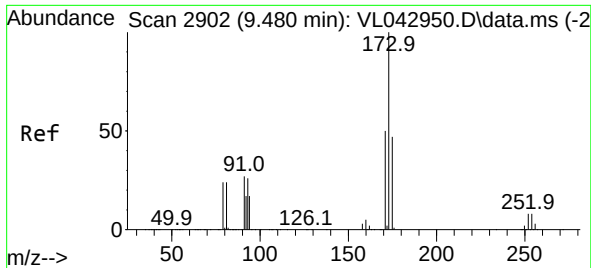


#48
Dibromochloromethane
Concen: 9.845 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 129 Resp: 300497

Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.1	117.2

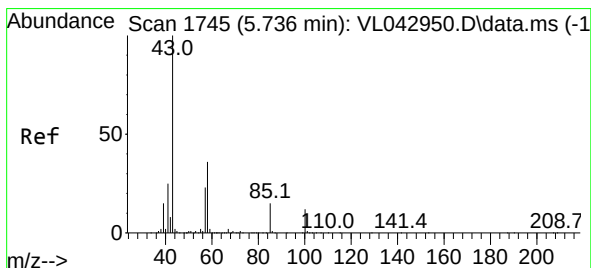
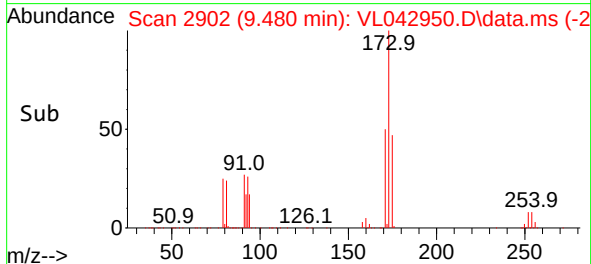
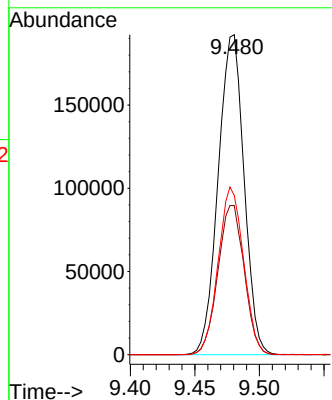
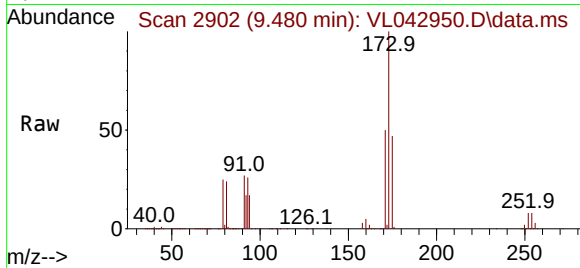




#49
Bromoform
Concen: 10.087 ppbv
RT: 9.480 min Scan# 2902
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

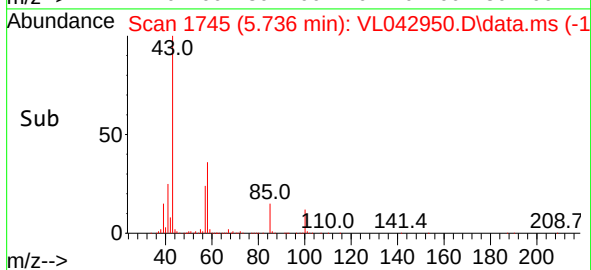
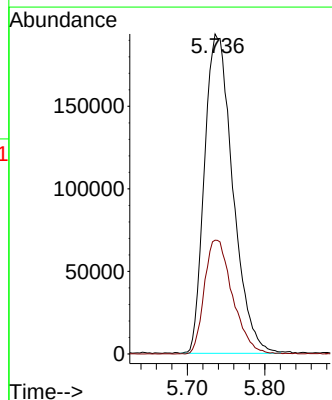
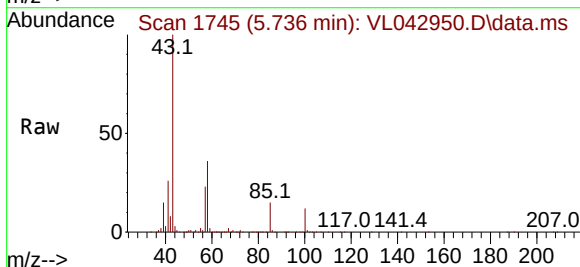
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

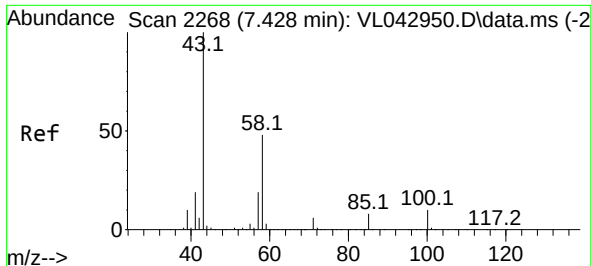
Tgt Ion:173 Resp: 267814
Ion Ratio Lower Upper
173 100
175 47.4 37.9 56.9
171 51.4 41.1 61.7



#50
4-Methyl-2-Pentanone
Concen: 9.920 ppbv
RT: 5.736 min Scan# 1745
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 43 Resp: 492068
Ion Ratio Lower Upper
43 100
58 35.5 28.4 42.6

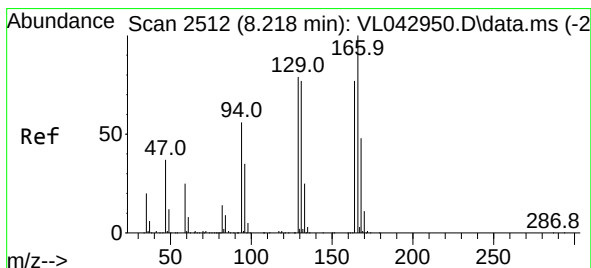
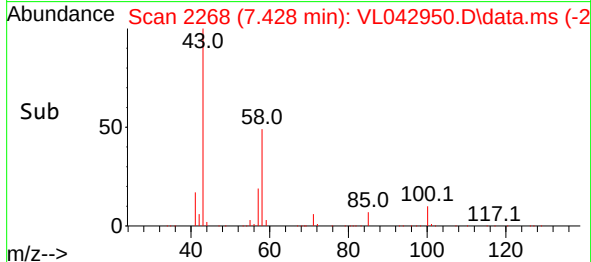
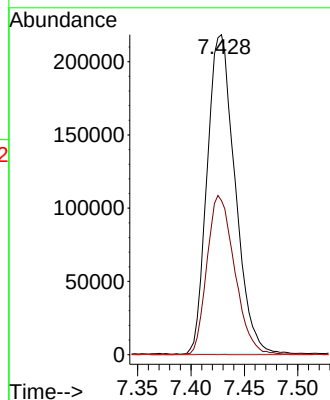
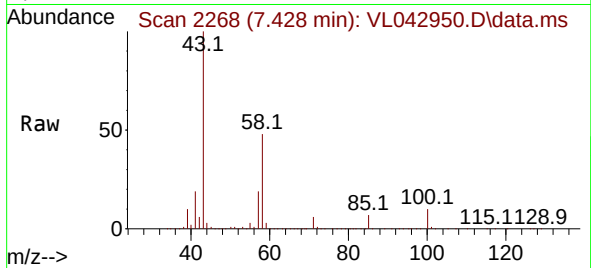




#51
2-Hexanone
Concen: 10.036 ppbv
RT: 7.428 min Scan# 211
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

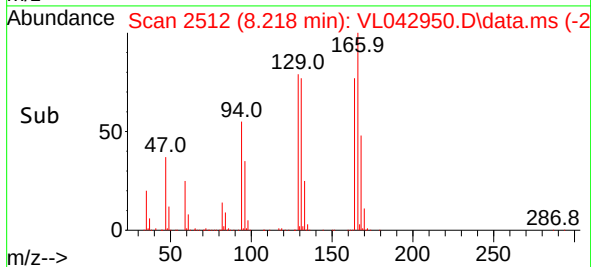
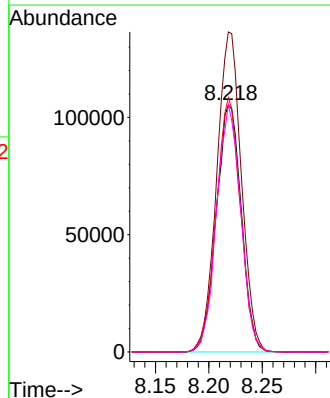
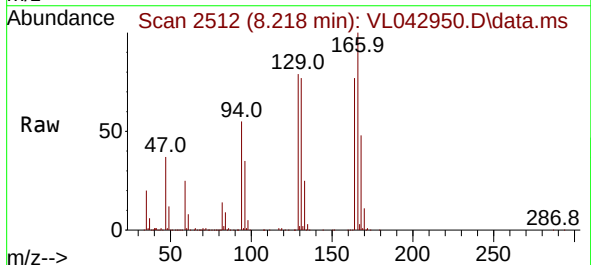
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

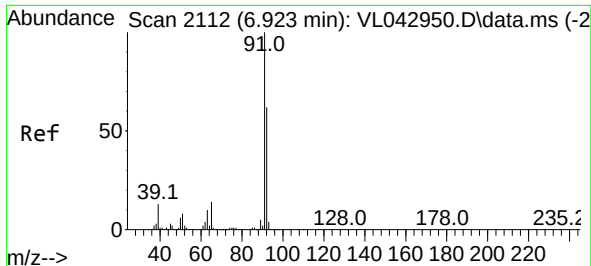
Tgt Ion: 43 Resp: 395744
Ion Ratio Lower Upper
43 100
58 49.6 39.7 59.5
98 0.1 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.951 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion:164 Resp: 171294
Ion Ratio Lower Upper
164 100
166 129.4 103.5 155.3
129 102.8 82.2 123.4
131 100.1 80.1 120.1

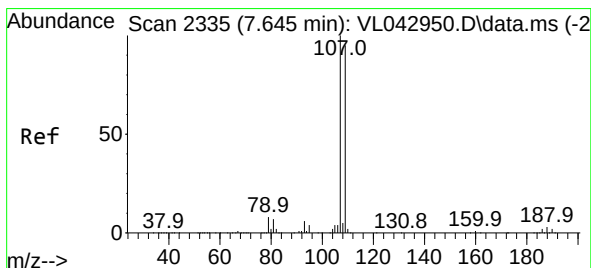
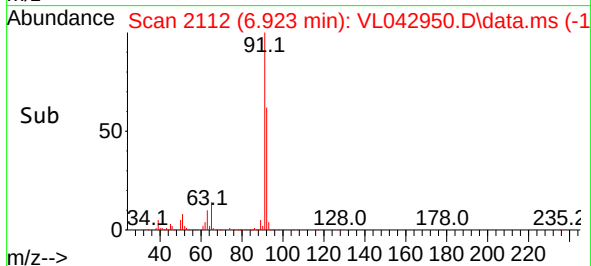
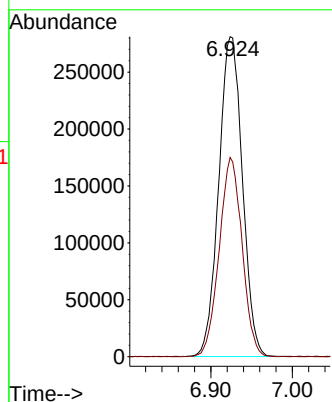
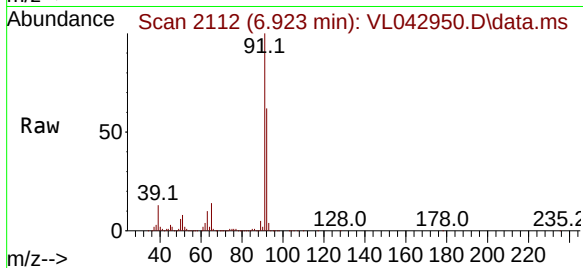




#53
Toluene
Concen: 9.699 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

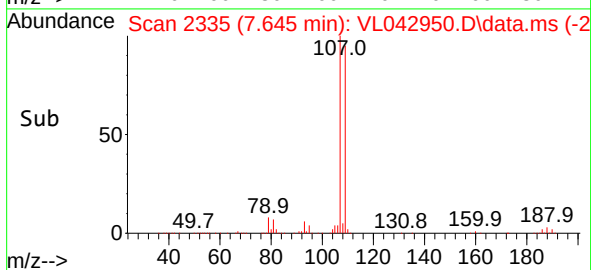
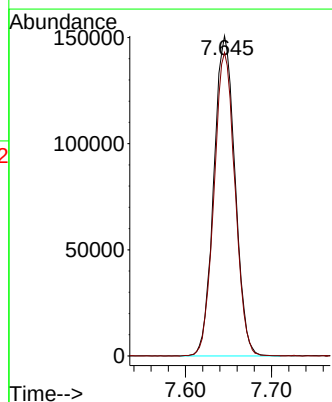
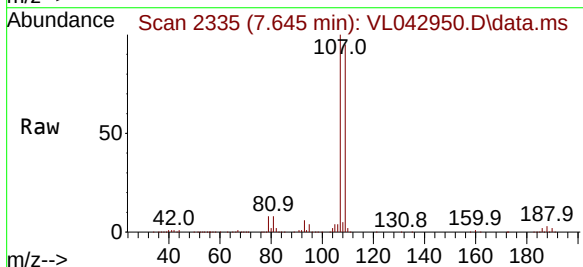
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

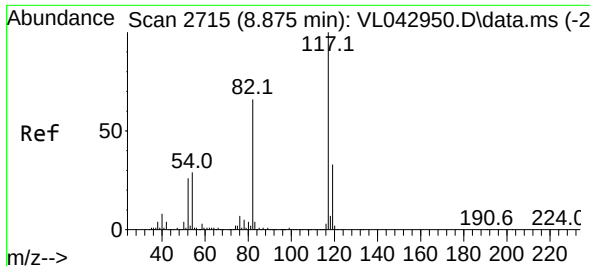
Tgt Ion: 91 Resp: 567779
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.2



#54
1,2-Dibromoethane
Concen: 9.605 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 107 Resp: 257904
Ion Ratio Lower Upper
107 100
109 94.8 75.8 113.8

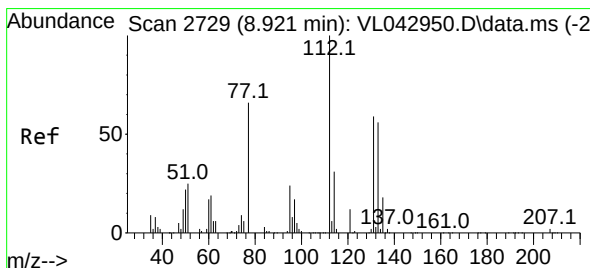
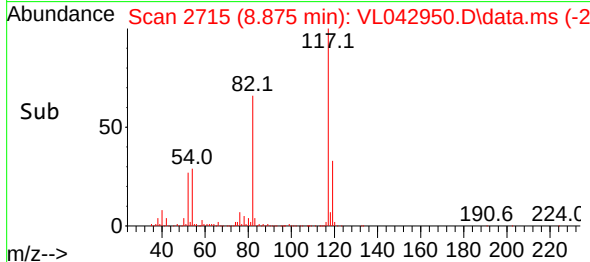
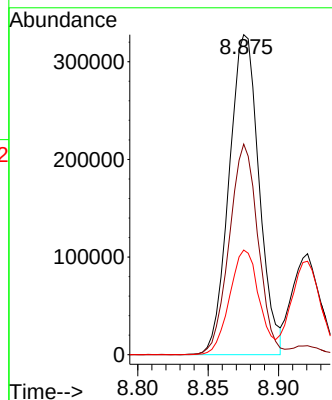
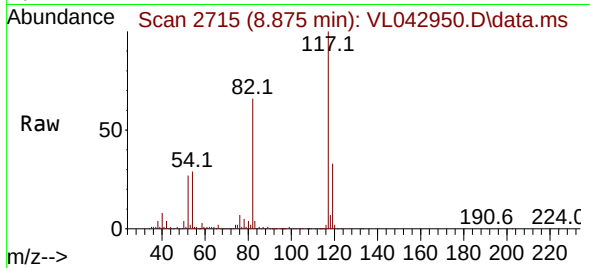




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

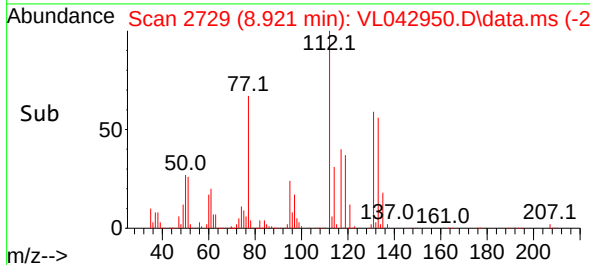
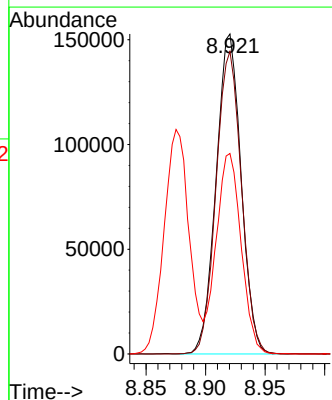
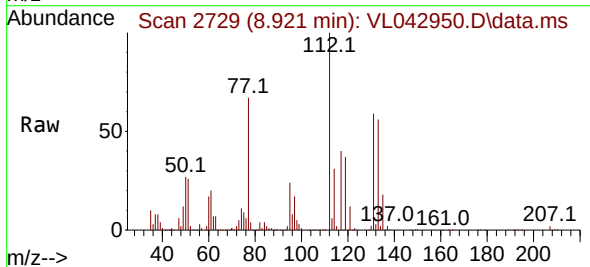
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

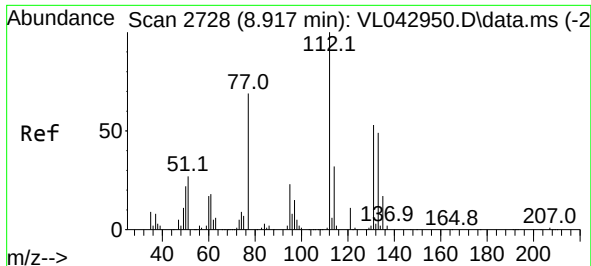
Tgt Ion:117 Resp: 486724
Ion Ratio Lower Upper
117 100
82 66.0 52.8 79.2
119 33.1 26.5 39.7



#56
1,1,1,2-Tetrachloroethane
Concen: 9.575 ppbv
RT: 8.921 min Scan# 2729
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion:131 Resp: 223066
Ion Ratio Lower Upper
131 100
133 95.7 76.6 114.8
119 62.4 49.9 74.9

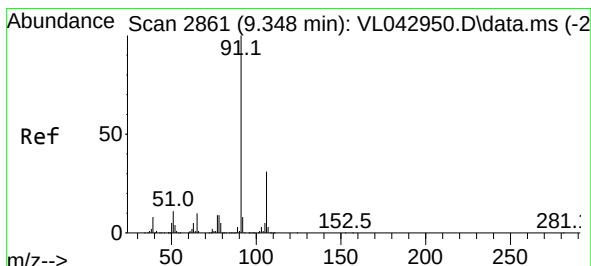
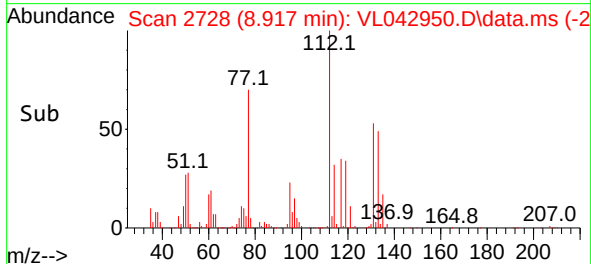
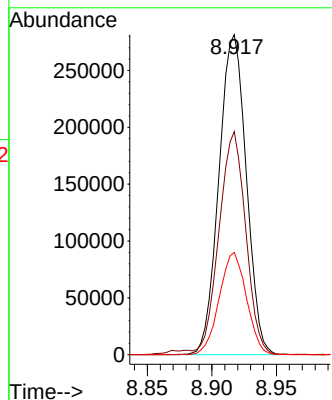
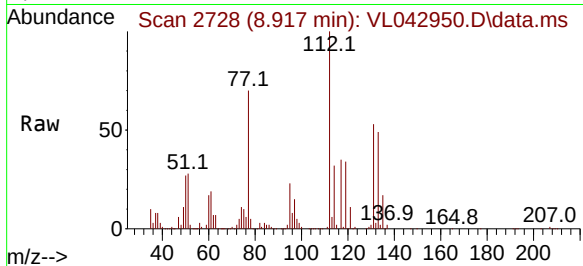




#57
Chlorobenzene
Concen: 9.345 ppbv
RT: 8.917 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

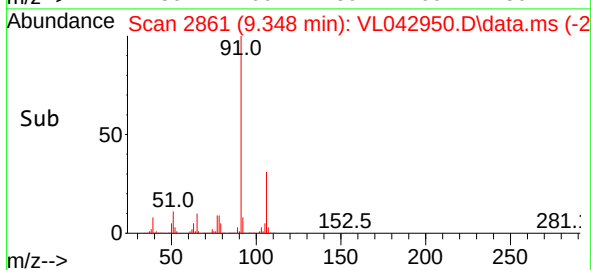
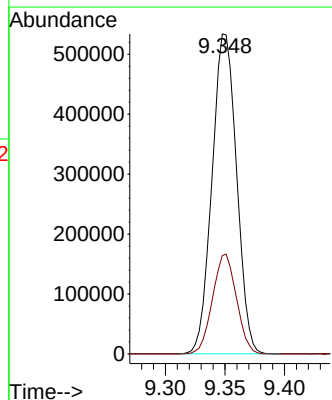
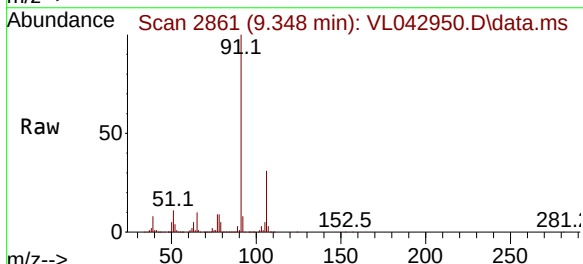
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

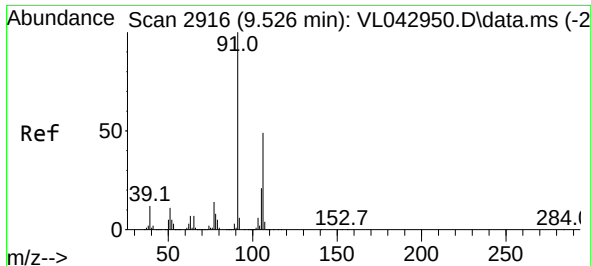
Tgt Ion:112 Resp: 415238
Ion Ratio Lower Upper
112 100
77 69.6 55.7 83.5
114 31.8 28.6 35.0



#58
Ethyl Benzene
Concen: 9.562 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 91 Resp: 764249
Ion Ratio Lower Upper
91 100
106 30.8 24.6 37.0

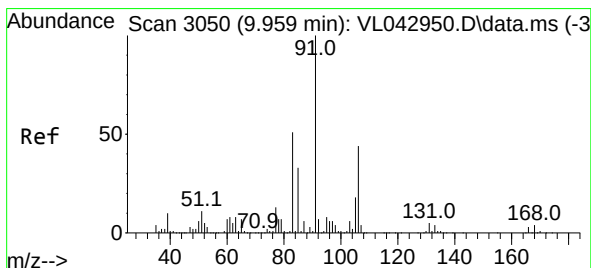
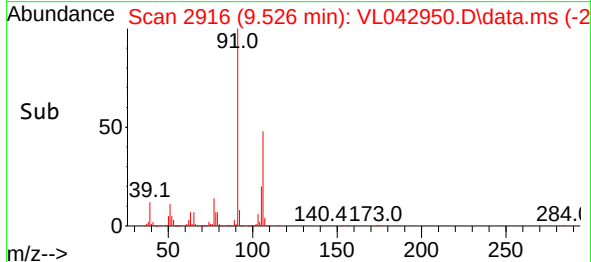
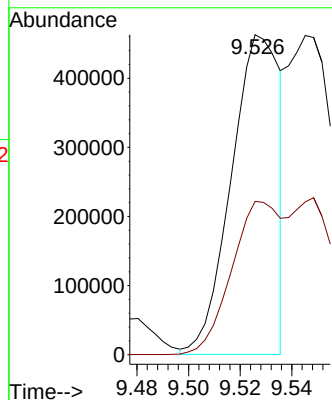
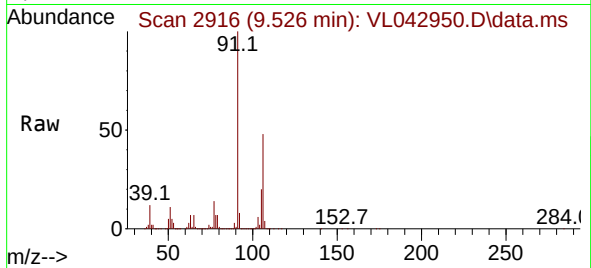




#59
m/p-Xylene
Concen: 9.519 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

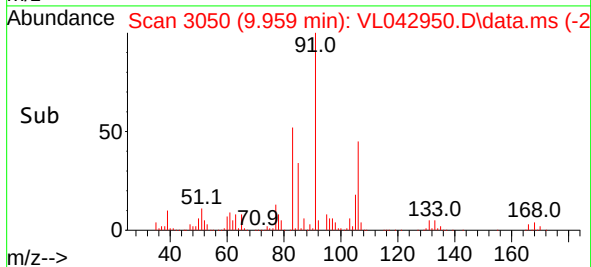
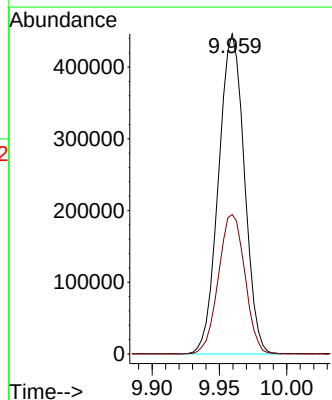
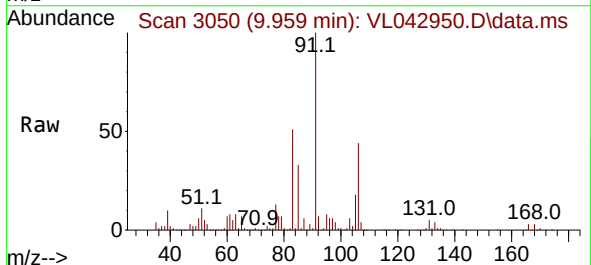
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

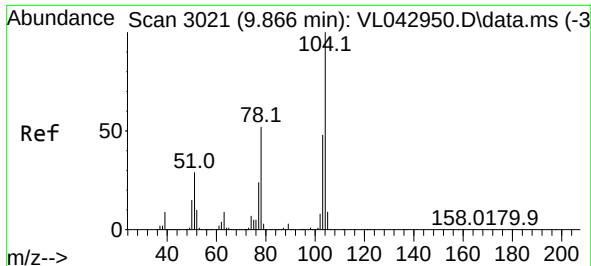
Tgt Ion: 91 Resp: 600237
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#60
o-Xylene
Concen: 9.437 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 91 Resp: 594329
Ion Ratio Lower Upper
91 100
106 44.7 22.4 67.0

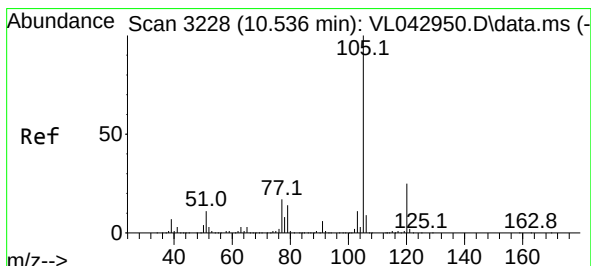
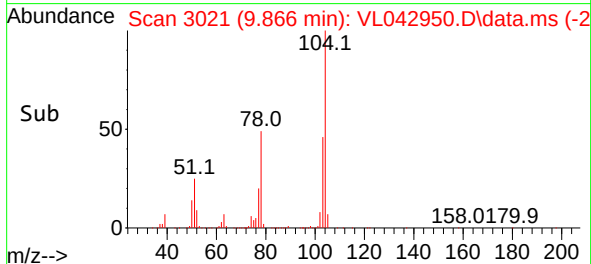
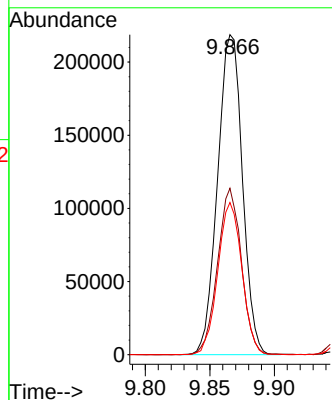
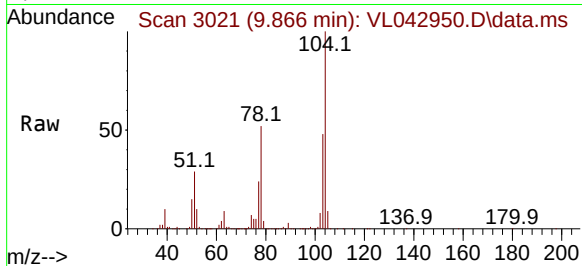




#61
Styrene
Concen: 9.840 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

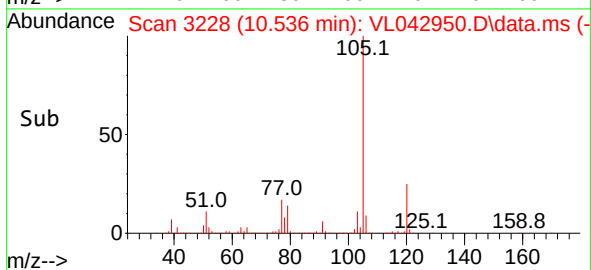
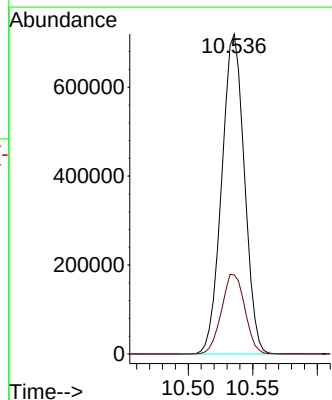
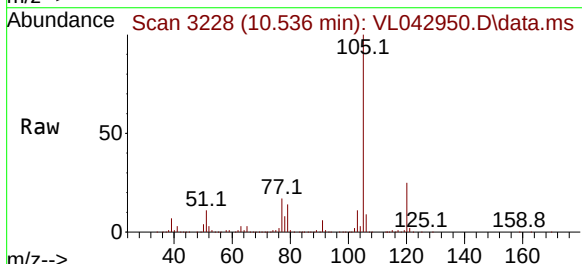
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

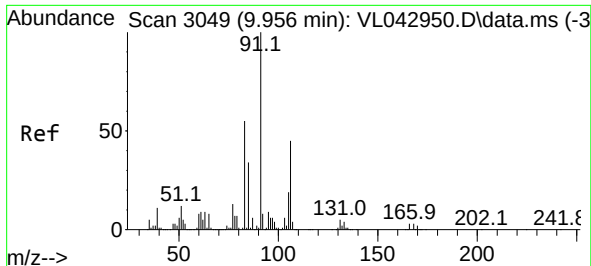
Tgt Ion:104 Resp: 293111
Ion Ratio Lower Upper
104 100
78 49.9 39.9 59.9
103 46.1 36.9 55.3



#62
Isopropylbenzene
Concen: 9.347 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion:105 Resp: 877401
Ion Ratio Lower Upper
105 100
120 25.7 20.6 30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 8.963 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

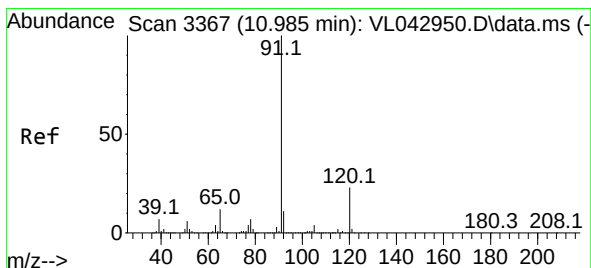
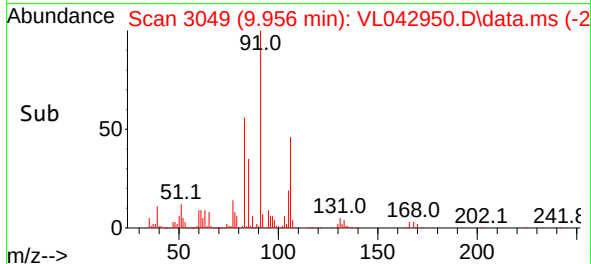
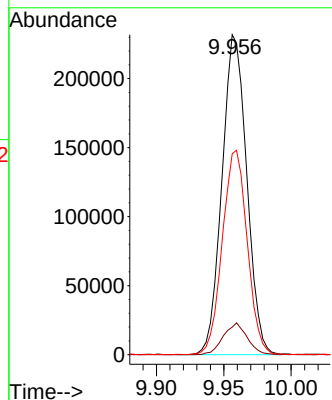
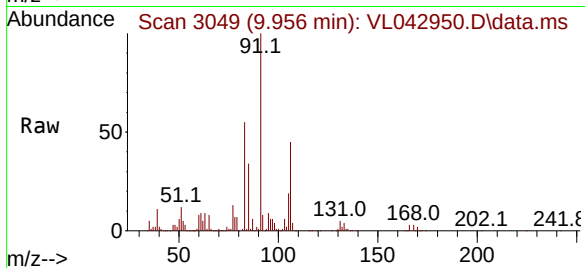
Tgt Ion: 83 Resp: 296678

Ion Ratio Lower Upper

83 100

131 9.6 4.8 14.4

85 64.4 32.2 96.6



#64

n-propylbenzene

Concen: 9.394 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. 0.000 min

Lab File: VL042950.D

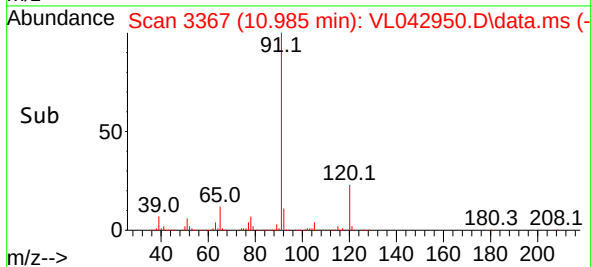
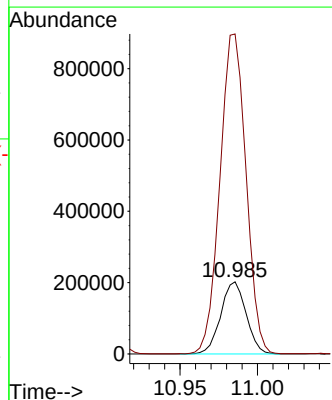
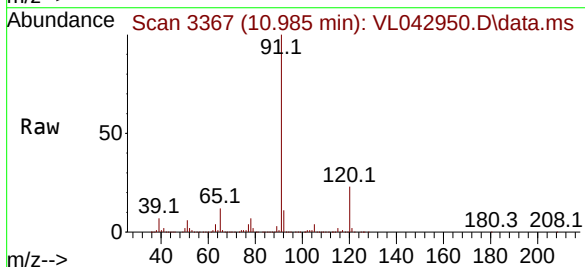
Acq: 22 Sep 2025 09:39

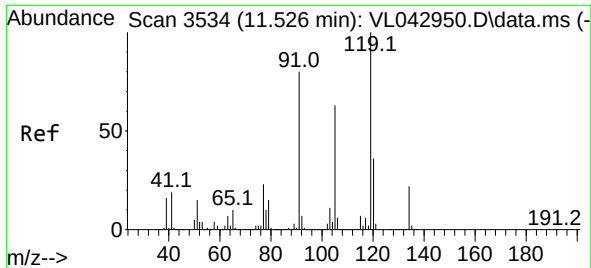
Tgt Ion:120 Resp: 230432

Ion Ratio Lower Upper

120 100

91 456.1 364.9 547.3

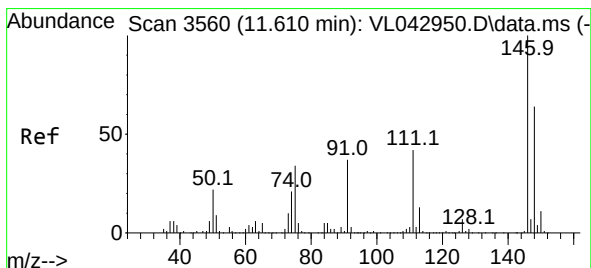
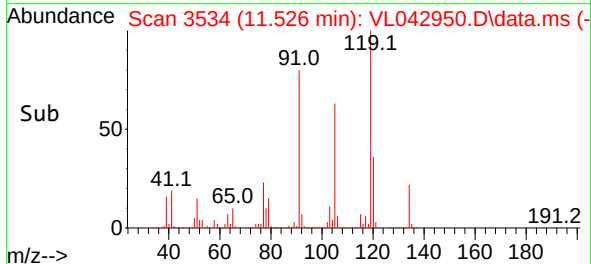
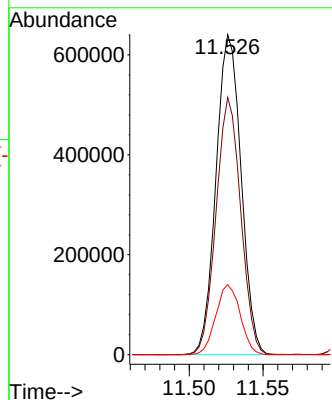
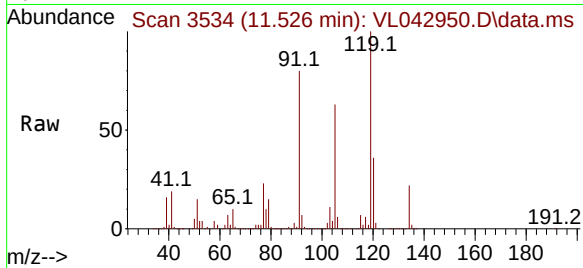




#65
tert-Butylbenzene
Concen: 9.078 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

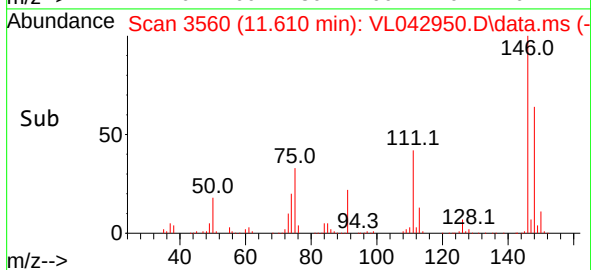
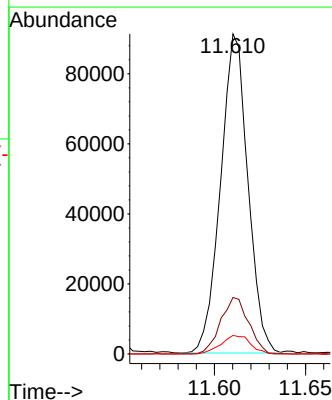
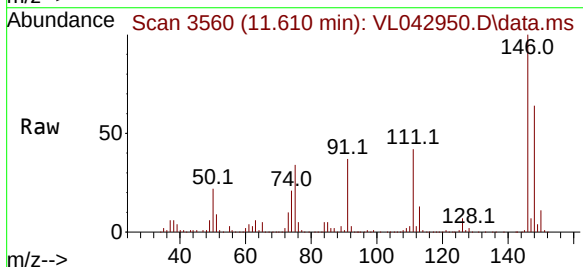
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

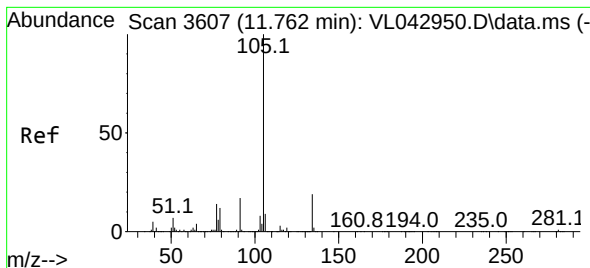
Tgt Ion:119 Resp: 757958
Ion Ratio Lower Upper
119 100
91 78.9 63.1 94.7
134 21.3 17.0 25.6



#66
Benzyl Chloride
Concen: 10.842 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 91 Resp: 94982
Ion Ratio Lower Upper
91 100
126 18.2 14.6 21.8
128 6.2 5.0 7.4





#67

sec-Butylbenzene

Concen: 9.166 ppbv

RT: 11.762 min Scan# 3607

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_L

ClientSampleId :

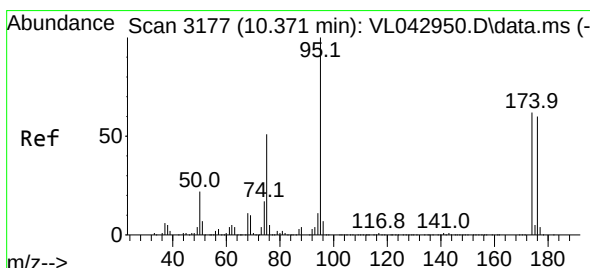
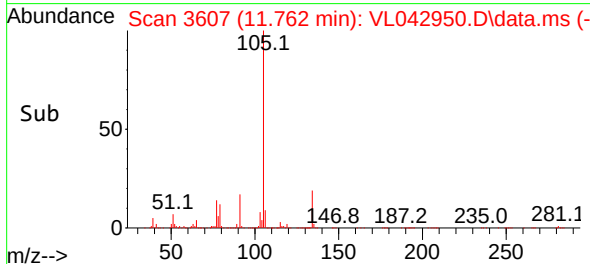
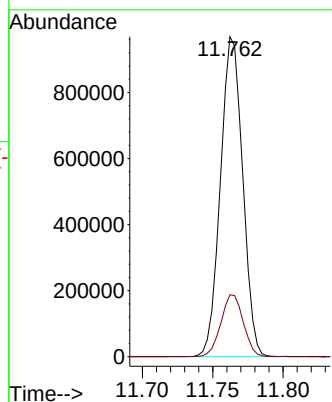
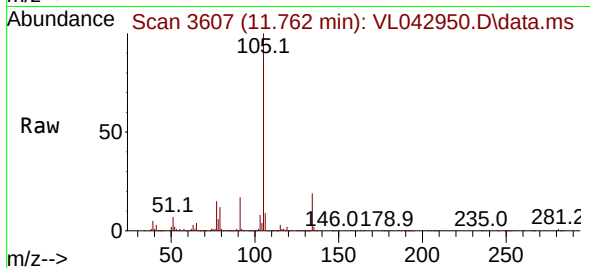
VSTDICCC010

Tgt Ion:105 Resp: 1066409

Ion Ratio Lower Upper

105 100

134 19.6 15.7 23.5



#68

1-Bromo-4-Fluorobenzene

Concen: 10.217 ppbv

RT: 10.371 min Scan# 3177

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

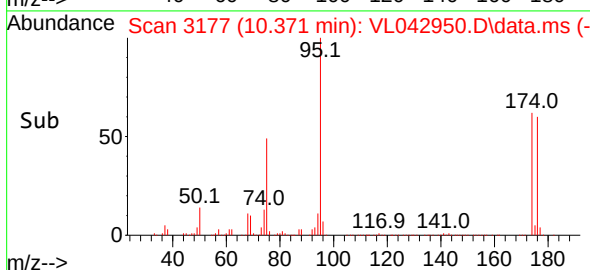
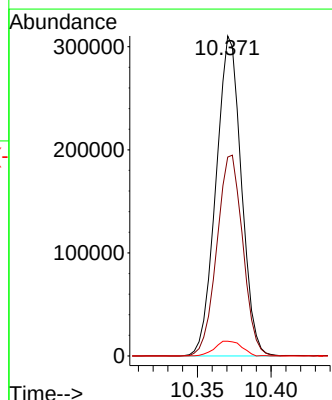
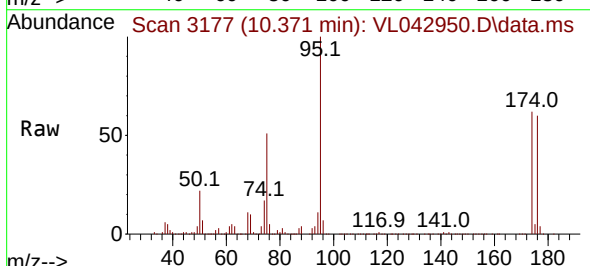
Tgt Ion: 95 Resp: 371195

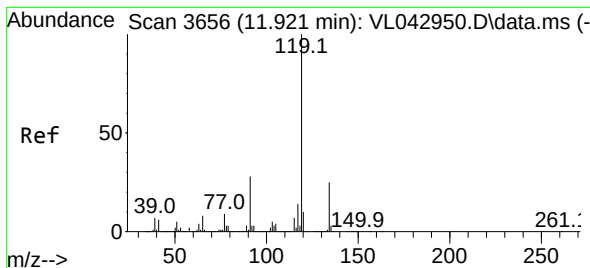
Ion Ratio Lower Upper

95 100

174 64.3 51.4 77.2

175 5.0 4.0 6.0





#69

p-Isopropyltoluene

Concen: 9.192 ppbv

RT: 11.921 min Scan# 3656

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

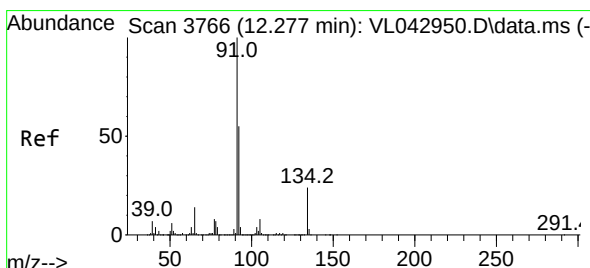
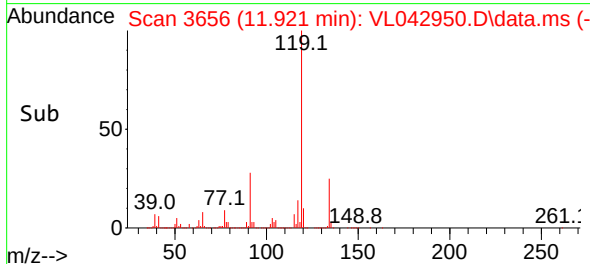
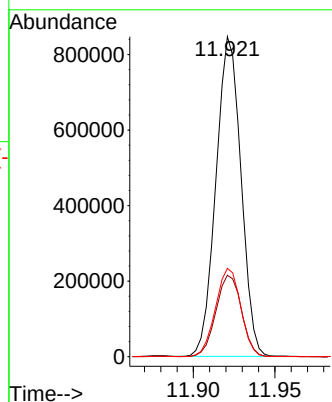
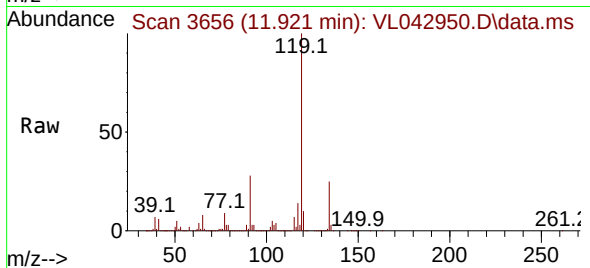
Tgt Ion:119 Resp: 903376

Ion Ratio Lower Upper

119 100

134 26.2 21.0 31.4

91 27.9 22.3 33.5



#70

n-Butylbenzene

Concen: 9.543 ppbv

RT: 12.277 min Scan# 3766

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

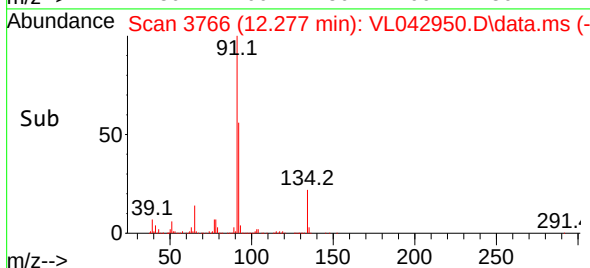
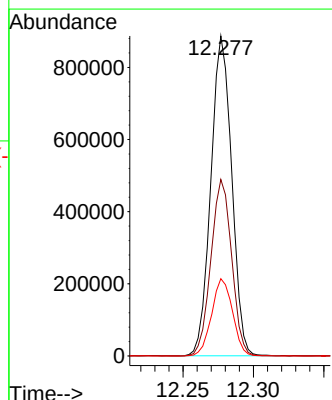
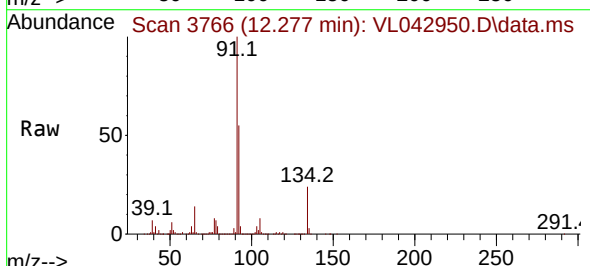
Tgt Ion: 91 Resp: 915624

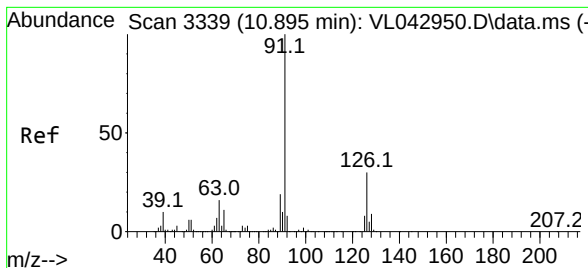
Ion Ratio Lower Upper

91 100

92 55.0 44.0 66.0

134 24.3 19.4 29.2

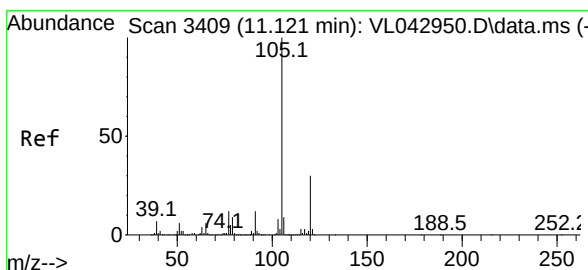
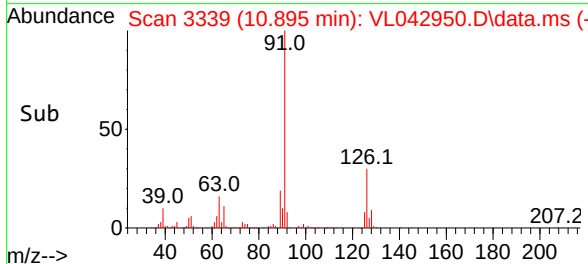
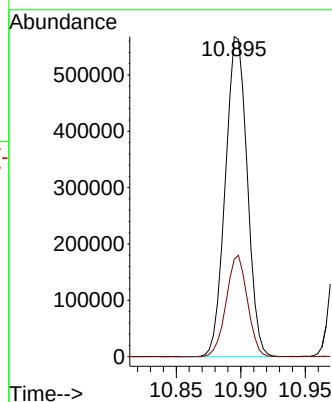
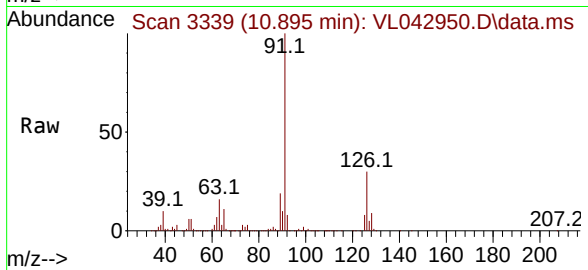




#71
2-Chlorotoluene
Concen: 9.428 ppbv
RT: 10.895 min Scan# 311
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

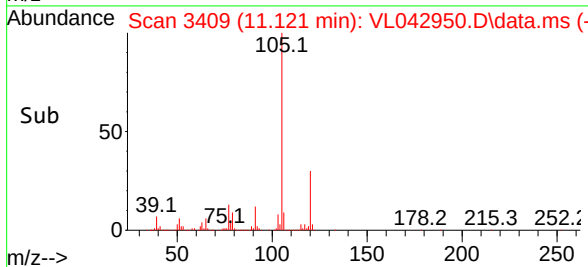
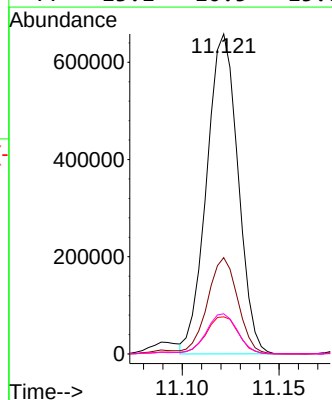
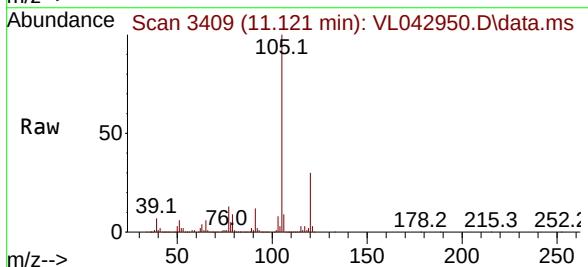
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

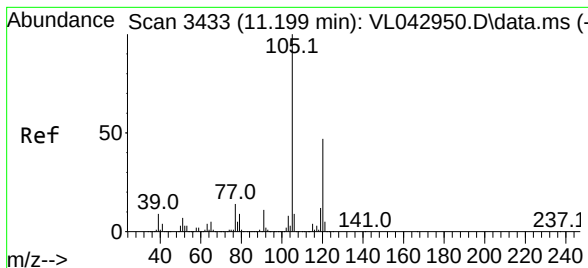
Tgt Ion: 91 Resp: 668239
Ion Ratio Lower Upper
91 100
126 30.8 12.3 49.3



#72
4-Ethyltoluene
Concen: 9.398 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion: 105 Resp: 741298
Ion Ratio Lower Upper
105 100
120 30.2 24.2 36.2
91 12.5 10.0 15.0
77 13.1 10.5 15.7





#73

1,3,5-Trimethylbenzene

Concen: 9.608 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_1

ClientSampleId :

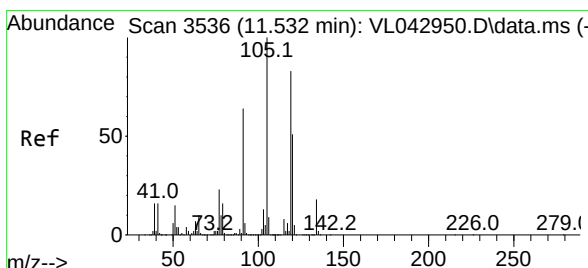
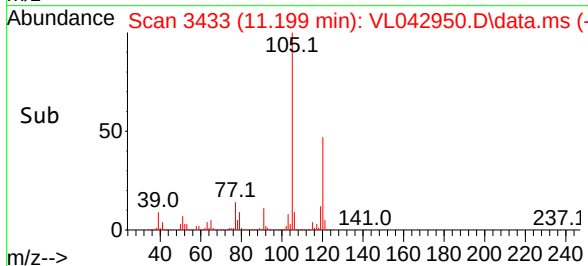
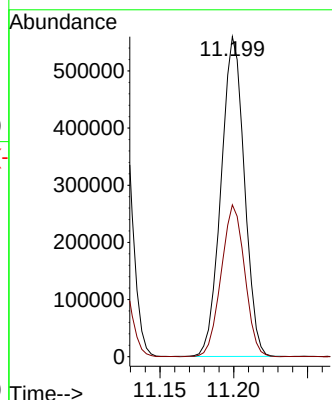
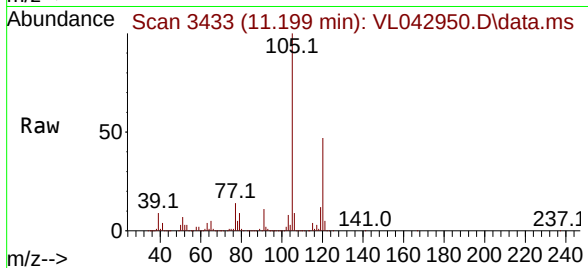
VSTDICCC010

Tgt Ion:105 Resp: 614632

Ion Ratio Lower Upper

105 100

120 47.5 38.0 57.0



#74

1,2,4-Trimethylbenzene

Concen: 9.294 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Tgt Ion:105 Resp: 656535

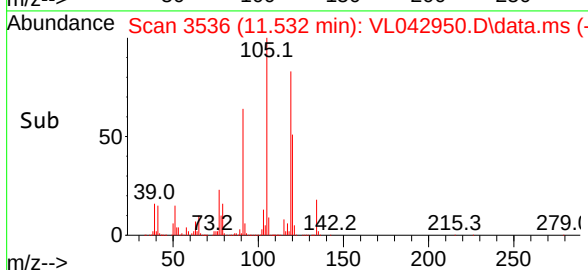
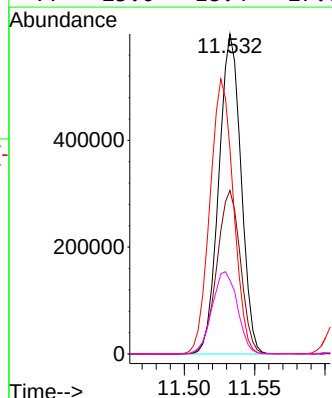
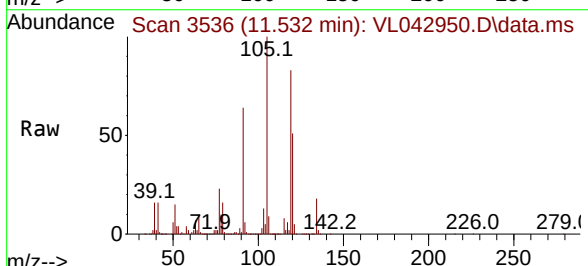
Ion Ratio Lower Upper

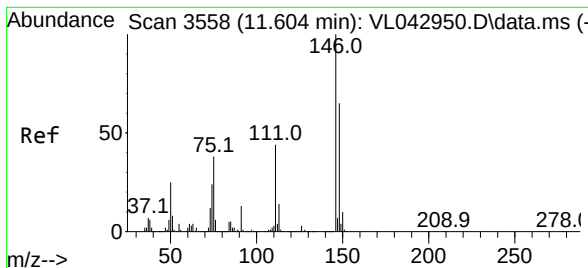
105 100

120 51.1 40.9 61.3

91 64.0 51.2 76.8

77 23.0 18.4 27.6





#75

1,3-Dichlorobenzene

Concen: 9.392 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

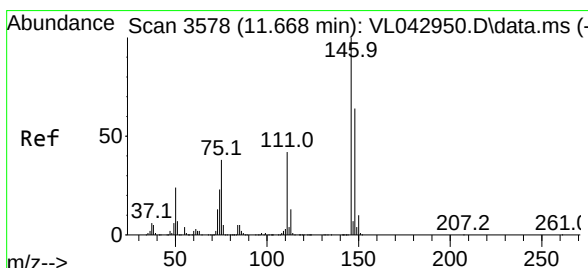
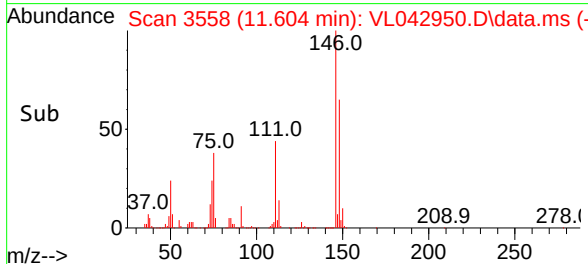
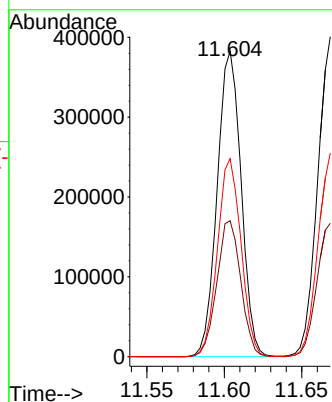
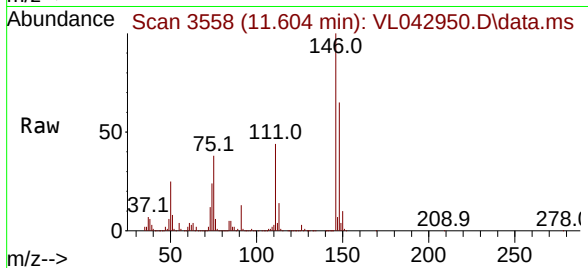
Tgt Ion:146 Resp: 411473

Ion Ratio Lower Upper

146 100

111 44.6 22.3 66.9

148 63.7 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 9.456 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. 0.000 min

Lab File: VL042950.D

Acq: 22 Sep 2025 09:39

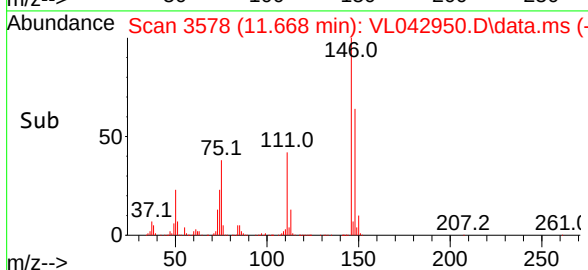
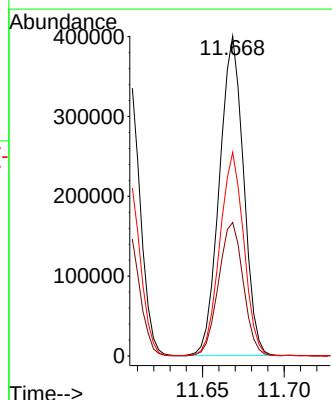
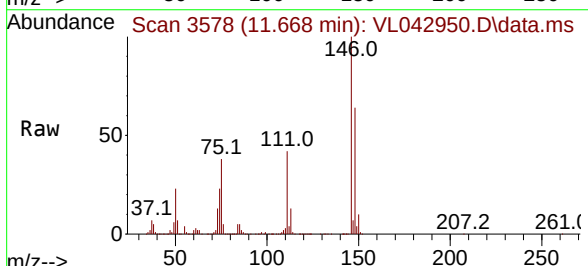
Tgt Ion:146 Resp: 411464

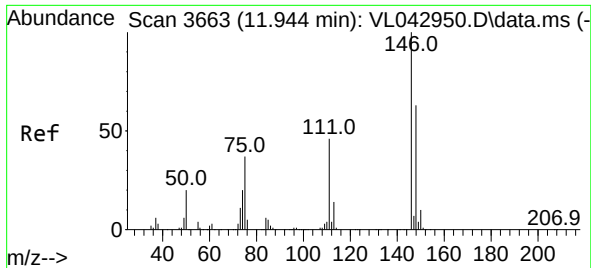
Ion Ratio Lower Upper

146 100

111 43.0 21.5 64.5

148 63.7 31.9 95.5

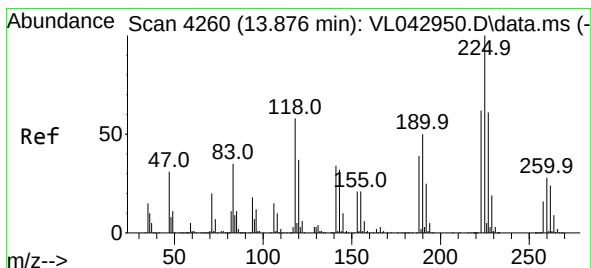
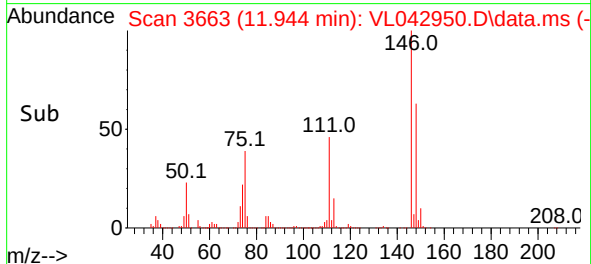
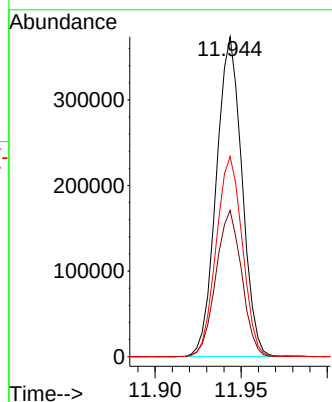
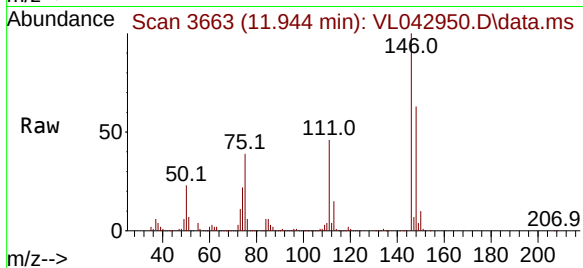




#77
1,2-Dichlorobenzene
Concen: 9.289 ppbv
RT: 11.944 min Scan# 3663
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

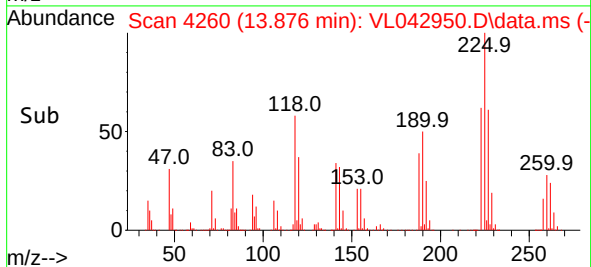
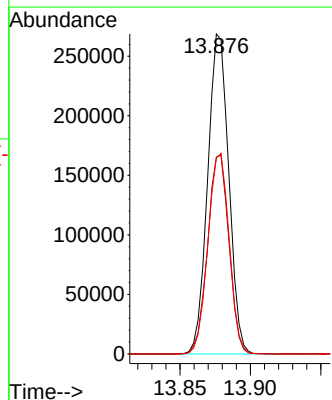
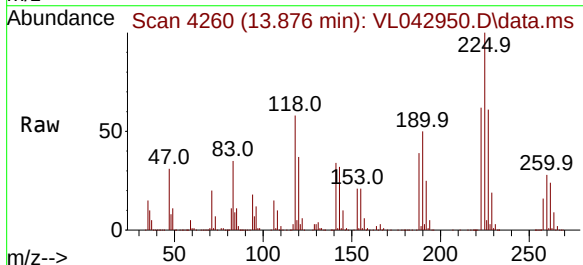
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

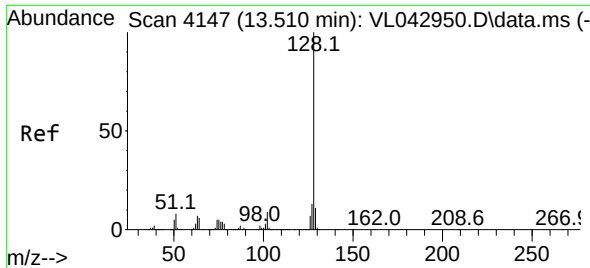
Tgt Ion:146 Resp: 387219
Ion Ratio Lower Upper
146 100
111 46.2 23.1 69.3
148 64.0 32.0 96.0



#78
Hexachloro-1,3-Butadiene
Concen: 8.591 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion:225 Resp: 280080
Ion Ratio Lower Upper
225 100
223 62.6 50.1 75.1
227 63.0 50.4 75.6

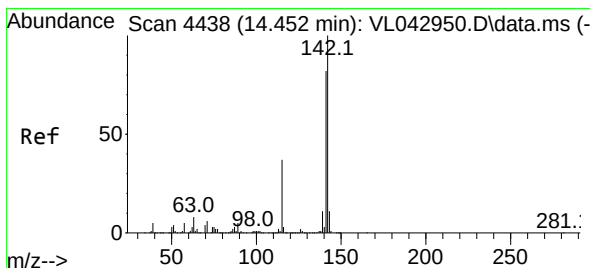
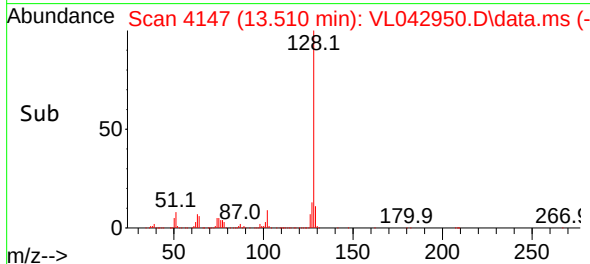
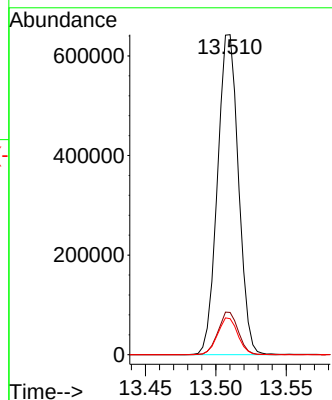
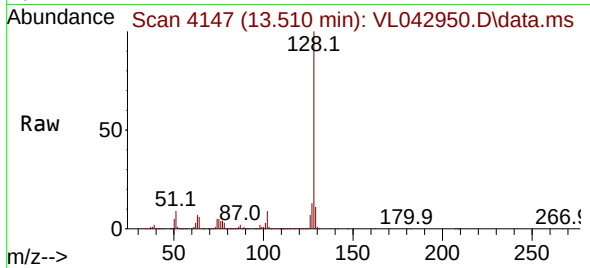




#79
Naphthalene
Concen: 10.696 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

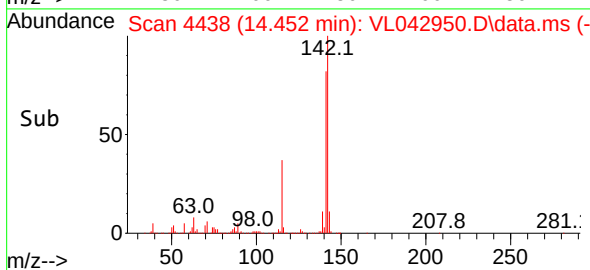
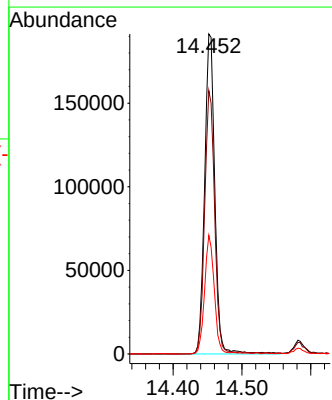
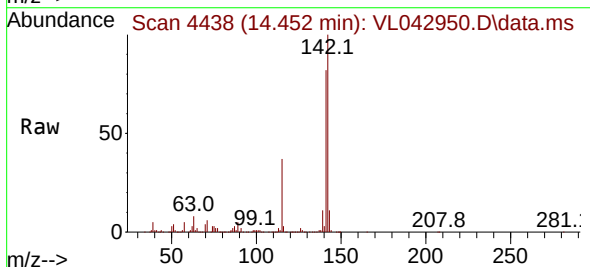
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

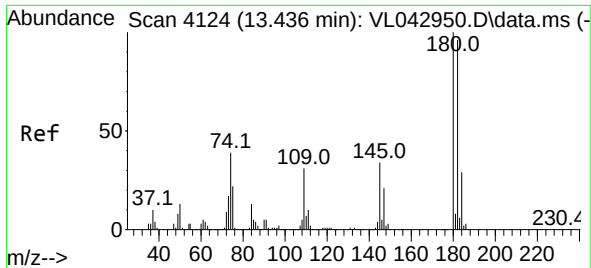
Tgt Ion:128 Resp: 668171
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 11.3 9.0 13.6



#80
Naphthalene, 2-methyl-
Concen: 10.142 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. 0.000 min
Lab File: VL042950.D
Acq: 22 Sep 2025 09:39

Tgt Ion:142 Resp: 195695
Ion Ratio Lower Upper
142 100
141 81.4 65.1 97.7
115 36.1 28.9 43.3

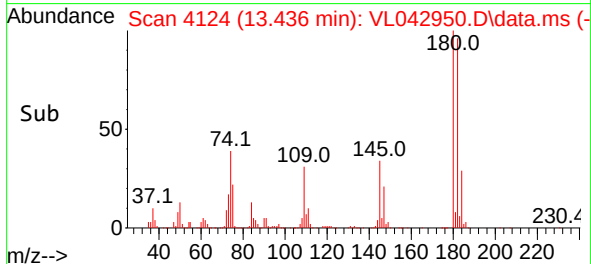
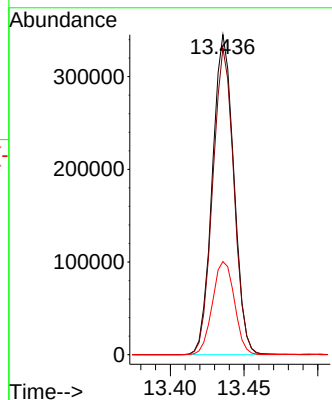
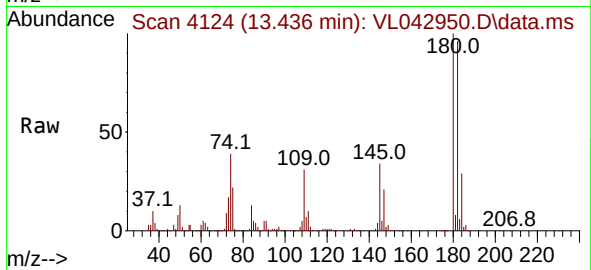




#81
 1,2,4-Trichlorobenzene
 Concen: 10.461 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042950.D
 Acq: 22 Sep 2025 09:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion:180 Resp: 349393
 Ion Ratio Lower Upper
 180 100
 182 94.6 75.7 113.5
 184 29.9 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042951.D
 Acq On : 22 Sep 2025 10:14
 Operator : SY/MD
 Sample : VSTDIC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Quant Time: Sep 23 02:09:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	170758	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	524389	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	483821	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	361586	10.012	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	47851	2.083	ppbv	97
3) Chlorodifluoromethane	1.476	51	58395	2.040	ppbv	95
4) Chloromethane	1.534	50	21326	2.051	ppbv	99
5) Vinyl Chloride	1.580	62	17892	1.904	ppbv	98
6) Bromomethane	1.667	94	6816	2.056	ppbv	96
7) Chloroethane	1.706	64	7250	1.987	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	40306	2.056	ppbv	98
9) Propene	1.483	41	26007	2.088	ppbv	99
10) Heptane	4.978	43	66978	2.005	ppbv	99
11) Trichlorofluoromethane	1.877	101	45973	2.076	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.140	101	36490	2.035	ppbv	98
13) Ethanol	1.722	45	2989	2.504	ppbv	93
14) Bromoethene	1.784	108	14189	2.093	ppbv #	96
15) Acetone	1.835	43	50357	2.264	ppbv	99
16) 1,3-Butadiene	1.609	39	20729	1.976	ppbv	94
17) tert-Butyl alcohol	2.042	59	47749	1.957	ppbv #	93
18) 1,1-Dichloroethene	2.036	96	16572	1.996	ppbv	95
19) Isopropyl Alcohol	1.887	45	27930	2.089	ppbv #	79
20) Methylene Chloride	2.062	84	17413	2.097	ppbv #	84
21) Allyl Chloride	2.098	41	32985	2.130	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	18991	2.013	ppbv	98
23) Vinyl Acetate	2.463	43	64479	2.029	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	37865	2.047	ppbv	99
25) Ethyl Acetate	2.835	43	117567	2.092	ppbv	99
26) Hexane	2.826	57	53034	2.070	ppbv	98
27) Carbon Disulfide	2.153	76	47660	2.074	ppbv #	60
28) Methyl tert-Butyl Ether	2.441	73	25348	1.903	ppbv	92
29) Chloroform	2.848	83	69599	2.077	ppbv	96
30) Cyclohexane	3.855	84	43725	2.041	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	50019	2.084	ppbv	95
32) 1,1,1-Trichloroethane	3.366	97	70729	1.948	ppbv	97
34) 2-Butanone	2.557	43	77689	2.114	ppbv	98
35) Carbon Tetrachloride	3.761	117	68858	2.041	ppbv	95
36) Benzene	3.658	78	101901	2.069	ppbv	97
37) 1,2-Dichloroethane	3.217	62	53130	2.052	ppbv	98
38) Trichloroethene	4.548	130	47424	1.938	ppbv	94
39) 1,2-Dichloropropane	4.308	63	22120	1.230	ppbv	96
40) 1,4-Dioxane	4.586	88	15831	1.895	ppbv #	77
41) Tetrahydrofuran	3.056	42	43962	2.081	ppbv	98
42) Bromodichloromethane	4.486	83	73675	2.042	ppbv	98
43) Methyl Methacrylate	4.881	69	41527	2.077	ppbv	99
44) 2,2,4-Trimethylpentane	4.638	57	177242	2.083	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	44171	2.055	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042951.D
 Acq On : 22 Sep 2025 10:14
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

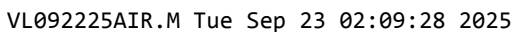
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

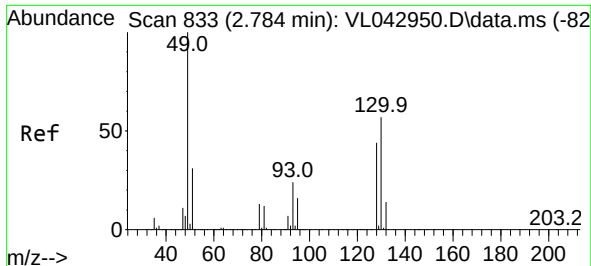
Quant Time: Sep 23 02:09:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	56335	2.057	ppbv	97
47) 1,1,2-Trichloroethane	6.577	97	20092	1.057	ppbv	92
48) Dibromochloromethane	7.383	129	62968	2.072	ppbv	98
49) Bromoform	9.480	173	56021	2.119	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	44119	0.893	ppbv #	16
51) 2-Hexanone	7.438	43	80620	2.053	ppbv	99
52) Tetrachloroethene	8.224	164	36853	1.934	ppbv	94
53) Toluene	6.933	91	121268	2.081	ppbv	100
54) 1,2-Dibromoethane	7.652	107	55022	2.058	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.920	131	48901	2.112	ppbv	98
57) Chlorobenzene	8.924	112	91325	2.068	ppbv	94
58) Ethyl Benzene	9.354	91	168063	2.115	ppbv	99
59) m/p-Xylene	9.532	91	130749	2.086	ppbv #	100
60) o-Xylene	9.963	91	131507	2.101	ppbv	98
61) Styrene	9.869	104	62748	2.119	ppbv	98
62) Isopropylbenzene	10.539	105	196198	2.103	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	65089	1.978	ppbv	98
64) n-propylbenzene	10.985	120	50569	2.074	ppbv	93
65) tert-Butylbenzene	11.529	119	178218	2.147	ppbv	98
66) Benzyl Chloride	11.613	91	18992	2.181	ppbv	98
67) sec-Butylbenzene	11.765	105	249510	2.158	ppbv	100
69) p-Isopropyltoluene	11.924	119	210808	2.158	ppbv	97
70) n-Butylbenzene	12.280	91	206691	2.167	ppbv	100
71) 2-Chlorotoluene	10.898	91	147901	2.099	ppbv	100
72) 4-Ethyltoluene	11.124	105	164770	2.102	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	135344	2.128	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	150772	2.147	ppbv	98
75) 1,3-Dichlorobenzene	11.607	146	92487	2.124	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	92794	2.145	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	88825	2.144	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	70481	2.175	ppbv	99
79) Naphthalene	13.510	128	142653	2.297	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	41369	2.157	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	75139	2.263	ppbv	99

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

Quant Time: Sep 23 02:09:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

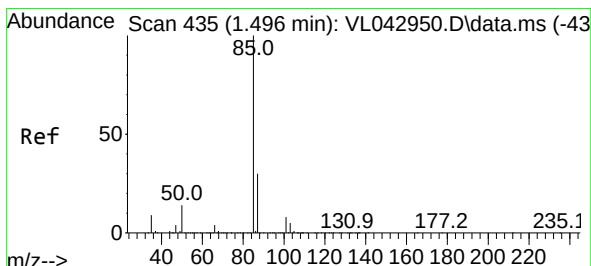
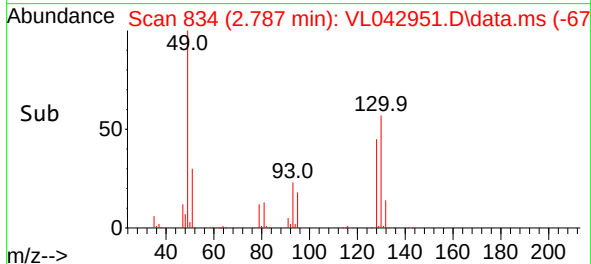
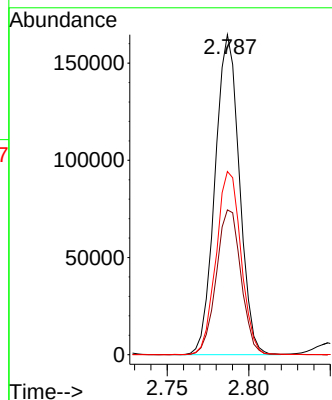
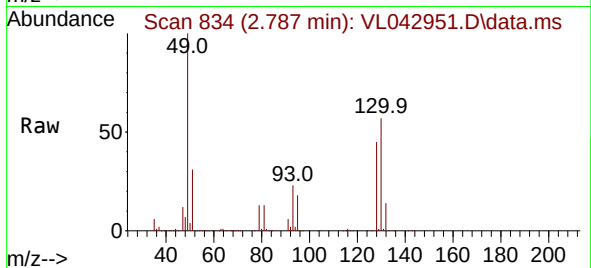




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

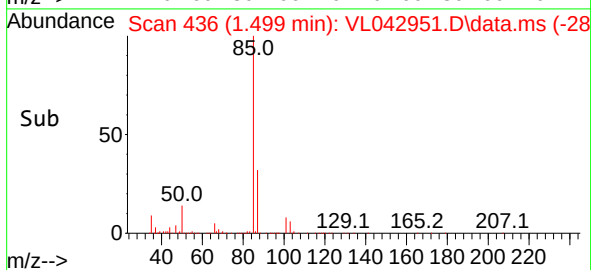
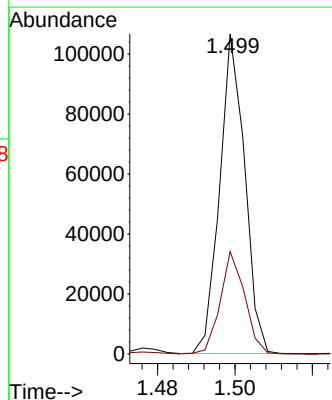
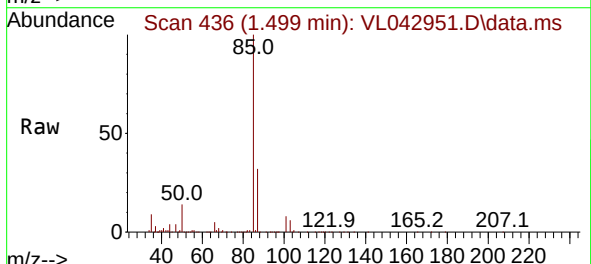
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

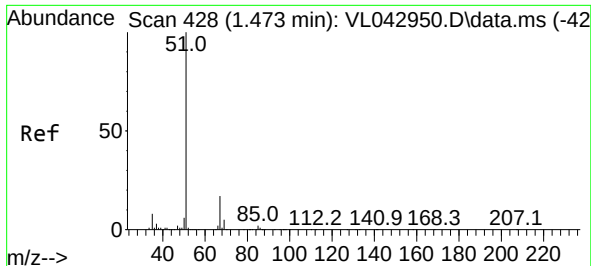
Tgt Ion: 49 Resp: 170758
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.8
130 58.5 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 2.083 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion: 85 Resp: 47851
Ion Ratio Lower Upper
85 100
87 32.0 24.3 36.5

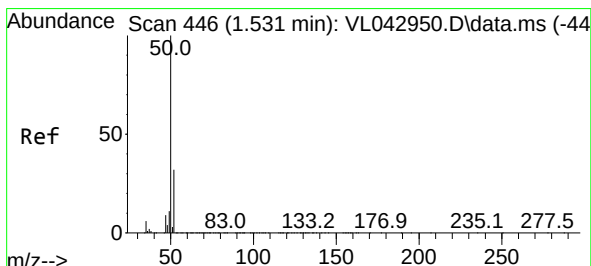
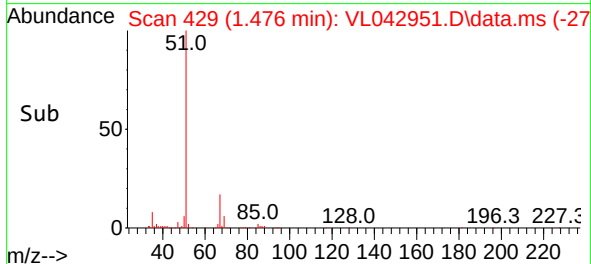
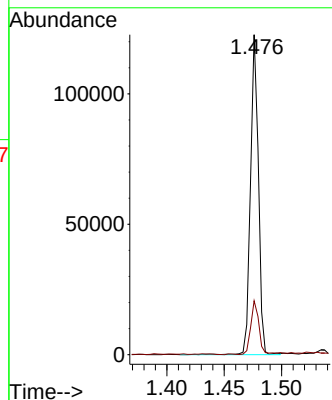
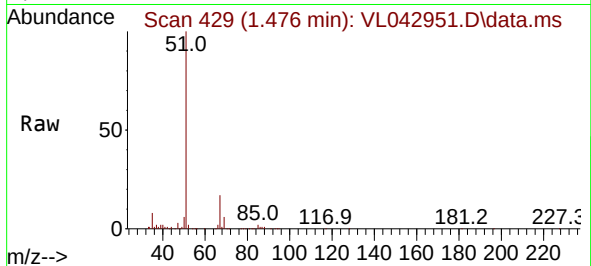




#3
Chlorodifluoromethane
Concen: 2.040 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

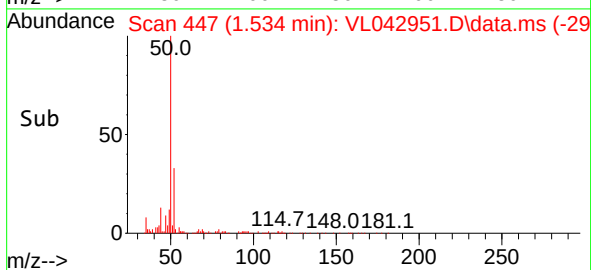
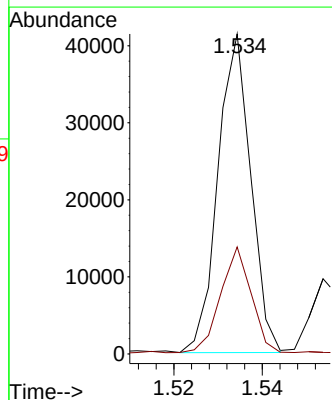
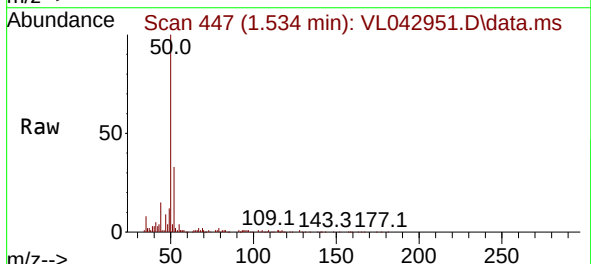
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

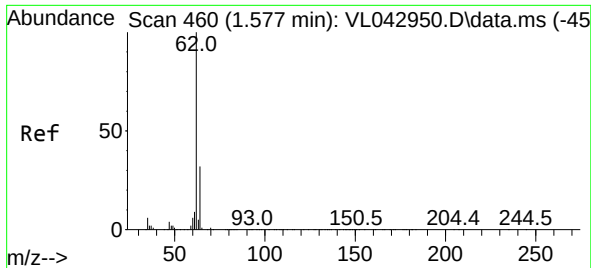
Tgt Ion: 51 Resp: 58395
Ion Ratio Lower Upper
51 100
67 19.4 13.8 20.8



#4
Chloromethane
Concen: 2.051 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion: 50 Resp: 21326
Ion Ratio Lower Upper
50 100
52 33.2 25.9 38.9

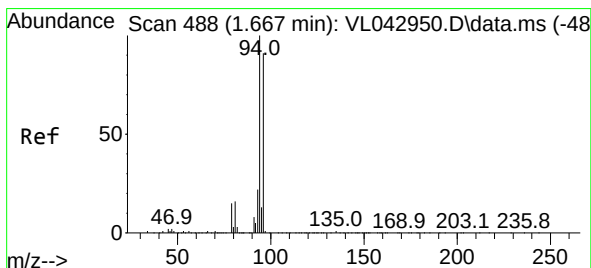
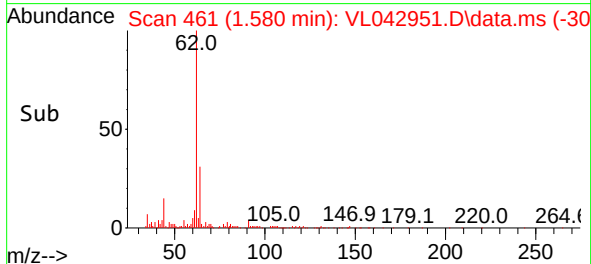
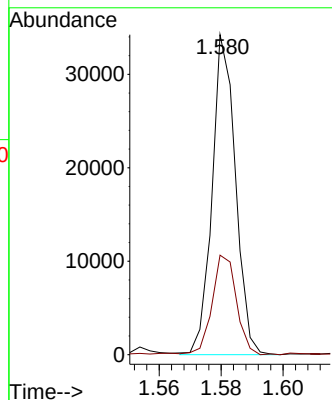
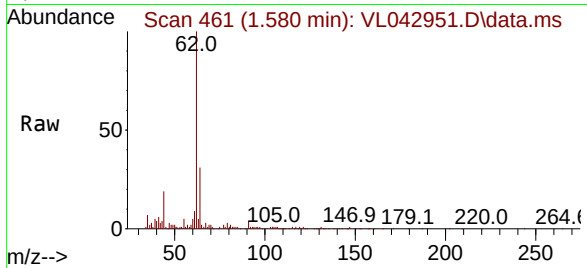




#5
 Vinyl Chloride
 Concen: 1.904 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

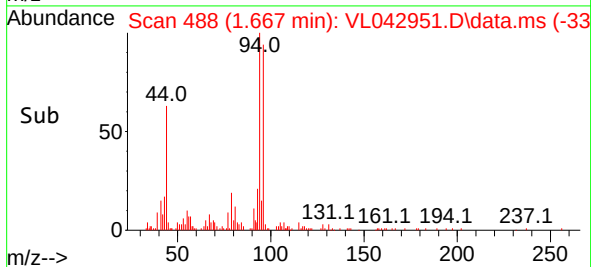
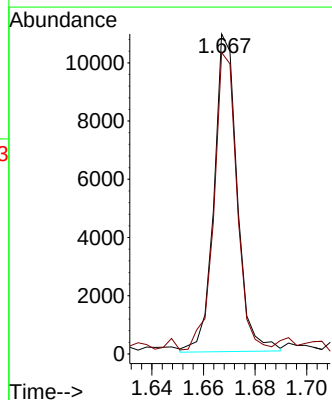
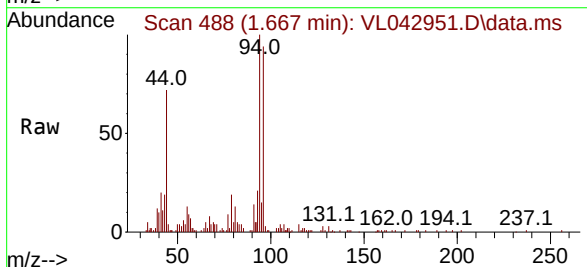
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

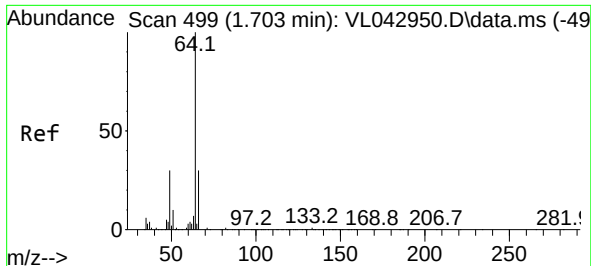
Tgt Ion: 62 Resp: 17892
 Ion Ratio Lower Upper
 62 100
 64 30.8 25.4 38.2



#6
 Bromomethane
 Concen: 2.056 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

Tgt Ion: 94 Resp: 6816
 Ion Ratio Lower Upper
 94 100
 96 94.4 72.6 108.8

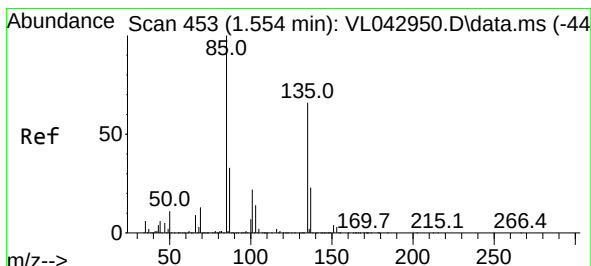
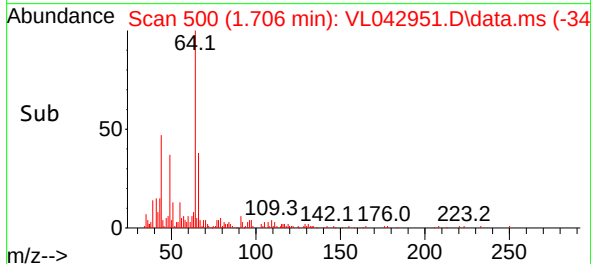
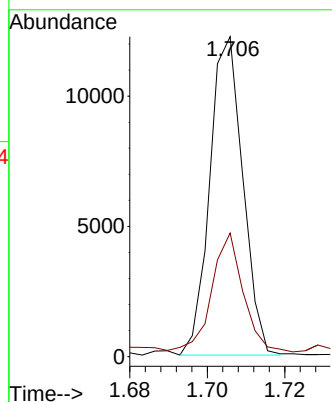
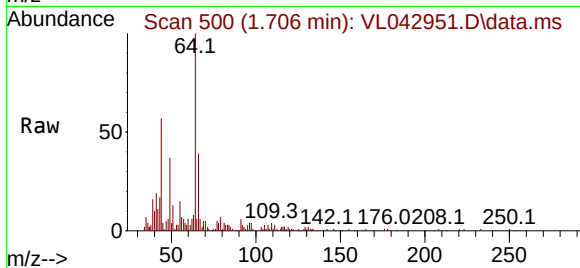




#7
Chloroethane
Concen: 1.987 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

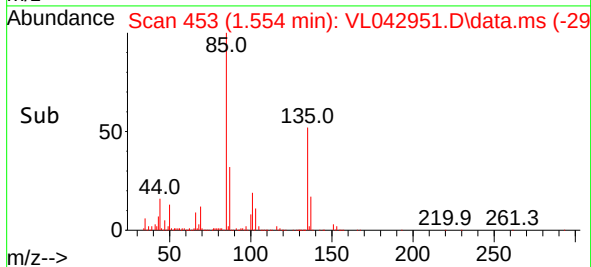
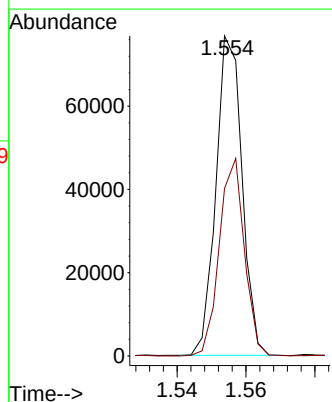
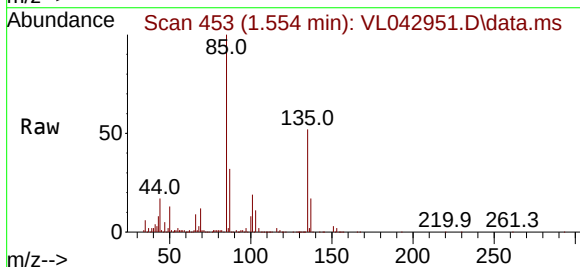
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

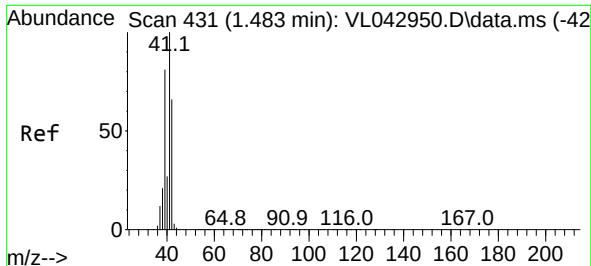
Tgt Ion: 64 Resp: 7250
Ion Ratio Lower Upper
64 100
66 38.7 24.6 36.8#



#8
Dichlorotetrafluoroethane
Concen: 2.056 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion: 85 Resp: 40306
Ion Ratio Lower Upper
85 100
135 60.2 49.7 74.5





#9

Propene

Concen: 2.088 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

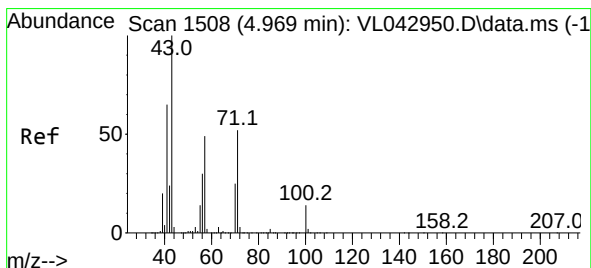
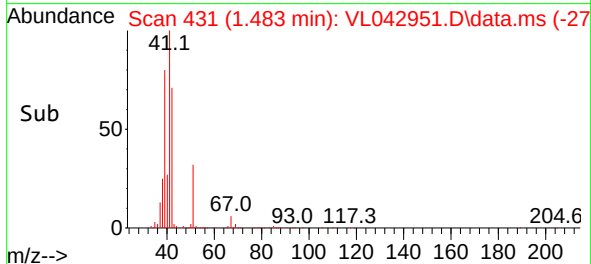
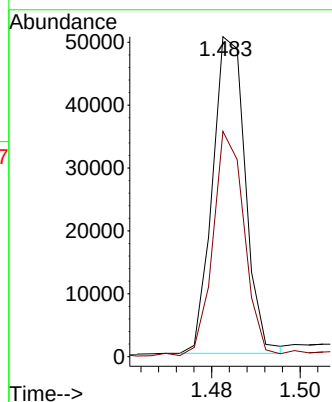
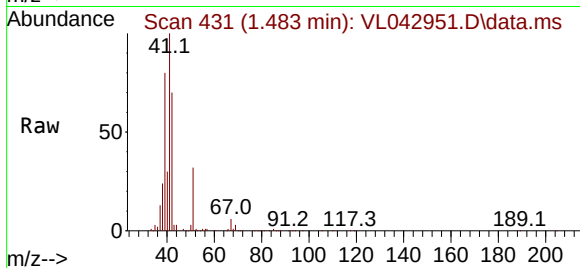
VSTDIC002

Tgt Ion: 41 Resp: 26007

Ion Ratio Lower Upper

41 100

42 72.4 57.4 86.2



#10

Heptane

Concen: 2.005 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.010 min

Lab File: VL042951.D

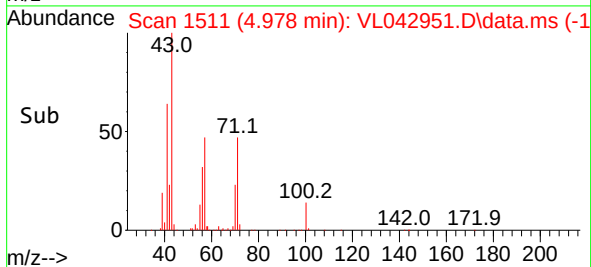
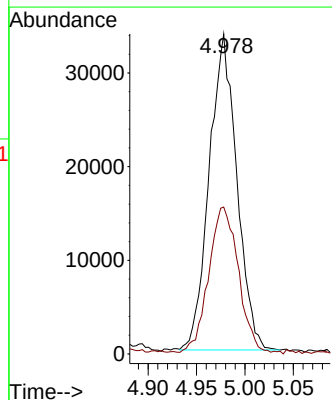
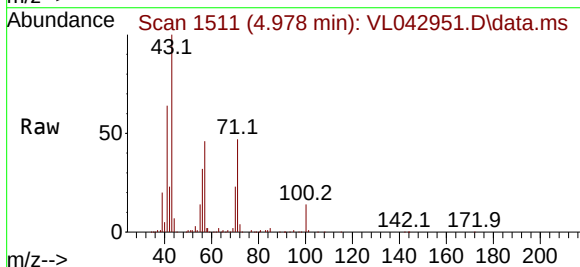
Acq: 22 Sep 2025 10:14

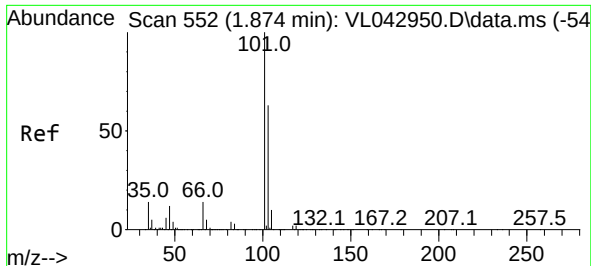
Tgt Ion: 43 Resp: 66978

Ion Ratio Lower Upper

43 100

57 49.1 38.6 57.8

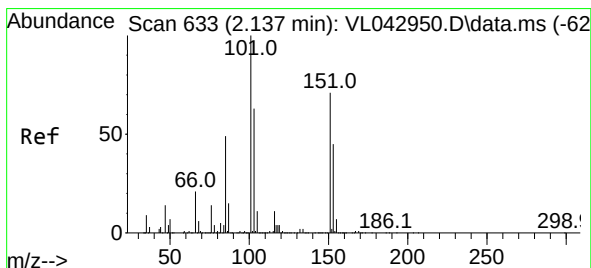
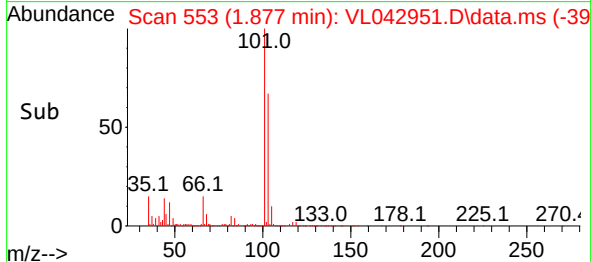
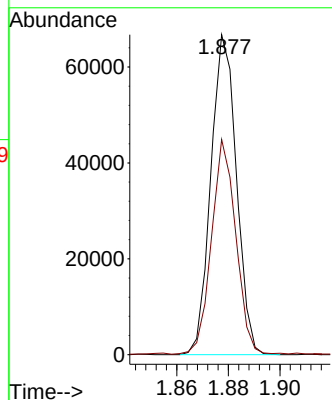
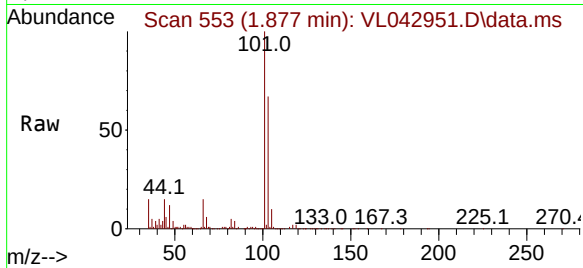




#11
 Trichlorofluoromethane
 Concen: 2.076 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

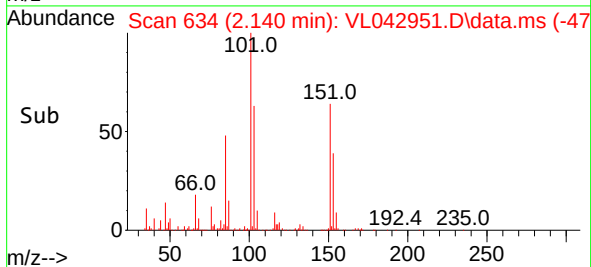
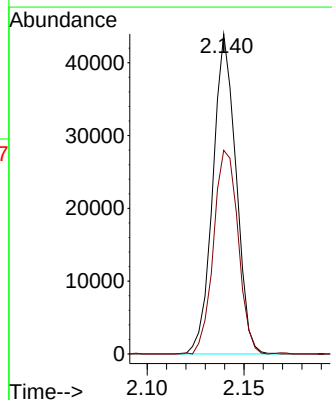
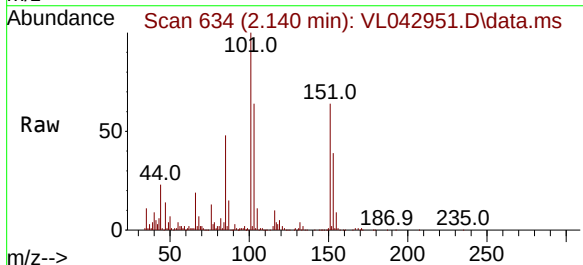
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

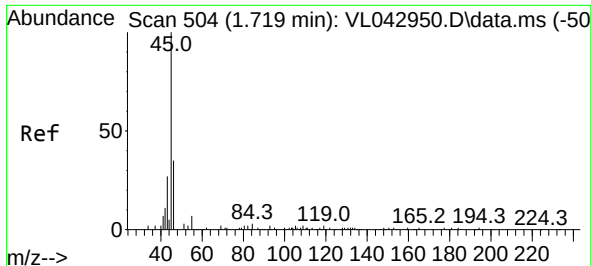
Tgt Ion:101 Resp: 45973
 Ion Ratio Lower Upper
 101 100
 103 66.9 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.035 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

Tgt Ion:101 Resp: 36490
 Ion Ratio Lower Upper
 101 100
 151 67.9 55.7 83.5

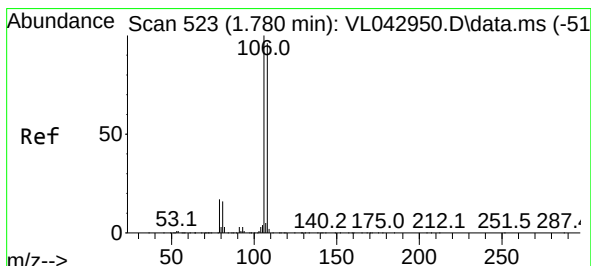
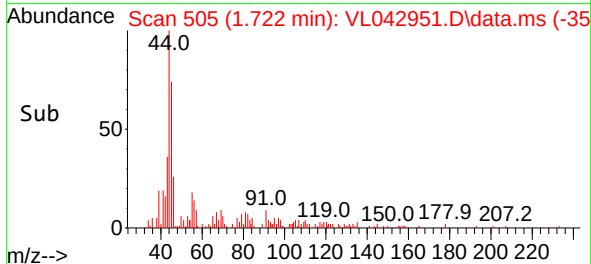
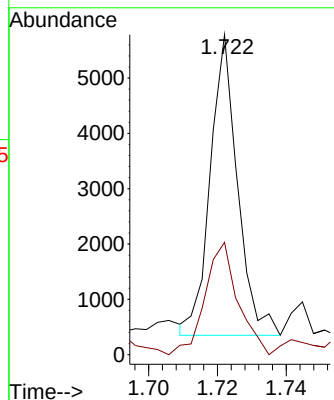
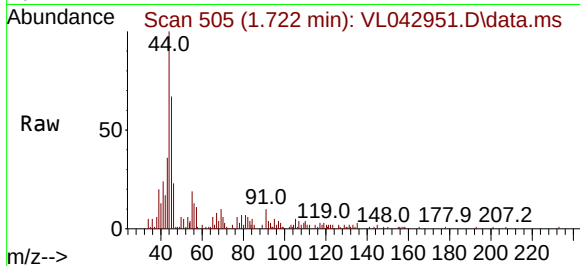




#13
 Ethanol
 Concen: 2.504 ppbv
 RT: 1.722 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

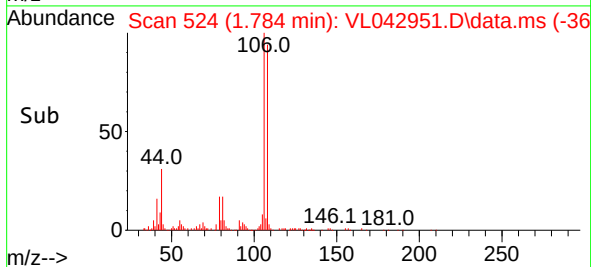
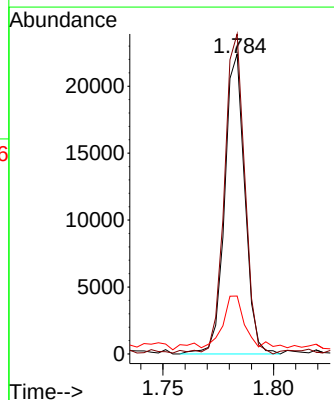
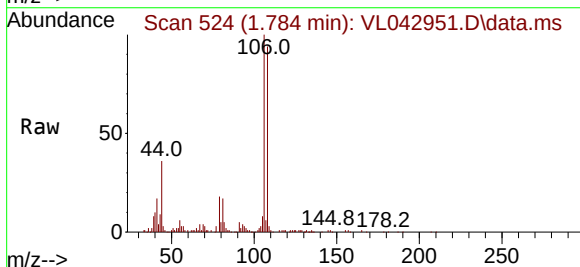
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

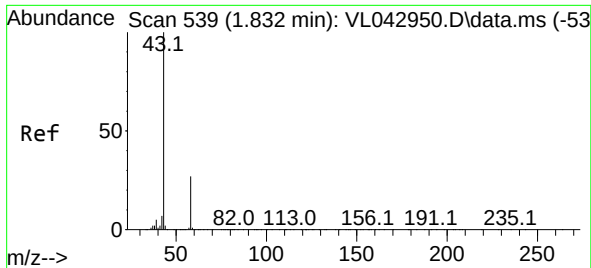
Tgt Ion: 45 Resp: 2989
 Ion Ratio Lower Upper
 45 100
 46 36.0 16.2 64.6



#14
 Bromoethene
 Concen: 2.093 ppbv
 RT: 1.784 min Scan# 524
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

Tgt Ion: 108 Resp: 14189
 Ion Ratio Lower Upper
 108 100
 106 109.5 86.0 129.0
 79 26.5 14.2 21.2#





#15

Acetone

Concen: 2.264 ppbv

RT: 1.835 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

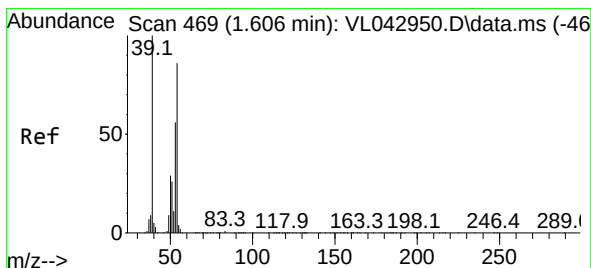
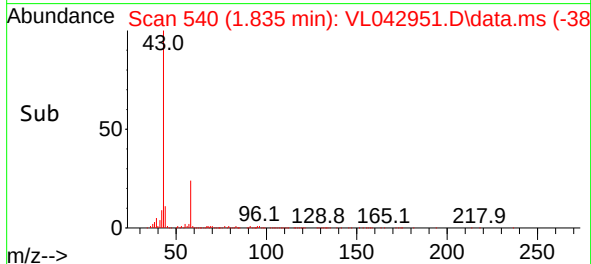
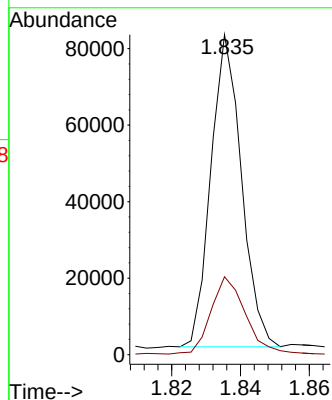
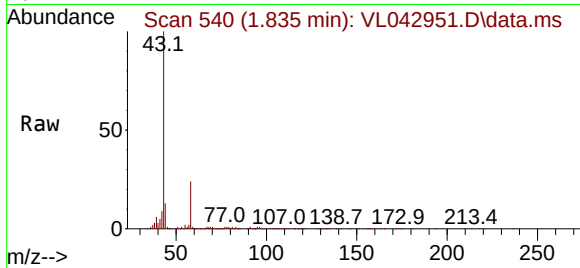
VSTDICC002

Tgt Ion: 43 Resp: 50357

Ion Ratio Lower Upper

43 100

58 28.5 22.3 33.5



#16

1,3-Butadiene

Concen: 1.976 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.003 min

Lab File: VL042951.D

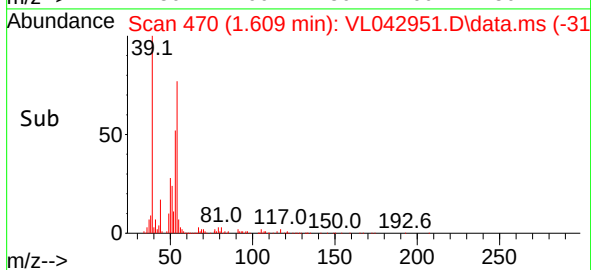
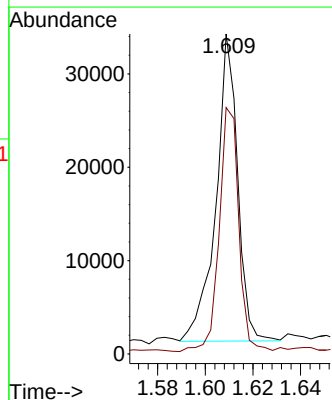
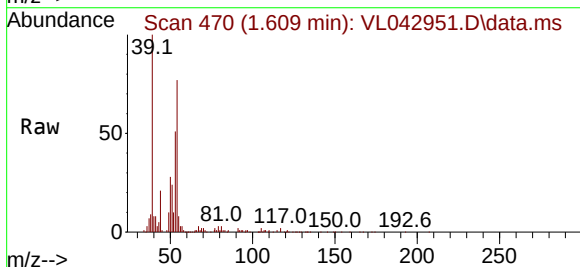
Acq: 22 Sep 2025 10:14

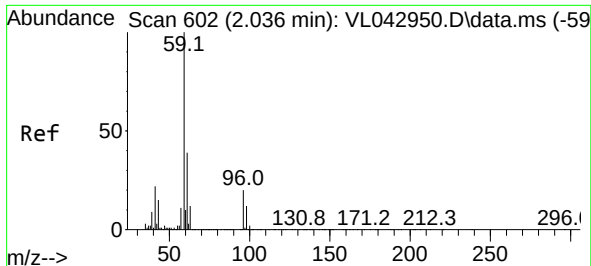
Tgt Ion: 39 Resp: 20729

Ion Ratio Lower Upper

39 100

54 80.8 60.8 91.2





#17

tert-Butyl alcohol

Concen: 1.957 ppbv

RT: 2.042 min Scan# 604

Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_1

ClientSampleId :

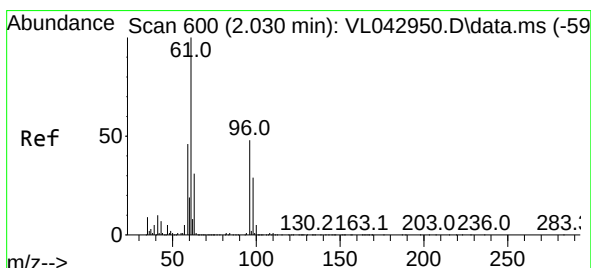
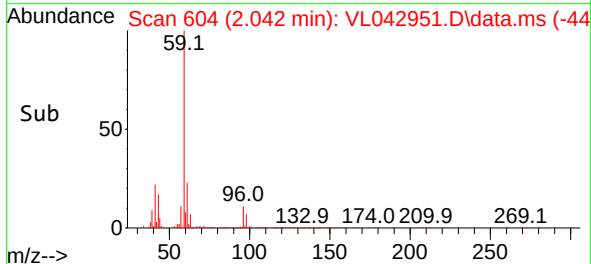
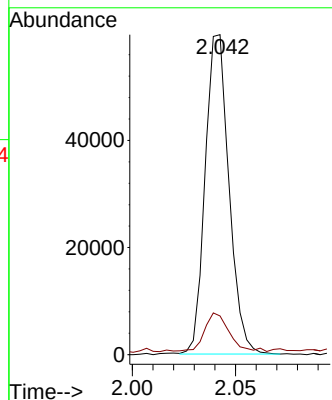
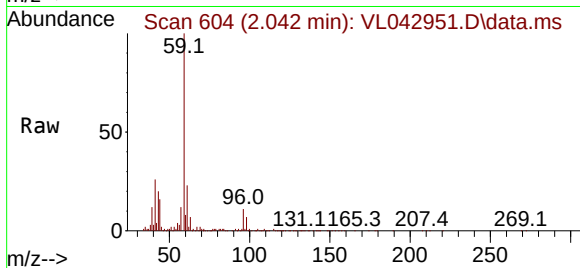
VSTDIC002

Tgt Ion: 59 Resp: 47749

Ion Ratio Lower Upper

59 100

57 13.4 8.6 12.8#



#18

1,1-Dichloroethene

Concen: 1.996 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

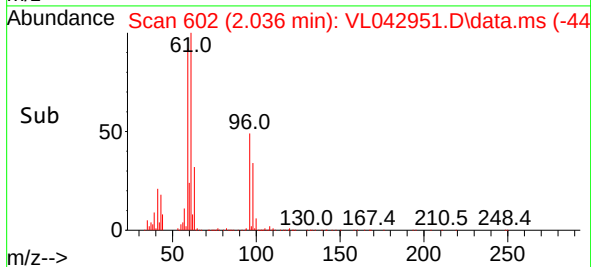
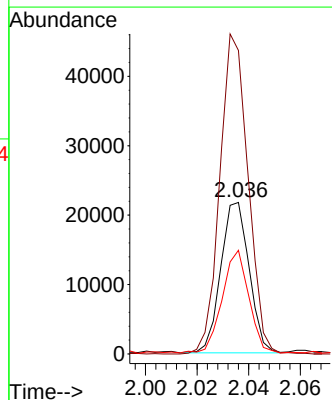
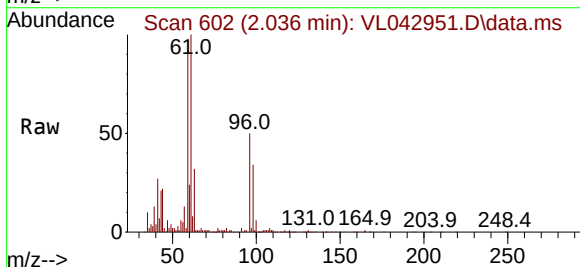
Tgt Ion: 96 Resp: 16572

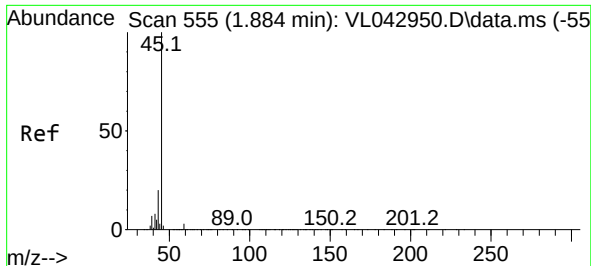
Ion Ratio Lower Upper

96 100

61 201.8 166.2 249.4

98 68.2 48.6 73.0

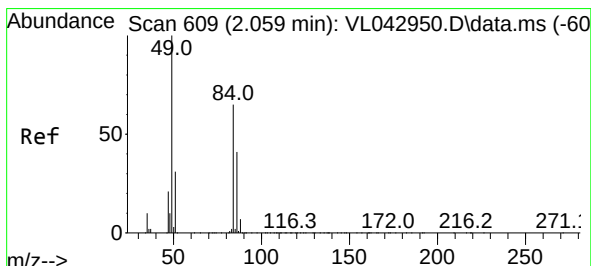
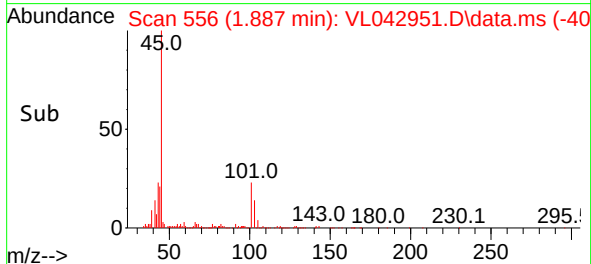
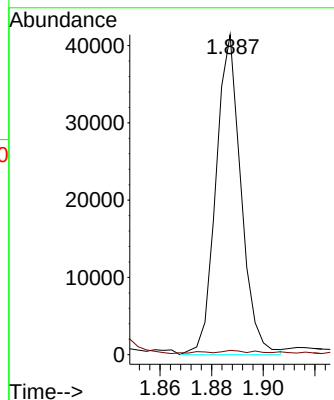
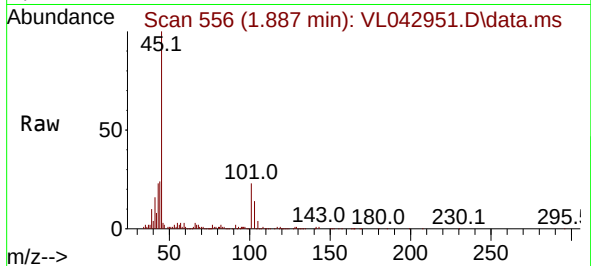




#19
Isopropyl Alcohol
Concen: 2.089 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

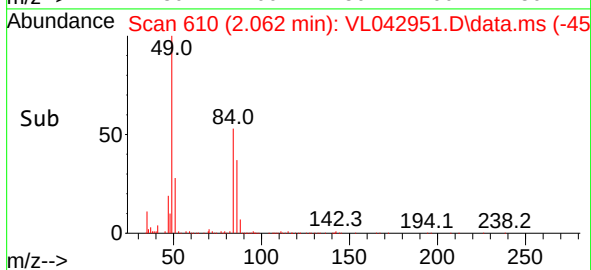
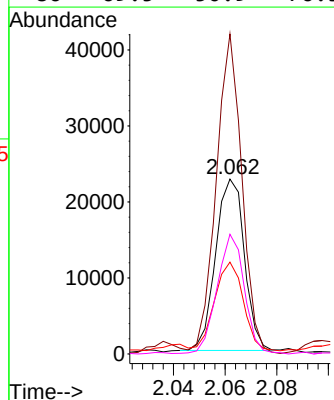
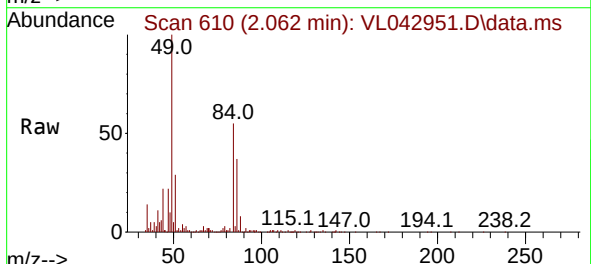
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

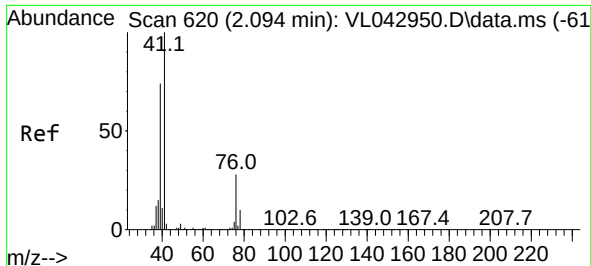
Tgt Ion: 45 Resp: 27930
Ion Ratio Lower Upper
45 100
58 51.6 31.0 46.6#



#20
Methylene Chloride
Concen: 2.097 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion: 84 Resp: 17413
Ion Ratio Lower Upper
84 100
49 186.6 124.1 186.1#
51 51.7 39.8 59.8
86 69.5 50.9 76.3

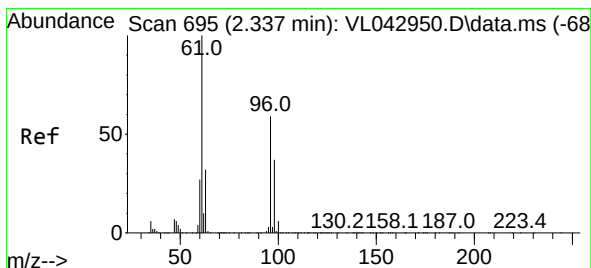
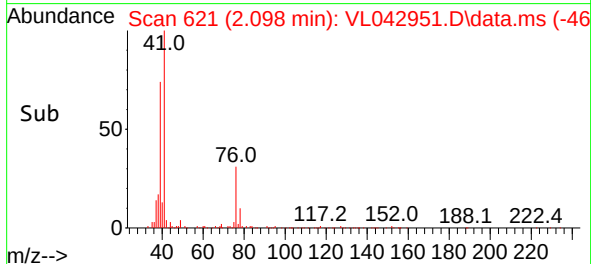
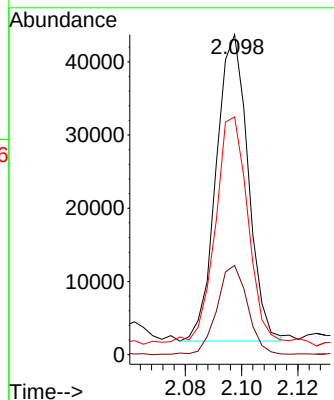
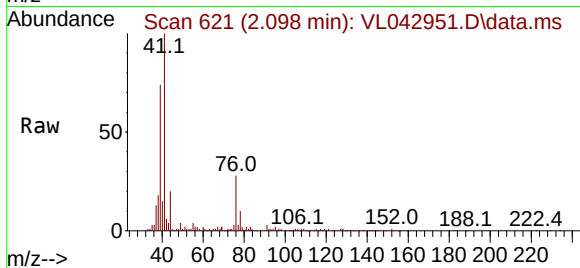




#21
 Allyl Chloride
 Concen: 2.130 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

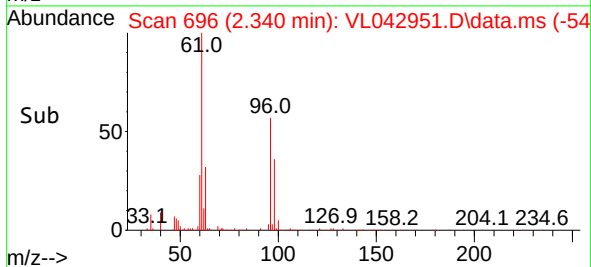
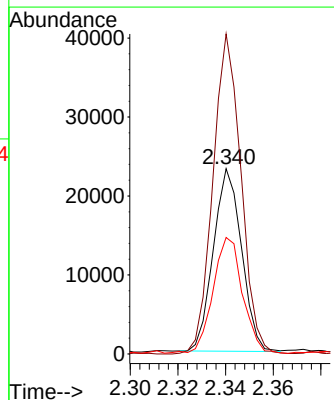
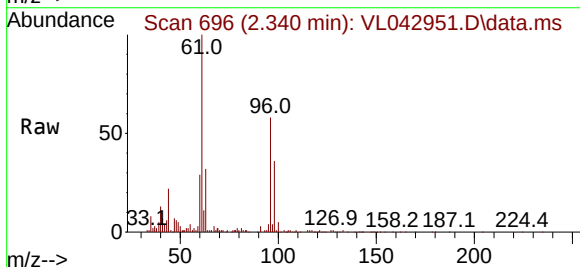
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

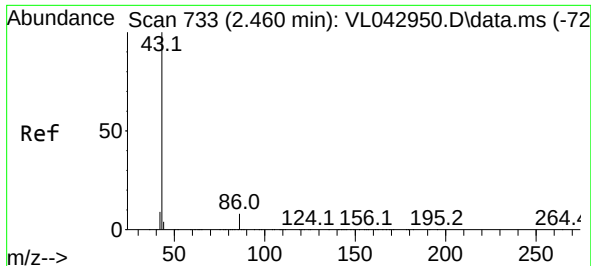
Tgt Ion: 41 Resp: 32985
 Ion Ratio Lower Upper
 41 100
 76 27.9 22.3 33.5
 39 76.0 61.3 91.9



#22
 trans-1,2-Dichloroethene
 Concen: 2.013 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

Tgt Ion: 96 Resp: 18991
 Ion Ratio Lower Upper
 96 100
 61 175.1 136.5 204.7
 98 63.3 50.6 76.0

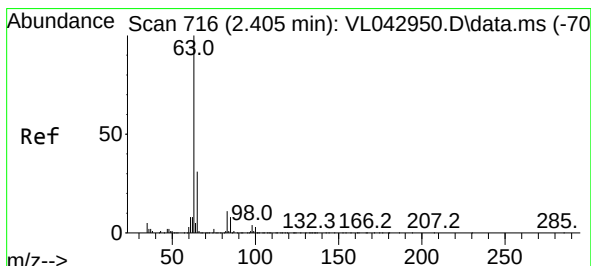
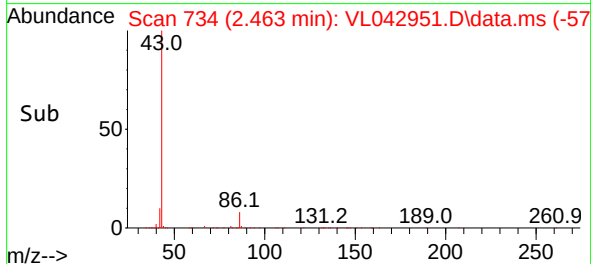
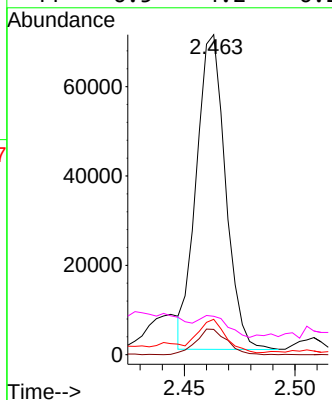
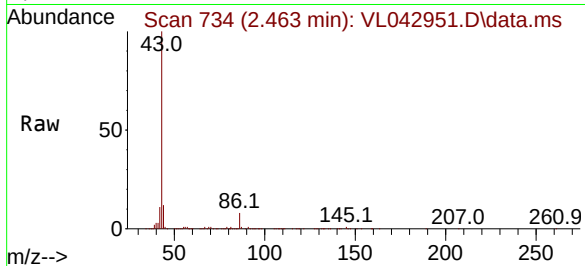




#23
 Vinyl Acetate
 Concen: 2.029 ppbv
 RT: 2.463 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

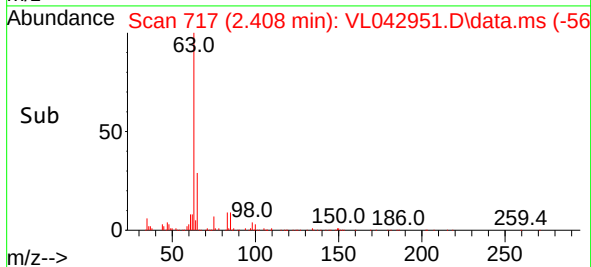
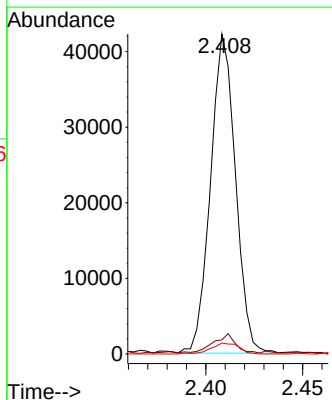
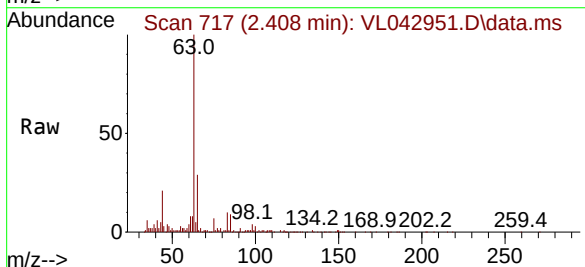
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

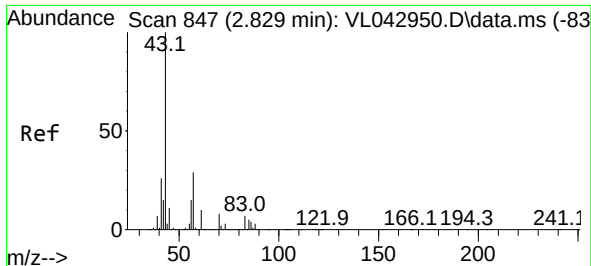
Tgt Ion:	43	Resp:	64479
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.2	9.2
42	10.3	7.4	11.0
44	6.5	4.2	6.2



#24
 1,1-Dichloroethane
 Concen: 2.047 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

Tgt Ion:	63	Resp:	37865
Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.2	6.6
100	3.4	1.4	4.0

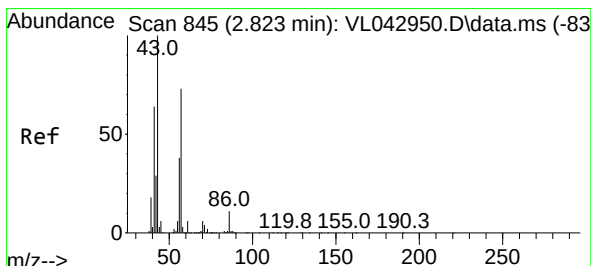
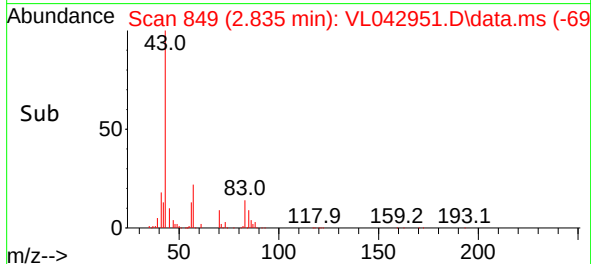
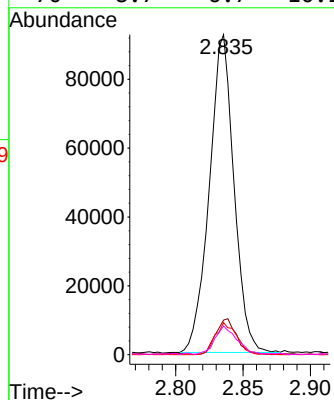
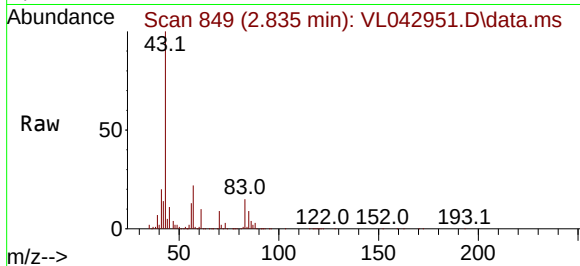




#25
Ethyl Acetate
Concen: 2.092 ppbv
RT: 2.835 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

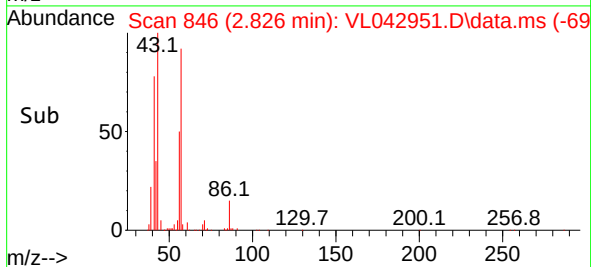
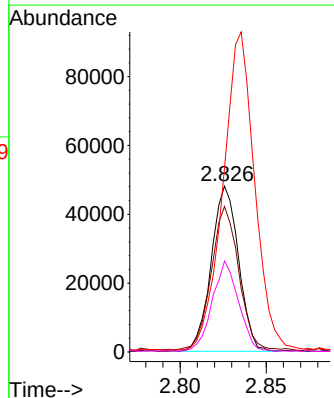
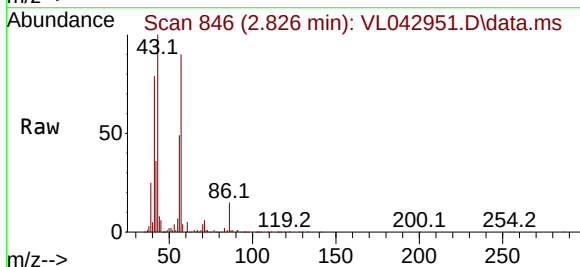
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

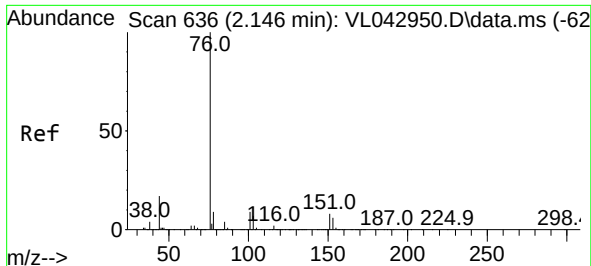
Tgt Ion: 43 Resp: 117567
Ion Ratio Lower Upper
43 100
45 10.4 7.7 11.5
61 8.8 7.1 10.7
70 8.7 6.7 10.1



#26
Hexane
Concen: 2.070 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion: 57 Resp: 53034
Ion Ratio Lower Upper
57 100
41 88.1 71.7 107.5
43 223.2 180.8 271.2
56 53.7 41.4 62.0

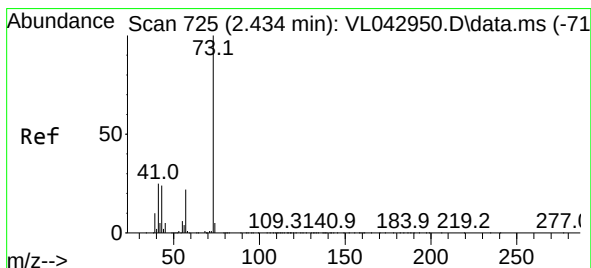
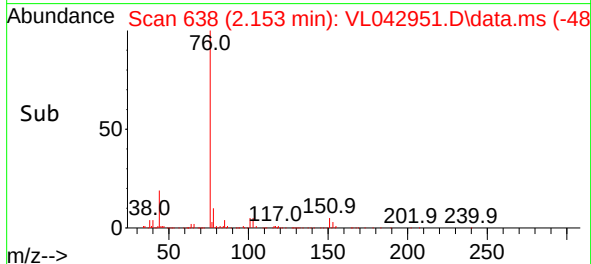
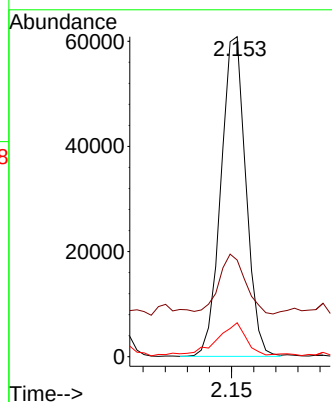
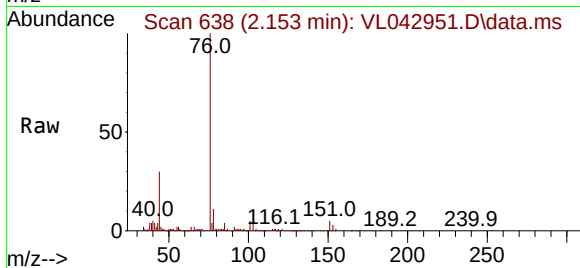




#27
Carbon Disulfide
Concen: 2.074 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

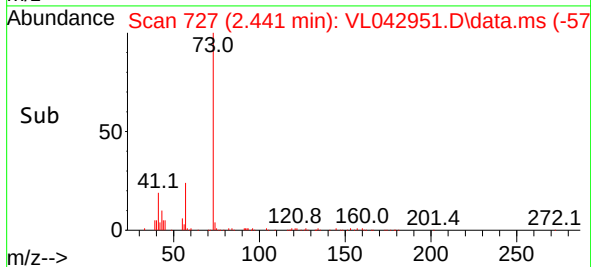
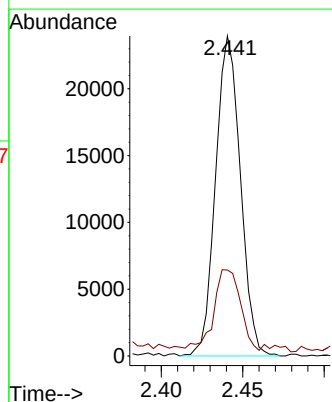
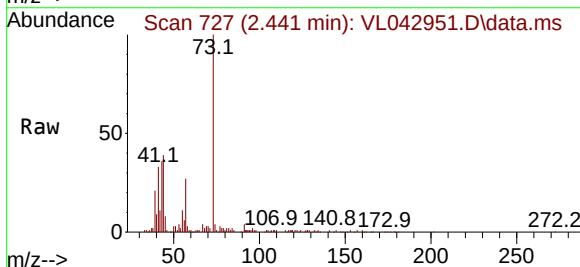
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

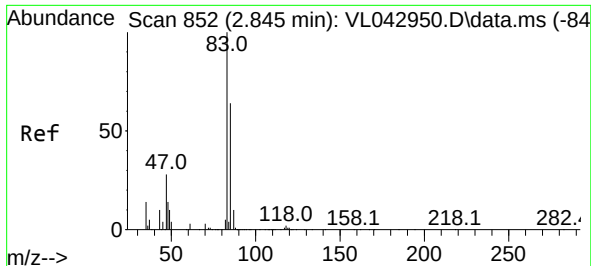
Tgt Ion: 76 Resp: 47660
Ion Ratio Lower Upper
76 100
44 46.5 15.6 23.4#
78 13.1 8.9 13.3



#28
Methyl tert-Butyl Ether
Concen: 1.903 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion: 73 Resp: 25348
Ion Ratio Lower Upper
73 100
57 29.8 20.6 31.0





#29

Chloroform

Concen: 2.077 ppbv

RT: 2.848 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

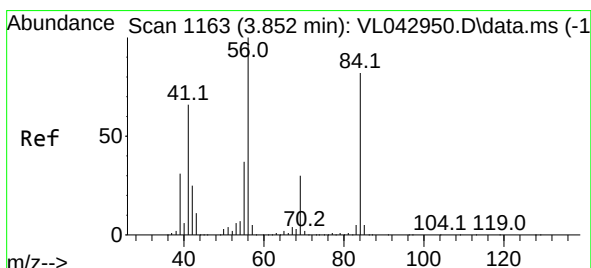
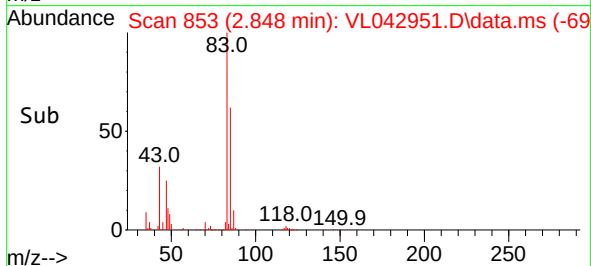
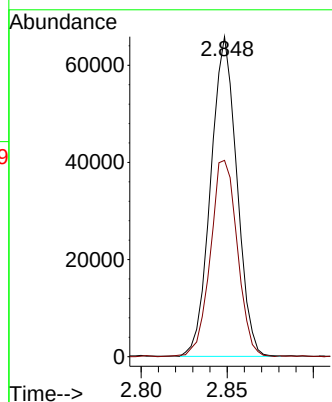
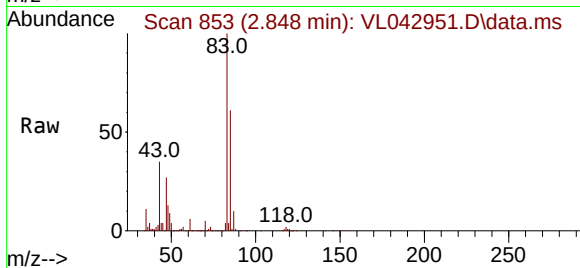
VSTDICC002

Tgt Ion: 83 Resp: 69599

Ion Ratio Lower Upper

83 100

85 61.2 51.2 76.8



#30

Cyclohexane

Concen: 2.041 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

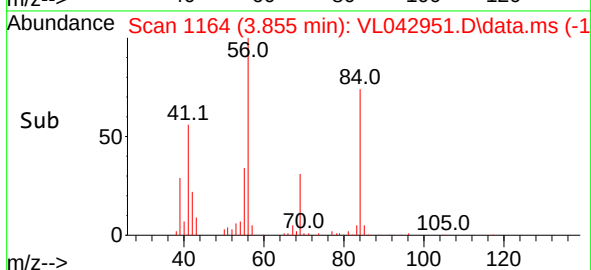
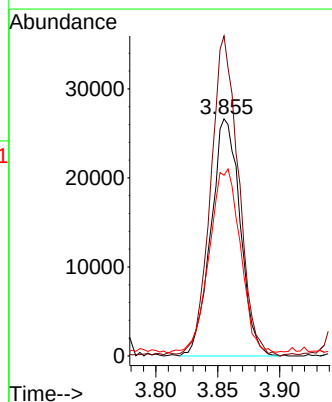
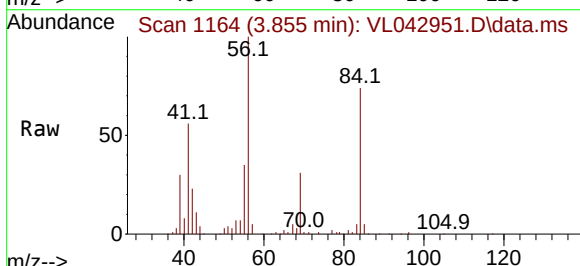
Tgt Ion: 84 Resp: 43725

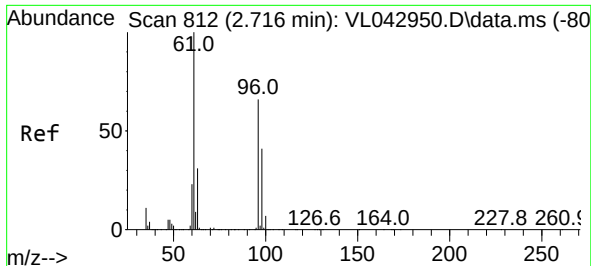
Ion Ratio Lower Upper

84 100

56 129.8 102.2 153.4

41 81.2 65.6 98.4

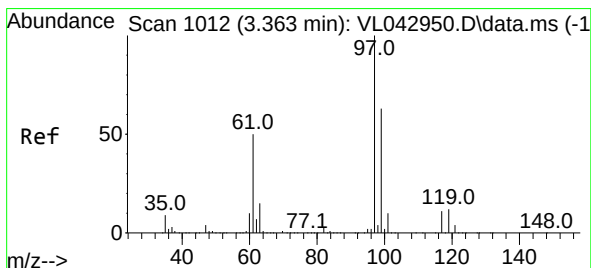
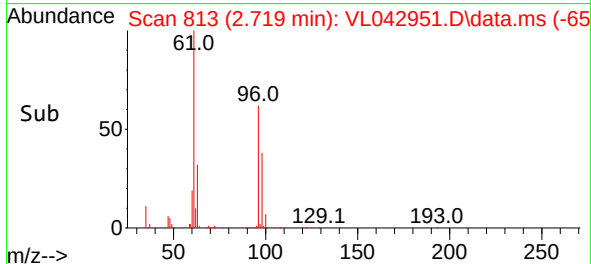
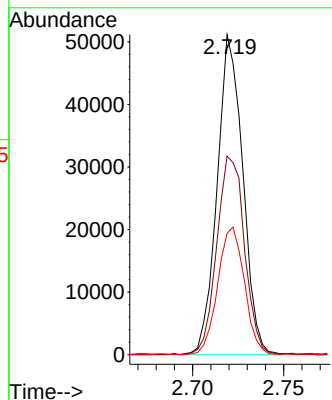
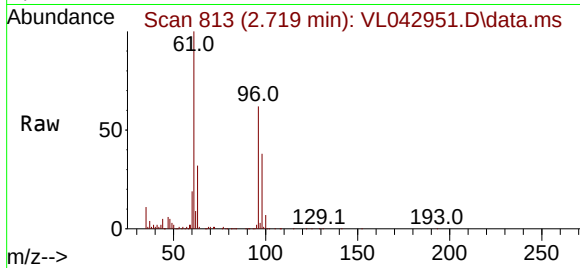




#31
 cis-1,2-Dichloroethene
 Concen: 2.084 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

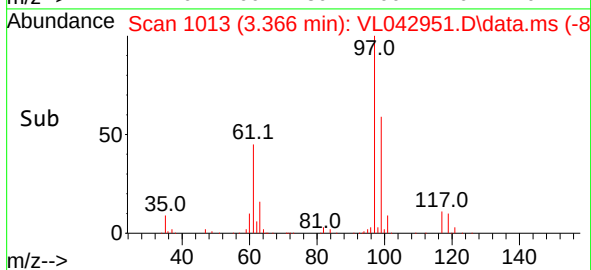
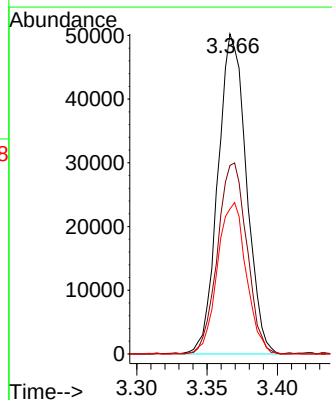
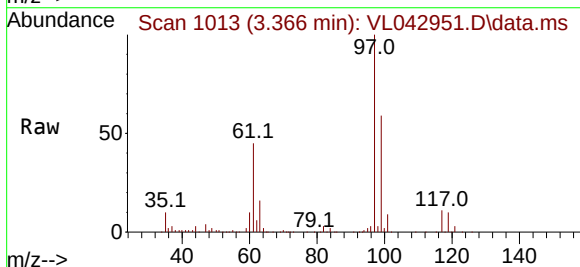
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

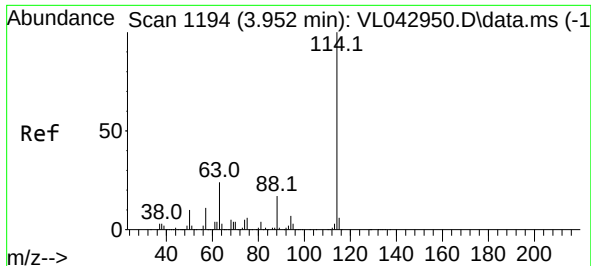
Tgt Ion: 61 Resp: 50019
 Ion Ratio Lower Upper
 61 100
 96 61.9 53.0 79.6
 98 37.9 32.9 49.3



#32
 1,1,1-Trichloroethane
 Concen: 1.948 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

Tgt Ion: 97 Resp: 70729
 Ion Ratio Lower Upper
 97 100
 99 61.2 51.1 76.7
 61 48.1 39.8 59.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1194

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

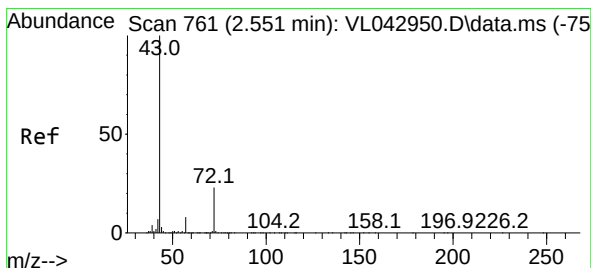
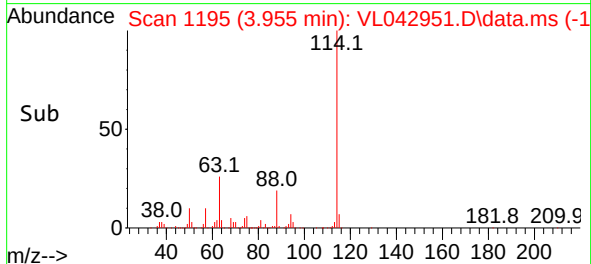
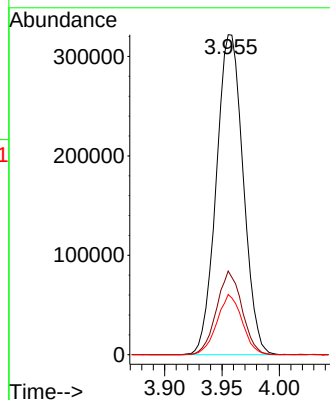
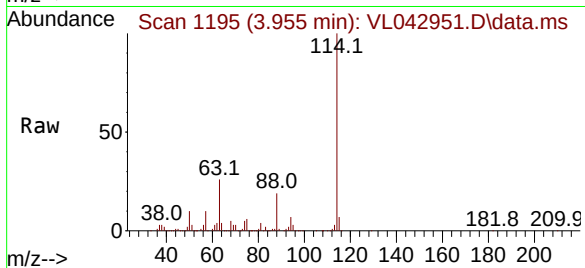
Tgt Ion:114 Resp: 524389

Ion Ratio Lower Upper

114 100

63 24.7 19.4 29.2

88 17.6 14.2 21.2



#34

2-Butanone

Concen: 2.114 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.006 min

Lab File: VL042951.D

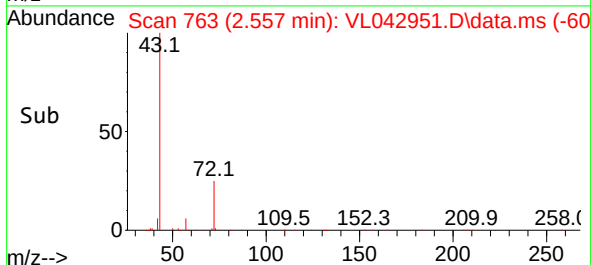
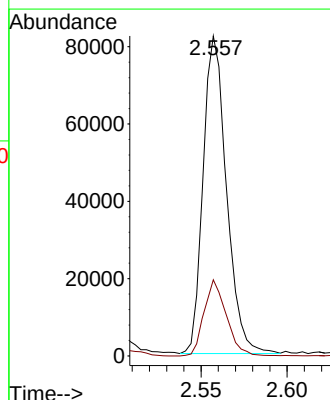
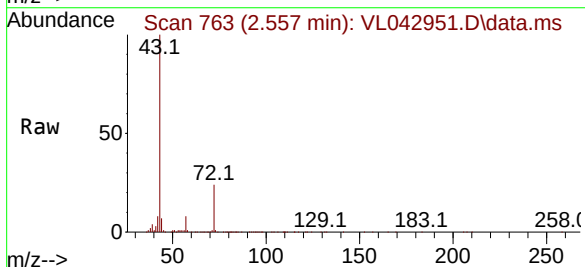
Acq: 22 Sep 2025 10:14

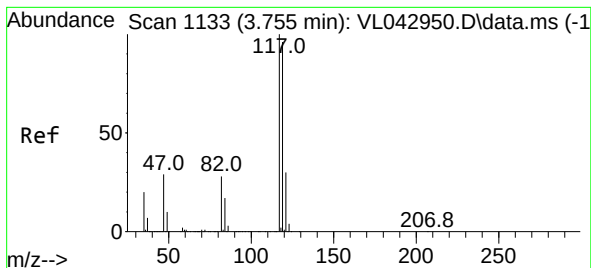
Tgt Ion: 43 Resp: 77689

Ion Ratio Lower Upper

43 100

72 23.1 17.7 26.5





#35

Carbon Tetrachloride

Concen: 2.041 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

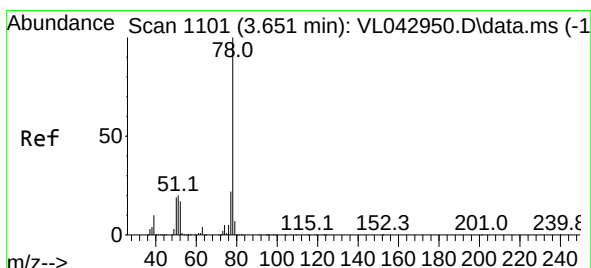
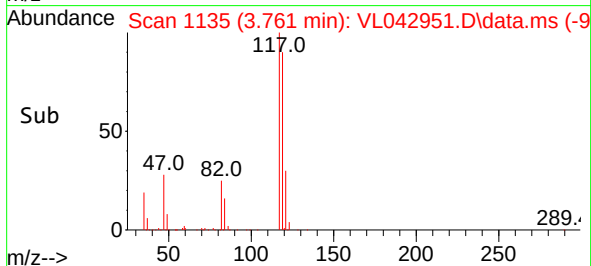
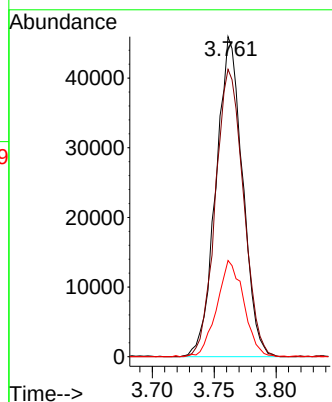
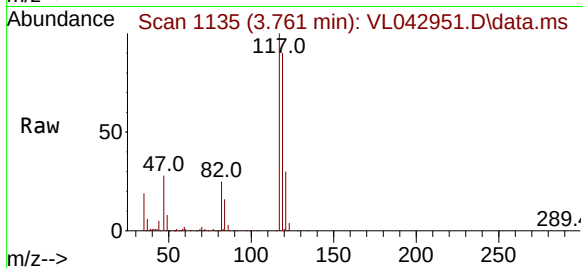
Tgt Ion:117 Resp: 68858

Ion Ratio Lower Upper

117 100

119 89.8 76.9 115.3

121 30.0 23.7 35.5



#36

Benzene

Concen: 2.069 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

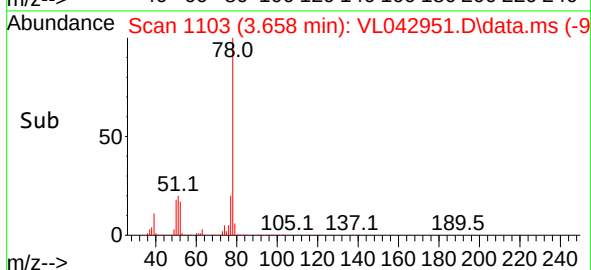
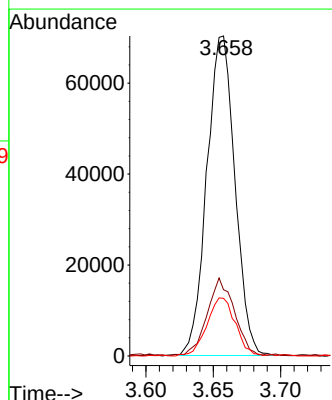
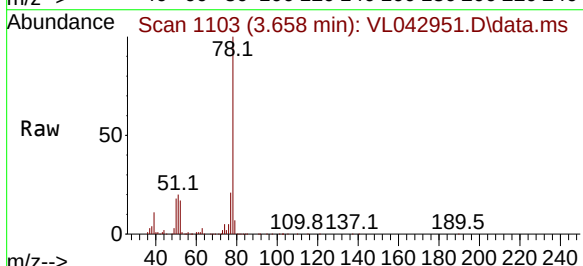
Tgt Ion: 78 Resp: 101901

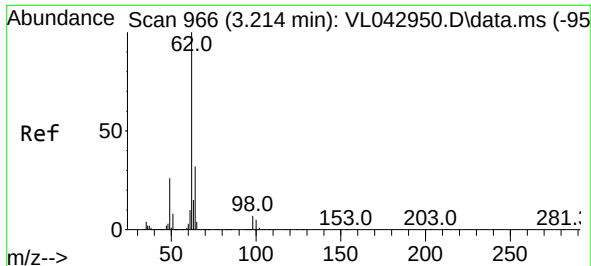
Ion Ratio Lower Upper

78 100

77 20.5 17.8 26.6

50 17.7 15.0 22.4





#37

1,2-Dichloroethane

Concen: 2.052 ppbv

RT: 3.217 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

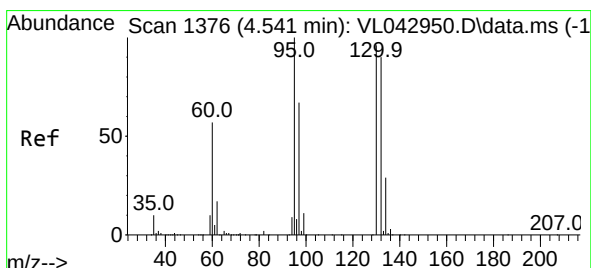
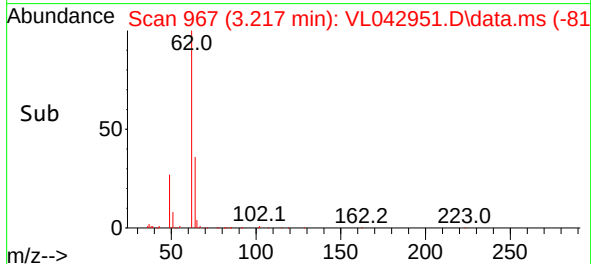
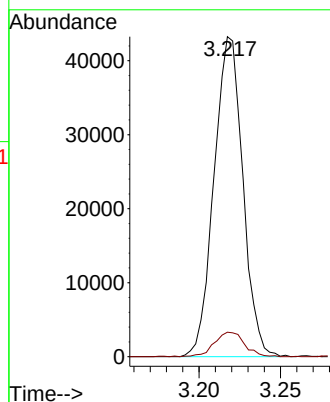
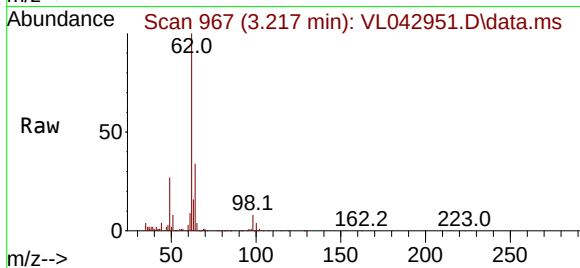
VSTDICC002

Tgt Ion: 62 Resp: 53130

Ion Ratio Lower Upper

62 100

98 8.1 5.9 8.9



#38

Trichloroethene

Concen: 1.938 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Tgt Ion:130 Resp: 47424

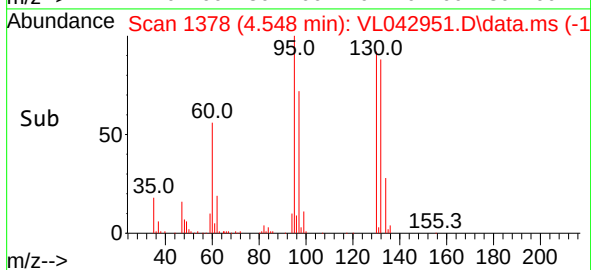
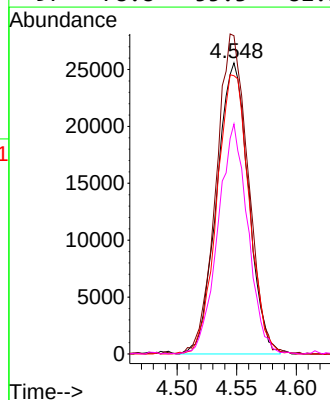
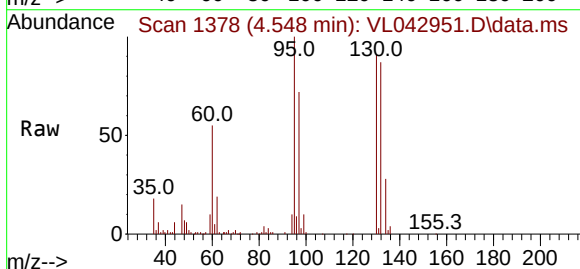
Ion Ratio Lower Upper

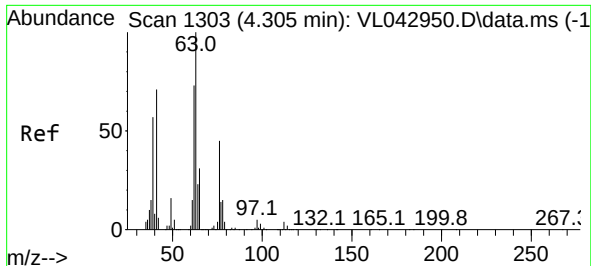
130 100

95 109.0 83.0 124.4

132 95.0 74.6 112.0

97 78.8 55.3 82.9





#39

1,2-Dichloropropane

Concen: 1.230 ppbv

RT: 4.308 min Scan# 1303

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

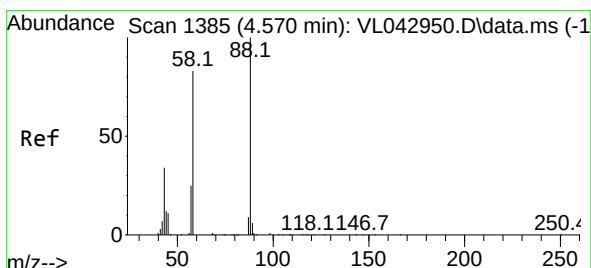
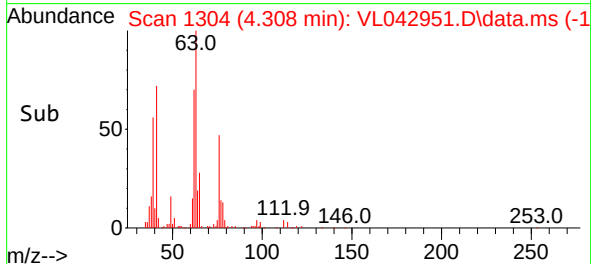
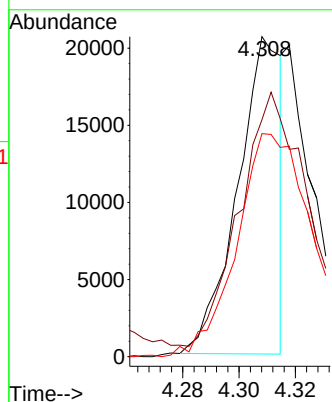
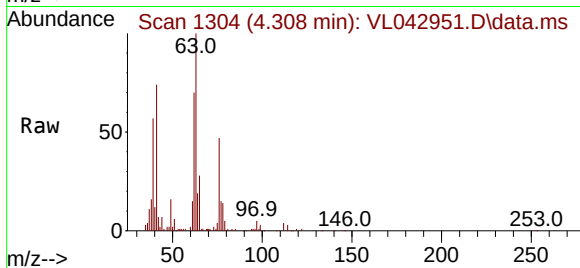
Tgt Ion: 63 Resp: 22120

Ion Ratio Lower Upper

63 100

41 71.2 57.5 86.3

62 67.2 58.5 87.7



#40

1,4-Dioxane

Concen: 1.895 ppbv

RT: 4.586 min Scan# 1390

Delta R.T. 0.016 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Tgt Ion: 88 Resp: 15831

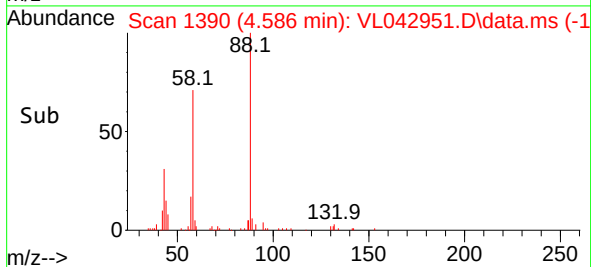
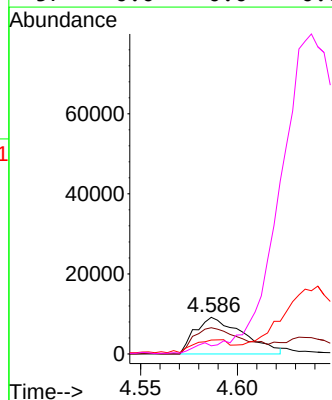
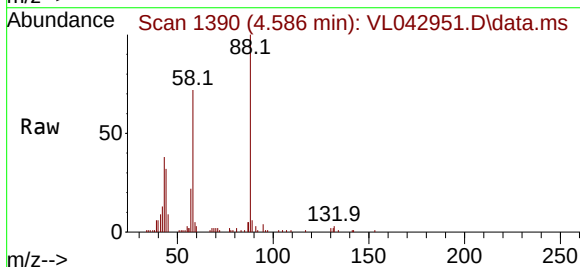
Ion Ratio Lower Upper

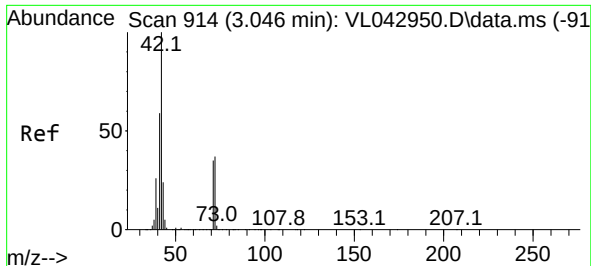
88 100

58 78.0 59.7 89.5

43 0.0 28.9 43.3

57 0.0 0.0 0.0

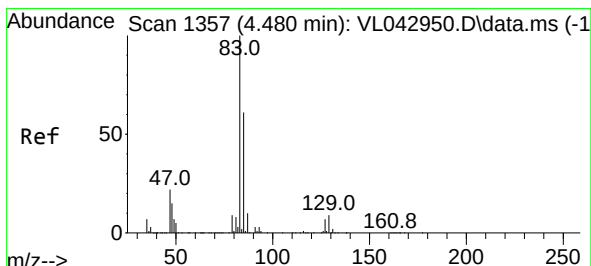
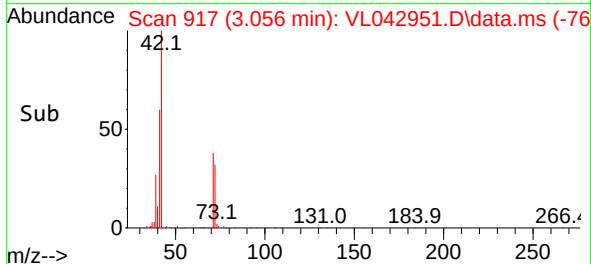
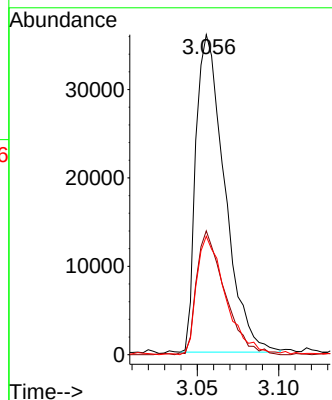
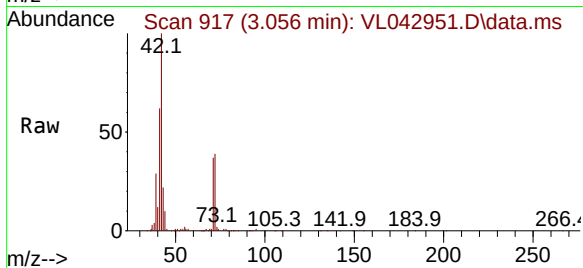




#41
Tetrahydrofuran
Concen: 2.081 ppbv
RT: 3.056 min Scan# 914
Delta R.T. 0.010 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

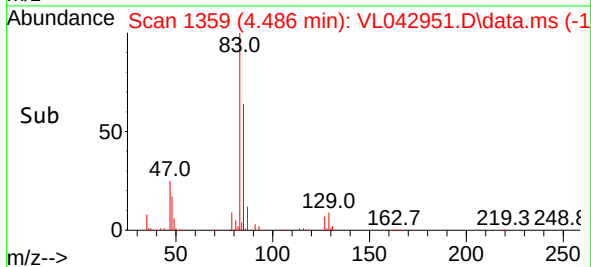
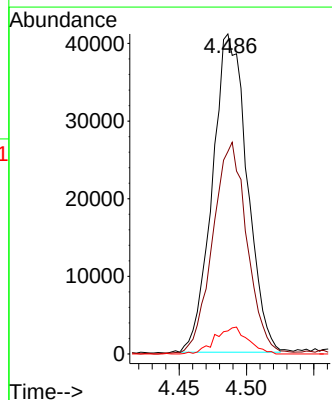
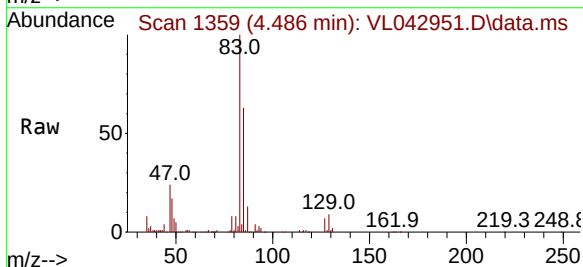
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

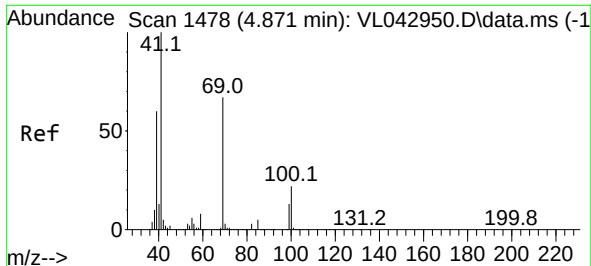
Tgt Ion: 42 Resp: 43962
Ion Ratio Lower Upper
42 100
72 38.5 30.0 45.0
71 37.4 28.8 43.2



#42
Bromodichloromethane
Concen: 2.042 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion: 83 Resp: 73675
Ion Ratio Lower Upper
83 100
85 63.2 49.0 73.6
127 7.2 5.3 7.9

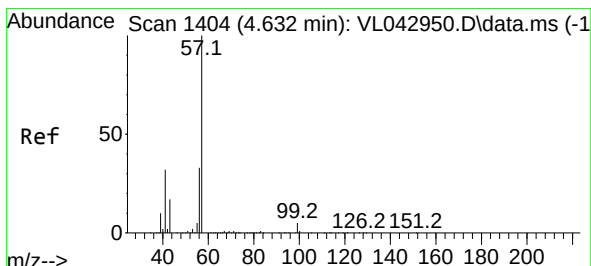
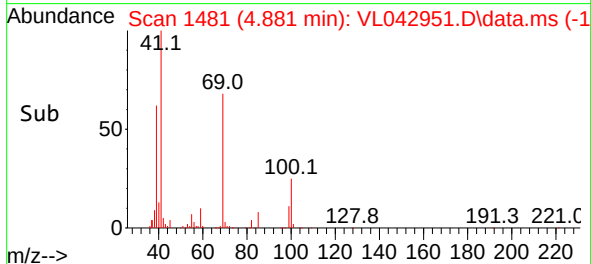
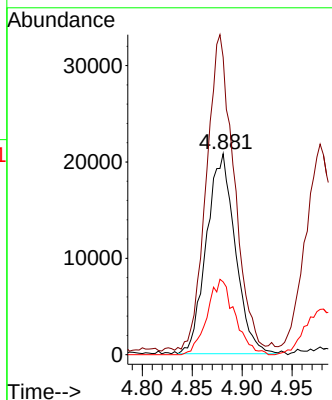
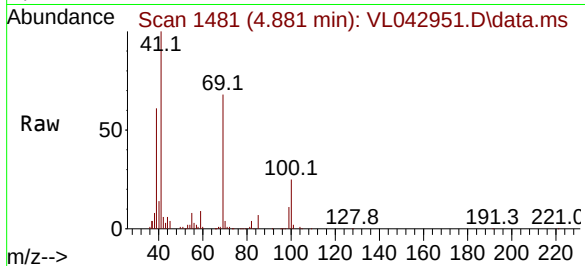




#43
Methyl Methacrylate
Concen: 2.077 ppbv
RT: 4.881 min Scan# 1478
Delta R.T. 0.010 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

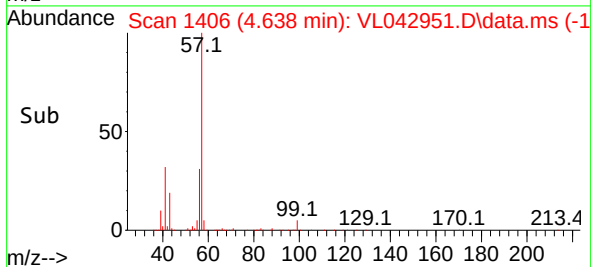
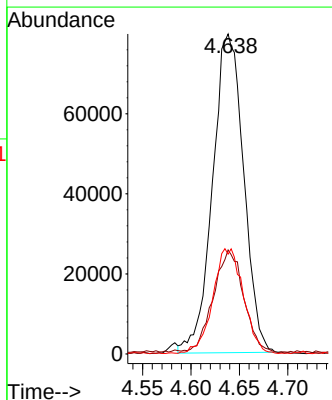
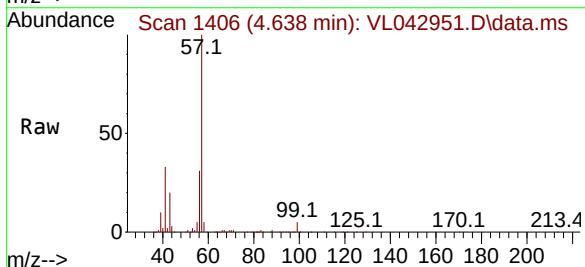
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

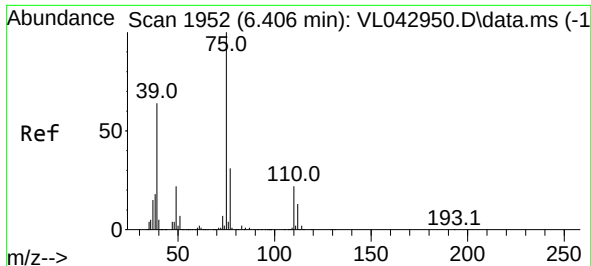
Tgt Ion: 69 Resp: 41527
Ion Ratio Lower Upper
69 100
41 153.8 124.5 186.7
100 36.3 29.0 43.6



#44
2,2,4-Trimethylpentane
Concen: 2.083 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion: 57 Resp: 177242
Ion Ratio Lower Upper
57 100
41 32.9 25.5 38.3
56 32.5 25.8 38.8





#45

t-1,3-Dichloropropene

Concen: 2.055 ppbv

RT: 6.415 min Scan# 1952

Delta R.T. 0.010 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

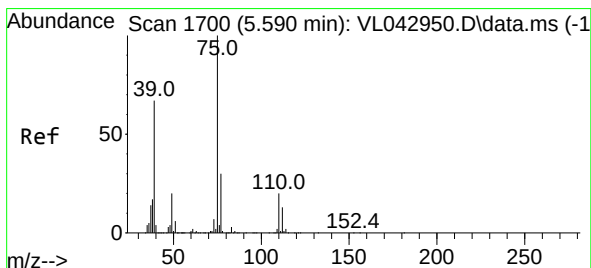
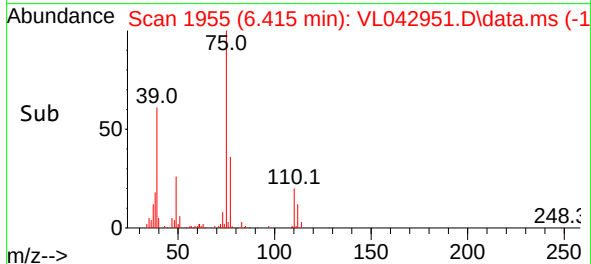
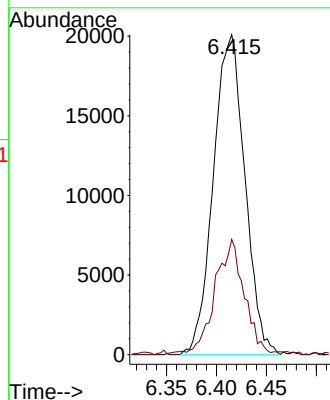
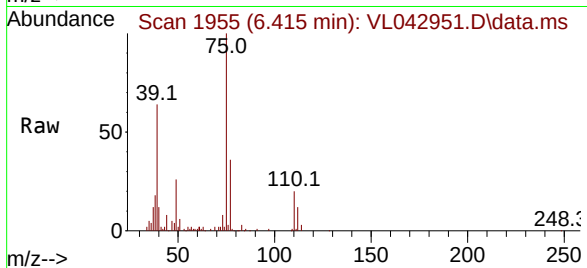
VSTDIC002

Tgt Ion: 75 Resp: 44171

Ion Ratio Lower Upper

75 100

77 36.0 25.0 37.4



#46

cis-1,3-Dichloropropene

Concen: 2.057 ppbv

RT: 5.596 min Scan# 1702

Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

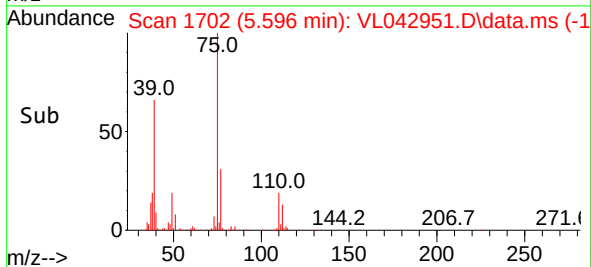
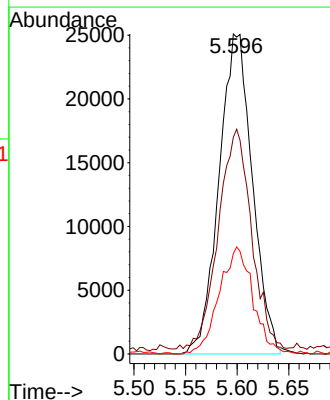
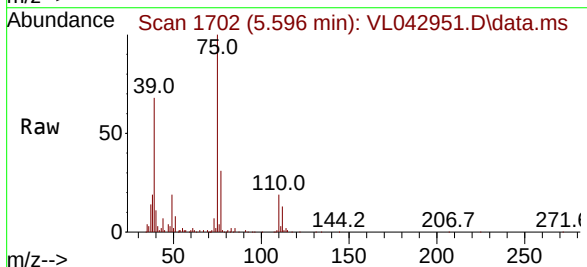
Tgt Ion: 75 Resp: 56335

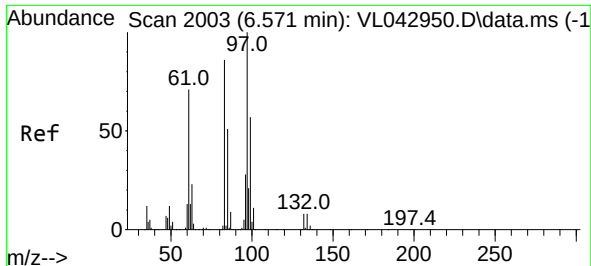
Ion Ratio Lower Upper

75 100

39 64.9 53.8 80.6

77 31.4 23.6 35.4





#47

1,1,2-Trichloroethane

Concen: 1.057 ppbv

RT: 6.577 min Scan# 2003

Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 97 Resp: 20092

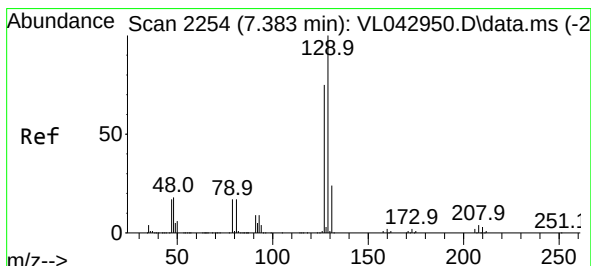
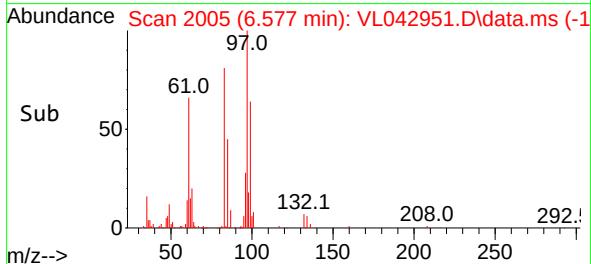
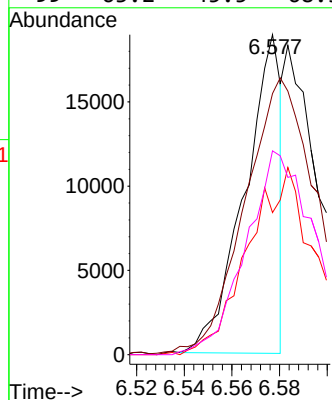
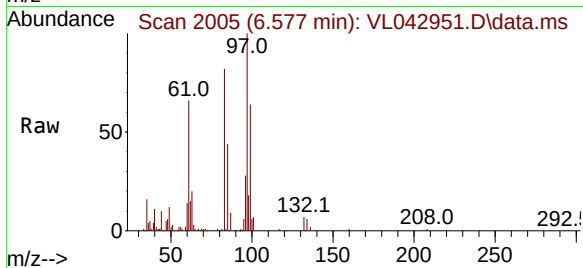
Ion Ratio Lower Upper

97 100

83 79.5 68.7 103.1

85 44.7 40.6 60.8

99 63.2 45.5 68.3



#48

Dibromochloromethane

Concen: 2.072 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. -0.000 min

Lab File: VL042951.D

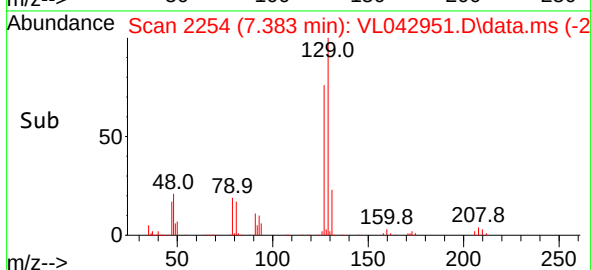
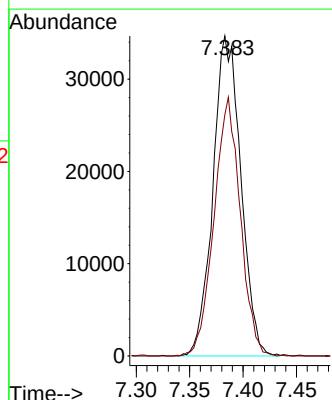
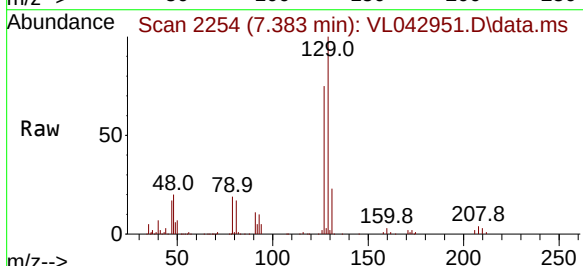
Acq: 22 Sep 2025 10:14

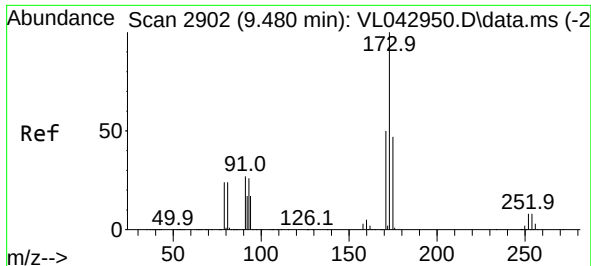
Tgt Ion: 129 Resp: 62968

Ion Ratio Lower Upper

129 100

127 76.1 39.1 117.2





#49

Bromoform

Concen: 2.119 ppbv

RT: 9.480 min Scan# 2902

Delta R.T. -0.000 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

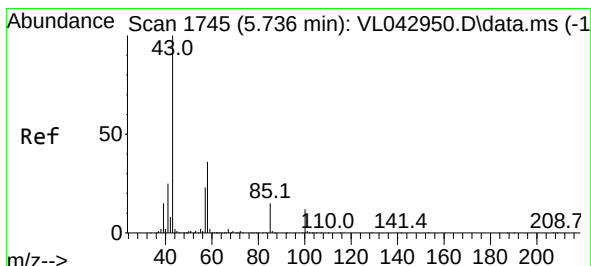
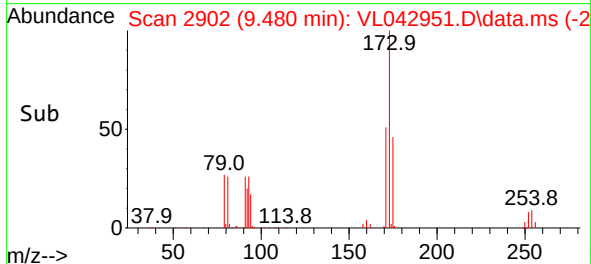
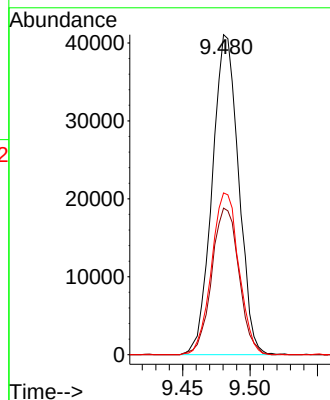
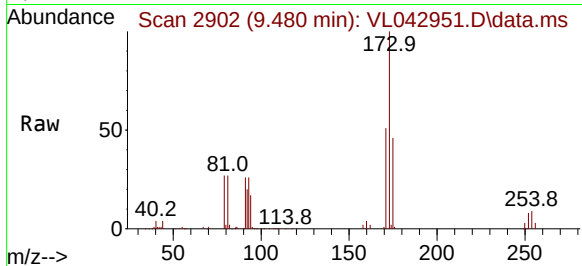
Tgt Ion:173 Resp: 56021

Ion Ratio Lower Upper

173 100

175 47.3 37.9 56.9

171 52.1 41.1 61.7



#50

4-Methyl-2-Pentanone

Concen: 0.893 ppbv

RT: 5.748 min Scan# 1749

Delta R.T. 0.013 min

Lab File: VL042951.D

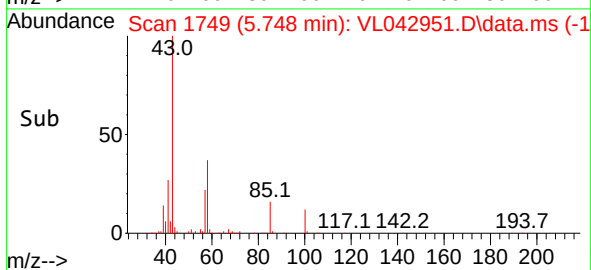
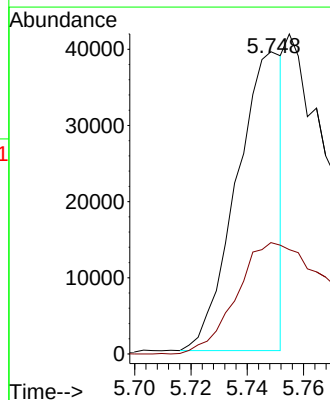
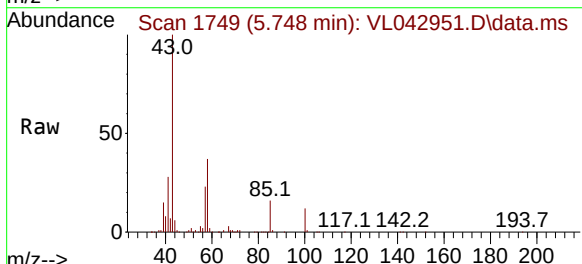
Acq: 22 Sep 2025 10:14

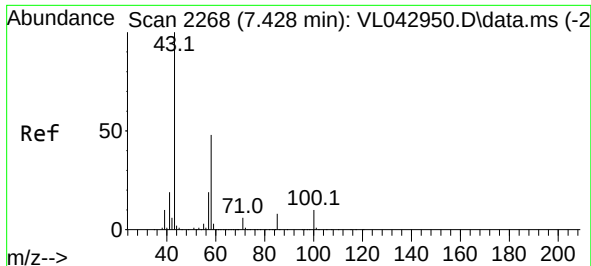
Tgt Ion: 43 Resp: 44119

Ion Ratio Lower Upper

43 100

58 84.8 28.4 42.6#

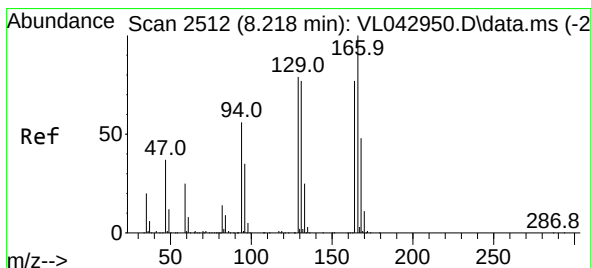
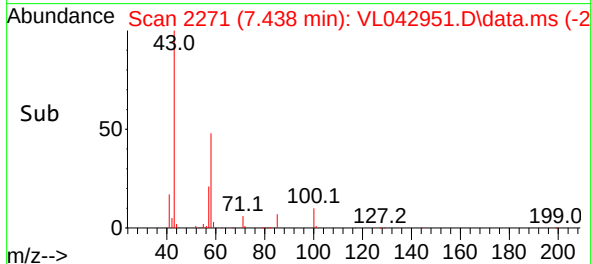
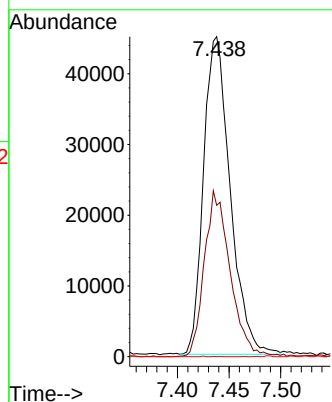
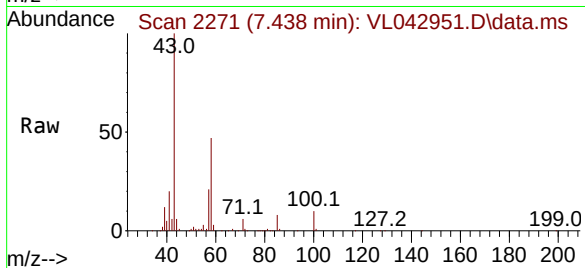




#51
2-Hexanone
Concen: 2.053 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

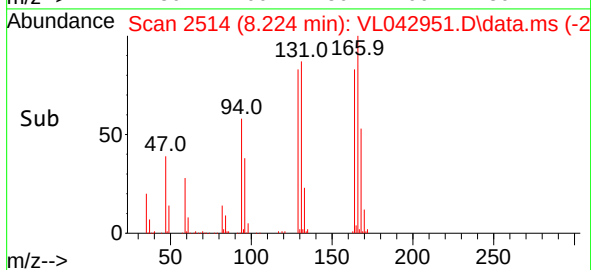
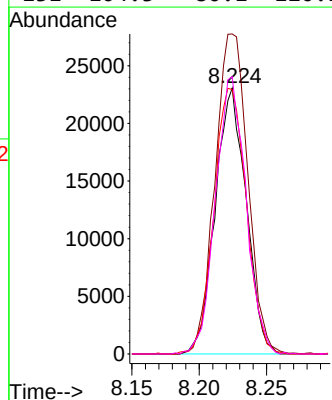
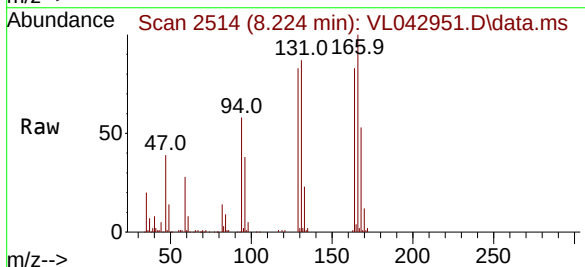
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

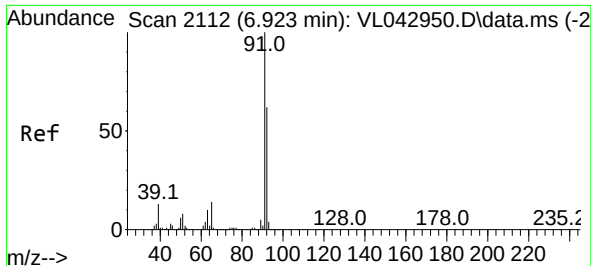
Tgt Ion: 43 Resp: 80620
Ion Ratio Lower Upper
43 100
58 50.6 39.7 59.5
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 1.934 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion: 164 Resp: 36853
Ion Ratio Lower Upper
164 100
166 120.4 103.5 155.3
129 98.8 82.2 123.4
131 104.3 80.1 120.1

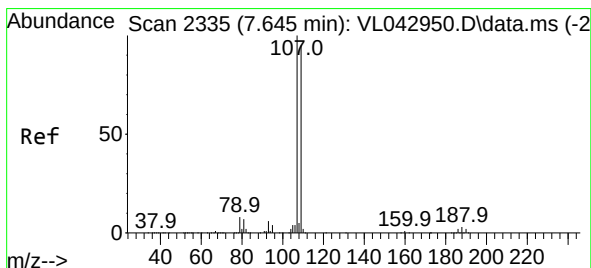
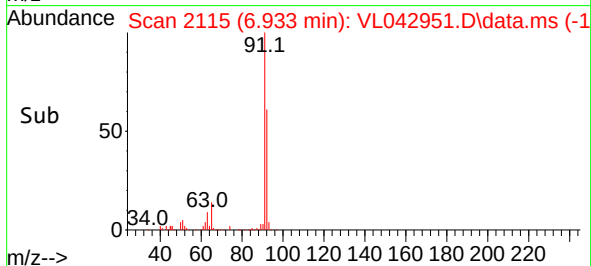
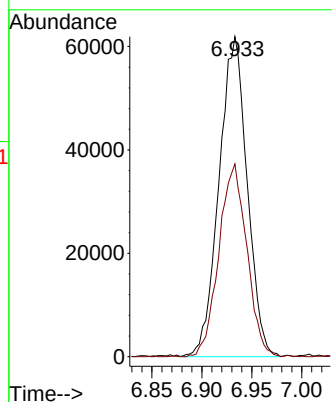
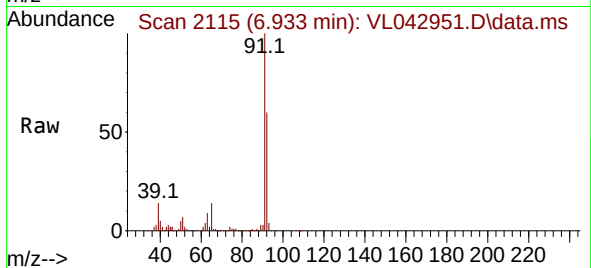




#53
Toluene
Concen: 2.081 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.010 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

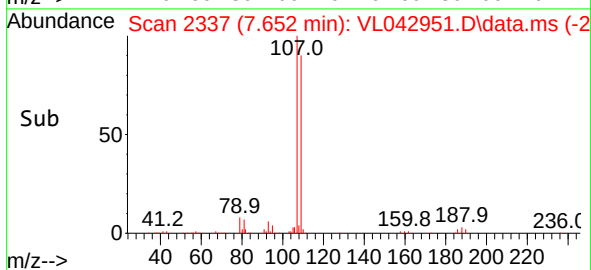
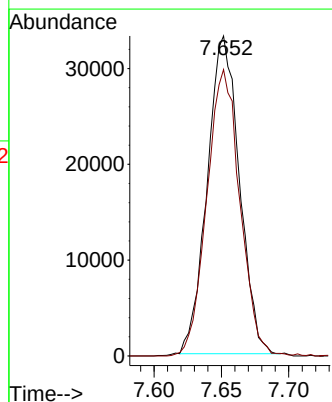
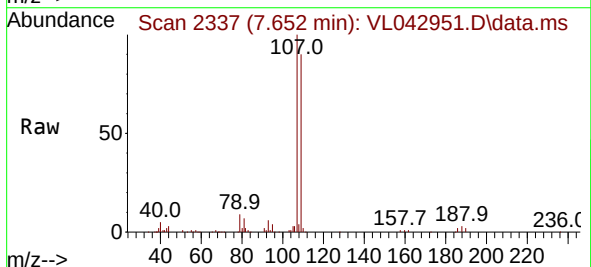
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

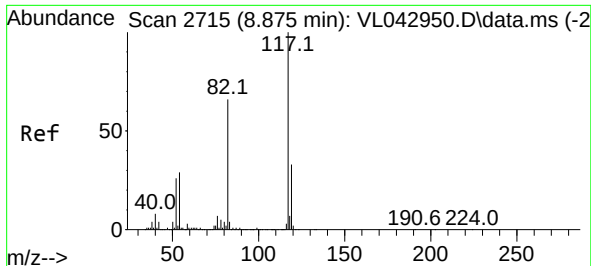
Tgt Ion: 91 Resp: 121268
Ion Ratio Lower Upper
91 100
92 59.8 48.2 72.2



#54
1,2-Dibromoethane
Concen: 2.058 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion: 107 Resp: 55022
Ion Ratio Lower Upper
107 100
109 89.3 75.8 113.8

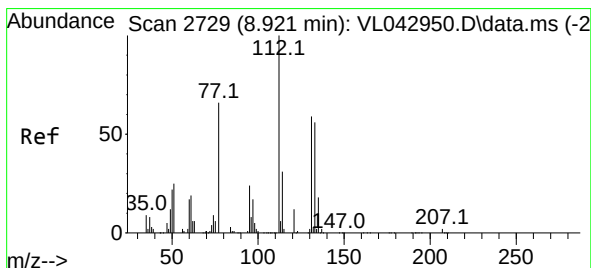
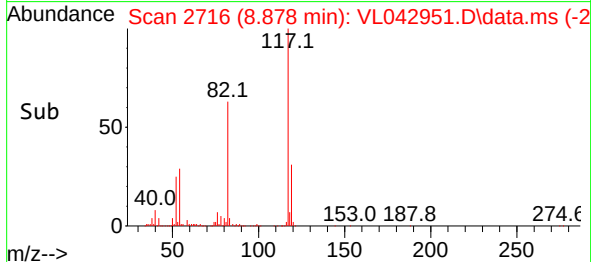
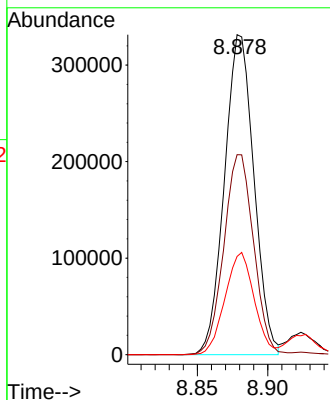
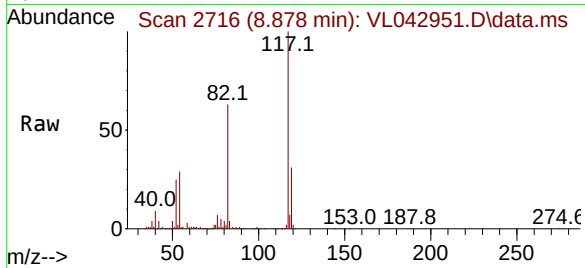




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

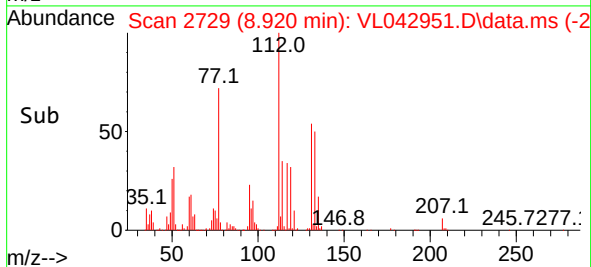
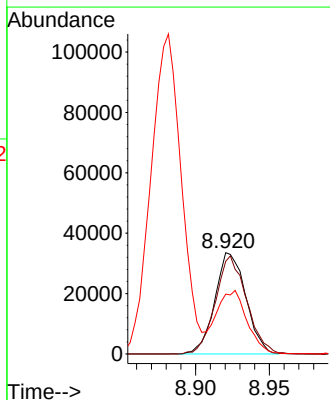
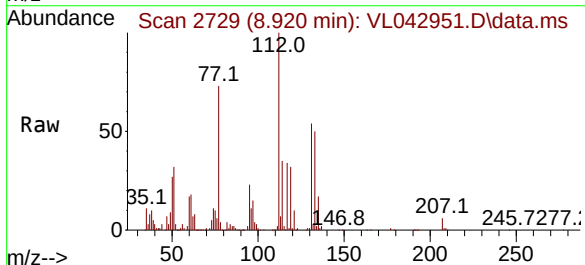
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

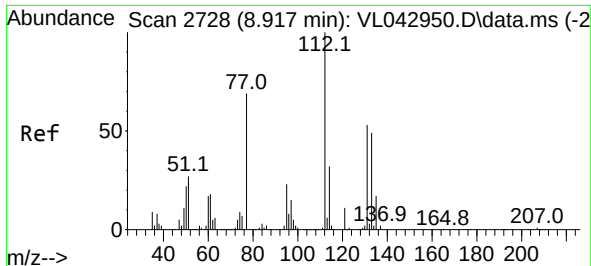
Tgt Ion:117 Resp: 483821
Ion Ratio Lower Upper
117 100
82 63.6 52.8 79.2
119 31.8 26.5 39.7



#56
1,1,1,2-Tetrachloroethane
Concen: 2.112 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.000 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion:131 Resp: 48901
Ion Ratio Lower Upper
131 100
133 97.7 76.6 114.8
119 61.4 49.9 74.9

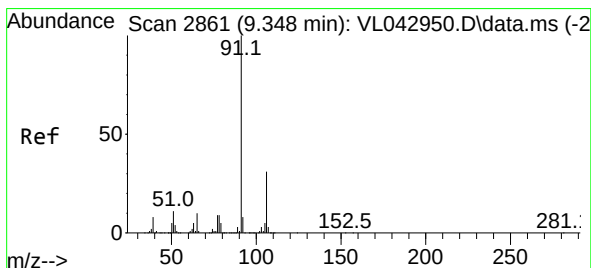
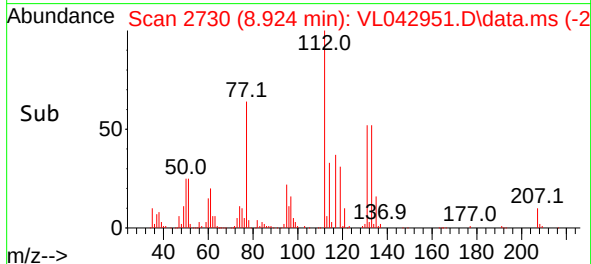
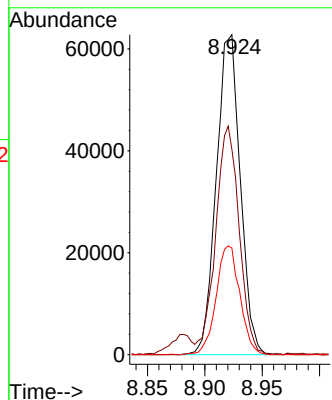
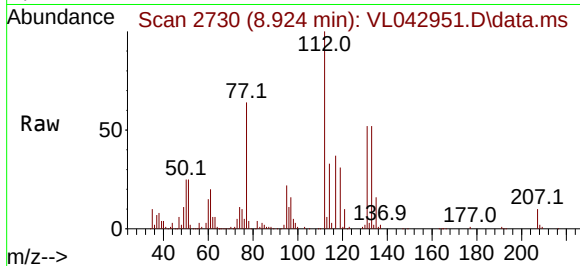




#57
Chlorobenzene
Concen: 2.068 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

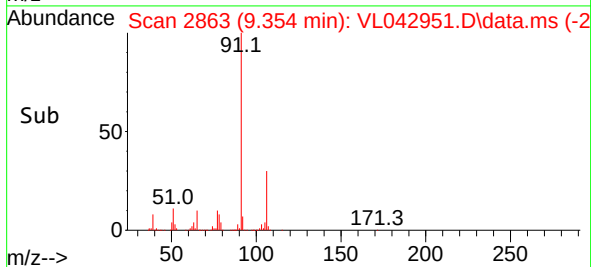
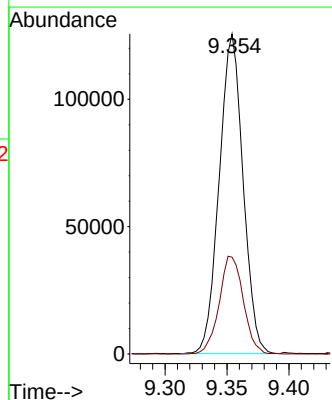
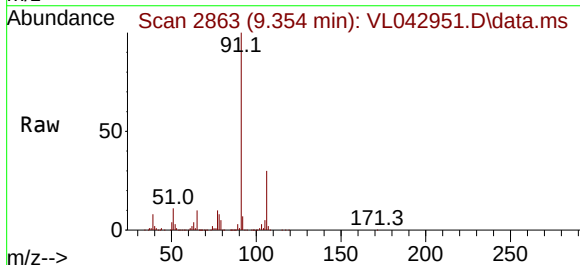
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

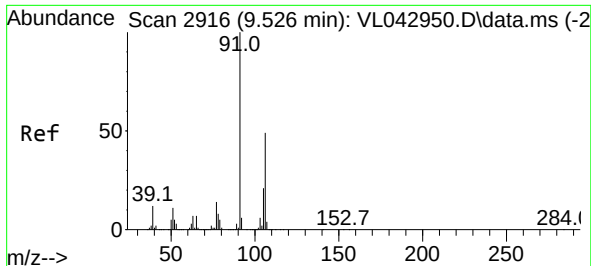
Tgt Ion	Ratio	Lower	Upper
112	100		
77	63.9	55.7	83.5
114	33.4	28.6	35.0



#58
Ethyl Benzene
Concen: 2.115 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.006 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.6	37.0





#59

m/p-Xylene

Concen: 2.086 ppbv

RT: 9.532 min Scan# 2916

Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

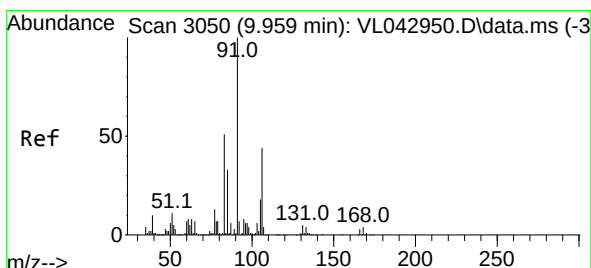
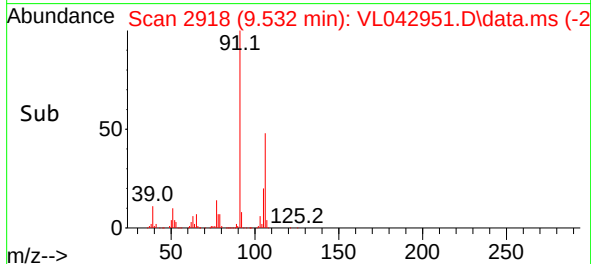
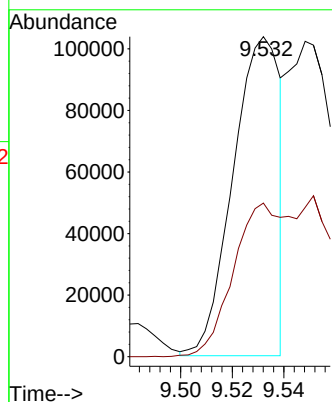
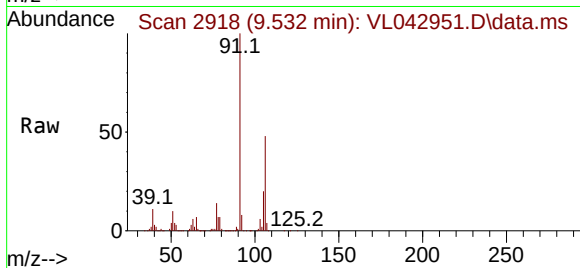
VSTDIC002

Tgt Ion: 91 Resp: 130749

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 2.101 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.003 min

Lab File: VL042951.D

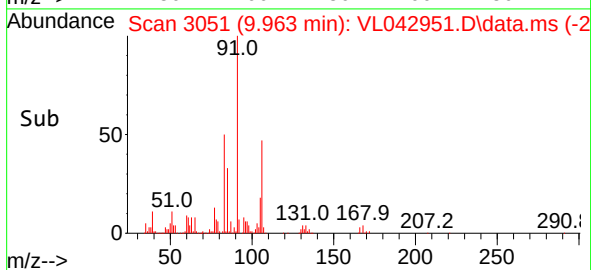
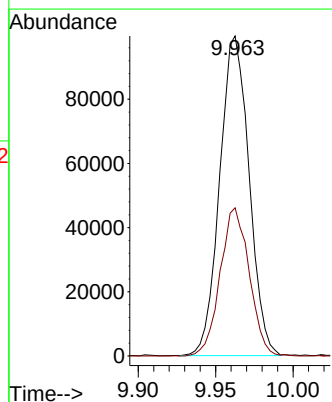
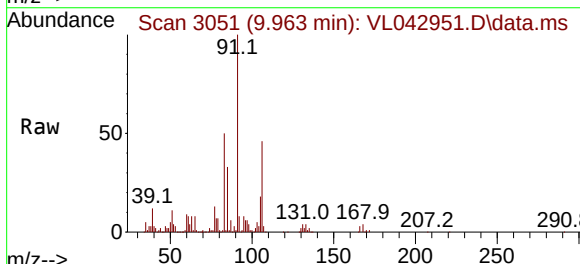
Acq: 22 Sep 2025 10:14

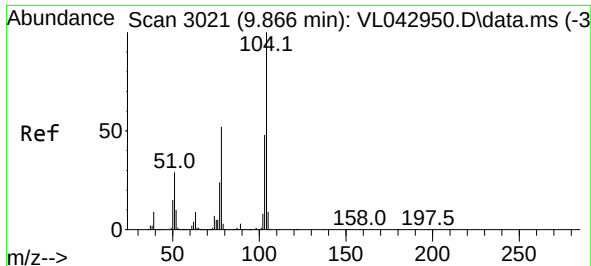
Tgt Ion: 91 Resp: 131507

Ion Ratio Lower Upper

91 100

106 45.8 22.4 67.0





#61

Styrene

Concen: 2.119 ppbv

RT: 9.869 min Scan# 3021

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

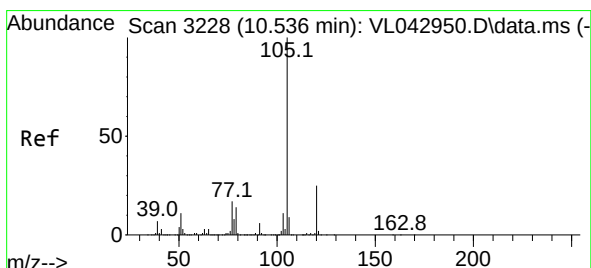
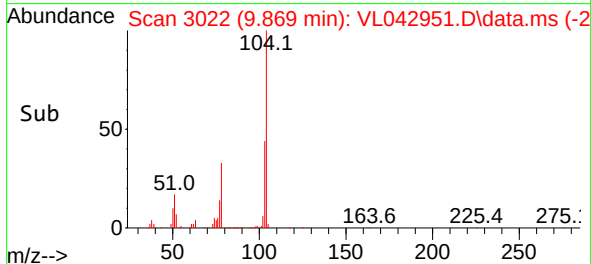
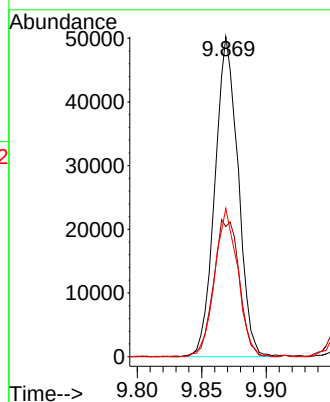
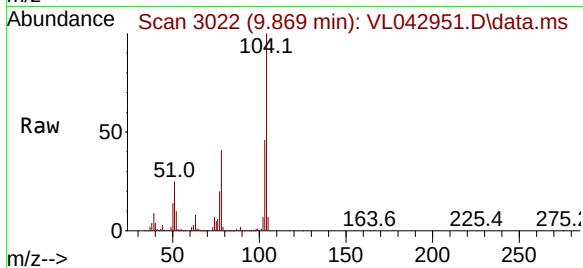
Tgt Ion:104 Resp: 62748

Ion Ratio Lower Upper

104 100

78 47.7 39.9 59.9

103 46.3 36.9 55.3



#62

Isopropylbenzene

Concen: 2.103 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. 0.003 min

Lab File: VL042951.D

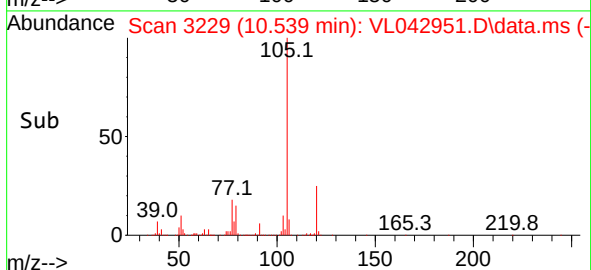
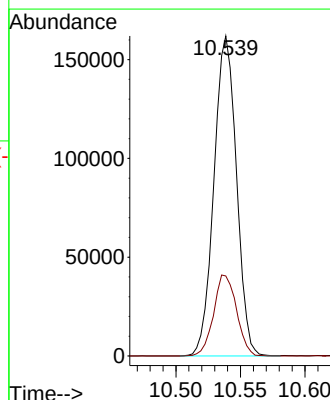
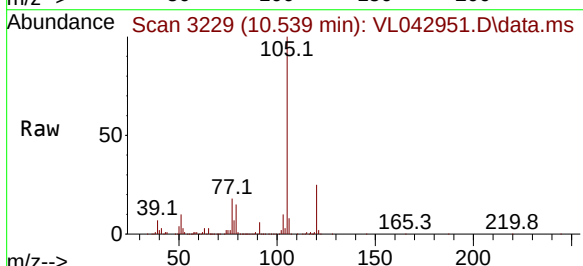
Acq: 22 Sep 2025 10:14

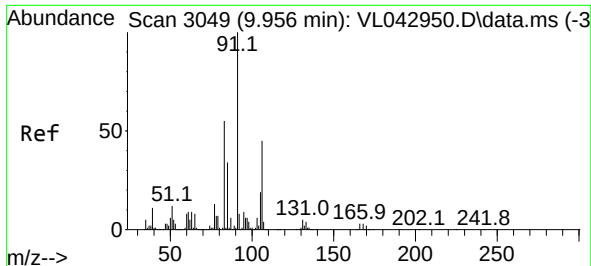
Tgt Ion:105 Resp: 196198

Ion Ratio Lower Upper

105 100

120 25.7 20.6 30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 1.978 ppbv

RT: 9.963 min Scan# 3049

Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

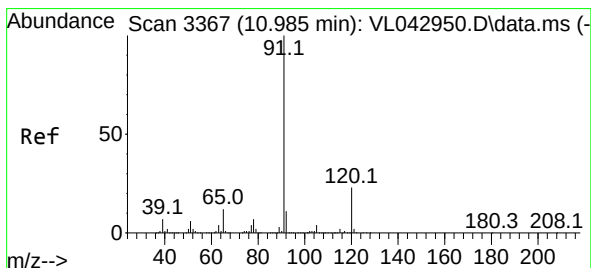
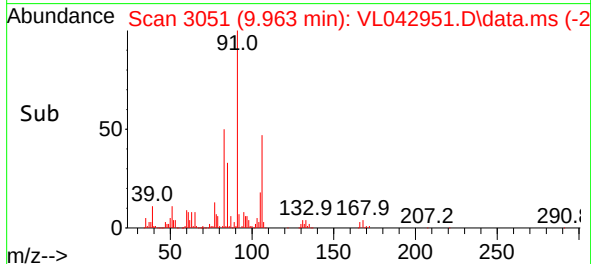
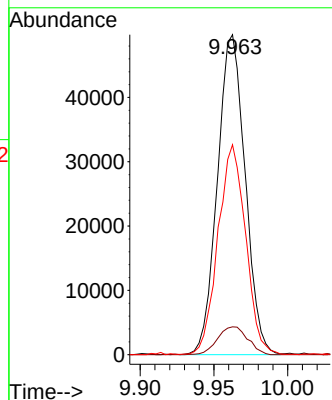
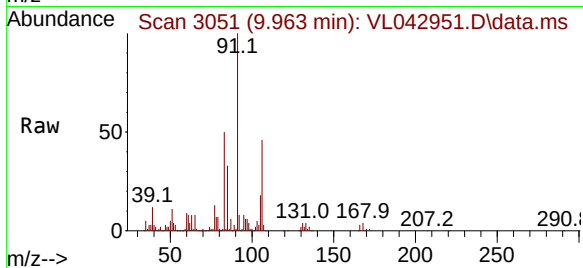
Tgt Ion: 83 Resp: 65089

Ion Ratio Lower Upper

83 100

131 9.5 4.8 14.4

85 65.9 32.2 96.6



#64

n-propylbenzene

Concen: 2.074 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.000 min

Lab File: VL042951.D

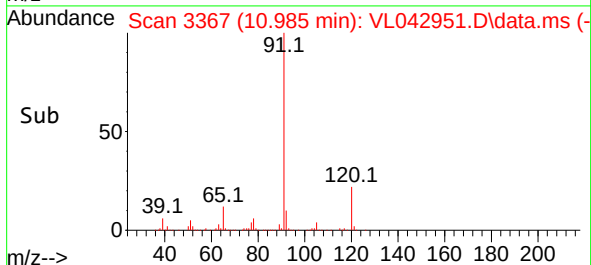
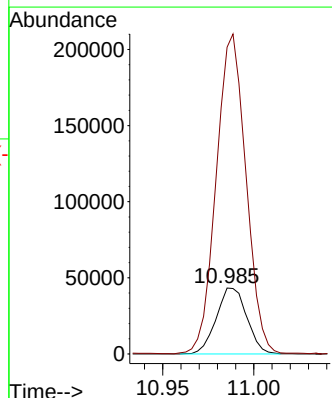
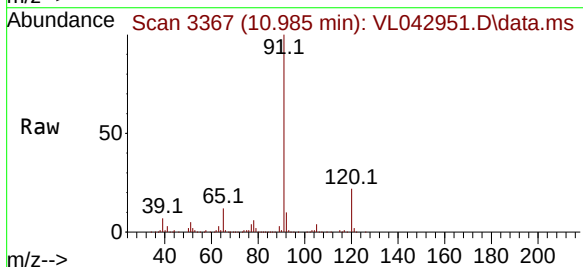
Acq: 22 Sep 2025 10:14

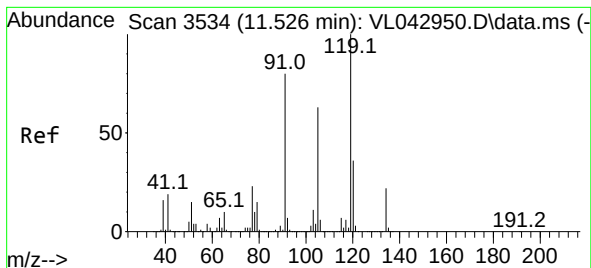
Tgt Ion: 120 Resp: 50569

Ion Ratio Lower Upper

120 100

91 474.1 364.9 547.3





#65

tert-Butylbenzene

Concen: 2.147 ppbv

RT: 11.529 min Scan# 3534

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

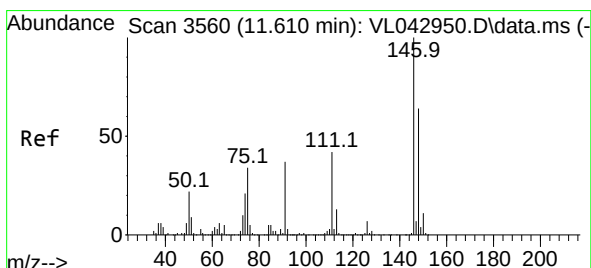
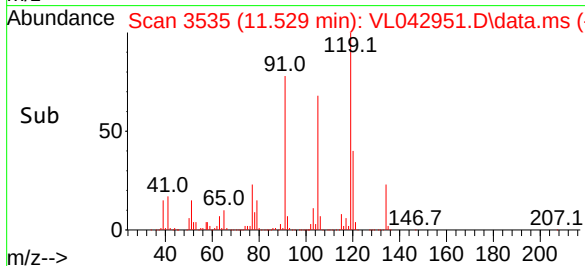
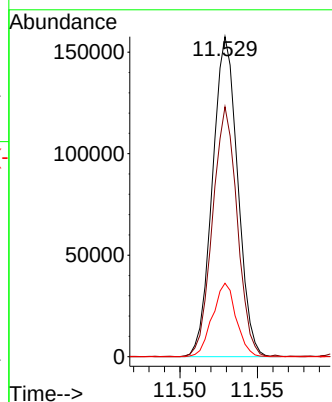
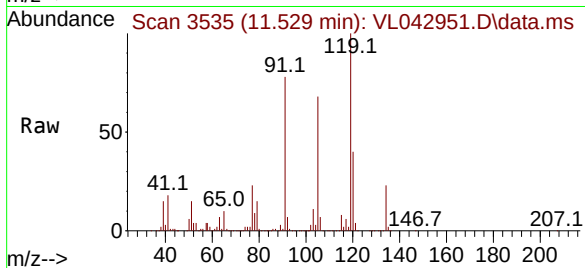
Tgt Ion:119 Resp: 178218

Ion Ratio Lower Upper

119 100

91 76.4 63.1 94.7

134 21.5 17.0 25.6



#66

Benzyl Chloride

Concen: 2.181 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

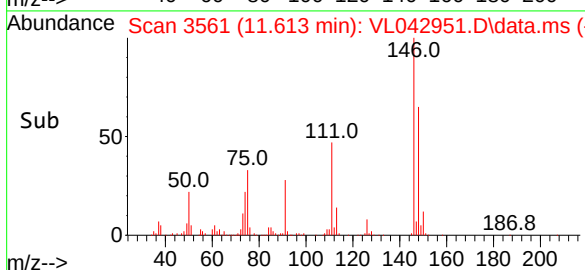
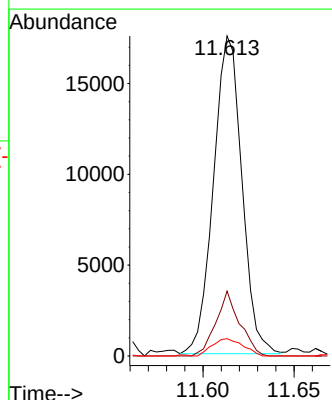
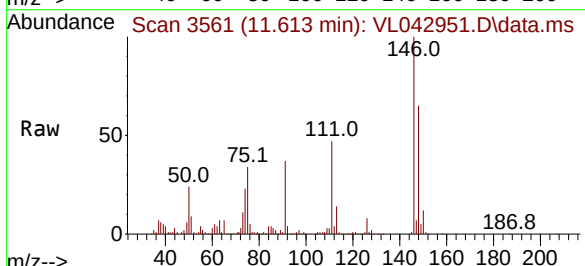
Tgt Ion: 91 Resp: 18992

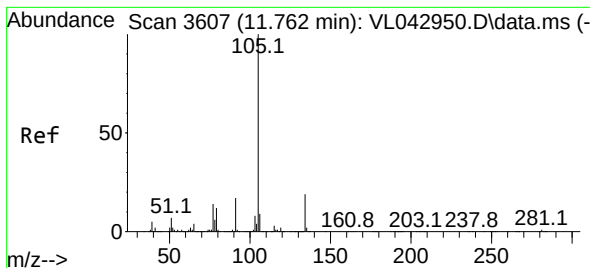
Ion Ratio Lower Upper

91 100

126 17.1 14.6 21.8

128 6.0 5.0 7.4





#67

sec-Butylbenzene

Concen: 2.158 ppbv

RT: 11.765 min Scan# 3178

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

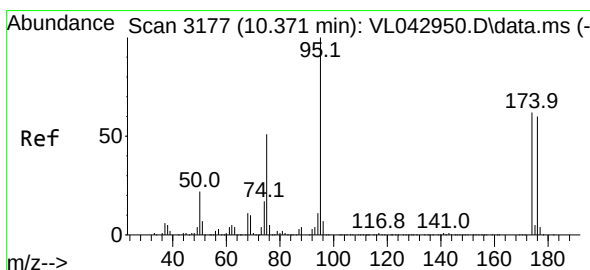
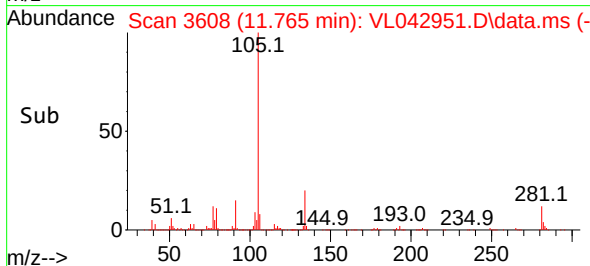
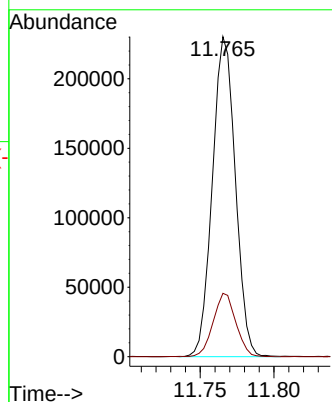
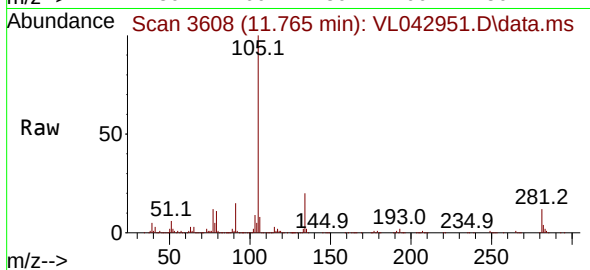
VSTDIC002

Tgt Ion:105 Resp: 249510

Ion Ratio Lower Upper

105 100

134 19.6 15.7 23.5



#68

1-Bromo-4-Fluorobenzene

Concen: 10.012 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

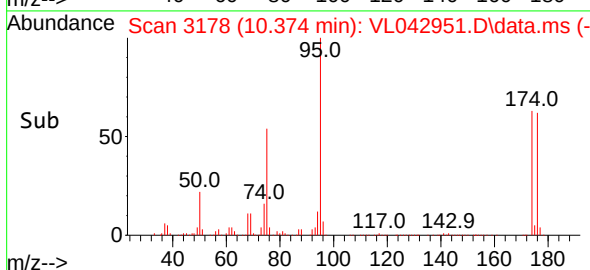
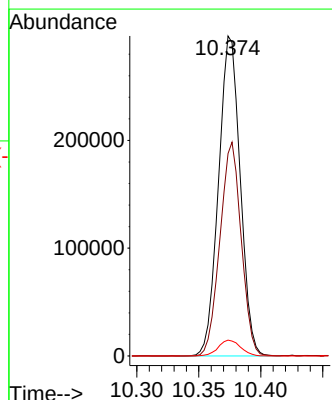
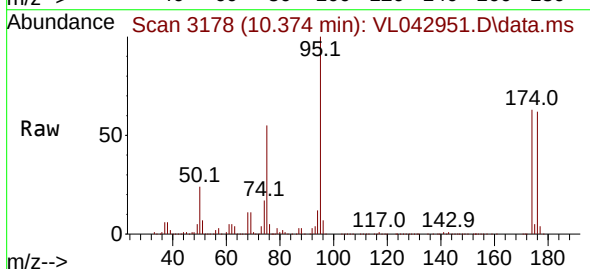
Tgt Ion: 95 Resp: 361586

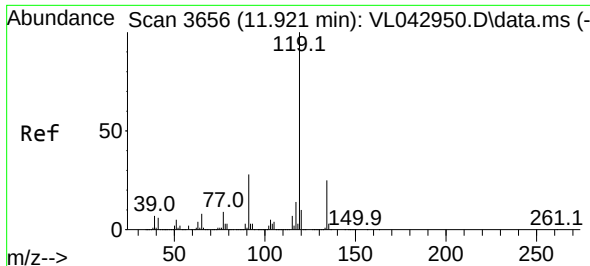
Ion Ratio Lower Upper

95 100

174 65.6 51.4 77.2

175 5.1 4.0 6.0

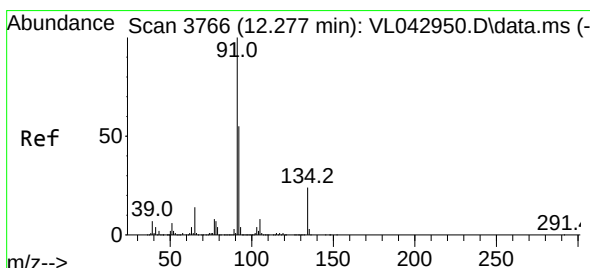
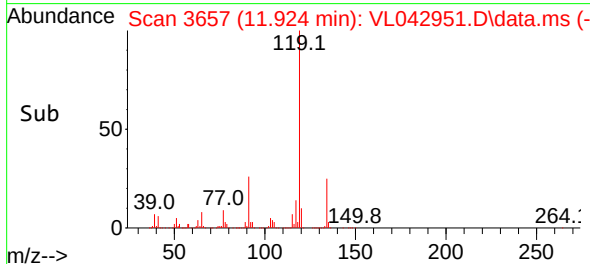
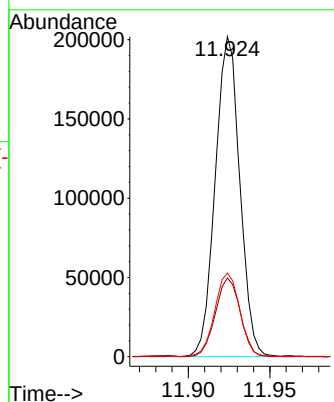
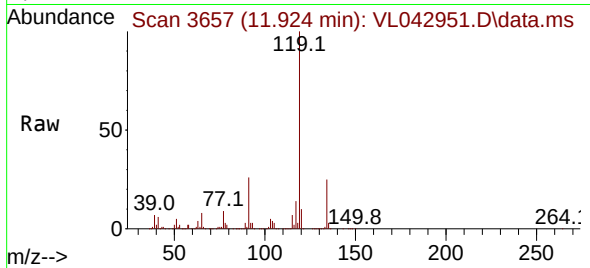




#69
p-Isopropyltoluene
Concen: 2.158 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

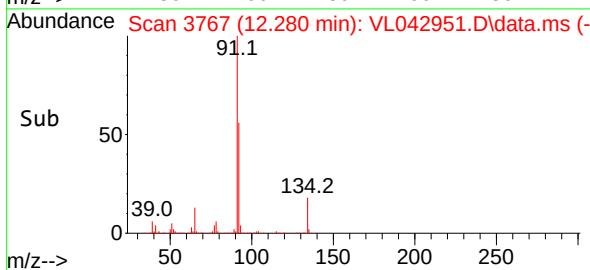
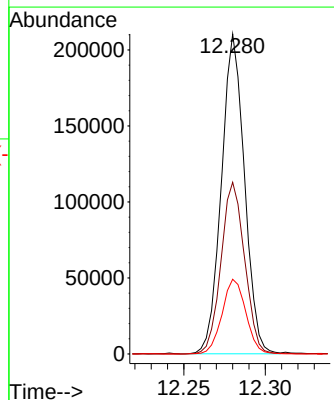
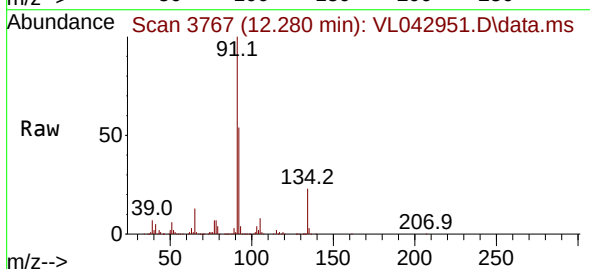
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

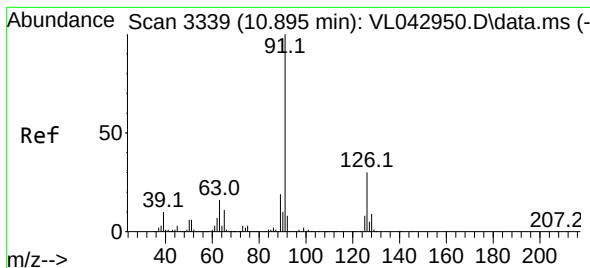
Tgt Ion:119 Resp: 210808
Ion Ratio Lower Upper
119 100
134 25.0 21.0 31.4
91 26.4 22.3 33.5



#70
n-Butylbenzene
Concen: 2.167 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion: 91 Resp: 206691
Ion Ratio Lower Upper
91 100
92 55.0 44.0 66.0
134 24.1 19.4 29.2





#71

2-Chlorotoluene

Concen: 2.099 ppbv

RT: 10.898 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

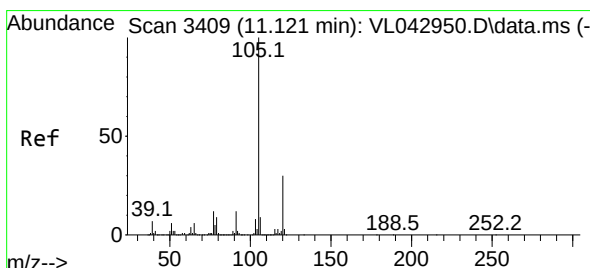
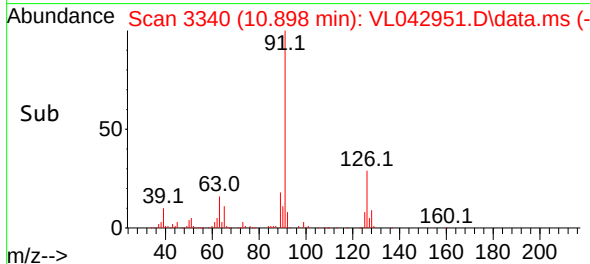
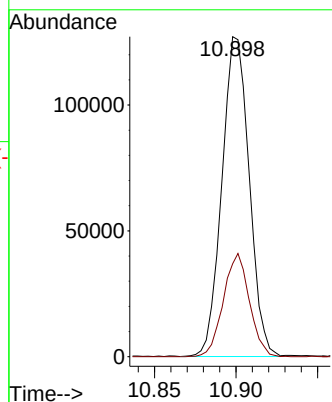
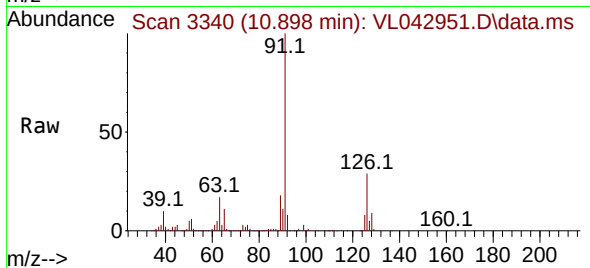
VSTDIC002

Tgt Ion: 91 Resp: 147901

Ion Ratio Lower Upper

91 100

126 30.7 12.3 49.3



#72

4-Ethyltoluene

Concen: 2.102 ppbv

RT: 11.124 min Scan# 3410

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Tgt Ion: 105 Resp: 164770

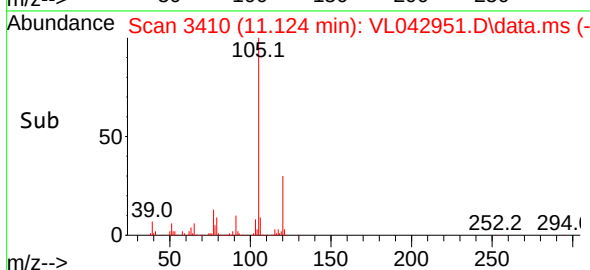
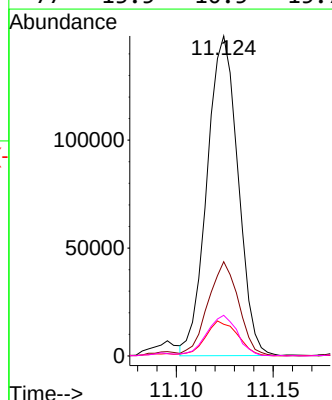
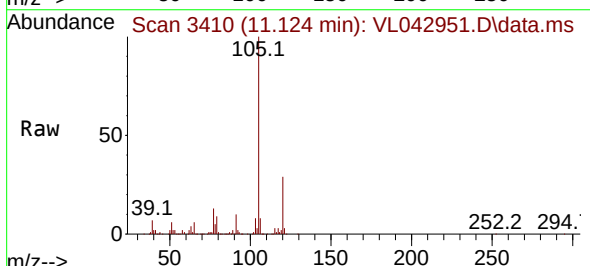
Ion Ratio Lower Upper

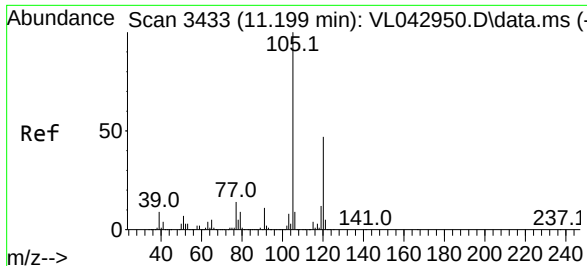
105 100

120 30.4 24.2 36.2

91 12.2 10.0 15.0

77 13.5 10.5 15.7

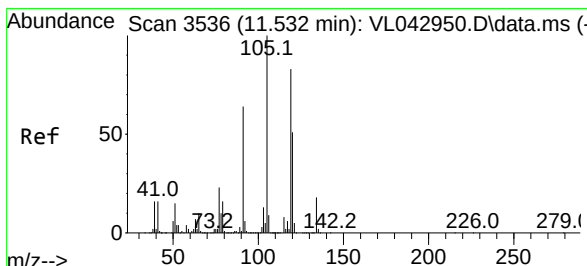
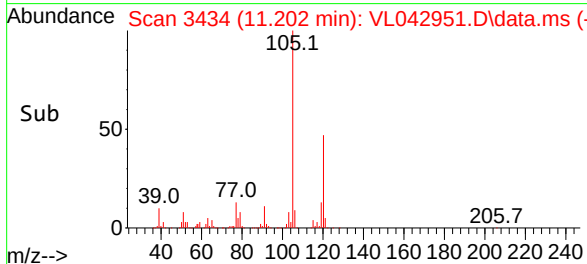
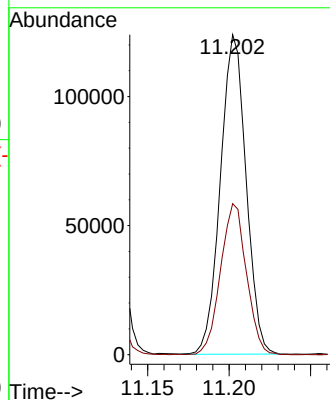
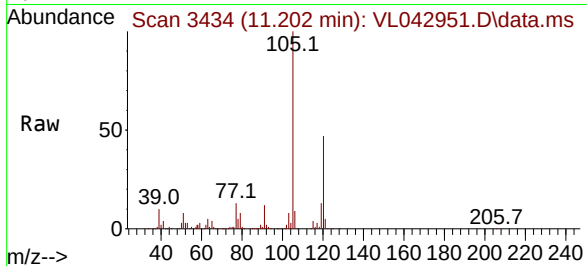




#73
 1,3,5-Trimethylbenzene
 Concen: 2.128 ppbv
 RT: 11.202 min Scan# 3434
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

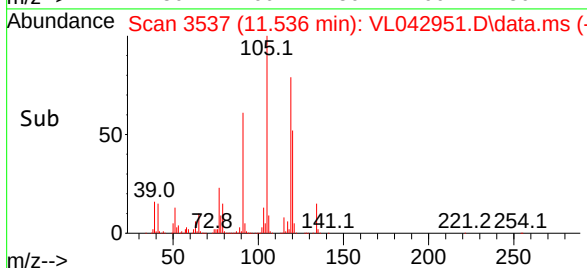
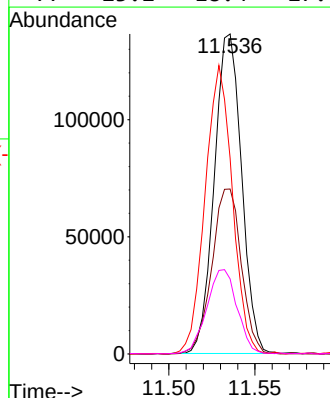
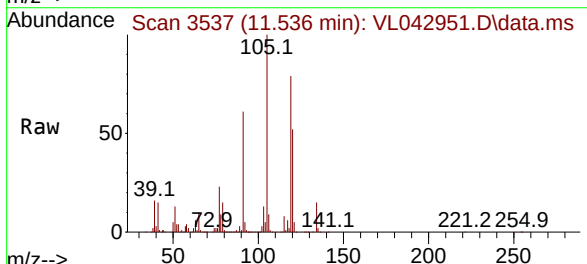
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

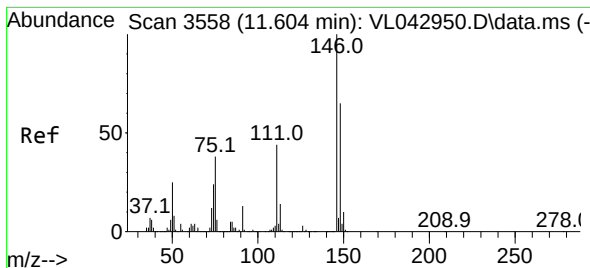
Tgt Ion:105 Resp: 135344
 Ion Ratio Lower Upper
 105 100
 120 47.3 38.0 57.0



#74
 1,2,4-Trimethylbenzene
 Concen: 2.147 ppbv
 RT: 11.536 min Scan# 3537
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

Tgt Ion:105 Resp: 150772
 Ion Ratio Lower Upper
 105 100
 120 51.6 40.9 61.3
 91 61.0 51.2 76.8
 77 23.2 18.4 27.6





#75

1,3-Dichlorobenzene

Concen: 2.124 ppbv

RT: 11.607 min Scan# 3558

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

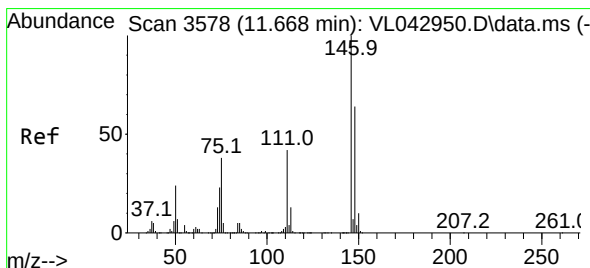
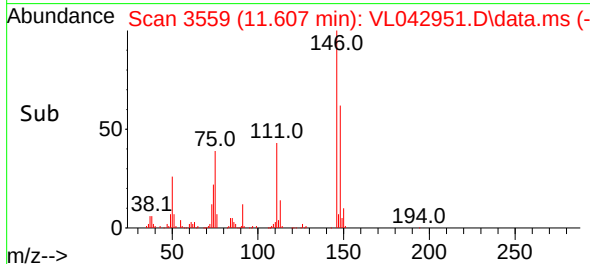
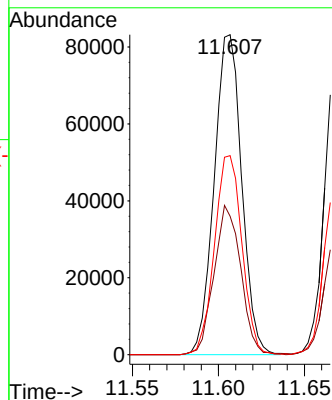
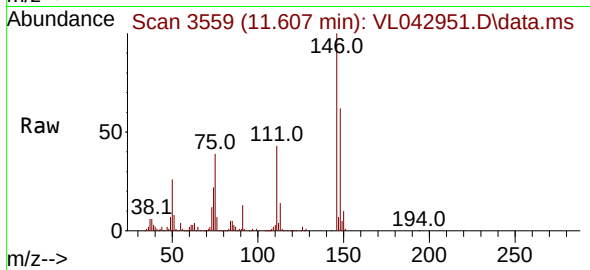
Tgt Ion:146 Resp: 92487

Ion Ratio Lower Upper

146 100

111 45.3 22.3 66.9

148 62.1 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 2.145 ppbv

RT: 11.671 min Scan# 3579

Delta R.T. 0.003 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

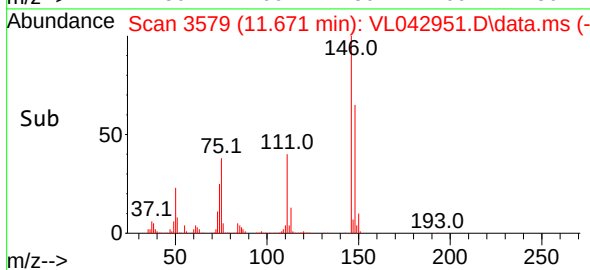
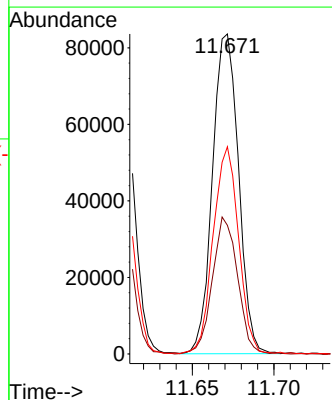
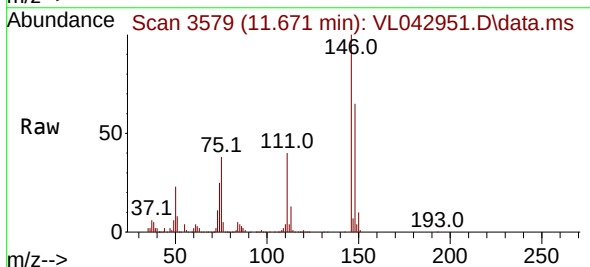
Tgt Ion:146 Resp: 92794

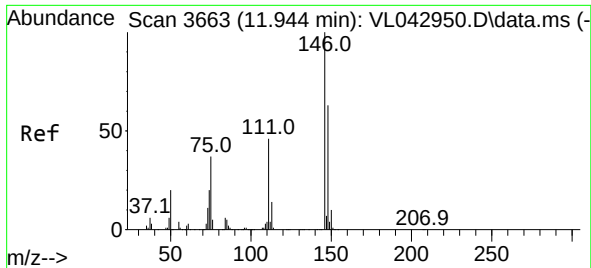
Ion Ratio Lower Upper

146 100

111 41.6 21.5 64.5

148 63.6 31.9 95.5

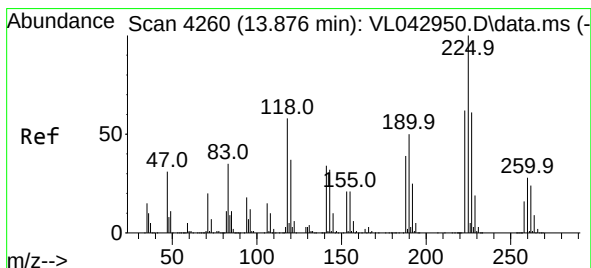
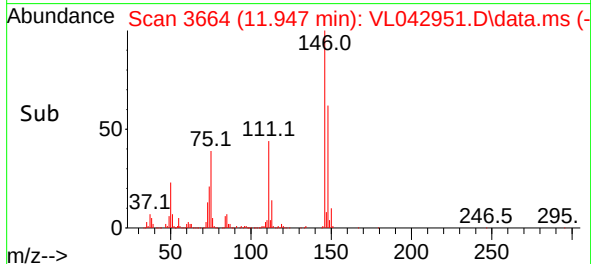
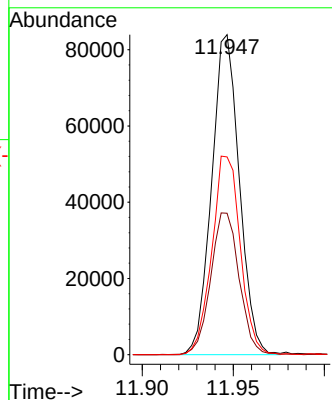
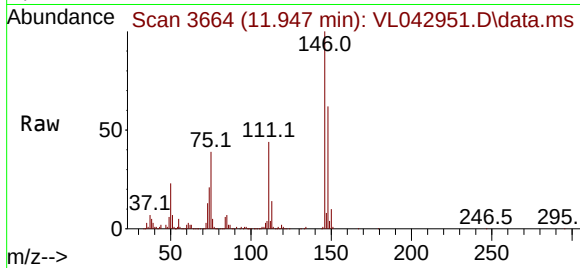




#77
1,2-Dichlorobenzene
Concen: 2.144 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

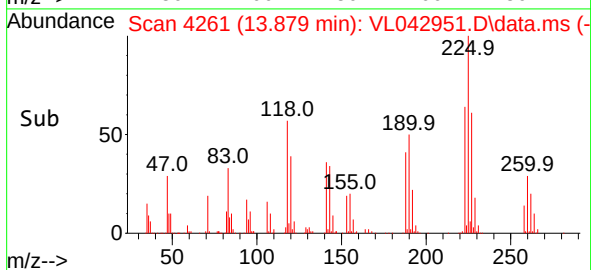
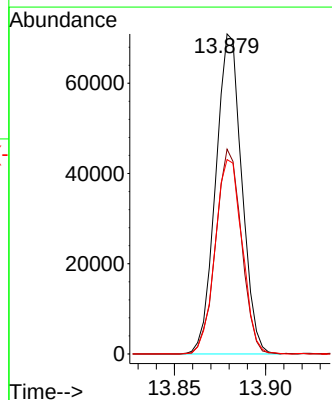
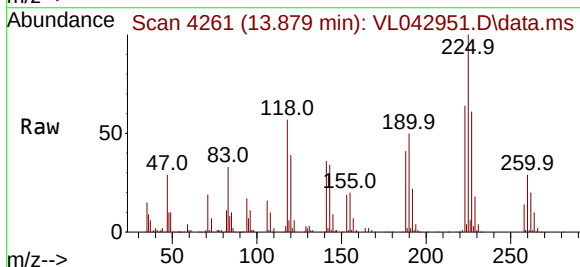
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

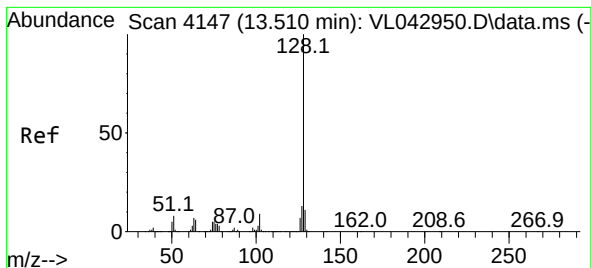
Tgt Ion:146 Resp: 88825
Ion Ratio Lower Upper
146 100
111 45.8 23.1 69.3
148 64.0 32.0 96.0



#78
Hexachloro-1,3-Butadiene
Concen: 2.175 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL042951.D
Acq: 22 Sep 2025 10:14

Tgt Ion:225 Resp: 70481
Ion Ratio Lower Upper
225 100
223 63.3 50.1 75.1
227 63.3 50.4 75.6





#79

Naphthalene

Concen: 2.297 ppbv

RT: 13.510 min Scan# 4147

Delta R.T. -0.000 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

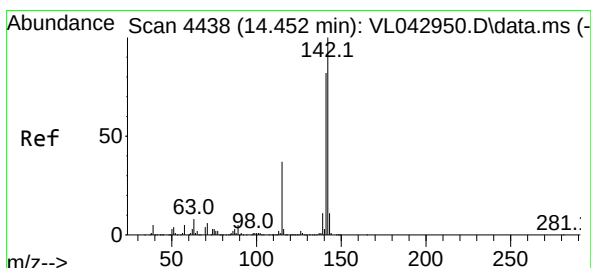
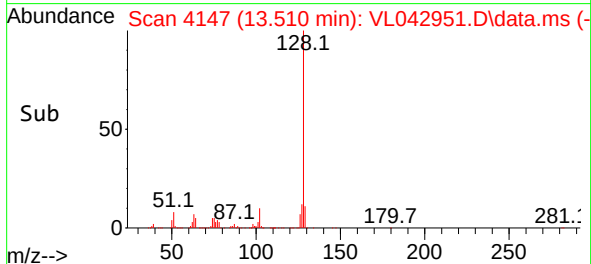
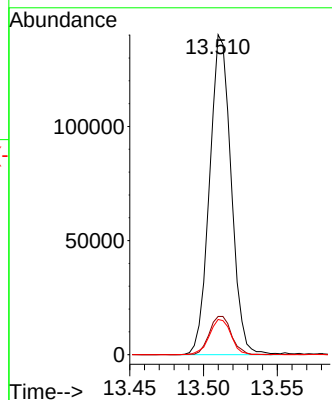
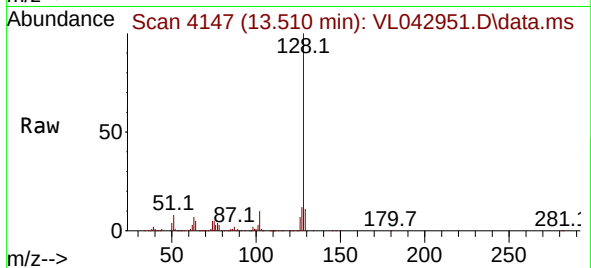
Tgt Ion:128 Resp: 142653

Ion Ratio Lower Upper

128 100

127 12.0 10.6 15.8

129 11.0 9.0 13.6



#80

Naphthalene,2-methyl-

Concen: 2.157 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. 0.006 min

Lab File: VL042951.D

Acq: 22 Sep 2025 10:14

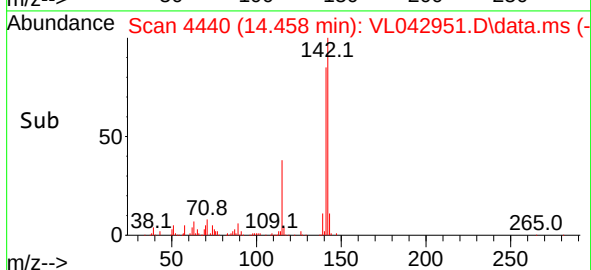
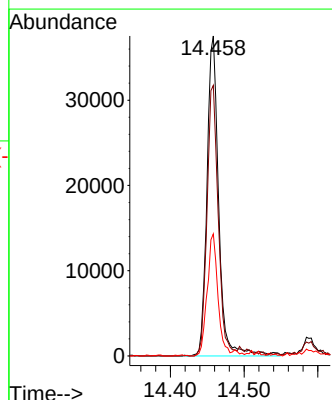
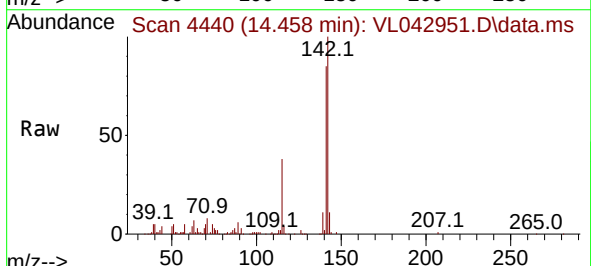
Tgt Ion:142 Resp: 41369

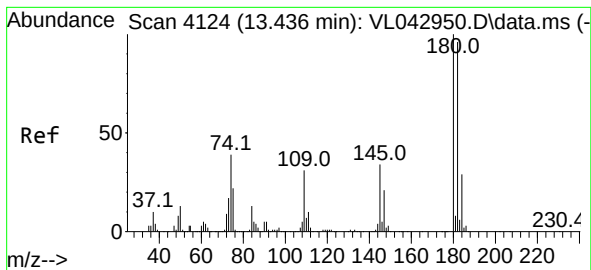
Ion Ratio Lower Upper

142 100

141 83.8 65.1 97.7

115 36.1 28.9 43.3

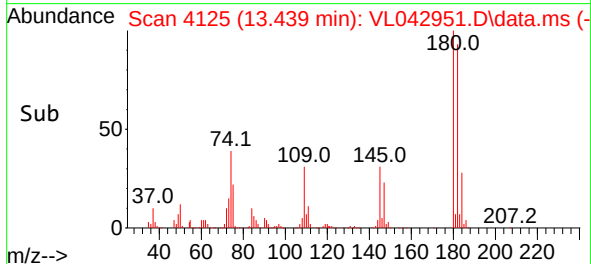
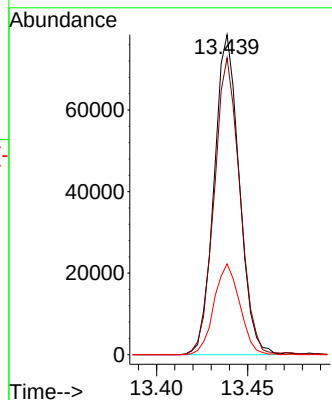
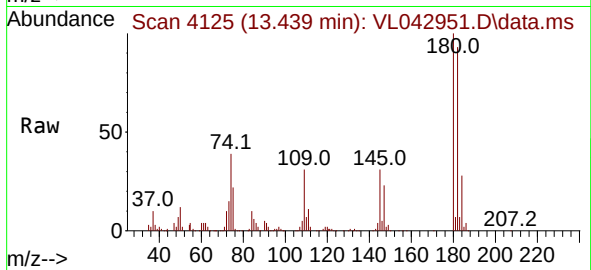




#81
 1,2,4-Trichlorobenzene
 Concen: 2.263 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042951.D
 Acq: 22 Sep 2025 10:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:180 Resp: 75139
 Ion Ratio Lower Upper
 180 100
 182 95.4 75.7 113.5
 184 29.0 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042952.D
 Acq On : 22 Sep 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Sep 23 02:10:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	162797	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	511767	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	469265	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	348878	9.960	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	23644	1.080	ppbv	97
3) Chlorodifluoromethane	1.476	51	29646	1.086	ppbv	99
4) Chloromethane	1.531	50	10120	1.021	ppbv	97
5) Vinyl Chloride	1.580	62	9228	1.030	ppbv	99
6) Bromomethane	1.667	94	3493	1.105	ppbv	96
7) Chloroethane	1.703	64	3872	1.113	ppbv #	81
8) Dichlorotetrafluoroethane	1.554	85	20172	1.079	ppbv	97
9) Propene	1.482	41	12808	1.079	ppbv	92
10) Heptane	4.972	43	22885	0.719	ppbv #	58
11) Trichlorofluoromethane	1.874	101	22397	1.061	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	18180	1.063	ppbv	99
13) Ethanol	1.719	45	1463	1.286	ppbv #	33
14) Bromoethene	1.780	108	6783	1.049	ppbv #	87
15) Acetone	1.832	43	25273	1.192	ppbv	99
16) 1,3-Butadiene	1.609	39	10993	1.099	ppbv	88
17) tert-Butyl alcohol	2.039	59	25141	1.081	ppbv #	88
18) 1,1-Dichloroethene	2.033	96	8192	1.035	ppbv	96
19) Isopropyl Alcohol	1.884	45	13241	1.039	ppbv #	41
20) Methylene Chloride	2.059	84	10045	0.985	ppbv	97
21) Allyl Chloride	2.094	41	15801	1.070	ppbv	95
22) trans-1,2-Dichloroethene	2.337	96	9960	1.108	ppbv	96
23) Vinyl Acetate	2.457	43	30884	1.020	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	19077	1.082	ppbv	99
25) Ethyl Acetate	2.832	43	56877	1.061	ppbv	97
26) Hexane	2.822	57	26276	1.076	ppbv	96
27) Carbon Disulfide	2.149	76	23373	1.067	ppbv #	32
28) Methyl tert-Butyl Ether	2.441	73	12580	0.991	ppbv #	86
29) Chloroform	2.842	83	33240	1.041	ppbv	99
30) Cyclohexane	3.855	84	21707	1.063	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	23828	1.041	ppbv	96
32) 1,1,1-Trichloroethane	3.360	97	35233	1.018	ppbv	97
34) 2-Butanone	2.554	43	37431	1.044	ppbv	97
35) Carbon Tetrachloride	3.758	117	34016	1.033	ppbv	96
36) Benzene	3.651	78	49652	1.033	ppbv	100
37) 1,2-Dichloroethane	3.214	62	26482	1.048	ppbv	98
38) Trichloroethene	4.538	130	23906	1.001	ppbv	98
39) 1,2-Dichloropropane	4.302	63	10275	0.585	ppbv	94
40) 1,4-Dioxane	4.583	88	3579	0.439	ppbv #	3
41) Tetrahydrofuran	3.055	42	20845	1.011	ppbv	98
42) Bromodichloromethane	4.480	83	20848	0.592	ppbv	90
43) Methyl Methacrylate	4.871	69	20289	1.040	ppbv	98
44) 2,2,4-Trimethylpentane	4.635	57	84970	1.023	ppbv	96
45) t-1,3-Dichloropropene	6.402	75	11857	0.565	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042952.D
 Acq On : 22 Sep 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

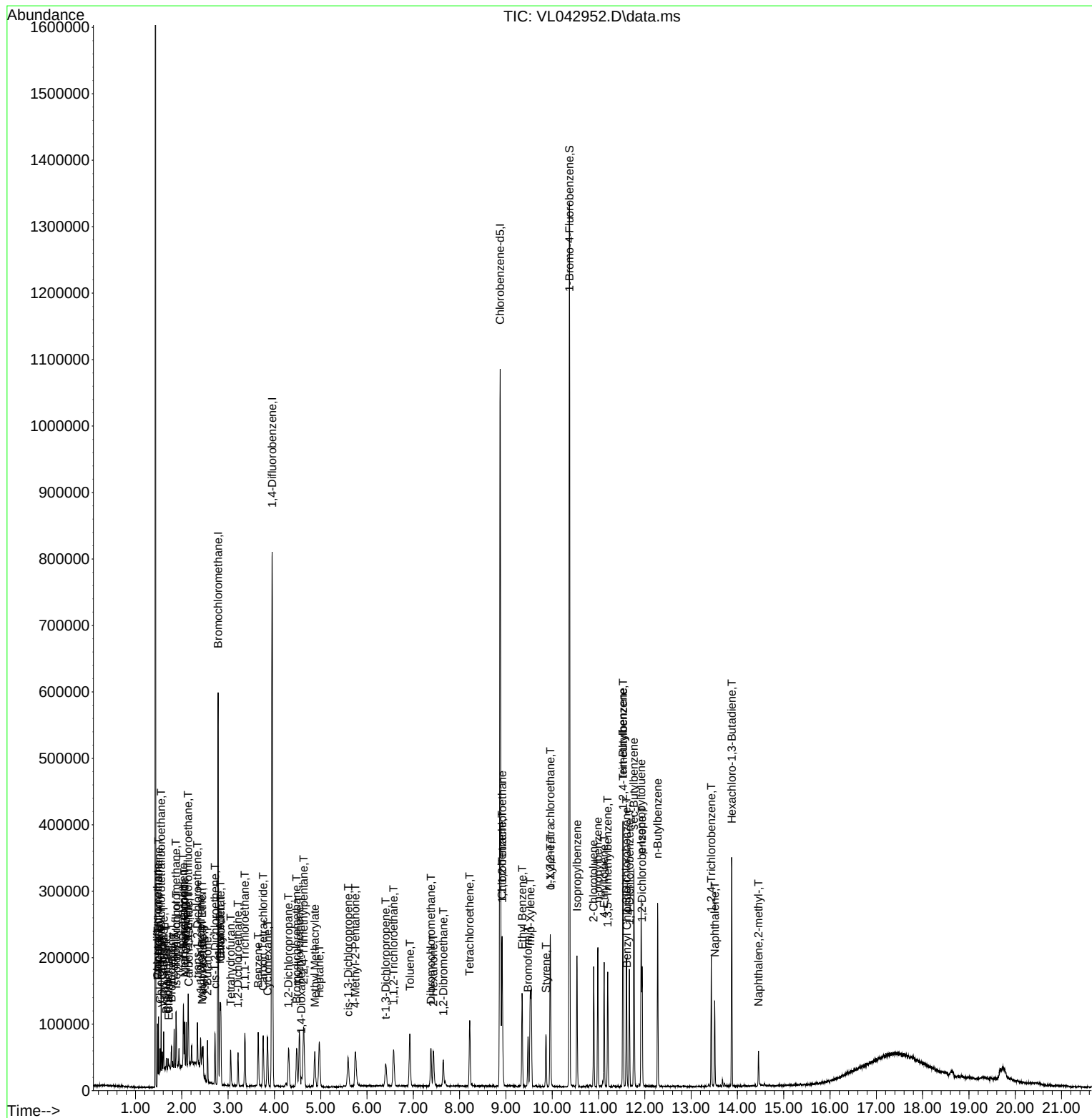
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

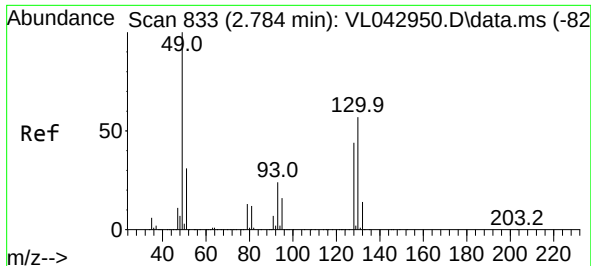
Quant Time: Sep 23 02:10:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	10544	0.395	ppbv	94
47) 1,1,2-Trichloroethane	6.574	97	19311	1.041	ppbv	96
48) Dibromochloromethane	7.383	129	30015	1.012	ppbv	99
49) Bromoform	9.477	173	25929	1.005	ppbv	98
50) 4-Methyl-2-Pentanone	5.748	43	48546	1.007	ppbv	98
51) 2-Hexanone	7.431	43	39627	1.034	ppbv #	99
52) Tetrachloroethene	8.218	164	18188	0.978	ppbv	97
53) Toluene	6.926	91	58200	1.023	ppbv	100
54) 1,2-Dibromoethane	7.645	107	26608	1.020	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.920	131	22802	1.015	ppbv	94
57) Chlorobenzene	8.914	112	45873	1.071	ppbv	98
58) Ethyl Benzene	9.351	91	80473	1.044	ppbv	97
59) m/p-Xylene	9.529	91	74868	1.231	ppbv #	100
60) o-Xylene	9.959	91	64703	1.066	ppbv	99
61) Styrene	9.869	104	29061	1.012	ppbv	98
62) Isopropylbenzene	10.535	105	96621	1.068	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	31695	0.993	ppbv	96
64) n-propylbenzene	10.985	120	24820	1.049	ppbv	98
65) tert-Butylbenzene	11.526	119	86303	1.072	ppbv	99
66) Benzyl Chloride	11.610	91	8140	0.964	ppbv	100
67) sec-Butylbenzene	11.762	105	120070	1.070	ppbv	100
69) p-Isopropyltoluene	11.921	119	101749	1.074	ppbv	99
70) n-Butylbenzene	12.277	91	98908	1.069	ppbv	99
71) 2-Chlorotoluene	10.895	91	70577	1.033	ppbv	98
72) 4-Ethyltoluene	11.121	105	79095	1.040	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	63174	1.024	ppbv	98
74) 1,2,4-Trimethylbenzene	11.532	105	71411	1.049	ppbv	95
75) 1,3-Dichlorobenzene	11.603	146	44769	1.060	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	42879	1.022	ppbv	97
77) 1,2-Dichlorobenzene	11.940	146	42911	1.068	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	34798	1.107	ppbv	99
79) Naphthalene	13.510	128	61925	1.028	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	17116	0.920	ppbv	97
81) 1,2,4-Trichlorobenzene	13.435	180	32411	1.007	ppbv	97

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

Quant Time: Sep 23 02:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

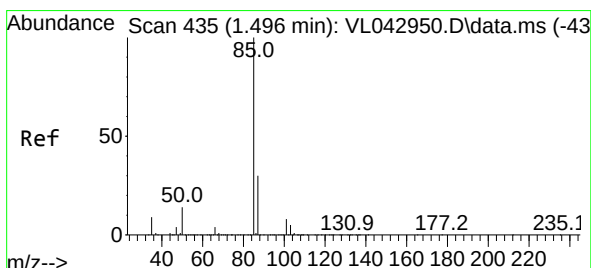
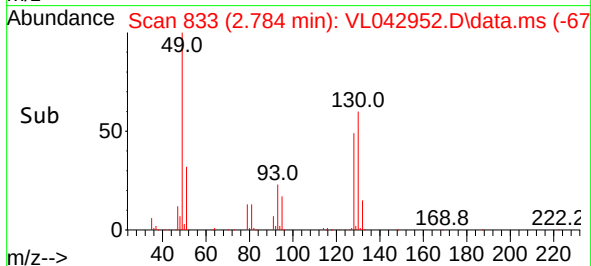
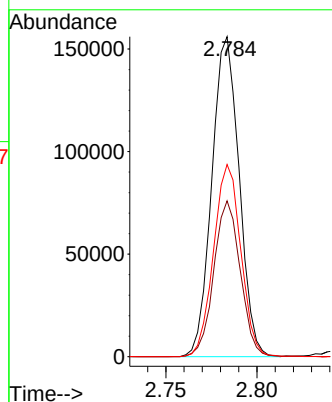
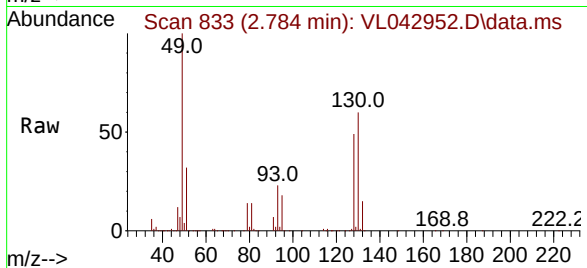




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

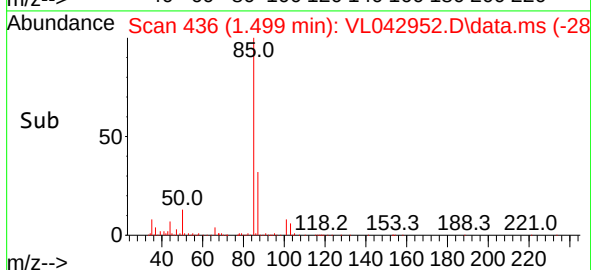
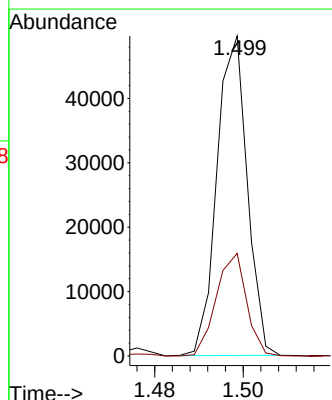
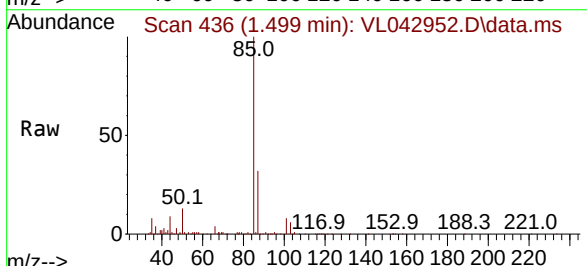
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

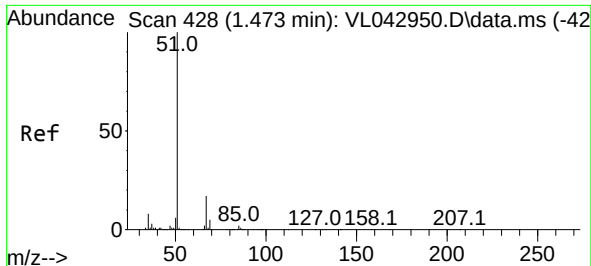
Tgt Ion: 49 Resp: 162797
Ion Ratio Lower Upper
49 100
128 47.3 22.9 68.8
130 60.1 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 1.080 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 85 Resp: 23644
Ion Ratio Lower Upper
85 100
87 32.1 24.3 36.5

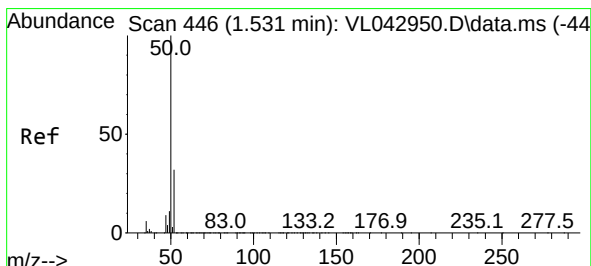
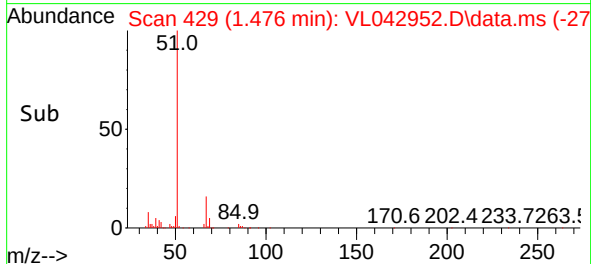
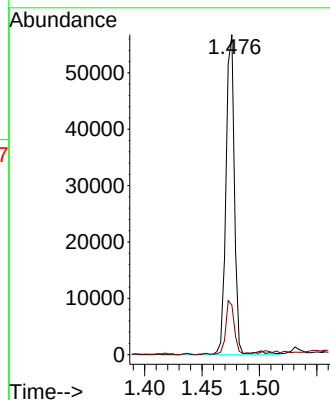
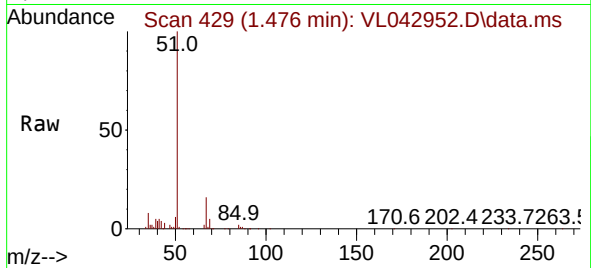




#3
Chlorodifluoromethane
Concen: 1.086 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

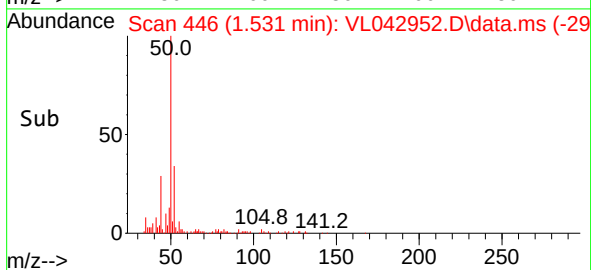
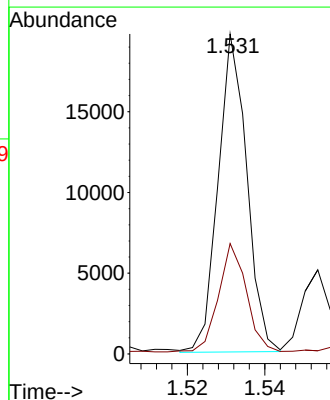
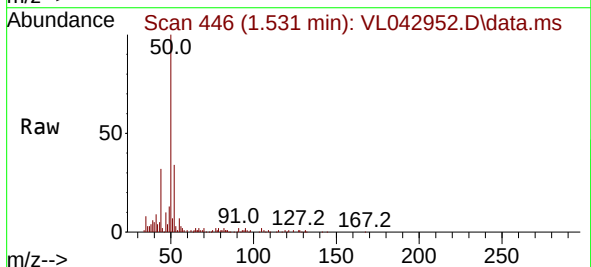
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

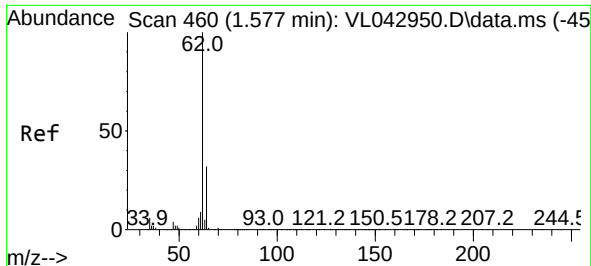
Tgt Ion: 51 Resp: 29646
Ion Ratio Lower Upper
51 100
67 17.9 13.8 20.8



#4
Chloromethane
Concen: 1.021 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 50 Resp: 10120
Ion Ratio Lower Upper
50 100
52 33.9 25.9 38.9

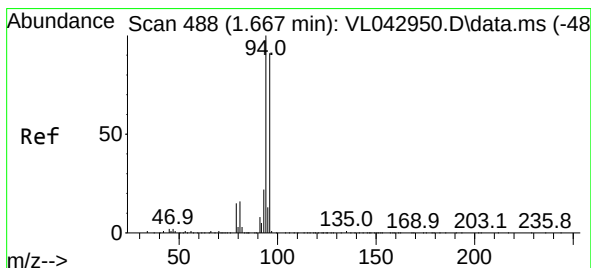
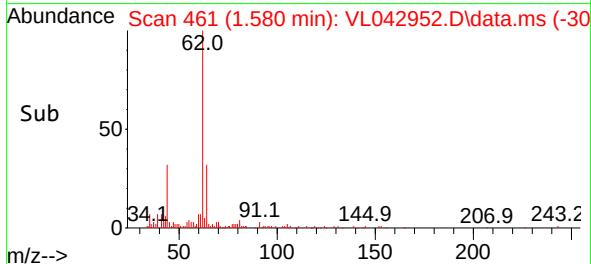
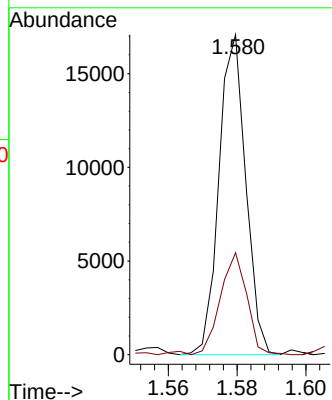
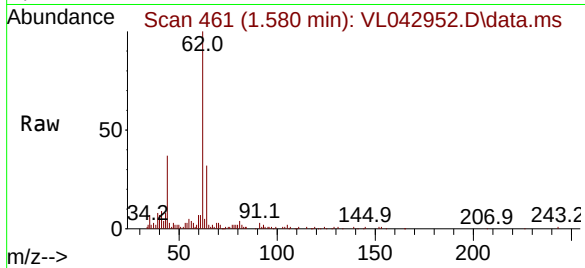




#5
 Vinyl Chloride
 Concen: 1.030 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

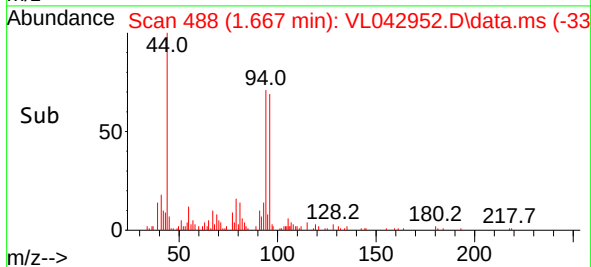
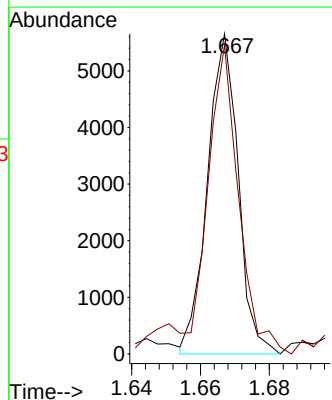
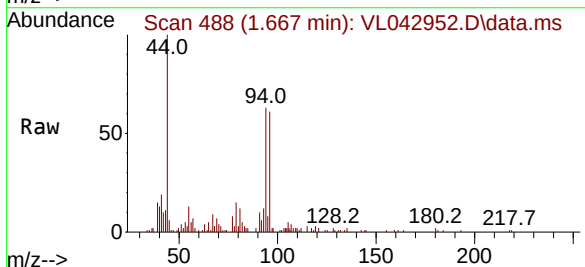
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

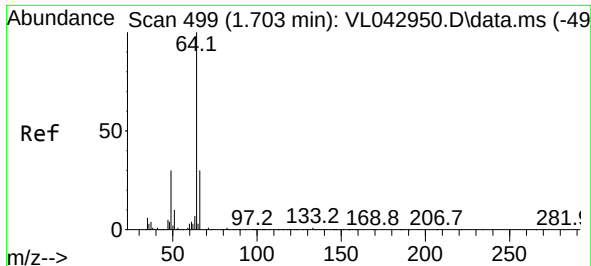
Tgt Ion: 62 Resp: 9228
 Ion Ratio Lower Upper
 62 100
 64 31.4 25.4 38.2



#6
 Bromomethane
 Concen: 1.105 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

Tgt Ion: 94 Resp: 3493
 Ion Ratio Lower Upper
 94 100
 96 94.4 72.6 108.8

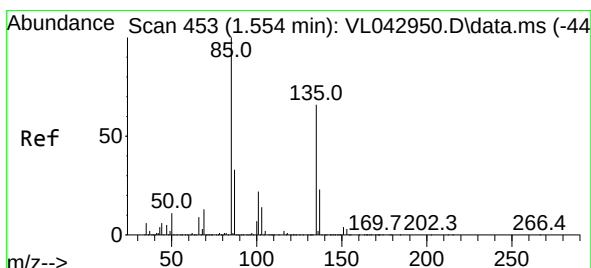
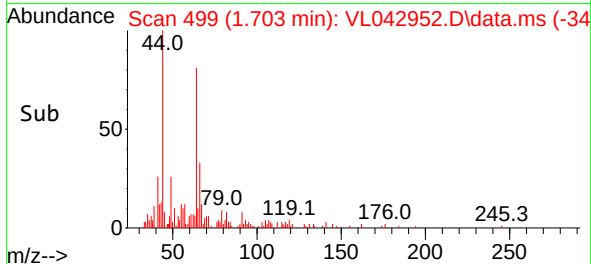
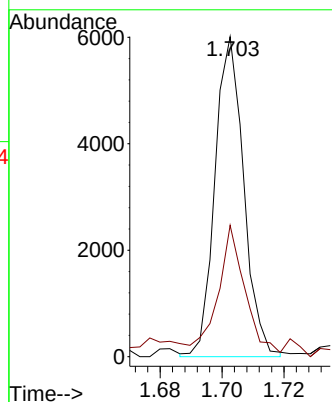
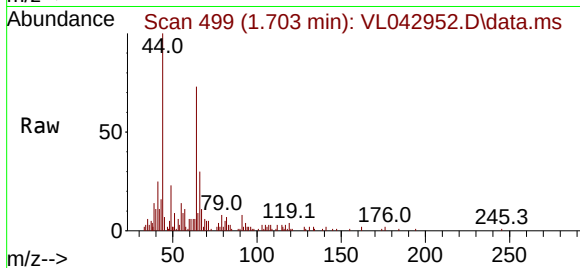




#7
Chloroethane
Concen: 1.113 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

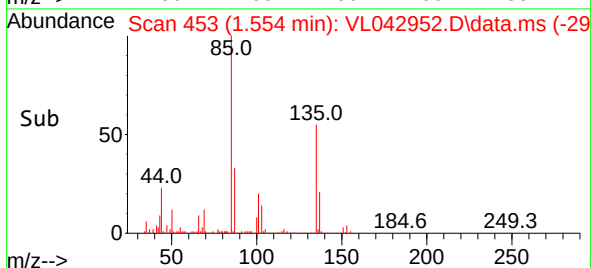
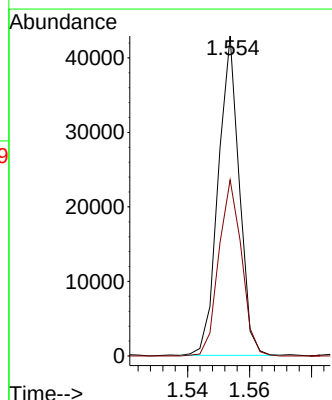
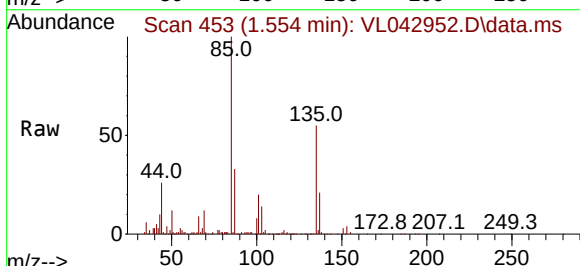
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

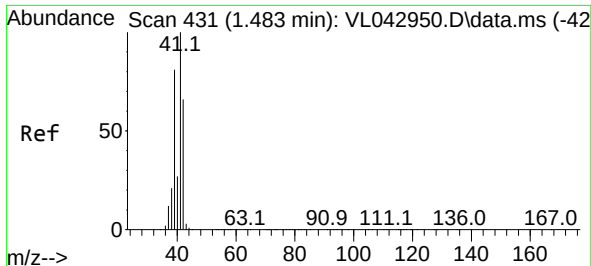
Tgt Ion: 64 Resp: 3872
Ion Ratio Lower Upper
64 100
66 41.0 24.6 36.8#



#8
Dichlorotetrafluoroethane
Concen: 1.079 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 85 Resp: 20172
Ion Ratio Lower Upper
85 100
135 59.9 49.7 74.5





#9

Propene

Concen: 1.079 ppbv

RT: 1.482 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

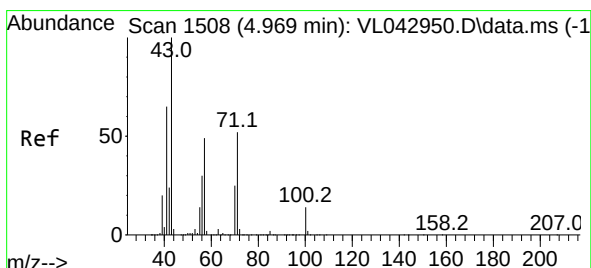
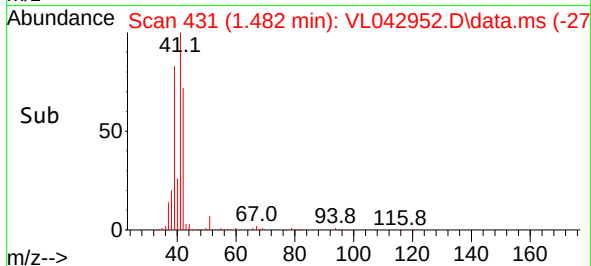
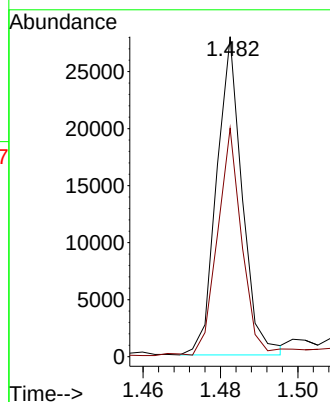
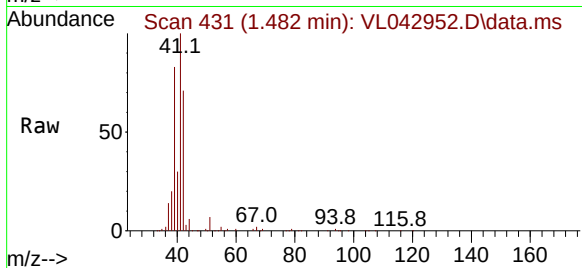
VSTDIC001

Tgt Ion: 41 Resp: 12808

Ion Ratio Lower Upper

41 100

42 78.5 57.4 86.2



#10

Heptane

Concen: 0.719 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. 0.003 min

Lab File: VL042952.D

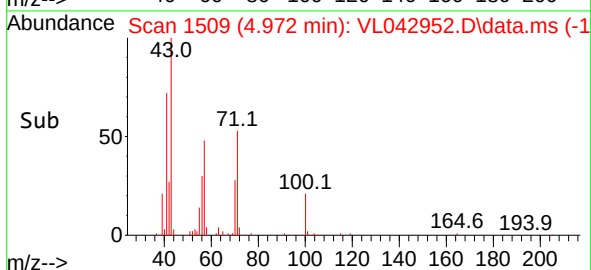
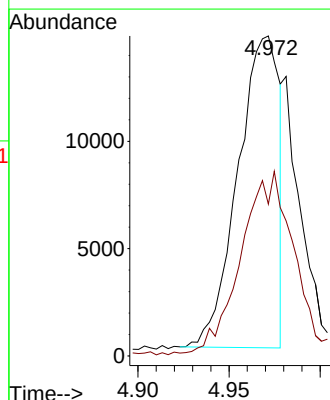
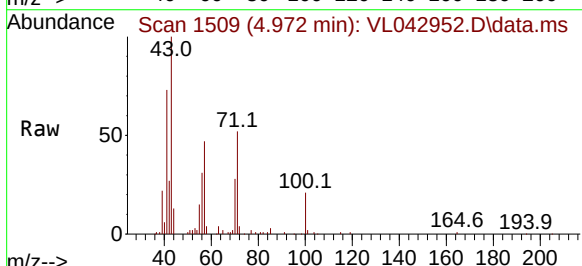
Acq: 22 Sep 2025 10:48

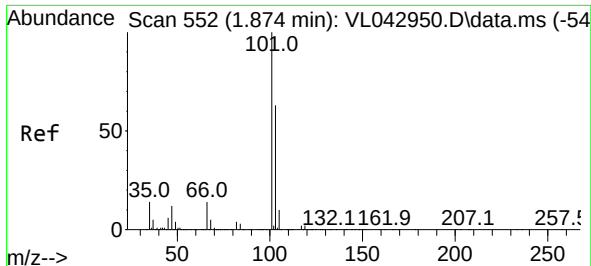
Tgt Ion: 43 Resp: 22885

Ion Ratio Lower Upper

43 100

57 76.9 38.6 57.8#

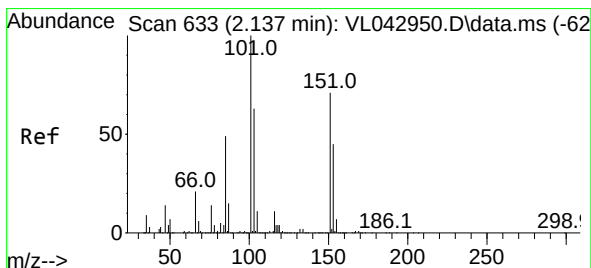
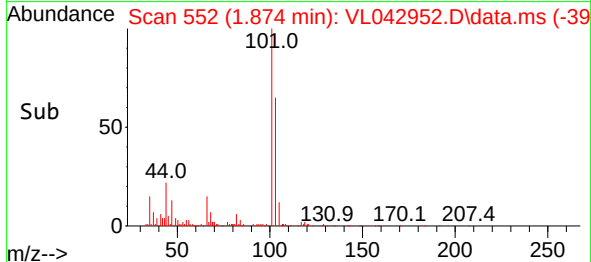
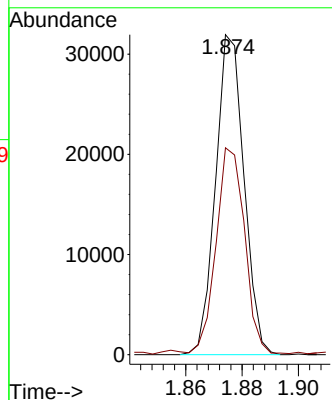
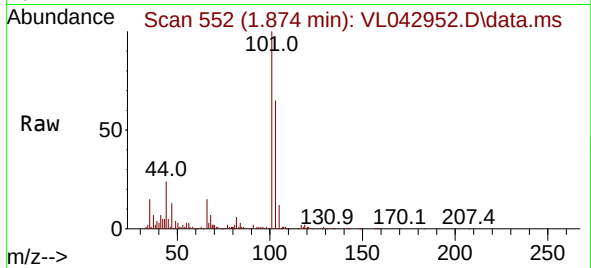




#11
 Trichlorofluoromethane
 Concen: 1.061 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

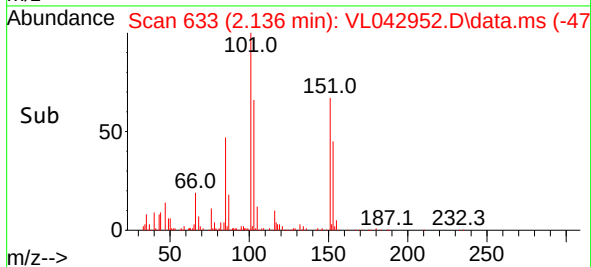
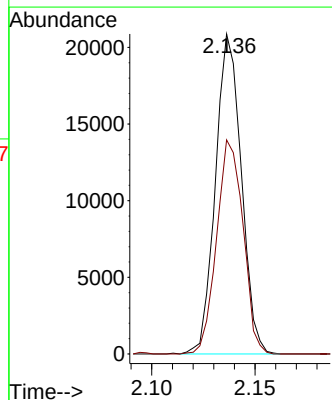
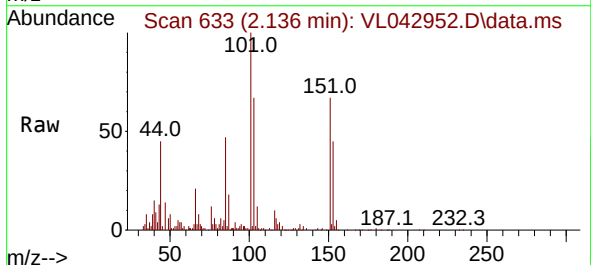
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

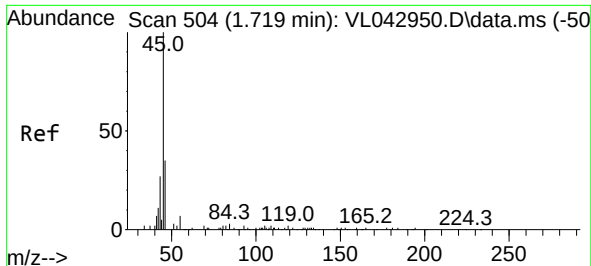
Tgt Ion:101 Resp: 22397
 Ion Ratio Lower Upper
 101 100
 103 64.2 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.063 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

Tgt Ion:101 Resp: 18180
 Ion Ratio Lower Upper
 101 100
 151 68.7 55.7 83.5





#13

Ethanol

Concen: 1.286 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

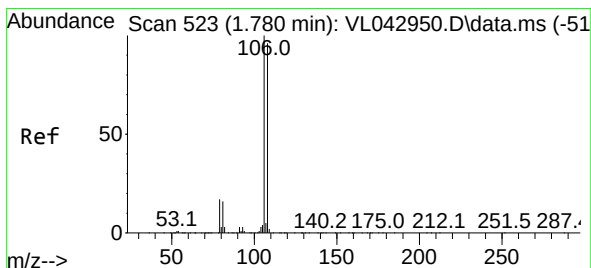
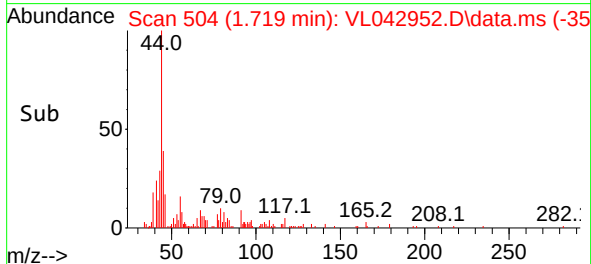
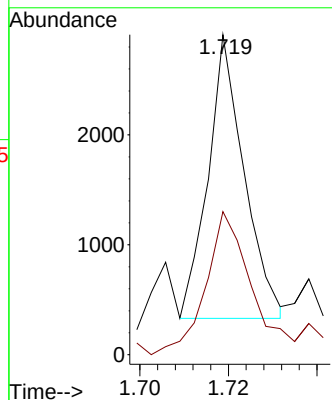
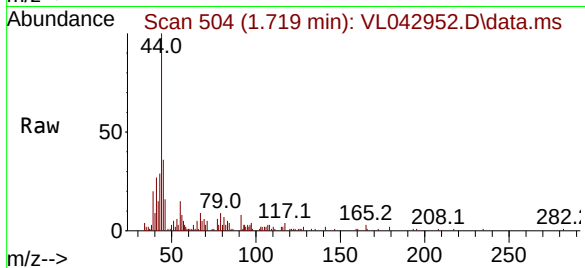
VSTDIC001

Tgt Ion: 45 Resp: 1463

Ion Ratio Lower Upper

45 100

46 82.0 16.2 64.6#



#14

Bromoethene

Concen: 1.049 ppbv

RT: 1.780 min Scan# 523

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

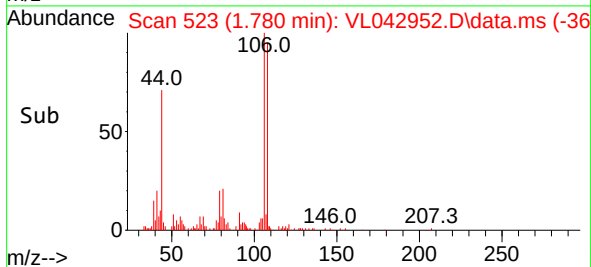
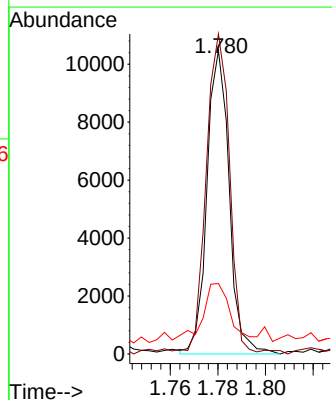
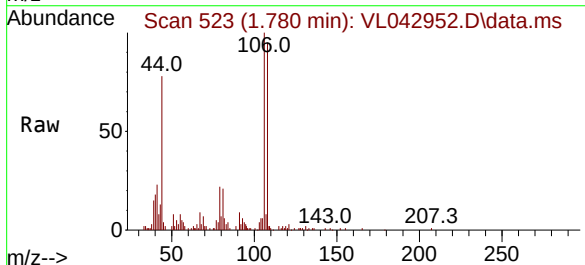
Tgt Ion: 108 Resp: 6783

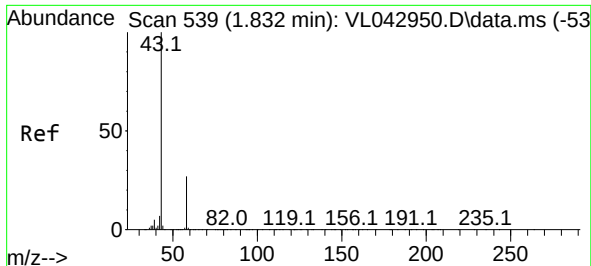
Ion Ratio Lower Upper

108 100

106 110.6 86.0 129.0

79 50.8 14.2 21.2#

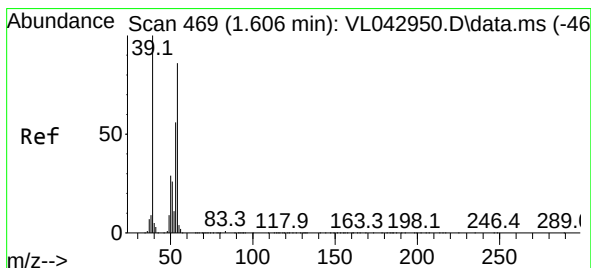
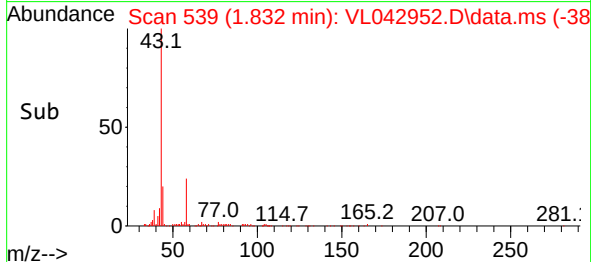
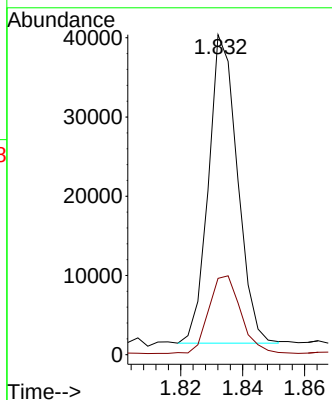
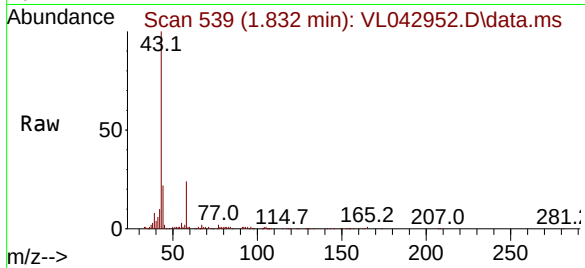




#15
Acetone
Concen: 1.192 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

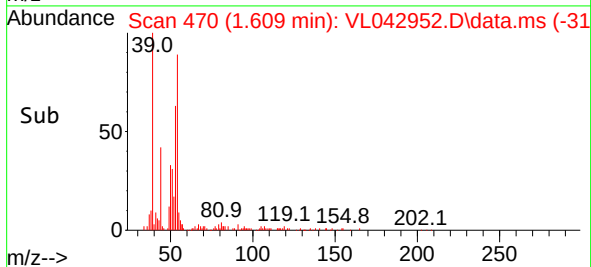
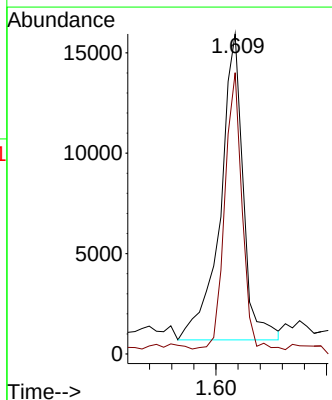
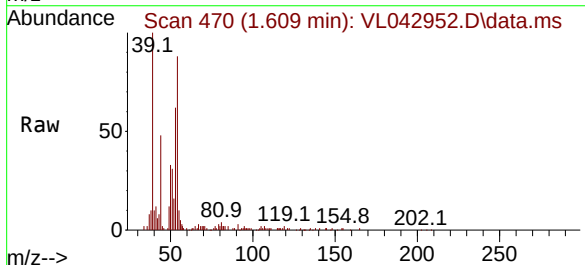
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

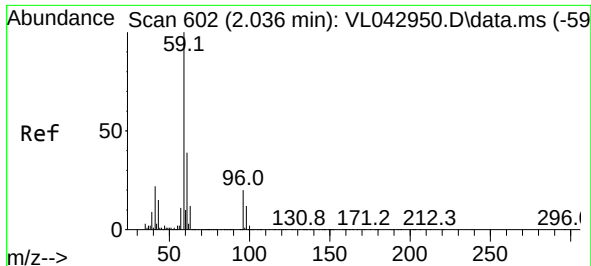
Tgt Ion: 43 Resp: 25273
Ion Ratio Lower Upper
43 100
58 28.3 22.3 33.5



#16
1,3-Butadiene
Concen: 1.099 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 39 Resp: 10993
Ion Ratio Lower Upper
39 100
54 86.7 60.8 91.2





#17

tert-Butyl alcohol

Concen: 1.081 ppbv

RT: 2.039 min Scan# 60

Delta R.T. 0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

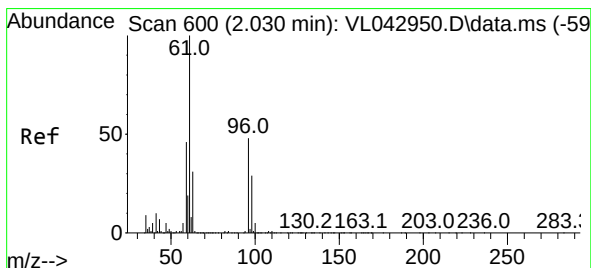
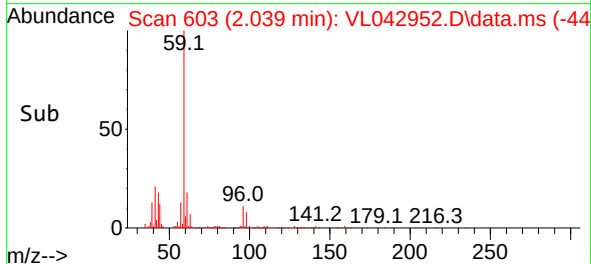
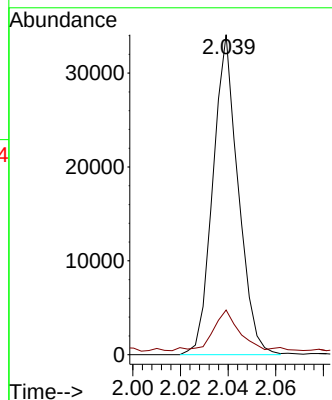
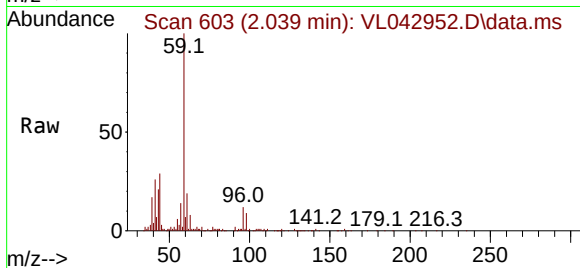
VSTDIC001

Tgt Ion: 59 Resp: 25141

Ion Ratio Lower Upper

59 100

57 15.0 8.6 12.8#



#18

1,1-Dichloroethene

Concen: 1.035 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

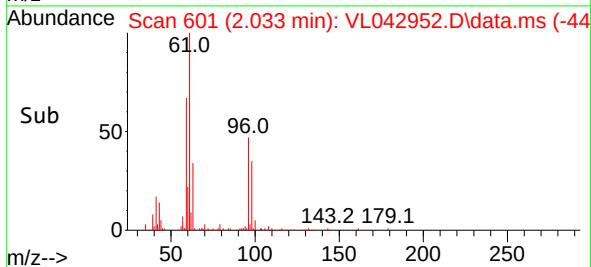
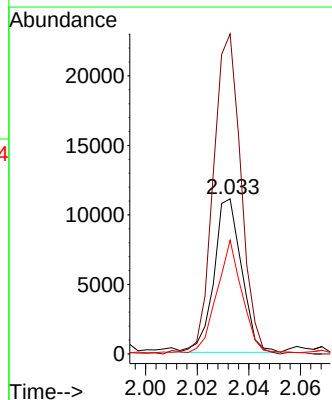
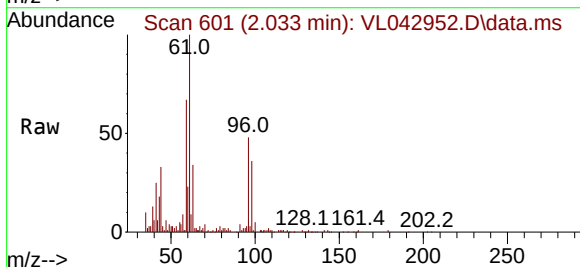
Tgt Ion: 96 Resp: 8192

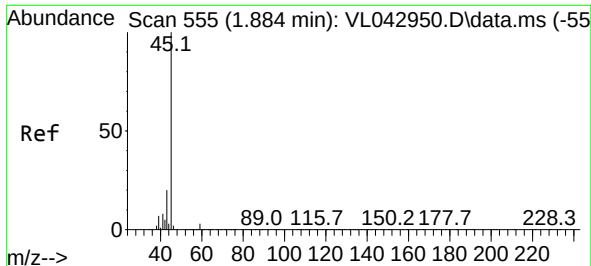
Ion Ratio Lower Upper

96 100

61 208.7 166.2 249.4

98 72.8 48.6 73.0

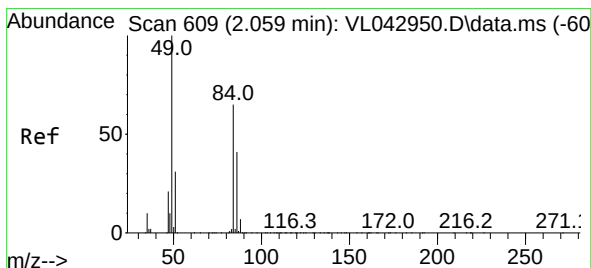
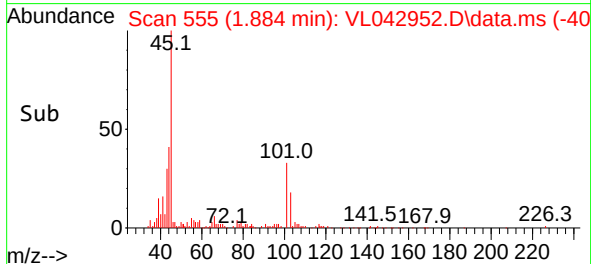
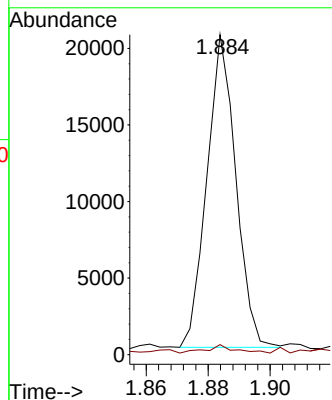
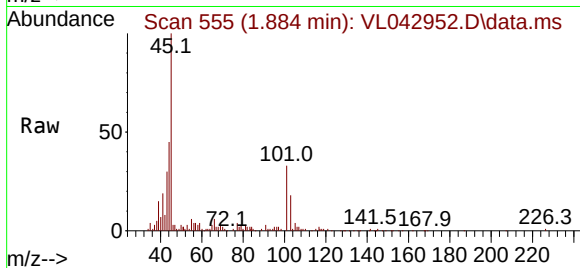




#19
Isopropyl Alcohol
Concen: 1.039 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

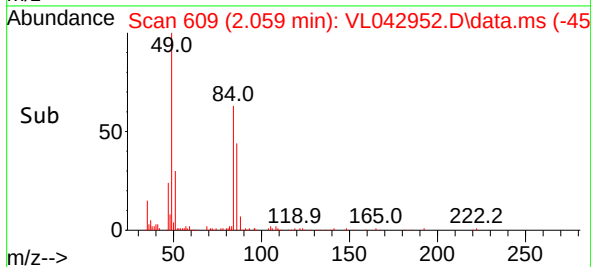
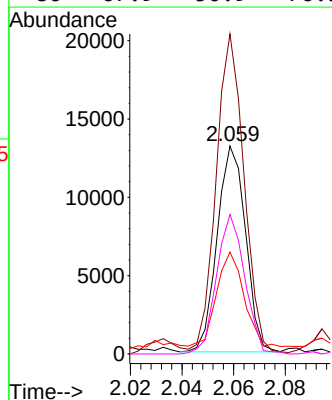
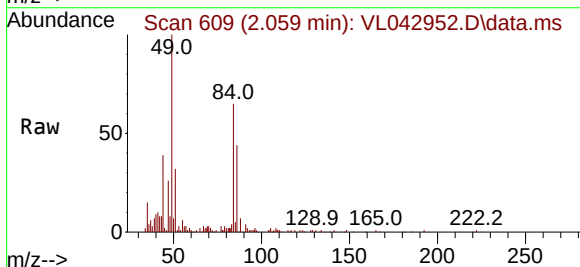
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

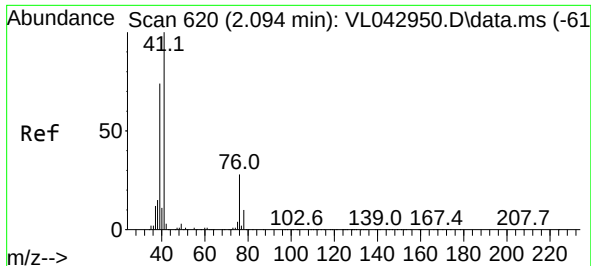
Tgt Ion: 45 Resp: 13241
Ion Ratio Lower Upper
45 100
58 2.6 31.0 46.6#



#20
Methylene Chloride
Concen: 0.985 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 84 Resp: 10045
Ion Ratio Lower Upper
84 100
49 154.6 124.1 186.1
51 45.9 39.8 59.8
86 67.9 50.9 76.3

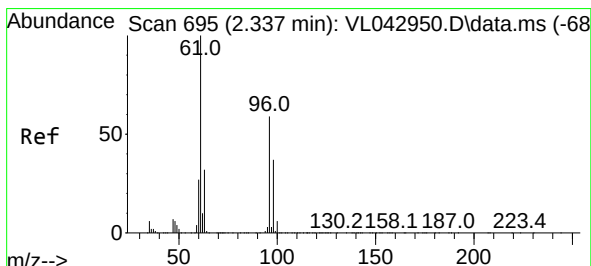
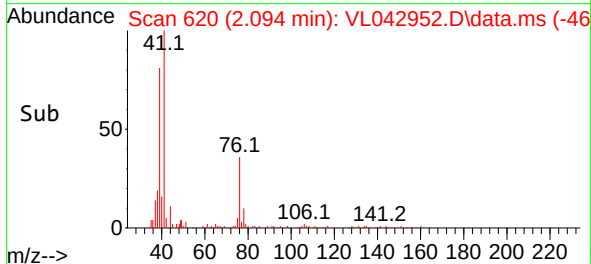
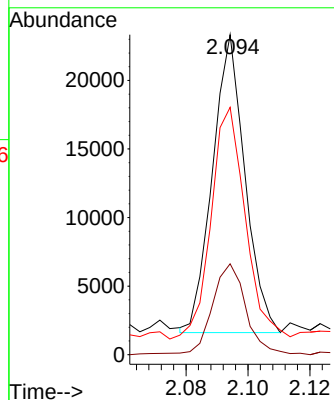
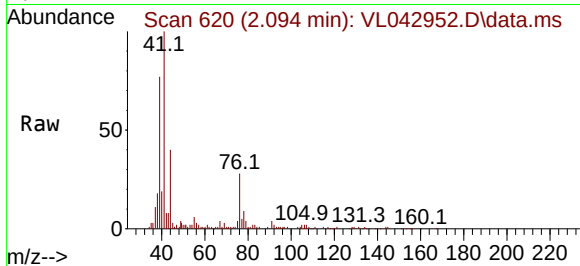




#21
 Allyl Chloride
 Concen: 1.070 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

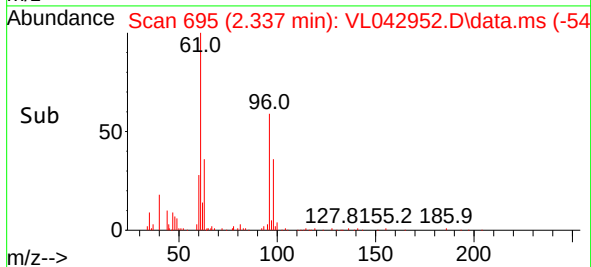
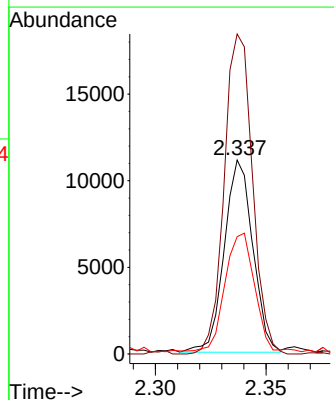
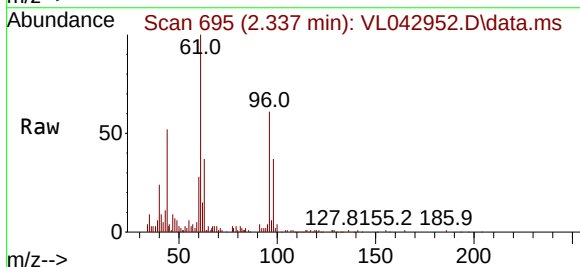
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

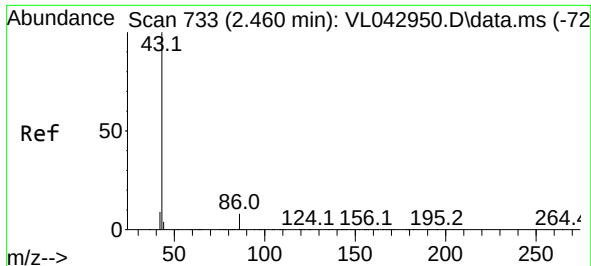
Tgt Ion: 41 Resp: 15801
 Ion Ratio Lower Upper
 41 100
 76 31.8 22.3 33.5
 39 80.7 61.3 91.9



#22
 trans-1,2-Dichloroethene
 Concen: 1.108 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

Tgt Ion: 96 Resp: 9960
 Ion Ratio Lower Upper
 96 100
 61 166.5 136.5 204.7
 98 59.4 50.6 76.0

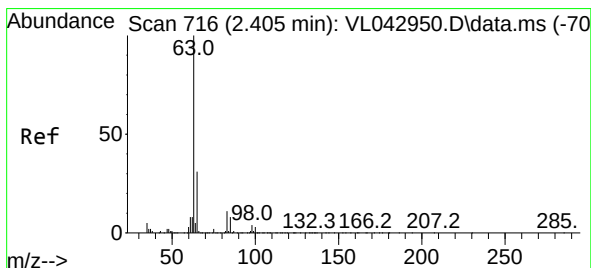
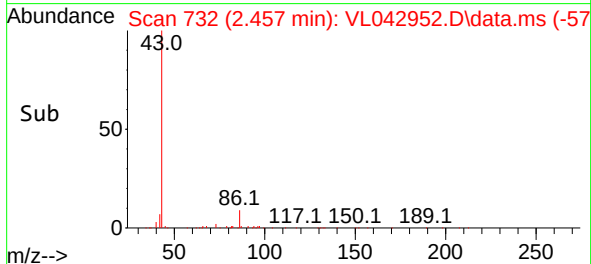
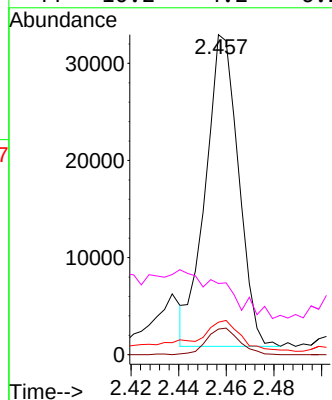
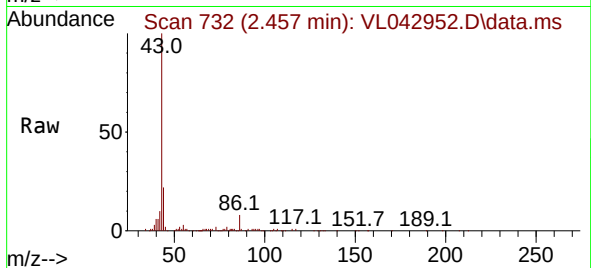




#23
 Vinyl Acetate
 Concen: 1.020 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

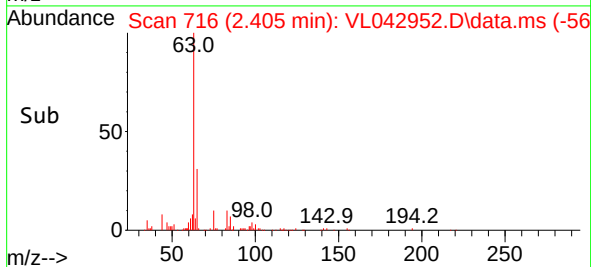
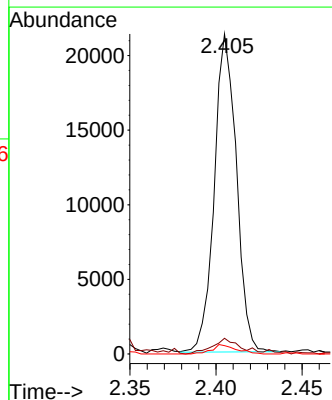
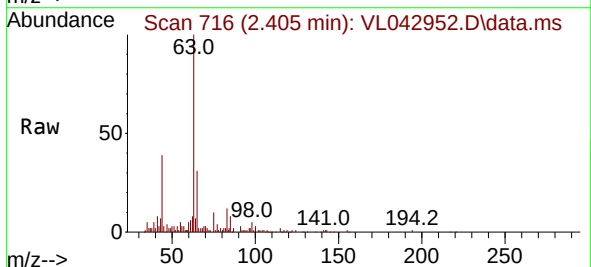
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

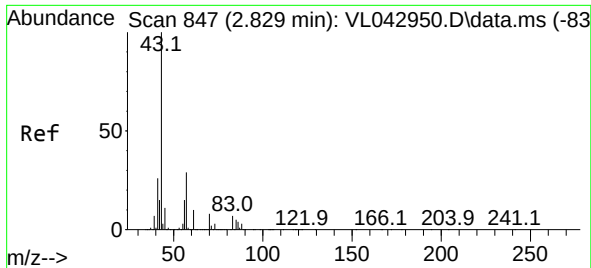
Tgt Ion:	43	Resp:	30884
Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.2	9.2
42	9.0	7.4	11.0
44	10.2	4.2	6.2



#24
 1,1-Dichloroethane
 Concen: 1.082 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

Tgt Ion:	63	Resp:	19077
Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.2	6.6
100	2.6	1.4	4.0

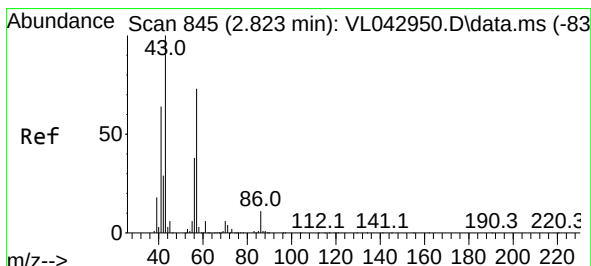
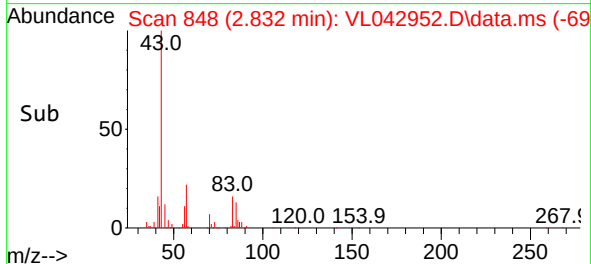
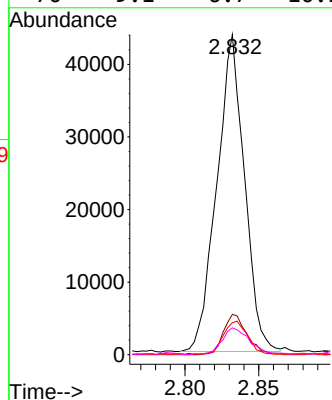
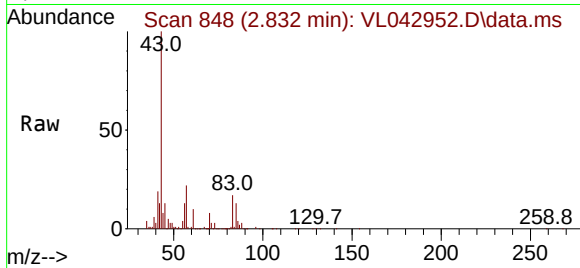




#25
Ethyl Acetate
Concen: 1.061 ppbv
RT: 2.832 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

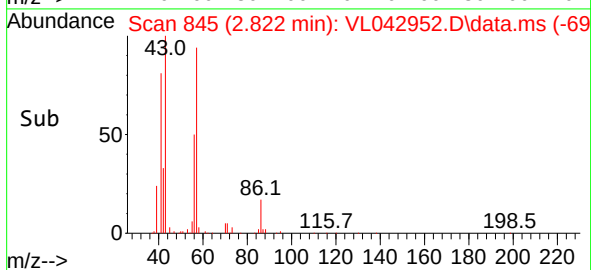
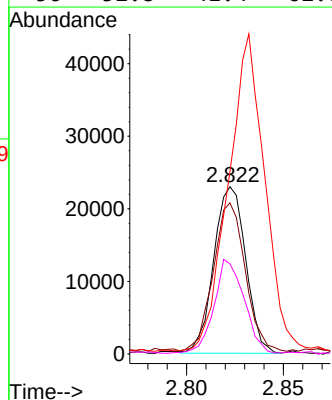
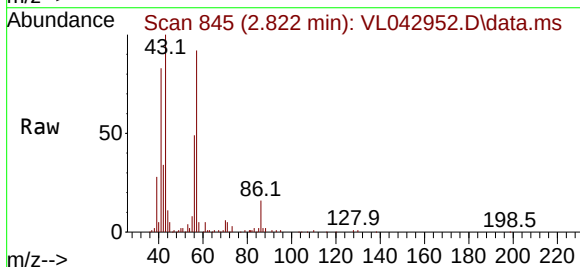
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

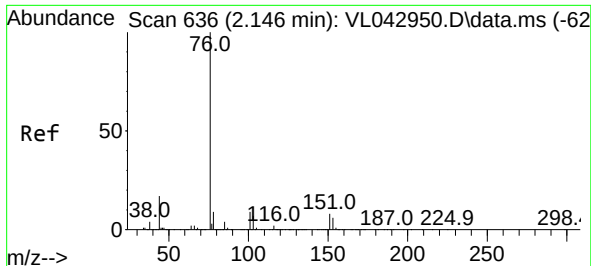
Tgt Ion: 43	Resp: 56877
Ion Ratio	Lower Upper
43 100	
45 11.4	7.7 11.5
61 9.3	7.1 10.7
70 9.1	6.7 10.1



#26
Hexane
Concen: 1.076 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 57	Resp: 26276
Ion Ratio	Lower Upper
57 100	
41 95.7	71.7 107.5
43 221.0	180.8 271.2
56 52.8	41.4 62.0

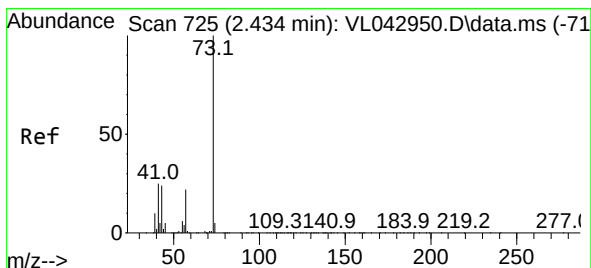
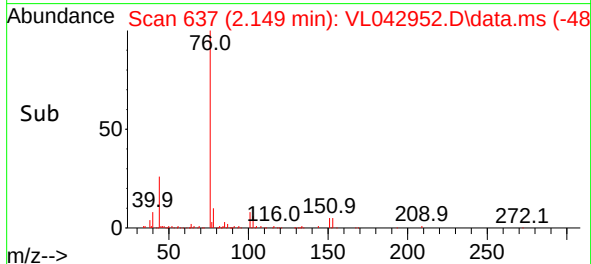
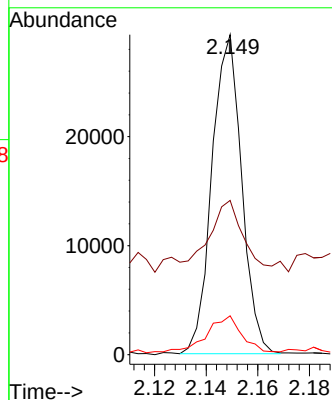
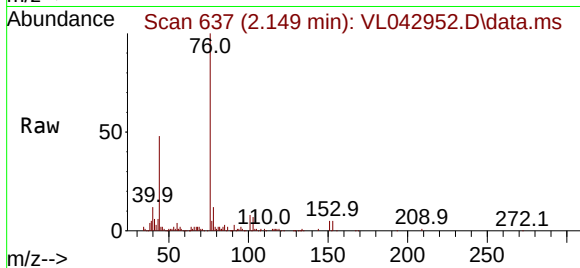




#27
Carbon Disulfide
Concen: 1.067 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

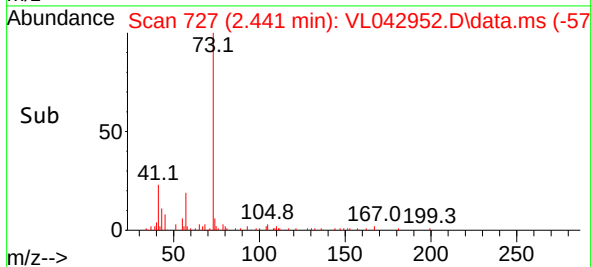
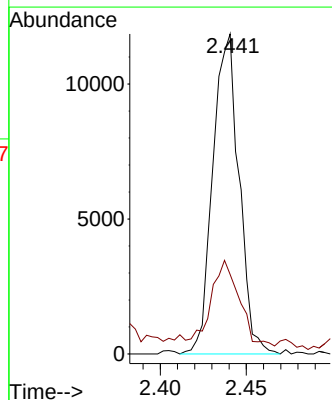
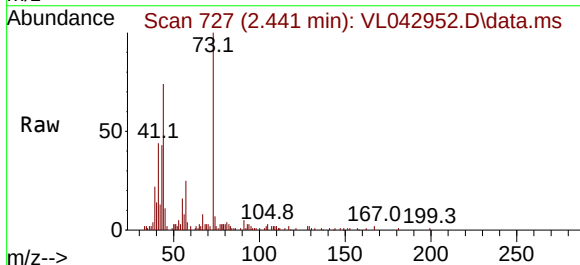
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

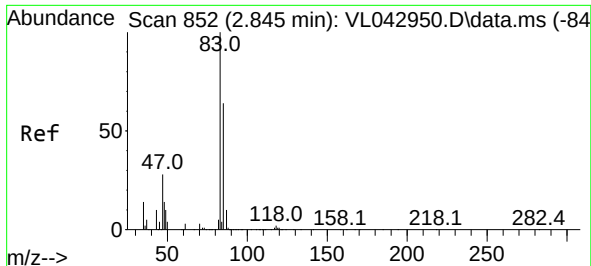
Tgt Ion: 76 Resp: 23373
Ion Ratio Lower Upper
76 100
44 66.3 15.6 23.4#
78 14.2 8.9 13.3#



#28
Methyl tert-Butyl Ether
Concen: 0.991 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.006 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 73 Resp: 12580
Ion Ratio Lower Upper
73 100
57 33.0 20.6 31.0#





#29

Chloroform

Concen: 1.041 ppbv

RT: 2.842 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

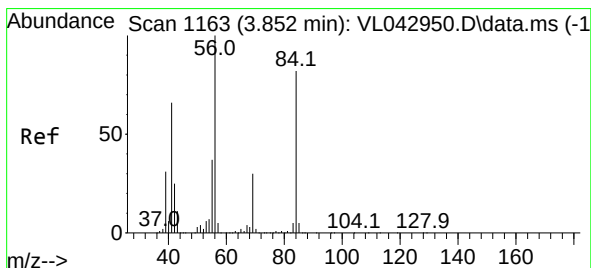
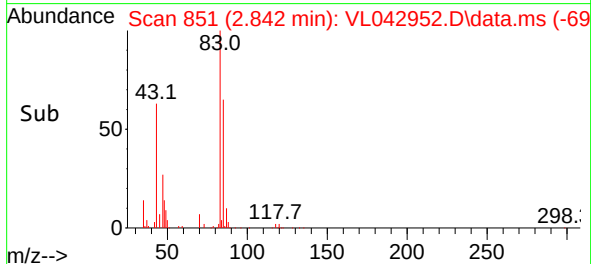
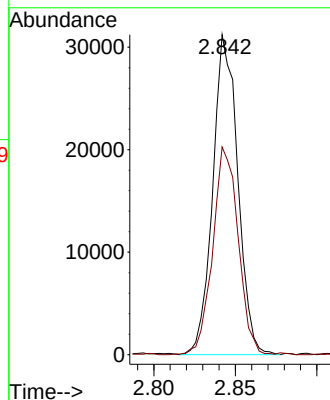
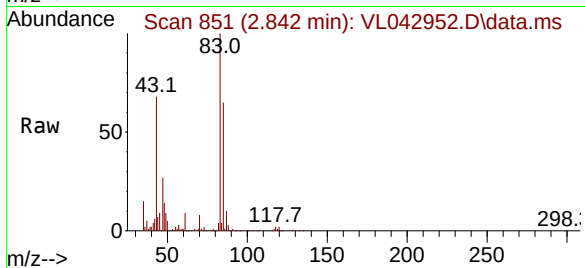
VSTDIC001

Tgt Ion: 83 Resp: 33240

Ion Ratio Lower Upper

83 100

85 64.7 51.2 76.8



#30

Cyclohexane

Concen: 1.063 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

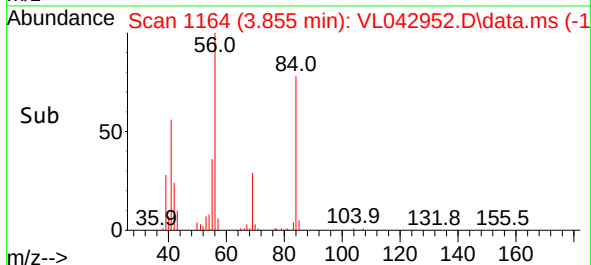
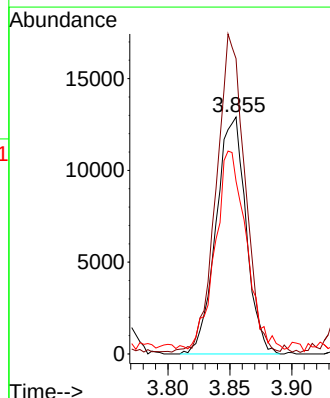
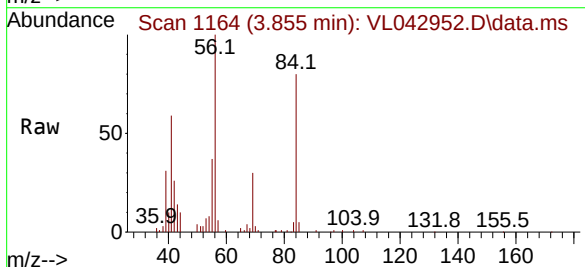
Tgt Ion: 84 Resp: 21707

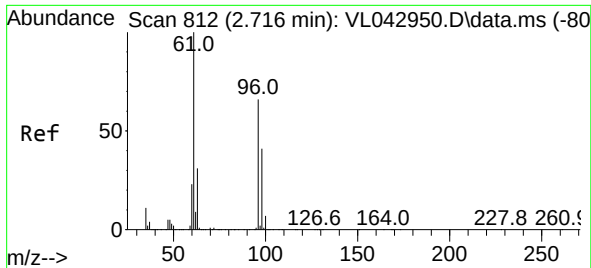
Ion Ratio Lower Upper

84 100

56 127.5 102.2 153.4

41 86.0 65.6 98.4

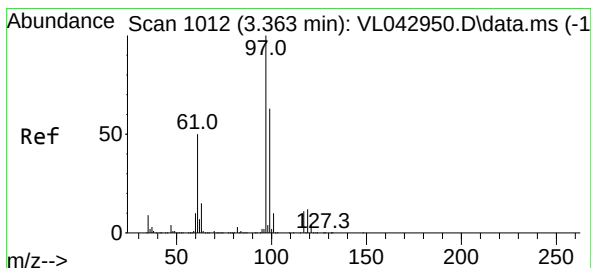
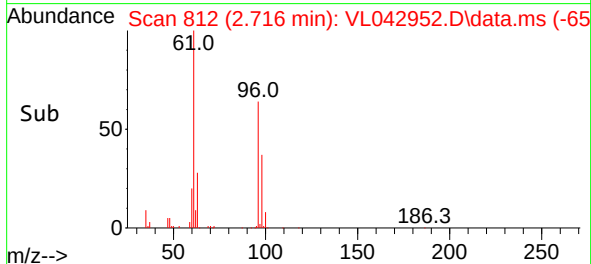
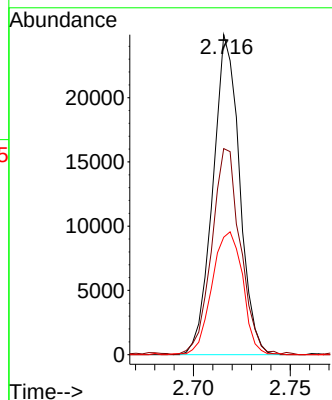
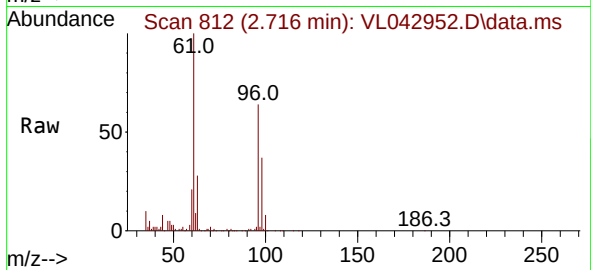




#31
 cis-1,2-Dichloroethene
 Concen: 1.041 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

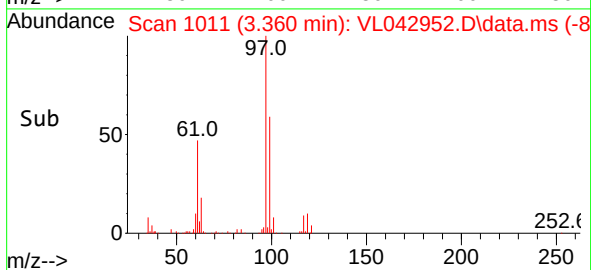
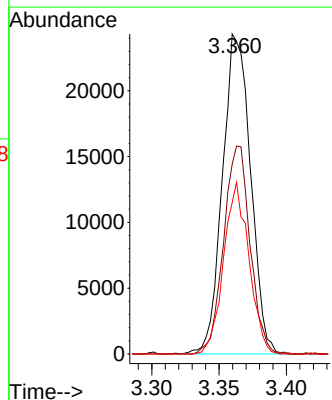
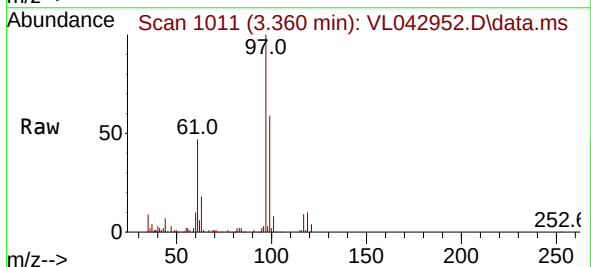
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

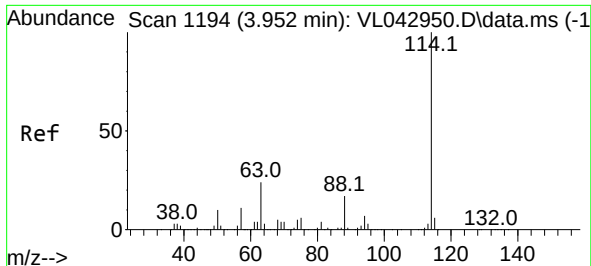
Tgt Ion: 61 Resp: 23828
 Ion Ratio Lower Upper
 61 100
 96 64.2 53.0 79.6
 98 36.4 32.9 49.3



#32
 1,1,1-Trichloroethane
 Concen: 1.018 ppbv
 RT: 3.360 min Scan# 1011
 Delta R.T. -0.003 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

Tgt Ion: 97 Resp: 35233
 Ion Ratio Lower Upper
 97 100
 99 61.1 51.1 76.7
 61 48.3 39.8 59.6

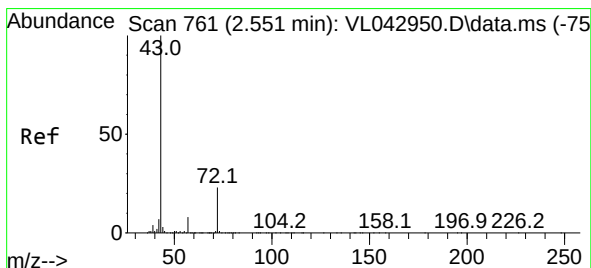
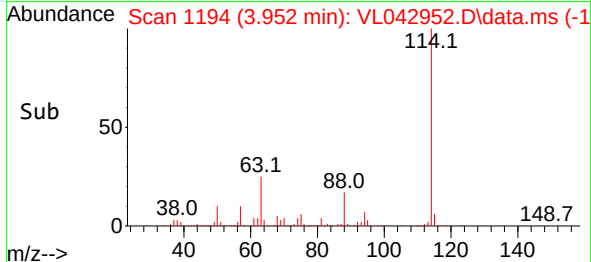
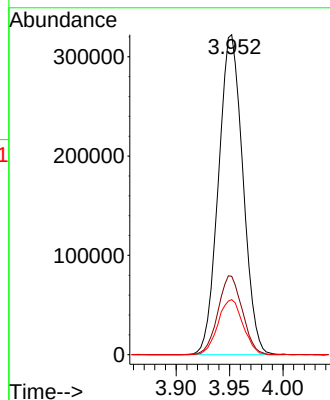
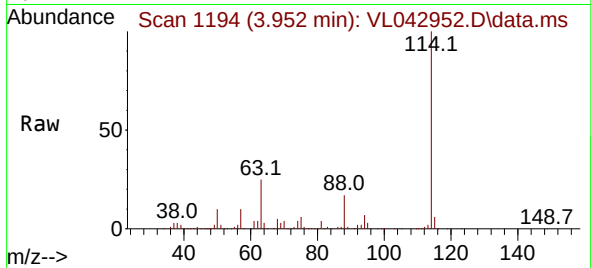




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

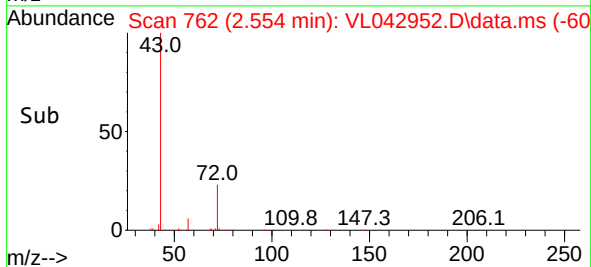
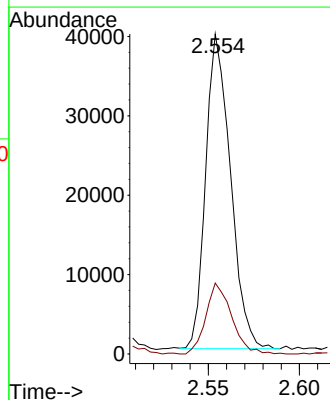
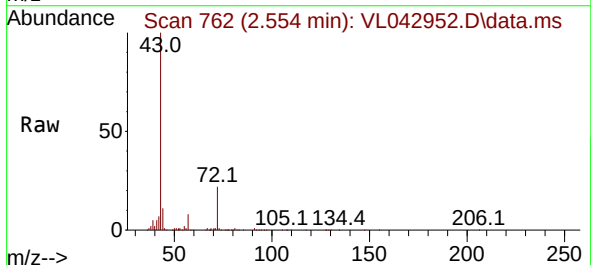
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

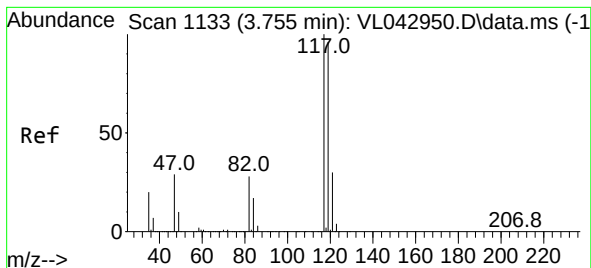
Tgt Ion:114 Resp: 511767
Ion Ratio Lower Upper
114 100
63 24.6 19.4 29.2
88 17.6 14.2 21.2



#34
2-Butanone
Concen: 1.044 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 43 Resp: 37431
Ion Ratio Lower Upper
43 100
72 23.4 17.7 26.5





#35

Carbon Tetrachloride

Concen: 1.033 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. 0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

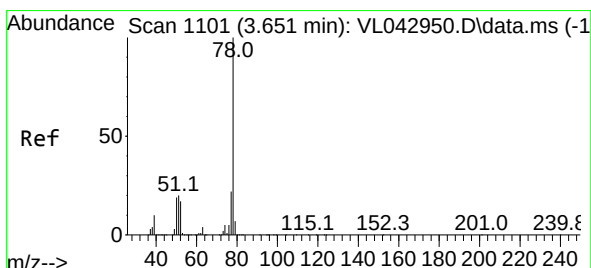
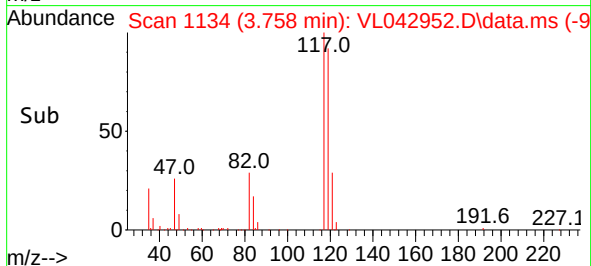
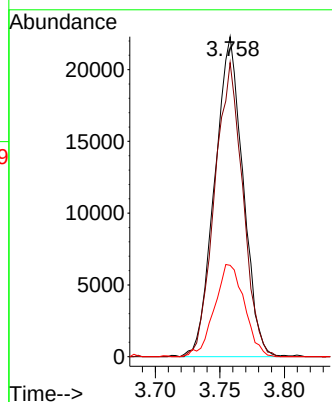
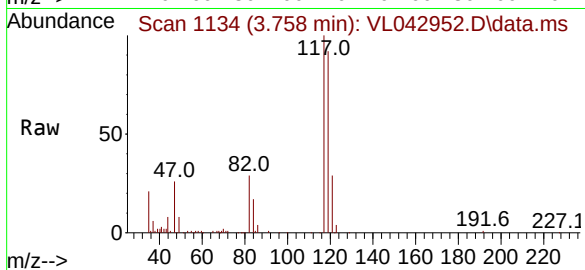
Tgt Ion:117 Resp: 34016

Ion Ratio Lower Upper

117 100

119 91.9 76.9 115.3

121 28.5 23.7 35.5



#36

Benzene

Concen: 1.033 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

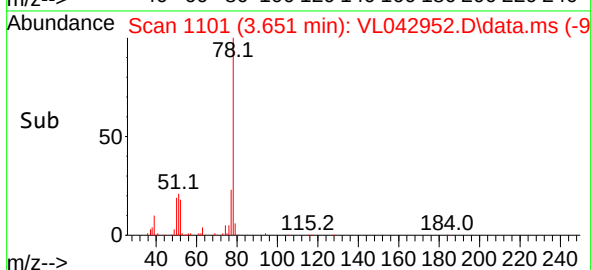
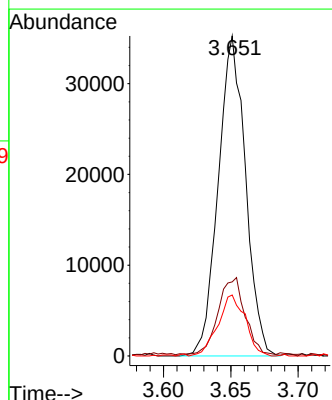
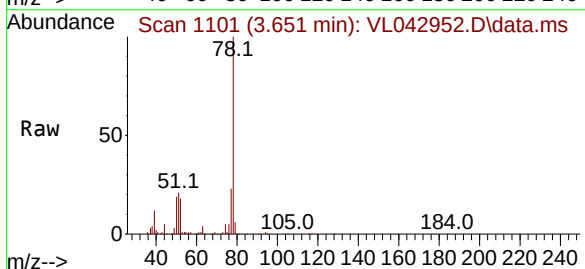
Tgt Ion: 78 Resp: 49652

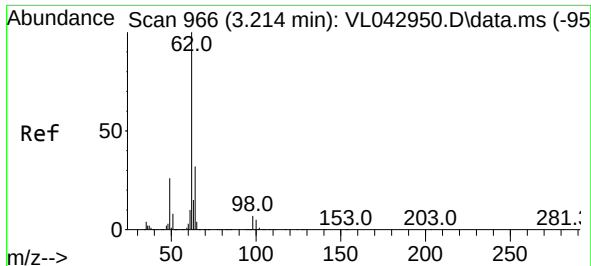
Ion Ratio Lower Upper

78 100

77 22.4 17.8 26.6

50 18.8 15.0 22.4

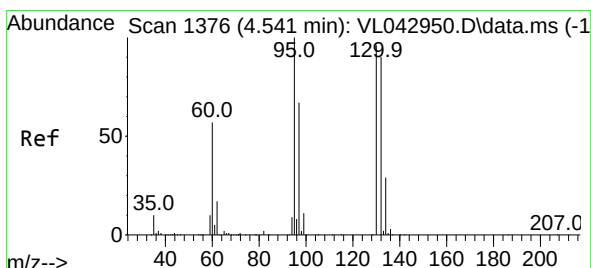
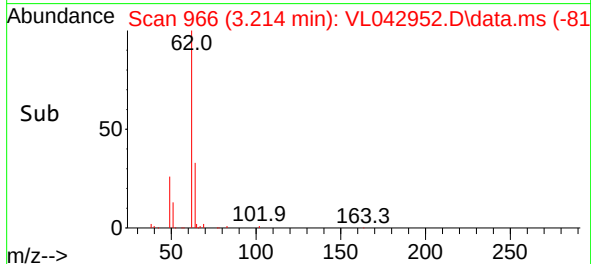
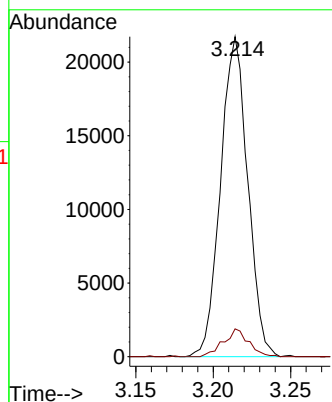
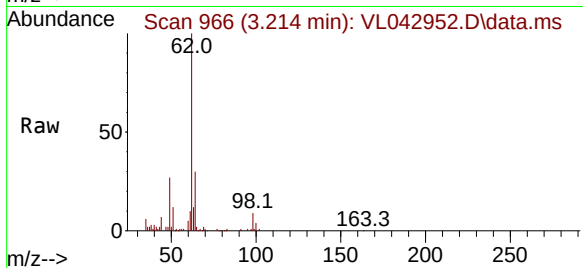




#37
1,2-Dichloroethane
Concen: 1.048 ppbv
RT: 3.214 min Scan# 90
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

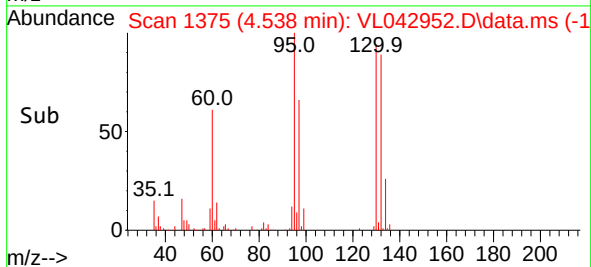
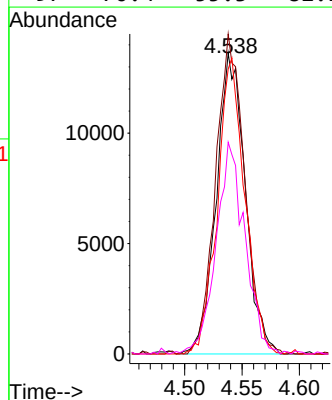
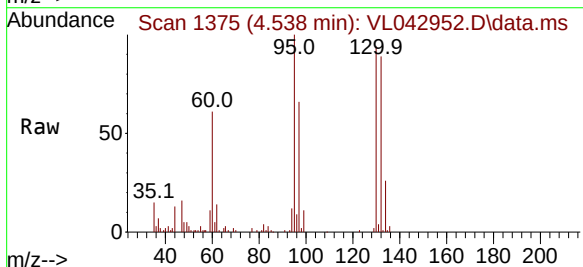
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

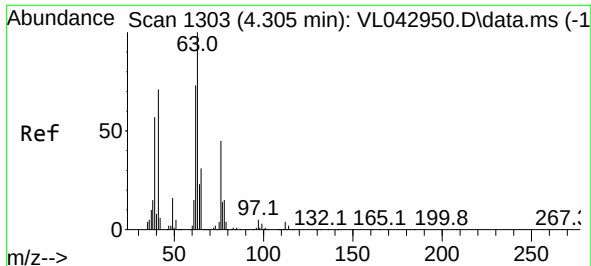
Tgt Ion: 62 Resp: 26482
Ion Ratio Lower Upper
62 100
98 8.0 5.9 8.9



#38
Trichloroethene
Concen: 1.001 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion:130 Resp: 23906
Ion Ratio Lower Upper
130 100
95 106.0 83.0 124.4
132 94.7 74.6 112.0
97 70.4 55.3 82.9





#39

1,2-Dichloropropane

Concen: 0.585 ppbv

RT: 4.302 min Scan# 1302

Delta R.T. -0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

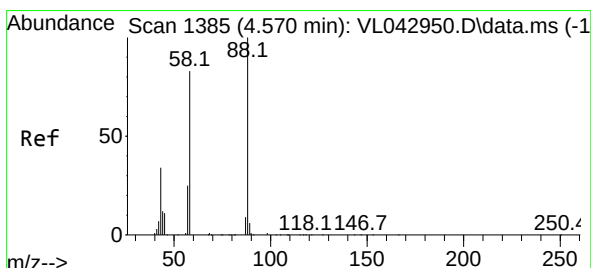
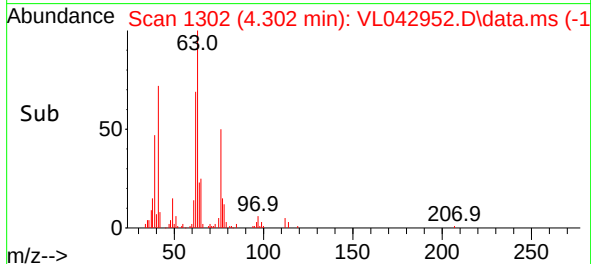
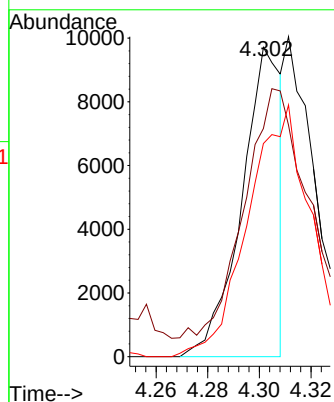
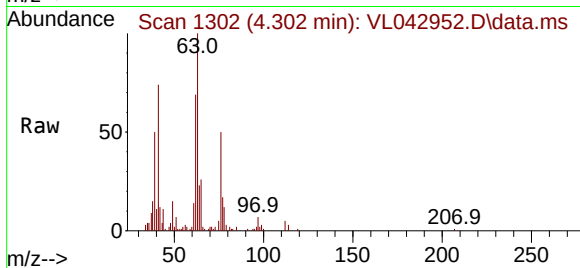
Tgt Ion: 63 Resp: 10275

Ion Ratio Lower Upper

63 100

41 67.7 57.5 86.3

62 67.8 58.5 87.7



#40

1,4-Dioxane

Concen: 0.439 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.013 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Tgt Ion: 88 Resp: 3579

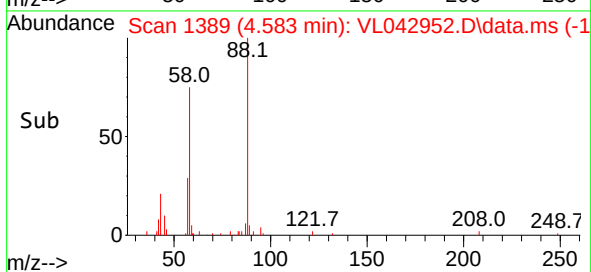
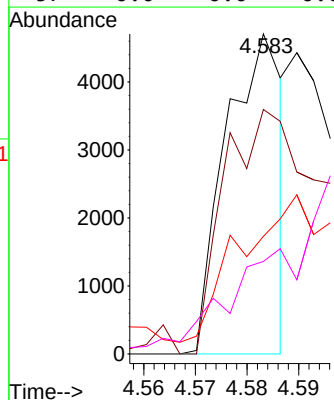
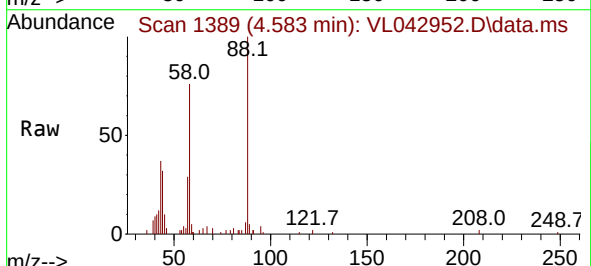
Ion Ratio Lower Upper

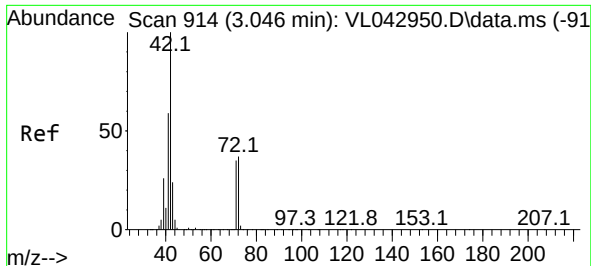
88 100

58 188.0 59.7 89.5#

43 23.8 28.9 43.3#

57 0.0 0.0 0.0

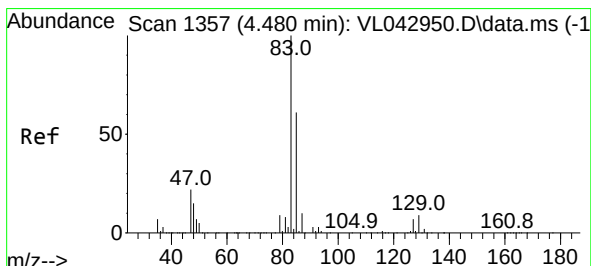
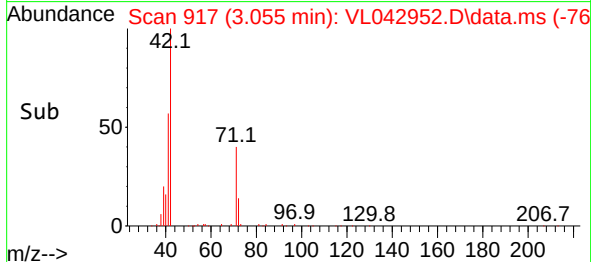
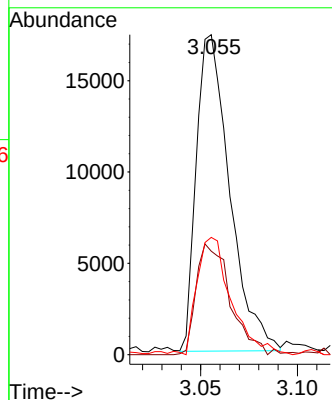
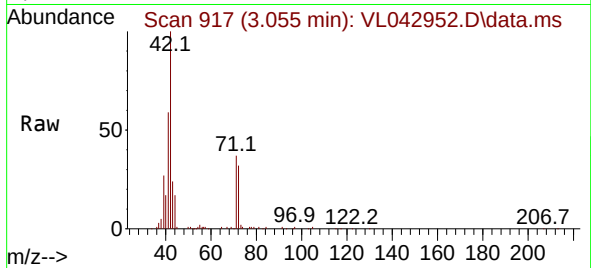




#41
Tetrahydrofuran
Concen: 1.011 ppbv
RT: 3.055 min Scan# 914
Delta R.T. 0.009 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

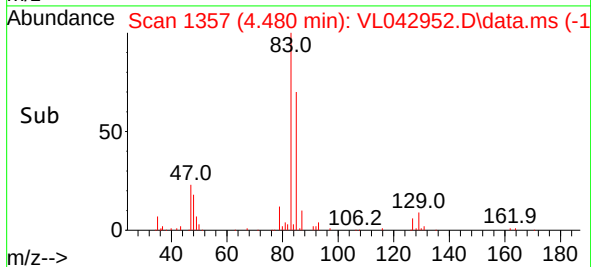
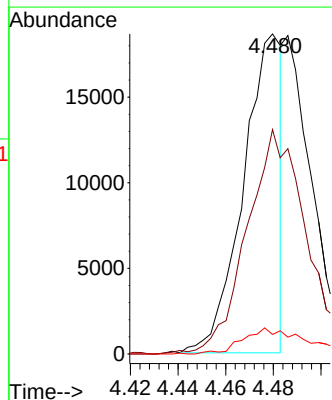
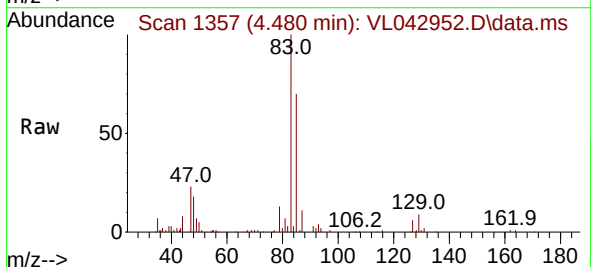
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

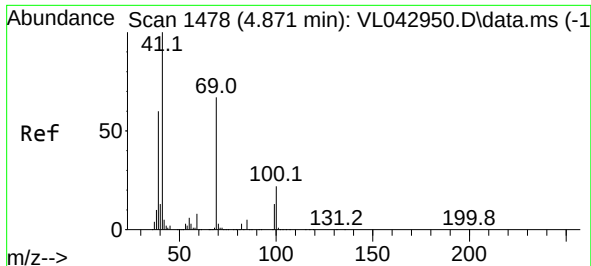
Tgt Ion: 42 Resp: 20845
Ion Ratio Lower Upper
42 100
72 37.0 30.0 45.0
71 37.4 28.8 43.2



#42
Bromodichloromethane
Concen: 0.592 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 83 Resp: 20848
Ion Ratio Lower Upper
83 100
85 69.3 49.0 73.6
127 5.9 5.3 7.9

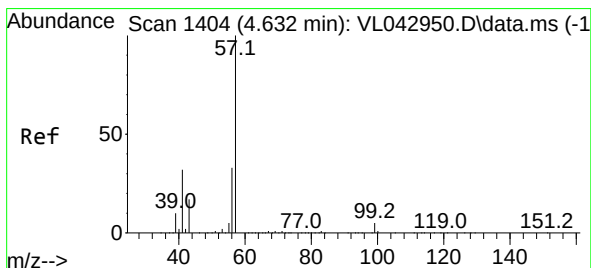
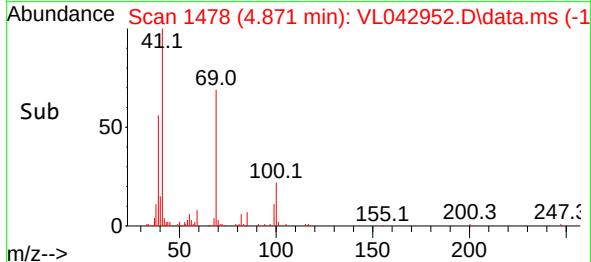
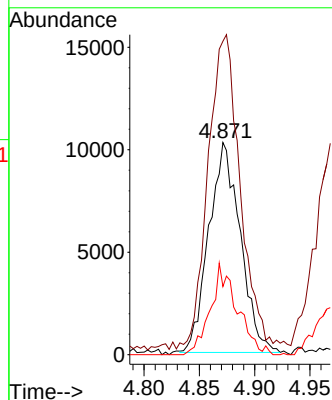
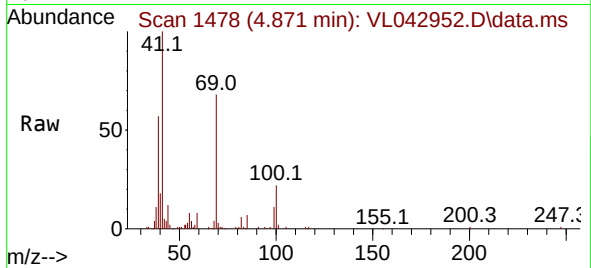




#43
Methyl Methacrylate
Concen: 1.040 ppbv
RT: 4.871 min Scan# 1478
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

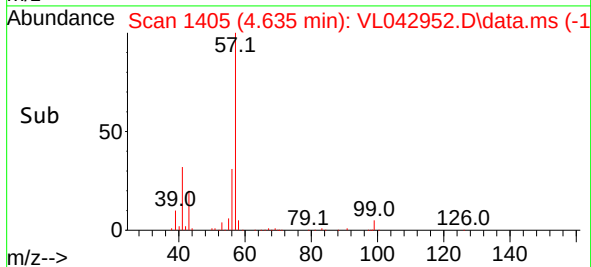
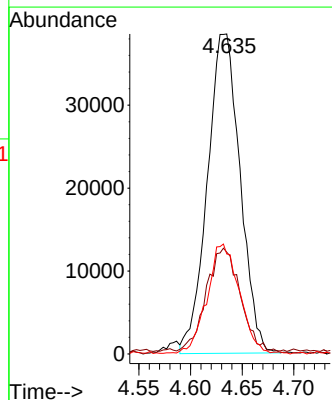
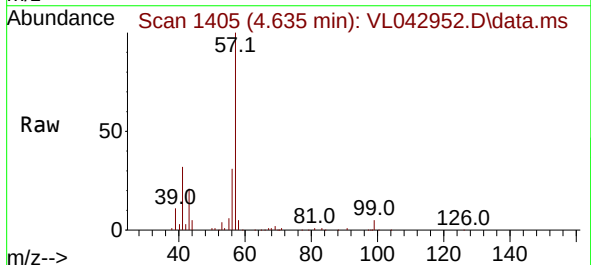
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

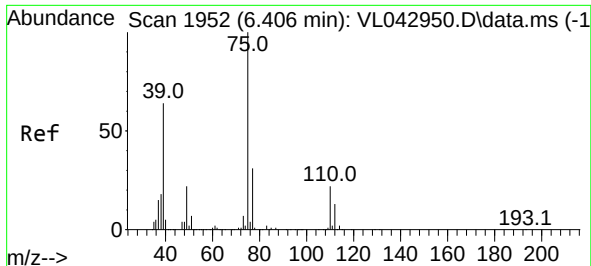
Tgt Ion: 69 Resp: 20289
Ion Ratio Lower Upper
69 100
41 152.1 124.5 186.7
100 36.8 29.0 43.6



#44
2,2,4-Trimethylpentane
Concen: 1.023 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 57 Resp: 84970
Ion Ratio Lower Upper
57 100
41 34.1 25.5 38.3
56 34.4 25.8 38.8

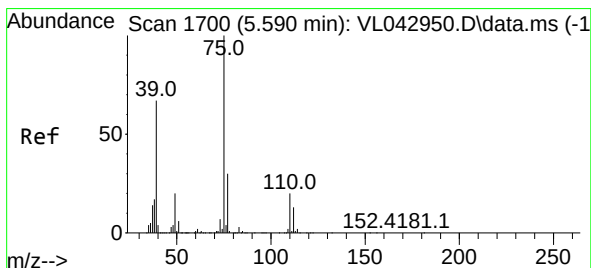
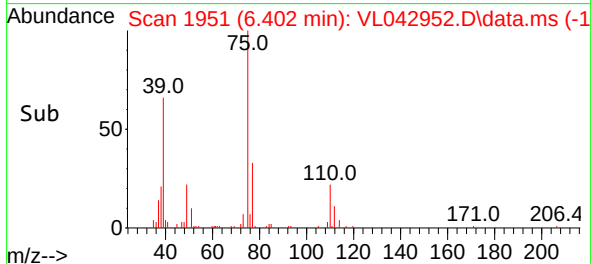
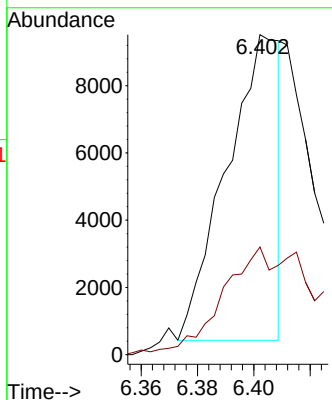
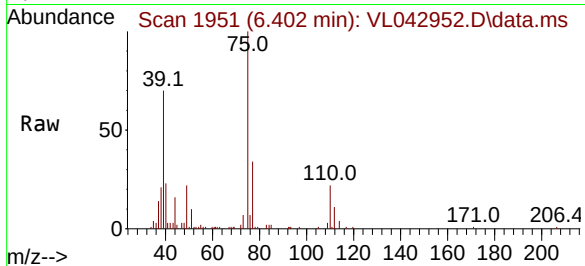




#45
 t-1,3-Dichloropropene
 Concen: 0.565 ppbv
 RT: 6.402 min Scan# 1951
 Delta R.T. -0.003 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

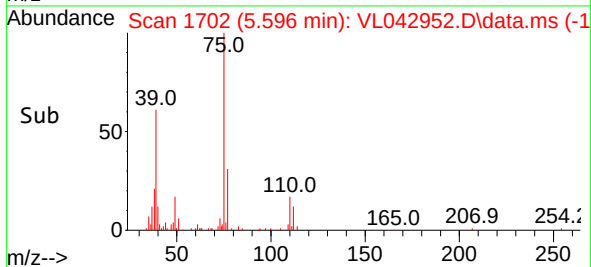
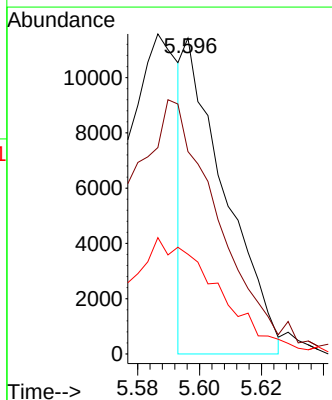
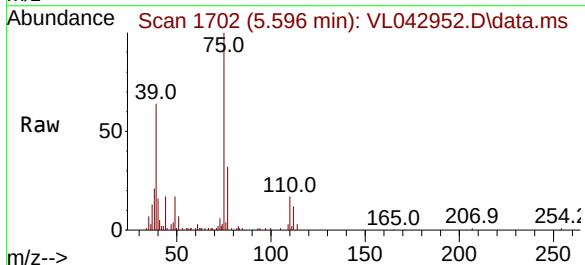
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

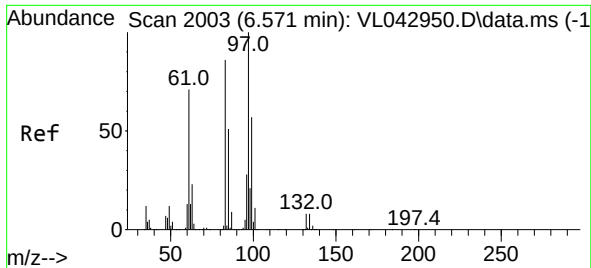
Tgt Ion: 75 Resp: 11857
 Ion Ratio Lower Upper
 75 100
 77 33.7 25.0 37.4



#46
 cis-1,3-Dichloropropene
 Concen: 0.395 ppbv
 RT: 5.596 min Scan# 1702
 Delta R.T. 0.006 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

Tgt Ion: 75 Resp: 10544
 Ion Ratio Lower Upper
 75 100
 39 61.2 53.8 80.6
 77 28.4 23.6 35.4

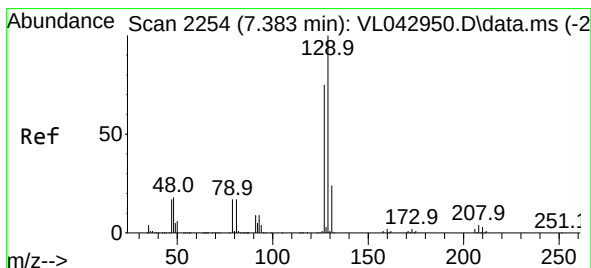
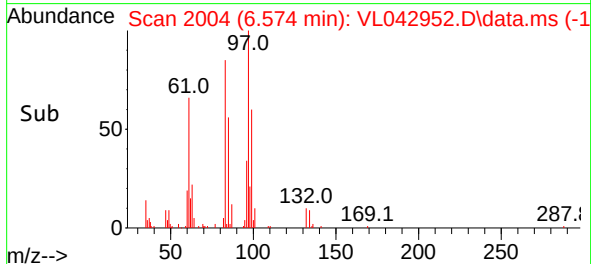
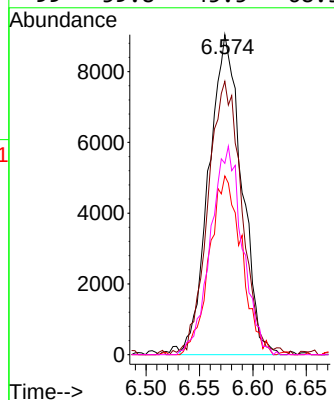
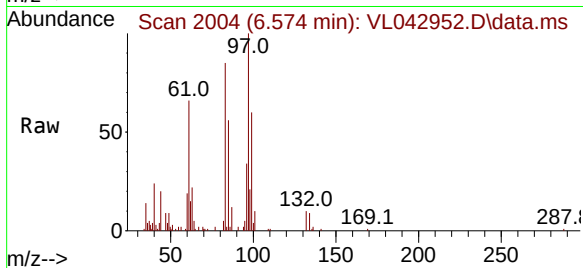




#47
1,1,2-Trichloroethane
Concen: 1.041 ppbv
RT: 6.574 min Scan# 2003
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

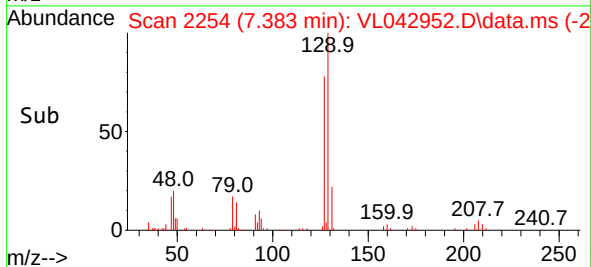
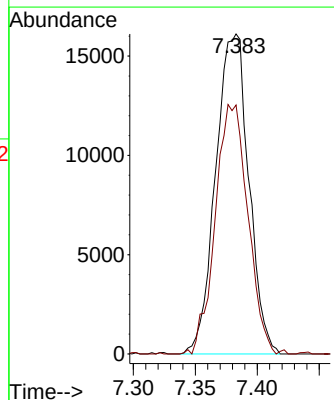
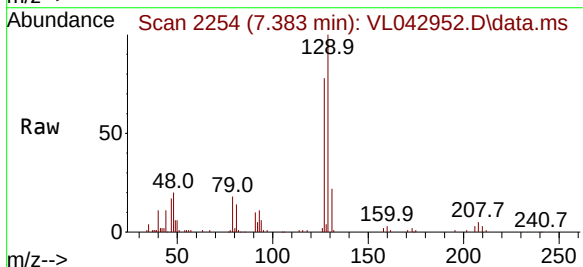
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

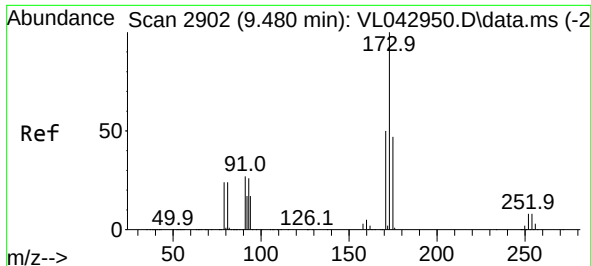
Tgt Ion:	97	Resp:	19311
Ion	Ratio	Lower	Upper
97	100		
83	83.9	68.7	103.1
85	55.9	40.6	60.8
99	59.8	45.5	68.3



#48
Dibromochloromethane
Concen: 1.012 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion:	129	Resp:	30015
Ion	Ratio	Lower	Upper
129	100		
127	76.8	39.1	117.2





#49

Bromoform

Concen: 1.005 ppbv

RT: 9.477 min Scan# 2901

Delta R.T. -0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

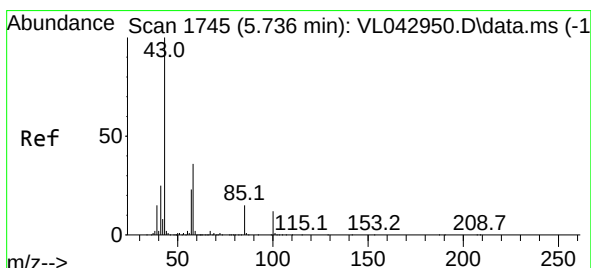
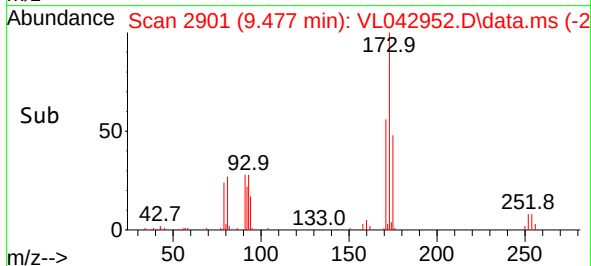
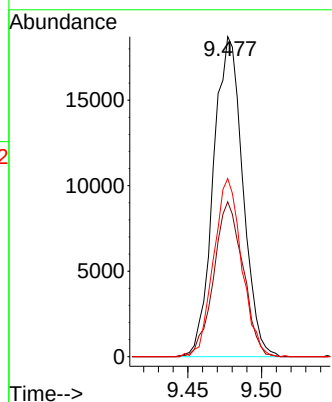
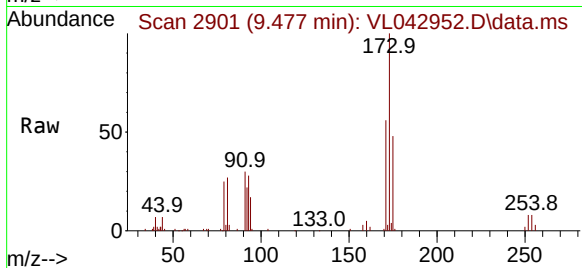
Tgt Ion:173 Resp: 25929

Ion Ratio Lower Upper

173 100

175 48.2 37.9 56.9

171 53.2 41.1 61.7



#50

4-Methyl-2-Pentanone

Concen: 1.007 ppbv

RT: 5.748 min Scan# 1749

Delta R.T. 0.013 min

Lab File: VL042952.D

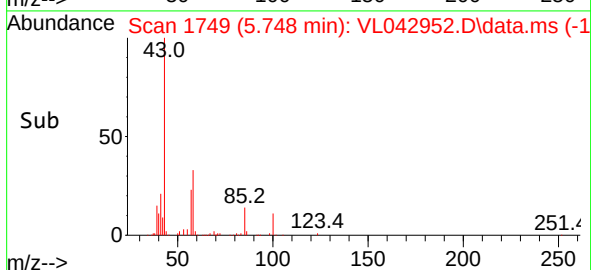
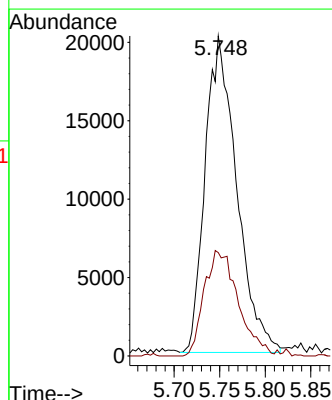
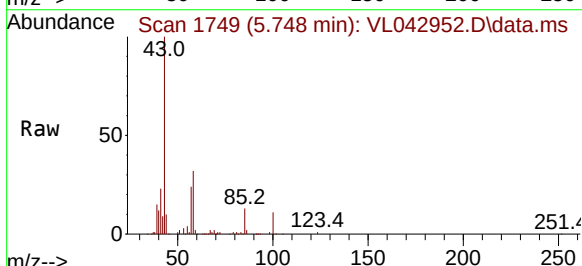
Acq: 22 Sep 2025 10:48

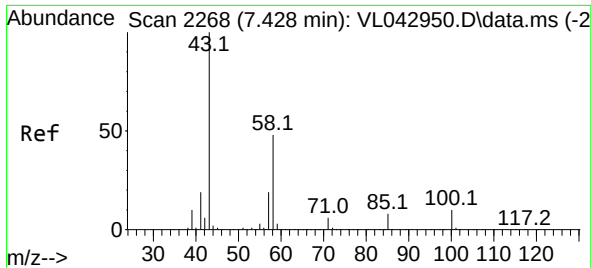
Tgt Ion: 43 Resp: 48546

Ion Ratio Lower Upper

43 100

58 36.5 28.4 42.6

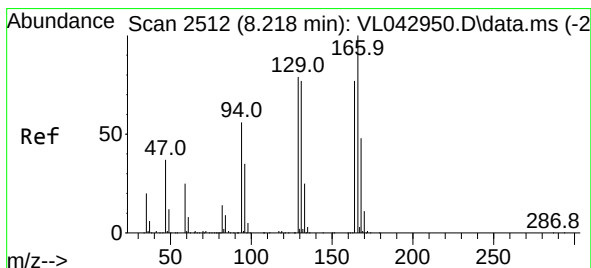
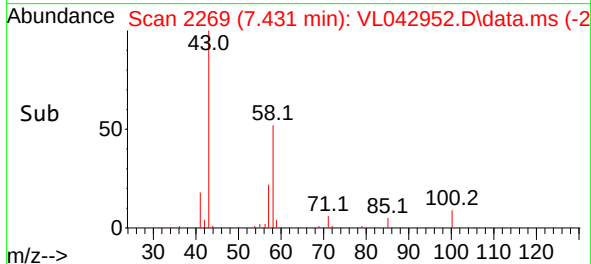
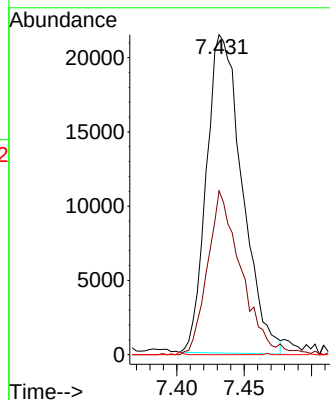
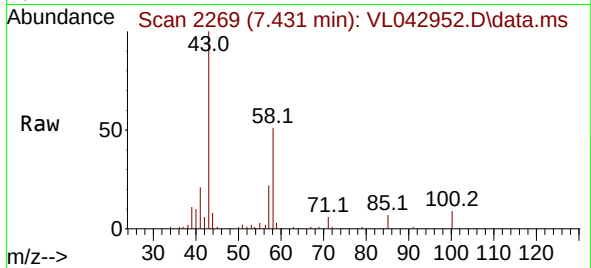




#51
2-Hexanone
Concen: 1.034 ppbv
RT: 7.431 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

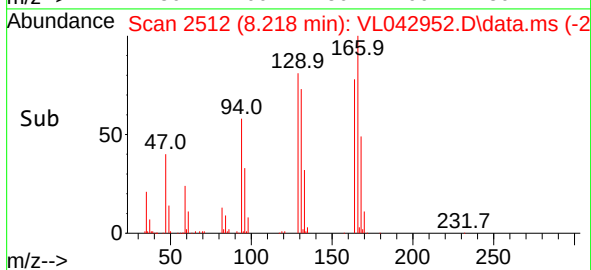
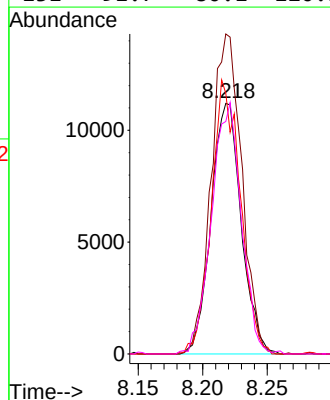
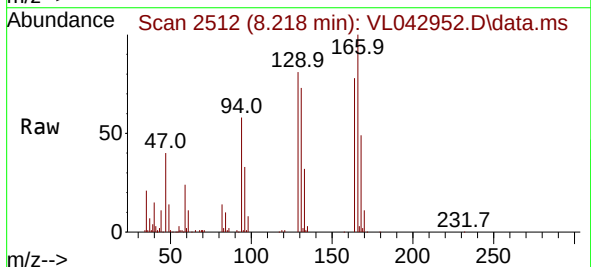
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

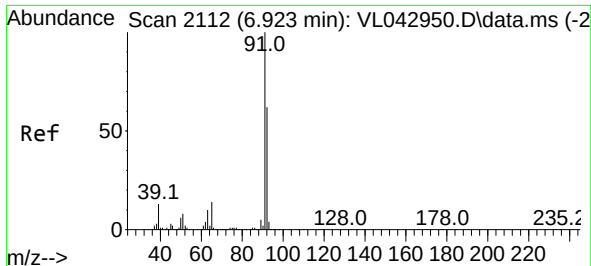
Tgt Ion: 43 Resp: 39627
Ion Ratio Lower Upper
43 100
58 48.6 39.7 59.5
98 0.1 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.978 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion:164 Resp: 18188
Ion Ratio Lower Upper
164 100
166 127.7 103.5 155.3
129 104.0 82.2 123.4
131 91.7 80.1 120.1

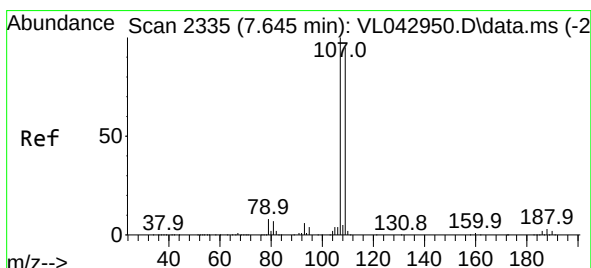
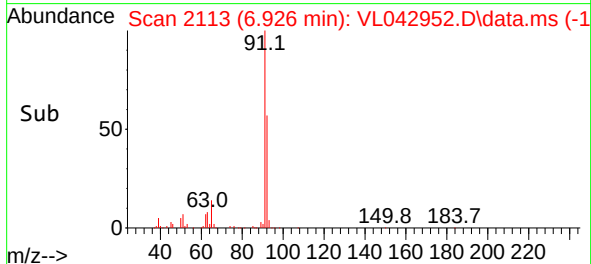
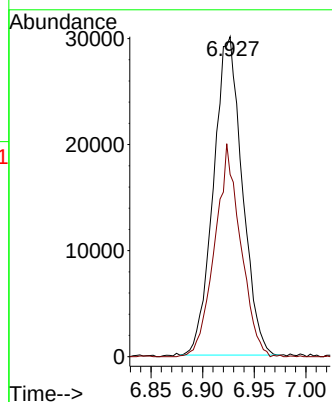
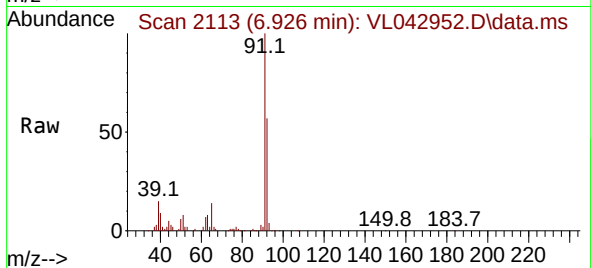




#53
Toluene
Concen: 1.023 ppbv
RT: 6.926 min Scan# 2112
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

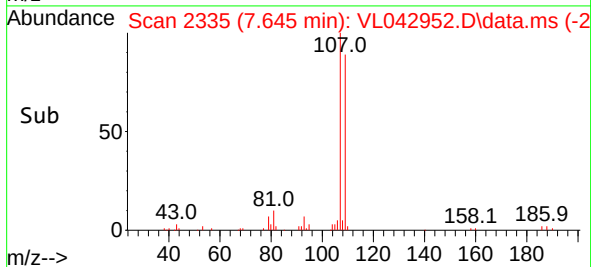
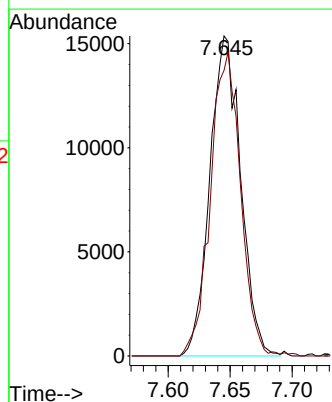
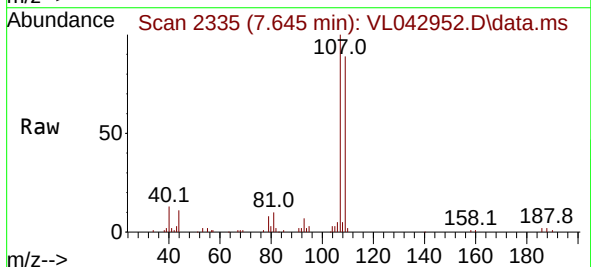
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

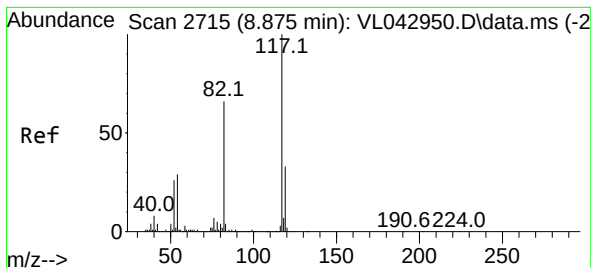
Tgt Ion: 91 Resp: 58200
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.2



#54
1,2-Dibromoethane
Concen: 1.020 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 107 Resp: 26608
Ion Ratio Lower Upper
107 100
109 89.3 75.8 113.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

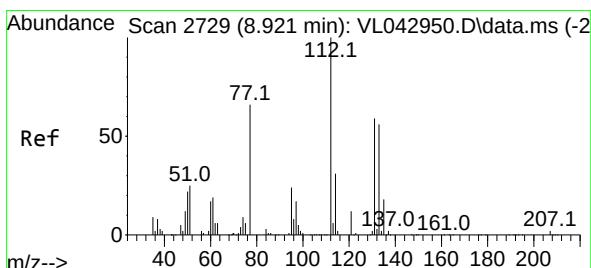
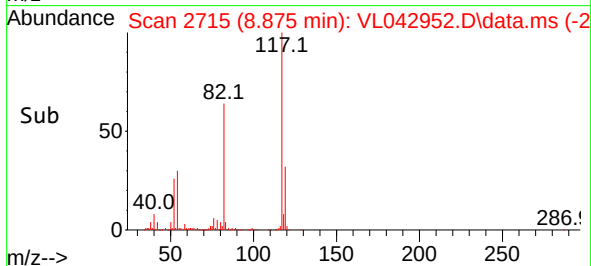
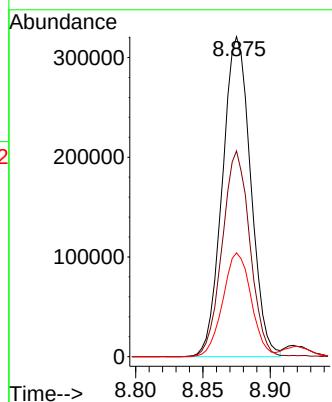
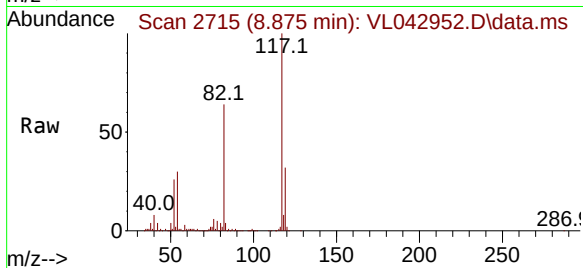
Tgt Ion:117 Resp: 469265

Ion Ratio Lower Upper

117 100

82 63.2 52.8 79.2

119 32.7 26.5 39.7



#56

1,1,1,2-Tetrachloroethane

Concen: 1.015 ppbv

RT: 8.920 min Scan# 2729

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

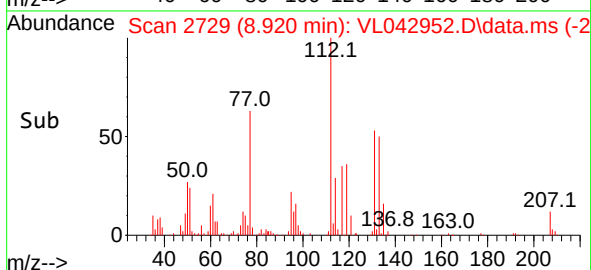
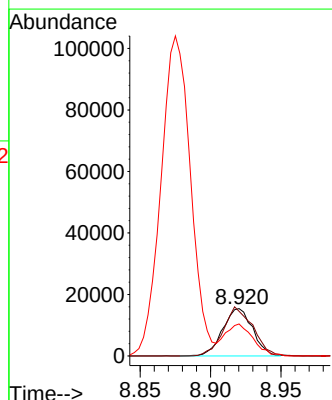
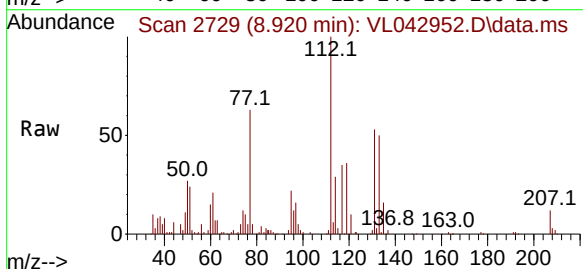
Tgt Ion:131 Resp: 22802

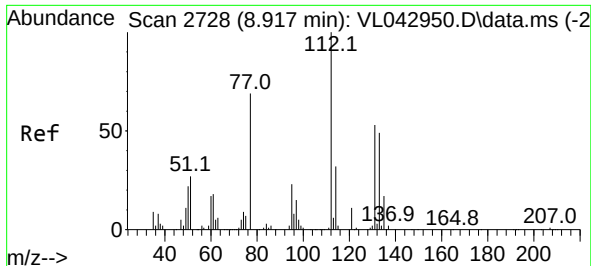
Ion Ratio Lower Upper

131 100

133 102.8 76.6 114.8

119 58.6 49.9 74.9

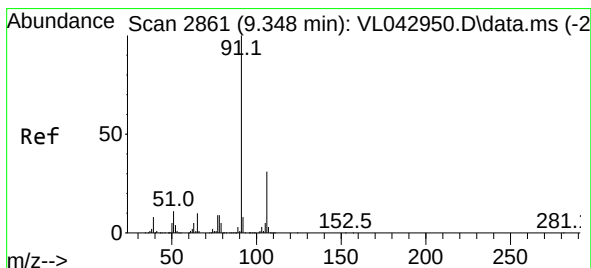
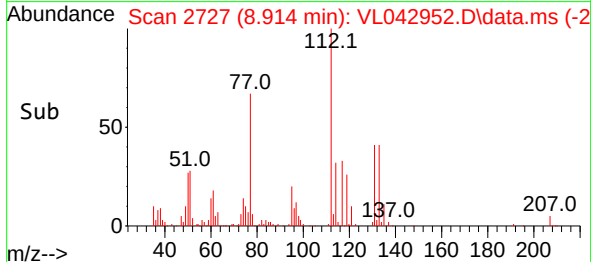
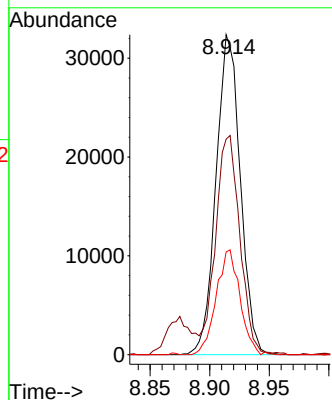
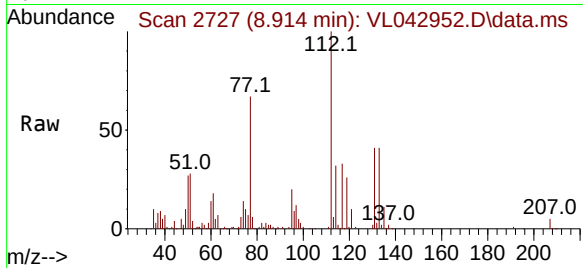




#57
Chlorobenzene
Concen: 1.071 ppbv
RT: 8.914 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

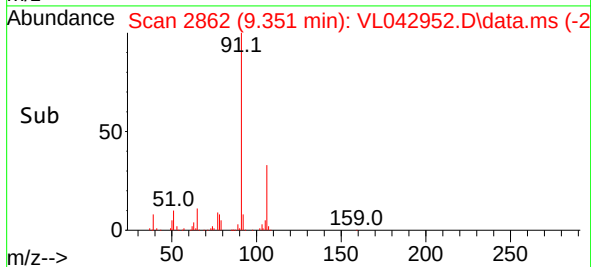
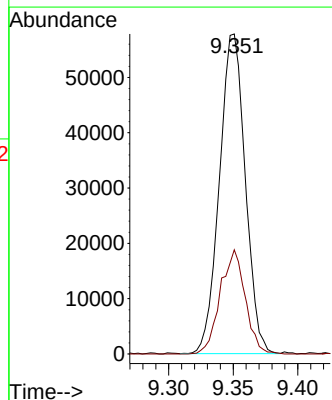
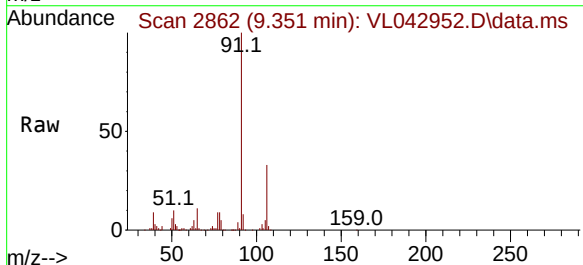
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

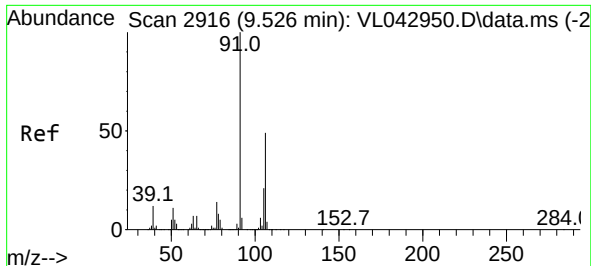
Tgt Ion: 112 Resp: 45873
Ion Ratio Lower Upper
112 100
77 66.9 55.7 83.5
114 32.1 28.6 35.0



#58
Ethyl Benzene
Concen: 1.044 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.003 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 91 Resp: 80473
Ion Ratio Lower Upper
91 100
106 32.6 24.6 37.0





#59

m/p-Xylene

Concen: 1.231 ppbv

RT: 9.529 min Scan# 2916

Delta R.T. 0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

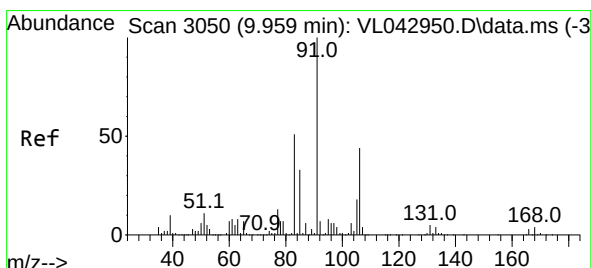
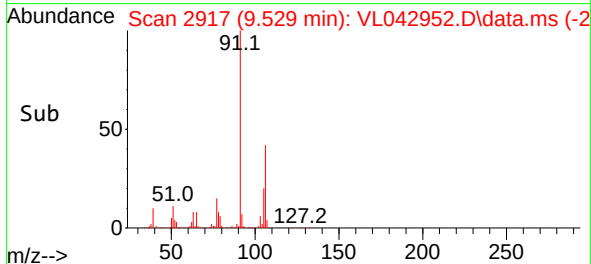
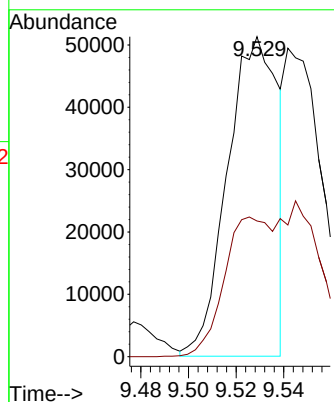
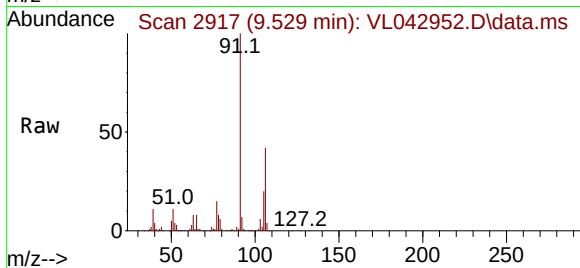
VSTDIC001

Tgt Ion: 91 Resp: 74868

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 1.066 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042952.D

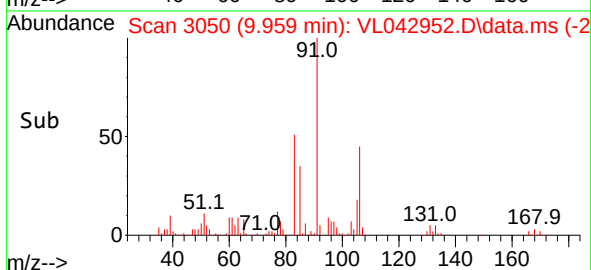
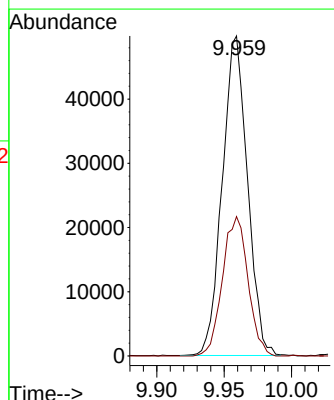
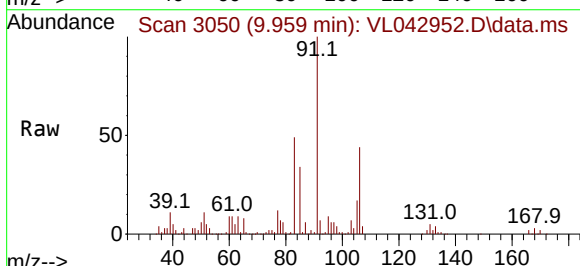
Acq: 22 Sep 2025 10:48

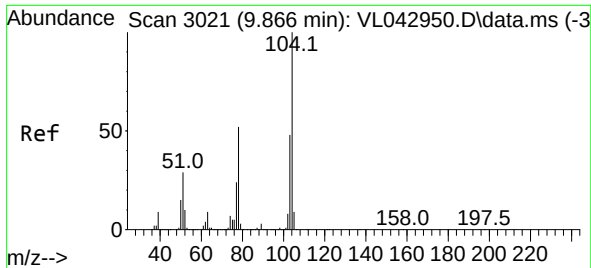
Tgt Ion: 91 Resp: 64703

Ion Ratio Lower Upper

91 100

106 44.2 22.4 67.0





#61

Styrene

Concen: 1.012 ppbv

RT: 9.869 min Scan# 3021

Delta R.T. 0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

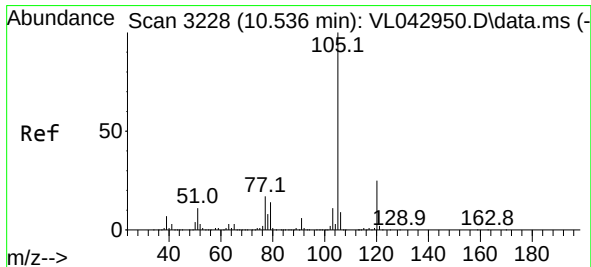
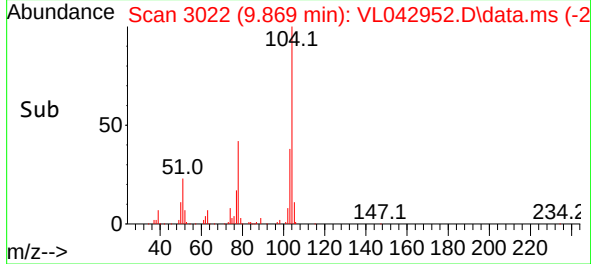
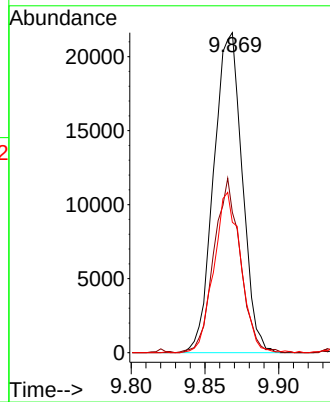
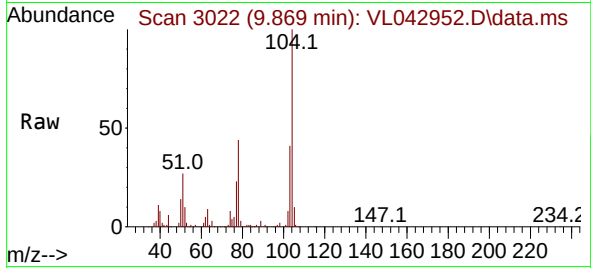
Tgt Ion:104 Resp: 29061

Ion Ratio Lower Upper

104 100

78 50.8 39.9 59.9

103 47.7 36.9 55.3



#62

Isopropylbenzene

Concen: 1.068 ppbv

RT: 10.535 min Scan# 3228

Delta R.T. -0.000 min

Lab File: VL042952.D

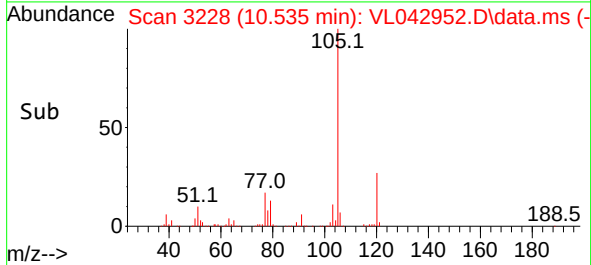
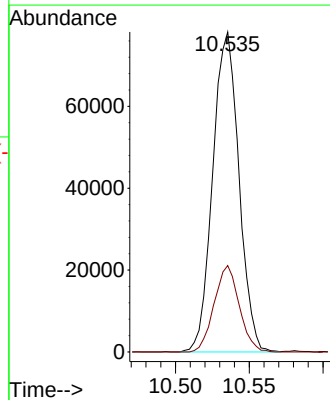
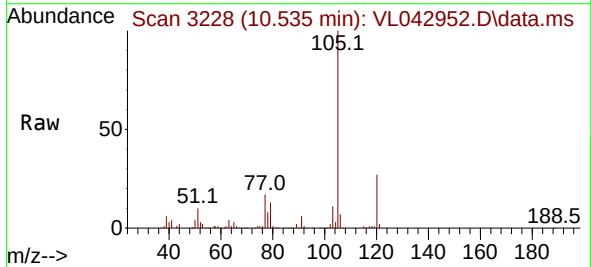
Acq: 22 Sep 2025 10:48

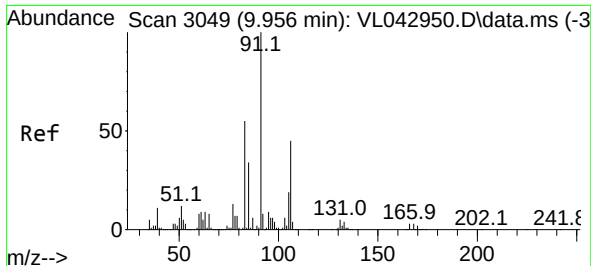
Tgt Ion:105 Resp: 96621

Ion Ratio Lower Upper

105 100

120 25.8 20.6 30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.993 ppbv

RT: 9.959 min Scan# 3049

Delta R.T. 0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

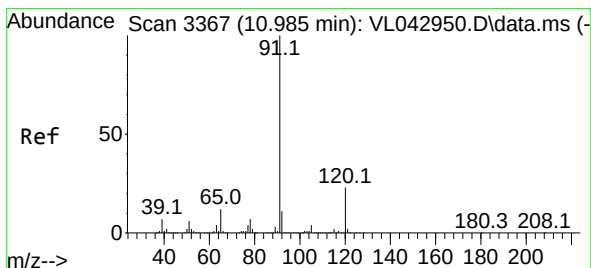
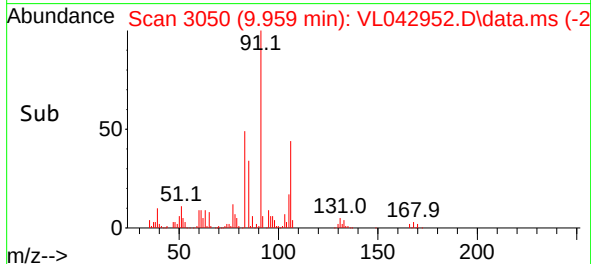
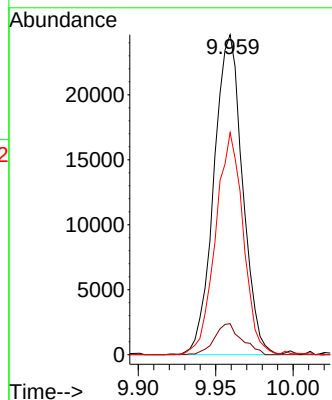
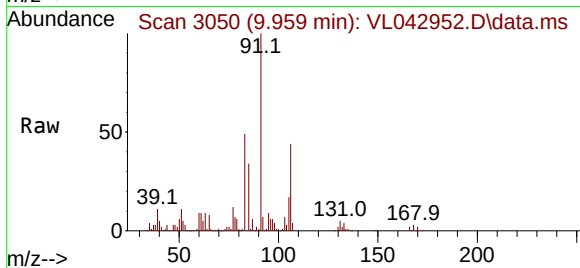
Tgt Ion: 83 Resp: 31695

Ion Ratio Lower Upper

83 100

131 9.2 4.8 14.4

85 67.4 32.2 96.6



#64

n-propylbenzene

Concen: 1.049 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.000 min

Lab File: VL042952.D

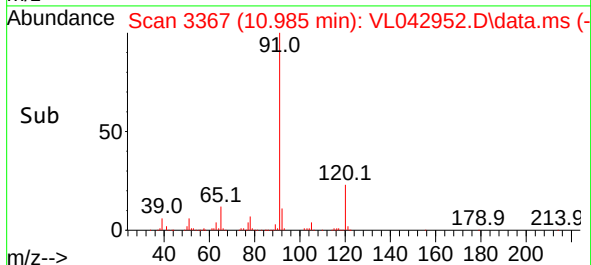
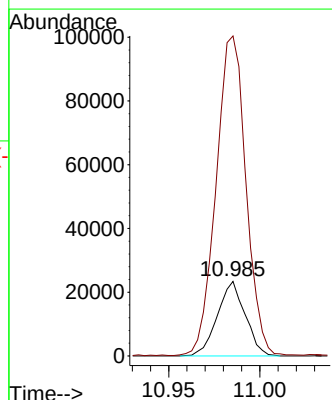
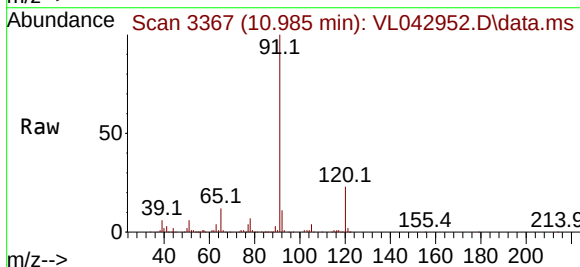
Acq: 22 Sep 2025 10:48

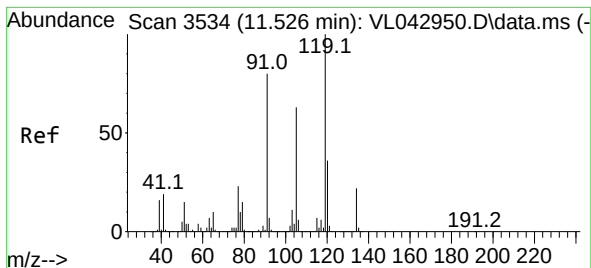
Tgt Ion: 120 Resp: 24820

Ion Ratio Lower Upper

120 100

91 461.0 364.9 547.3





#65

tert-Butylbenzene

Concen: 1.072 ppbv

RT: 11.526 min Scan# 3534

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

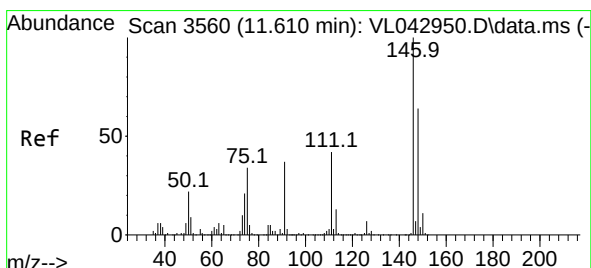
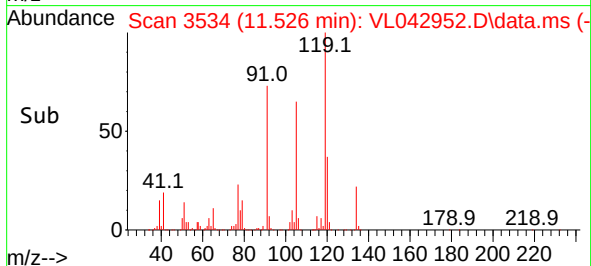
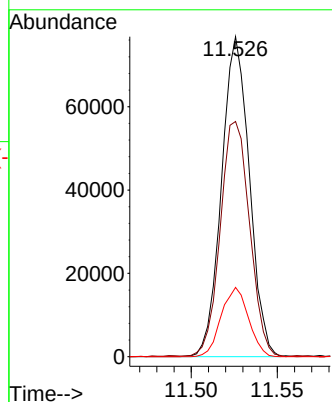
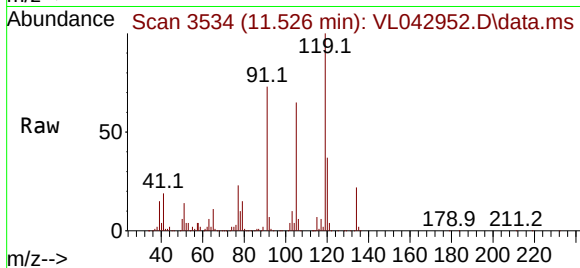
Tgt Ion:119 Resp: 86303

Ion Ratio Lower Upper

119 100

91 78.1 63.1 94.7

134 21.2 17.0 25.6



#66

Benzyl Chloride

Concen: 0.964 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

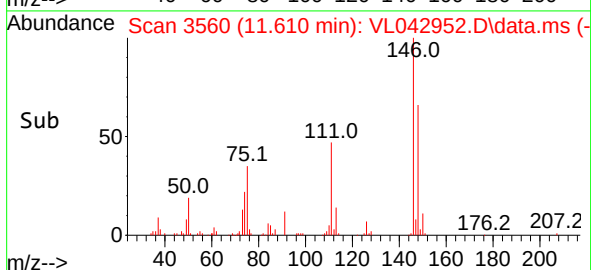
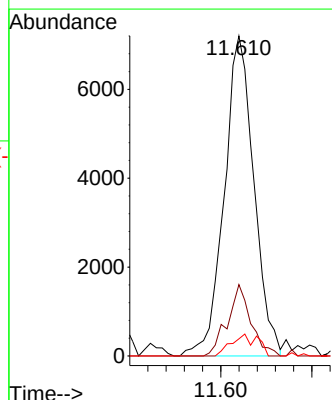
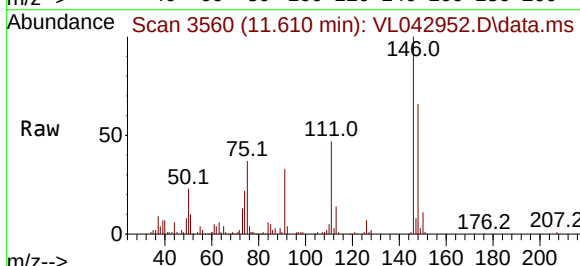
Tgt Ion: 91 Resp: 8140

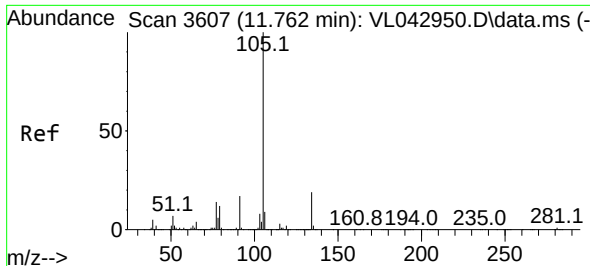
Ion Ratio Lower Upper

91 100

126 17.9 14.6 21.8

128 6.2 5.0 7.4

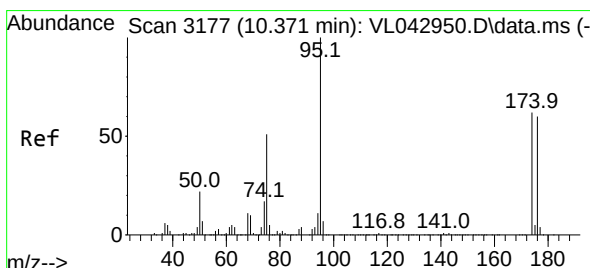
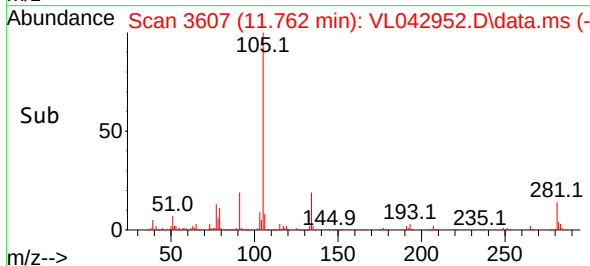
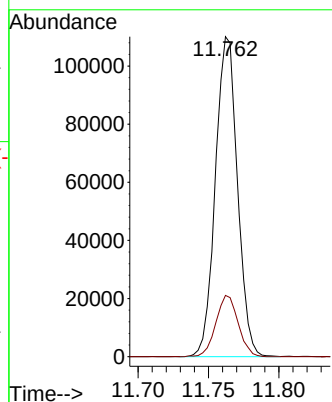
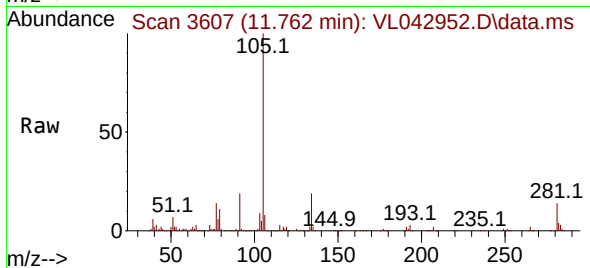




#67
 sec-Butylbenzene
 Concen: 1.070 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

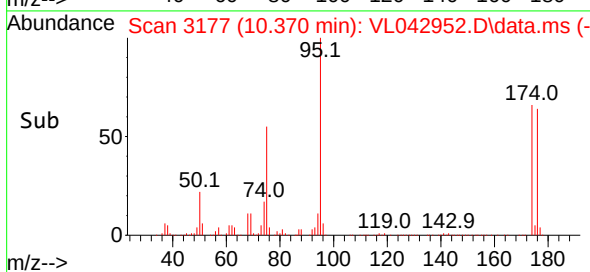
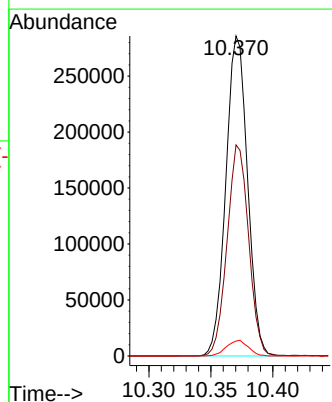
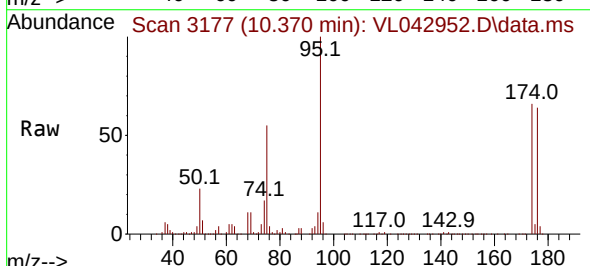
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

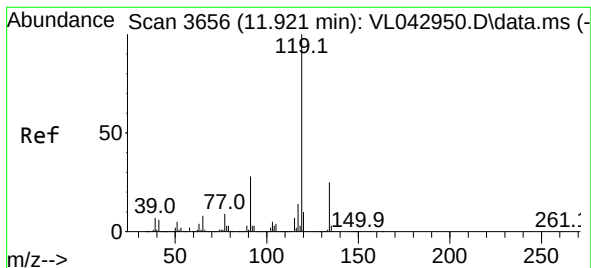
Tgt Ion:105 Resp: 120070
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.7 23.5



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.960 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.000 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

Tgt Ion: 95 Resp: 348878
 Ion Ratio Lower Upper
 95 100
 174 65.3 51.4 77.2
 175 4.9 4.0 6.0

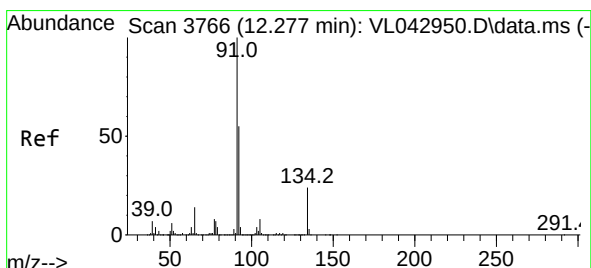
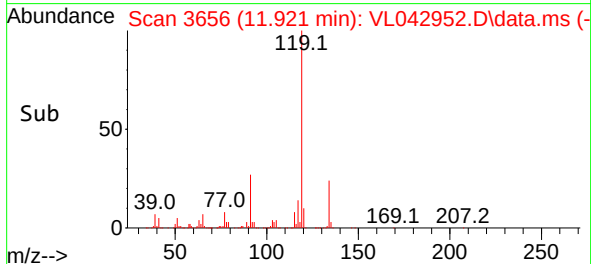
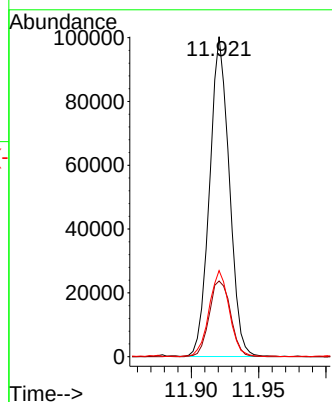
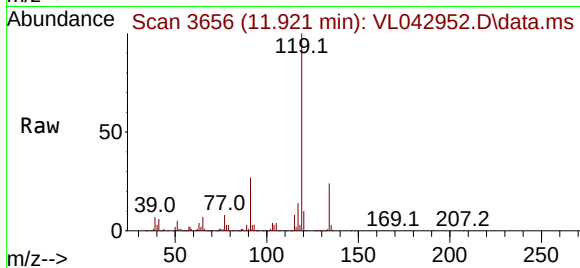




#69
p-Isopropyltoluene
Concen: 1.074 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

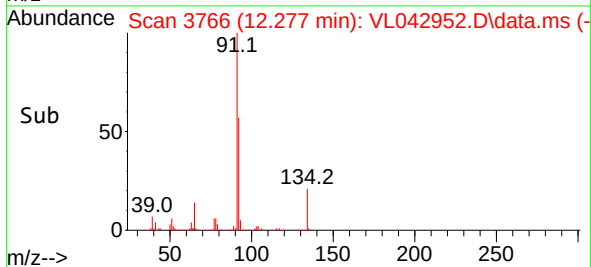
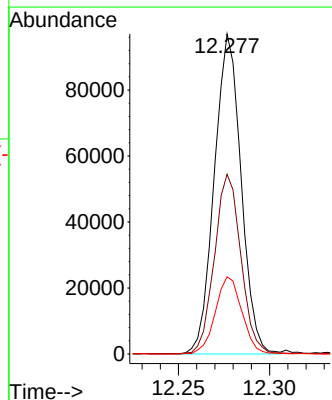
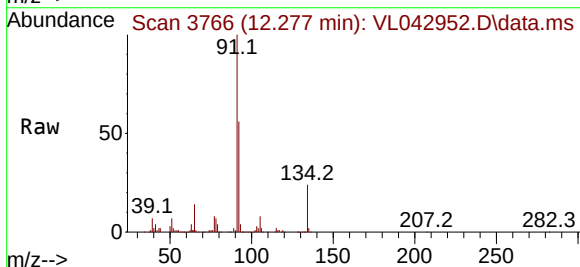
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

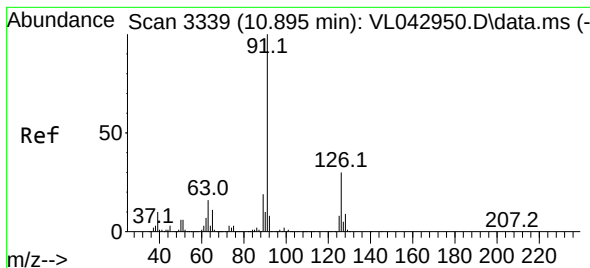
Tgt Ion: 119 Resp: 101749
Ion Ratio Lower Upper
119 100
134 25.8 21.0 31.4
91 28.3 22.3 33.5



#70
n-Butylbenzene
Concen: 1.069 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 91 Resp: 98908
Ion Ratio Lower Upper
91 100
92 56.0 44.0 66.0
134 24.0 19.4 29.2

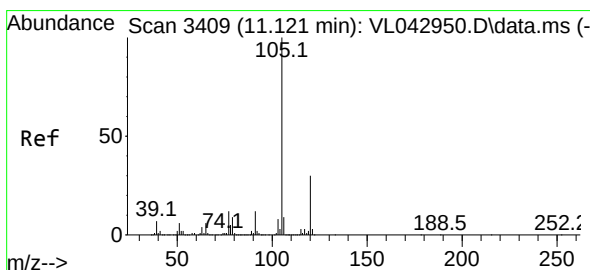
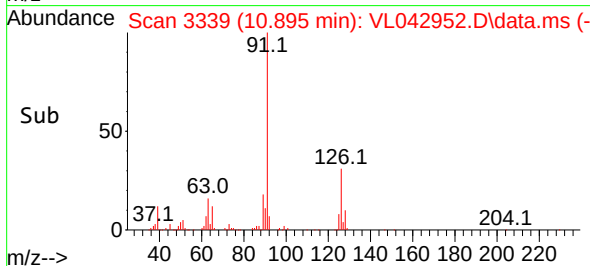
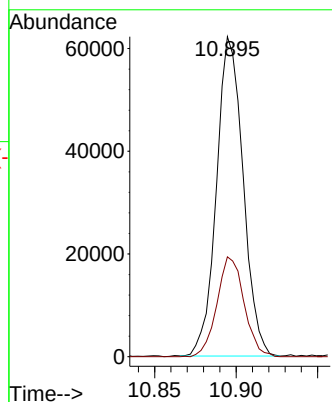
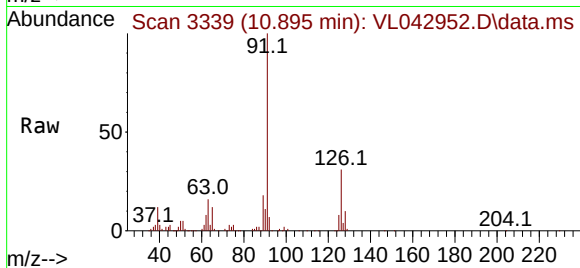




#71
2-Chlorotoluene
Concen: 1.033 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

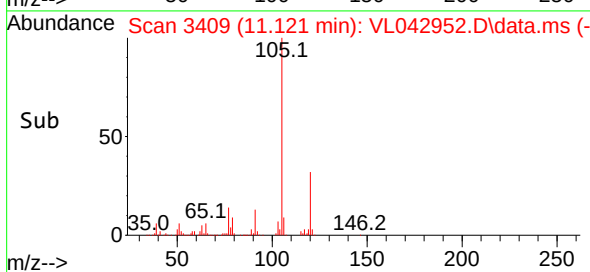
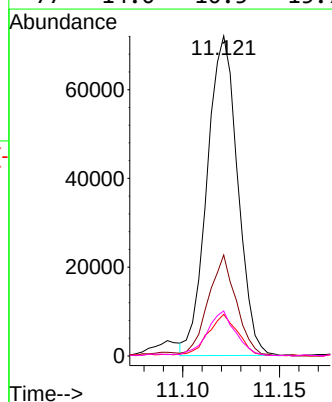
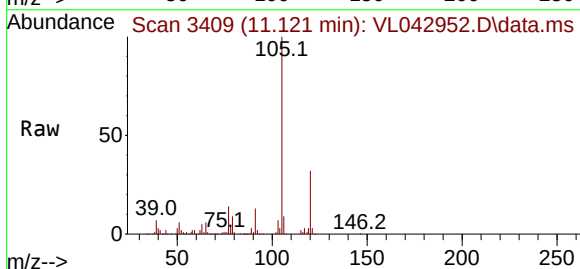
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

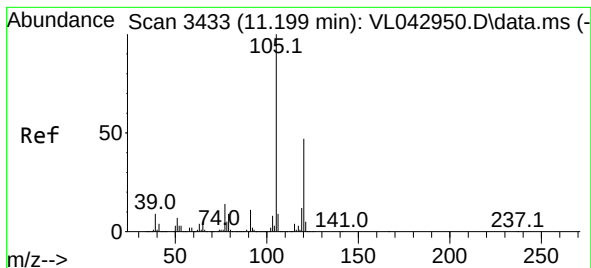
Tgt Ion: 91 Resp: 70577
Ion Ratio Lower Upper
91 100
126 31.8 12.3 49.3



#72
4-Ethyltoluene
Concen: 1.040 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042952.D
Acq: 22 Sep 2025 10:48

Tgt Ion: 105 Resp: 79095
Ion Ratio Lower Upper
105 100
120 30.3 24.2 36.2
91 13.3 10.0 15.0
77 14.0 10.5 15.7





#73

1,3,5-Trimethylbenzene

Concen: 1.024 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

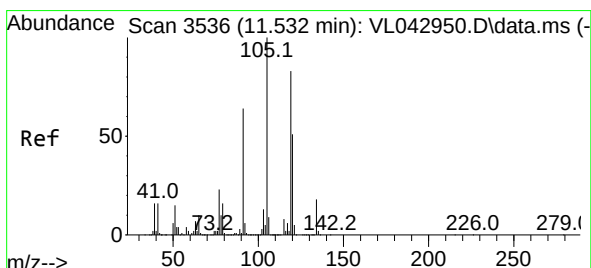
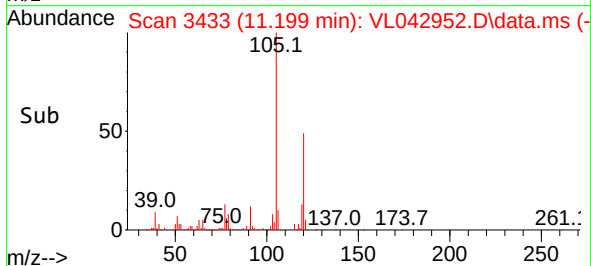
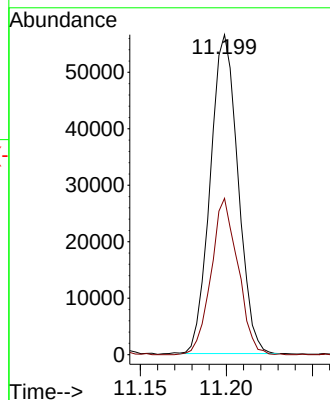
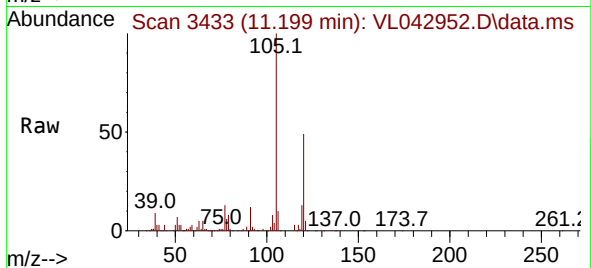
VSTDIC001

Tgt Ion:105 Resp: 63174

Ion Ratio Lower Upper

105 100

120 48.8 38.0 57.0



#74

1,2,4-Trimethylbenzene

Concen: 1.049 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Tgt Ion:105 Resp: 71411

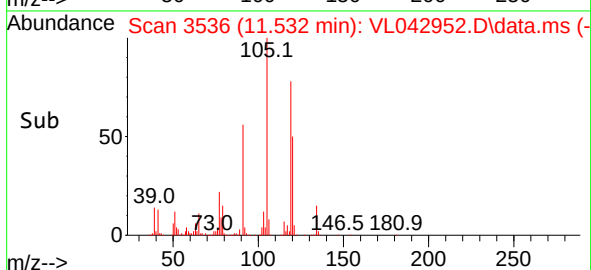
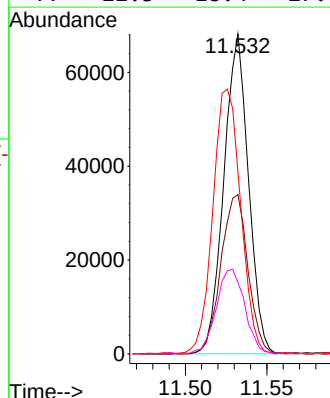
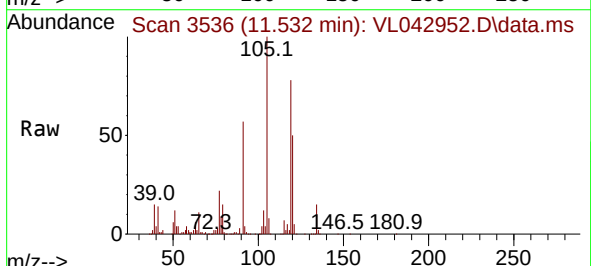
Ion Ratio Lower Upper

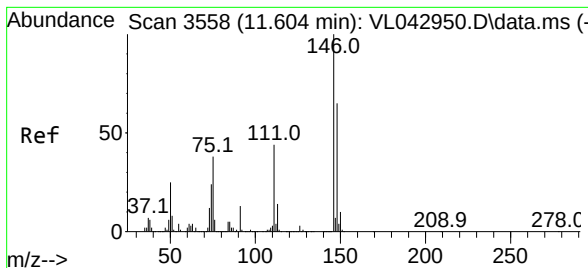
105 100

120 49.9 40.9 61.3

91 56.6 51.2 76.8

77 22.3 18.4 27.6





#75

1,3-Dichlorobenzene

Concen: 1.060 ppbv

RT: 11.603 min Scan# 3558

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

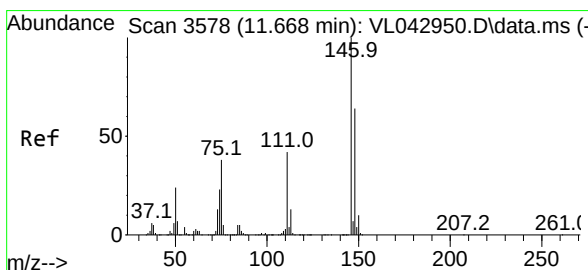
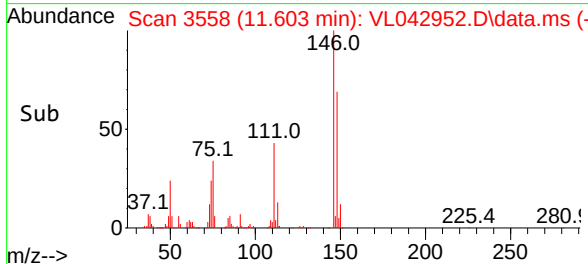
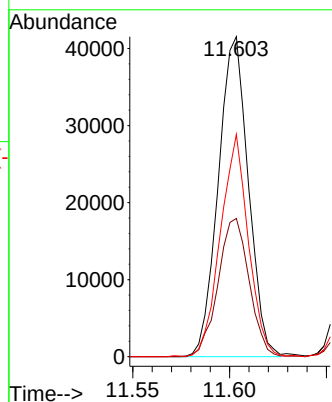
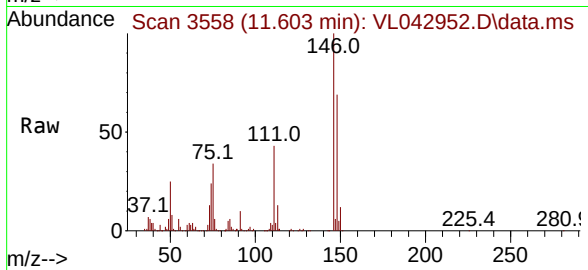
Tgt Ion:146 Resp: 44769

Ion Ratio Lower Upper

146 100

111 44.6 22.3 66.9

148 64.7 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 1.022 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

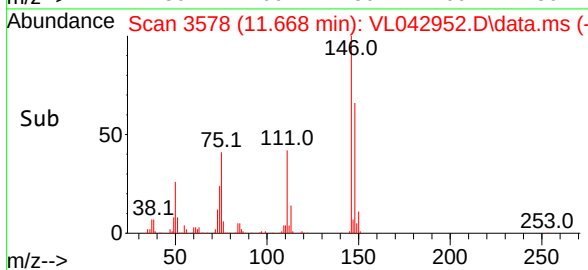
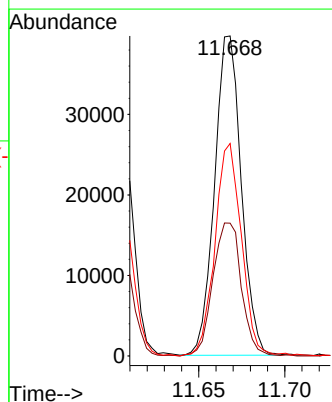
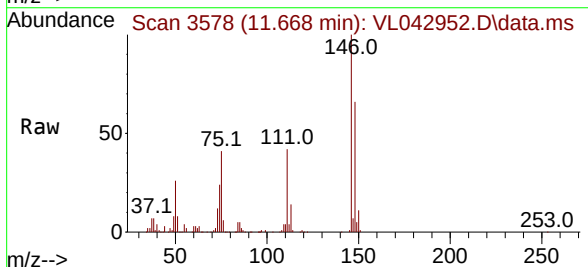
Tgt Ion:146 Resp: 42879

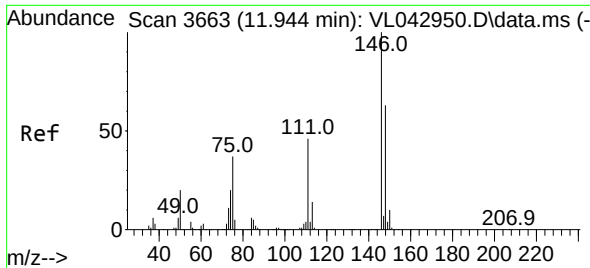
Ion Ratio Lower Upper

146 100

111 44.5 21.5 64.5

148 66.4 31.9 95.5

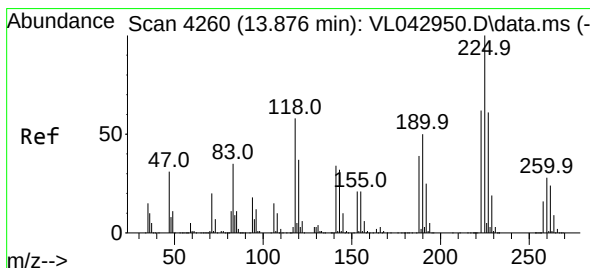
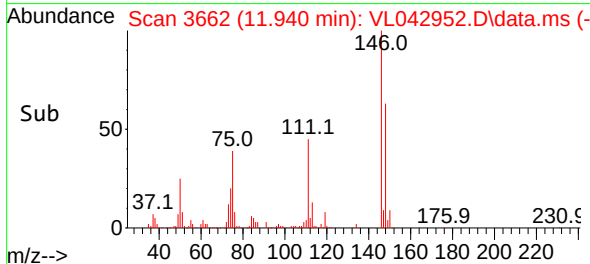
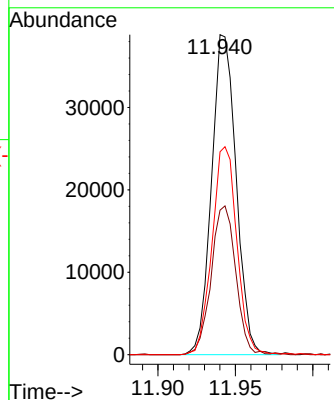
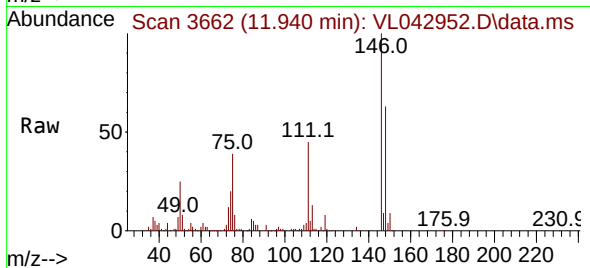




#77
 1,2-Dichlorobenzene
 Concen: 1.068 ppbv
 RT: 11.940 min Scan# 3663
 Delta R.T. -0.003 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

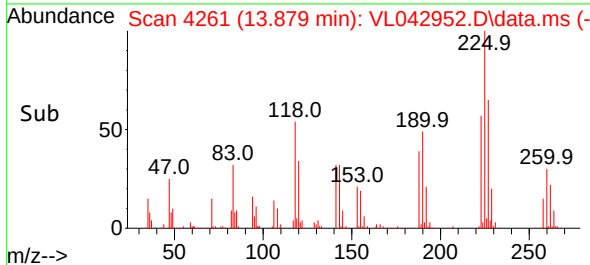
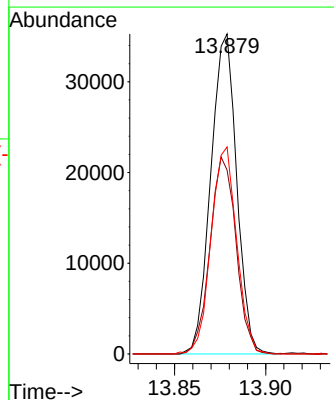
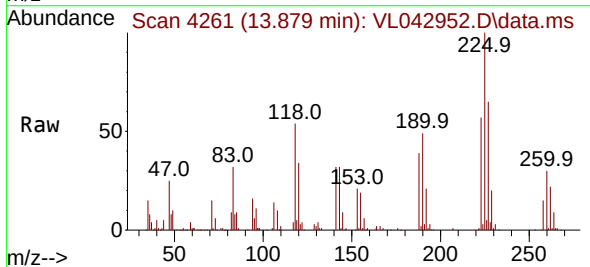
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

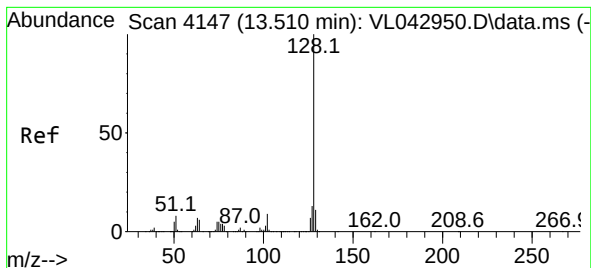
Tgt Ion:146	Resp:	42911
Ion	Ratio	Lower Upper
146	100	
111	46.6	23.1 69.3
148	65.9	32.0 96.0



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.107 ppbv
 RT: 13.879 min Scan# 4261
 Delta R.T. 0.003 min
 Lab File: VL042952.D
 Acq: 22 Sep 2025 10:48

Tgt Ion:225	Resp:	34798
Ion	Ratio	Lower Upper
225	100	
223	62.0	50.1 75.1
227	64.0	50.4 75.6





#79

Naphthalene

Concen: 1.028 ppbv

RT: 13.510 min Scan# 4147

Delta R.T. -0.000 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

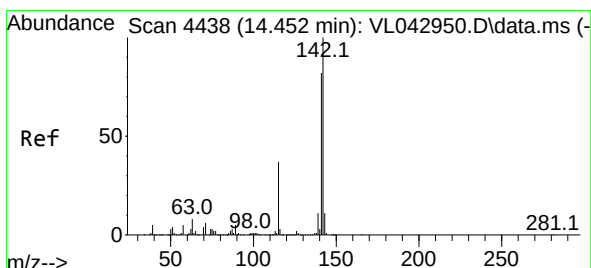
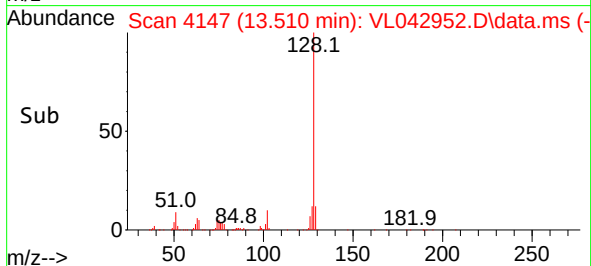
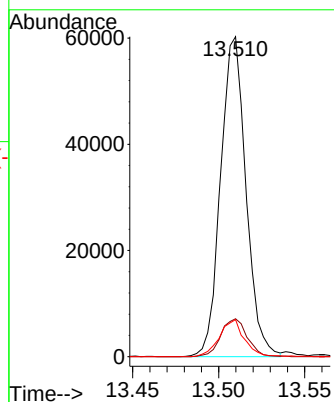
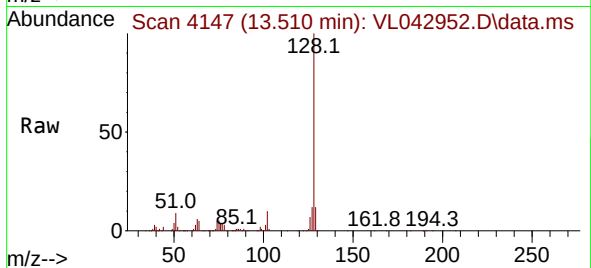
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:	128	Resp:	61925
Ion Ratio	Lower	Upper	
128	100		
127	11.8	10.6	15.8
129	11.6	9.0	13.6



#80

Naphthalene,2-methyl-

Concen: 0.920 ppbv

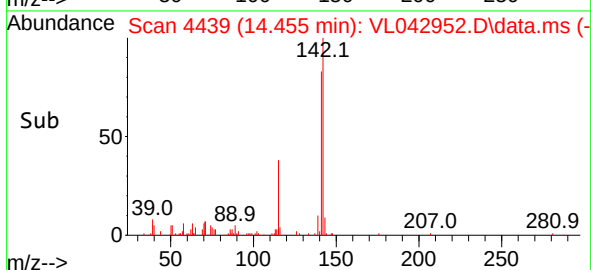
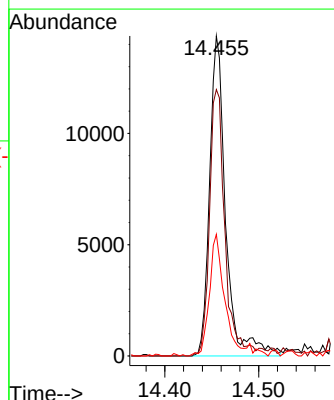
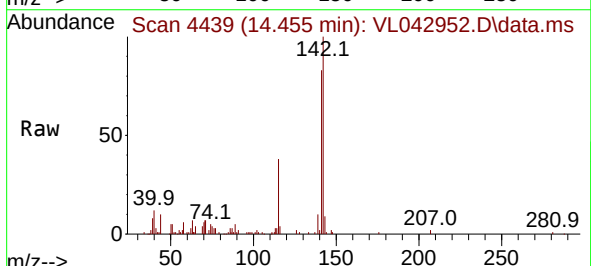
RT: 14.455 min Scan# 4439

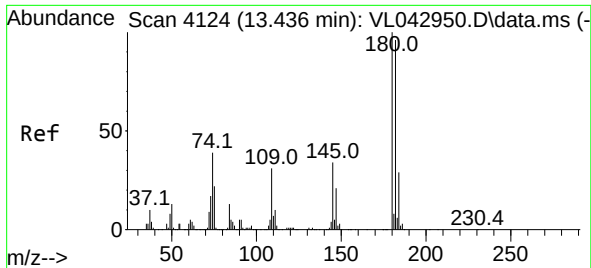
Delta R.T. 0.003 min

Lab File: VL042952.D

Acq: 22 Sep 2025 10:48

Tgt Ion:	142	Resp:	17116
Ion Ratio	Lower	Upper	
142	100		
141	83.8	65.1	97.7
115	38.5	28.9	43.3





#81

1,2,4-Trichlorobenzene

Concen: 1.007 ppbv

RT: 13.435 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042952.D

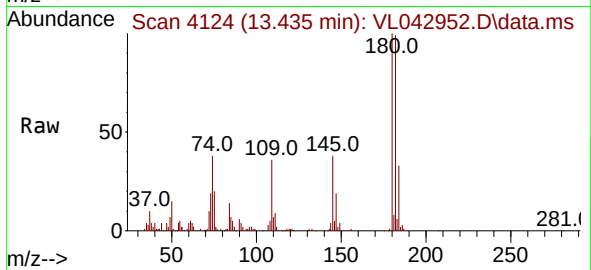
Acq: 22 Sep 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001



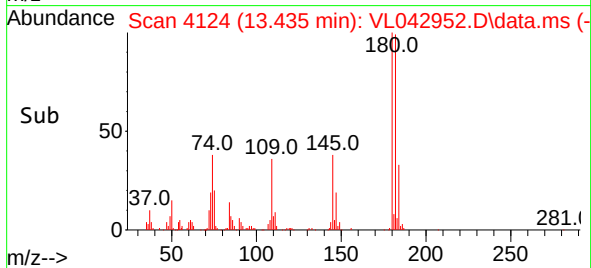
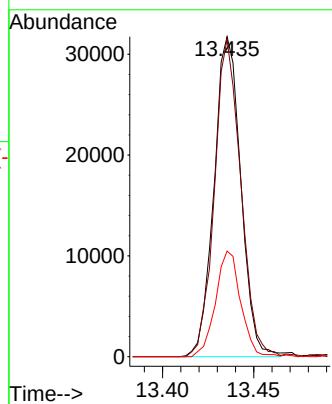
Tgt Ion:180 Resp: 32411

Ion Ratio Lower Upper

180 100

182 98.0 75.7 113.5

184 31.2 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042953.D
 Acq On : 22 Sep 2025 11:22
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Quant Time: Sep 23 02:11:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	165435	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	509306	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	464091	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	347374	10.027	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	11508	0.517	ppbv	96
3) Chlorodifluoromethane	1.476	51	14744	0.532	ppbv #	90
4) Chloromethane	1.534	50	5729	0.569	ppbv	97
5) Vinyl Chloride	1.580	62	4373	0.480	ppbv	93
6) Bromomethane	1.667	94	1850	0.576	ppbv	100
7) Chloroethane	1.703	64	1936	0.548	ppbv #	87
8) Dichlorotetrafluoroethane	1.554	85	10149	0.534	ppbv	96
9) Propene	1.483	41	6482	0.537	ppbv	94
10) Heptane	4.978	43	12067	0.373	ppbv #	67
11) Trichlorofluoromethane	1.877	101	11200	0.522	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	9346	0.538	ppbv	100
13) Ethanol	1.887	45	7431	6.426	ppbv #	54
14) Bromoethene	1.784	108	3553	0.541	ppbv #	84
15) Acetone	1.835	43	12326	0.572	ppbv #	86
16) 1,3-Butadiene	1.609	39	6215	0.611	ppbv #	82
17) tert-Butyl alcohol	2.043	59	13128	0.555	ppbv #	77
18) 1,1-Dichloroethene	2.033	96	4543	0.565	ppbv	93
19) Isopropyl Alcohol	1.887	45	7431	0.574	ppbv #	46
20) Methylene Chloride	2.062	84	6881	0.430	ppbv	87
21) Allyl Chloride	2.098	41	7481	0.499	ppbv #	69
22) trans-1,2-Dichloroethene	2.719	96	7704	0.843	ppbv	89
23) Vinyl Acetate	2.460	43	18264	0.593	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	9484	0.529	ppbv #	98
25) Ethyl Acetate	2.836	43	28162	0.517	ppbv #	95
26) Hexane	2.823	57	13406	0.540	ppbv	98
27) Carbon Disulfide	2.149	76	11535	0.518	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	7886	0.611	ppbv #	65
29) Chloroform	2.845	83	17188	0.530	ppbv	100
30) Cyclohexane	3.855	84	10856	0.523	ppbv	93
31) cis-1,2-Dichloroethene	2.719	61	11939	0.513	ppbv	99
32) 1,1,1-Trichloroethane	3.366	97	16684	0.474	ppbv	96
34) 2-Butanone	2.557	43	18948	0.531	ppbv	96
35) Carbon Tetrachloride	3.761	117	16799	0.513	ppbv	94
36) Benzene	3.654	78	24807	0.519	ppbv #	95
37) 1,2-Dichloroethane	3.217	62	12788	0.508	ppbv	100
38) Trichloroethene	4.544	130	12243	0.515	ppbv #	88
39) 1,2-Dichloropropane	4.315	63	8772	0.502	ppbv #	86
40) 1,4-Dioxane	4.593	88	1641	0.202	ppbv #	1
41) Tetrahydrofuran	3.059	42	10871	0.530	ppbv	95
42) Bromodichloromethane	4.486	83	17552	0.501	ppbv	96
43) Methyl Methacrylate	4.881	69	7252	0.374	ppbv #	56
44) 2,2,4-Trimethylpentane	4.642	57	17345	0.210	ppbv #	10
45) t-1,3-Dichloropropene	6.409	75	5766	0.276	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042953.D
 Acq On : 22 Sep 2025 11:22
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

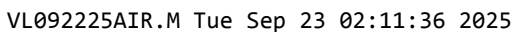
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

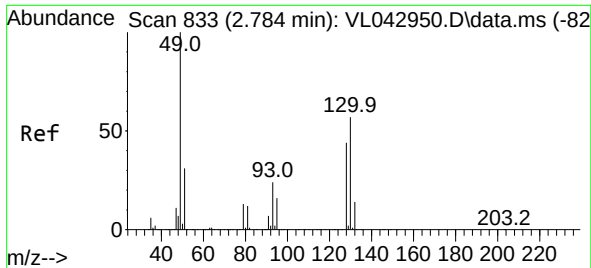
Quant Time: Sep 23 02:11:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	10078	0.379	ppbv	98
47) 1,1,2-Trichloroethane	6.580	97	5868	0.318	ppbv #	91
48) Dibromochloromethane	7.383	129	14563	0.493	ppbv	99
49) Bromoform	9.480	173	12136	0.473	ppbv	97
50) 4-Methyl-2-Pentanone	5.761	43	23639	0.493	ppbv	95
51) 2-Hexanone	7.441	43	18322	0.480	ppbv #	97
52) Tetrachloroethene	8.228	164	4214	0.228	ppbv	94
53) Toluene	6.927	91	29404	0.519	ppbv	99
54) 1,2-Dibromoethane	7.648	107	13233	0.510	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.924	131	11535	0.519	ppbv #	1
57) Chlorobenzene	8.920	112	22463	0.530	ppbv	91
58) Ethyl Benzene	9.351	91	38459	0.505	ppbv	96
59) m/p-Xylene	9.526	91	18667	0.310	ppbv #	100
60) o-Xylene	9.959	91	30976	0.516	ppbv	98
61) Styrene	9.865	104	14048	0.495	ppbv	98
62) Isopropylbenzene	10.535	105	46640	0.521	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	15974	0.506	ppbv	97
64) n-propylbenzene	10.985	120	12333	0.527	ppbv	100
65) tert-Butylbenzene	11.529	119	42595	0.535	ppbv	99
66) Benzyl Chloride	11.613	91	3022	0.362	ppbv #	96
67) sec-Butylbenzene	11.765	105	58190	0.525	ppbv	99
69) p-Isopropyltoluene	11.924	119	48855	0.521	ppbv	100
70) n-Butylbenzene	12.280	91	44764	0.489	ppbv	100
71) 2-Chlorotoluene	10.898	91	35797	0.530	ppbv	96
72) 4-Ethyltoluene	11.125	105	39803	0.529	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	30932	0.507	ppbv	96
74) 1,2,4-Trimethylbenzene	11.532	105	35601	0.529	ppbv	97
75) 1,3-Dichlorobenzene	11.607	146	21307	0.510	ppbv	98
76) 1,4-Dichlorobenzene	11.668	146	21404	0.516	ppbv	98
77) 1,2-Dichlorobenzene	11.943	146	20279	0.510	ppbv	95
78) Hexachloro-1,3-Butadiene	13.879	225	17515	0.563	ppbv	98
79) Naphthalene	13.510	128	25577	0.429	ppbv	97
80) Naphthalene,2-methyl-	14.458	142	8906	0.484	ppbv	92
81) 1,2,4-Trichlorobenzene	13.439	180	12920	0.406	ppbv	98

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

Quant Time: Sep 23 02:11:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

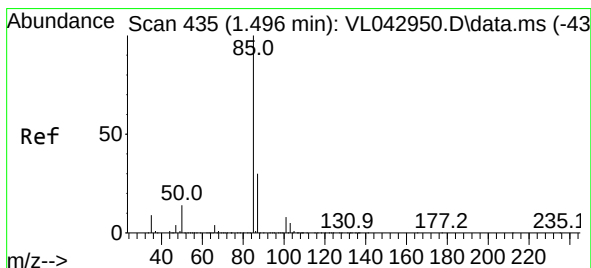
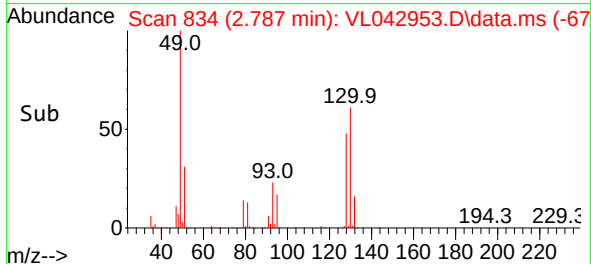
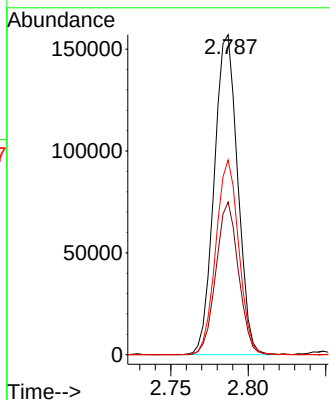
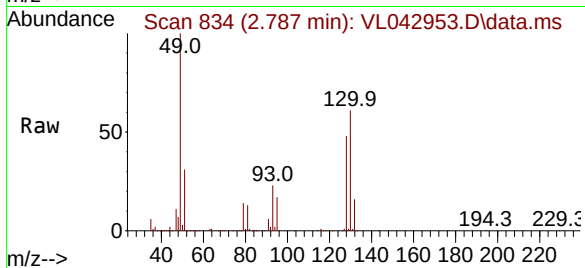




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

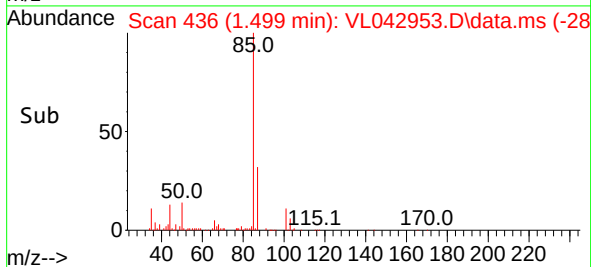
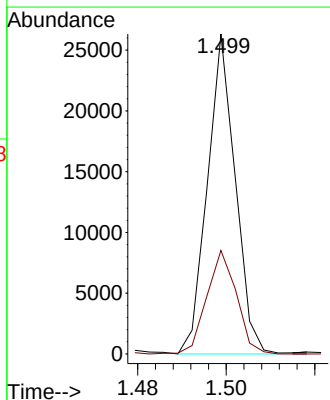
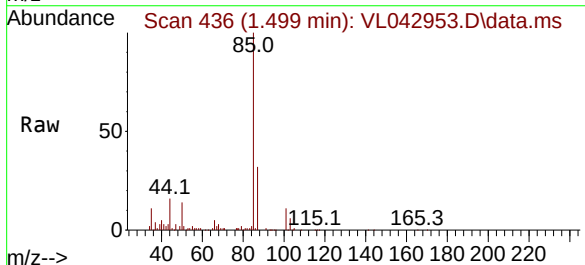
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

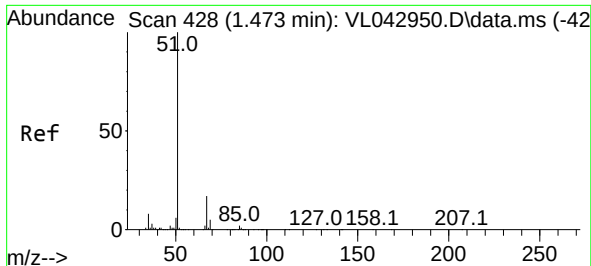
Tgt Ion: 49 Resp: 165435
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.8
130 59.5 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 0.517 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 85 Resp: 11508
Ion Ratio Lower Upper
85 100
87 32.4 24.3 36.5

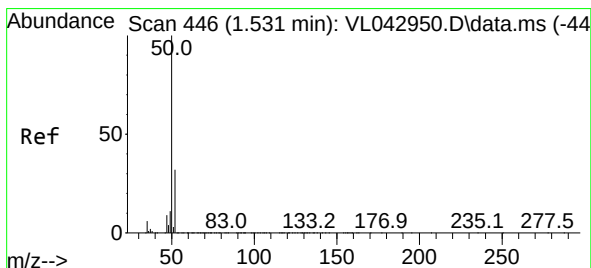
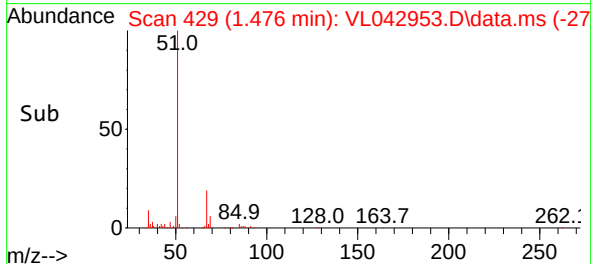
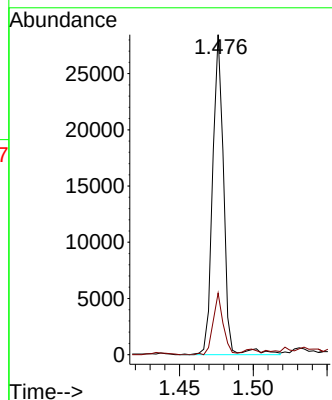
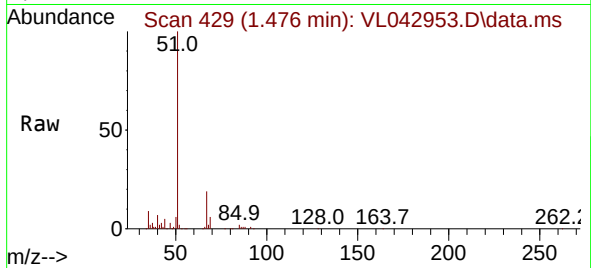




#3
Chlorodifluoromethane
Concen: 0.532 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

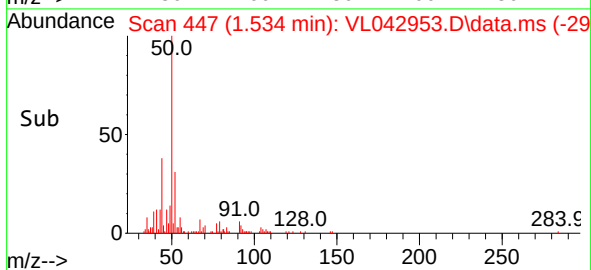
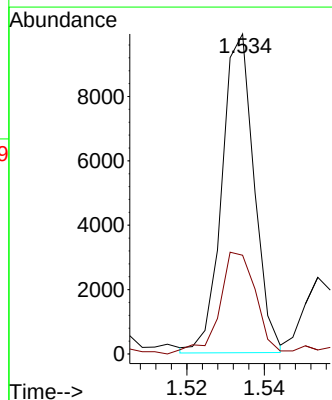
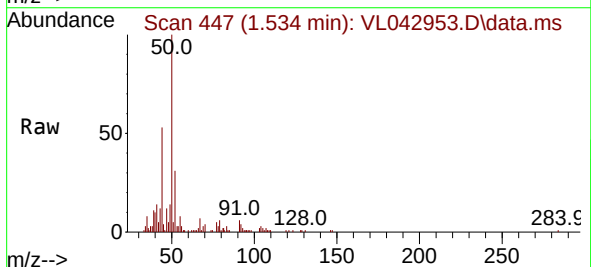
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

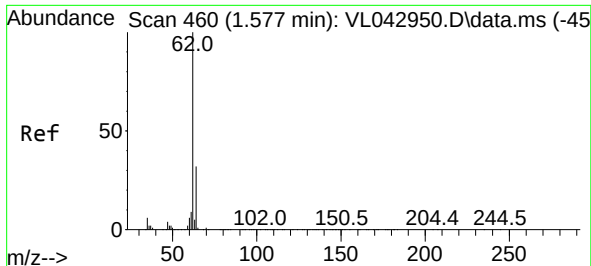
Tgt Ion: 51 Resp: 14744
Ion Ratio Lower Upper
51 100
67 21.7 13.8 20.8#



#4
Chloromethane
Concen: 0.569 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 50 Resp: 5729
Ion Ratio Lower Upper
50 100
52 30.5 25.9 38.9

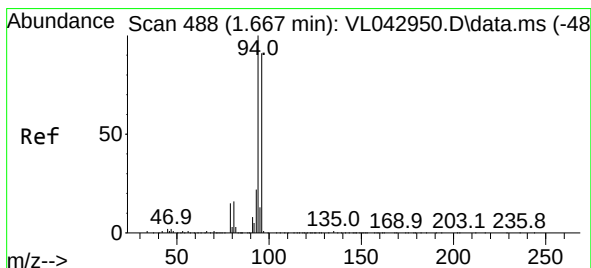
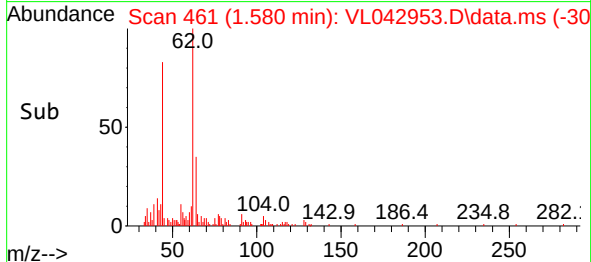
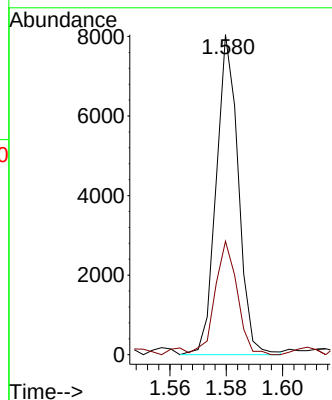
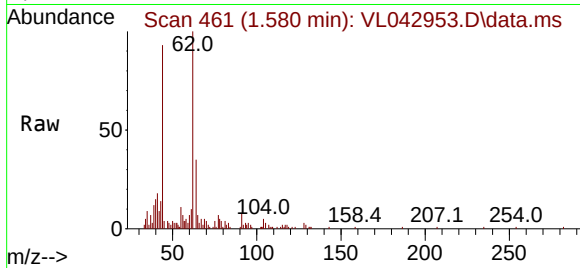




#5
 Vinyl Chloride
 Concen: 0.480 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

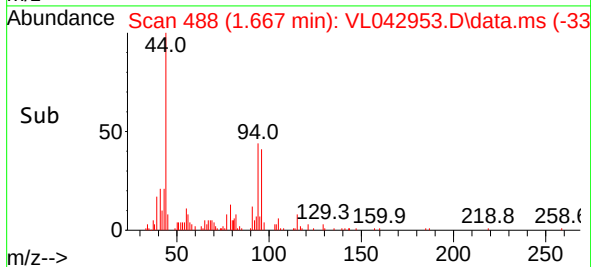
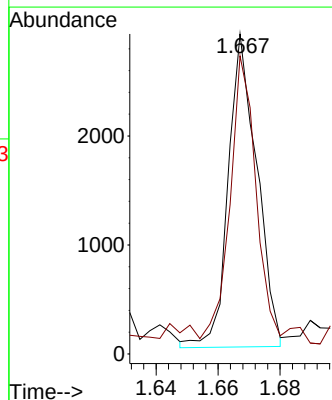
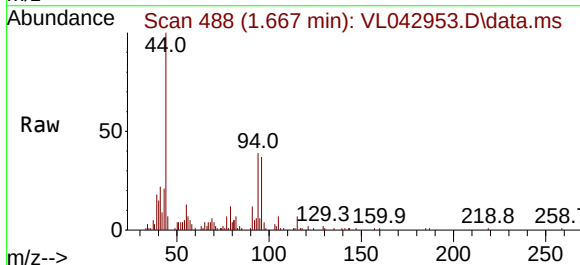
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

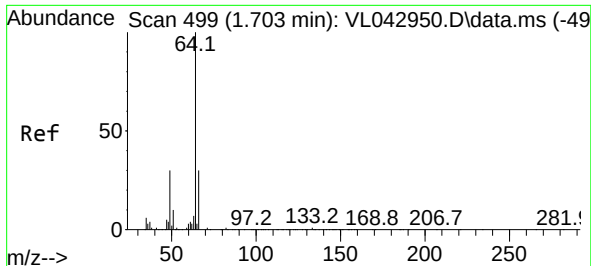
Tgt Ion: 62 Resp: 4373
 Ion Ratio Lower Upper
 62 100
 64 35.5 25.4 38.2



#6
 Bromomethane
 Concen: 0.576 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

Tgt Ion: 94 Resp: 1850
 Ion Ratio Lower Upper
 94 100
 96 90.9 72.6 108.8

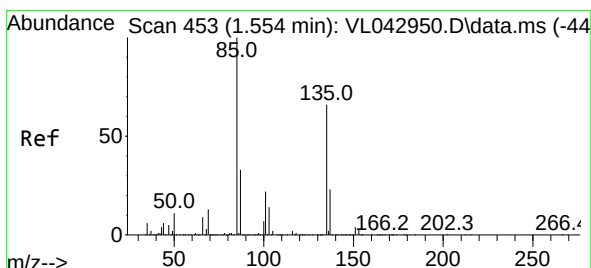
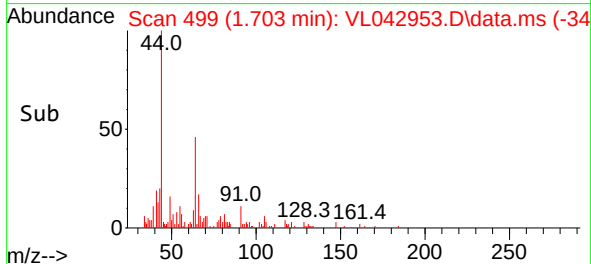
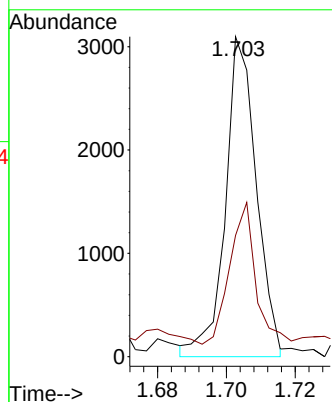
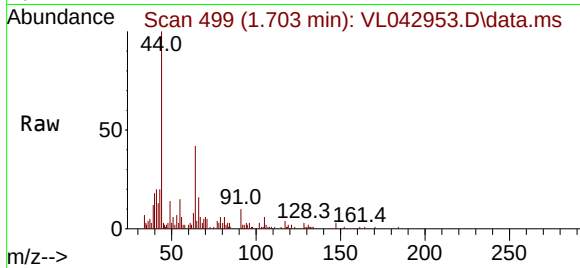




#7
Chloroethane
Concen: 0.548 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

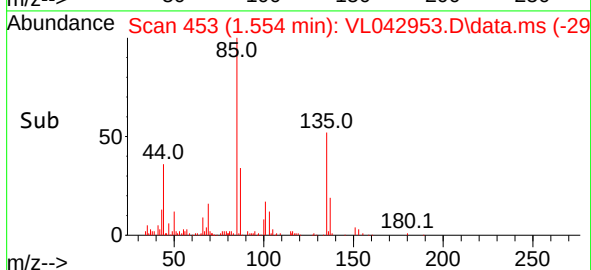
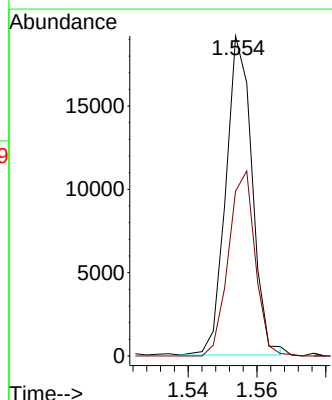
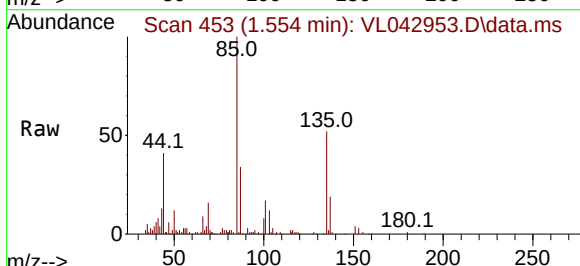
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

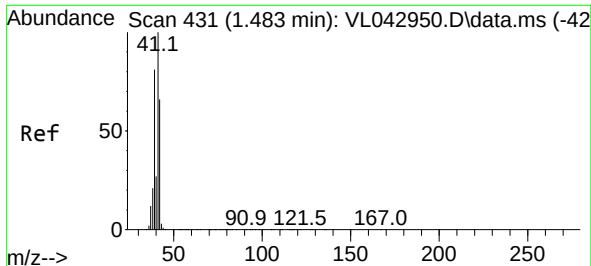
Tgt Ion: 64 Resp: 1936
Ion Ratio Lower Upper
64 100
66 37.9 24.6 36.8#



#8
Dichlorotetrafluoroethane
Concen: 0.534 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 85 Resp: 10149
Ion Ratio Lower Upper
85 100
135 59.1 49.7 74.5





#9

Propene

Concen: 0.537 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_1

ClientSampleId :

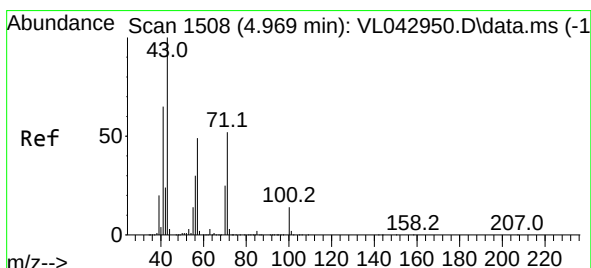
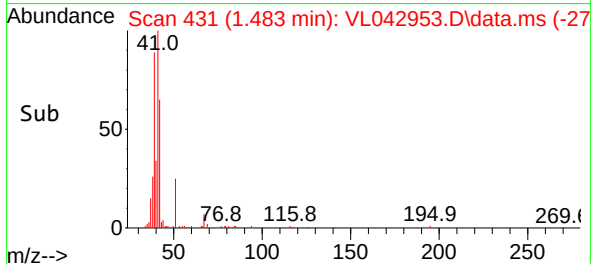
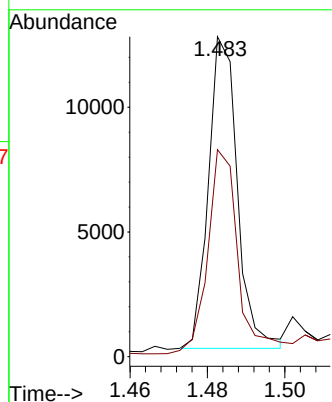
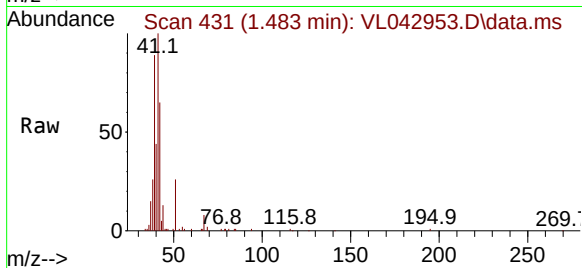
VSTDIC0.5

Tgt Ion: 41 Resp: 6482

Ion Ratio Lower Upper

41 100

42 77.1 57.4 86.2



#10

Heptane

Concen: 0.373 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.010 min

Lab File: VL042953.D

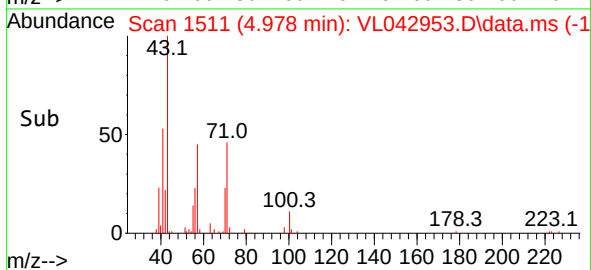
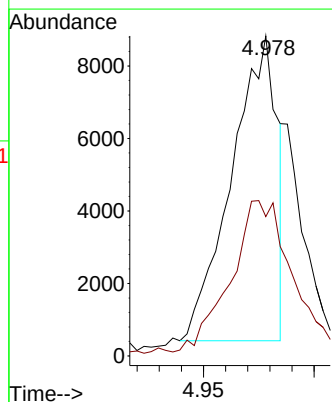
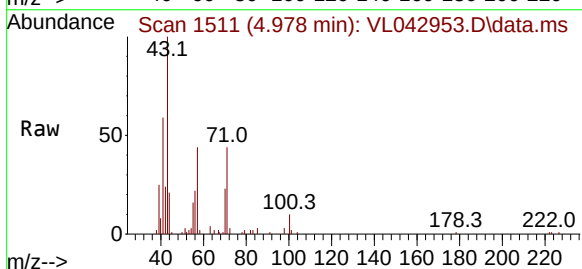
Acq: 22 Sep 2025 11:22

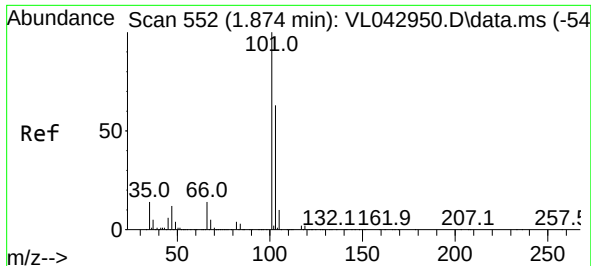
Tgt Ion: 43 Resp: 12067

Ion Ratio Lower Upper

43 100

57 70.6 38.6 57.8#

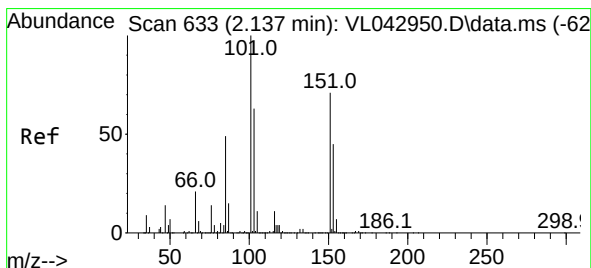
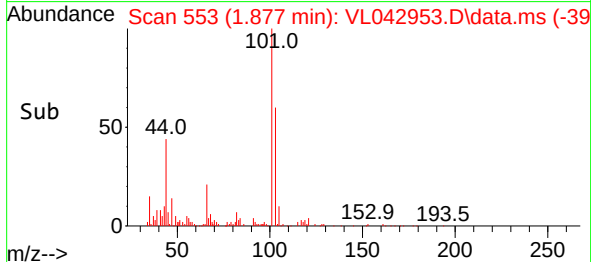
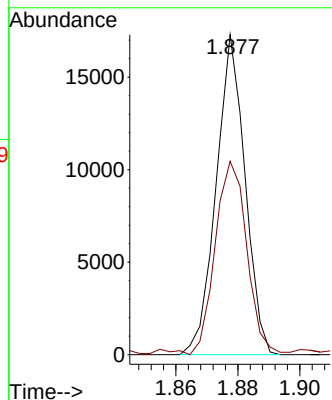
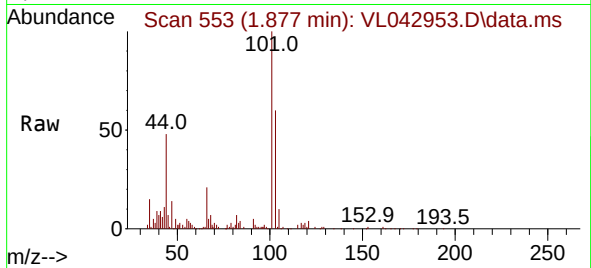




#11
 Trichlorofluoromethane
 Concen: 0.522 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

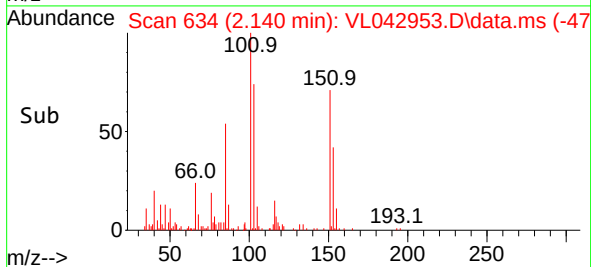
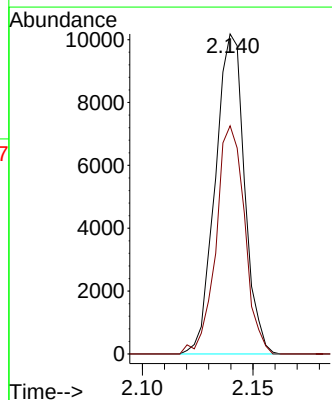
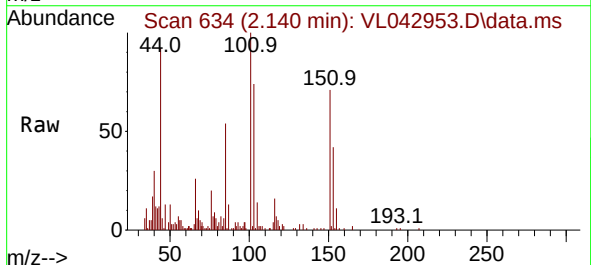
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

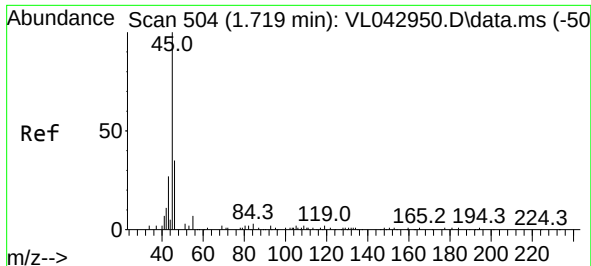
Tgt Ion:101 Resp: 11200
 Ion Ratio Lower Upper
 101 100
 103 59.7 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.538 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

Tgt Ion:101 Resp: 9346
 Ion Ratio Lower Upper
 101 100
 151 69.7 55.7 83.5

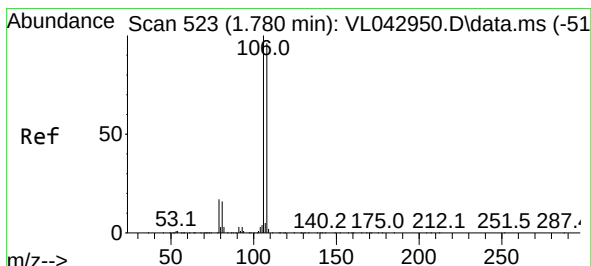
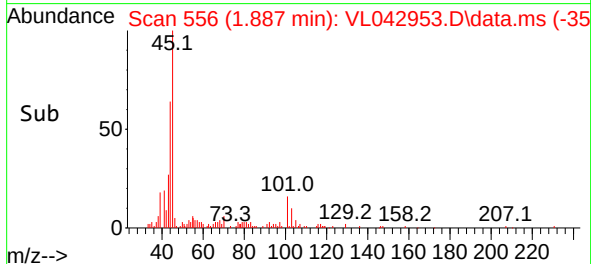
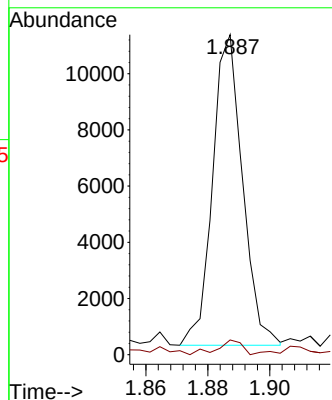
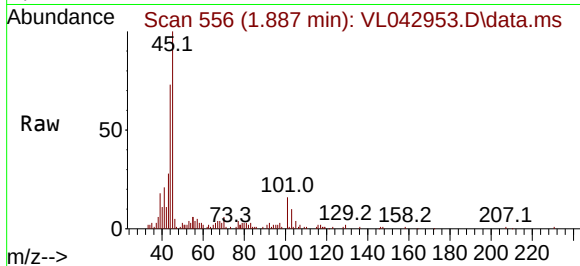




#13
Ethanol
Concen: 6.426 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.168 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

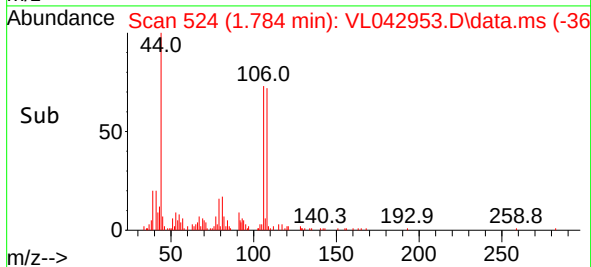
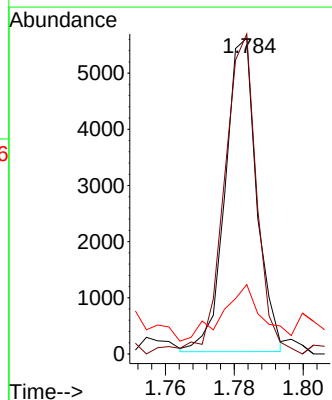
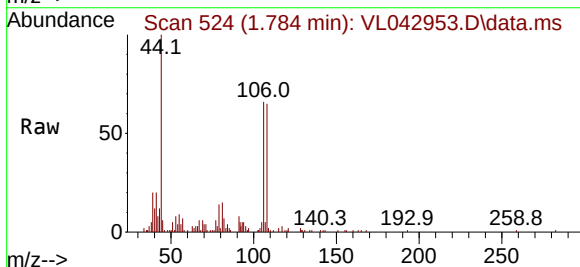
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

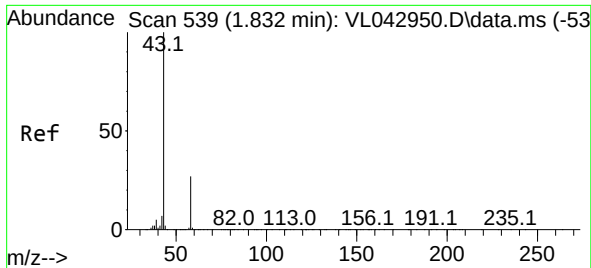
Tgt Ion: 45 Resp: 7431
Ion Ratio Lower Upper
45 100
46 11.9 16.2 64.6#



#14
Bromoethene
Concen: 0.541 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 108 Resp: 3553
Ion Ratio Lower Upper
108 100
106 115.9 86.0 129.0
79 46.0 14.2 21.2#

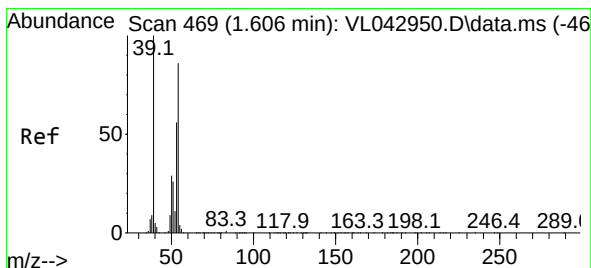
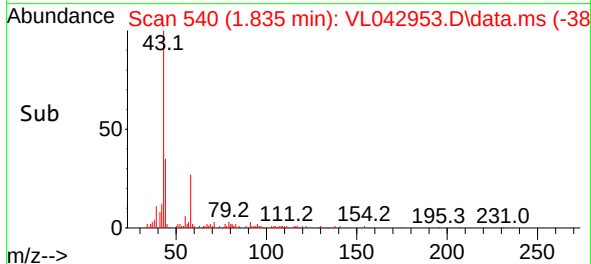
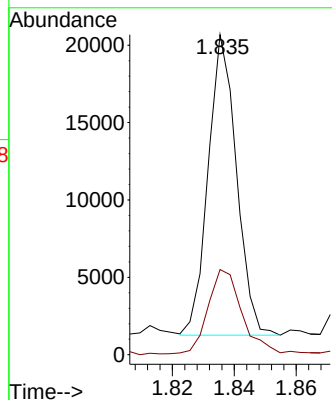
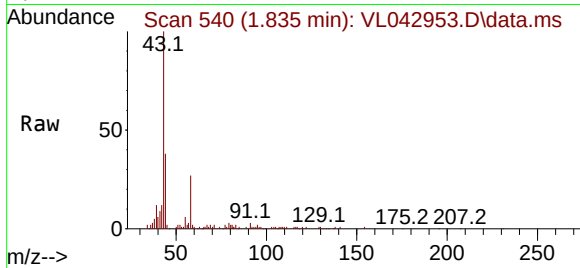




#15
Acetone
Concen: 0.572 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

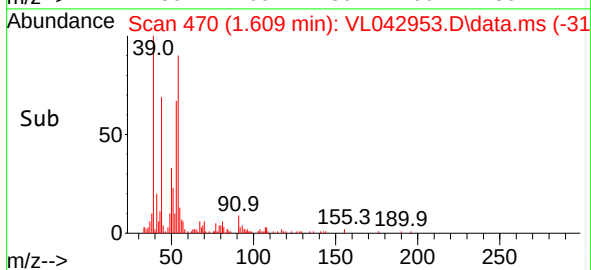
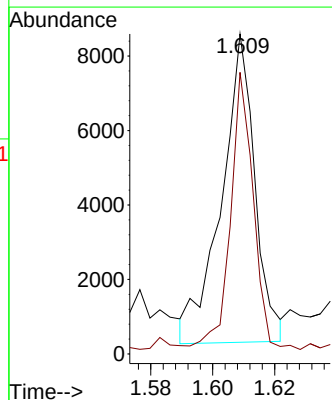
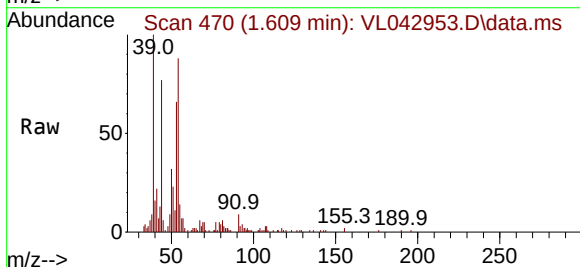
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

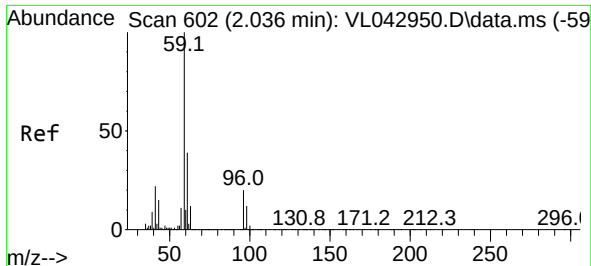
Tgt Ion: 43 Resp: 12326
Ion Ratio Lower Upper
43 100
58 35.4 22.3 33.5#



#16
1,3-Butadiene
Concen: 0.611 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 39 Resp: 6215
Ion Ratio Lower Upper
39 100
54 60.7 60.8 91.2#





#17

tert-Butyl alcohol

Concen: 0.555 ppbv

RT: 2.043 min Scan# 602

Delta R.T. 0.006 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

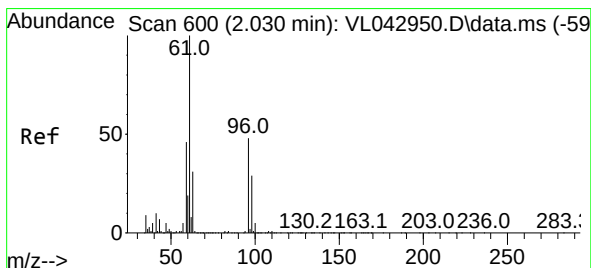
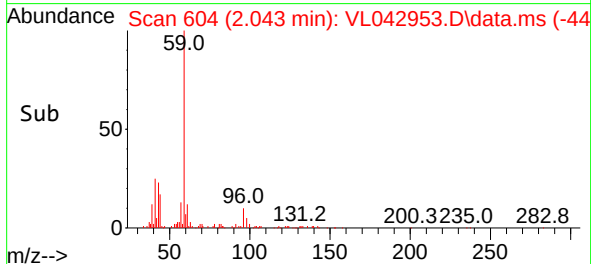
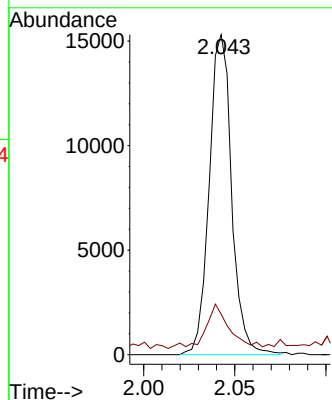
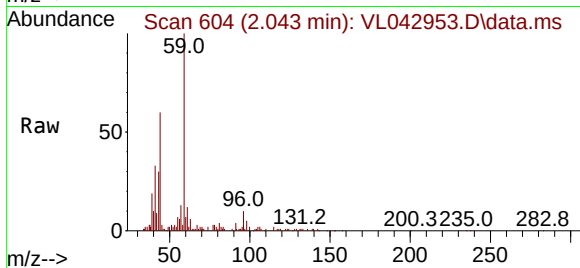
VSTDIC0.5

Tgt Ion: 59 Resp: 13128

Ion Ratio Lower Upper

59 100

57 19.4 8.6 12.8#



#18

1,1-Dichloroethene

Concen: 0.565 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

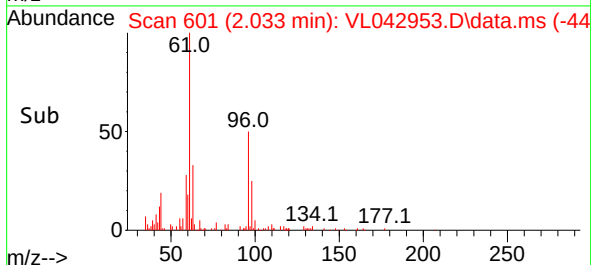
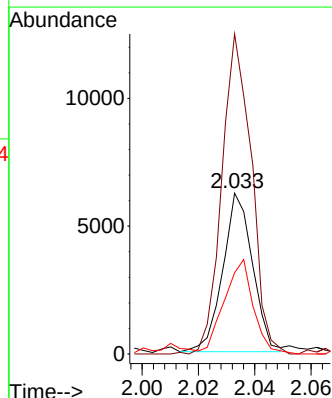
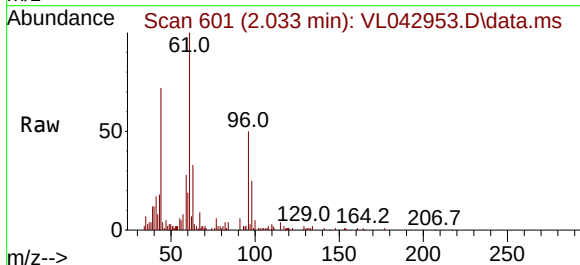
Tgt Ion: 96 Resp: 4543

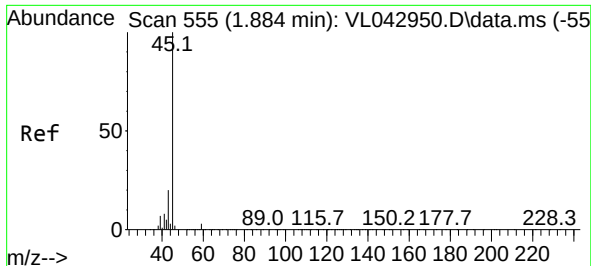
Ion Ratio Lower Upper

96 100

61 201.0 166.2 249.4

98 49.4 48.6 73.0

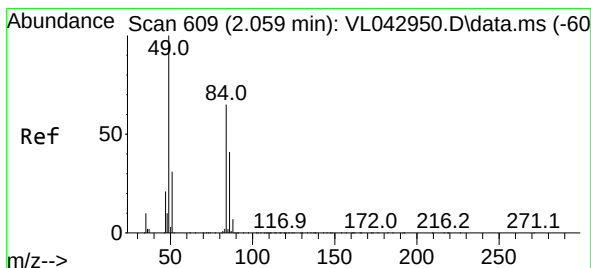
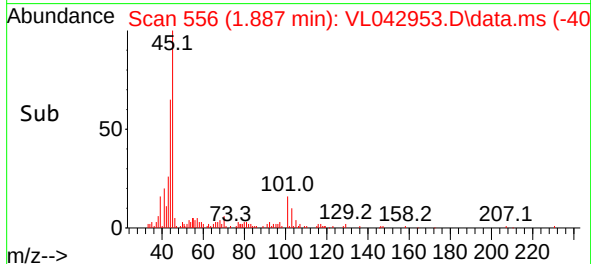
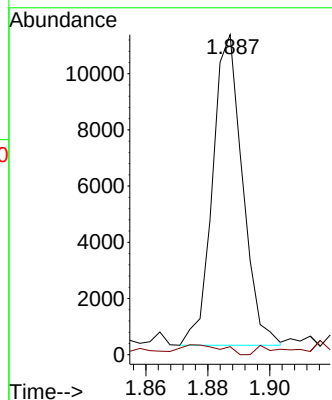
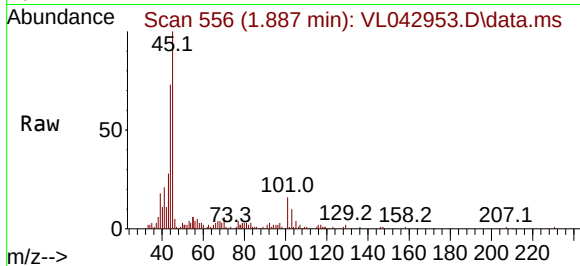




#19
Isopropyl Alcohol
Concen: 0.574 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

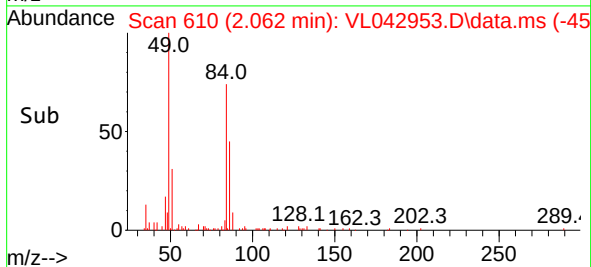
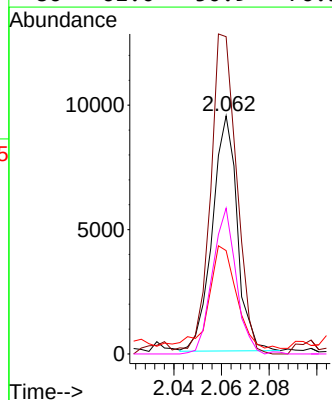
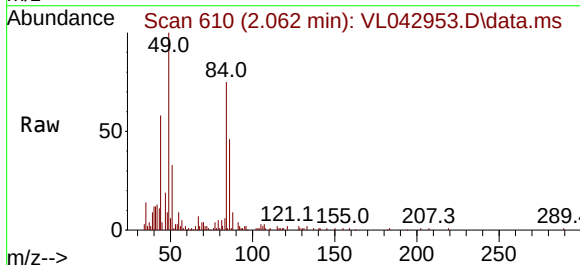
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

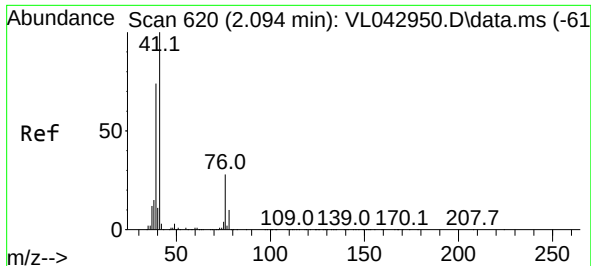
Tgt Ion: 45 Resp: 7431
Ion Ratio Lower Upper
45 100
58 6.1 31.0 46.6#



#20
Methylene Chloride
Concen: 0.430 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 84 Resp: 6881
Ion Ratio Lower Upper
84 100
49 132.8 124.1 186.1
51 40.9 39.8 59.8
86 61.0 50.9 76.3

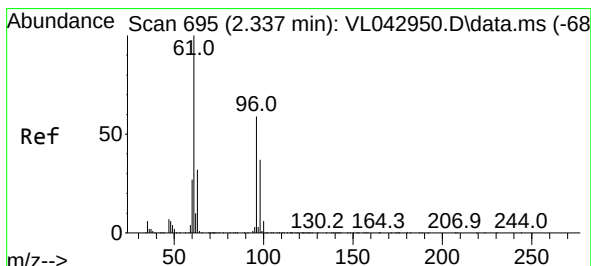
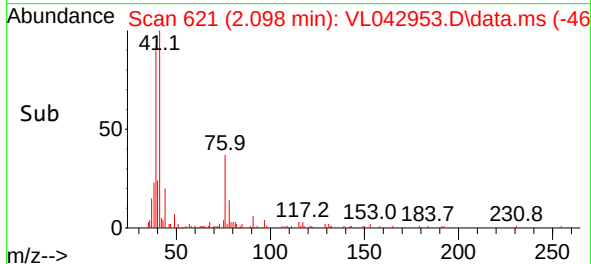
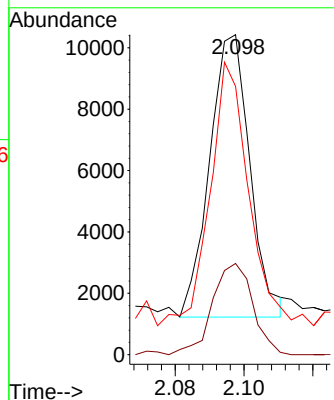
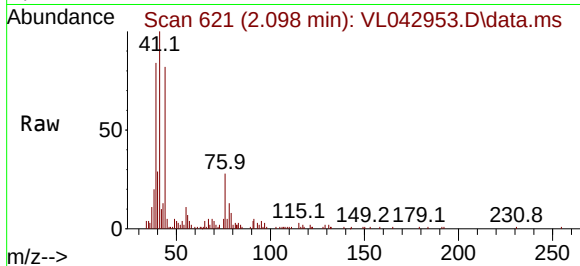




#21
 Allyl Chloride
 Concen: 0.499 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

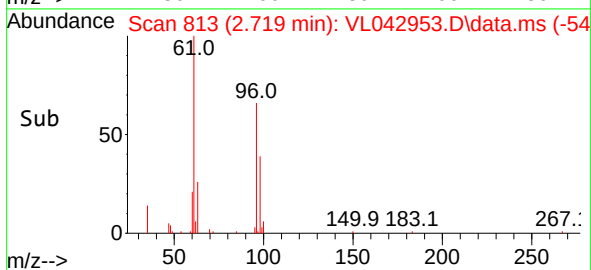
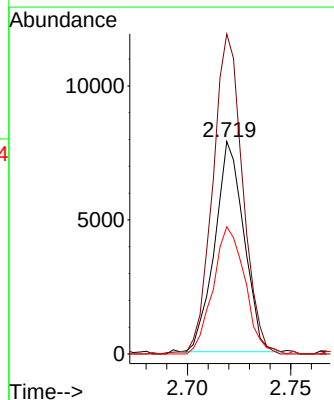
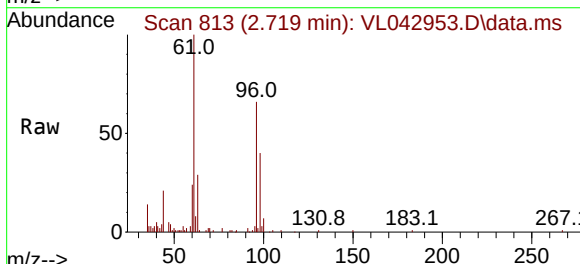
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

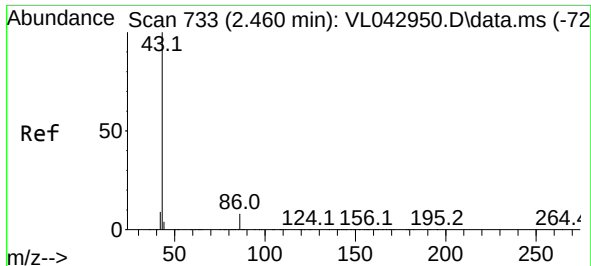
Tgt Ion: 41 Resp: 7481
 Ion Ratio Lower Upper
 41 100
 76 33.1 22.3 33.5
 39 110.1 61.3 91.9#



#22
 trans-1,2-Dichloroethene
 Concen: 0.843 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.382 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

Tgt Ion: 96 Resp: 7704
 Ion Ratio Lower Upper
 96 100
 61 152.2 136.5 204.7
 98 60.5 50.6 76.0

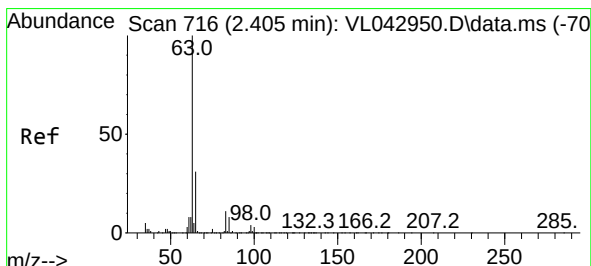
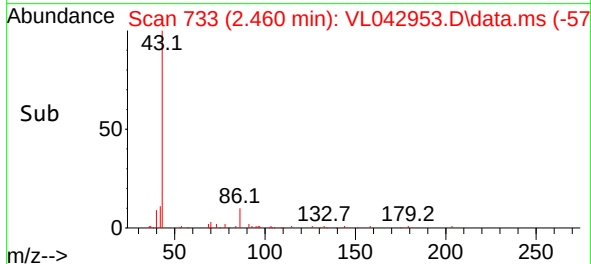
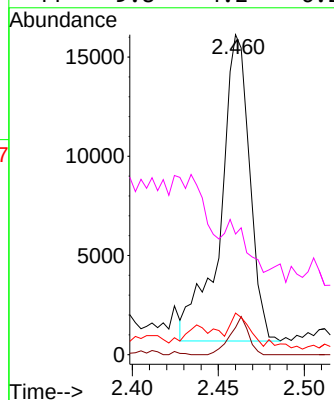
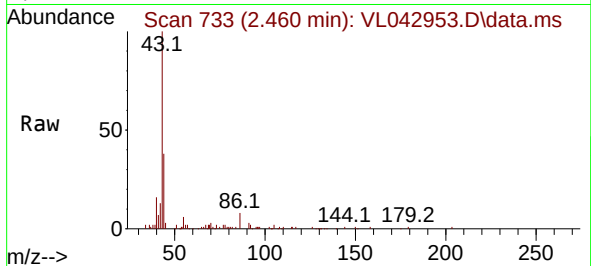




#23
 Vinyl Acetate
 Concen: 0.593 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

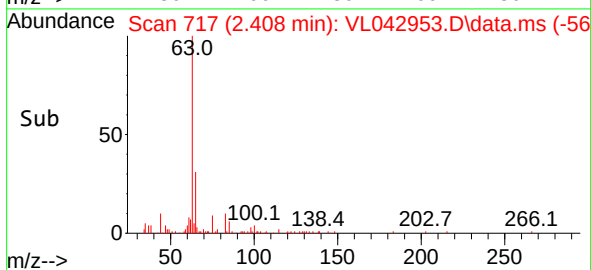
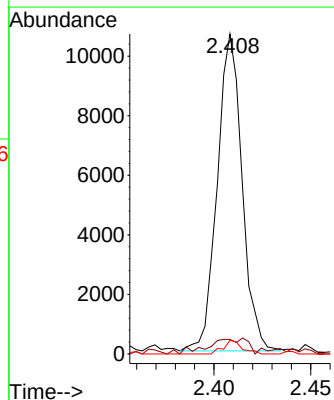
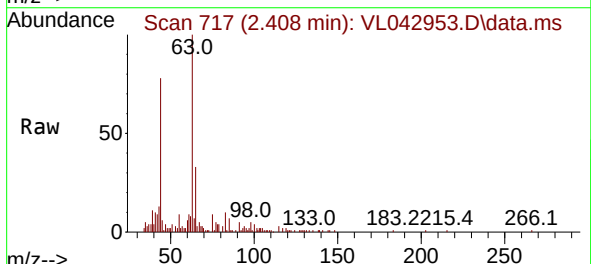
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

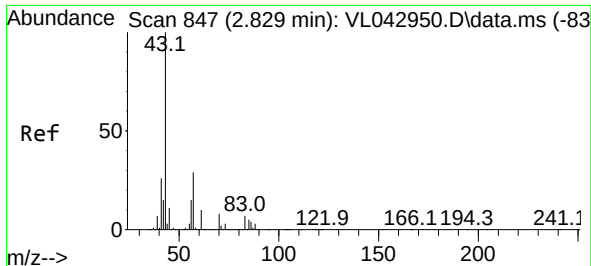
Tgt Ion:	43	Resp:	18264
Ion	Ratio	Lower	Upper
43	100		
86	8.9	6.2	9.2
42	10.1	7.4	11.0
44	9.8	4.2	6.2



#24
 1,1-Dichloroethane
 Concen: 0.529 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

Tgt Ion:	63	Resp:	9484
Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.2	6.6
100	4.3	1.4	4.0

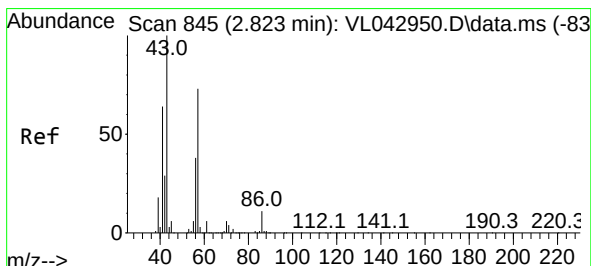
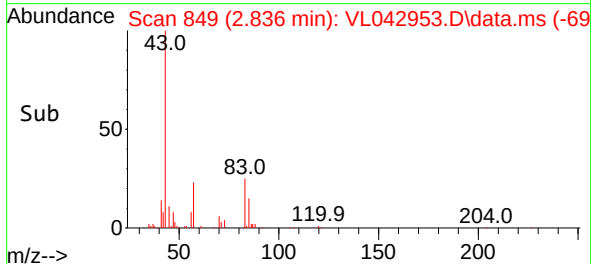
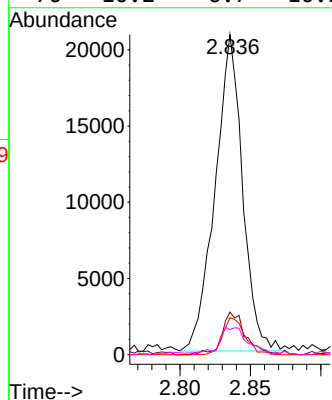
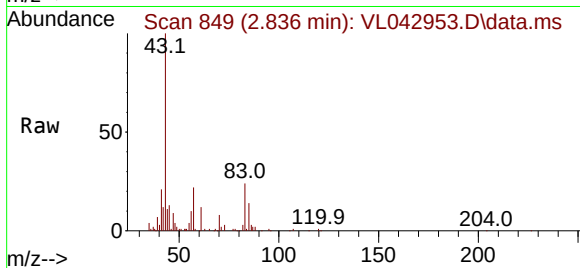




#25
Ethyl Acetate
Concen: 0.517 ppbv
RT: 2.836 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

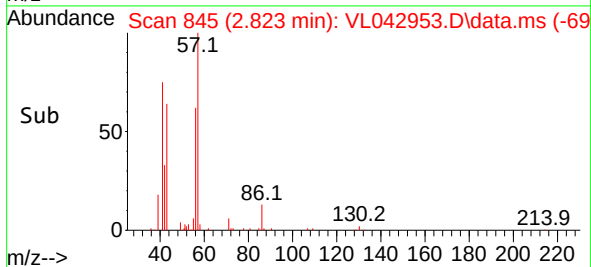
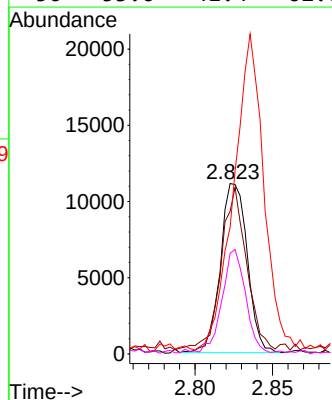
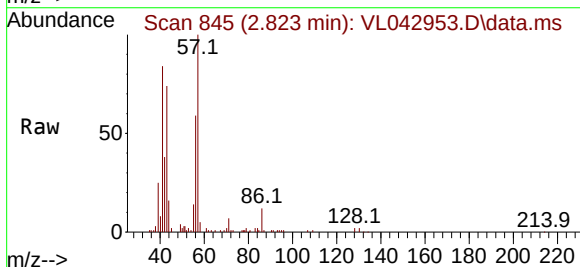
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

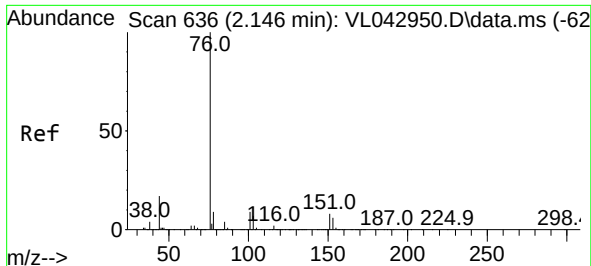
Tgt Ion: 43	Resp: 28162
Ion Ratio	Lower Upper
43 100	
45 12.3	7.7 11.5#
61 9.5	7.1 10.7
70 10.2	6.7 10.1#



#26
Hexane
Concen: 0.540 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 57	Resp: 13406
Ion Ratio	Lower Upper
57 100	
41 92.4	71.7 107.5
43 224.5	180.8 271.2
56 53.6	41.4 62.0

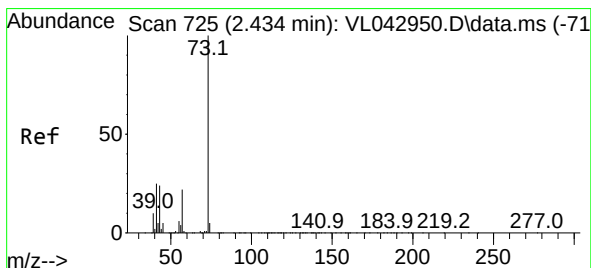
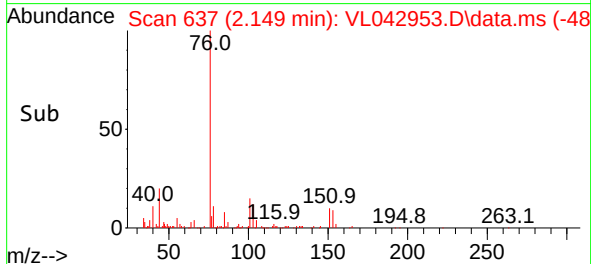
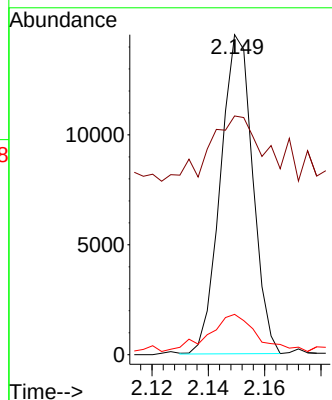
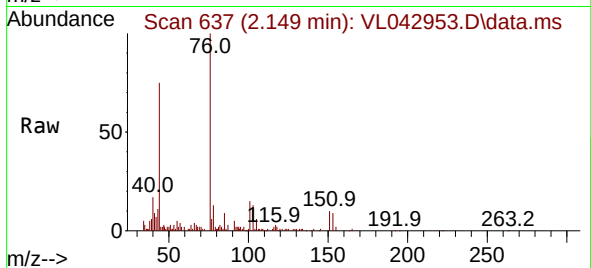




#27
Carbon Disulfide
Concen: 0.518 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

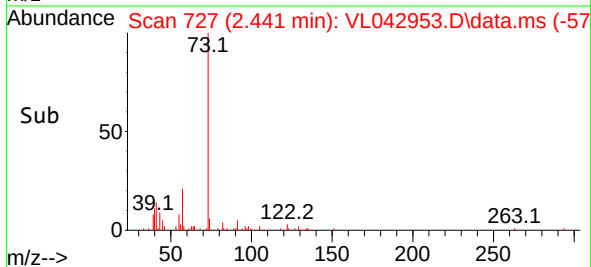
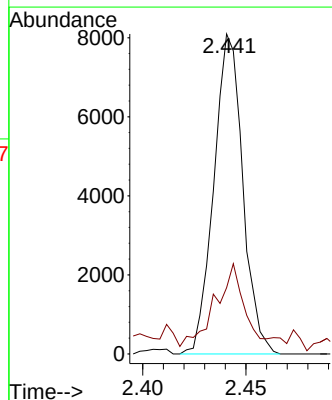
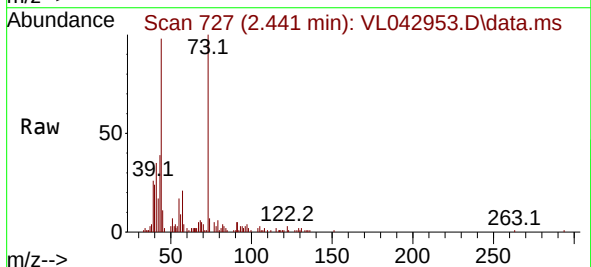
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

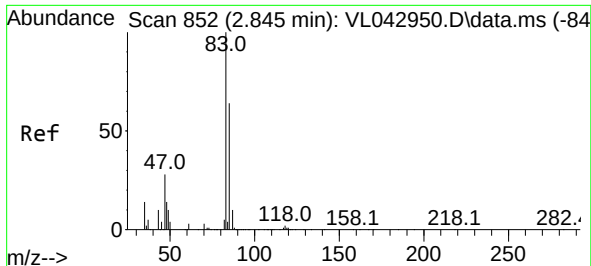
Tgt Ion: 76 Resp: 11535
Ion Ratio Lower Upper
76 100
44 134.4 15.6 23.4#
78 20.6 8.9 13.3#



#28
Methyl tert-Butyl Ether
Concen: 0.611 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.006 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 73 Resp: 7886
Ion Ratio Lower Upper
73 100
57 43.4 20.6 31.0#





#29

Chloroform

Concen: 0.530 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

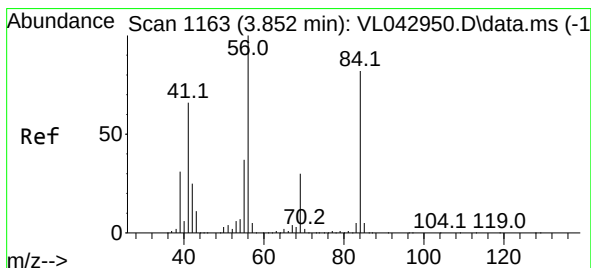
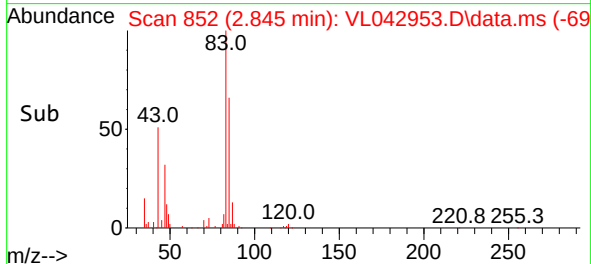
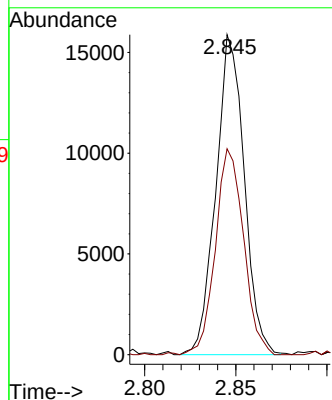
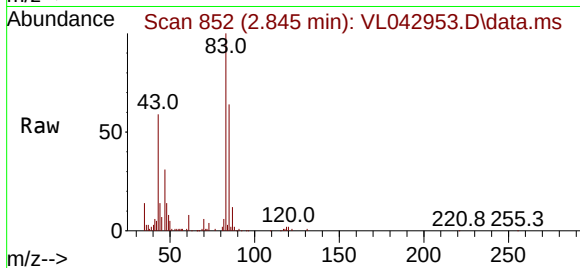
VSTDIC0.5

Tgt Ion: 83 Resp: 17188

Ion Ratio Lower Upper

83 100

85 64.3 51.2 76.8



#30

Cyclohexane

Concen: 0.523 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

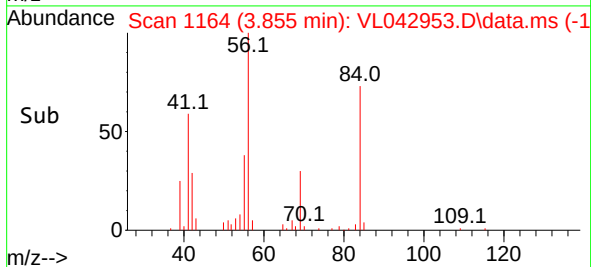
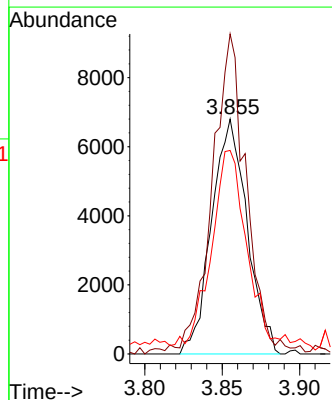
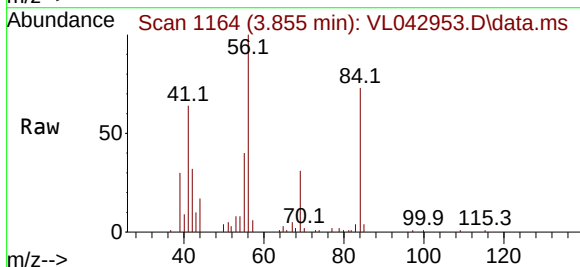
Tgt Ion: 84 Resp: 10856

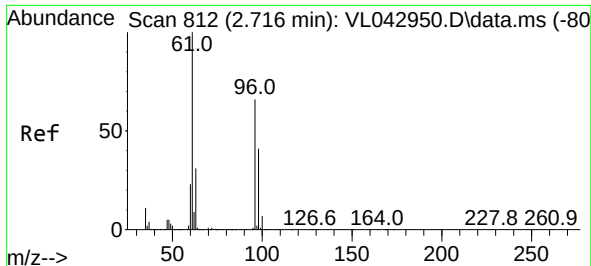
Ion Ratio Lower Upper

84 100

56 132.1 102.2 153.4

41 92.2 65.6 98.4

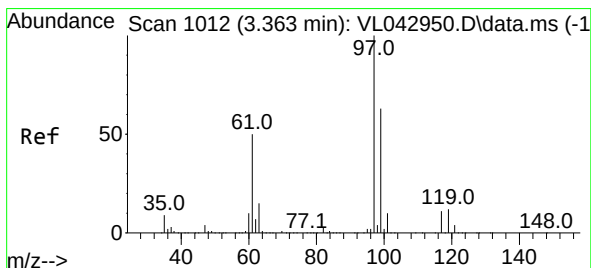
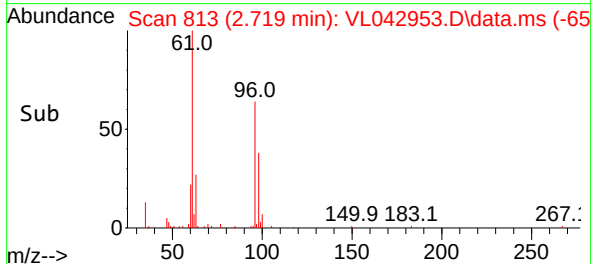
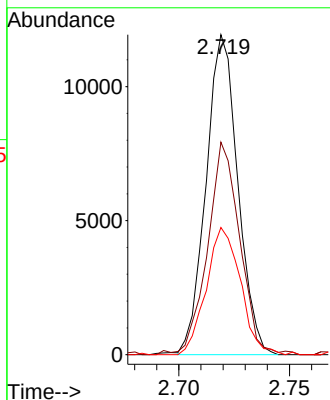
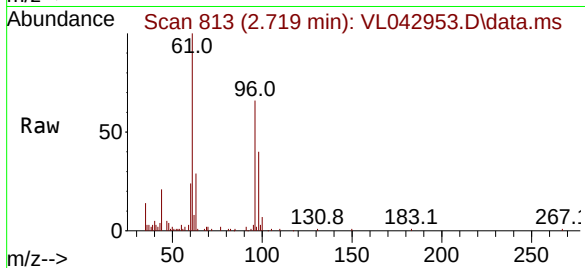




#31
 cis-1,2-Dichloroethene
 Concen: 0.513 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

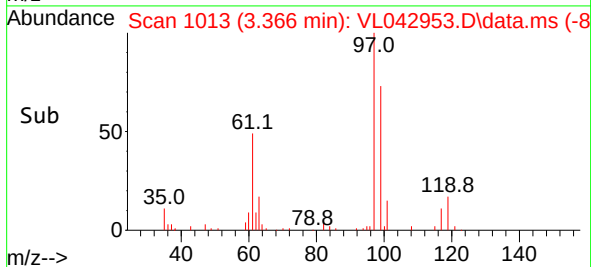
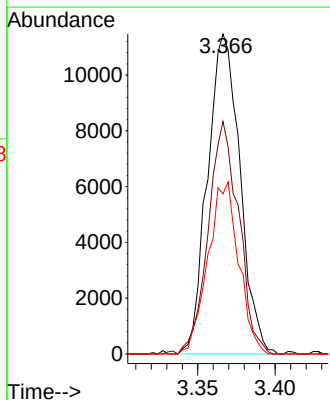
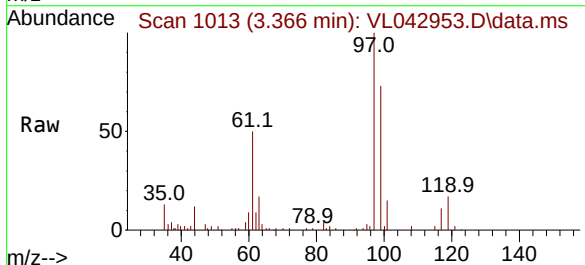
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

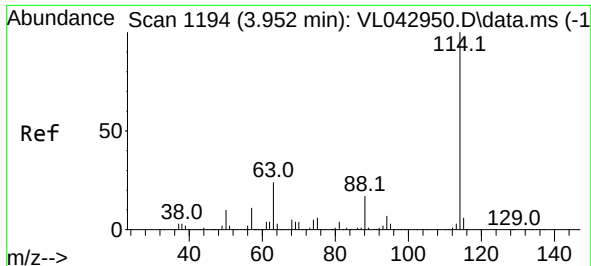
Tgt Ion: 61 Resp: 11939
 Ion Ratio Lower Upper
 61 100
 96 65.7 53.0 79.6
 98 39.7 32.9 49.3



#32
 1,1,1-Trichloroethane
 Concen: 0.474 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.003 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

Tgt Ion: 97 Resp: 16684
 Ion Ratio Lower Upper
 97 100
 99 68.4 51.1 76.7
 61 51.1 39.8 59.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

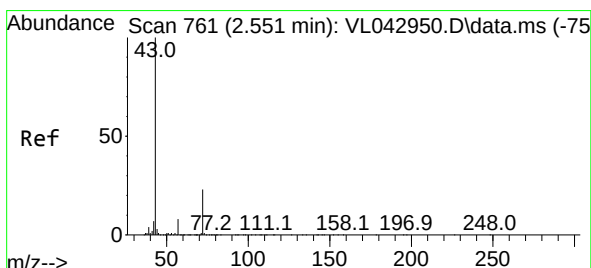
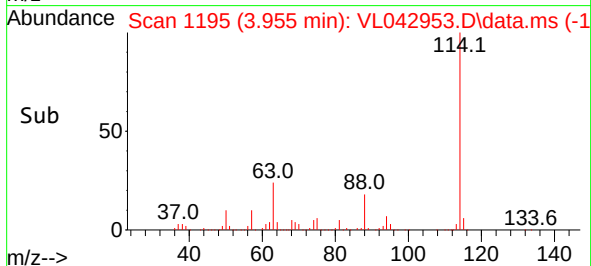
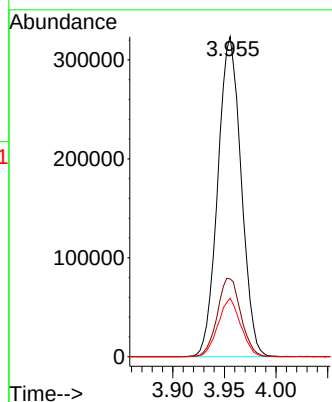
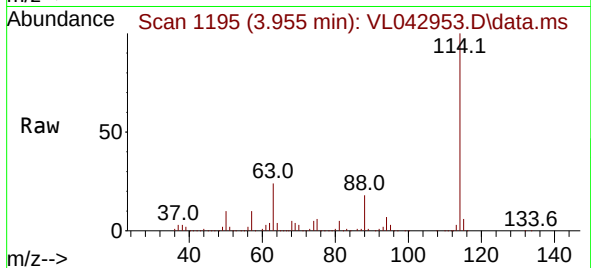
Tgt Ion:114 Resp: 509306

Ion Ratio Lower Upper

114 100

63 24.8 19.4 29.2

88 17.7 14.2 21.2



#34

2-Butanone

Concen: 0.531 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.006 min

Lab File: VL042953.D

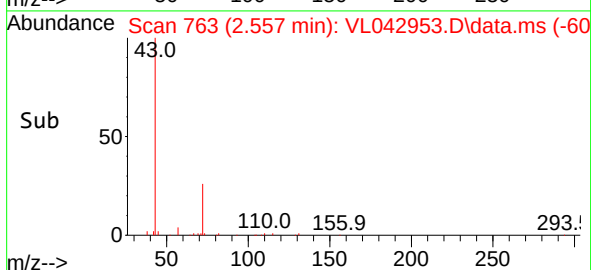
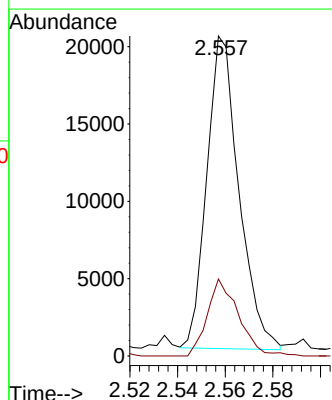
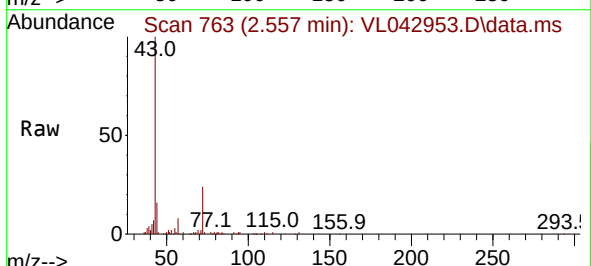
Acq: 22 Sep 2025 11:22

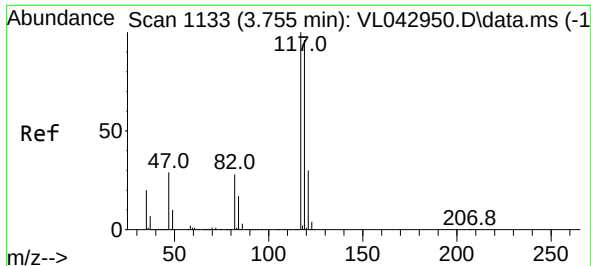
Tgt Ion: 43 Resp: 18948

Ion Ratio Lower Upper

43 100

72 23.9 17.7 26.5

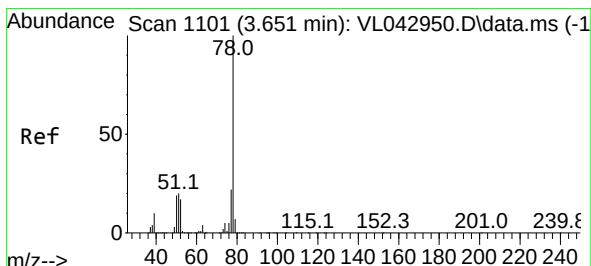
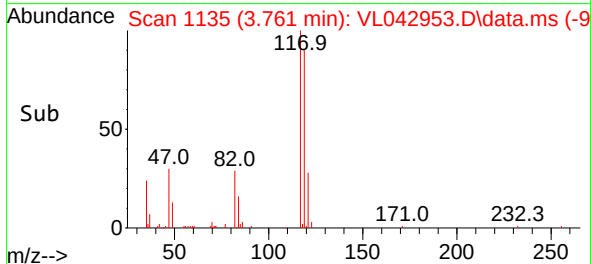
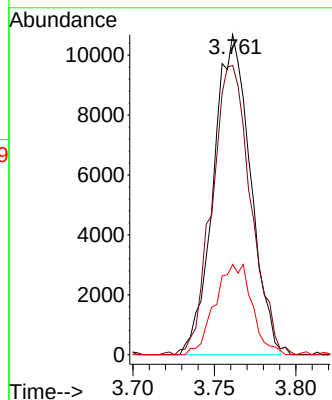
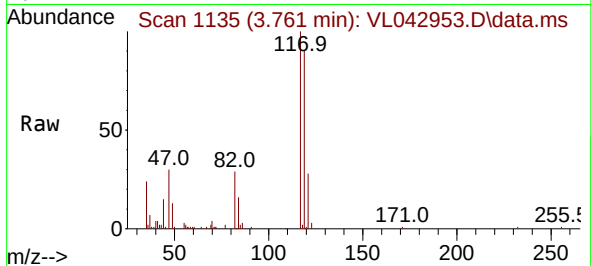




#35
Carbon Tetrachloride
Concen: 0.513 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.006 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

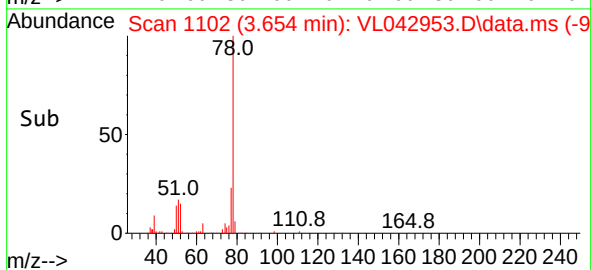
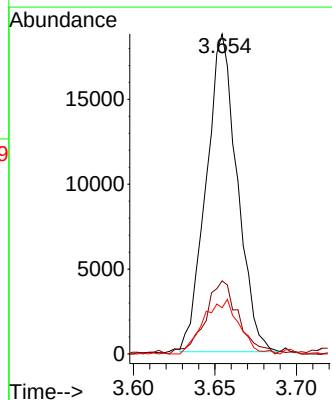
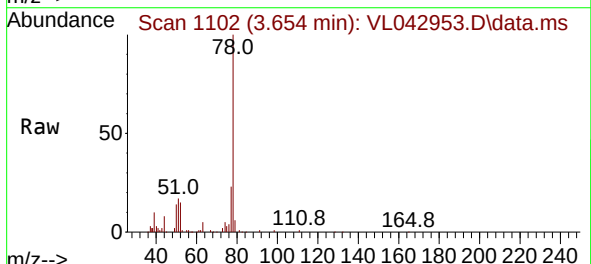
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

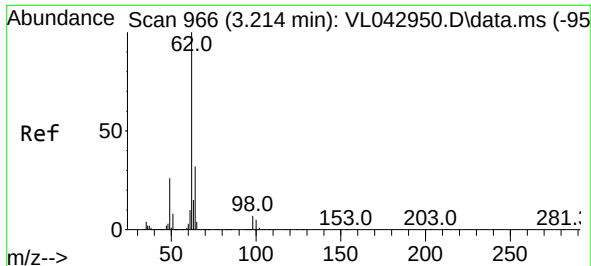
Tgt Ion:117 Resp: 16799
Ion Ratio Lower Upper
117 100
119 88.9 76.9 115.3
121 28.2 23.7 35.5



#36
Benzene
Concen: 0.519 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 78 Resp: 24807
Ion Ratio Lower Upper
78 100
77 21.4 17.8 26.6
50 14.5 15.0 22.4





#37

1,2-Dichloroethane

Concen: 0.508 ppbv

RT: 3.217 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_1

ClientSampleId :

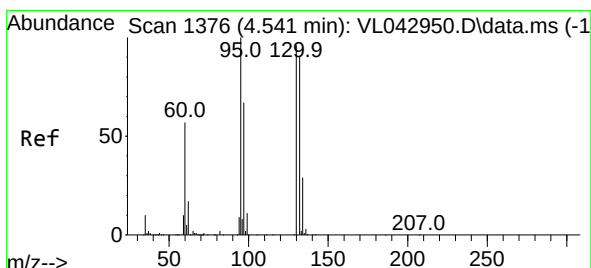
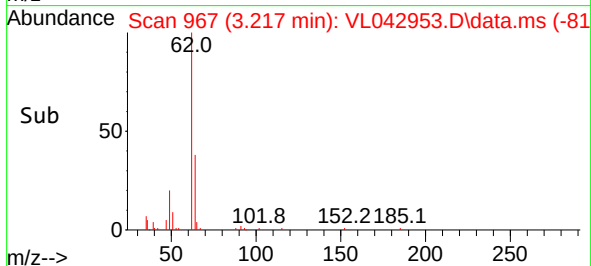
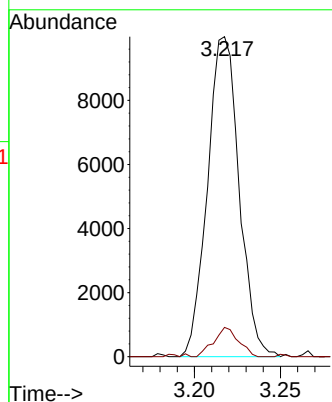
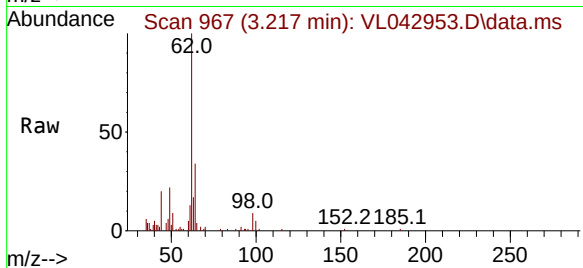
VSTDIC0.5

Tgt Ion: 62 Resp: 12788

Ion Ratio Lower Upper

62 100

98 7.4 5.9 8.9



#38

Trichloroethene

Concen: 0.515 ppbv

RT: 4.544 min Scan# 1377

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Tgt Ion:130 Resp: 12243

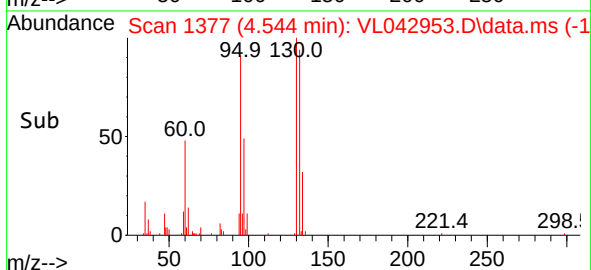
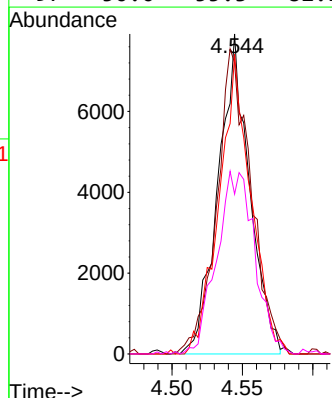
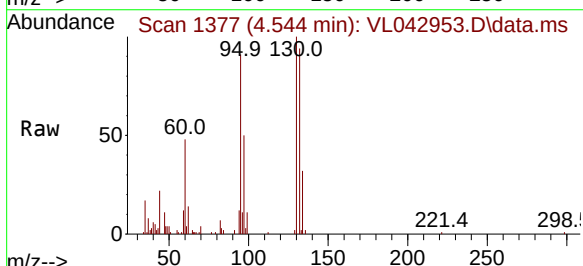
Ion Ratio Lower Upper

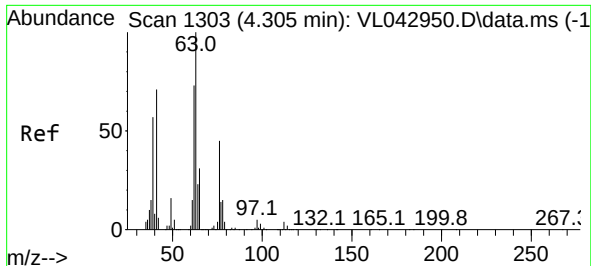
130 100

95 89.6 83.0 124.4

132 93.6 74.6 112.0

97 50.0 55.3 82.9#





#39

1,2-Dichloropropane

Concen: 0.502 ppbv

RT: 4.315 min Scan# 1306

Delta R.T. 0.010 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.5

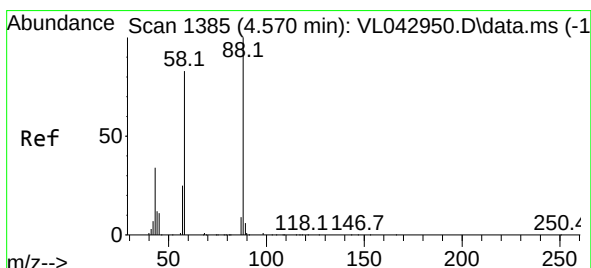
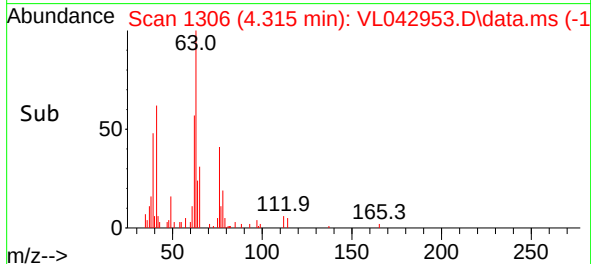
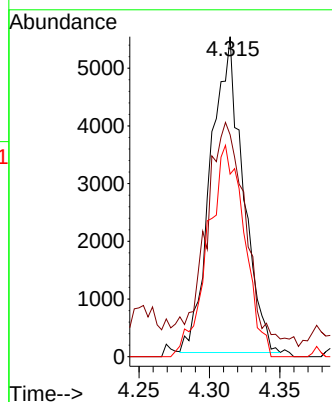
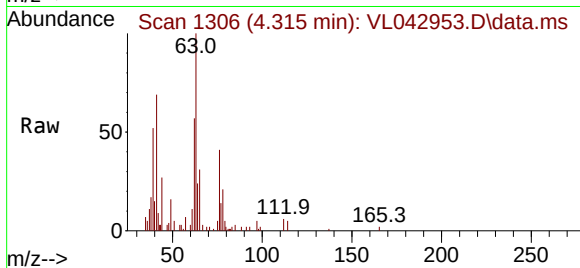
Tgt Ion: 63 Resp: 8772

Ion Ratio Lower Upper

63 100

41 64.7 57.5 86.3

62 56.5 58.5 87.7#



#40

1,4-Dioxane

Concen: 0.202 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.023 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Tgt Ion: 88 Resp: 1641

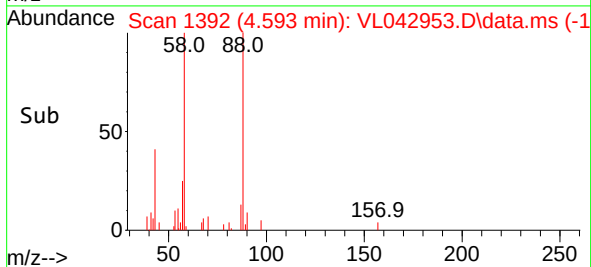
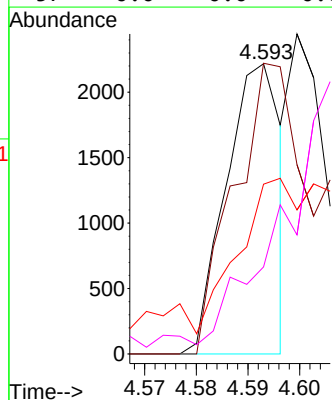
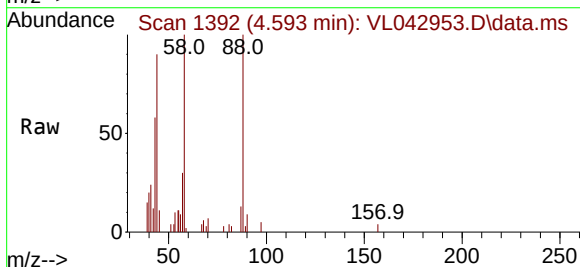
Ion Ratio Lower Upper

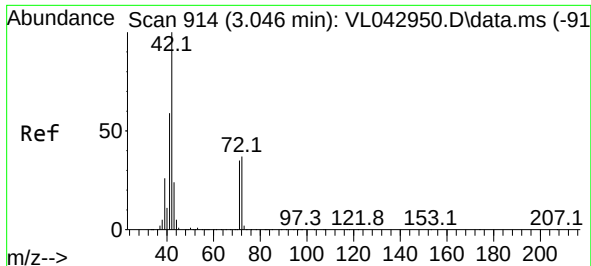
88 100

58 332.1 59.7 89.5#

43 0.0 28.9 43.3#

57 0.0 0.0 0.0

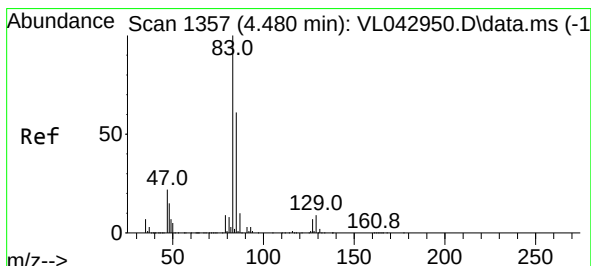
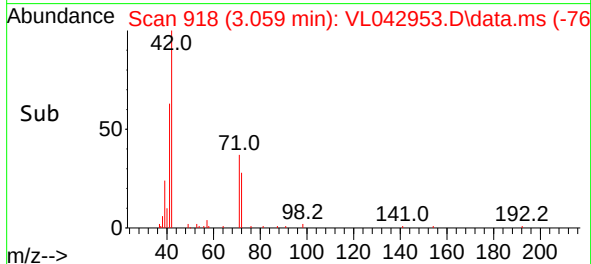
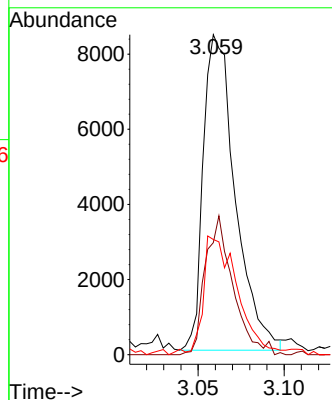
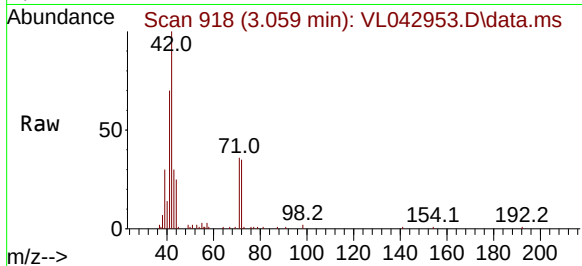




#41
Tetrahydrofuran
Concen: 0.530 ppbv
RT: 3.059 min Scan# 914
Delta R.T. 0.013 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

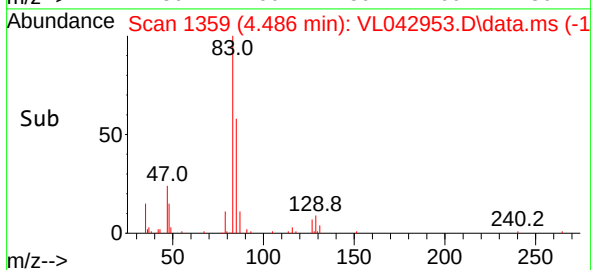
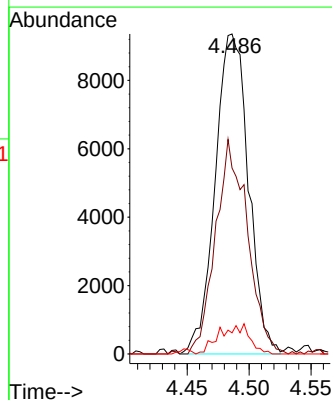
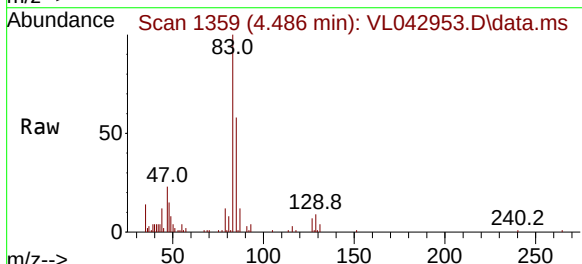
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

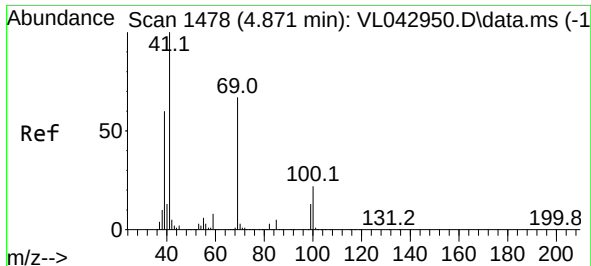
Tgt Ion:	42	Resp:	10871
Ion	Ratio	Lower	Upper
42	100		
72	38.4	30.0	45.0
71	41.6	28.8	43.2



#42
Bromodichloromethane
Concen: 0.501 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.006 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion:	83	Resp:	17552
Ion	Ratio	Lower	Upper
83	100		
85	58.1	49.0	73.6
127	6.6	5.3	7.9

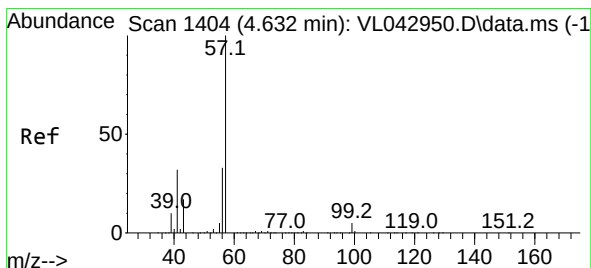
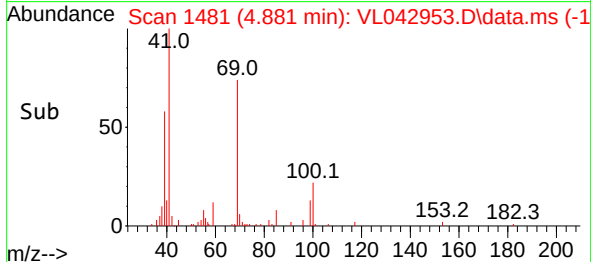
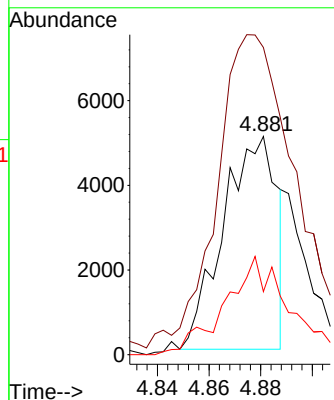
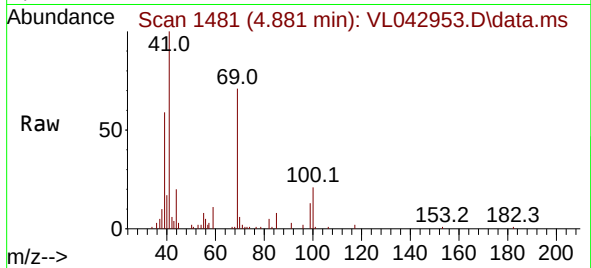




#43
Methyl Methacrylate
Concen: 0.374 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. 0.010 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

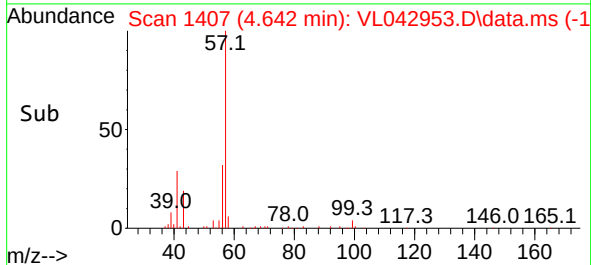
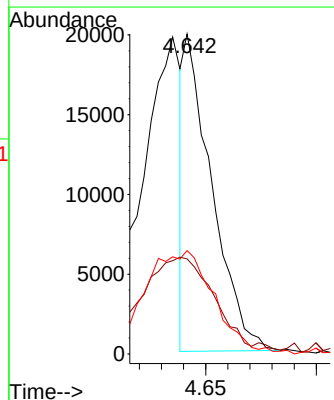
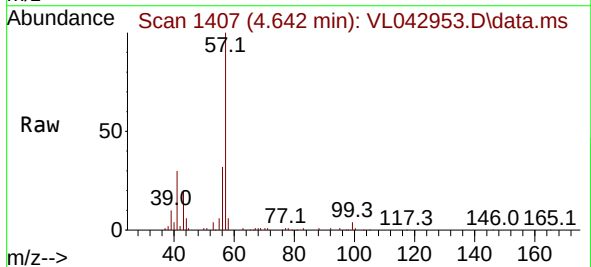
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

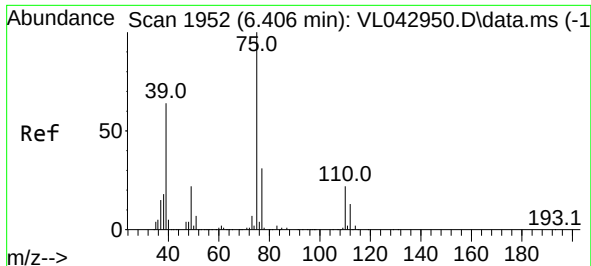
Tgt Ion: 69 Resp: 7252
Ion Ratio Lower Upper
69 100
41 216.4 124.5 186.7#
100 54.6 29.0 43.6#



#44
2,2,4-Trimethylpentane
Concen: 0.210 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.010 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 57 Resp: 17345
Ion Ratio Lower Upper
57 100
41 79.9 25.5 38.3#
56 84.6 25.8 38.8#





#45

t-1,3-Dichloropropene

Concen: 0.276 ppbv

RT: 6.409 min Scan# 1952

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_1

ClientSampleId :

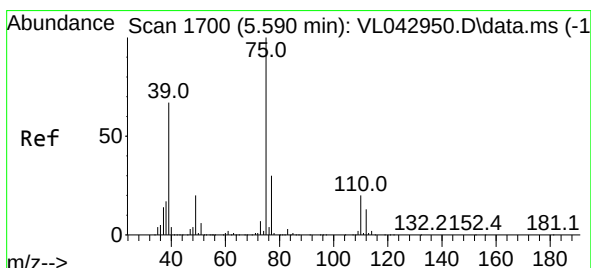
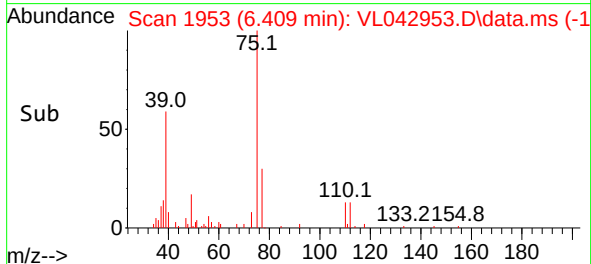
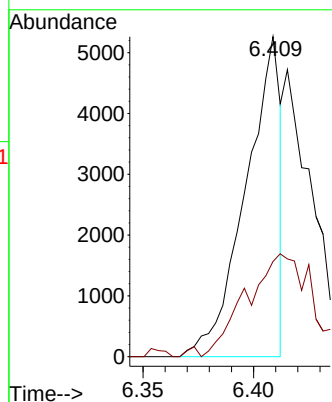
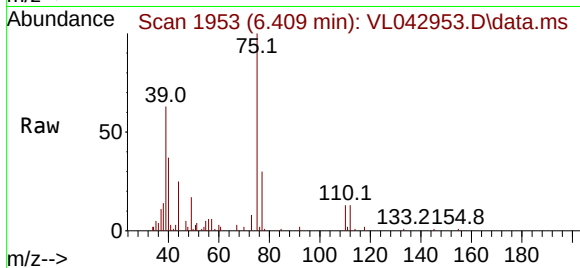
VSTDIC0.5

Tgt Ion: 75 Resp: 5766

Ion Ratio Lower Upper

75 100

77 29.7 25.0 37.4



#46

cis-1,3-Dichloropropene

Concen: 0.379 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

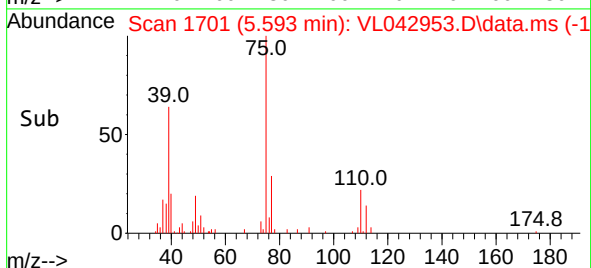
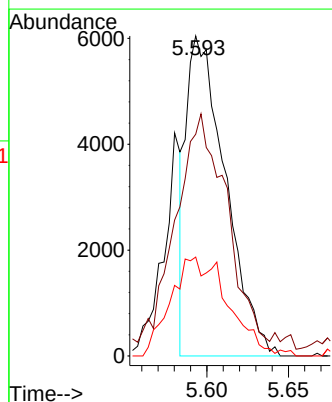
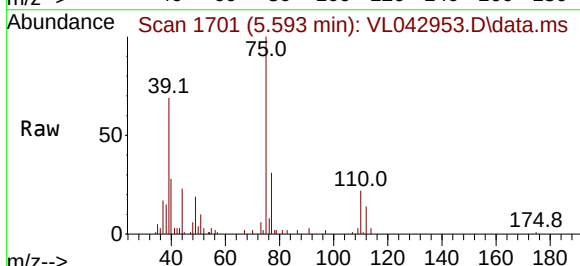
Tgt Ion: 75 Resp: 10078

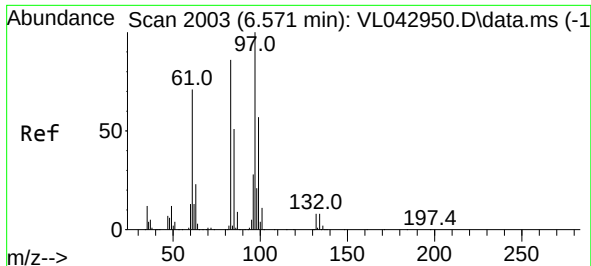
Ion Ratio Lower Upper

75 100

39 64.8 53.8 80.6

77 29.0 23.6 35.4

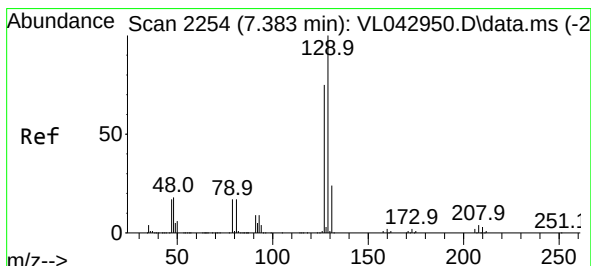
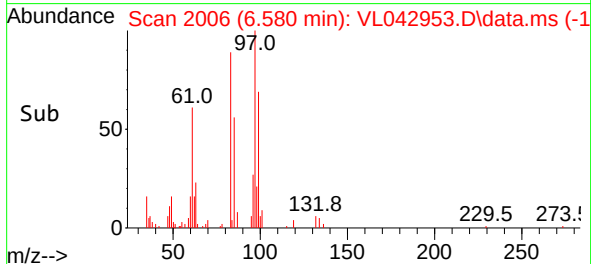
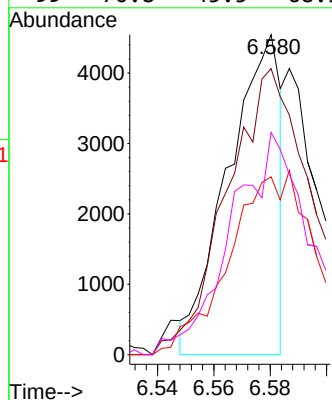
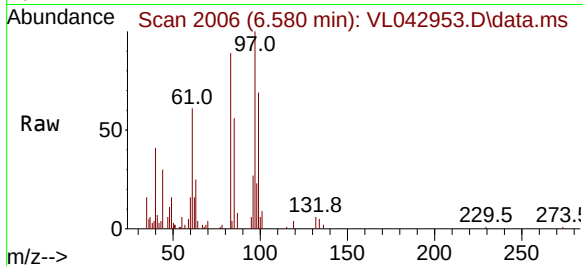




#47
1,1,2-Trichloroethane
Concen: 0.318 ppbv
RT: 6.580 min Scan# 2006
Delta R.T. 0.010 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

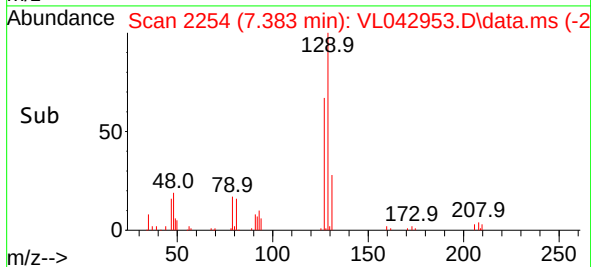
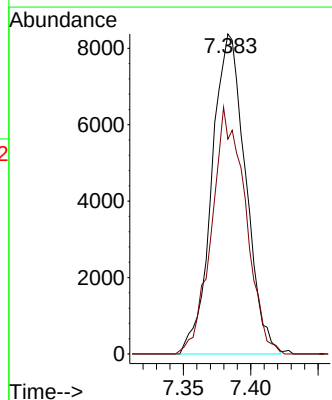
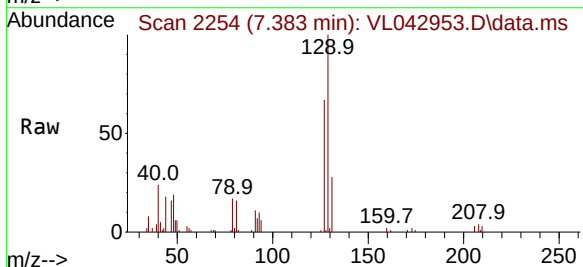
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

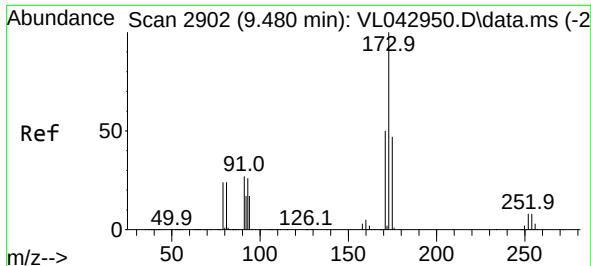
Tgt Ion: 97 Resp: 5868
Ion Ratio Lower Upper
97 100
83 91.6 68.7 103.1
85 52.5 40.6 60.8
99 70.8 45.5 68.3#



#48
Dibromochloromethane
Concen: 0.493 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. -0.000 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 129 Resp: 14563
Ion Ratio Lower Upper
129 100
127 77.5 39.1 117.2

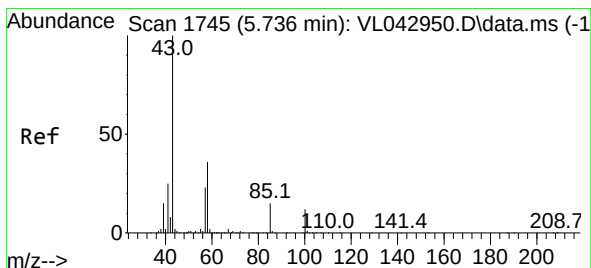
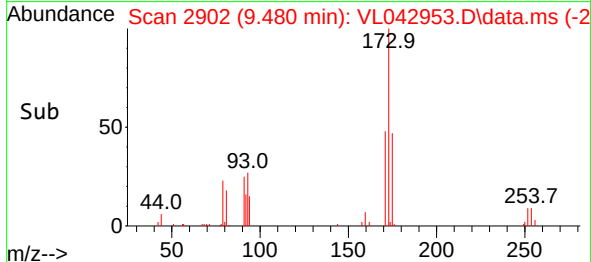
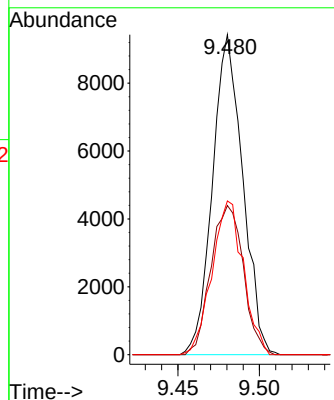
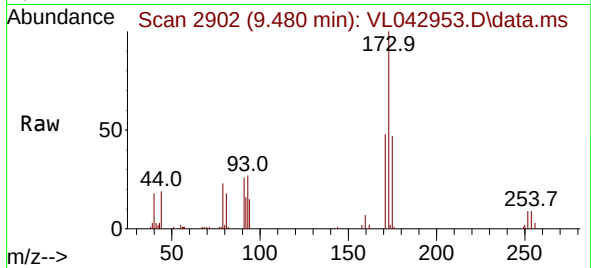




#49
Bromoform
Concen: 0.473 ppbv
RT: 9.480 min Scan# 2902
Delta R.T. -0.000 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

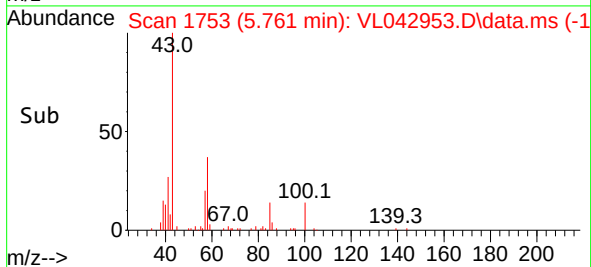
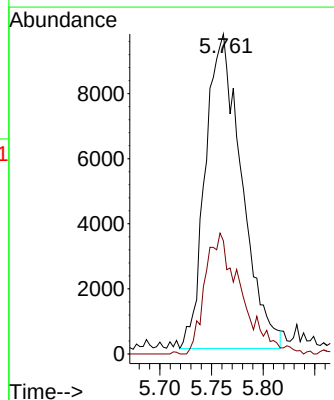
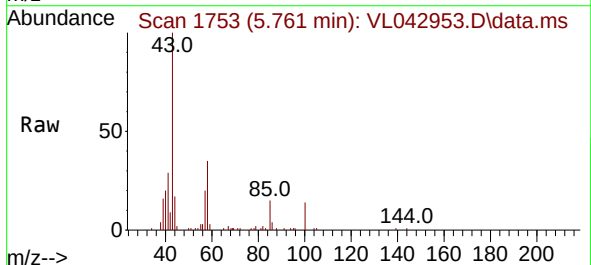
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

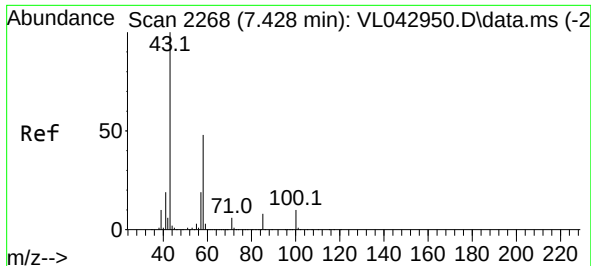
Tgt Ion:173 Resp: 12136
Ion Ratio Lower Upper
173 100
175 50.2 37.9 56.9
171 49.8 41.1 61.7



#50
4-Methyl-2-Pentanone
Concen: 0.493 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.026 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 43 Resp: 23639
Ion Ratio Lower Upper
43 100
58 38.5 28.4 42.6

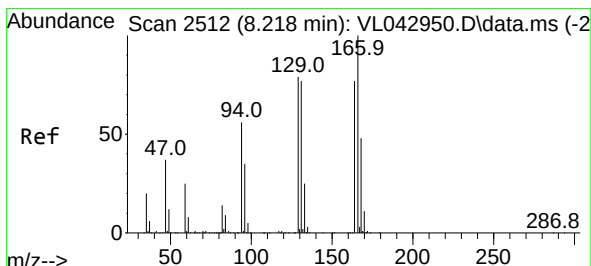
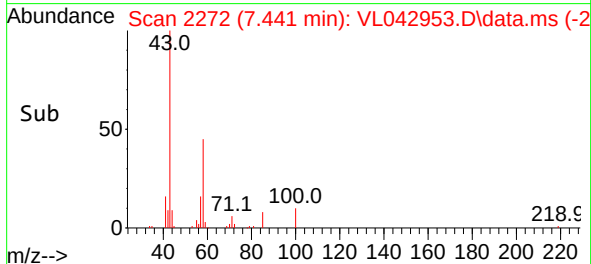
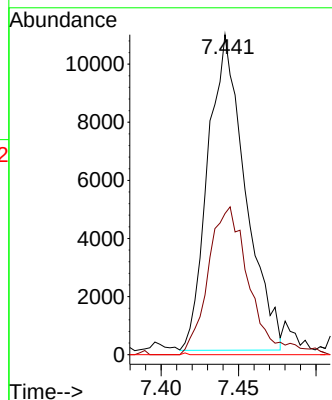
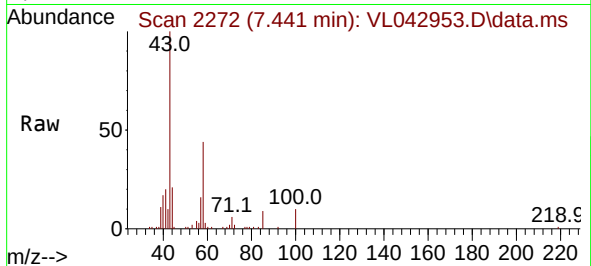




#51
2-Hexanone
Concen: 0.480 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

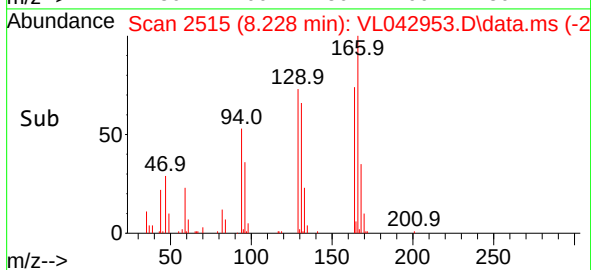
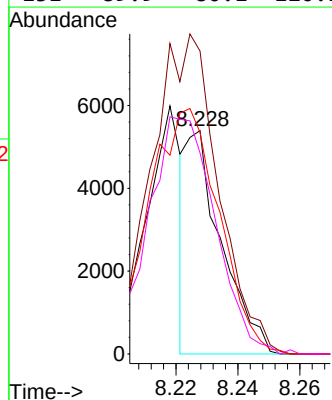
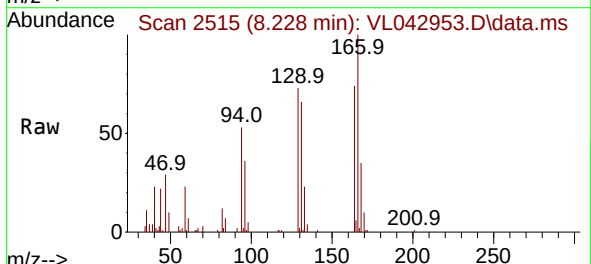
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

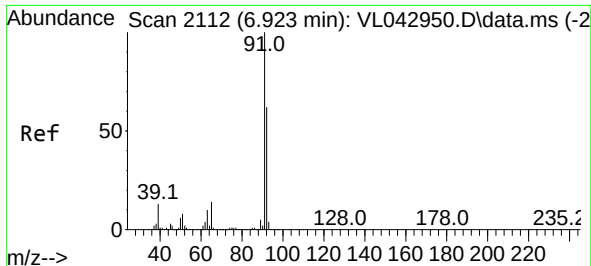
Tgt Ion: 43 Resp: 18322
Ion Ratio Lower Upper
43 100
58 51.8 39.7 59.5
98 0.2 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.228 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.010 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 164 Resp: 4214
Ion Ratio Lower Upper
164 100
166 134.4 103.5 155.3
129 97.6 82.2 123.4
131 89.9 80.1 120.1

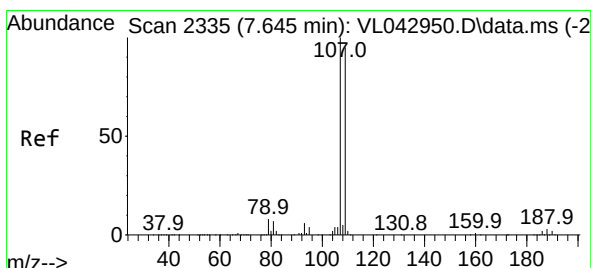
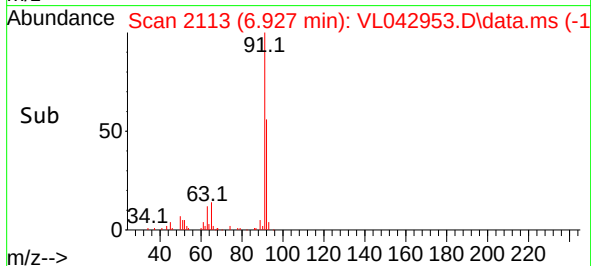
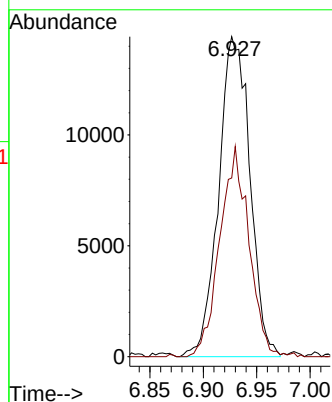
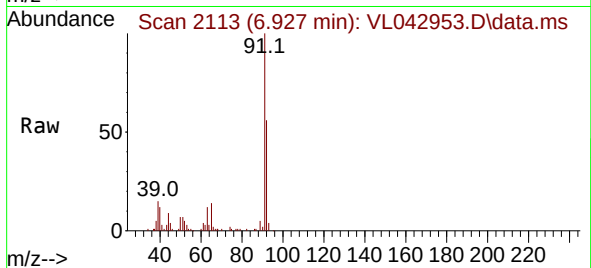




#53
Toluene
Concen: 0.519 ppbv
RT: 6.927 min Scan# 2112
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

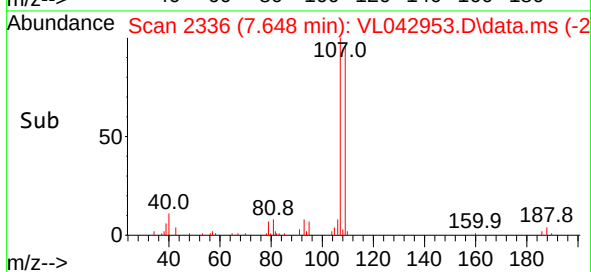
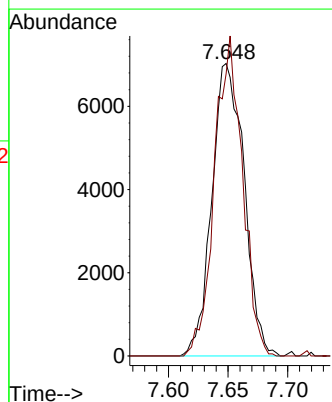
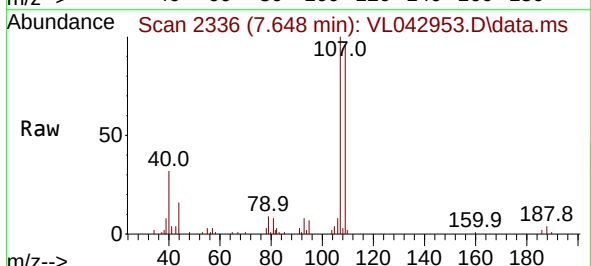
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

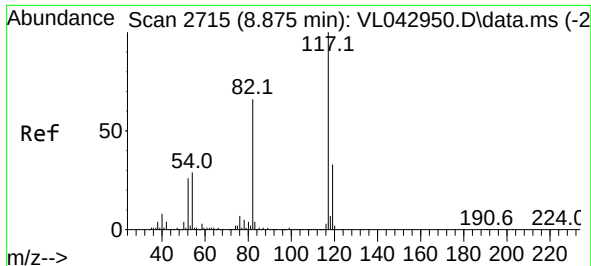
Tgt Ion: 91 Resp: 29404
Ion Ratio Lower Upper
91 100
92 61.1 48.2 72.2



#54
1,2-Dibromoethane
Concen: 0.510 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 107 Resp: 13233
Ion Ratio Lower Upper
107 100
109 96.5 75.8 113.8

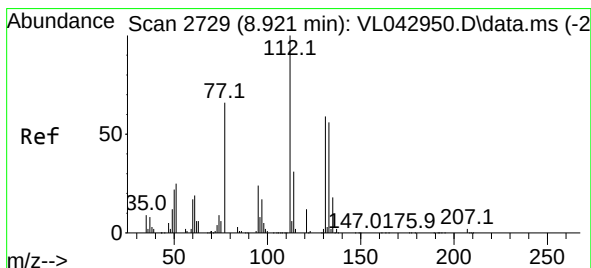
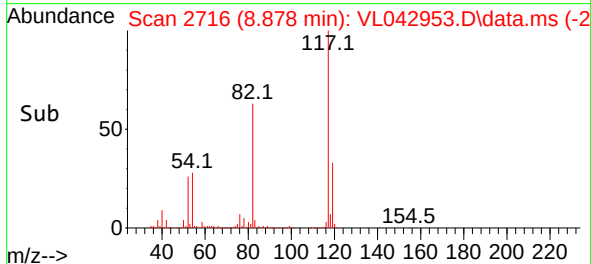
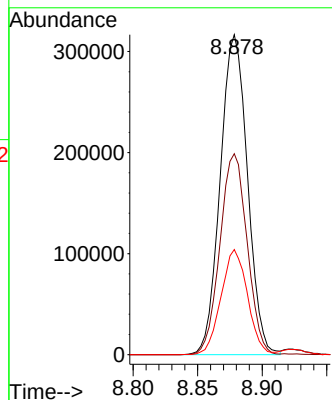
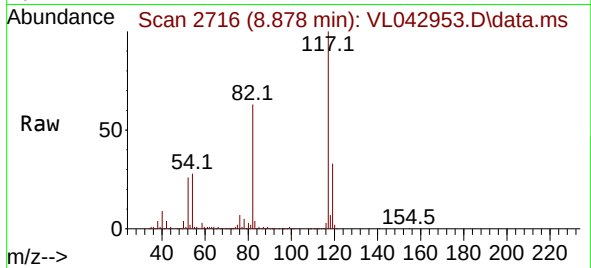




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

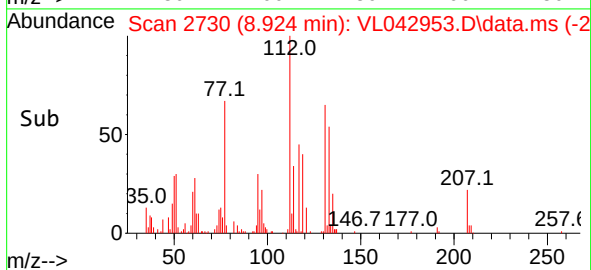
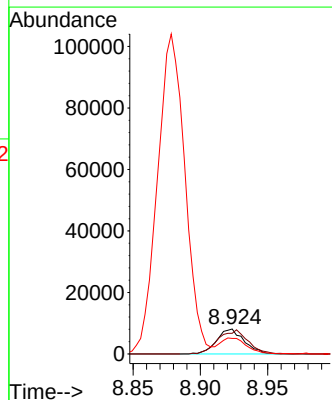
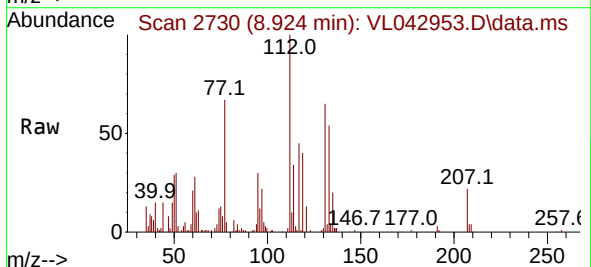
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

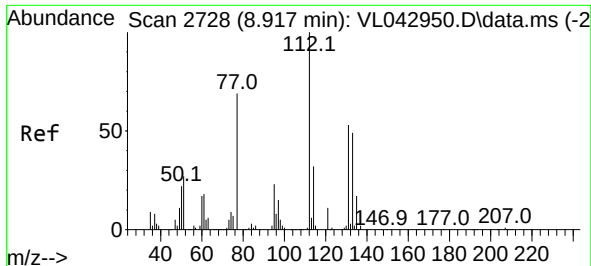
Tgt Ion:117 Resp: 464091
Ion Ratio Lower Upper
117 100
82 63.0 52.8 79.2
119 33.5 26.5 39.7



#56
1,1,1,2-Tetrachloroethane
Concen: 0.519 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion:131 Resp: 11535
Ion Ratio Lower Upper
131 100
133 105.4 76.6 114.8
119 1350.8 49.9 74.9#

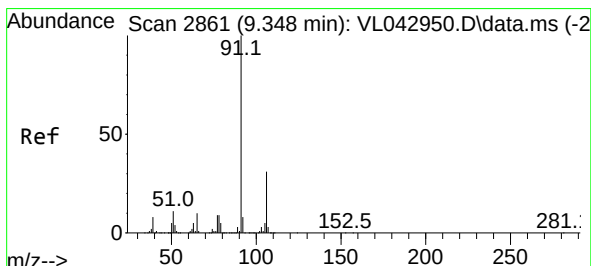
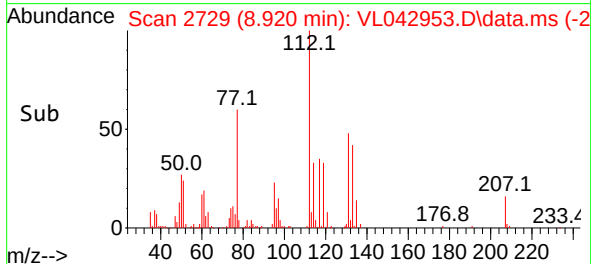
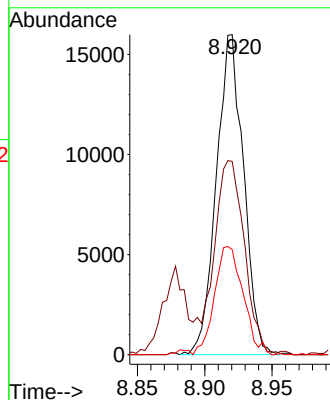
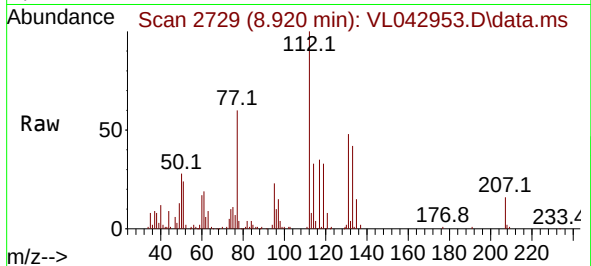




#57
Chlorobenzene
Concen: 0.530 ppbv
RT: 8.920 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

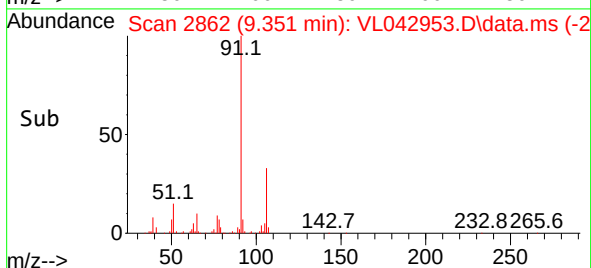
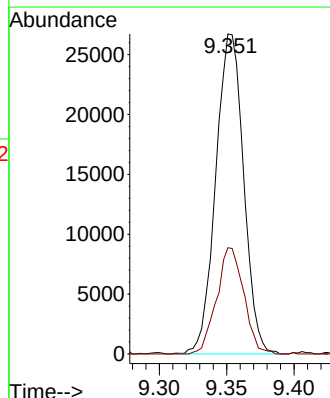
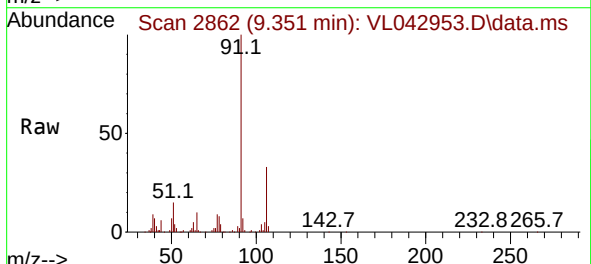
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

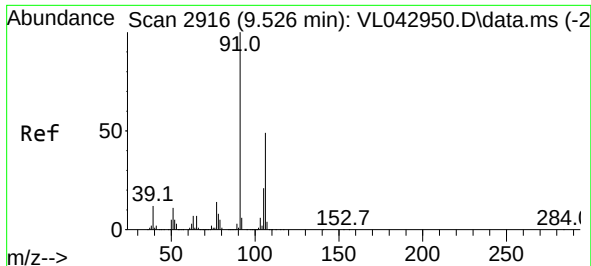
Tgt Ion: 112 Resp: 22463
Ion Ratio Lower Upper
112 100
77 59.5 55.7 83.5
114 32.5 28.6 35.0



#58
Ethyl Benzene
Concen: 0.505 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 91 Resp: 38459
Ion Ratio Lower Upper
91 100
106 33.2 24.6 37.0





#59

m/p-Xylene

Concen: 0.310 ppbv

RT: 9.526 min Scan# 2916

Delta R.T. -0.000 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

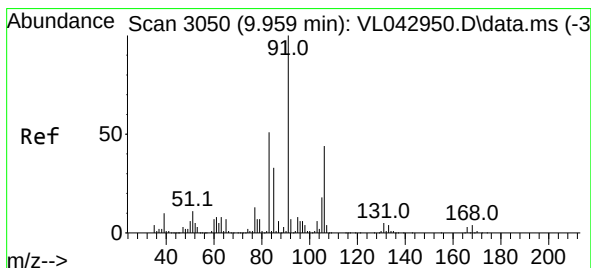
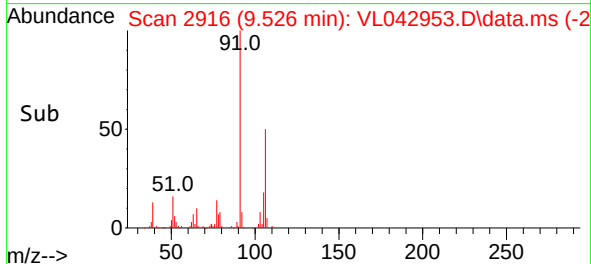
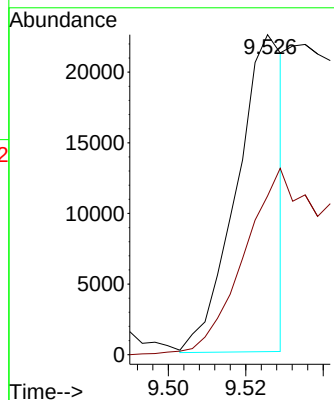
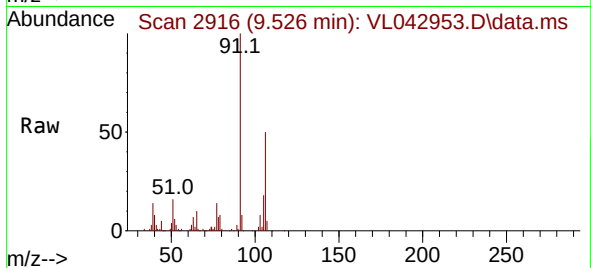
VSTDIC0.5

Tgt Ion: 91 Resp: 18667

Ion Ratio Lower Upper

91 100

106 163.2 0.0 0.0#



#60

o-Xylene

Concen: 0.516 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042953.D

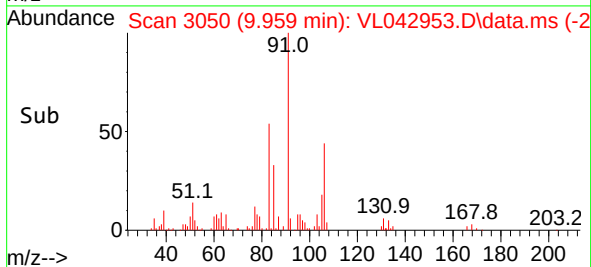
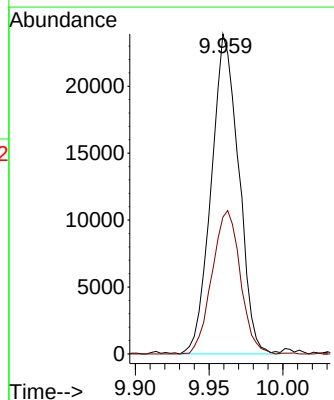
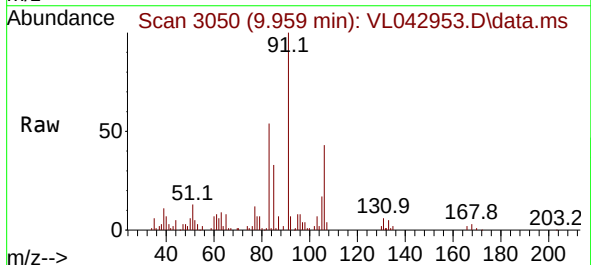
Acq: 22 Sep 2025 11:22

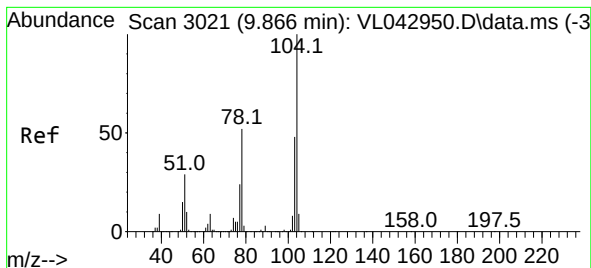
Tgt Ion: 91 Resp: 30976

Ion Ratio Lower Upper

91 100

106 46.2 22.4 67.0





#61

Styrene

Concen: 0.495 ppbv

RT: 9.865 min Scan# 3021

Delta R.T. -0.000 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

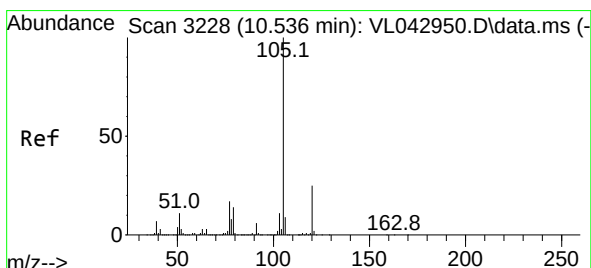
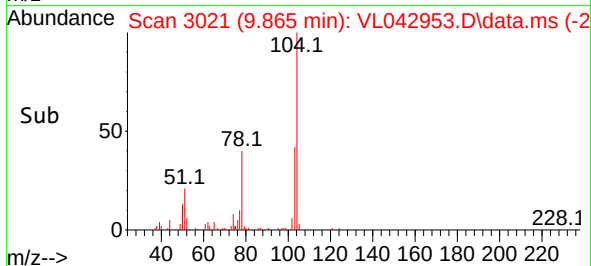
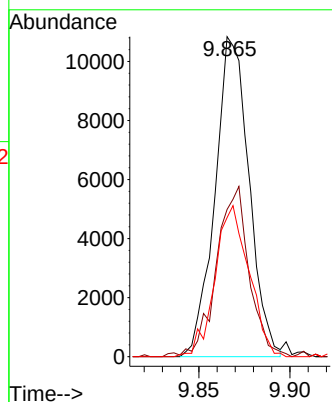
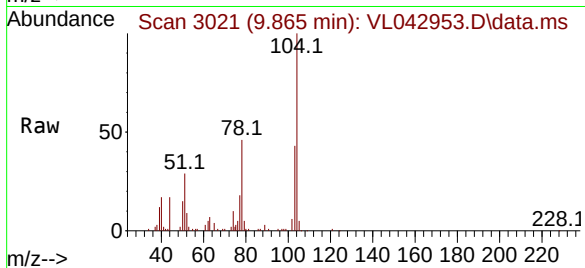
Tgt Ion:104 Resp: 14048

Ion Ratio Lower Upper

104 100

78 51.8 39.9 59.9

103 47.6 36.9 55.3



#62

Isopropylbenzene

Concen: 0.521 ppbv

RT: 10.535 min Scan# 3228

Delta R.T. -0.000 min

Lab File: VL042953.D

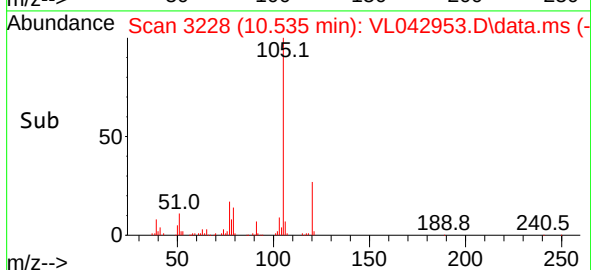
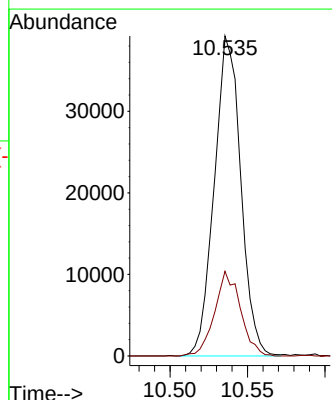
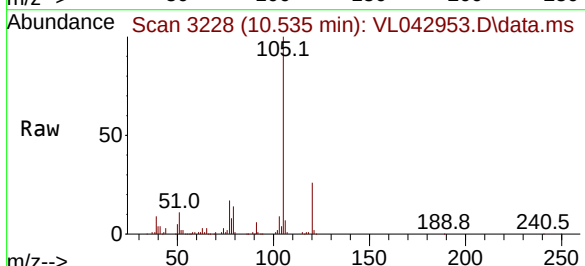
Acq: 22 Sep 2025 11:22

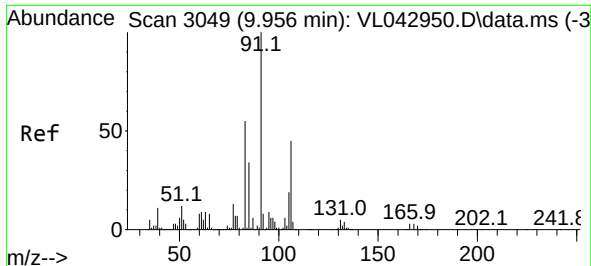
Tgt Ion:105 Resp: 46640

Ion Ratio Lower Upper

105 100

120 25.9 20.6 30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.506 ppbv

RT: 9.959 min Scan# 3049

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

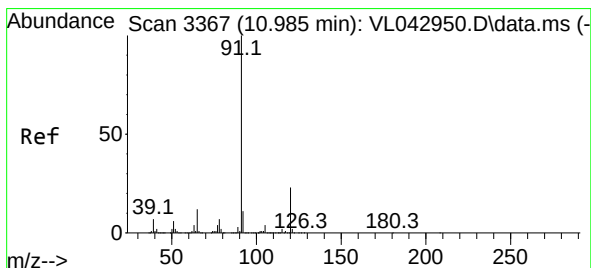
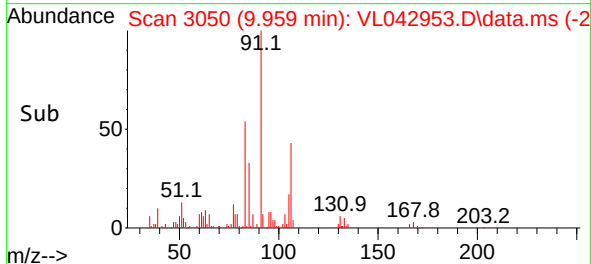
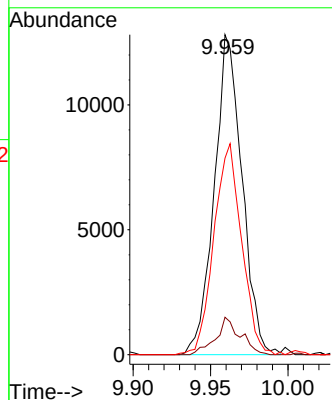
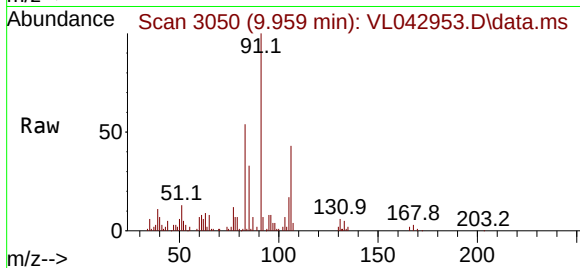
Tgt Ion: 83 Resp: 15974

Ion Ratio Lower Upper

83 100

131 10.4 4.8 14.4

85 66.6 32.2 96.6



#64

n-propylbenzene

Concen: 0.527 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.000 min

Lab File: VL042953.D

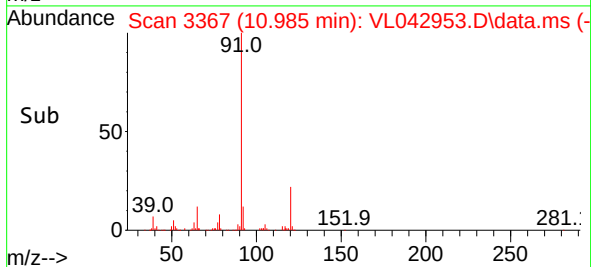
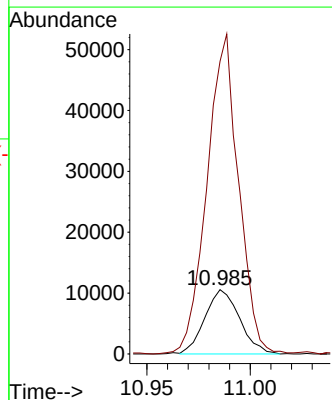
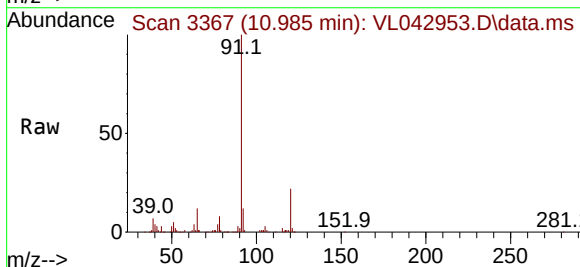
Acq: 22 Sep 2025 11:22

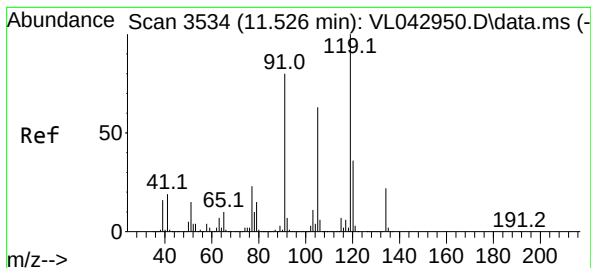
Tgt Ion:120 Resp: 12333

Ion Ratio Lower Upper

120 100

91 456.5 364.9 547.3





#65

tert-Butylbenzene

Concen: 0.535 ppbv

RT: 11.529 min Scan# 3534

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

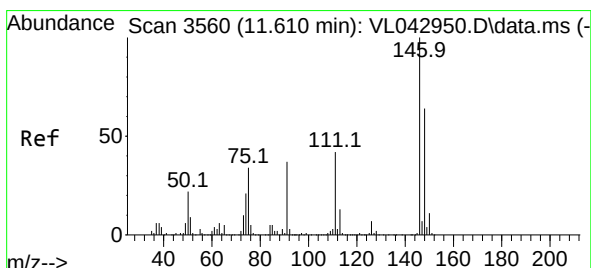
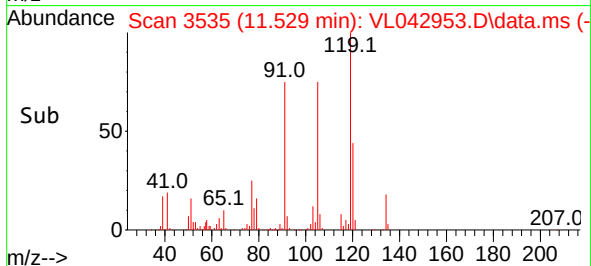
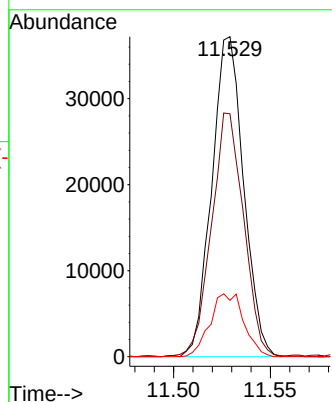
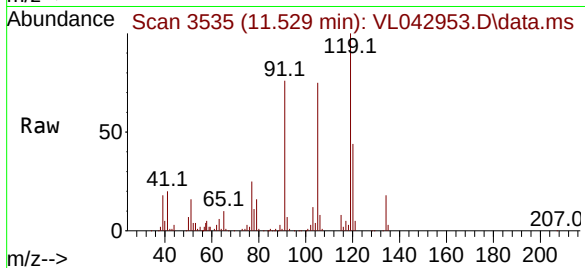
Tgt Ion:119 Resp: 42595

Ion Ratio Lower Upper

119 100

91 77.7 63.1 94.7

134 20.9 17.0 25.6



#66

Benzyl Chloride

Concen: 0.362 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

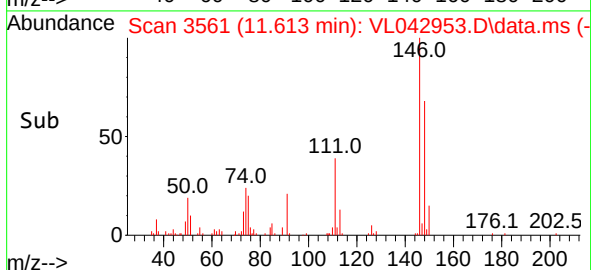
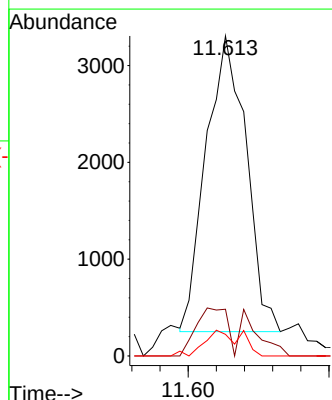
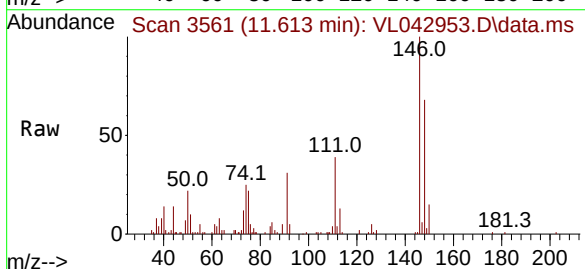
Tgt Ion: 91 Resp: 3022

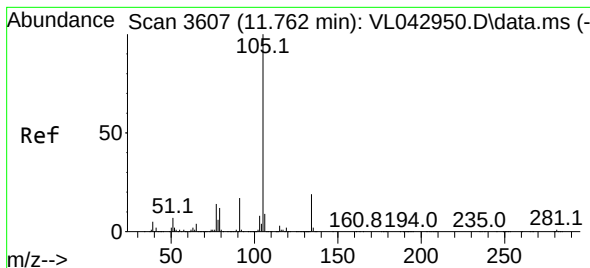
Ion Ratio Lower Upper

91 100

126 20.0 14.6 21.8

128 8.0 5.0 7.4#





#67

sec-Butylbenzene

Concen: 0.525 ppbv

RT: 11.765 min Scan# 3178

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_1

ClientSampleId :

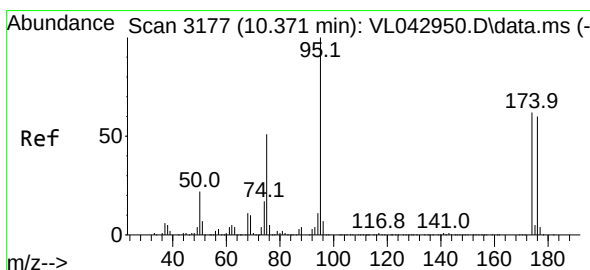
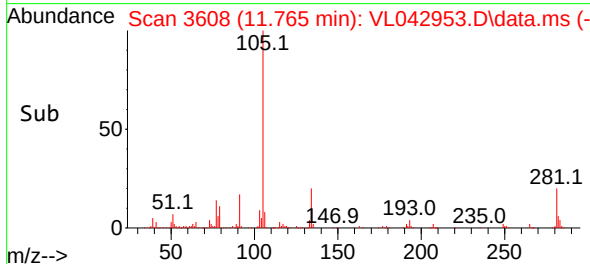
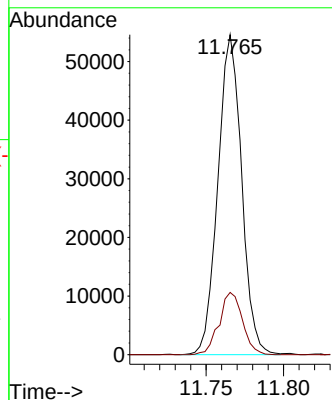
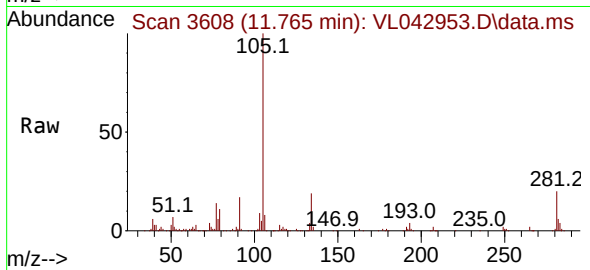
VSTDIC0.5

Tgt Ion:105 Resp: 58190

Ion Ratio Lower Upper

105 100

134 19.1 15.7 23.5



#68

1-Bromo-4-Fluorobenzene

Concen: 10.027 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

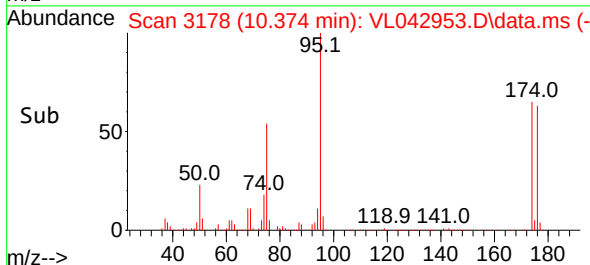
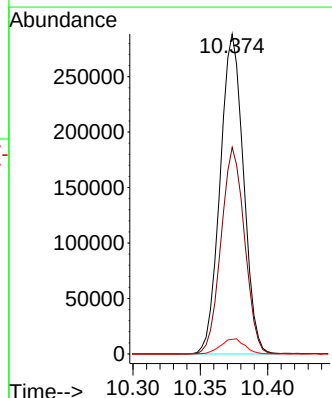
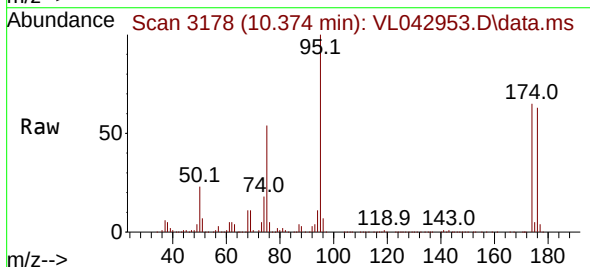
Tgt Ion: 95 Resp: 347374

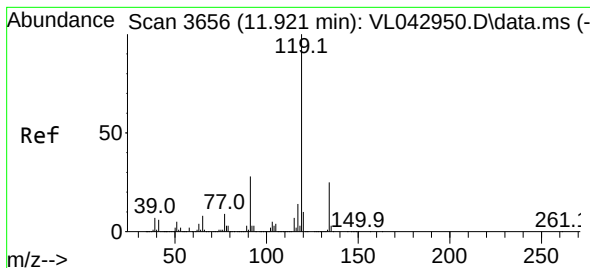
Ion Ratio Lower Upper

95 100

174 65.0 51.4 77.2

175 4.9 4.0 6.0





#69

p-Isopropyltoluene

Concen: 0.521 ppbv

RT: 11.924 min Scan# 3656

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

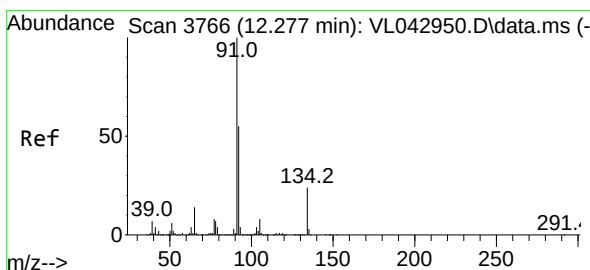
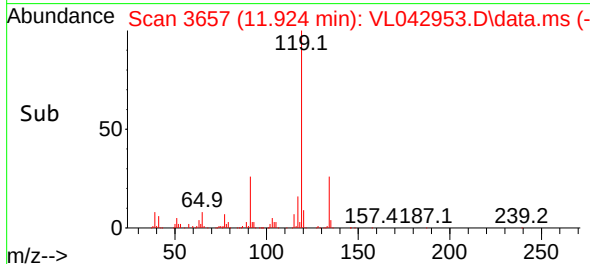
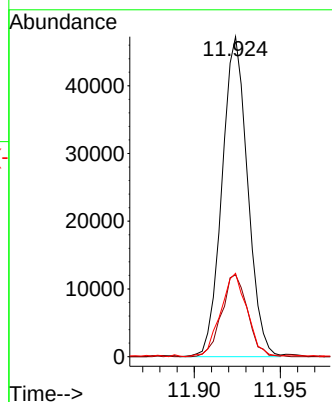
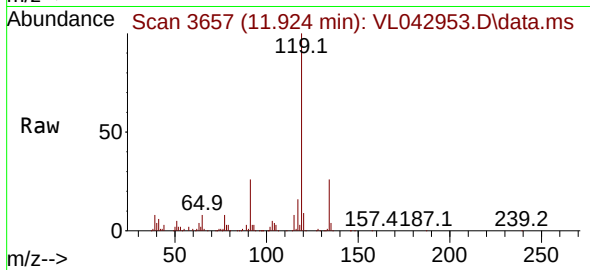
Tgt Ion:119 Resp: 48855

Ion Ratio Lower Upper

119 100

134 26.0 21.0 31.4

91 28.2 22.3 33.5



#70

n-Butylbenzene

Concen: 0.489 ppbv

RT: 12.280 min Scan# 3767

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

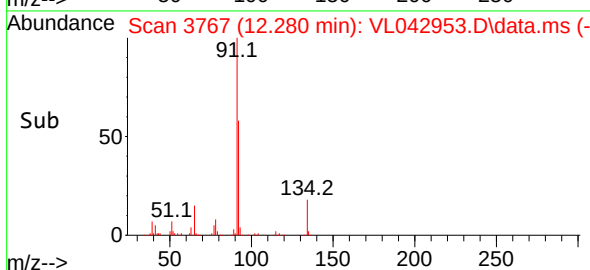
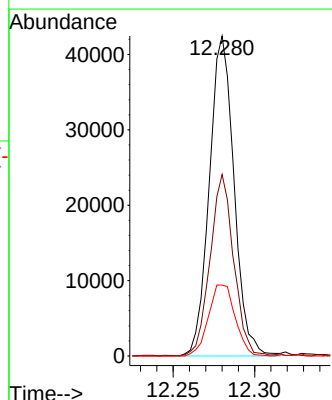
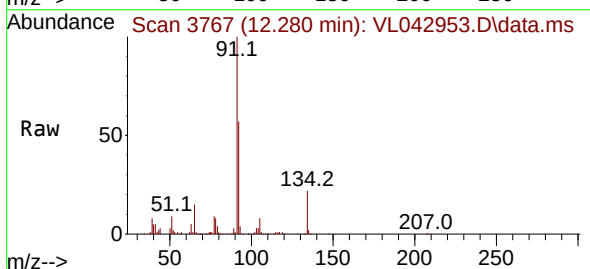
Tgt Ion: 91 Resp: 44764

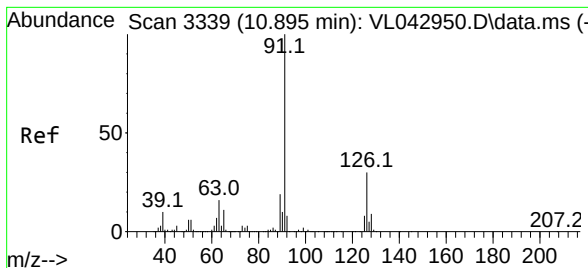
Ion Ratio Lower Upper

91 100

92 54.7 44.0 66.0

134 24.4 19.4 29.2

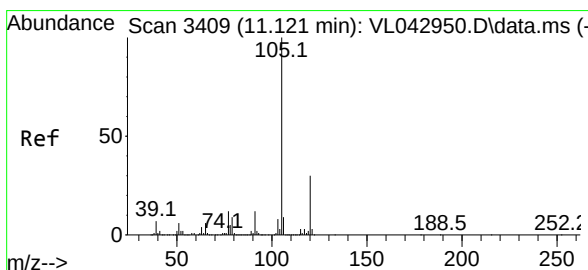
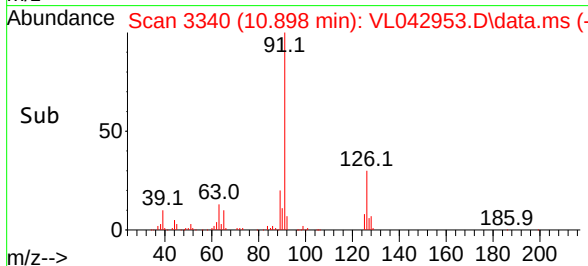
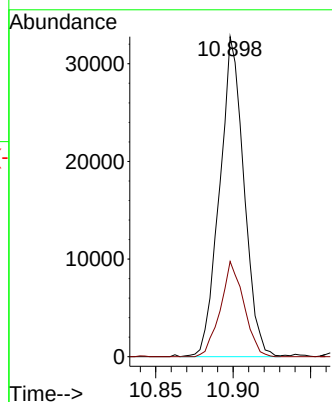
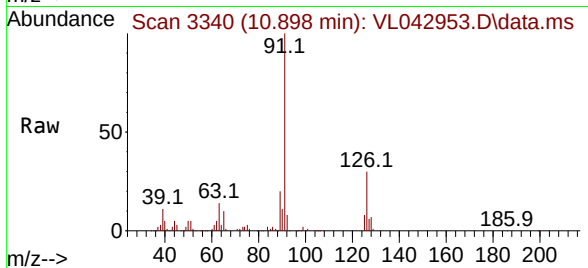




#71
2-Chlorotoluene
Concen: 0.530 ppbv
RT: 10.898 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

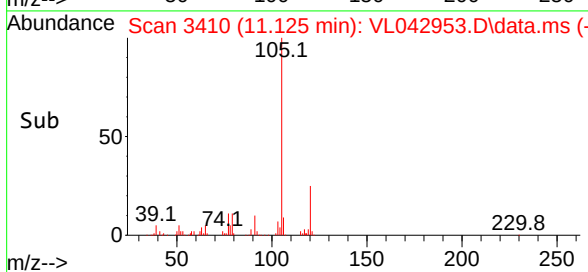
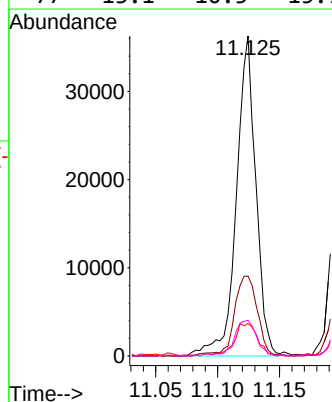
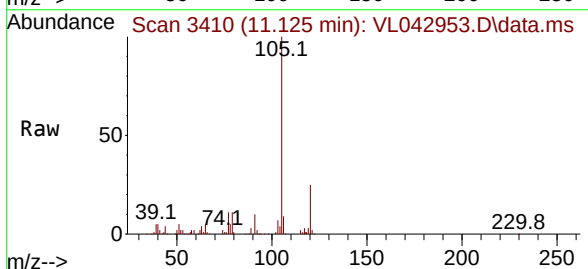
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

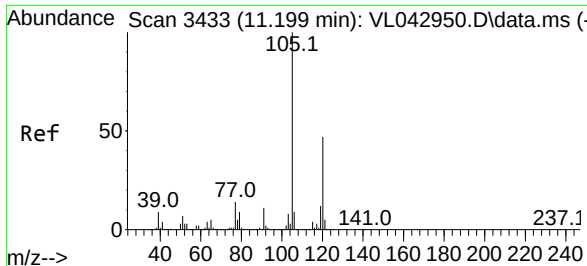
Tgt Ion: 91 Resp: 35797
Ion Ratio Lower Upper
91 100
126 28.7 12.3 49.3



#72
4-Ethyltoluene
Concen: 0.529 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion: 105 Resp: 39803
Ion Ratio Lower Upper
105 100
120 29.5 24.2 36.2
91 12.5 10.0 15.0
77 13.1 10.5 15.7

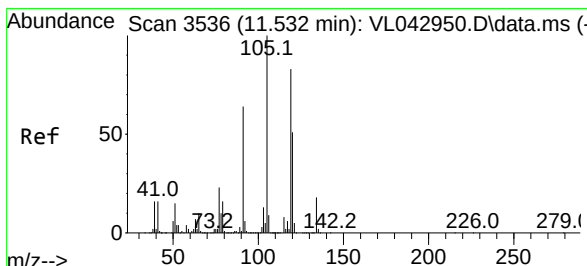
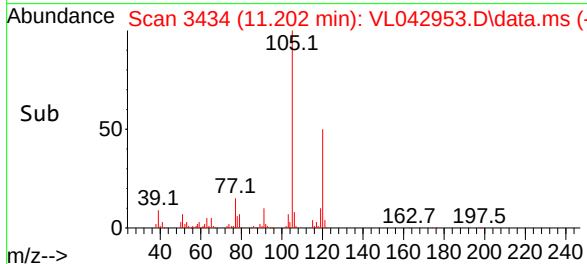
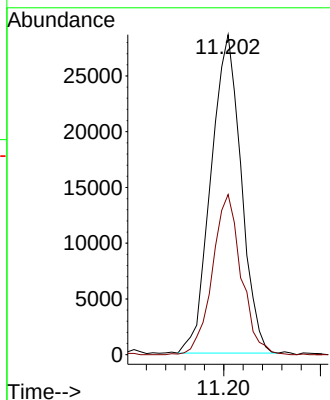
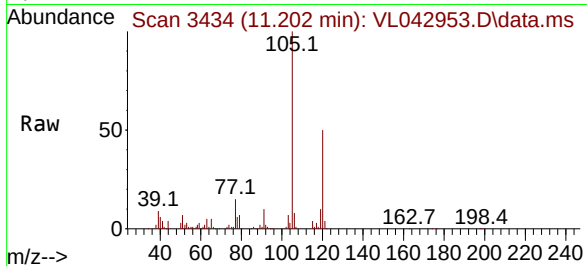




#73
1,3,5-Trimethylbenzene
Concen: 0.507 ppbv
RT: 11.202 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

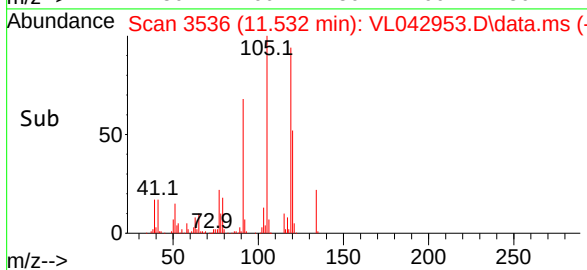
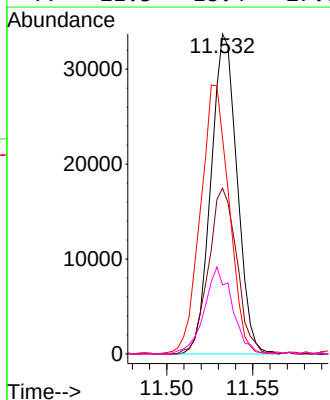
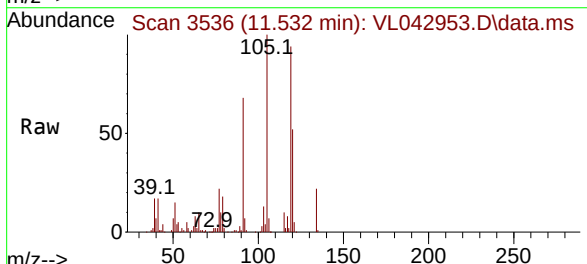
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

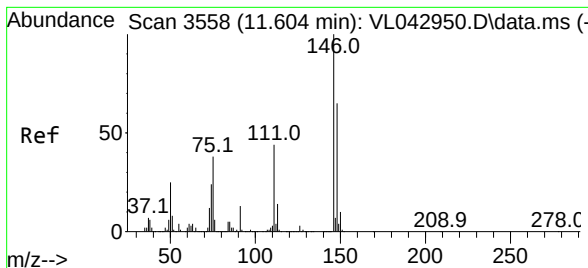
Tgt Ion:105 Resp: 30932
Ion Ratio Lower Upper
105 100
120 50.1 38.0 57.0



#74
1,2,4-Trimethylbenzene
Concen: 0.529 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.000 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion:105 Resp: 35601
Ion Ratio Lower Upper
105 100
120 51.8 40.9 61.3
91 66.9 51.2 76.8
77 21.3 18.4 27.6





#75

1,3-Dichlorobenzene

Concen: 0.510 ppbv

RT: 11.607 min Scan# 3558

Delta R.T. 0.003 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

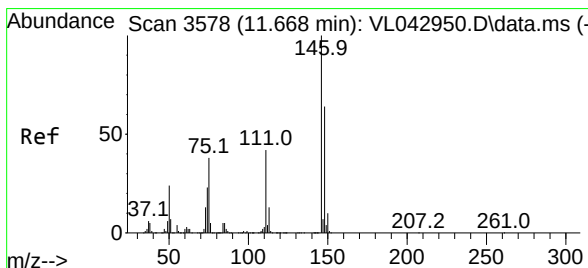
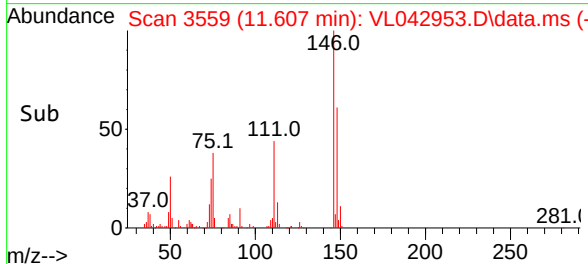
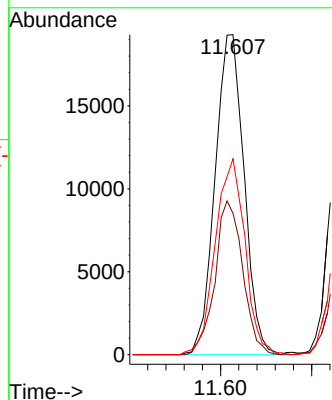
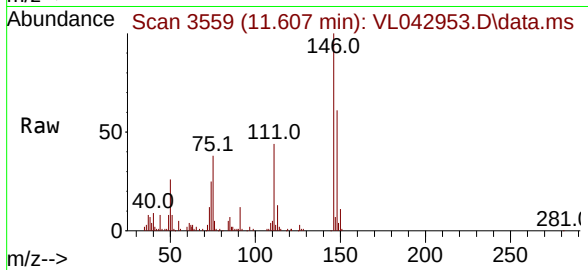
Tgt Ion:146 Resp: 21307

Ion Ratio Lower Upper

146 100

111 45.9 22.3 66.9

148 62.7 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 0.516 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. -0.000 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

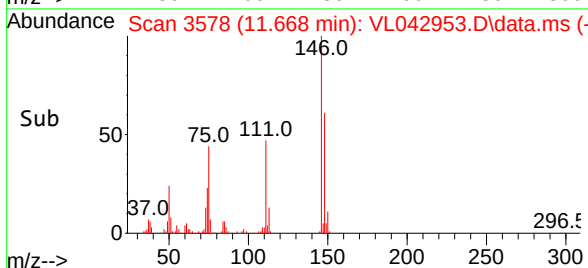
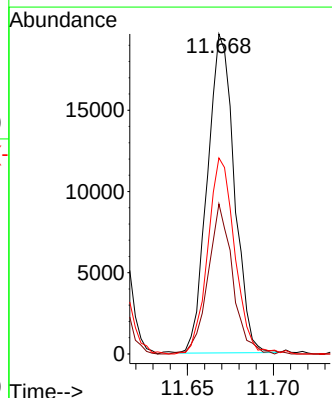
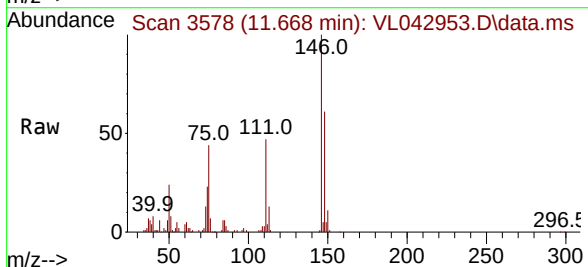
Tgt Ion:146 Resp: 21404

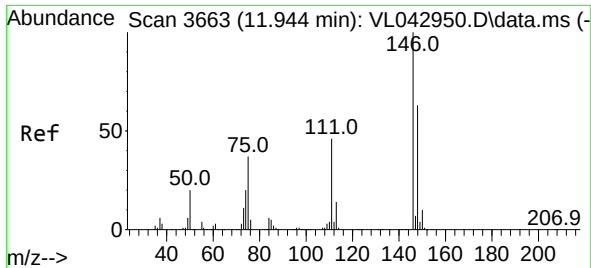
Ion Ratio Lower Upper

146 100

111 42.9 21.5 64.5

148 61.6 31.9 95.5

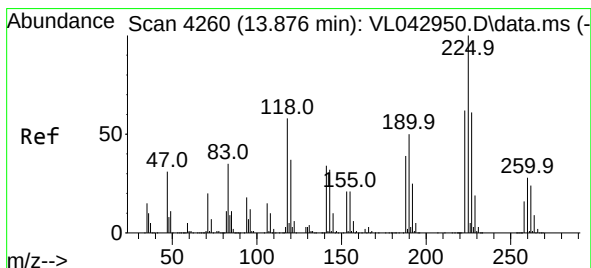
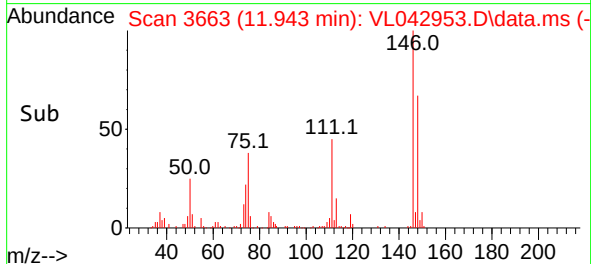
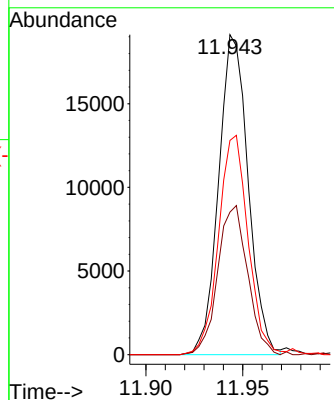
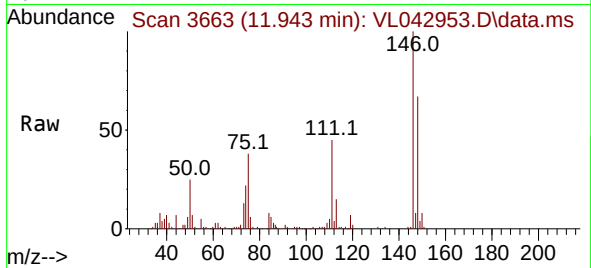




#77
1,2-Dichlorobenzene
Concen: 0.510 ppbv
RT: 11.943 min Scan# 3663
Delta R.T. -0.000 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

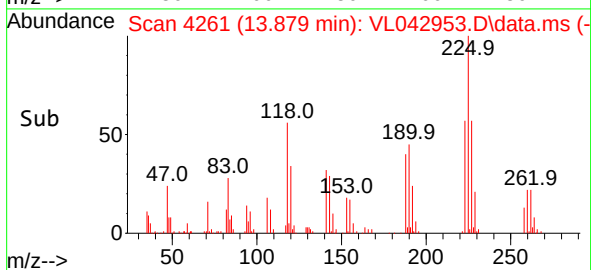
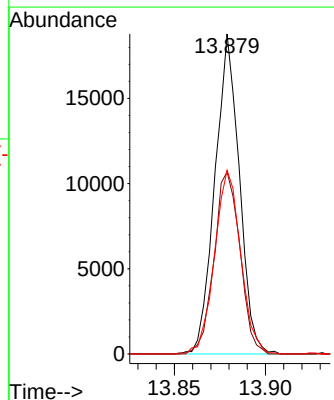
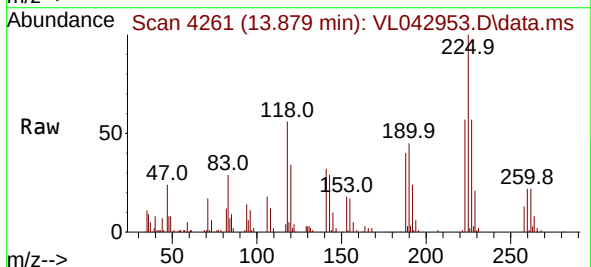
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

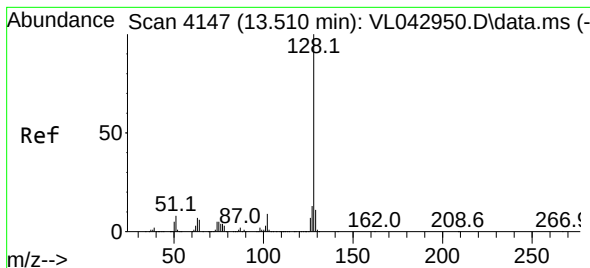
Tgt Ion:	146	Resp:	20279
Ion Ratio	Lower	Upper	
146	100		
111	47.5	23.1	69.3
148	69.3	32.0	96.0



#78
Hexachloro-1,3-Butadiene
Concen: 0.563 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL042953.D
Acq: 22 Sep 2025 11:22

Tgt Ion:	225	Resp:	17515
Ion Ratio	Lower	Upper	
225	100		
223	60.4	50.1	75.1
227	61.5	50.4	75.6





#79

Naphthalene

Concen: 0.429 ppbv

RT: 13.510 min Scan# 4147

Delta R.T. -0.000 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

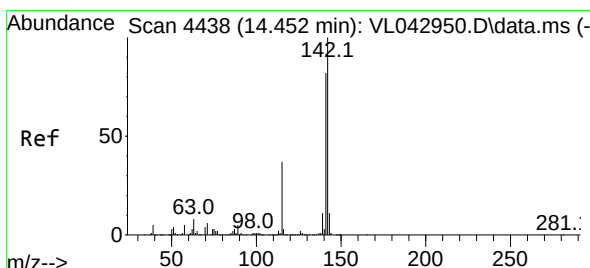
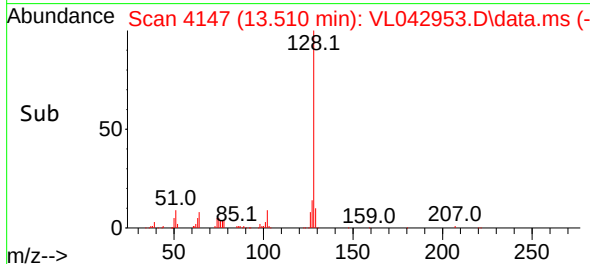
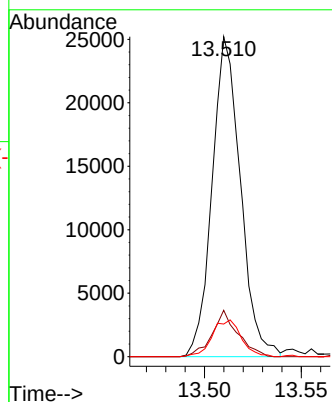
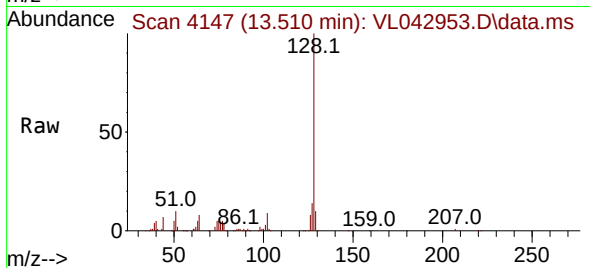
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:128	Resp:	25577
Ion Ratio	Lower	Upper
128	100	
127	14.5	10.6 15.8
129	10.2	9.0 13.6



#80

Naphthalene,2-methyl-

Concen: 0.484 ppbv

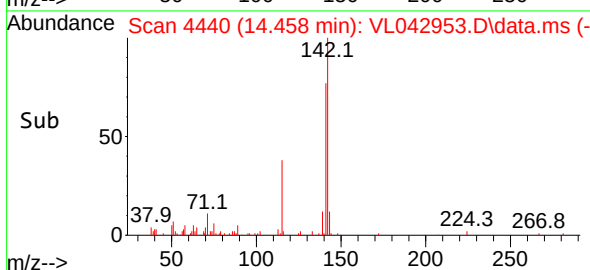
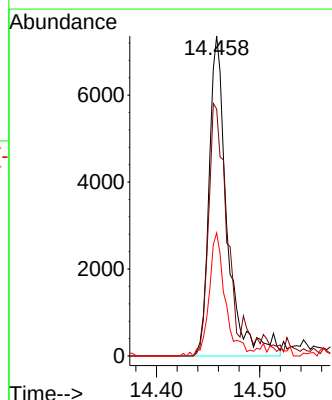
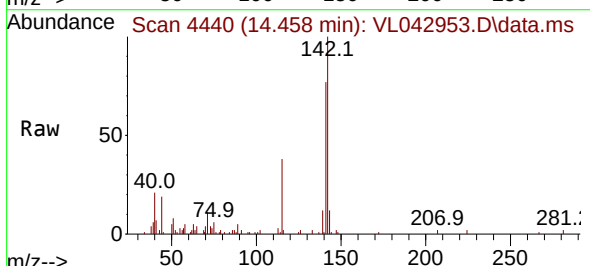
RT: 14.458 min Scan# 4440

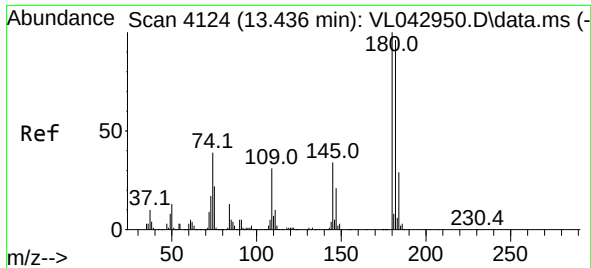
Delta R.T. 0.006 min

Lab File: VL042953.D

Acq: 22 Sep 2025 11:22

Tgt Ion:142	Resp:	8906
Ion Ratio	Lower	Upper
142	100	
141	91.9	65.1 97.7
115	35.4	28.9 43.3

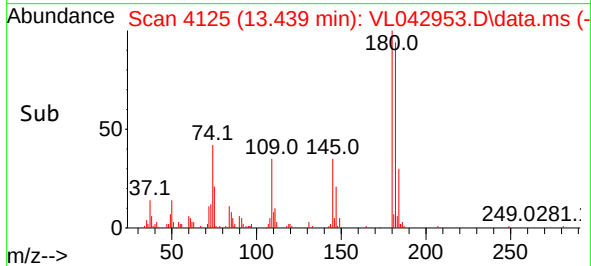
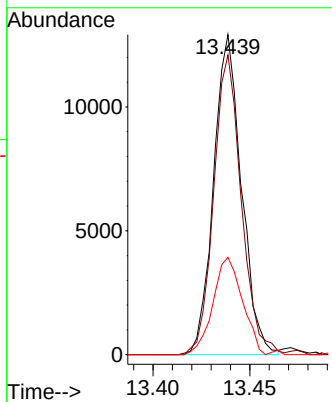
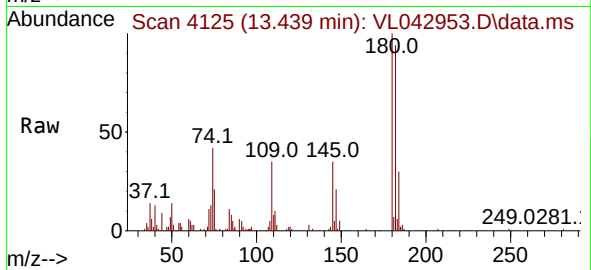




#81
 1,2,4-Trichlorobenzene
 Concen: 0.406 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042953.D
 Acq: 22 Sep 2025 11:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.3	75.7	113.5
184	32.6	23.9	35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042954.D
 Acq On : 22 Sep 2025 11:56
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Quant Time: Sep 23 02:12:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	163771	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	498673	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	457171	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	337196	9.881	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	2310	0.105	ppbv	93
3) Chlorodifluoromethane	1.476	51	3144	0.115	ppbv #	62
4) Chloromethane	1.534	50	1320	0.132	ppbv #	79
5) Vinyl Chloride	1.580	62	920	0.102	ppbv #	75
6) Bromomethane	1.667	94	471	0.148	ppbv	96
7) Chloroethane	1.703	64	442	0.126	ppbv #	56
8) Dichlorotetrafluoroethane	1.557	85	1978	0.105	ppbv	93
9) Propene	1.434	41	264	0.022	ppbv	93
10) Heptane	4.975	43	2270	0.071	ppbv #	29
11) Trichlorofluoromethane	2.143	101	1891	0.089	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.143	101	1891	0.110	ppbv	99
13) Ethanol	1.890	45	1961	1.713	ppbv	88
14) Bromoethene	1.784	108	613	0.094	ppbv #	1
15) Acetone	1.835	43	5111	0.240	ppbv #	82
16) 1,3-Butadiene	1.612	39	1753	0.174	ppbv	87
17) tert-Butyl alcohol	2.042	59	2596	0.111	ppbv #	1
18) 1,1-Dichloroethene	2.036	96	1149	0.144	ppbv	77
19) Isopropyl Alcohol	1.890	45	1961	0.153	ppbv #	54
20) Methylene Chloride	2.065	84	3388	Below Cal	#	68
21) Allyl Chloride	2.098	41	2662	0.179	ppbv	91
22) trans-1,2-Dichloroethene	2.340	96	1199	0.133	ppbv	98
23) Vinyl Acetate	2.463	43	3599	0.118	ppbv #	76
24) 1,1-Dichloroethane	2.411	63	2202	0.124	ppbv #	97
25) Ethyl Acetate	2.842	43	6357	0.118	ppbv #	94
26) Hexane	2.829	57	2622	0.107	ppbv #	6
27) Carbon Disulfide	2.153	76	2391	0.108	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	1171	0.092	ppbv #	1
29) Chloroform	2.848	83	3449	0.107	ppbv	90
30) Cyclohexane	3.861	84	1880	0.092	ppbv #	42
31) cis-1,2-Dichloroethene	2.340	61	1780	0.077	ppbv	88
32) 1,1,1-Trichloroethane	3.370	97	3418	0.098	ppbv	96
34) 2-Butanone	2.564	43	4230	0.121	ppbv	98
35) Carbon Tetrachloride	3.764	117	2806	0.087	ppbv #	66
36) Benzene	3.654	78	2876	0.061	ppbv #	94
37) 1,2-Dichloroethane	3.221	62	2858	0.116	ppbv #	96
38) Trichloroethene	4.548	130	471	0.020	ppbv #	37
39) 1,2-Dichloropropane	3.959	63	123686	7.230	ppbv #	25
40) 1,4-Dioxane	4.612	88	732	0.092	ppbv #	34
41) Tetrahydrofuran	3.068	42	2075	0.103	ppbv #	79
42) Bromodichloromethane	4.489	83	3539	0.103	ppbv #	90
43) Methyl Methacrylate	4.878	69	589	0.031	ppbv #	1
44) 2,2,4-Trimethylpentane	4.635	57	4291	0.053	ppbv #	43
45) t-1,3-Dichloropropene	6.418	75	999	0.049	ppbv #	27

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042954.D
 Acq On : 22 Sep 2025 11:56
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Quant Time: Sep 23 02:12:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

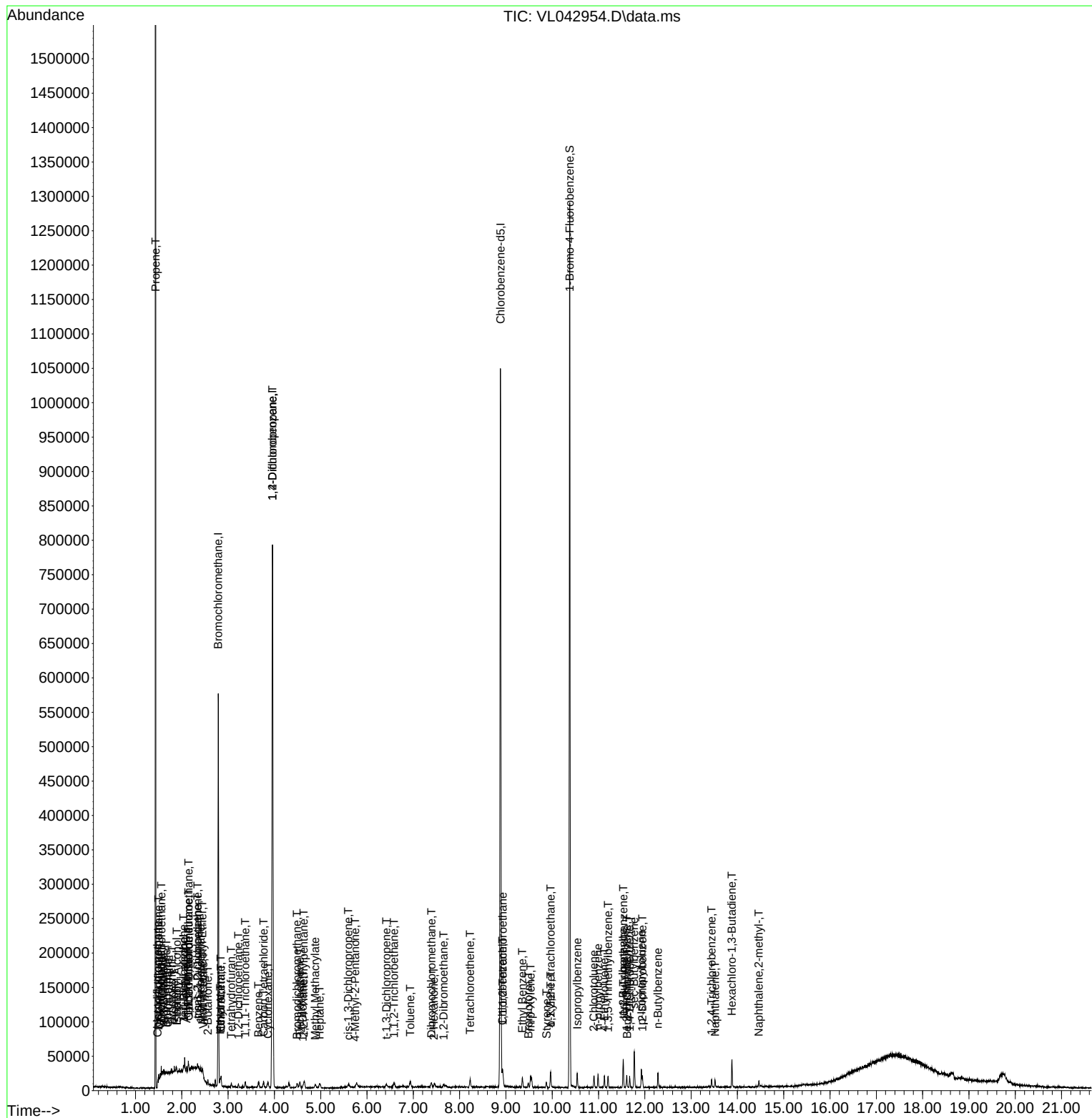
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	1566	0.060	ppbv #	61
47) 1,1,2-Trichloroethane	6.583	97	1588	0.088	ppbv #	78
48) Dibromochloromethane	7.393	129	1273	0.044	ppbv #	10
49) Bromoform	9.487	173	2105	0.084	ppbv	97
50) 4-Methyl-2-Pentanone	5.742	43	104	0.002	ppbv #	39
51) 2-Hexanone	7.444	43	921	0.025	ppbv #	28
52) Tetrachloroethene	8.228	164	1022	0.056	ppbv #	68
53) Toluene	6.933	91	5973	0.108	ppbv	96
54) 1,2-Dibromoethane	7.655	107	2129	0.084	ppbv	81
56) 1,1,1,2-Tetrachloroethane	8.930	131	1250	0.057	ppbv #	1
57) Chlorobenzene	8.924	112	4812	0.115	ppbv #	75
58) Ethyl Benzene	9.354	91	8123	0.108	ppbv	97
59) m/p-Xylene	9.532	91	7134	0.120	ppbv #	100
60) o-Xylene	9.966	91	6052	0.102	ppbv	93
61) Styrene	9.878	104	2851	0.102	ppbv	91
62) Isopropylbenzene	10.542	105	9236	0.105	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.966	83	3301	0.106	ppbv	97
64) n-propylbenzene	10.989	120	2475	0.107	ppbv	95
65) tert-Butylbenzene	11.529	119	8306	0.106	ppbv	95
66) Benzyl Chloride	11.620	91	318	0.039	ppbv #	65
67) sec-Butylbenzene	11.769	105	11601	0.106	ppbv	95
69) p-Isopropyltoluene	11.927	119	9493	0.103	ppbv	98
70) n-Butylbenzene	12.283	91	8041	0.089	ppbv	96
71) 2-Chlorotoluene	10.898	91	4737	0.071	ppbv	73
72) 4-Ethyltoluene	11.124	105	7048	0.095	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.209	105	5976	0.099	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	6807	0.103	ppbv #	75
75) 1,3-Dichlorobenzene	11.607	146	4130	0.100	ppbv	99
76) 1,4-Dichlorobenzene	11.671	146	3832	0.094	ppbv	95
77) 1,2-Dichlorobenzene	11.950	146	4083	0.104	ppbv	96
78) Hexachloro-1,3-Butadiene	13.879	225	3820	0.125	ppbv	94
79) Naphthalene	13.516	128	4836	0.082	ppbv	96
80) Naphthalene,2-methyl-	14.461	142	4029	0.222	ppbv	90
81) 1,2,4-Trichlorobenzene	13.442	180	2055	0.066	ppbv	97

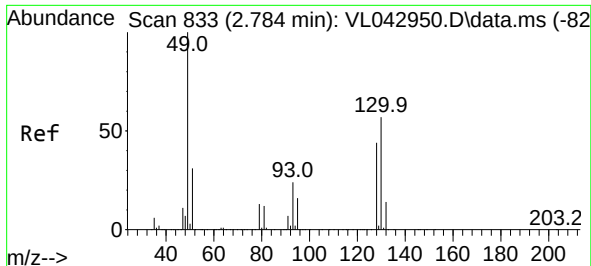
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042954.D
Acq On : 22 Sep 2025 11:56
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Sep 23 02:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

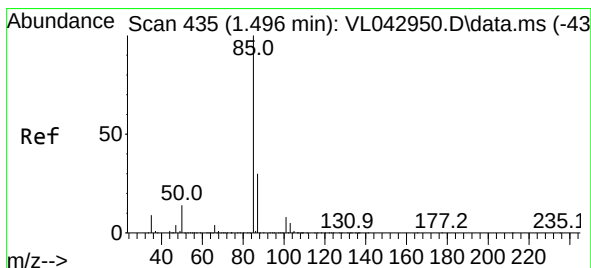
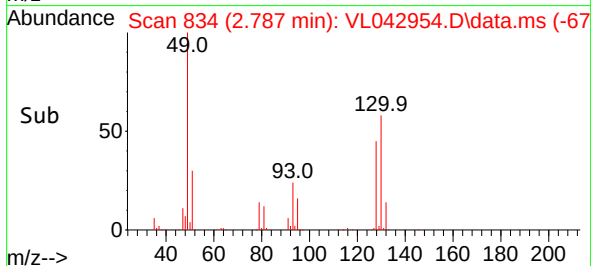
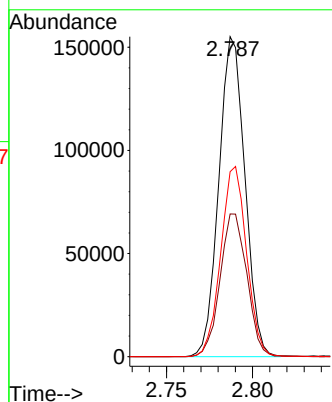
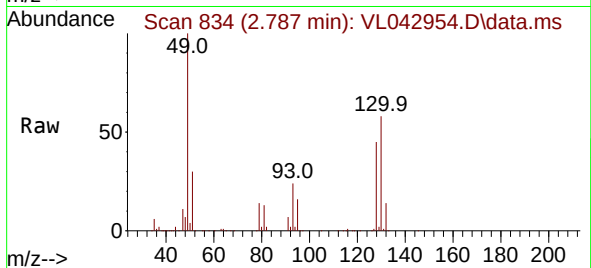




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

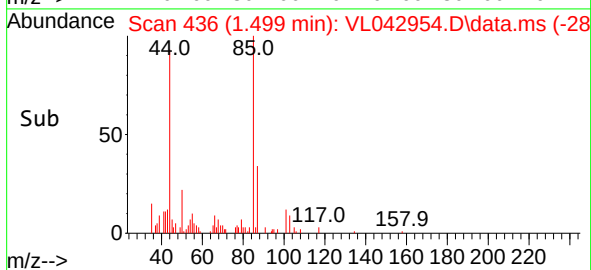
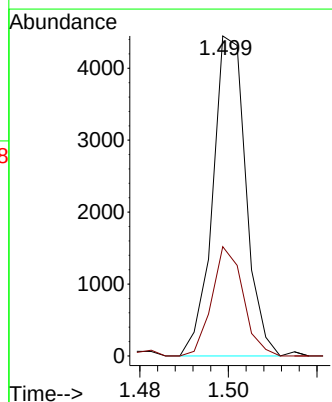
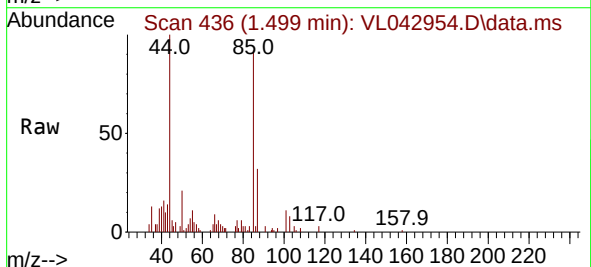
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

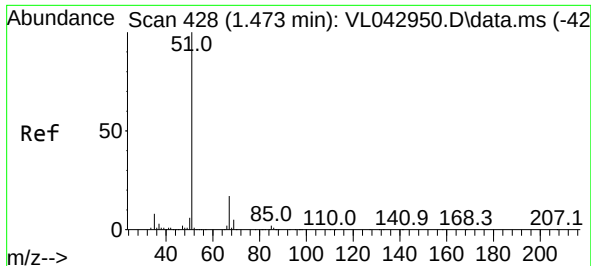
Tgt Ion: 49 Resp: 163771
Ion Ratio Lower Upper
49 100
128 45.9 22.9 68.8
130 59.0 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 0.105 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion: 85 Resp: 2310
Ion Ratio Lower Upper
85 100
87 34.2 24.3 36.5

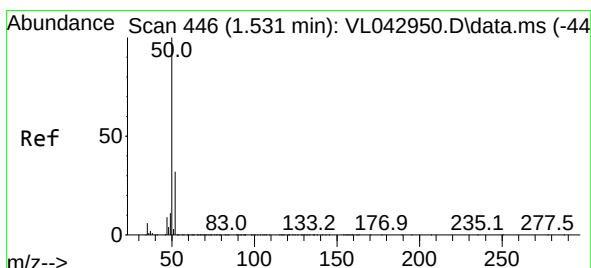
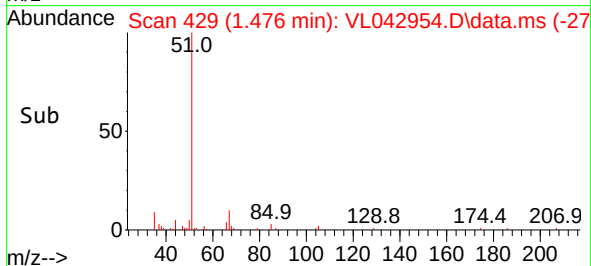
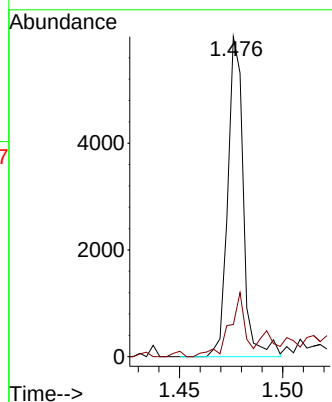
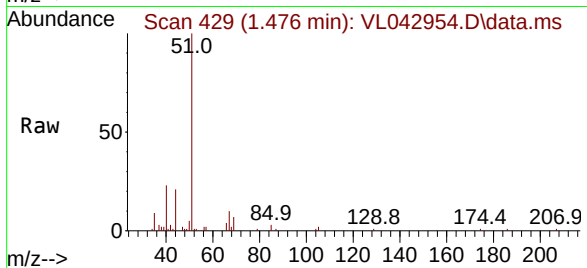




#3
Chlorodifluoromethane
Concen: 0.115 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

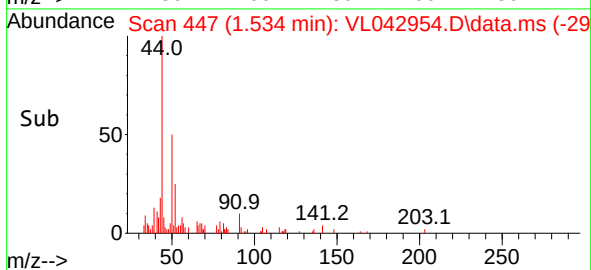
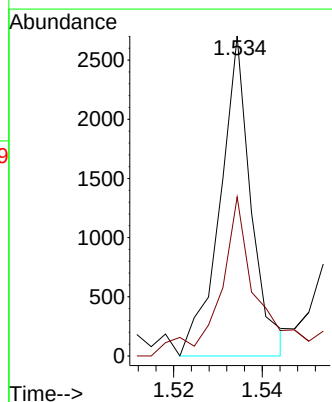
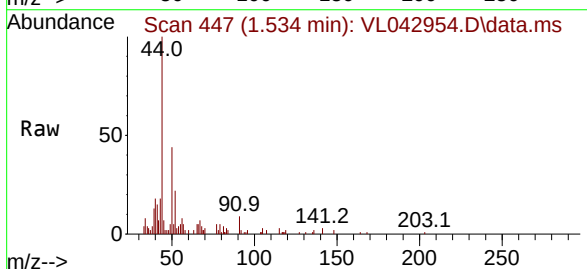
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

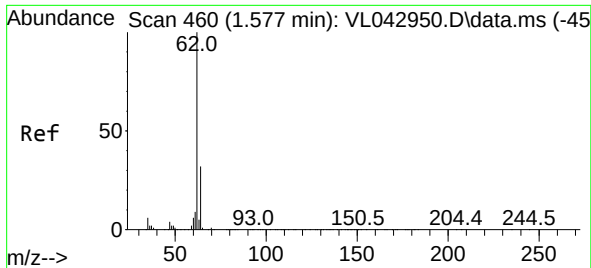
Tgt Ion: 51 Resp: 3144
Ion Ratio Lower Upper
51 100
67 33.8 13.8 20.8#



#4
Chloromethane
Concen: 0.132 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion: 50 Resp: 1320
Ion Ratio Lower Upper
50 100
52 43.9 25.9 38.9#

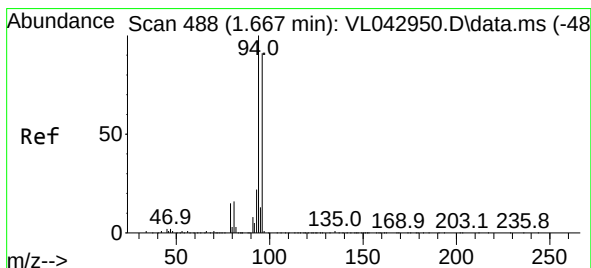
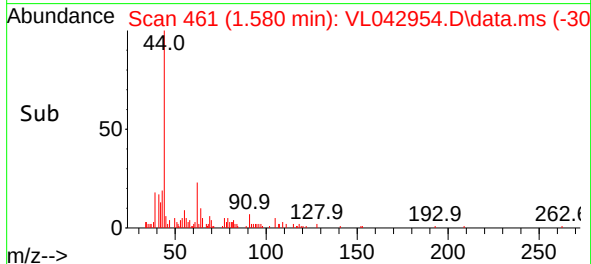
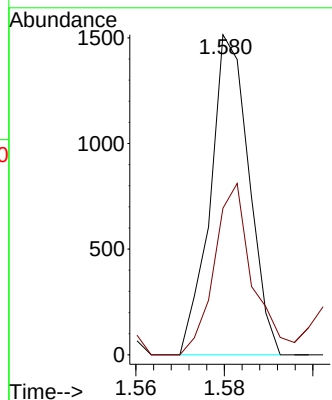
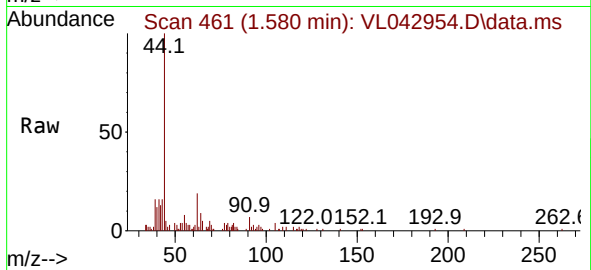




#5
 Vinyl Chloride
 Concen: 0.102 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042954.D
 Acq: 22 Sep 2025 11:56

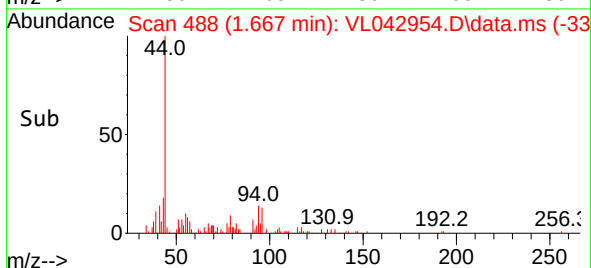
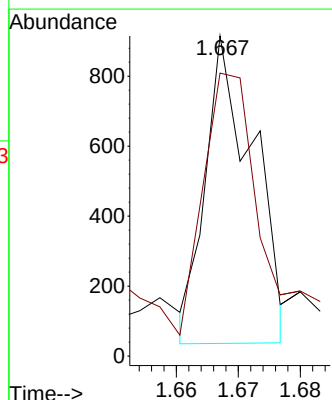
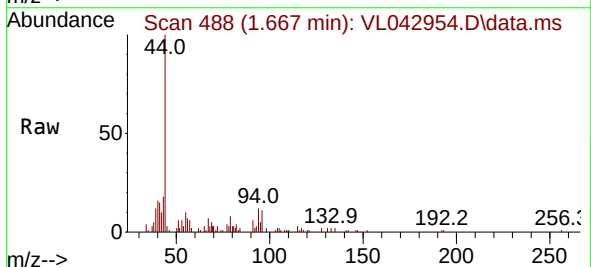
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

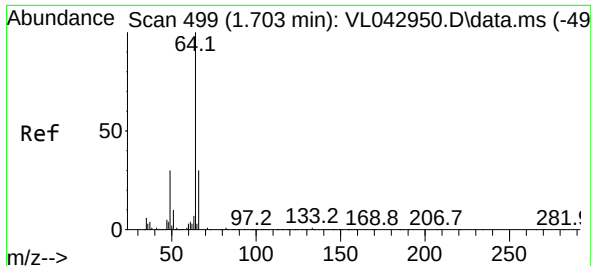
Tgt Ion: 62 Resp: 920
 Ion Ratio Lower Upper
 62 100
 64 45.7 25.4 38.2#



#6
 Bromomethane
 Concen: 0.148 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042954.D
 Acq: 22 Sep 2025 11:56

Tgt Ion: 94 Resp: 471
 Ion Ratio Lower Upper
 94 100
 96 94.8 72.6 108.8

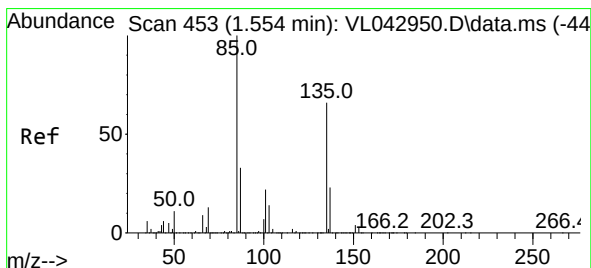
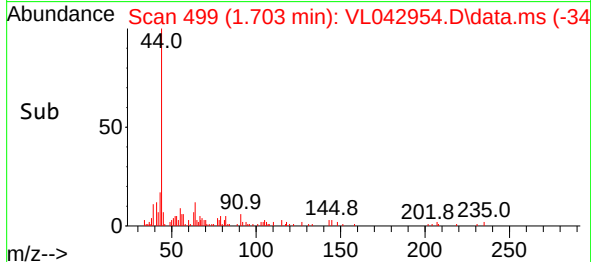
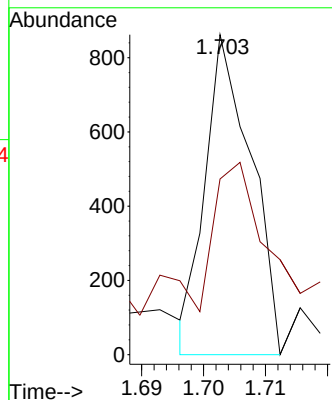
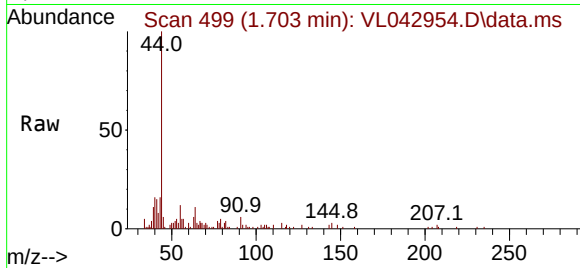




#7
Chloroethane
Concen: 0.126 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

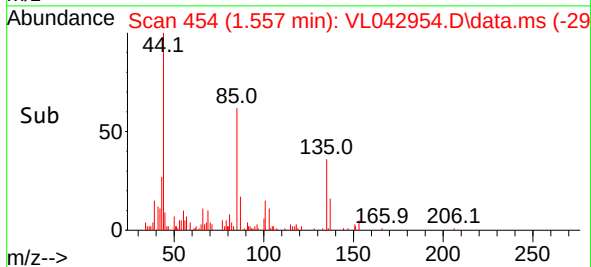
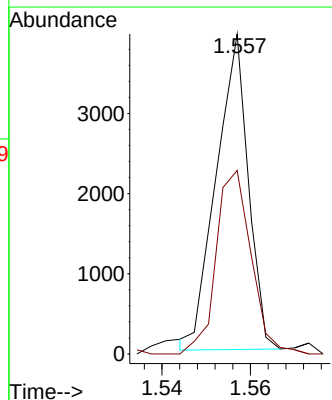
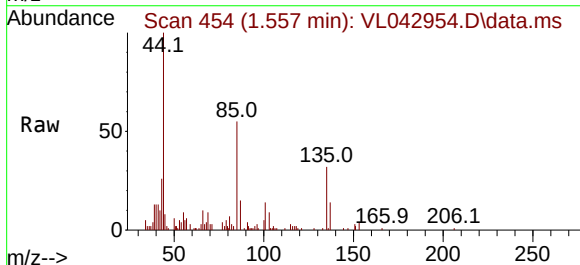
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

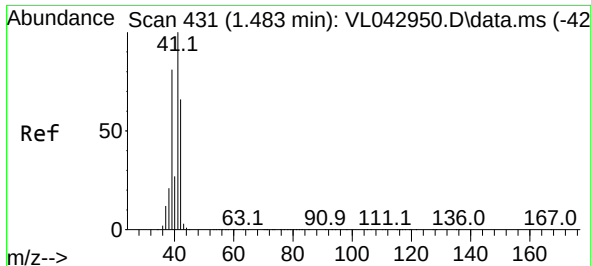
Tgt Ion: 64 Resp: 442
Ion Ratio Lower Upper
64 100
66 54.9 24.6 36.8#



#8
Dichlorotetrafluoroethane
Concen: 0.105 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion: 85 Resp: 1978
Ion Ratio Lower Upper
85 100
135 67.7 49.7 74.5

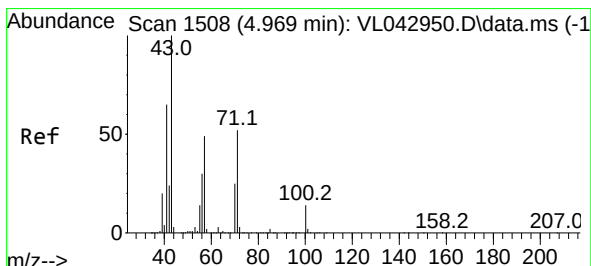
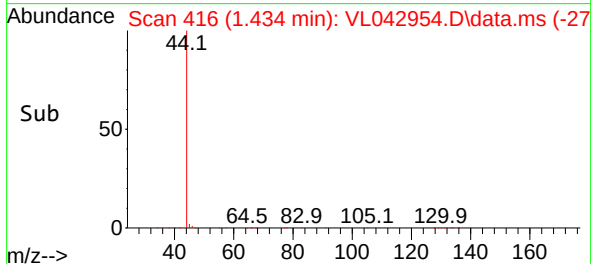
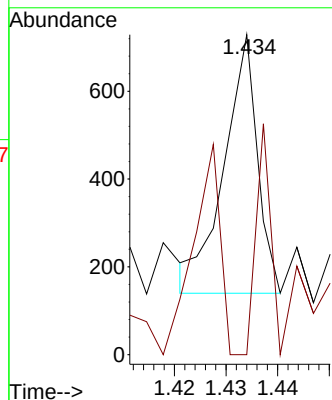
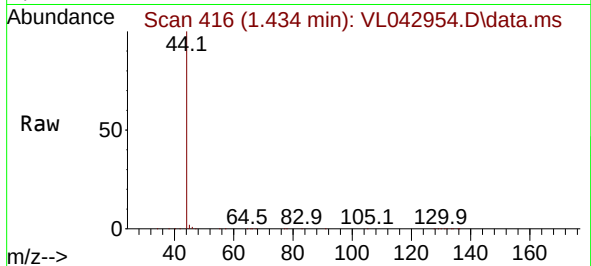




#9
 Propene
 Concen: 0.022 ppbv
 RT: 1.434 min Scan# 41
 Delta R.T. -0.049 min
 Lab File: VL042954.D
 Acq: 22 Sep 2025 11:56

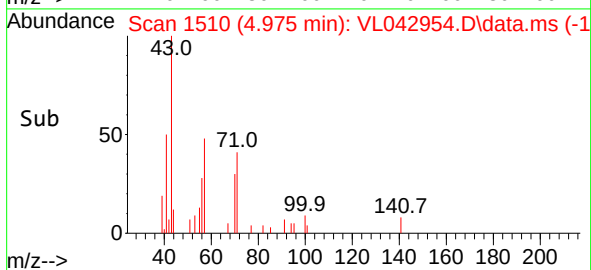
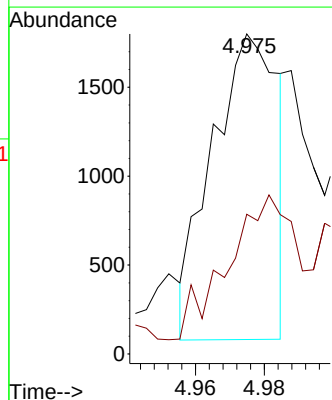
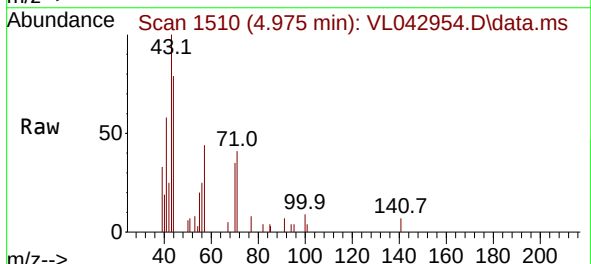
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

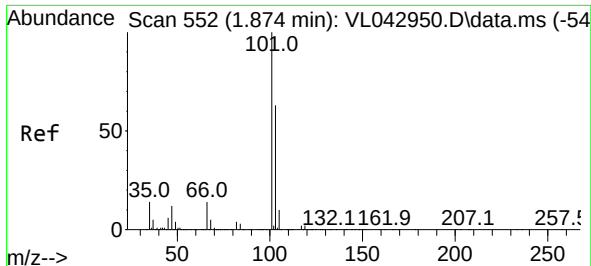
Tgt Ion: 41 Resp: 264
 Ion Ratio Lower Upper
 41 100
 42 77.3 57.4 86.2



#10
 Heptane
 Concen: 0.071 ppbv
 RT: 4.975 min Scan# 1510
 Delta R.T. 0.006 min
 Lab File: VL042954.D
 Acq: 22 Sep 2025 11:56

Tgt Ion: 43 Resp: 2270
 Ion Ratio Lower Upper
 43 100
 57 0.0 38.6 57.8#

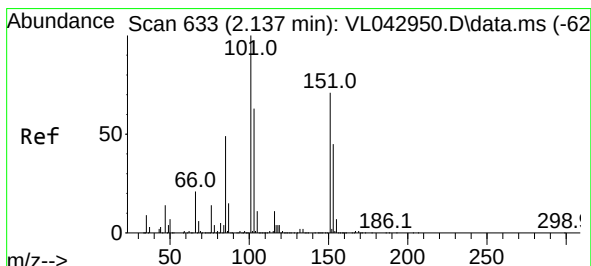
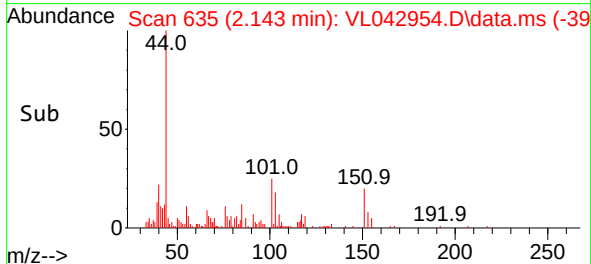
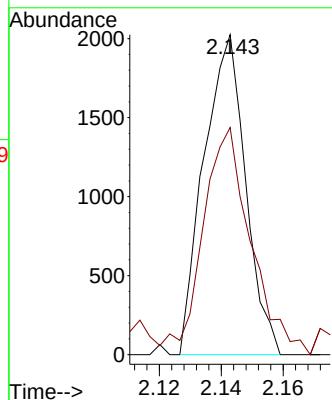
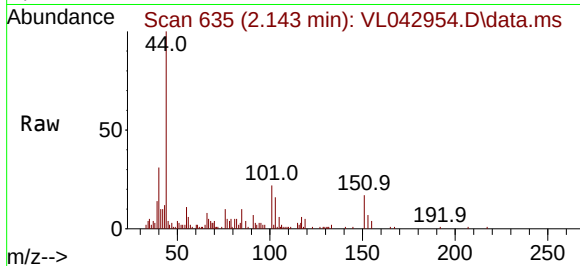




#11
Trichlorofluoromethane
Concen: 0.089 ppbv
RT: 2.143 min Scan# 611
Delta R.T. 0.268 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

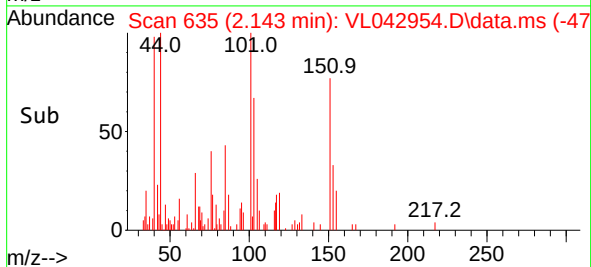
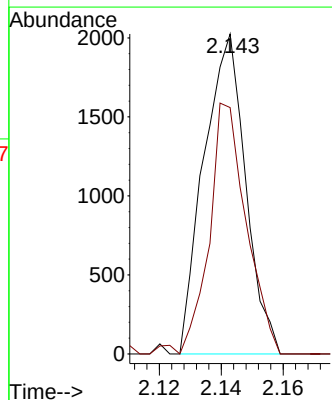
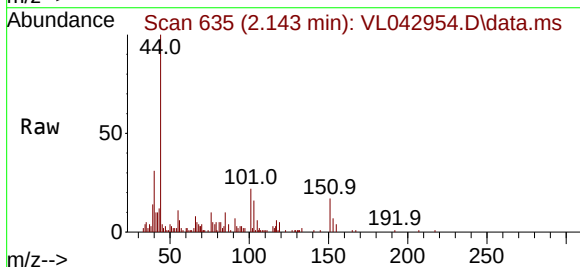
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

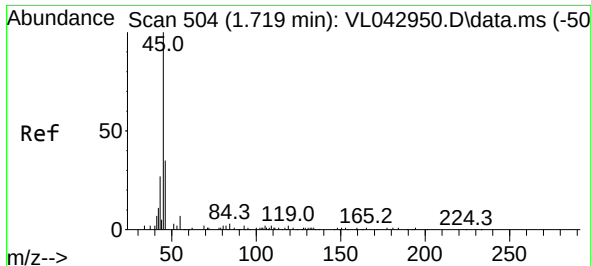
Tgt Ion:101 Resp: 1891
Ion Ratio Lower Upper
101 100
103 66.6 50.1 75.1



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.110 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion:101 Resp: 1891
Ion Ratio Lower Upper
101 100
151 70.7 55.7 83.5

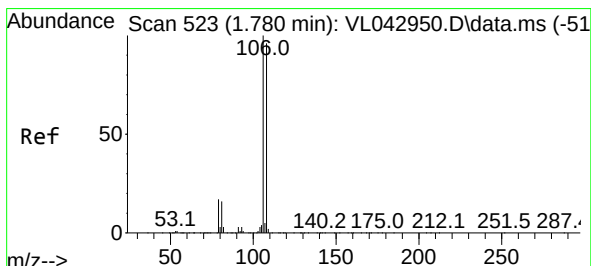
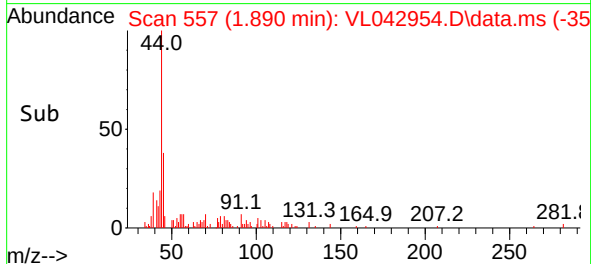
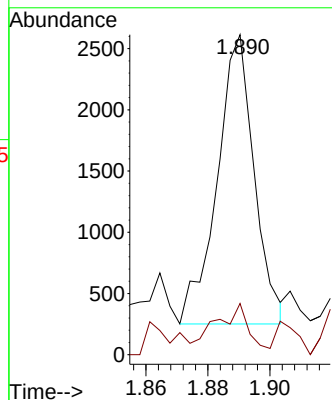
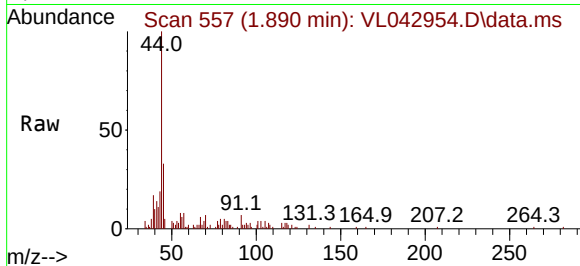




#13
 Ethanol
 Concen: 1.713 ppbv
 RT: 1.890 min Scan# 51
 Delta R.T. 0.171 min
 Lab File: VL042954.D
 Acq: 22 Sep 2025 11:56

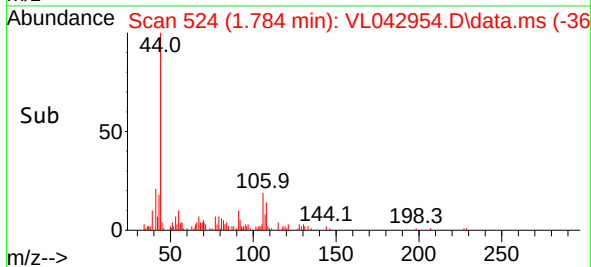
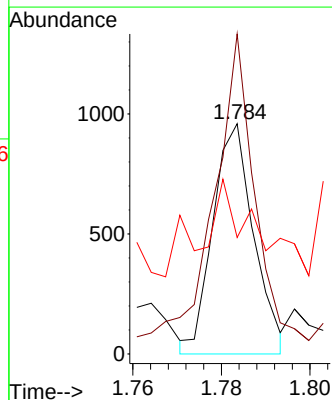
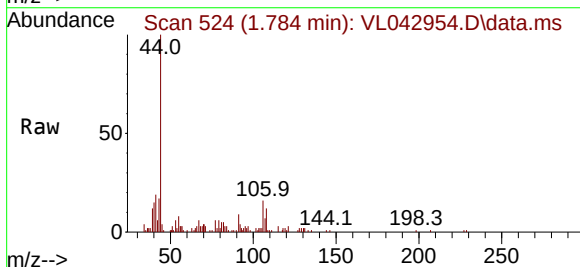
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

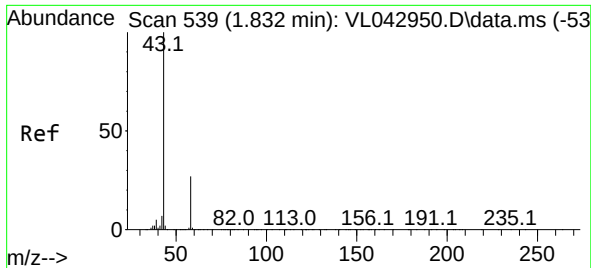
Tgt Ion: 45 Resp: 1961
 Ion Ratio Lower Upper
 45 100
 46 32.8 16.2 64.6



#14
 Bromoethene
 Concen: 0.094 ppbv
 RT: 1.784 min Scan# 524
 Delta R.T. 0.003 min
 Lab File: VL042954.D
 Acq: 22 Sep 2025 11:56

Tgt Ion: 108 Resp: 613
 Ion Ratio Lower Upper
 108 100
 106 175.9 86.0 129.0#
 79 154.5 14.2 21.2#

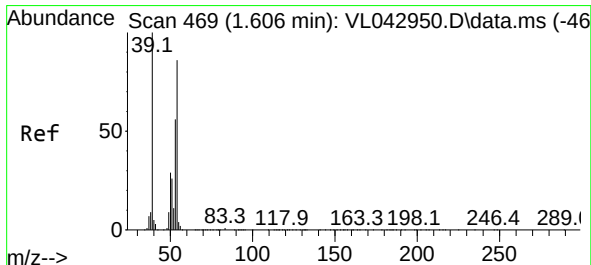
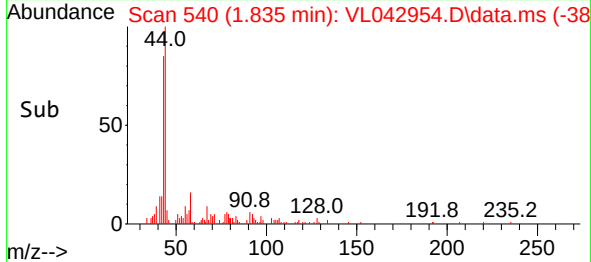
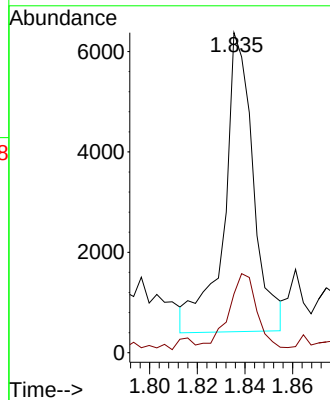
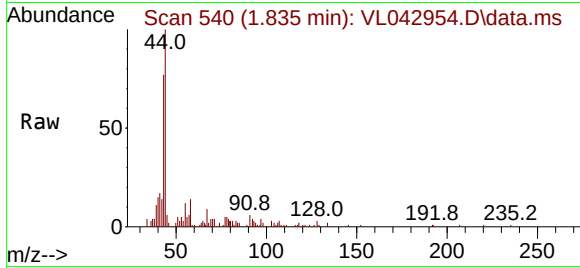




#15
Acetone
Concen: 0.240 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

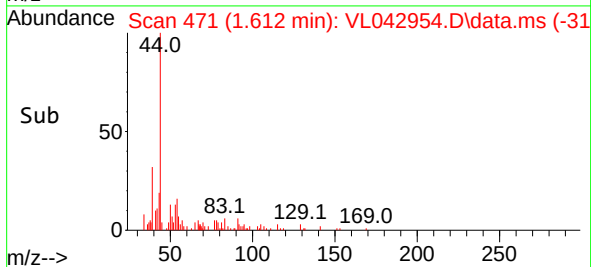
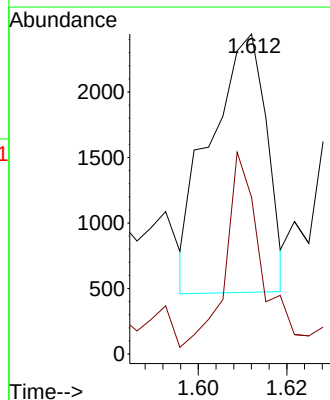
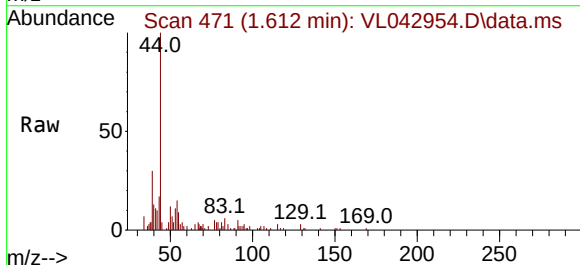
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

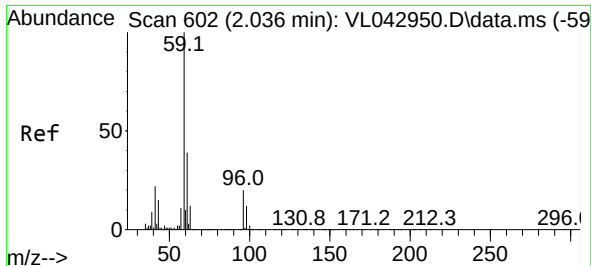
Tgt Ion: 43 Resp: 5111
Ion Ratio Lower Upper
43 100
58 37.2 22.3 33.5#



#16
1,3-Butadiene
Concen: 0.174 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion: 39 Resp: 1753
Ion Ratio Lower Upper
39 100
54 87.3 60.8 91.2

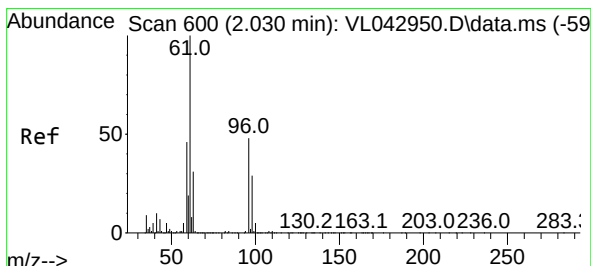
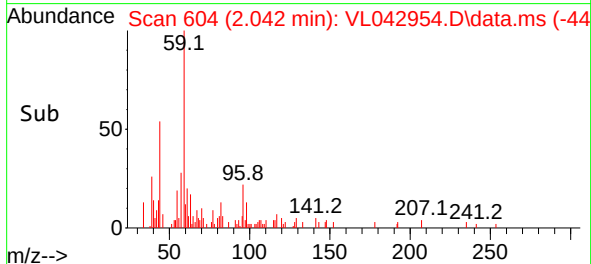
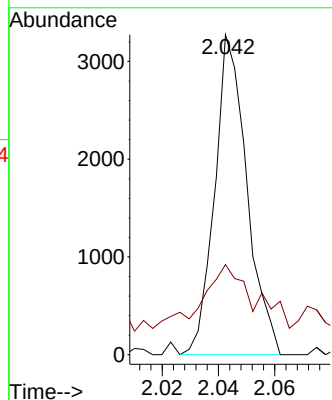
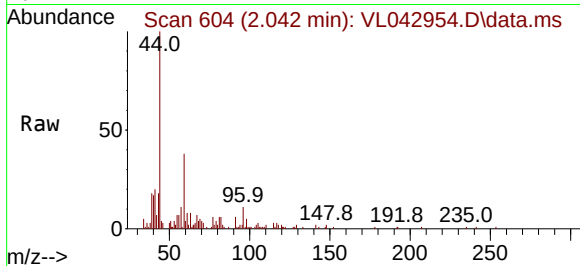




#17
tert-Butyl alcohol
Concen: 0.111 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

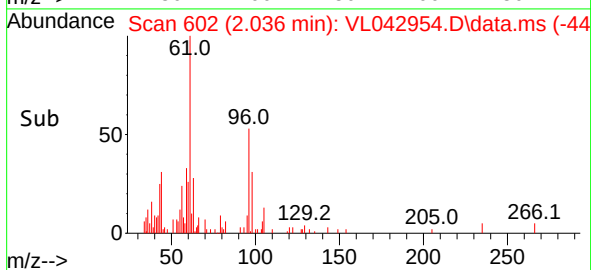
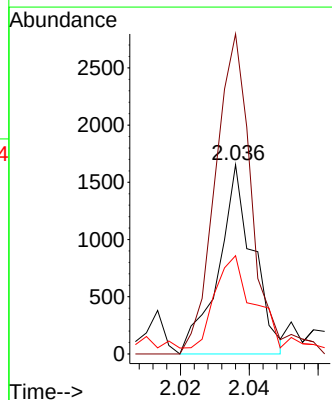
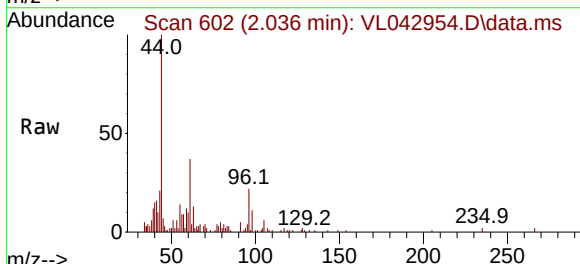
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

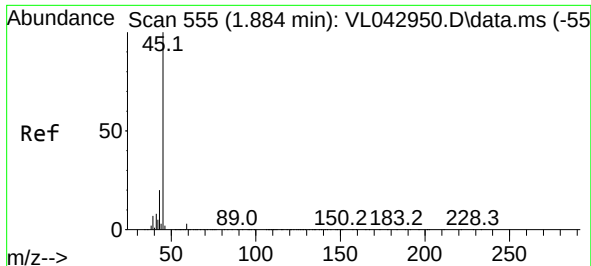
Tgt Ion: 59 Resp: 2596
Ion Ratio Lower Upper
59 100
57 66.0 8.6 12.8#



#18
1,1-Dichloroethene
Concen: 0.144 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion: 96 Resp: 1149
Ion Ratio Lower Upper
96 100
61 169.0 166.2 249.4
98 48.7 48.6 73.0





#19

Isopropyl Alcohol

Concen: 0.153 ppbv

RT: 1.890 min Scan# 51

Delta R.T. 0.006 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Instrument :

MSVOA_1

ClientSampleId :

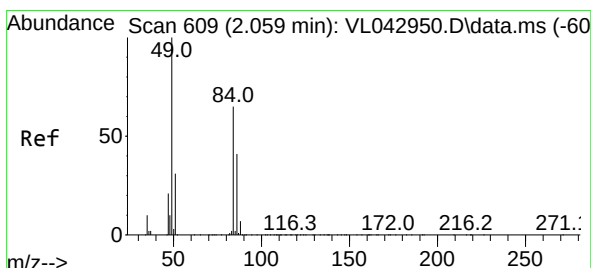
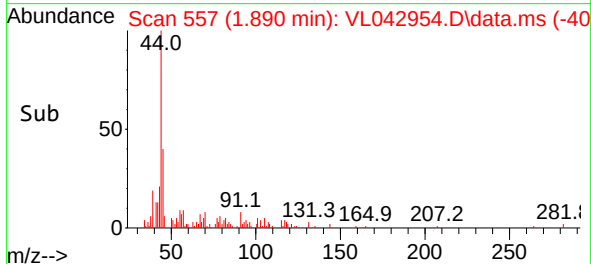
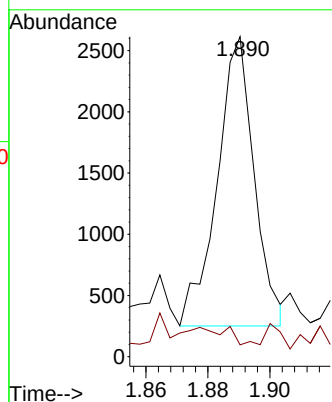
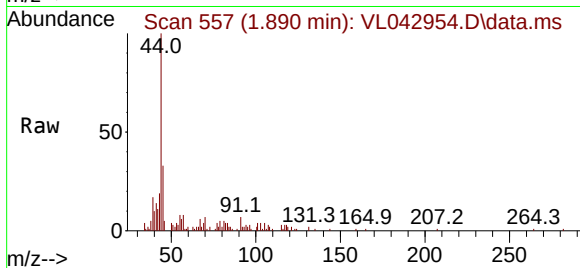
VSTDIC0.1

Tgt Ion: 45 Resp: 1961

Ion Ratio Lower Upper

45 100

58 10.5 31.0 46.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Tgt Ion: 84 Resp: 3388

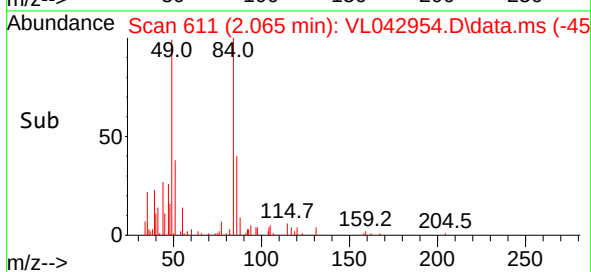
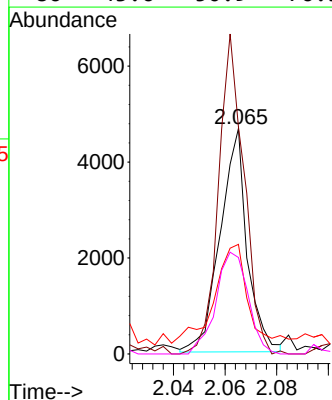
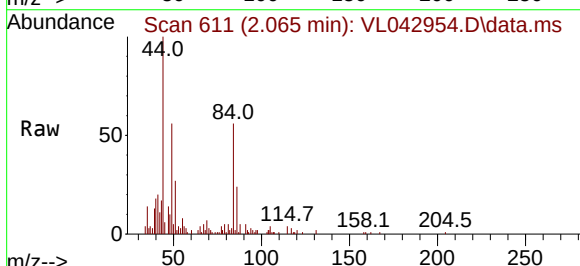
Ion Ratio Lower Upper

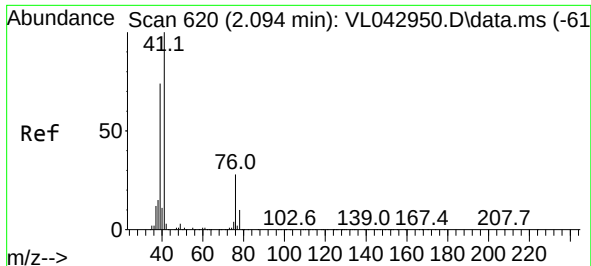
84 100

49 102.8 124.1 186.1#

51 41.6 39.8 59.8

86 43.6 50.9 76.3#

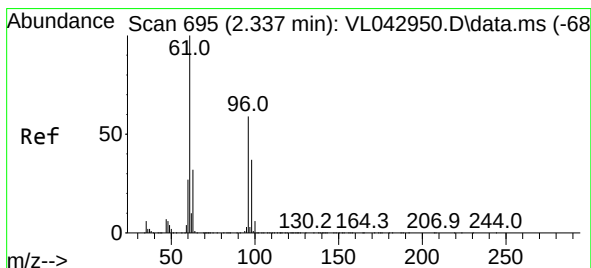
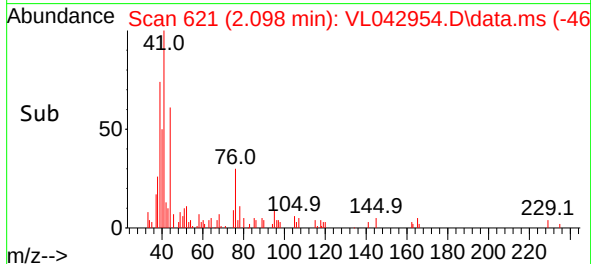
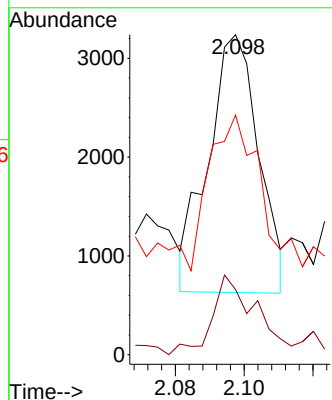
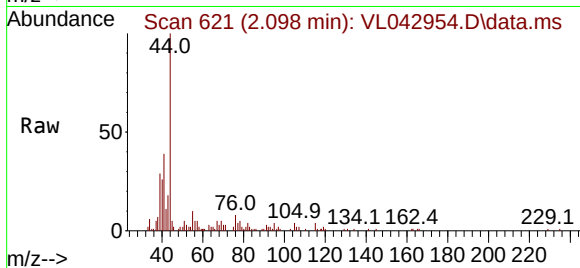




#21
 Allyl Chloride
 Concen: 0.179 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042954.D
 Acq: 22 Sep 2025 11:56

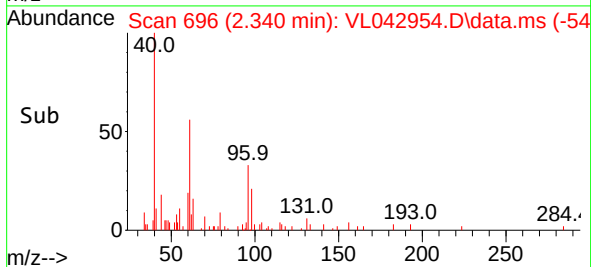
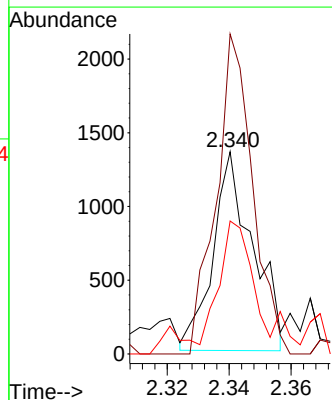
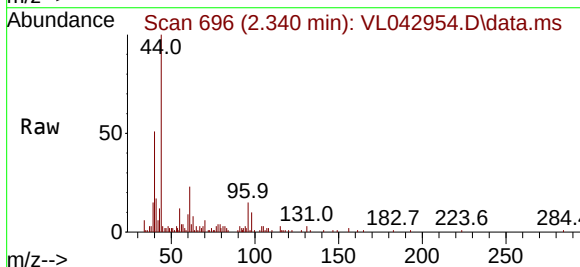
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

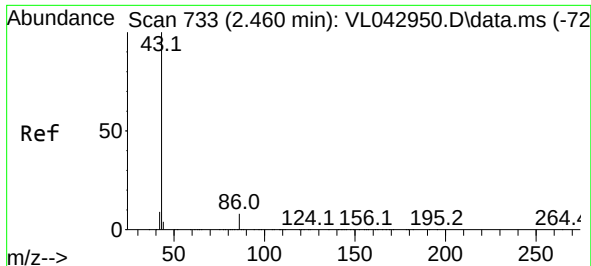
Tgt Ion: 41 Resp: 2662
 Ion Ratio Lower Upper
 41 100
 76 32.2 22.3 33.5
 39 68.1 61.3 91.9



#22
 trans-1,2-Dichloroethene
 Concen: 0.133 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.003 min
 Lab File: VL042954.D
 Acq: 22 Sep 2025 11:56

Tgt Ion: 96 Resp: 1199
 Ion Ratio Lower Upper
 96 100
 61 167.4 136.5 204.7
 98 62.5 50.6 76.0

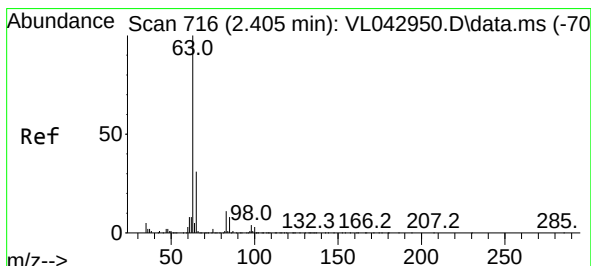
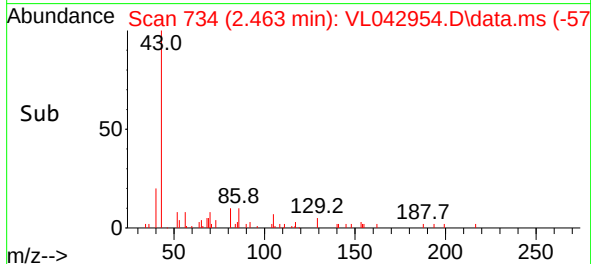
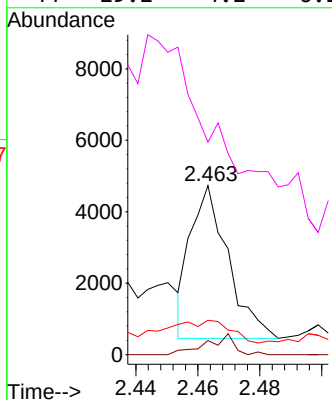
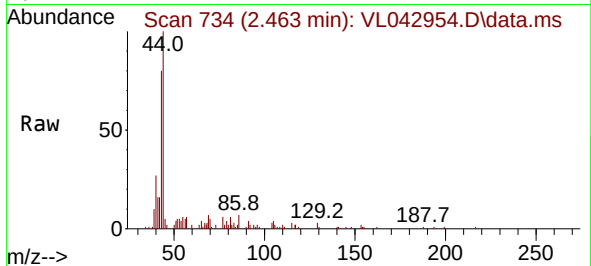




#23
 Vinyl Acetate
 Concen: 0.118 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042954.D
 Acq: 22 Sep 2025 11:56

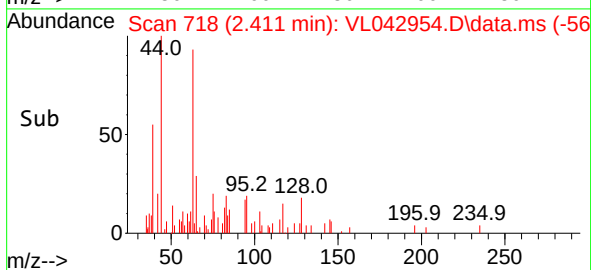
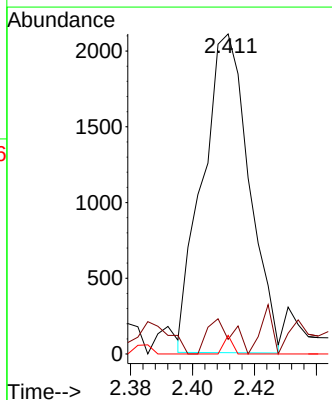
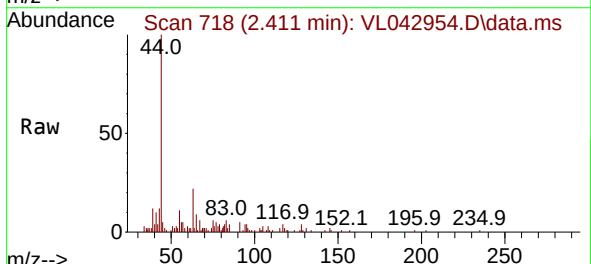
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

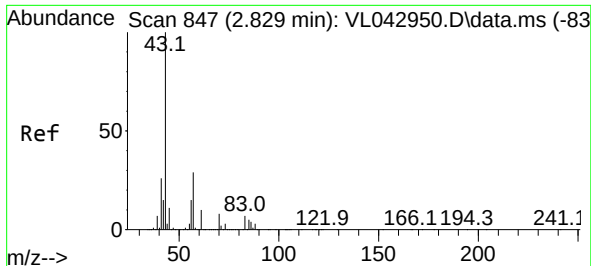
Tgt Ion:	43	Resp:	3599
Ion	Ratio	Lower	Upper
43	100		
86	9.2	6.2	9.2
42	14.0	7.4	11.0#
44	29.2	4.2	6.2#



#24
 1,1-Dichloroethane
 Concen: 0.124 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. 0.006 min
 Lab File: VL042954.D
 Acq: 22 Sep 2025 11:56

Tgt Ion:	63	Resp:	2202
Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.2	6.6
100	5.5	1.4	4.0#

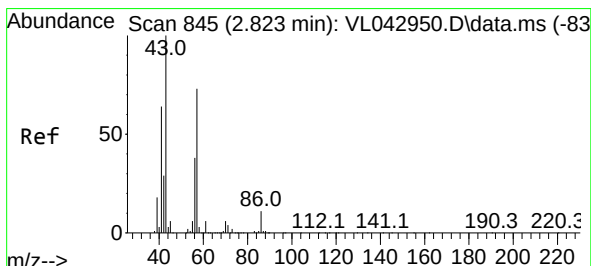
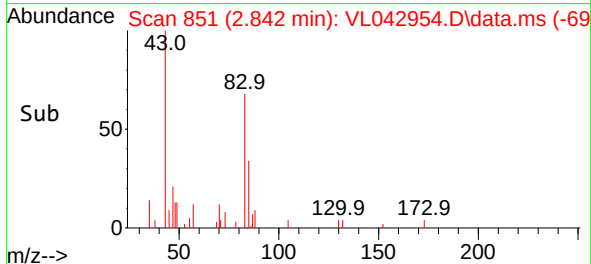
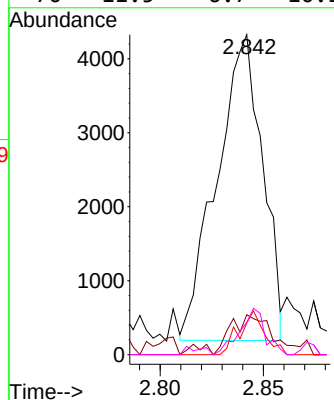
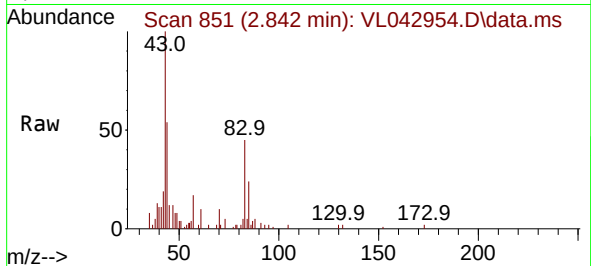




#25
Ethyl Acetate
Concen: 0.118 ppbv
RT: 2.842 min Scan# 847
Delta R.T. 0.013 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

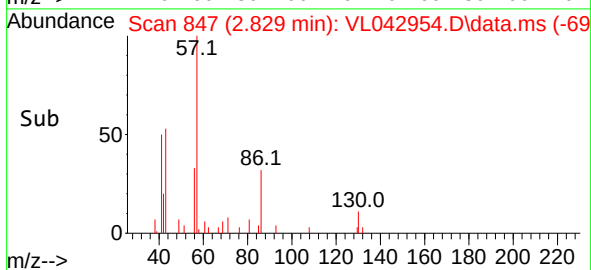
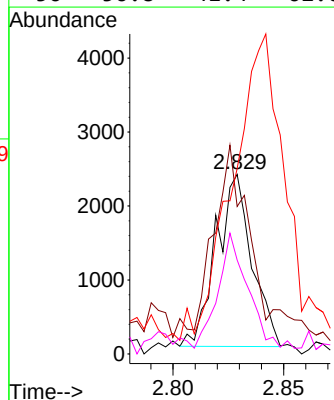
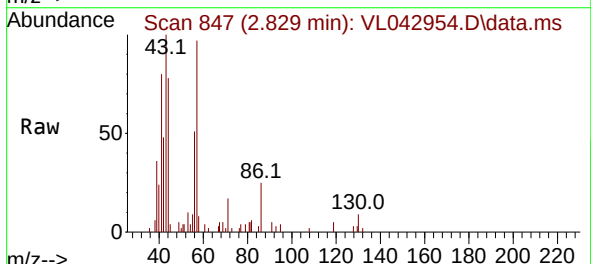
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

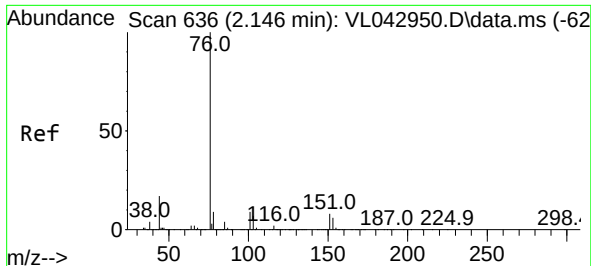
Tgt Ion: 43 Resp: 6357
Ion Ratio Lower Upper
43 100
45 12.5 7.7 11.5#
61 7.8 7.1 10.7
70 11.5 6.7 10.1#



#26
Hexane
Concen: 0.107 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion: 57 Resp: 2622
Ion Ratio Lower Upper
57 100
41 118.9 71.7 107.5#
43 0.0 180.8 271.2#
56 56.8 41.4 62.0





#27

Carbon Disulfide

Concen: 0.108 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.006 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

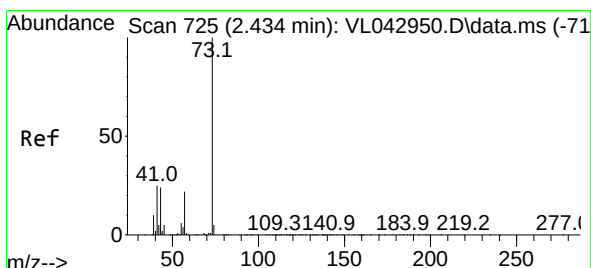
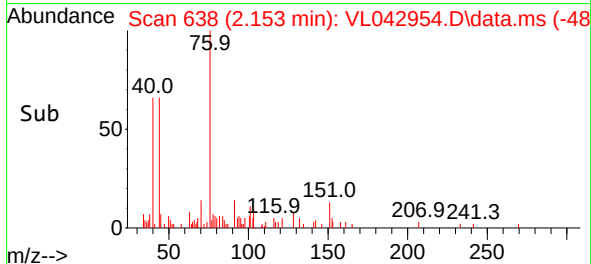
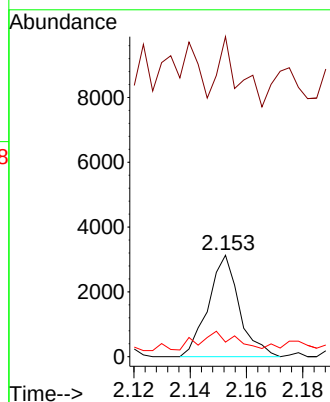
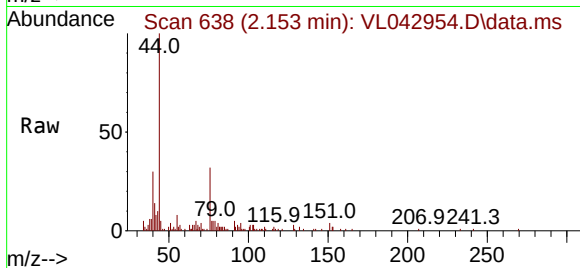
Tgt Ion: 76 Resp: 2391

Ion Ratio Lower Upper

76 100

44 352.2 15.6 23.4#

78 59.1 8.9 13.3#



#28

Methyl tert-Butyl Ether

Concen: 0.092 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.010 min

Lab File: VL042954.D

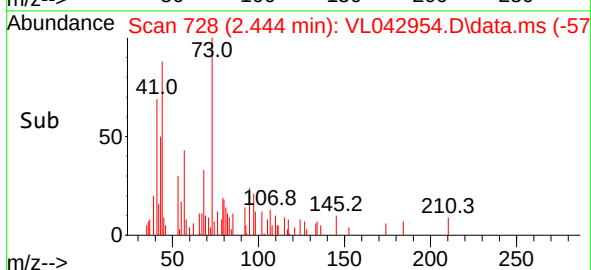
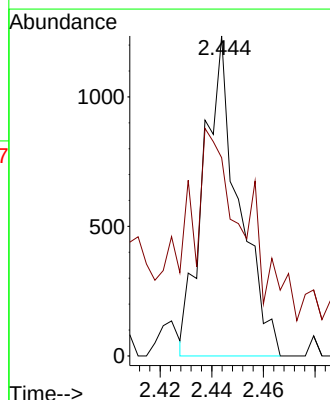
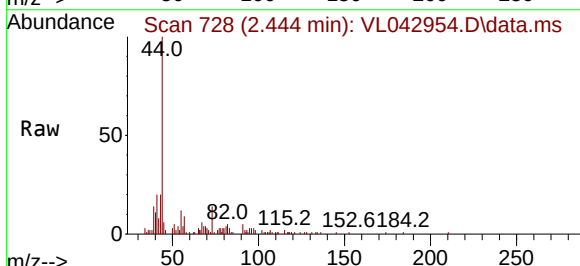
Acq: 22 Sep 2025 11:56

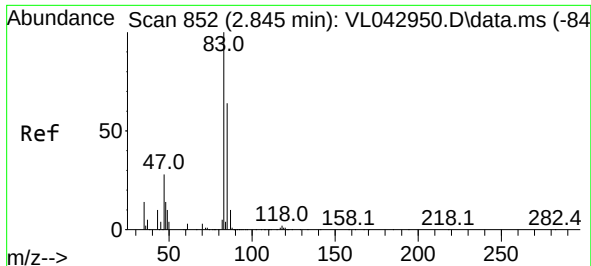
Tgt Ion: 73 Resp: 1171

Ion Ratio Lower Upper

73 100

57 204.3 20.6 31.0#





#29

Chloroform

Concen: 0.107 ppbv

RT: 2.848 min Scan# 853

Delta R.T. 0.003 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Instrument :

MSVOA_1

ClientSampleId :

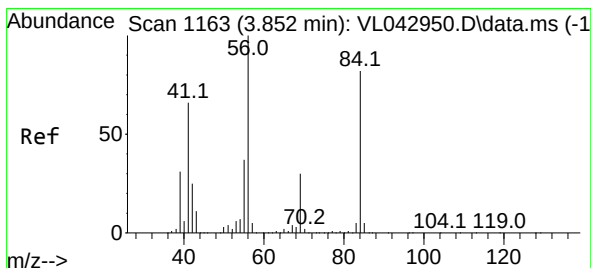
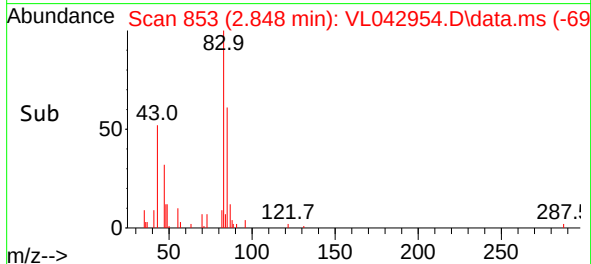
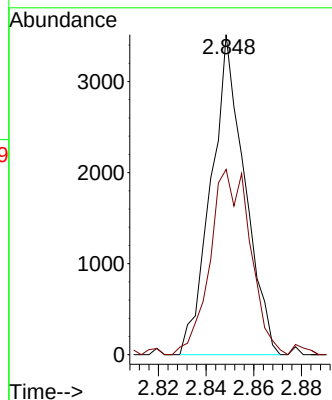
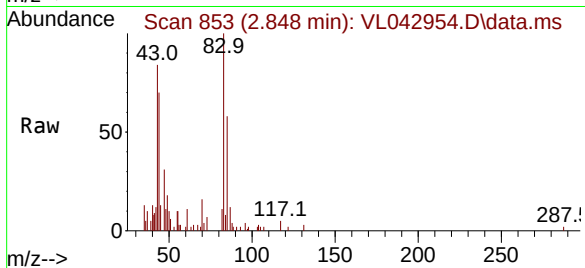
VSTDIC0.1

Tgt Ion: 83 Resp: 3449

Ion Ratio Lower Upper

83 100

85 56.3 51.2 76.8



#30

Cyclohexane

Concen: 0.092 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. 0.010 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

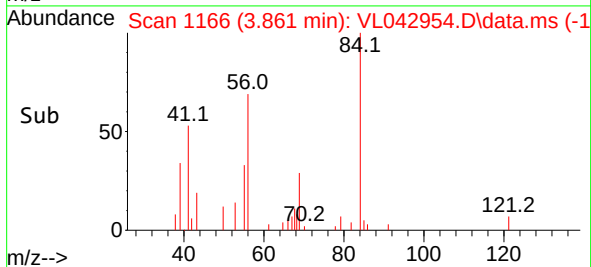
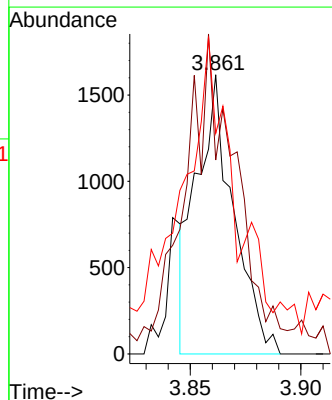
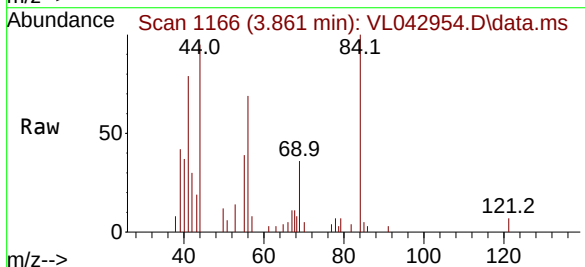
Tgt Ion: 84 Resp: 1880

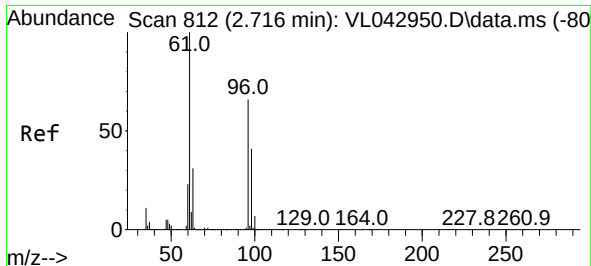
Ion Ratio Lower Upper

84 100

56 169.3 102.2 153.4#

41 164.8 65.6 98.4#

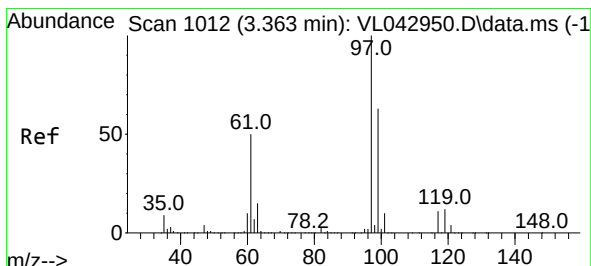
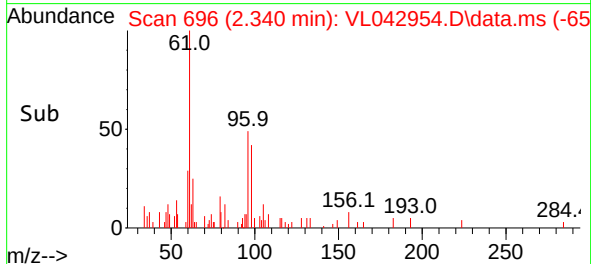
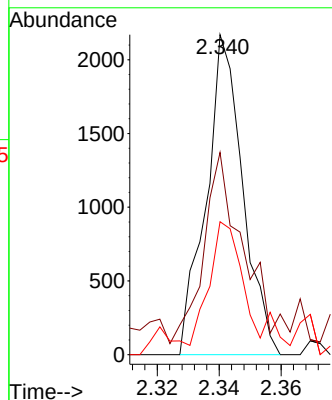
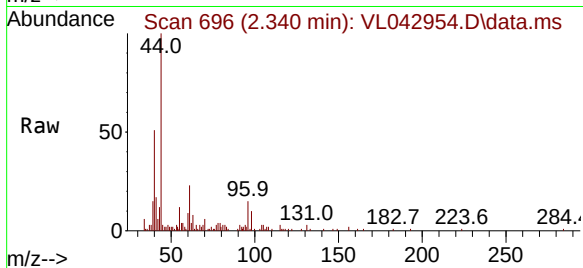




#31
 cis-1,2-Dichloroethene
 Concen: 0.077 ppbv
 RT: 2.340 min Scan# 61
 Delta R.T. -0.376 min
 Lab File: VL042954.D
 Acq: 22 Sep 2025 11:56

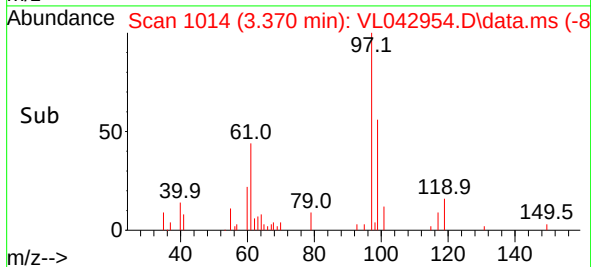
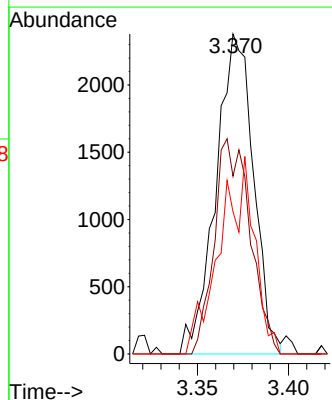
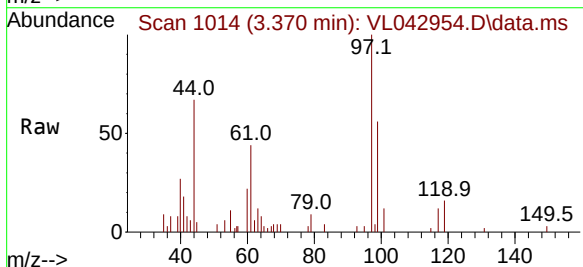
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

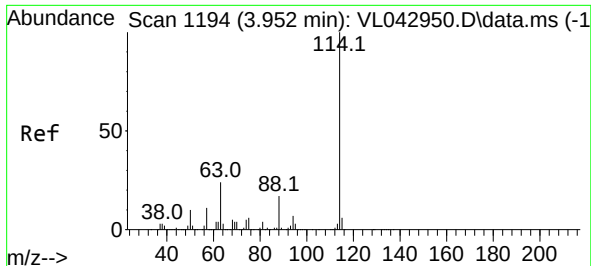
Tgt Ion:	61	Resp:	1780
Ion	Ratio	Lower	Upper
61	100		
96	53.9	53.0	79.6
98	37.3	32.9	49.3



#32
 1,1,1-Trichloroethane
 Concen: 0.098 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.006 min
 Lab File: VL042954.D
 Acq: 22 Sep 2025 11:56

Tgt Ion:	97	Resp:	3418
Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.1	76.7
61	56.2	39.8	59.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

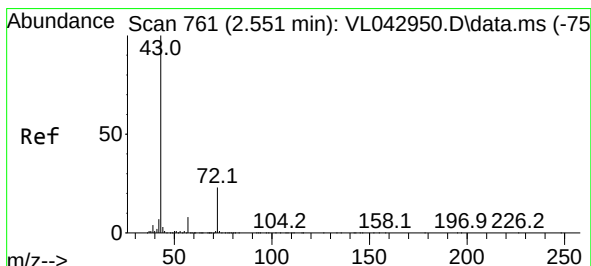
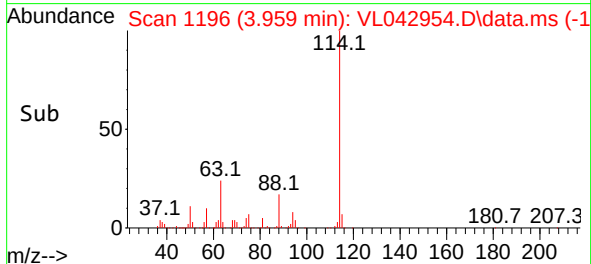
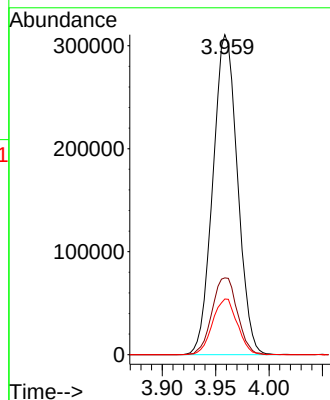
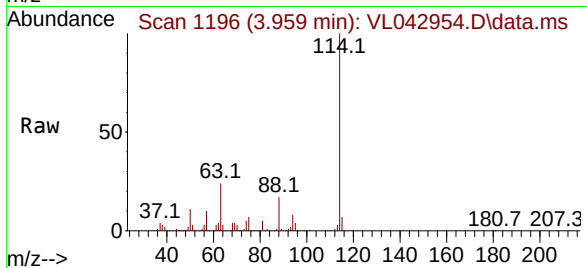
Tgt Ion:114 Resp: 498673

Ion Ratio Lower Upper

114 100

63 24.8 19.4 29.2

88 17.5 14.2 21.2



#34

2-Butanone

Concen: 0.121 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.013 min

Lab File: VL042954.D

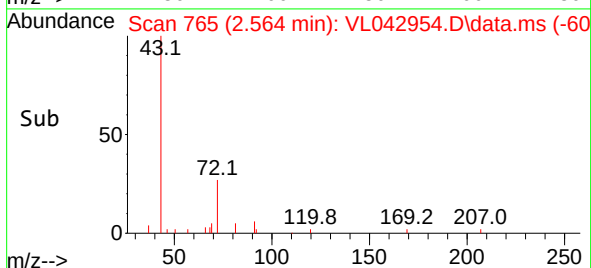
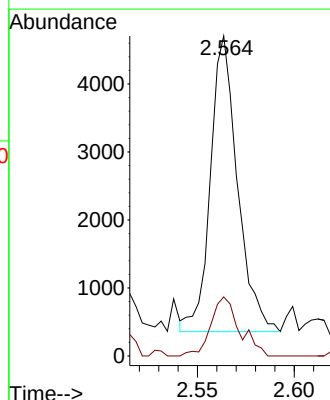
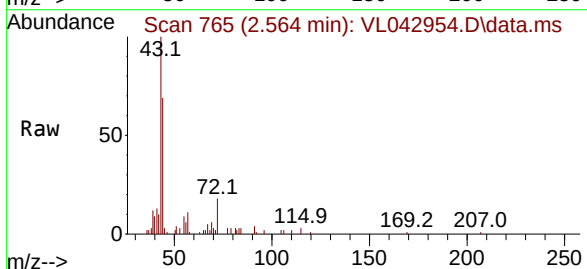
Acq: 22 Sep 2025 11:56

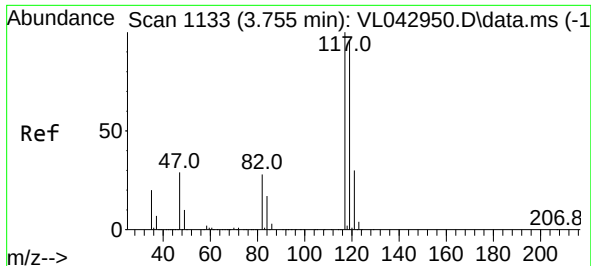
Tgt Ion: 43 Resp: 4230

Ion Ratio Lower Upper

43 100

72 21.1 17.7 26.5

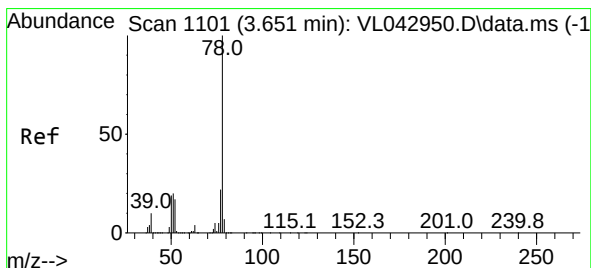
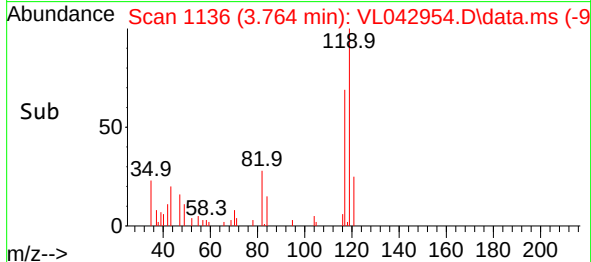
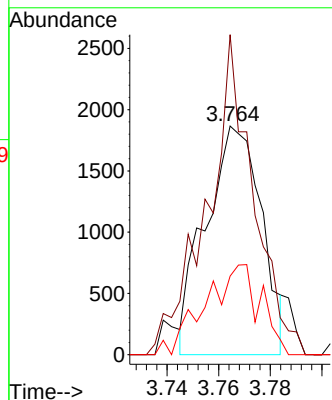
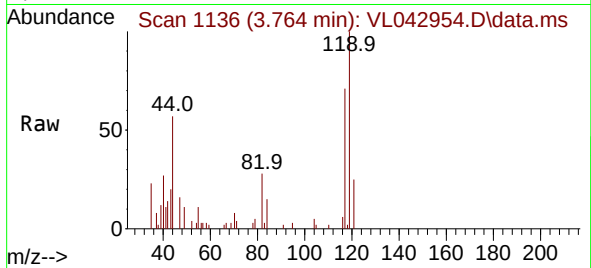




#35
Carbon Tetrachloride
Concen: 0.087 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.010 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

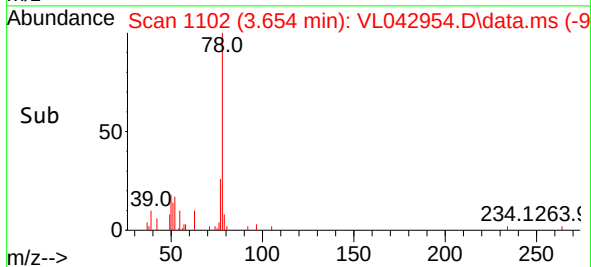
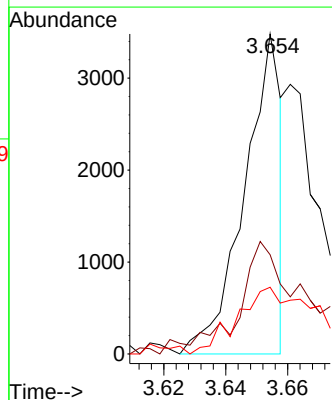
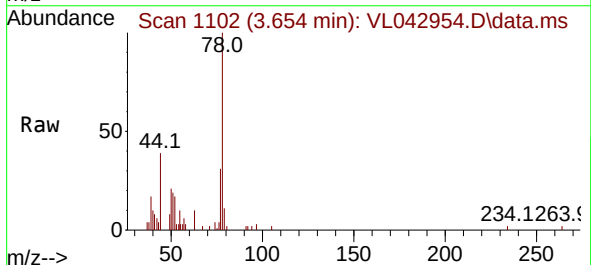
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

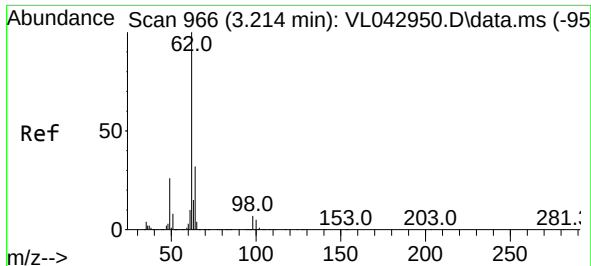
Tgt Ion:117 Resp: 2806
Ion Ratio Lower Upper
117 100
119 139.0 76.9 115.3#
121 31.1 23.7 35.5



#36
Benzene
Concen: 0.061 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion: 78 Resp: 2876
Ion Ratio Lower Upper
78 100
77 27.7 17.8 26.6#
50 18.4 15.0 22.4





#37

1,2-Dichloroethane

Concen: 0.116 ppbv

RT: 3.221 min Scan# 9

Delta R.T. 0.006 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Instrument :

MSVOA_1

ClientSampleId :

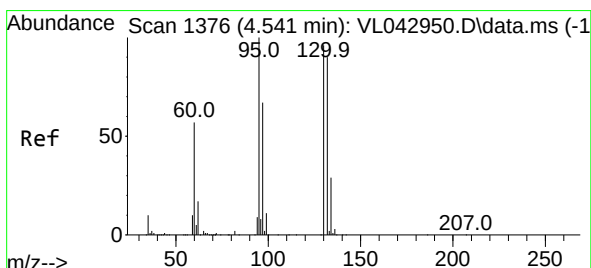
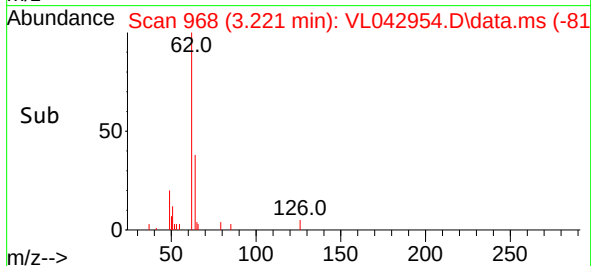
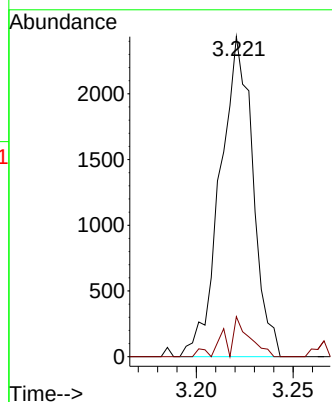
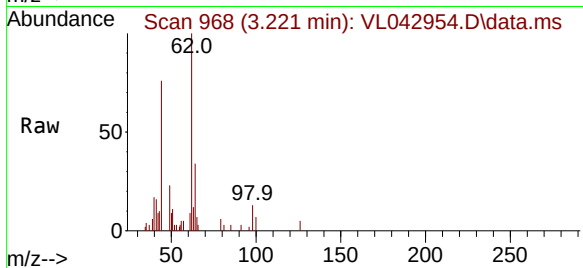
VSTDIC0.1

Tgt Ion: 62 Resp: 2858

Ion Ratio Lower Upper

62 100

98 8.9 5.9 8.9#



#38

Trichloroethene

Concen: 0.020 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. 0.006 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Tgt Ion:130 Resp: 471

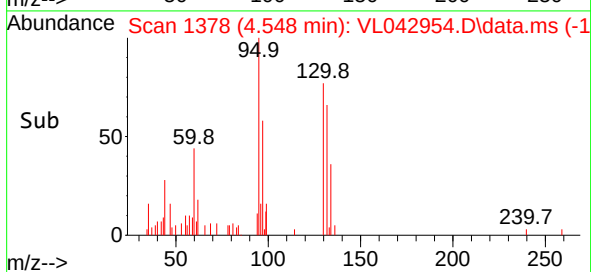
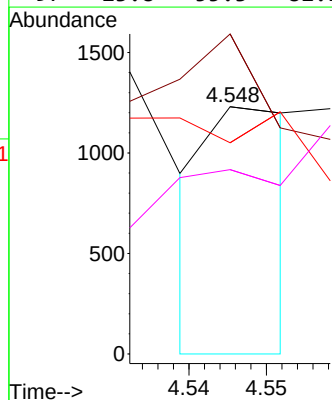
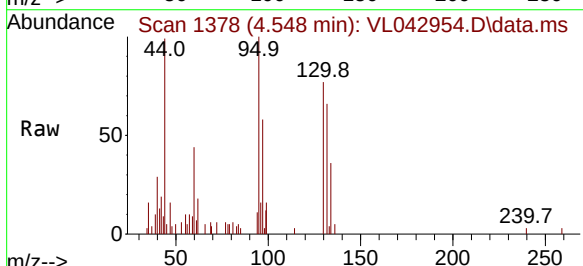
Ion Ratio Lower Upper

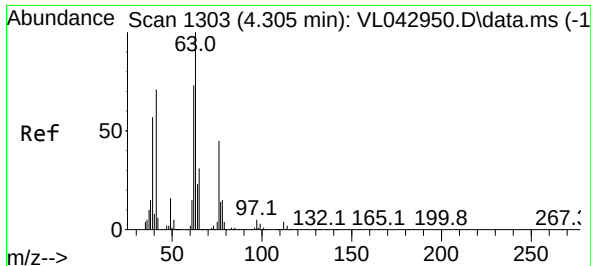
130 100

95 140.7 83.0 124.4#

132 0.0 74.6 112.0#

97 23.8 55.3 82.9#





#39

1,2-Dichloropropane

Concen: 7.230 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.346 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

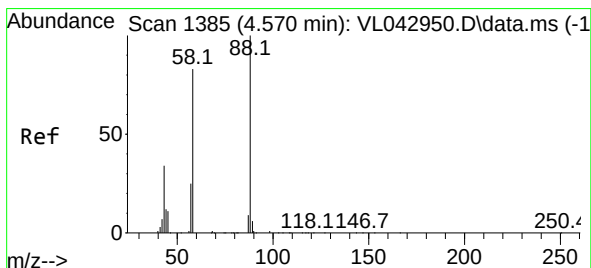
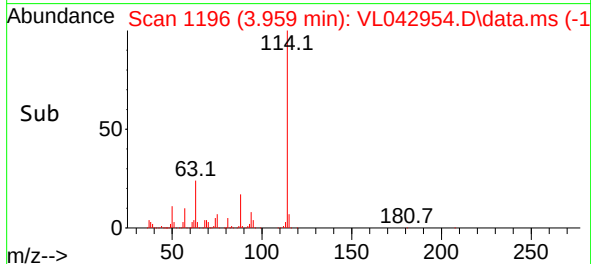
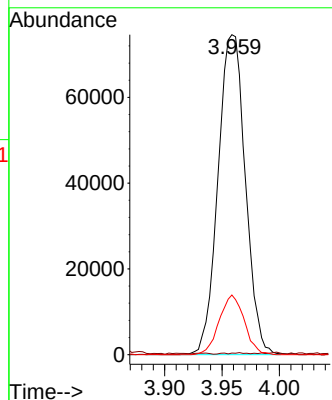
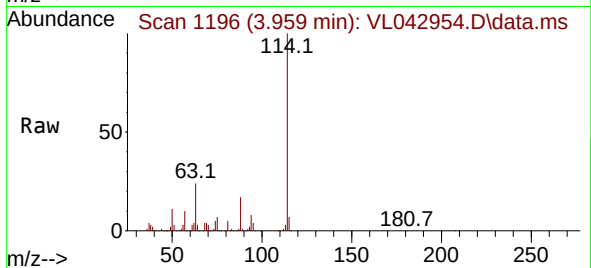
Tgt Ion: 63 Resp: 123686

Ion Ratio Lower Upper

63 100

41 0.1 57.5 86.3#

62 18.7 58.5 87.7#



#40

1,4-Dioxane

Concen: 0.092 ppbv

RT: 4.612 min Scan# 1398

Delta R.T. 0.042 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Tgt Ion: 88 Resp: 732

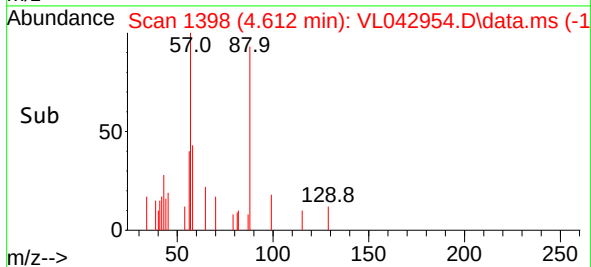
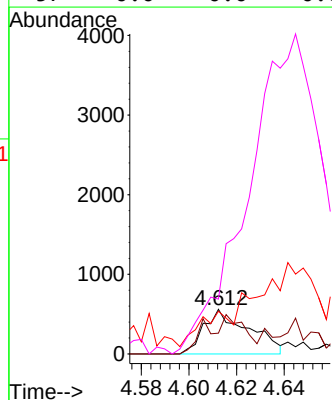
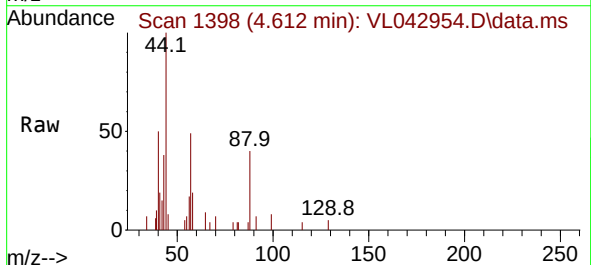
Ion Ratio Lower Upper

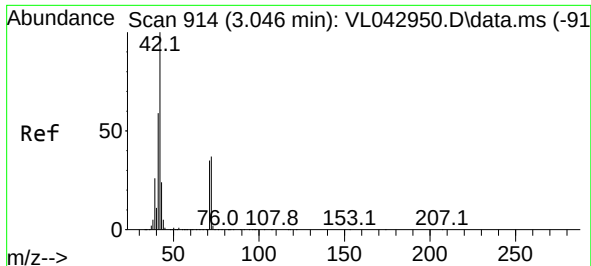
88 100

58 145.8 59.7 89.5#

43 53.4 28.9 43.3#

57 0.0 0.0 0.0

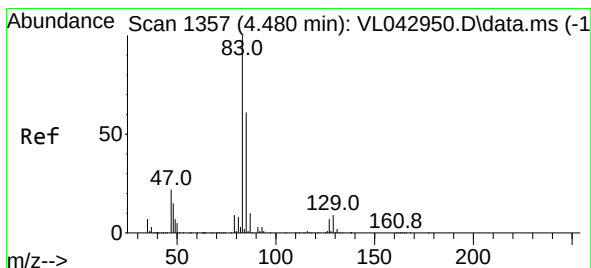
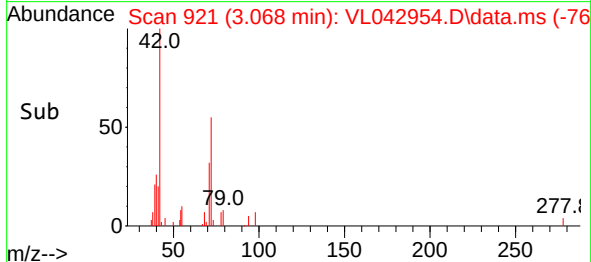
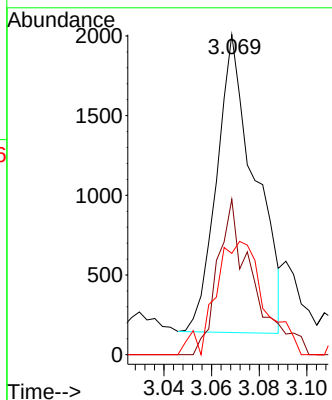
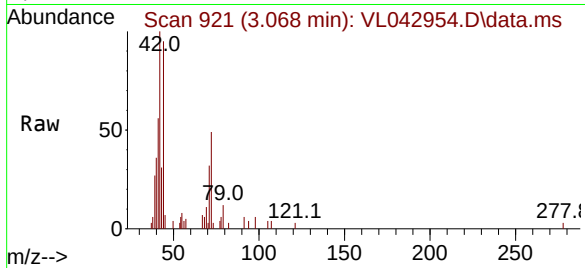




#41
Tetrahydrofuran
Concen: 0.103 ppbv
RT: 3.068 min Scan# 914
Delta R.T. 0.022 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

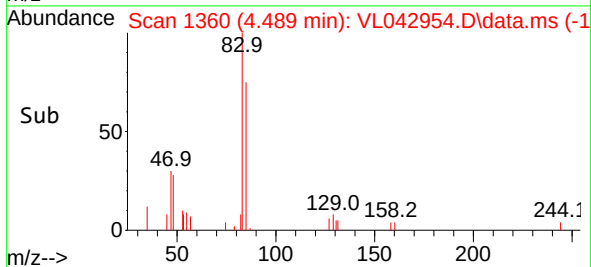
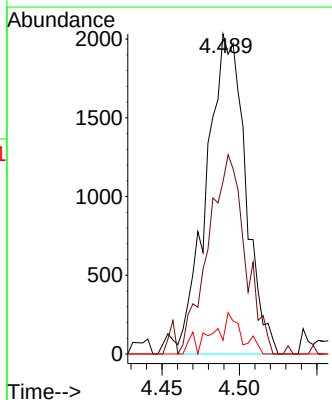
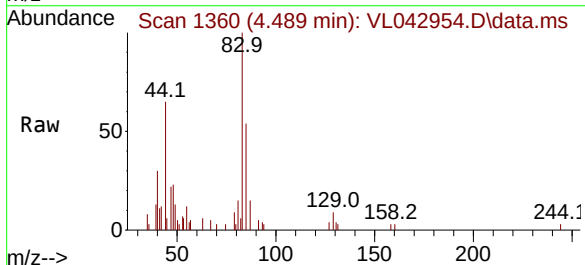
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

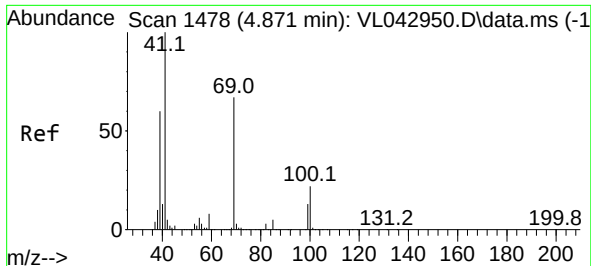
Tgt Ion: 42 Resp: 2075
Ion Ratio Lower Upper
42 100
72 48.9 30.0 45.0#
71 49.2 28.8 43.2#



#42
Bromodichloromethane
Concen: 0.103 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.010 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion: 83 Resp: 3539
Ion Ratio Lower Upper
83 100
85 53.8 49.0 73.6
127 4.2 5.3 7.9#

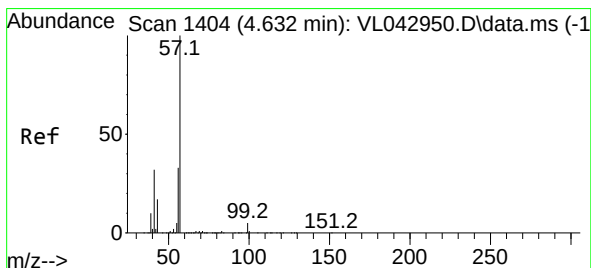
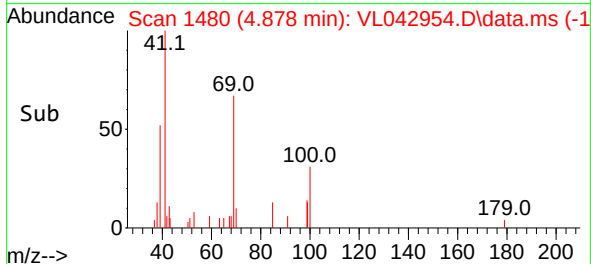
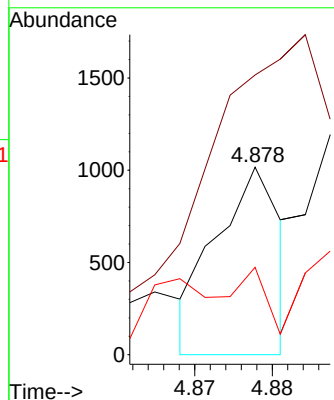
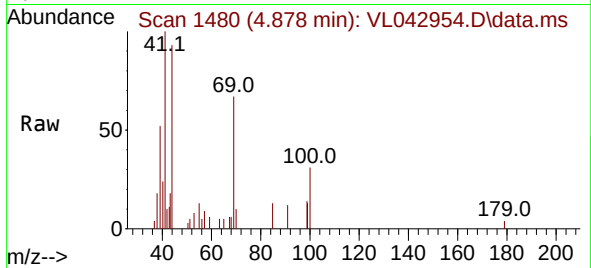




#43
Methyl Methacrylate
Concen: 0.031 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

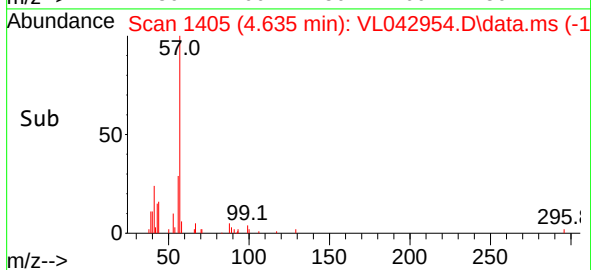
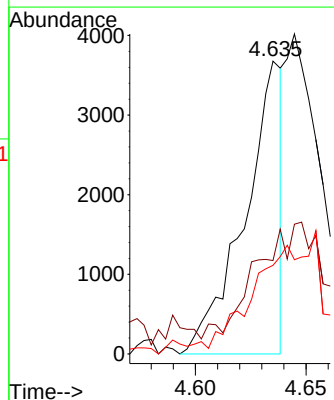
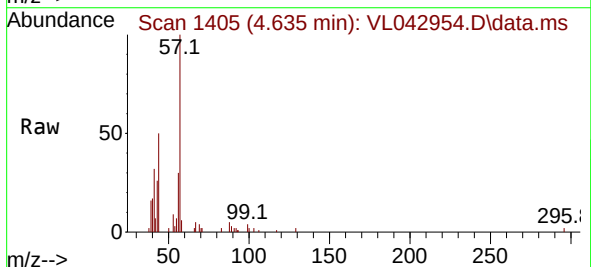
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

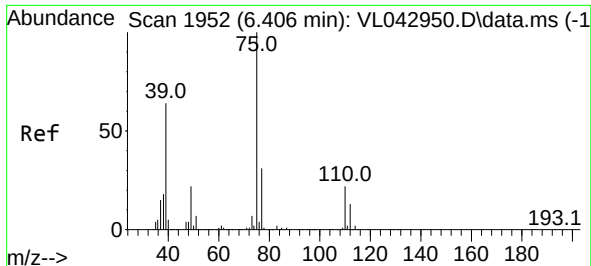
Tgt Ion: 69 Resp: 589
Ion Ratio Lower Upper
69 100
41 0.0 124.5 186.7#
100 0.0 29.0 43.6#



#44
2,2,4-Trimethylpentane
Concen: 0.053 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.003 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion: 57 Resp: 4291
Ion Ratio Lower Upper
57 100
41 0.0 25.5 38.3#
56 0.0 25.8 38.8#





#45

t-1,3-Dichloropropene

Concen: 0.049 ppbv

RT: 6.418 min Scan# 1952

Delta R.T. 0.013 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Instrument :

MSVOA_1

ClientSampleId :

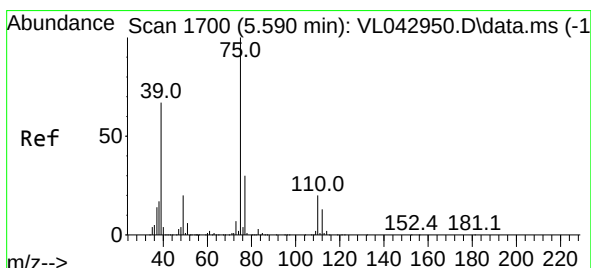
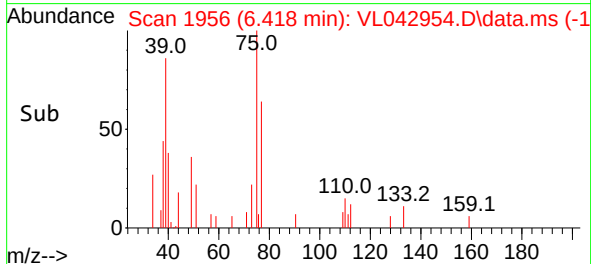
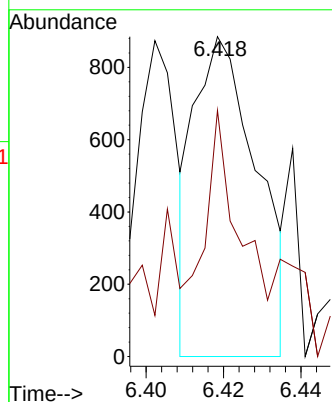
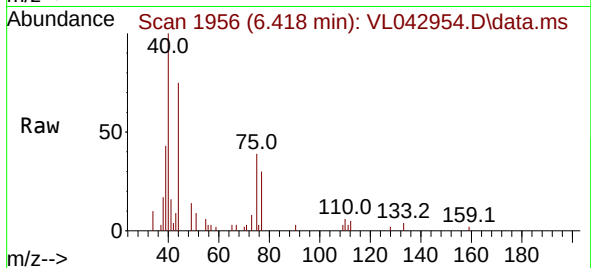
VSTDIC0.1

Tgt Ion: 75 Resp: 999

Ion Ratio Lower Upper

75 100

77 71.7 25.0 37.4#



#46

cis-1,3-Dichloropropene

Concen: 0.060 ppbv

RT: 5.596 min Scan# 1702

Delta R.T. 0.006 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

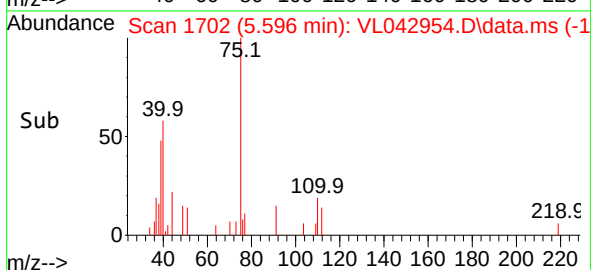
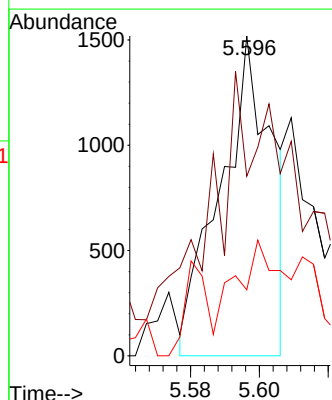
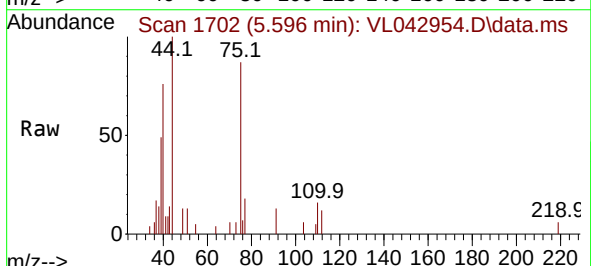
Tgt Ion: 75 Resp: 1566

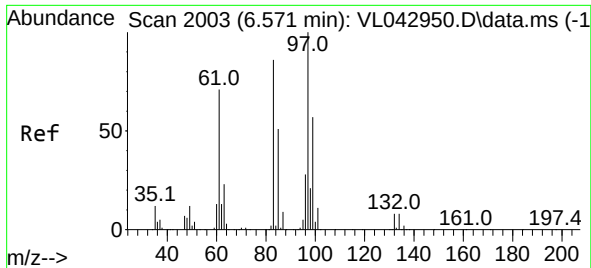
Ion Ratio Lower Upper

75 100

39 30.6 53.8 80.6#

77 15.7 23.6 35.4#

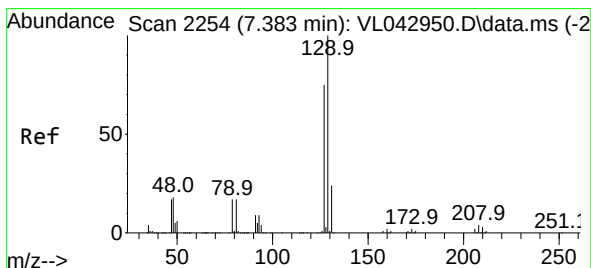
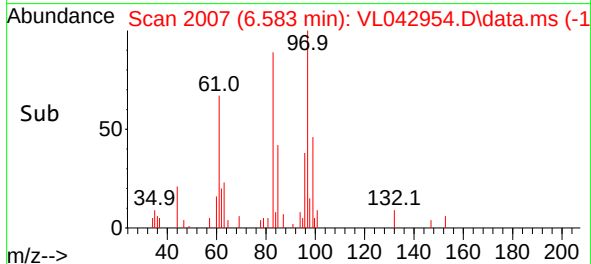
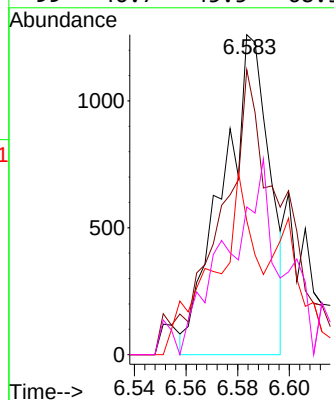
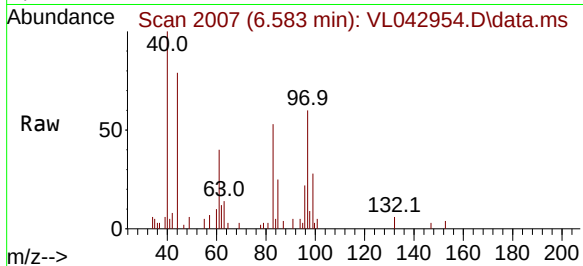




#47
 1,1,2-Trichloroethane
 Concen: 0.088 ppbv
 RT: 6.583 min Scan# 20
 Delta R.T. 0.013 min
 Lab File: VL042954.D
 Acq: 22 Sep 2025 11:56

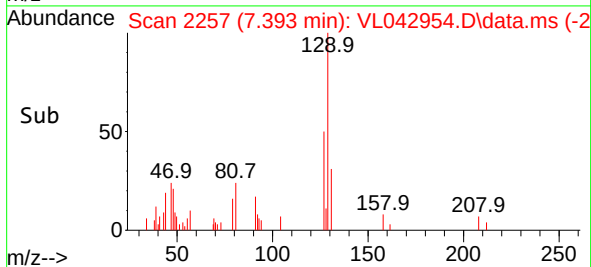
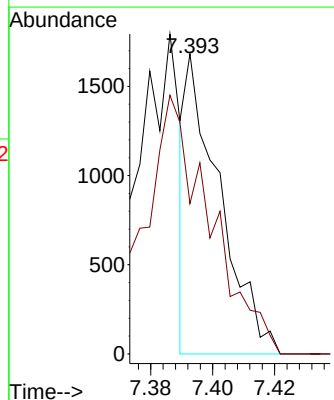
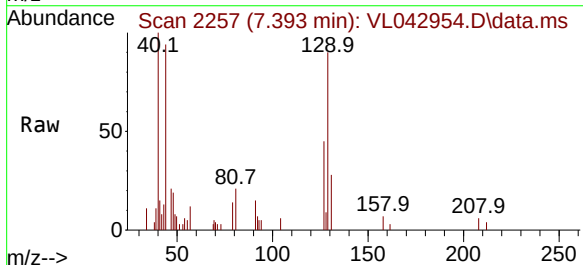
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

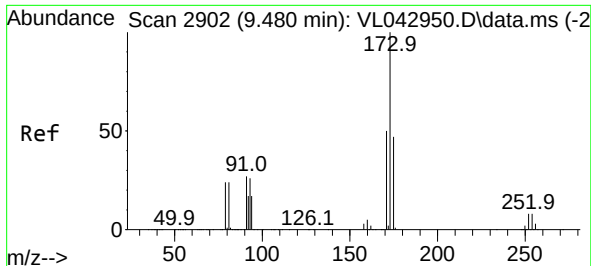
Tgt Ion:	97	Resp:	1588
Ion	Ratio	Lower	Upper
97	100		
83	70.1	68.7	103.1
85	23.1	40.6	60.8#
99	46.7	45.5	68.3



#48
 Dibromochloromethane
 Concen: 0.044 ppbv
 RT: 7.393 min Scan# 2257
 Delta R.T. 0.010 min
 Lab File: VL042954.D
 Acq: 22 Sep 2025 11:56

Tgt Ion:	129	Resp:	1273
Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.1	117.2#

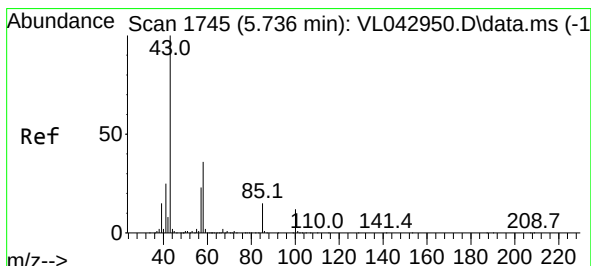
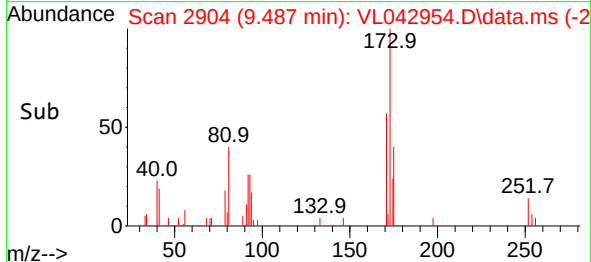
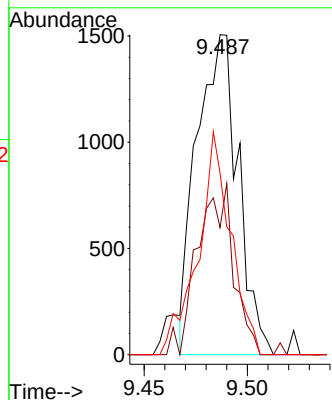
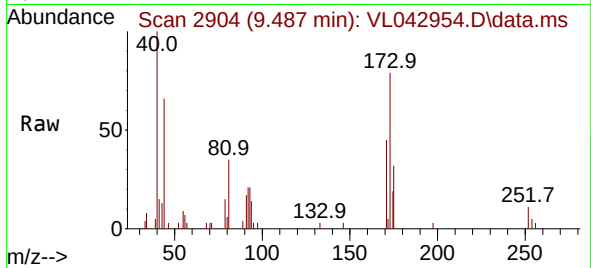




#49
Bromoform
Concen: 0.084 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

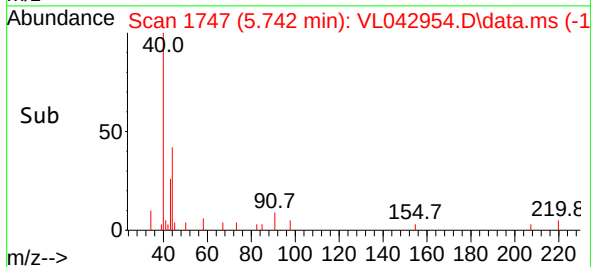
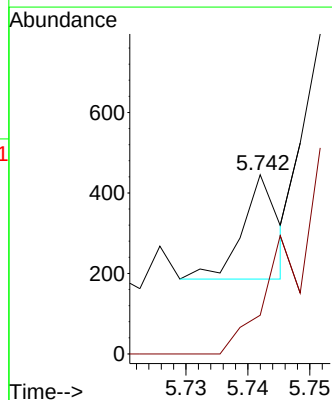
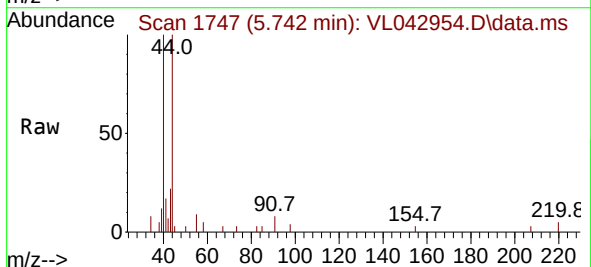
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

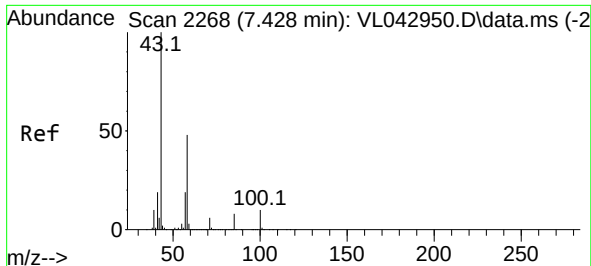
Tgt Ion:173 Resp: 2105
Ion Ratio Lower Upper
173 100
175 46.7 37.9 56.9
171 54.8 41.1 61.7



#50
4-Methyl-2-Pentanone
Concen: 0.002 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion: 43 Resp: 104
Ion Ratio Lower Upper
43 100
58 0.0 28.4 42.6#

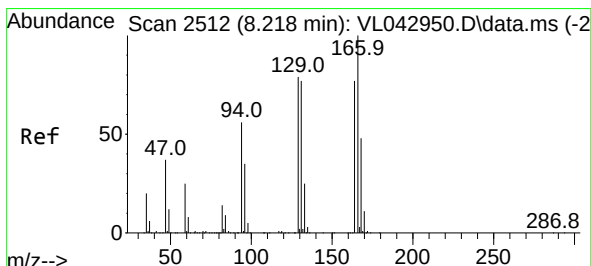
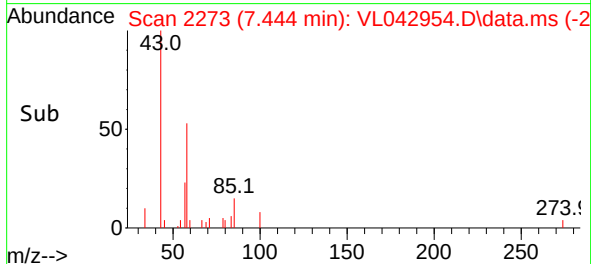
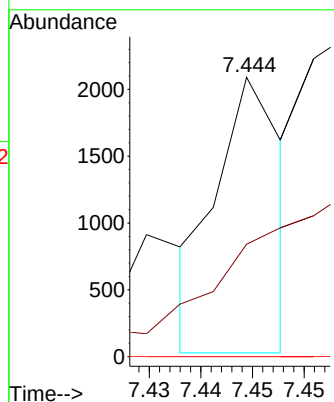
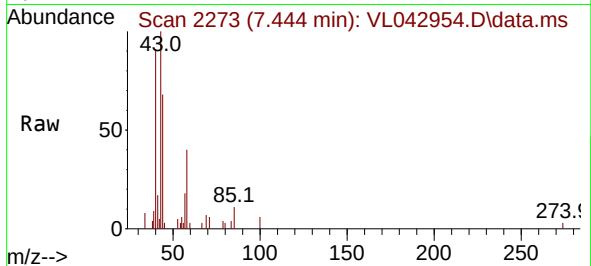




#51
2-Hexanone
Concen: 0.025 ppbv
RT: 7.444 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

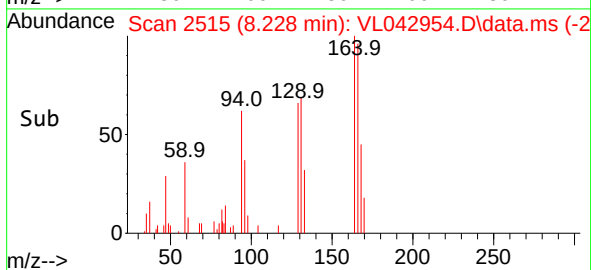
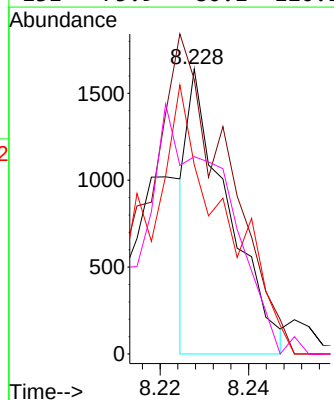
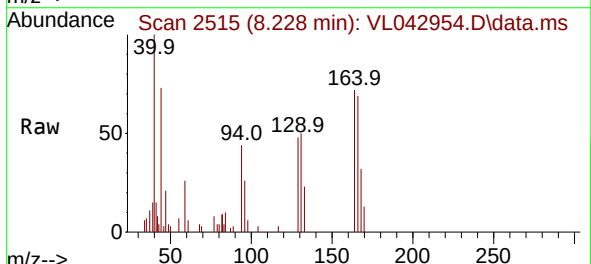
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

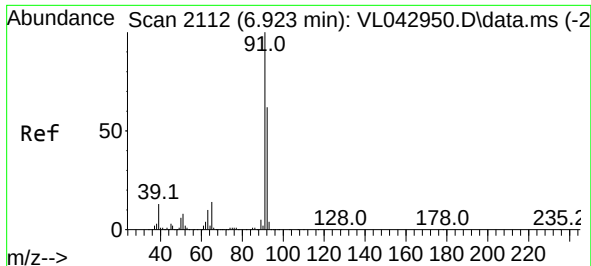
Tgt Ion: 43 Resp: 921
Ion Ratio Lower Upper
43 100
58 0.0 39.7 59.5#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.056 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.010 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion: 164 Resp: 1022
Ion Ratio Lower Upper
164 100
166 92.3 103.5 155.3#
129 61.7 82.2 123.4#
131 75.9 80.1 120.1#

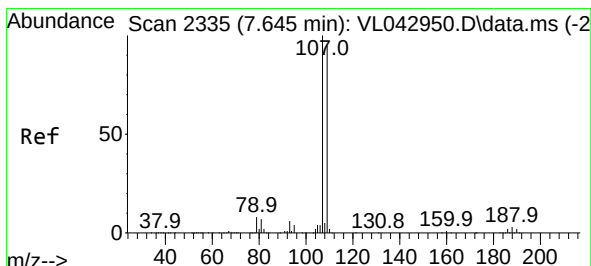
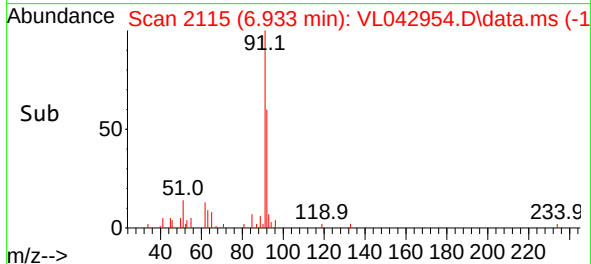
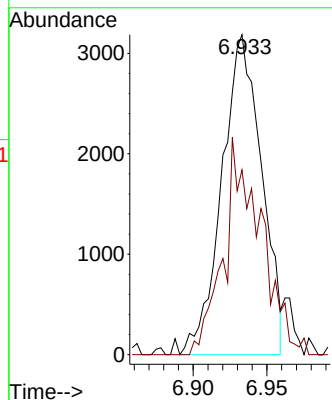
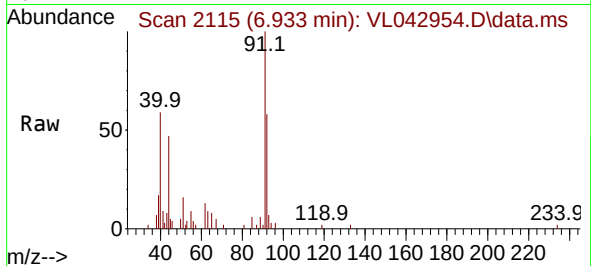




#53
Toluene
Concen: 0.108 ppbv
RT: 6.933 min Scan# 2112
Delta R.T. 0.010 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

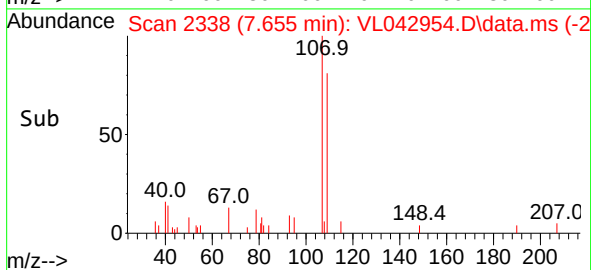
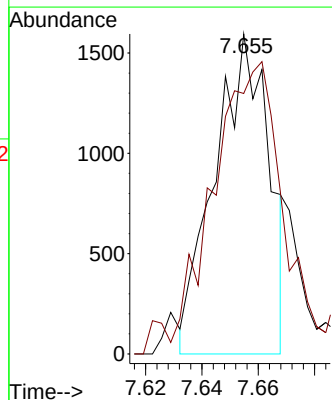
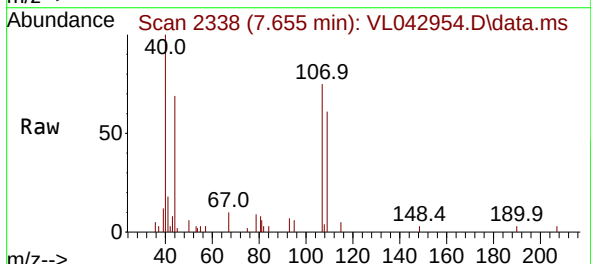
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

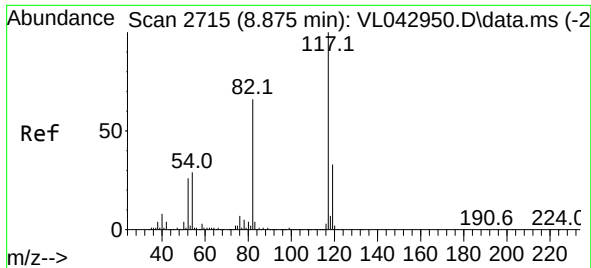
Tgt Ion: 91 Resp: 5973
Ion Ratio Lower Upper
91 100
92 63.4 48.2 72.2



#54
1,2-Dibromoethane
Concen: 0.084 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.010 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion: 107 Resp: 2129
Ion Ratio Lower Upper
107 100
109 76.4 75.8 113.8

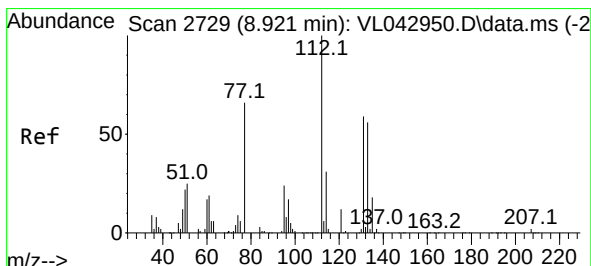
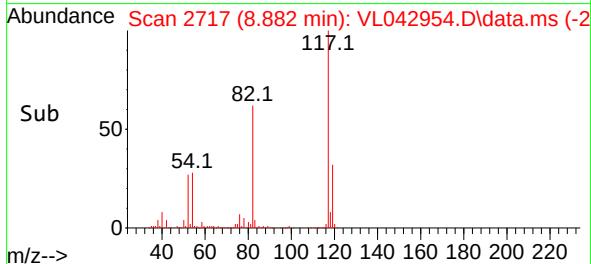
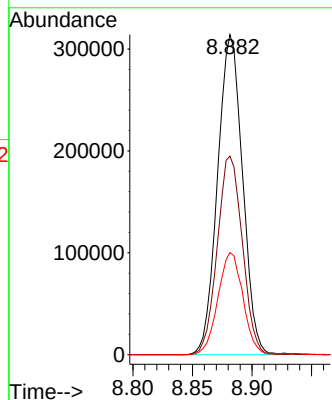
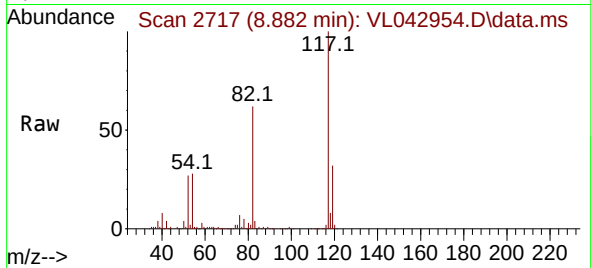




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

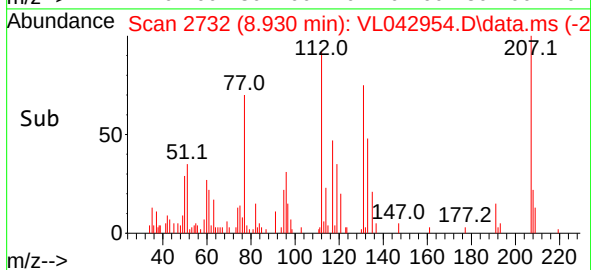
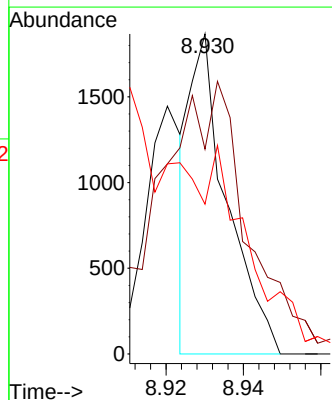
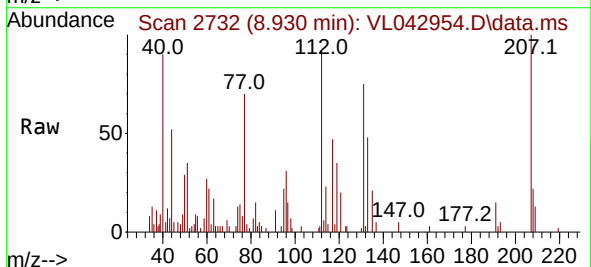
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

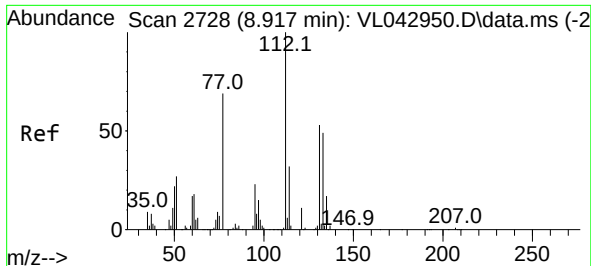
Tgt Ion:117 Resp: 457171
Ion Ratio Lower Upper
117 100
82 62.3 52.8 79.2
119 32.3 26.5 39.7



#56
1,1,1,2-Tetrachloroethane
Concen: 0.057 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.010 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion:131 Resp: 1250
Ion Ratio Lower Upper
131 100
133 208.2 76.6 114.8#
119 0.0 49.9 74.9#

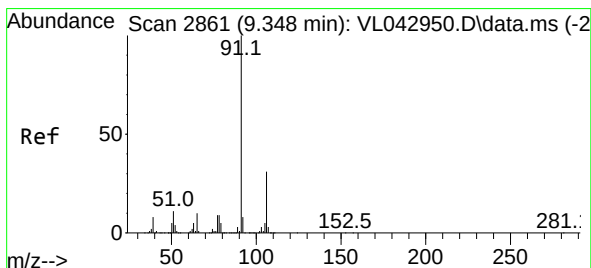
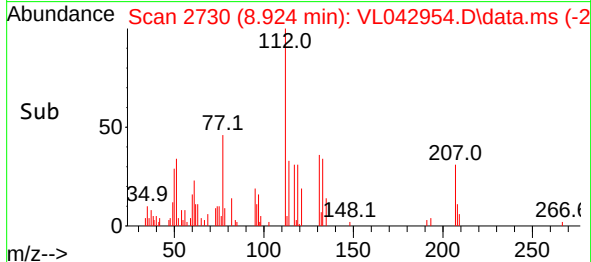
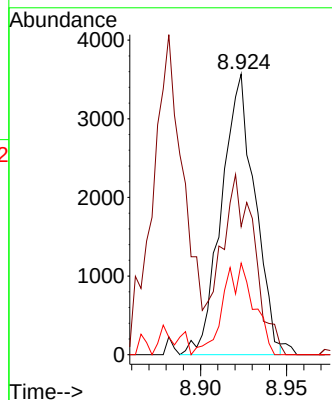
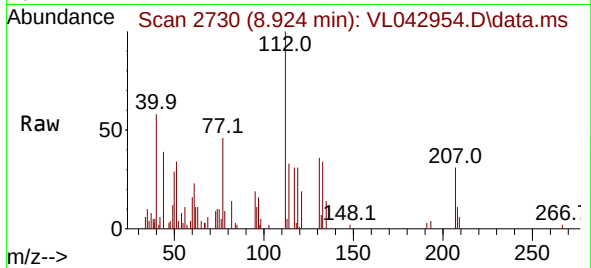




#57
Chlorobenzene
Concen: 0.115 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

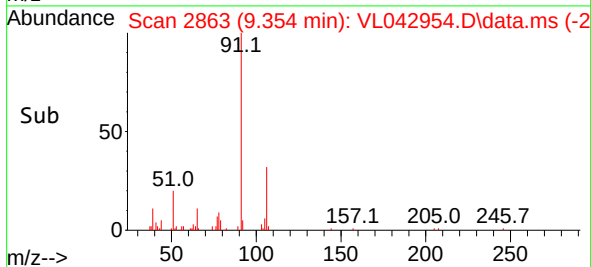
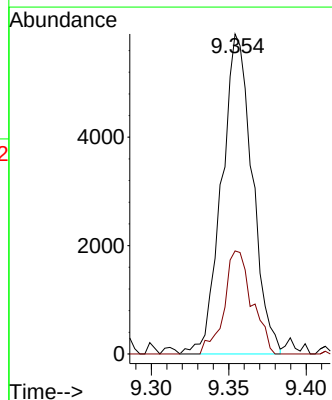
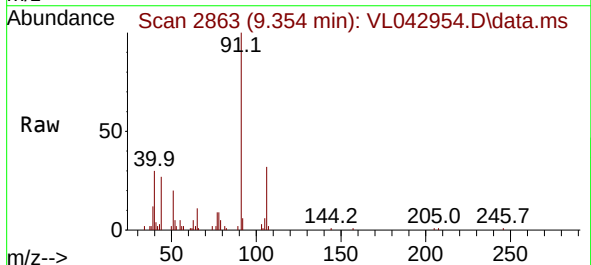
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

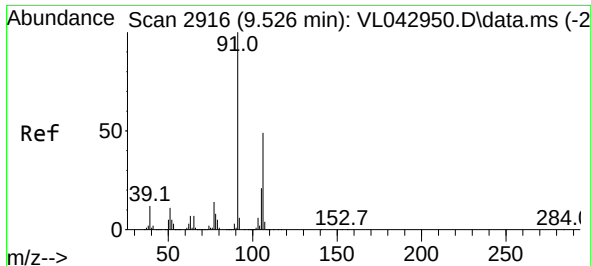
Tgt Ion:112 Resp: 4812
Ion Ratio Lower Upper
112 100
77 40.2 55.7 83.5#
114 32.6 28.6 35.0



#58
Ethyl Benzene
Concen: 0.108 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion: 91 Resp: 8123
Ion Ratio Lower Upper
91 100
106 32.2 24.6 37.0





#59

m/p-Xylene

Concen: 0.120 ppbv

RT: 9.532 min Scan# 2916

Delta R.T. 0.006 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Instrument :

MSVOA_1

ClientSampleId :

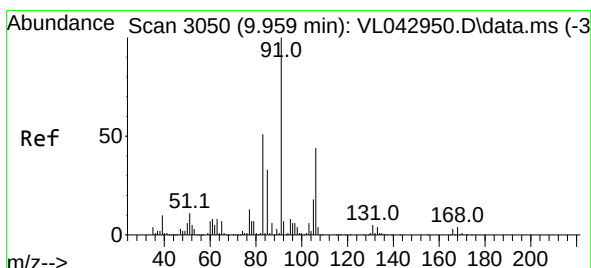
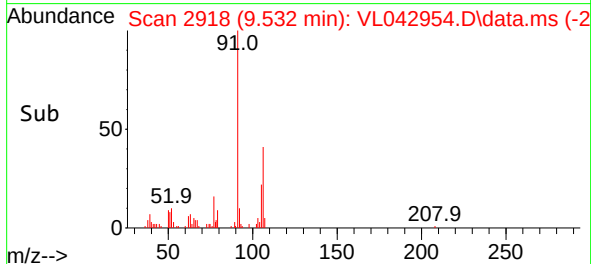
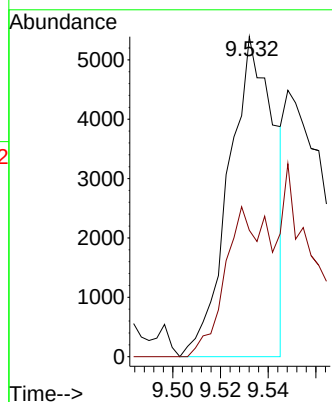
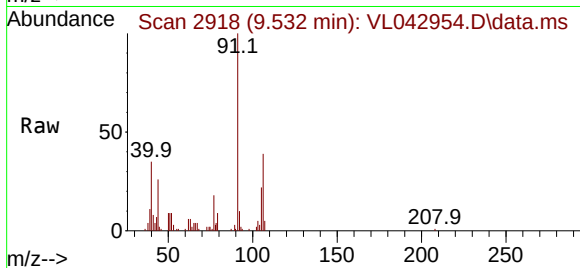
VSTDIC0.1

Tgt Ion: 91 Resp: 7134

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 0.102 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.006 min

Lab File: VL042954.D

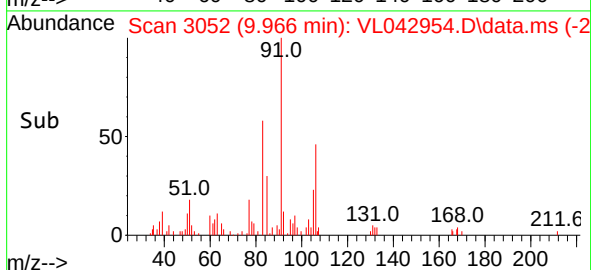
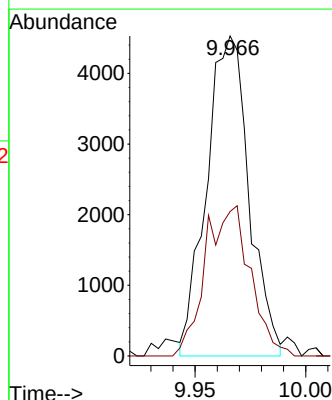
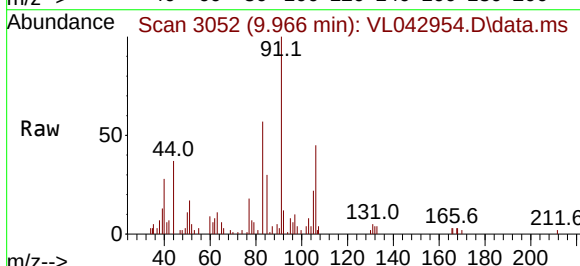
Acq: 22 Sep 2025 11:56

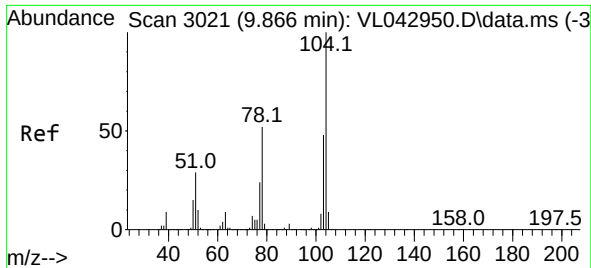
Tgt Ion: 91 Resp: 6052

Ion Ratio Lower Upper

91 100

106 49.6 22.4 67.0

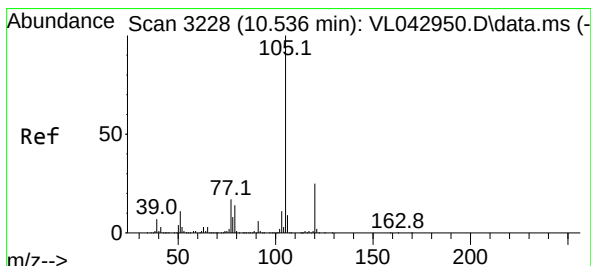
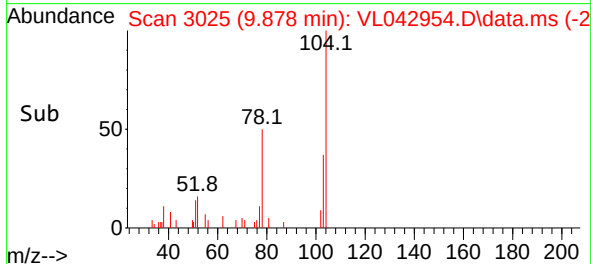
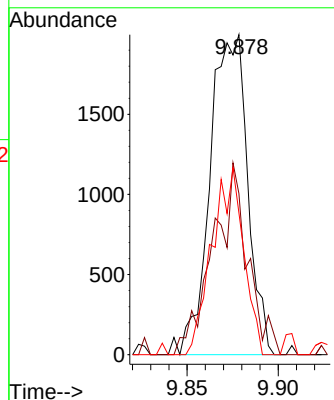
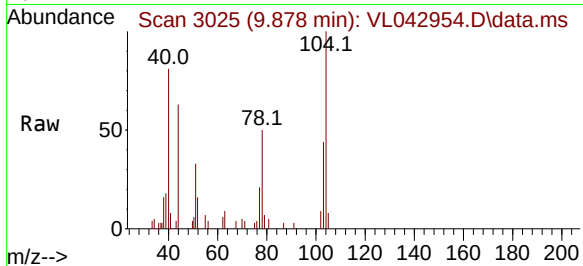




#61
Styrene
Concen: 0.102 ppbv
RT: 9.878 min Scan# 3021
Delta R.T. 0.013 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

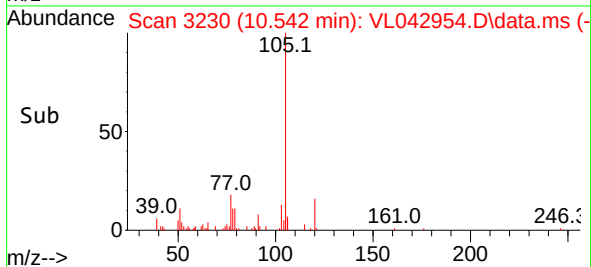
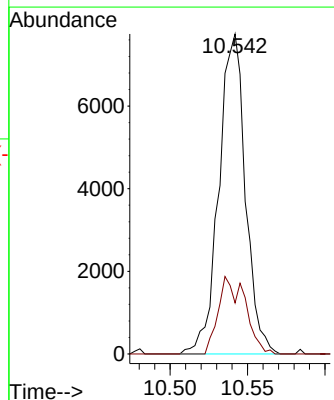
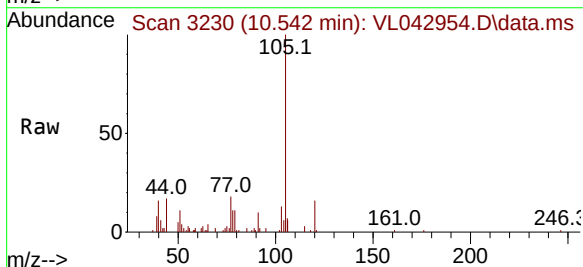
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

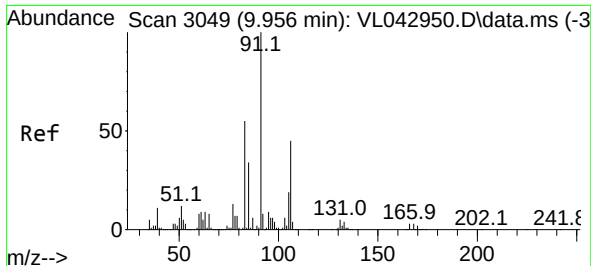
Tgt Ion:104 Resp: 2851
Ion Ratio Lower Upper
104 100
78 55.8 39.9 59.9
103 52.2 36.9 55.3



#62
Isopropylbenzene
Concen: 0.105 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion:105 Resp: 9236
Ion Ratio Lower Upper
105 100
120 24.6 20.6 30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.106 ppbv

RT: 9.966 min Scan# 3049

Delta R.T. 0.010 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

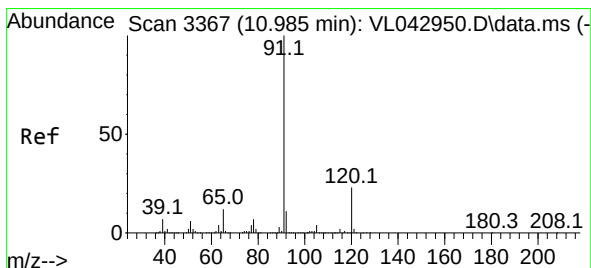
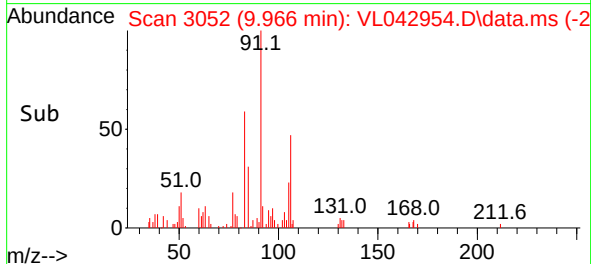
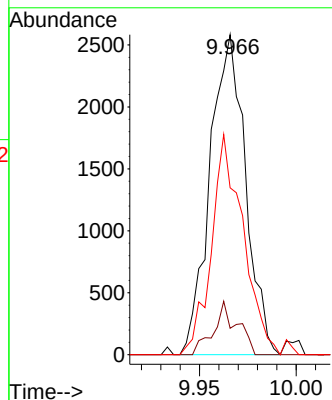
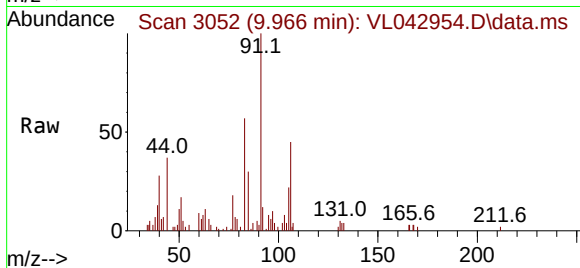
Tgt Ion: 83 Resp: 3301

Ion Ratio Lower Upper

83 100

131 11.1 4.8 14.4

85 62.2 32.2 96.6



#64

n-propylbenzene

Concen: 0.107 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. 0.003 min

Lab File: VL042954.D

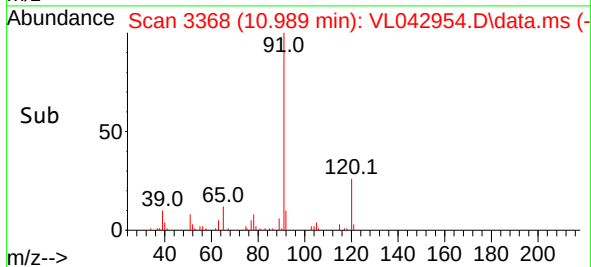
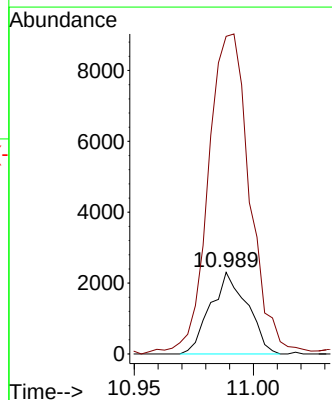
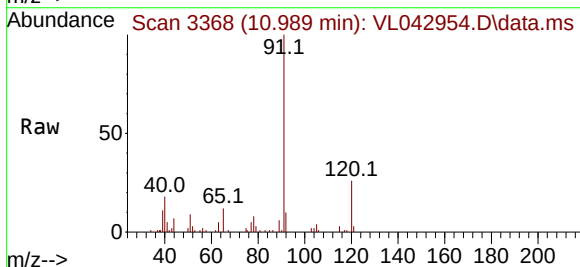
Acq: 22 Sep 2025 11:56

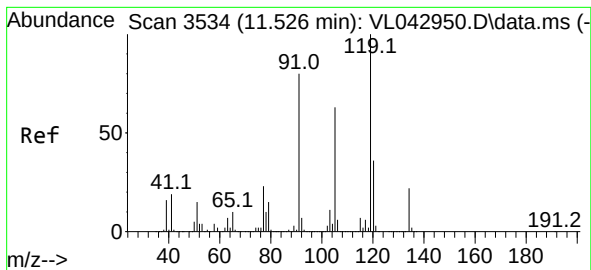
Tgt Ion: 120 Resp: 2475

Ion Ratio Lower Upper

120 100

91 443.6 364.9 547.3

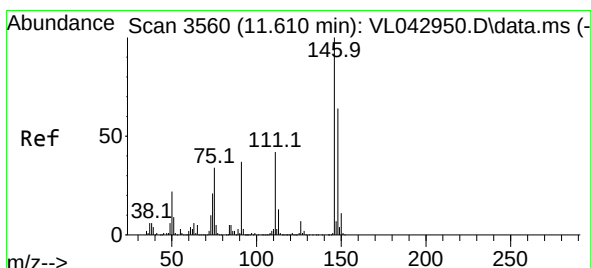
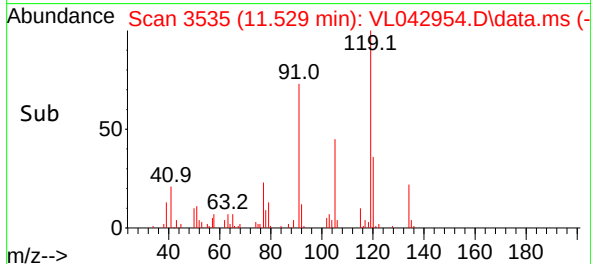
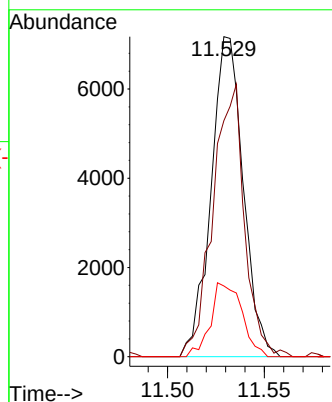
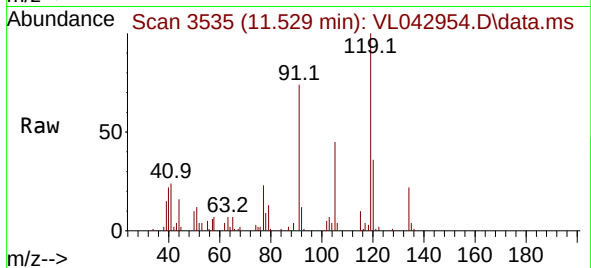




#65
tert-Butylbenzene
Concen: 0.106 ppbv
RT: 11.529 min Scan# 3534
Delta R.T. 0.003 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

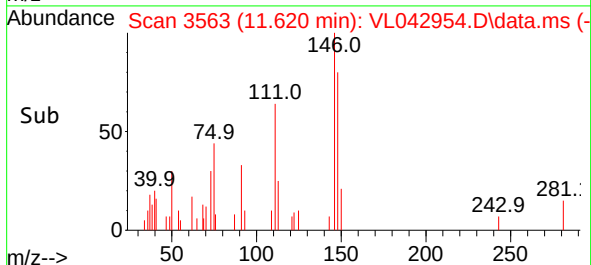
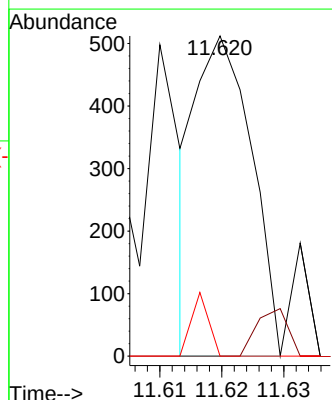
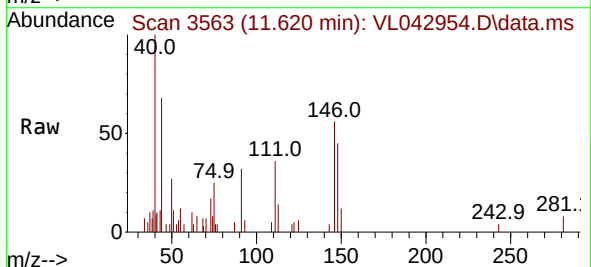
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

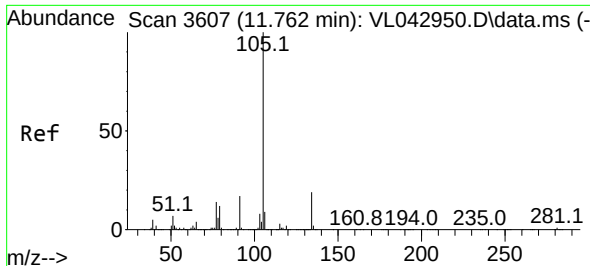
Tgt Ion:119 Resp: 8306
Ion Ratio Lower Upper
119 100
91 83.6 63.1 94.7
134 22.3 17.0 25.6



#66
Benzyl Chloride
Concen: 0.039 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.010 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion: 91 Resp: 318
Ion Ratio Lower Upper
91 100
126 0.0 14.6 21.8#
128 0.0 5.0 7.4#





#67

sec-Butylbenzene

Concen: 0.106 ppbv

RT: 11.769 min Scan# 3

Delta R.T. 0.006 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Instrument :

MSVOA_1

ClientSampleId :

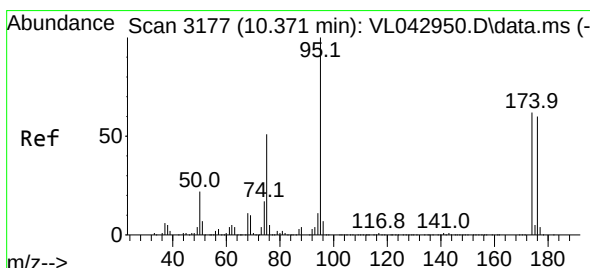
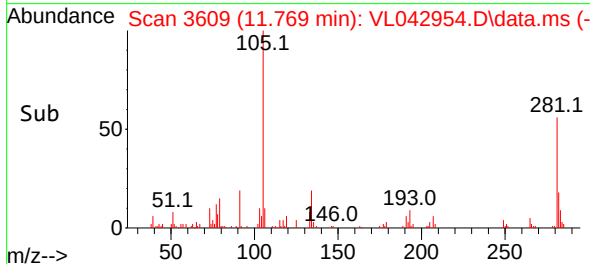
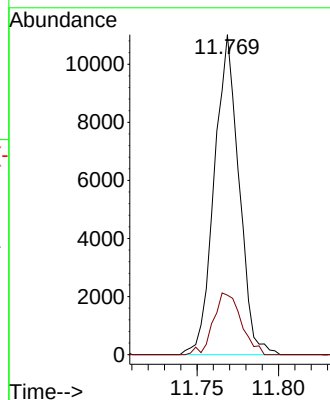
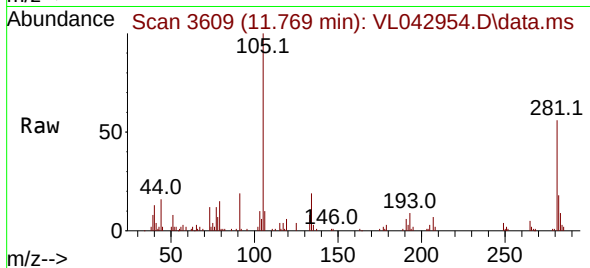
VSTDIC0.1

Tgt Ion:105 Resp: 11601

Ion Ratio Lower Upper

105 100

134 21.7 15.7 23.5



#68

1-Bromo-4-Fluorobenzene

Concen: 9.881 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.006 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

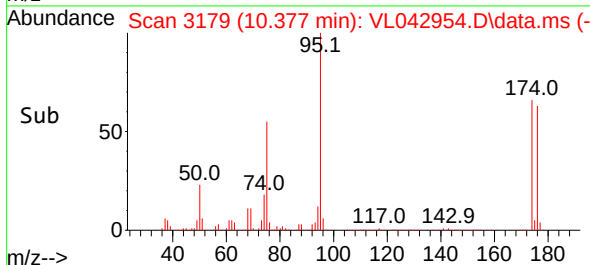
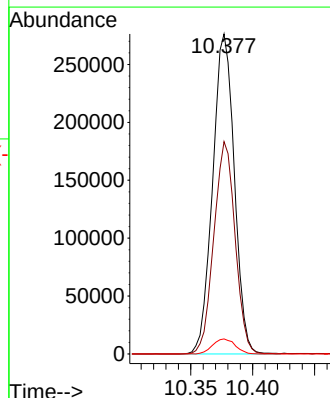
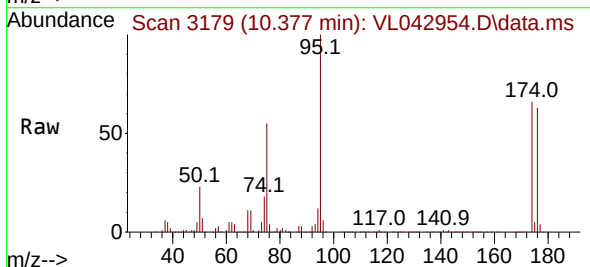
Tgt Ion: 95 Resp: 337196

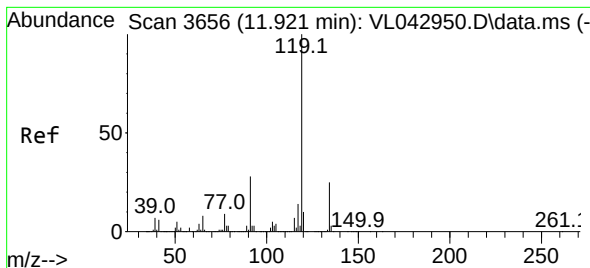
Ion Ratio Lower Upper

95 100

174 65.1 51.4 77.2

175 4.9 4.0 6.0

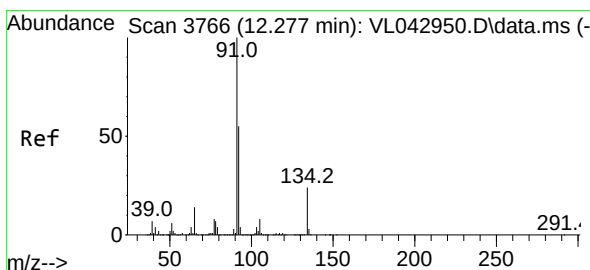
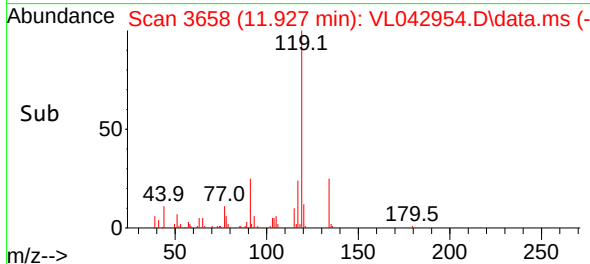
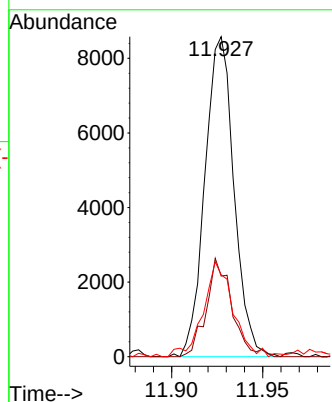
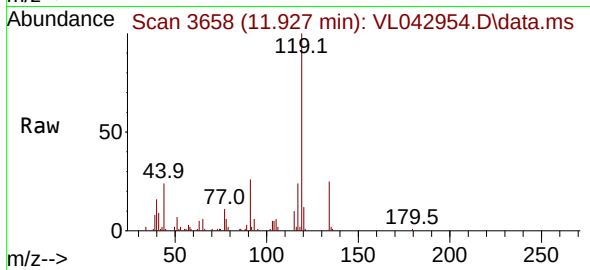




#69
p-Isopropyltoluene
Concen: 0.103 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

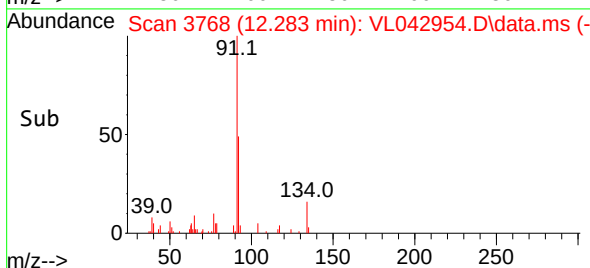
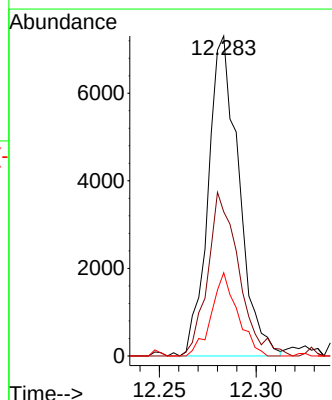
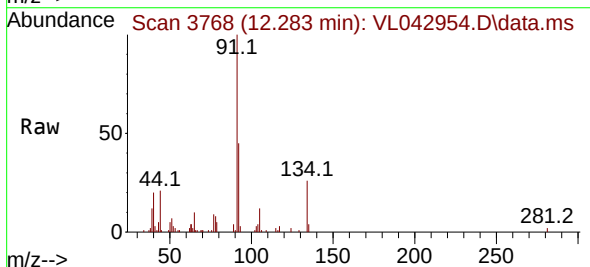
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

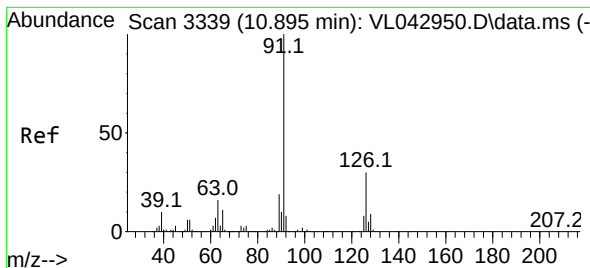
Tgt Ion:	119	Resp:	9493
Ion	Ratio	Lower	Upper
119	100		
134	27.3	21.0	31.4
91	28.9	22.3	33.5



#70
n-Butylbenzene
Concen: 0.089 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.006 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion:	91	Resp:	8041
Ion	Ratio	Lower	Upper
91	100		
92	52.1	44.0	66.0
134	22.7	19.4	29.2

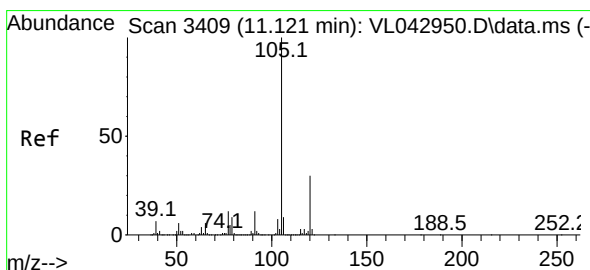
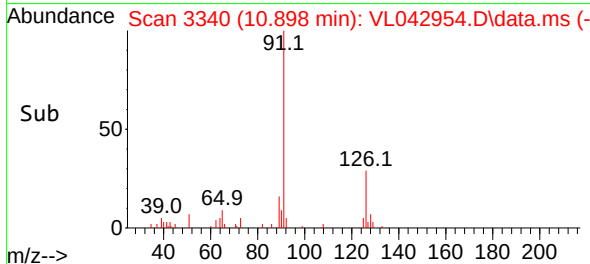
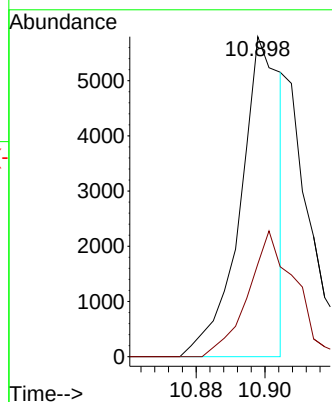
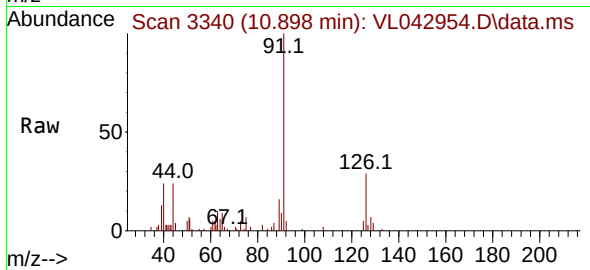




#71
2-Chlorotoluene
Concen: 0.071 ppbv
RT: 10.898 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

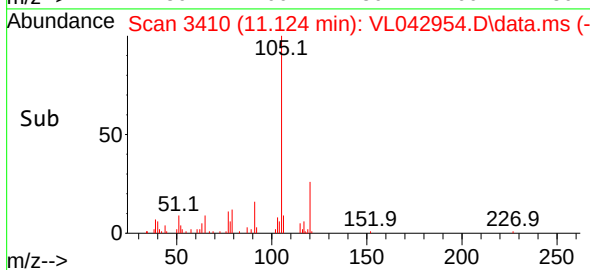
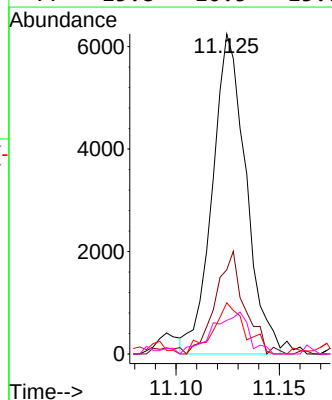
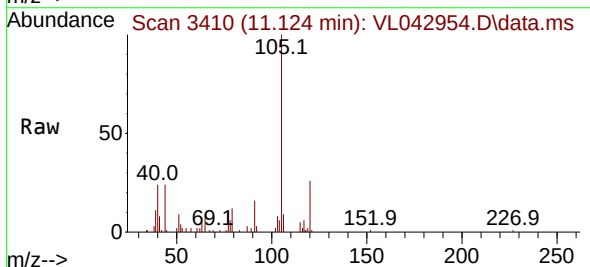
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

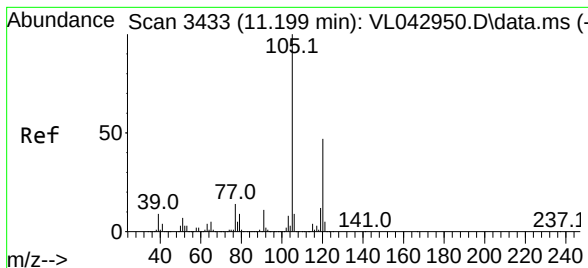
Tgt Ion: 91 Resp: 4737
Ion Ratio Lower Upper
91 100
126 45.7 12.3 49.3



#72
4-Ethyltoluene
Concen: 0.095 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042954.D
Acq: 22 Sep 2025 11:56

Tgt Ion: 105 Resp: 7048
Ion Ratio Lower Upper
105 100
120 29.3 24.2 36.2
91 17.8 10.0 15.0#
77 15.8 10.5 15.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.099 ppbv

RT: 11.209 min Scan# 34

Delta R.T. 0.010 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Instrument :

MSVOA_1

ClientSampleId :

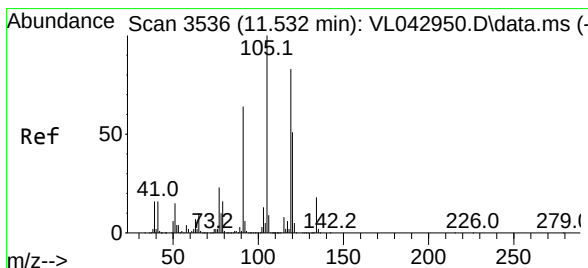
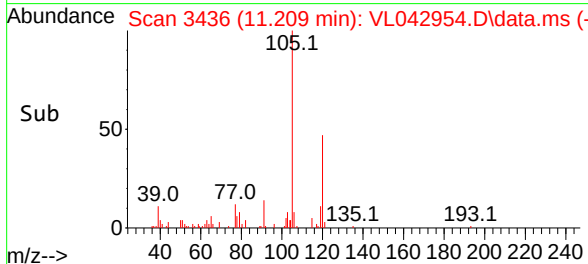
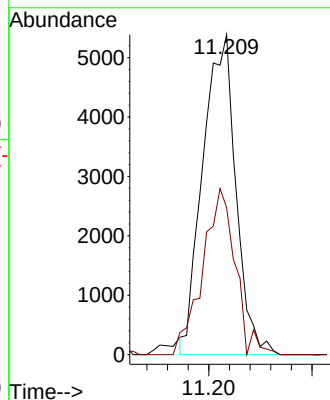
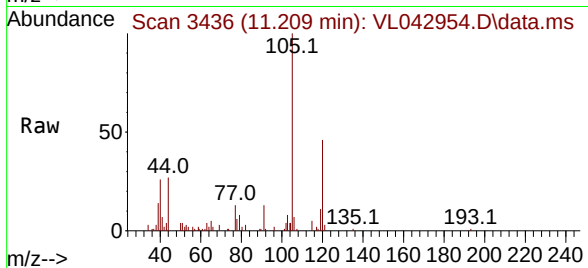
VSTDIC0.1

Tgt Ion:105 Resp: 5976

Ion Ratio Lower Upper

105 100

120 46.0 38.0 57.0



#74

1,2,4-Trimethylbenzene

Concen: 0.103 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.003 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Tgt Ion:105 Resp: 6807

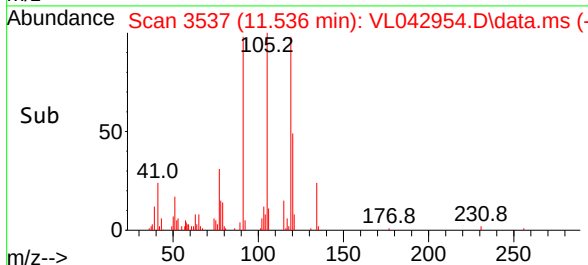
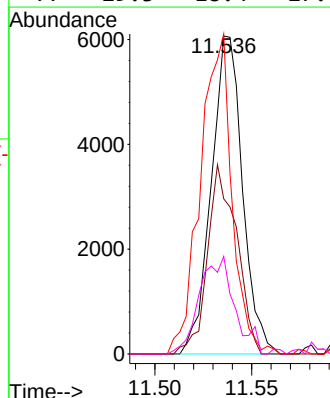
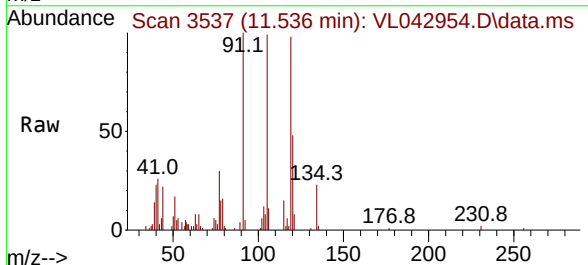
Ion Ratio Lower Upper

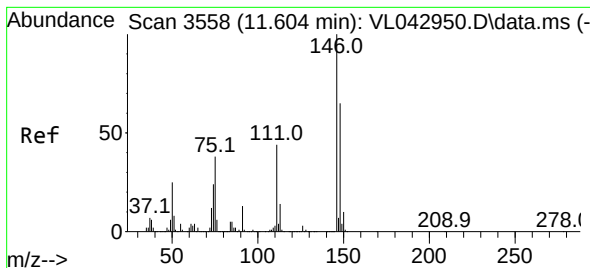
105 100

120 48.8 40.9 61.3

91 100.7 51.2 76.8#

77 29.3 18.4 27.6#





#75

1,3-Dichlorobenzene

Concen: 0.100 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. 0.003 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

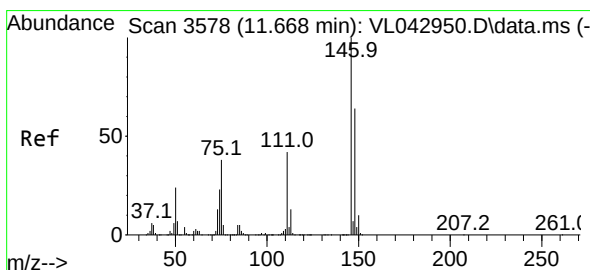
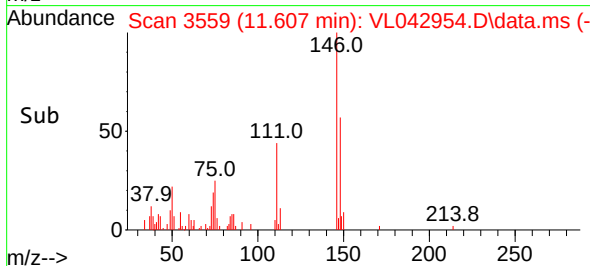
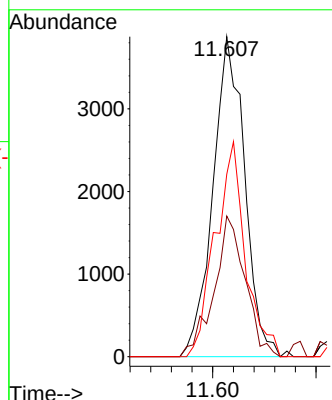
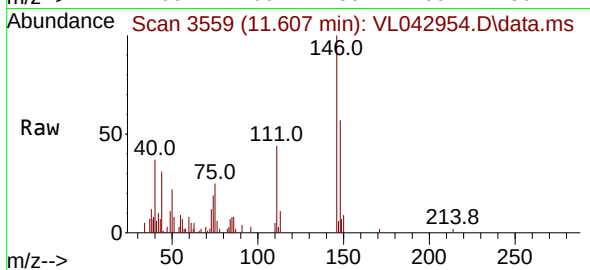
Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion:	146	Resp:	4130
Ion	Ratio	Lower	Upper
146	100		
111	43.2	22.3	66.9
148	63.8	31.9	95.5



#76

1,4-Dichlorobenzene

Concen: 0.094 ppbv

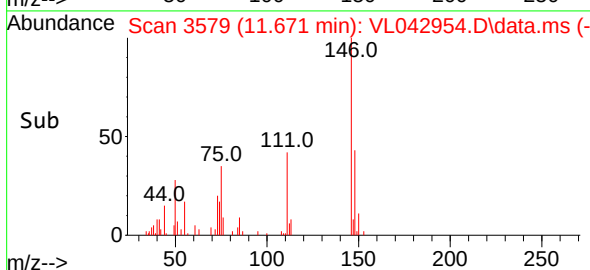
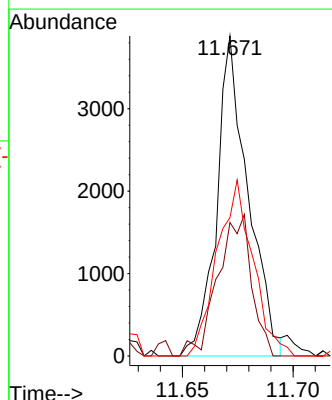
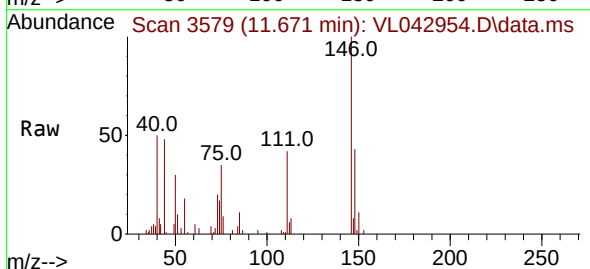
RT: 11.671 min Scan# 3579

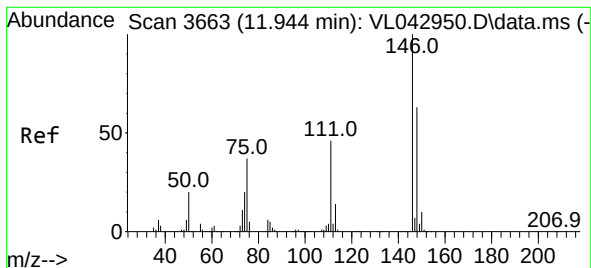
Delta R.T. 0.003 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Tgt Ion:	146	Resp:	3832
Ion	Ratio	Lower	Upper
146	100		
111	49.1	21.5	64.5
148	62.4	31.9	95.5





#77

1,2-Dichlorobenzene

Concen: 0.104 ppbv

RT: 11.950 min Scan# 3

Delta R.T. 0.006 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

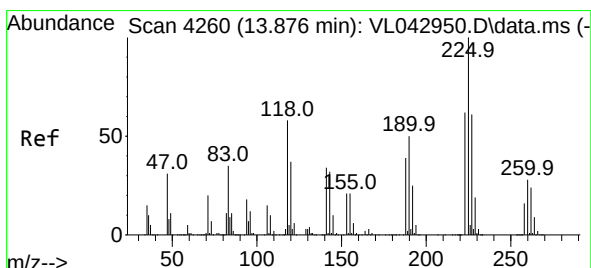
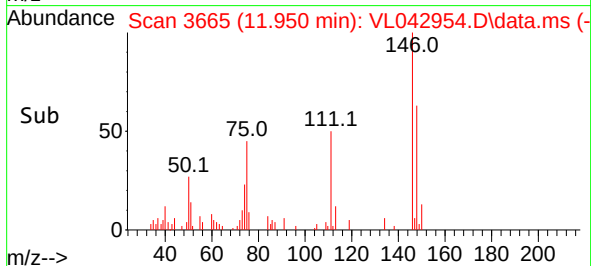
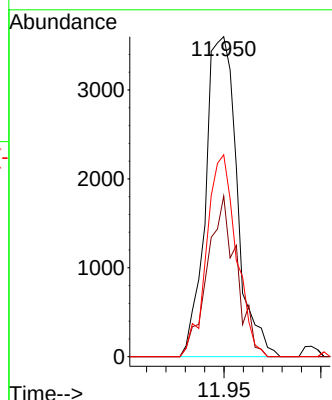
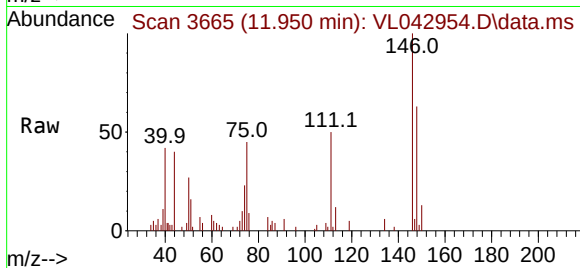
Tgt Ion:146 Resp: 4083

Ion Ratio Lower Upper

146 100

111 46.2 23.1 69.3

148 59.3 32.0 96.0



#78

Hexachloro-1,3-Butadiene

Concen: 0.125 ppbv

RT: 13.879 min Scan# 4261

Delta R.T. 0.003 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

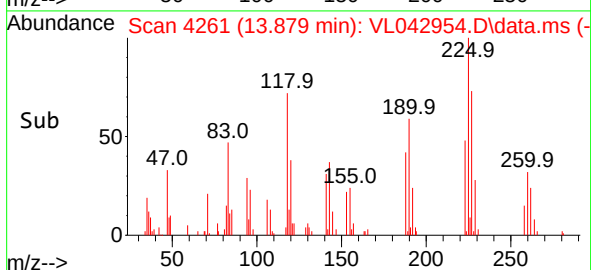
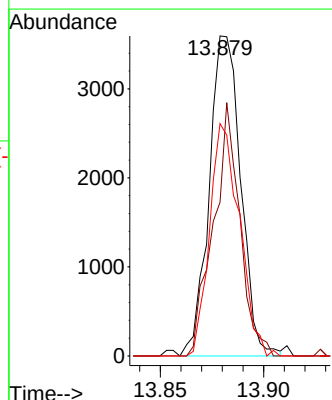
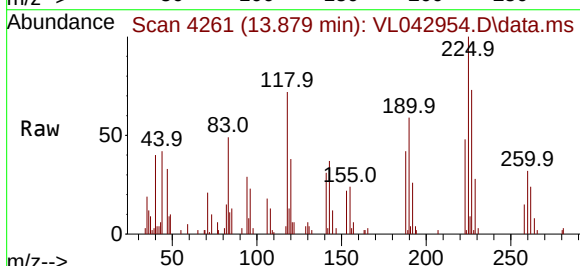
Tgt Ion:225 Resp: 3820

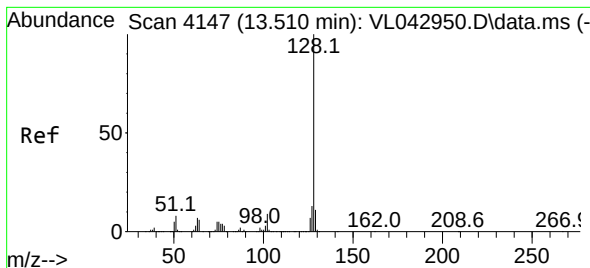
Ion Ratio Lower Upper

225 100

223 66.1 50.1 75.1

227 68.7 50.4 75.6





#79

Naphthalene

Concen: 0.082 ppbv

RT: 13.516 min Scan# 4147

Delta R.T. 0.006 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

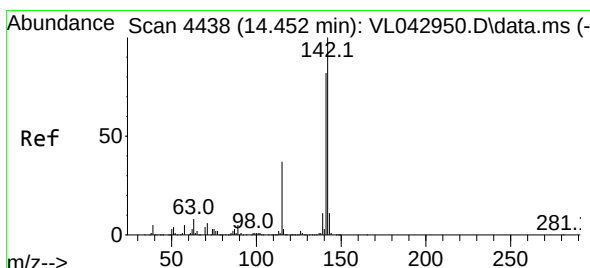
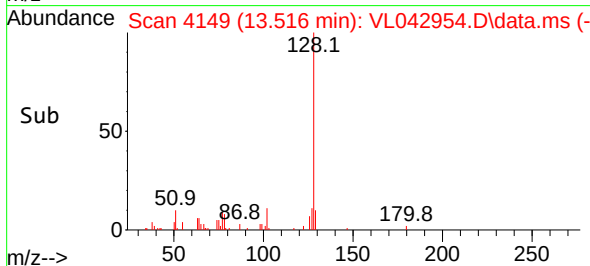
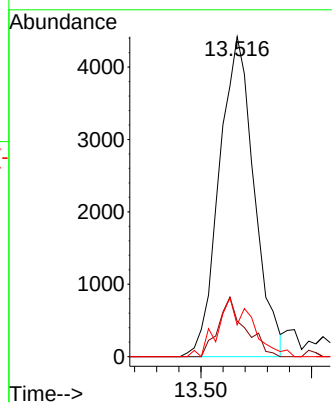
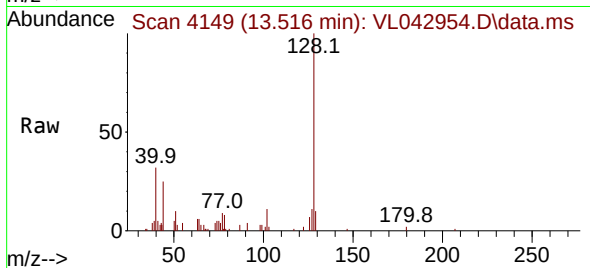
Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion:	128	Resp:	4836
Ion Ratio	Lower	Upper	
128	100		
127	11.1	10.6	15.8
129	10.0	9.0	13.6



#80

Naphthalene, 2-methyl-

Concen: 0.222 ppbv

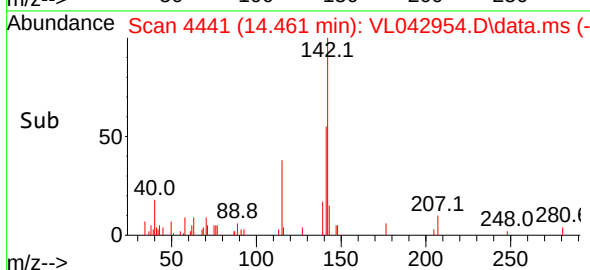
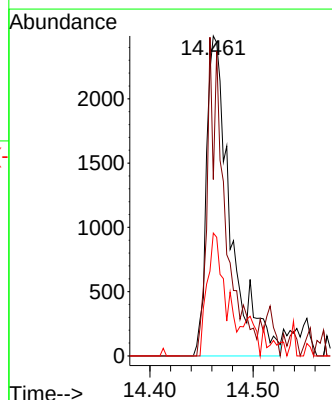
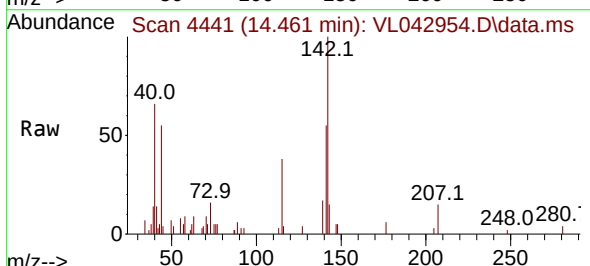
RT: 14.461 min Scan# 4441

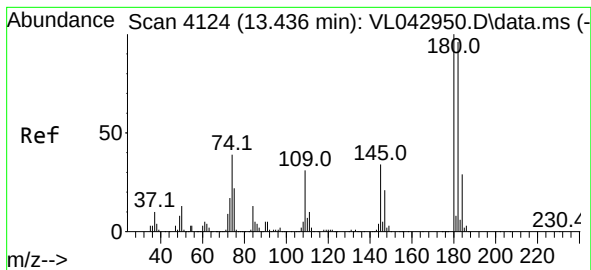
Delta R.T. 0.010 min

Lab File: VL042954.D

Acq: 22 Sep 2025 11:56

Tgt Ion:	142	Resp:	4029
Ion Ratio	Lower	Upper	
142	100		
141	70.2	65.1	97.7
115	37.7	28.9	43.3





#81

1,2,4-Trichlorobenzene

Concen: 0.066 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042954.D

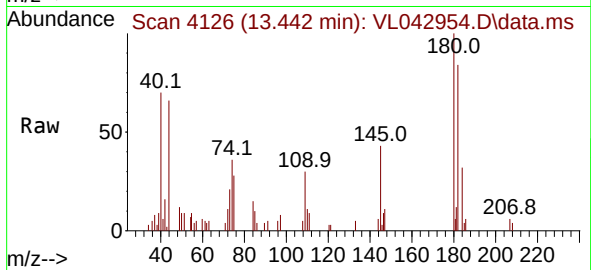
Acq: 22 Sep 2025 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1



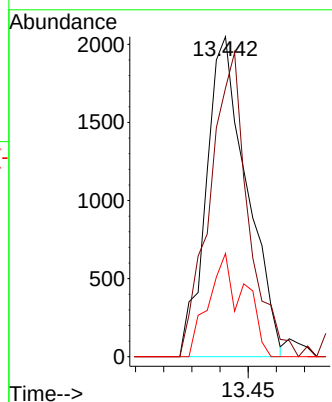
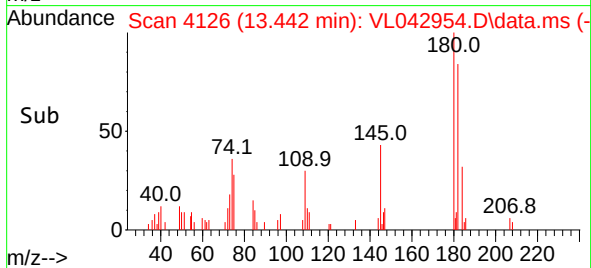
Tgt Ion:180 Resp: 2055

Ion Ratio Lower Upper

180 100

182 91.9 75.7 113.5

184 28.4 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042955.D
 Acq On : 22 Sep 2025 12:30
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Sep 23 02:13:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	163615	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	504423	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	454013	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	334002	9.855	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	840	0.038	ppbv #	83
3) Chlorodifluoromethane	1.476	51	1668	0.061	ppbv	95
4) Chloromethane	1.534	50	568	0.057	ppbv	90
5) Vinyl Chloride	1.580	62	358	0.040	ppbv #	53
6) Bromomethane	1.670	94	96	0.030	ppbv	90
7) Chloroethane	1.709	64	249	0.071	ppbv #	80
8) Dichlorotetrafluoroethane	1.554	85	838	0.045	ppbv	93
9) Propene	1.483	41	829	0.069	ppbv #	1
10) Heptane	4.978	43	551	0.017	ppbv #	29
11) Trichlorofluoromethane	2.140	101	682	0.032	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	682	0.040	ppbv	86
13) Ethanol	1.890	45	664	0.581	ppbv #	35
14) Bromoethene	1.784	108	376	0.058	ppbv #	1
15) Acetone	1.839	43	2845	0.134	ppbv	93
16) 1,3-Butadiene	1.612	39	612	0.061	ppbv #	31
17) tert-Butyl alcohol	2.043	59	1183	0.051	ppbv #	1
18) 1,1-Dichloroethene	2.030	96	166	0.021	ppbv #	58
19) Isopropyl Alcohol	1.890	45	664	0.052	ppbv #	27
20) Methylene Chloride	2.062	84	2681	Below Cal		94
21) Allyl Chloride	2.098	41	1053	0.071	ppbv #	46
22) trans-1,2-Dichloroethene	2.340	96	370	0.041	ppbv #	92
23) Vinyl Acetate	2.460	43	1543	0.051	ppbv #	15
24) 1,1-Dichloroethane	2.412	63	470	0.027	ppbv #	89
25) Ethyl Acetate	2.829	43	303	0.006	ppbv #	75
26) Hexane	2.826	57	1295	0.053	ppbv #	2
27) Carbon Disulfide	2.153	76	851	0.039	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	594	0.047	ppbv #	1
29) Chloroform	2.732	83	107	0.003	ppbv	99
30) Cyclohexane	3.862	84	190	0.009	ppbv #	1
31) cis-1,2-Dichloroethene	2.713	61	280	0.012	ppbv #	87
32) 1,1,1-Trichloroethane	3.363	97	562	0.016	ppbv #	18
34) 2-Butanone	2.557	43	1365	0.039	ppbv #	81
35) Carbon Tetrachloride	3.761	117	771	0.024	ppbv #	76
36) Benzene	3.654	78	2042	0.043	ppbv	99
37) 1,2-Dichloroethane	3.217	62	935	0.038	ppbv #	83
38) Trichloroethene	4.551	130	363	0.015	ppbv #	18
39) 1,2-Dichloropropane	3.959	63	123623	7.144	ppbv #	23
40) 1,4-Dioxane	4.619	88	180	0.022	ppbv #	8
41) Tetrahydrofuran	3.046	42	84	0.004	ppbv #	38
42) Bromodichloromethane	4.489	83	785	0.023	ppbv #	78
43) Methyl Methacrylate	4.884	69	399	0.021	ppbv #	1
44) 2,2,4-Trimethylpentane	4.635	57	1698	0.021	ppbv #	7
45) t-1,3-Dichloropropene	6.402	75	159	0.008	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042955.D
 Acq On : 22 Sep 2025 12:30
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

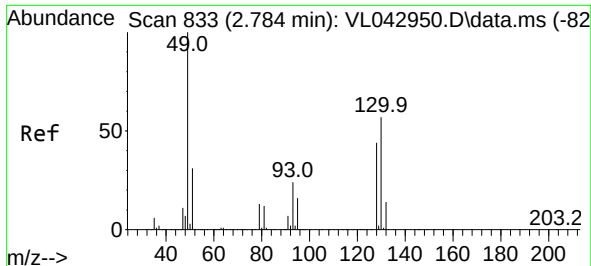
Quant Time: Sep 23 02:13:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	5.600	75	424	0.016	ppbv	#	29
47) 1,1,2-Trichloroethane	6.587	97	443	0.024	ppbv	#	37
48) Dibromochloromethane	7.393	129	612	0.021	ppbv	#	10
49) Bromoform	9.484	173	766	0.030	ppbv		96
50) 4-Methyl-2-Pentanone	5.742	43	53	0.001	ppbv	#	39
51) 2-Hexanone	7.435	43	189	0.005	ppbv	#	28
52) Tetrachloroethene	8.231	164	316	0.017	ppbv	#	54
53) Toluene	6.852	91	62	0.001	ppbv		94
54) 1,2-Dibromoethane	7.331	107	27	0.001	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.927	131	1008	0.046	ppbv	#	1
57) Chlorobenzene	8.920	112	1619	0.039	ppbv	#	70
58) Ethyl Benzene	9.532	91	2417	0.032	ppbv		96
59) m/p-Xylene	9.532	91	2417	0.041	ppbv	#	100
60) o-Xylene	9.966	91	2366	0.040	ppbv		92
61) Styrene	9.875	104	621	0.022	ppbv	#	41
62) Isopropylbenzene	10.539	105	3139	0.036	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.959	83	1006	0.033	ppbv		88
64) n-propylbenzene	10.992	120	745	0.033	ppbv		87
65) tert-Butylbenzene	11.526	119	2797	0.036	ppbv	#	96
66) Benzyl Chloride	11.613	91	103	0.013	ppbv	#	65
67) sec-Butylbenzene	11.765	105	3805	0.035	ppbv		92
69) p-Isopropyltoluene	11.924	119	2947	0.032	ppbv		92
70) n-Butylbenzene	12.283	91	2629	0.029	ppbv		91
71) 2-Chlorotoluene	10.901	91	2400	0.036	ppbv		98
72) 4-Ethyltoluene	11.125	105	2527	0.034	ppbv	#	86
73) 1,3,5-Trimethylbenzene	11.209	105	922	0.015	ppbv	#	70
74) 1,2,4-Trimethylbenzene	11.539	105	2411	0.037	ppbv	#	85
75) 1,3-Dichlorobenzene	11.610	146	1180	0.029	ppbv		81
76) 1,4-Dichlorobenzene	11.685	146	477	0.012	ppbv	#	2
77) 1,2-Dichlorobenzene	11.950	146	1283	0.033	ppbv		89
78) Hexachloro-1,3-Butadiene	13.882	225	1707	0.056	ppbv		96
79) Naphthalene	13.516	128	2391	0.041	ppbv	#	95
80) Naphthalene,2-methyl-	14.462	142	3144	0.175	ppbv		88
81) 1,2,4-Trichlorobenzene	13.442	180	939	0.030	ppbv	#	91

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

Quant Time: Sep 23 02:13:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

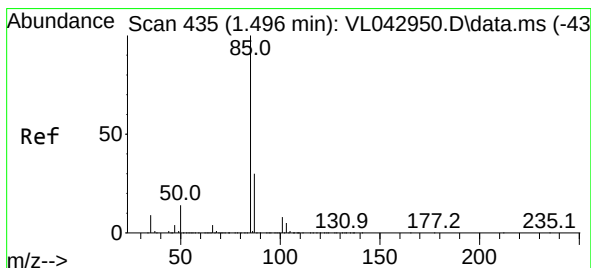
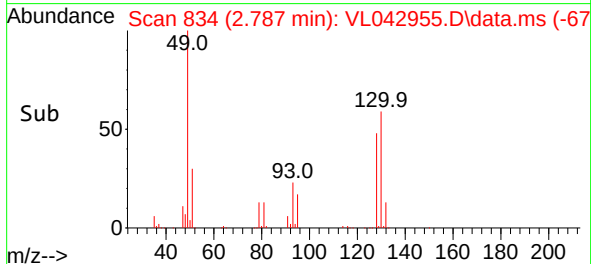
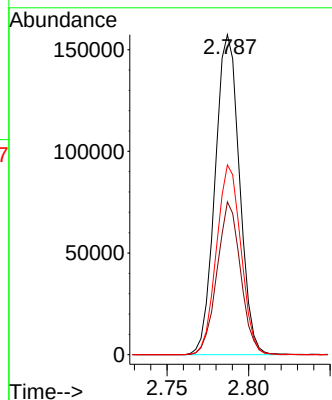
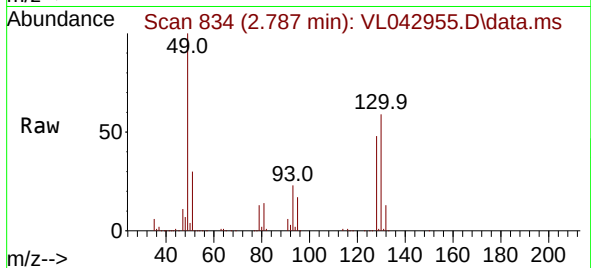




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

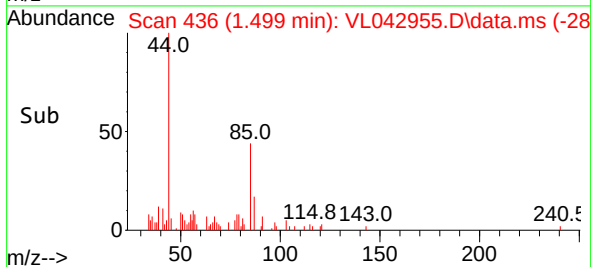
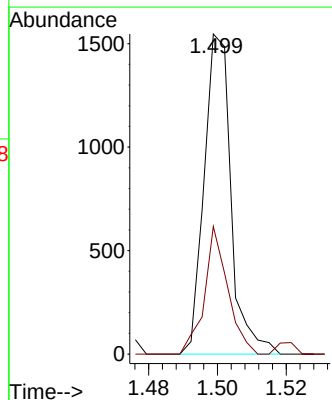
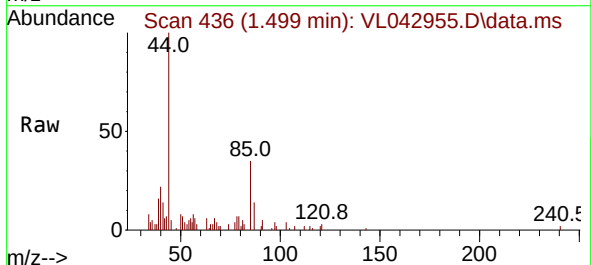
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

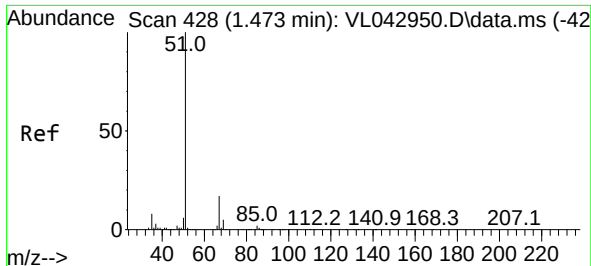
Tgt Ion: 49 Resp: 163615
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.8
130 59.5 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 0.038 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion: 85 Resp: 840
Ion Ratio Lower Upper
85 100
87 39.9 24.3 36.5#





#3

Chlorodifluoromethane

Concen: 0.061 ppbv

RT: 1.476 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_1

ClientSampleId :

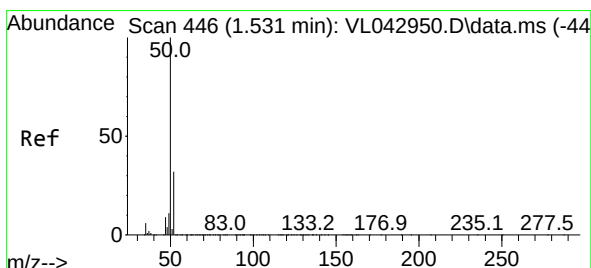
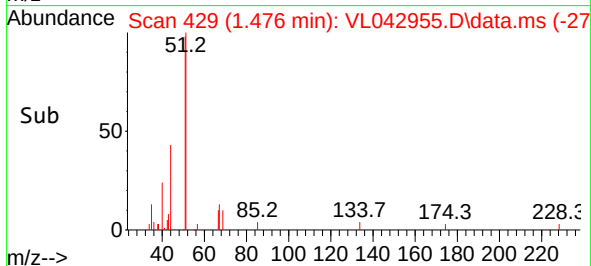
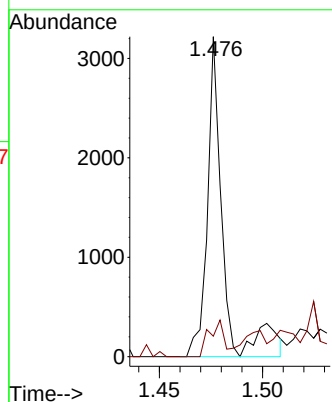
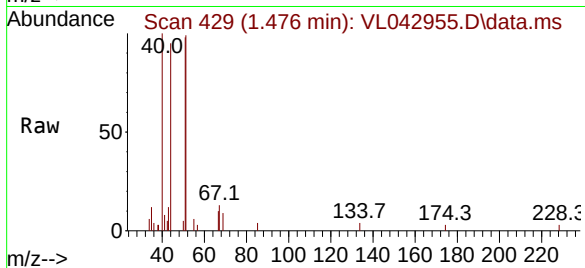
VSTDICC0.03

Tgt Ion: 51 Resp: 1668

Ion Ratio Lower Upper

51 100

67 15.1 13.8 20.8



#4

Chloromethane

Concen: 0.057 ppbv

RT: 1.534 min Scan# 447

Delta R.T. 0.003 min

Lab File: VL042955.D

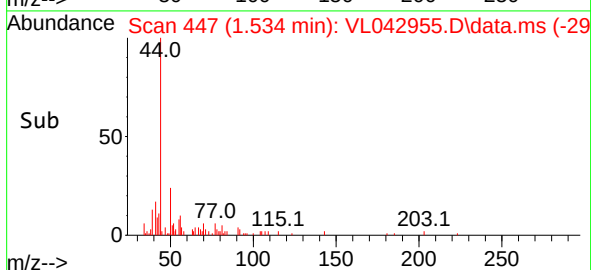
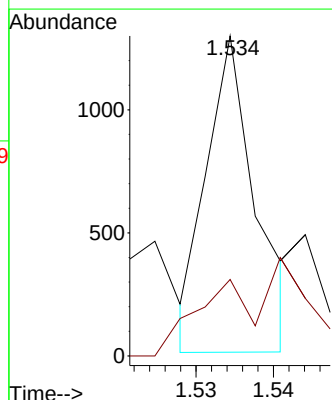
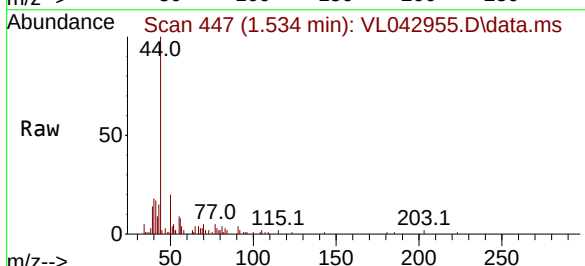
Acq: 22 Sep 2025 12:30

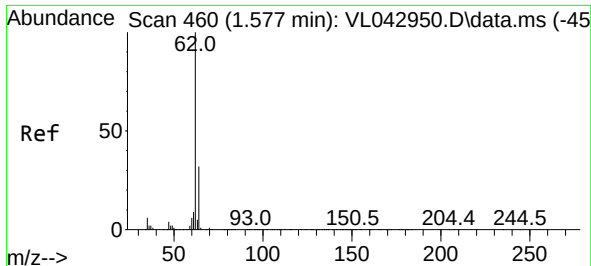
Tgt Ion: 50 Resp: 568

Ion Ratio Lower Upper

50 100

52 26.7 25.9 38.9

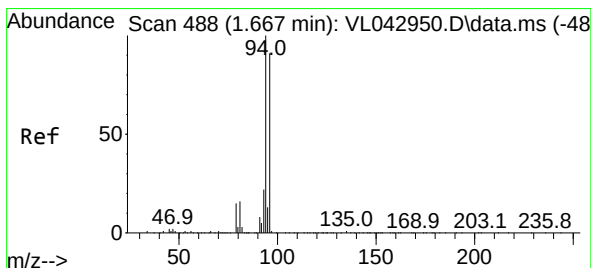
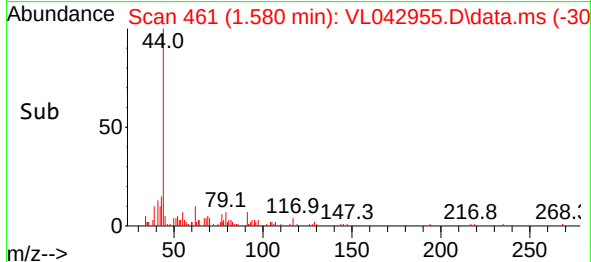
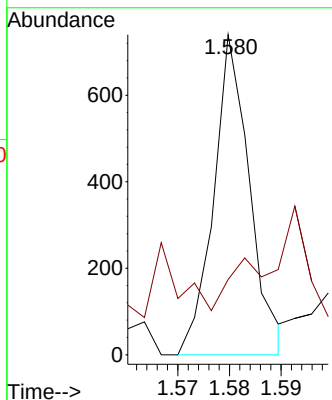
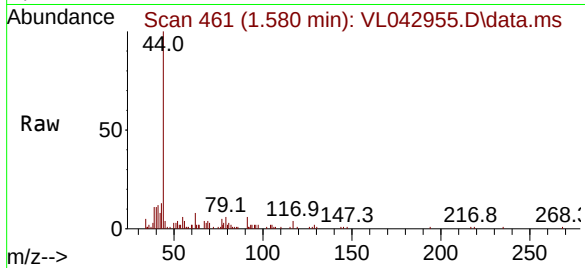




#5
 Vinyl Chloride
 Concen: 0.040 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042955.D
 Acq: 22 Sep 2025 12:30

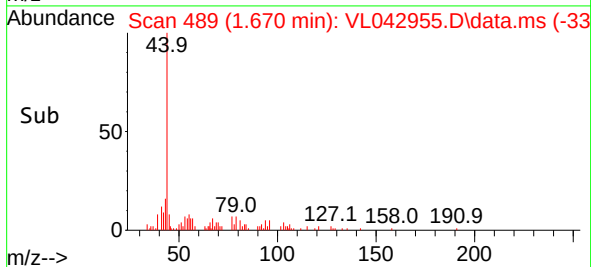
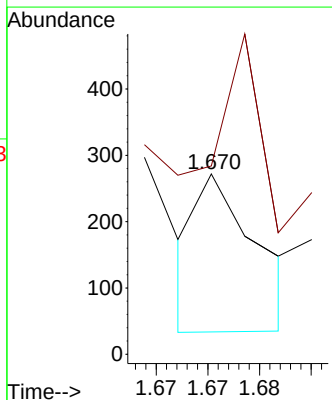
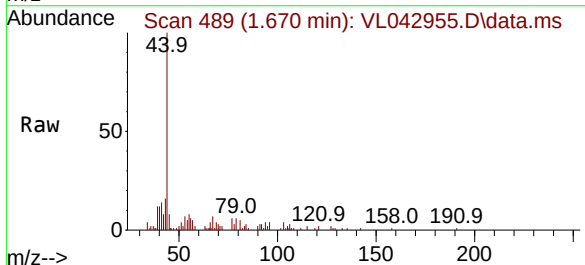
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

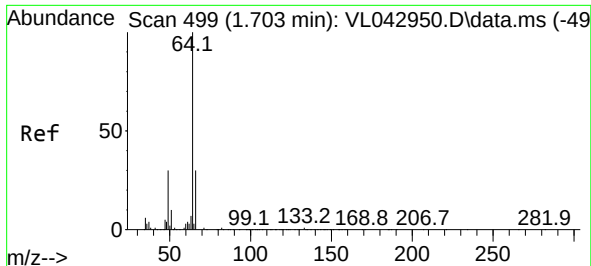
Tgt Ion: 62 Resp: 358
 Ion Ratio Lower Upper
 62 100
 64 5.9 25.4 38.2#



#6
 Bromomethane
 Concen: 0.030 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042955.D
 Acq: 22 Sep 2025 12:30

Tgt Ion: 94 Resp: 96
 Ion Ratio Lower Upper
 94 100
 96 81.5 72.6 108.8

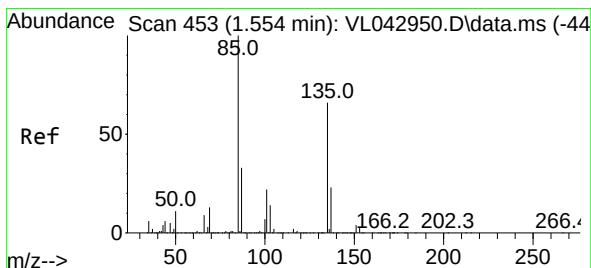
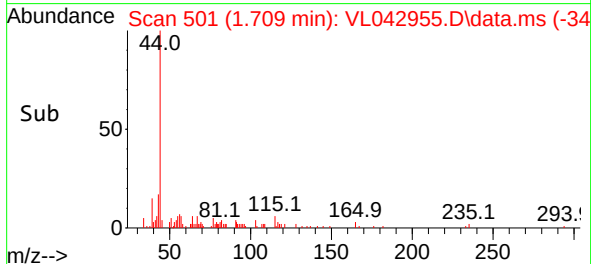
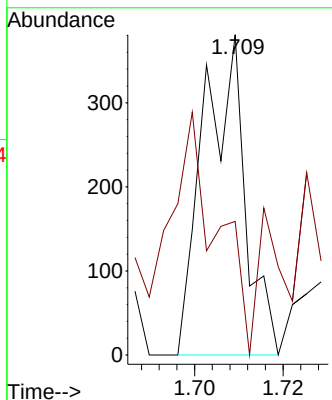
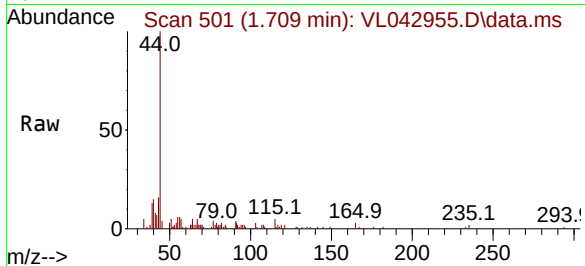




#7
Chloroethane
Concen: 0.071 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.006 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

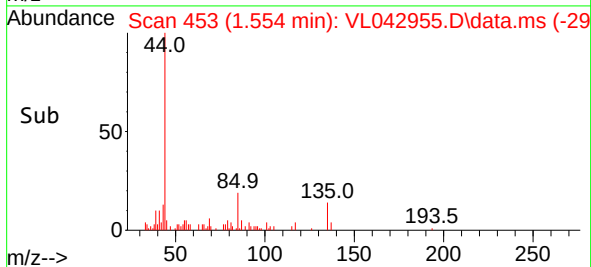
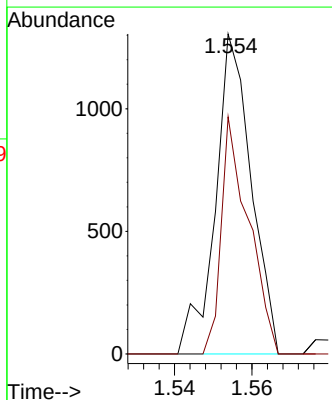
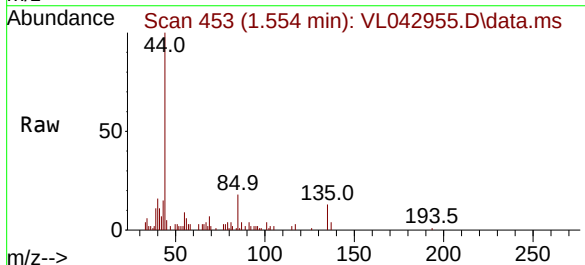
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

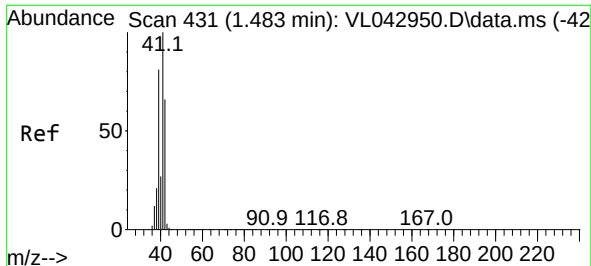
Tgt Ion: 64 Resp: 249
Ion Ratio Lower Upper
64 100
66 41.7 24.6 36.8#



#8
Dichlorotetrafluoroethane
Concen: 0.045 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion: 85 Resp: 838
Ion Ratio Lower Upper
85 100
135 56.6 49.7 74.5





#9

Propene

Concen: 0.069 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_L

ClientSampleId :

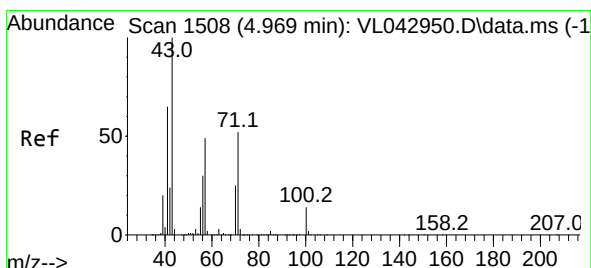
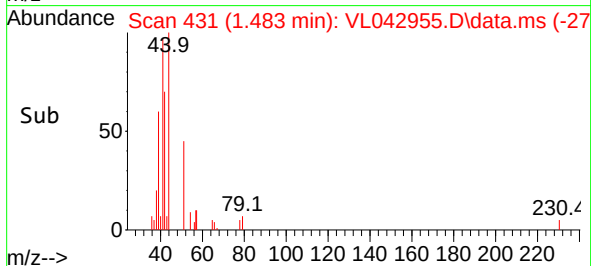
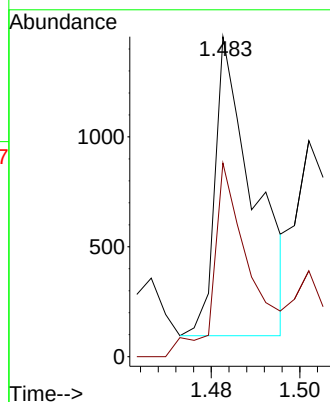
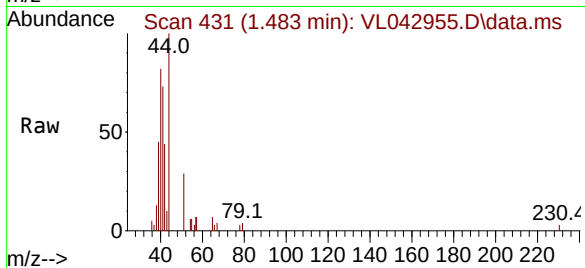
VSTDICC0.03

Tgt Ion: 41 Resp: 829

Ion Ratio Lower Upper

41 100

42 343.2 57.4 86.2#



#10

Heptane

Concen: 0.017 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.010 min

Lab File: VL042955.D

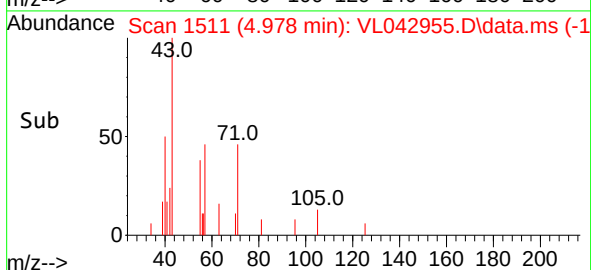
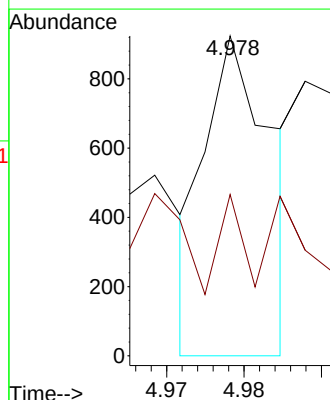
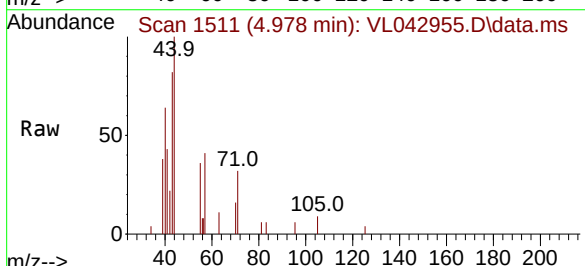
Acq: 22 Sep 2025 12:30

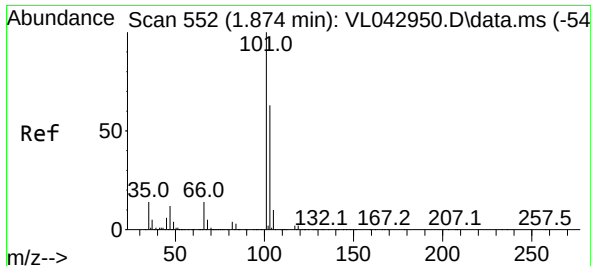
Tgt Ion: 43 Resp: 551

Ion Ratio Lower Upper

43 100

57 0.0 38.6 57.8#





#11

Trichlorofluoromethane

Concen: 0.032 ppbv

RT: 2.140 min Scan# 61

Delta R.T. 0.265 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_L

ClientSampleId :

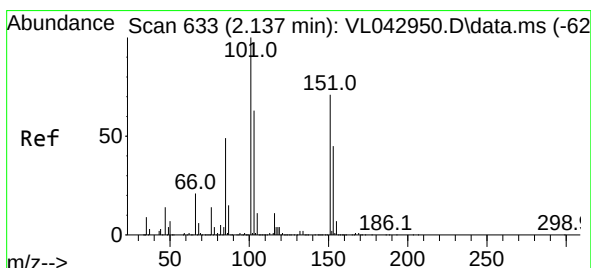
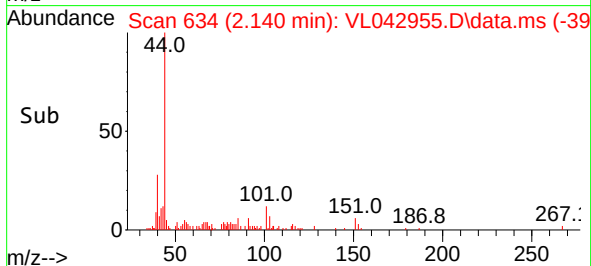
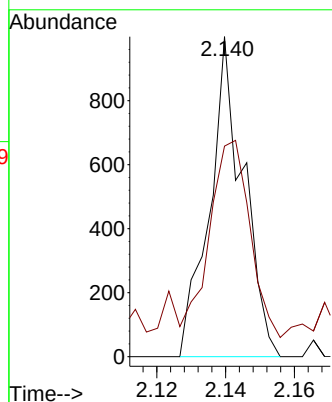
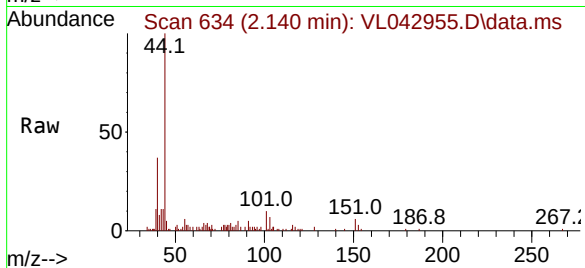
VSTDICC0.03

Tgt Ion:101 Resp: 682

Ion Ratio Lower Upper

101 100

103 59.8 50.1 75.1



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.040 ppbv

RT: 2.140 min Scan# 634

Delta R.T. 0.003 min

Lab File: VL042955.D

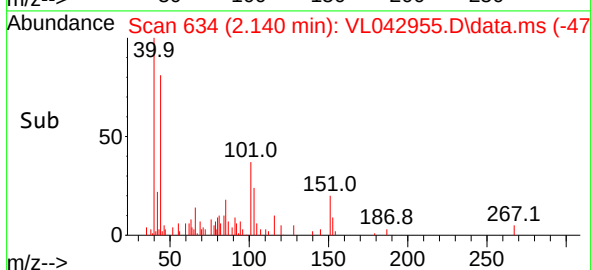
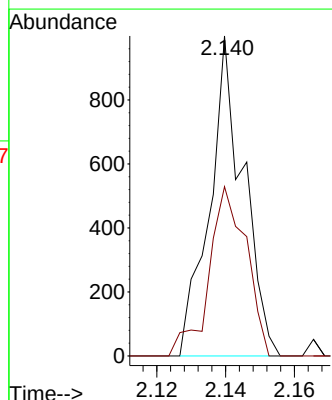
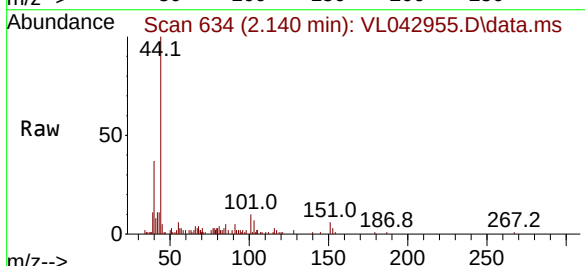
Acq: 22 Sep 2025 12:30

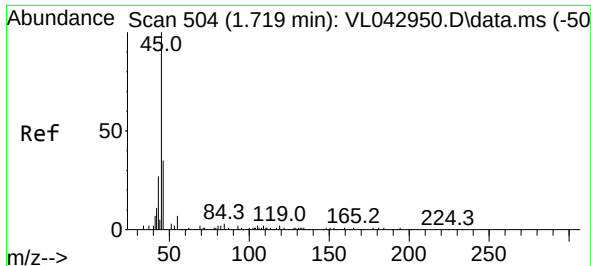
Tgt Ion:101 Resp: 682

Ion Ratio Lower Upper

101 100

151 58.2 55.7 83.5

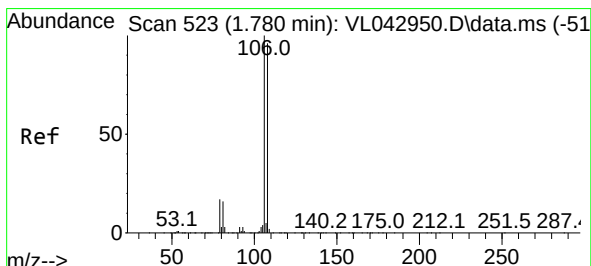
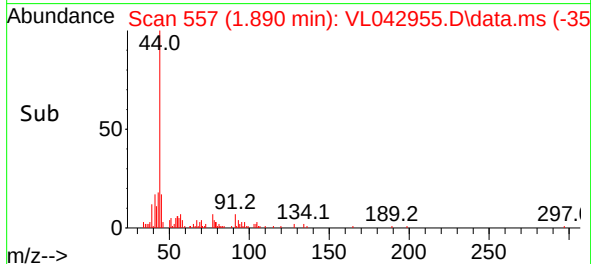
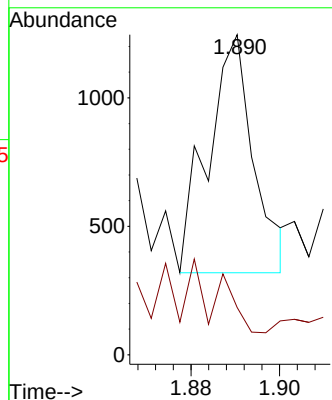
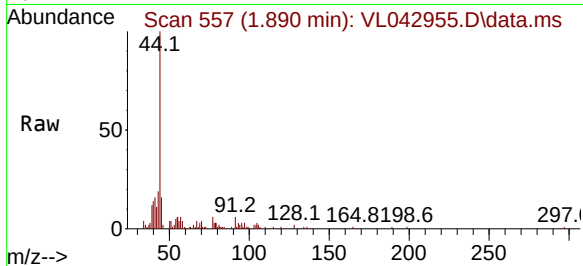




#13
Ethanol
Concen: 0.581 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.171 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

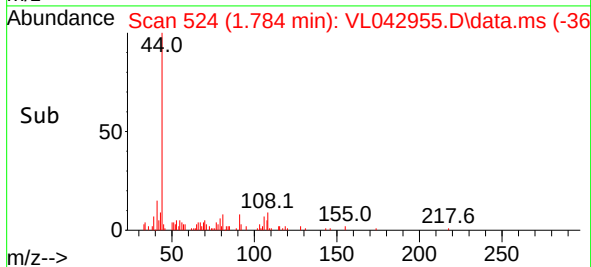
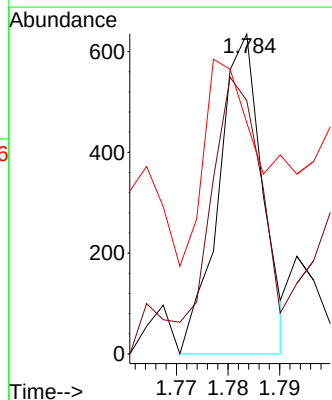
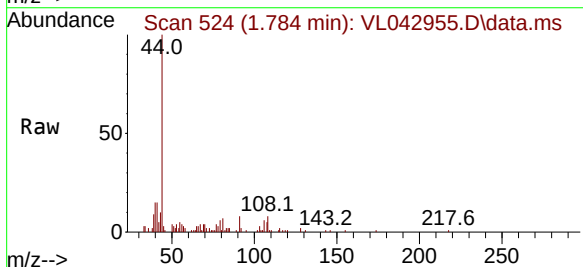
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

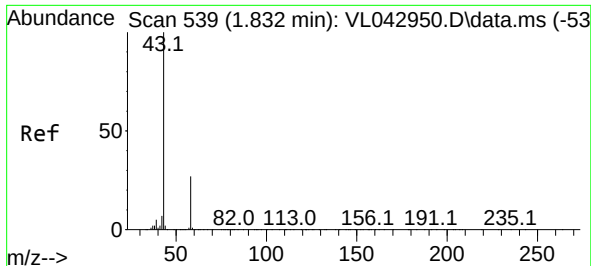
Tgt Ion: 45 Resp: 664
Ion Ratio Lower Upper
45 100
46 0.0 16.2 64.6#



#14
Bromoethene
Concen: 0.058 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion: 108 Resp: 376
Ion Ratio Lower Upper
108 100
106 155.3 86.0 129.0#
79 269.9 14.2 21.2#

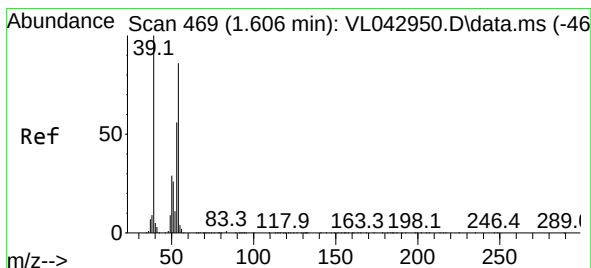
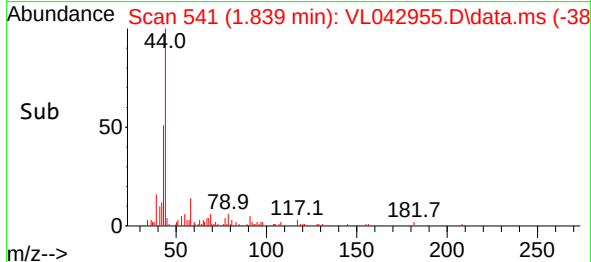
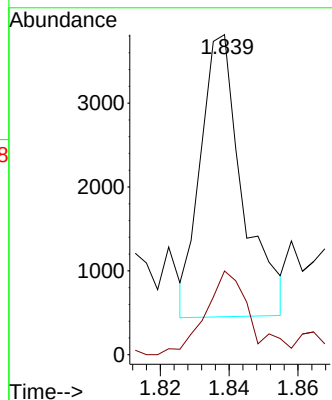
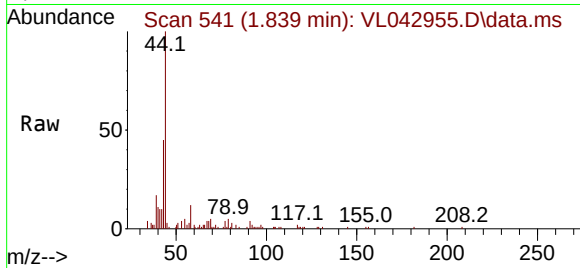




#15
Acetone
Concen: 0.134 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

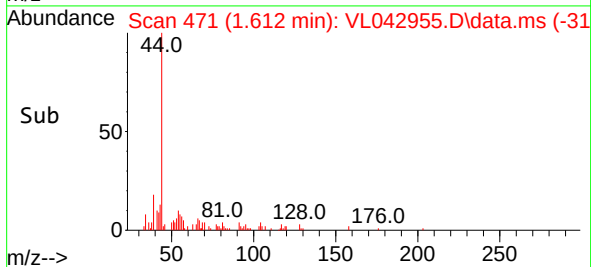
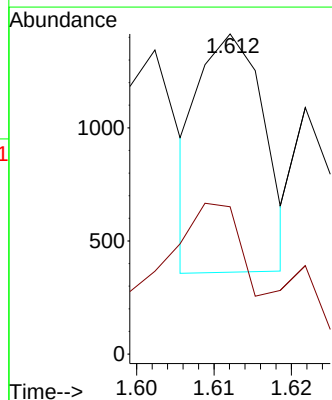
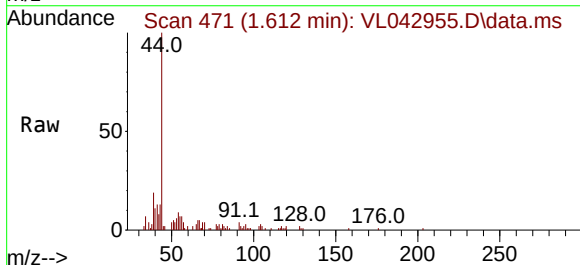
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

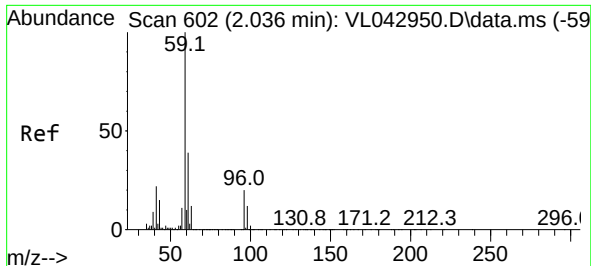
Tgt Ion: 43 Resp: 2845
Ion Ratio Lower Upper
43 100
58 31.6 22.3 33.5



#16
1,3-Butadiene
Concen: 0.061 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.006 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion: 39 Resp: 612
Ion Ratio Lower Upper
39 100
54 135.0 60.8 91.2#

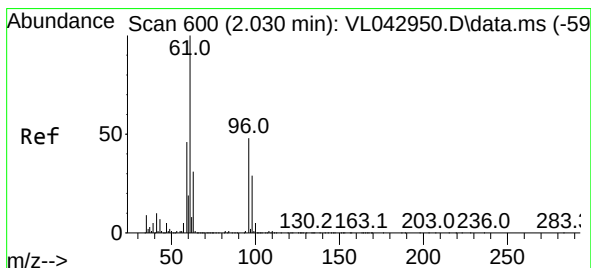
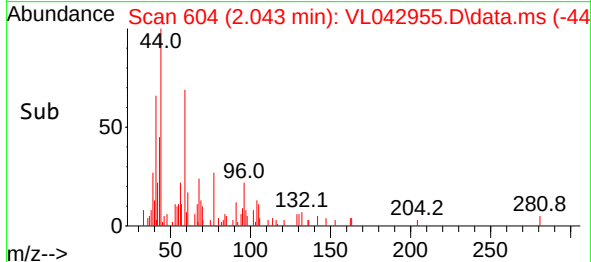
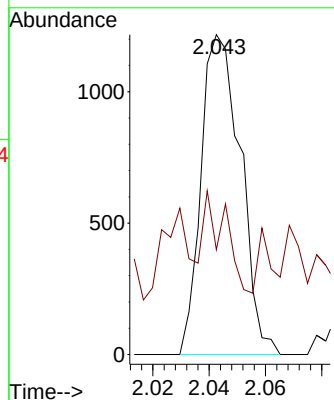
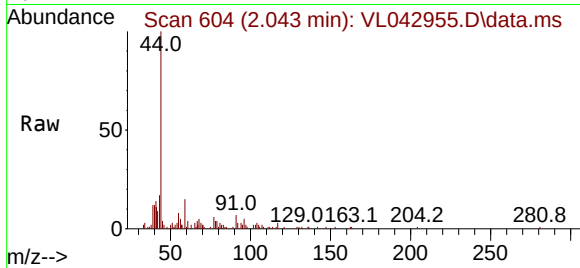




#17
tert-Butyl alcohol
Concen: 0.051 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

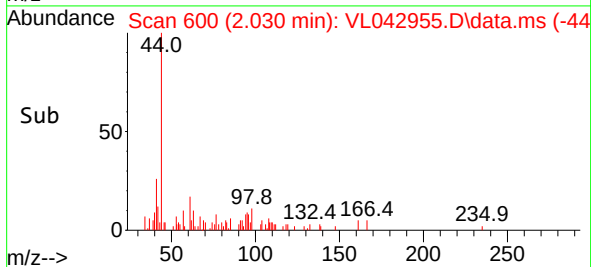
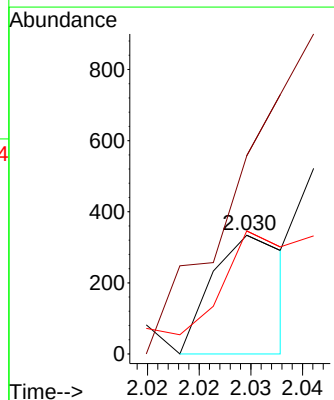
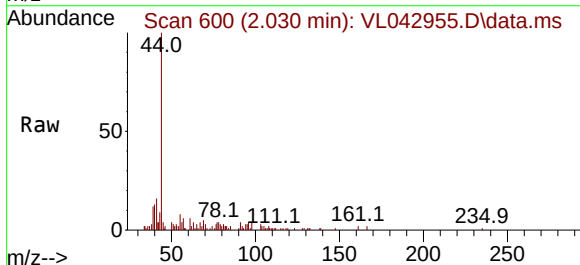
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

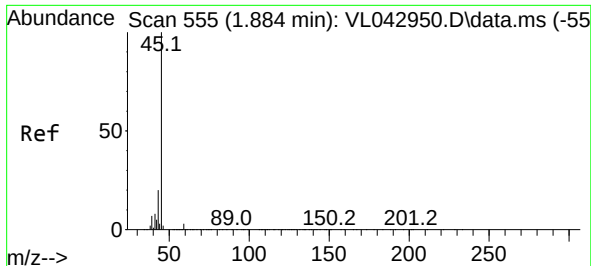
Tgt Ion: 59 Resp: 1183
Ion Ratio Lower Upper
59 100
57 88.8 8.6 12.8#



#18
1,1-Dichloroethene
Concen: 0.021 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion: 96 Resp: 166
Ion Ratio Lower Upper
96 100
61 139.8 166.2 249.4#
98 87.4 48.6 73.0#

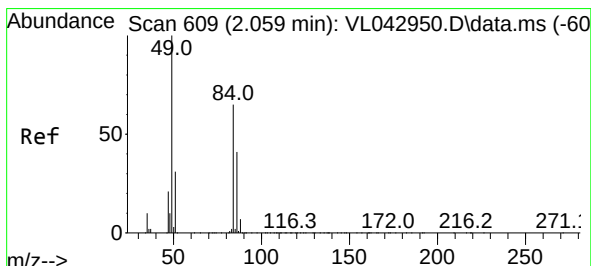
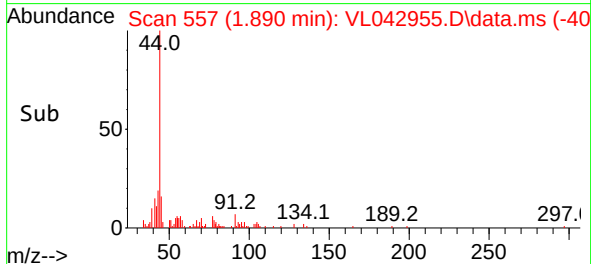
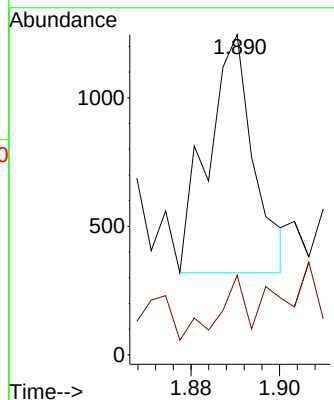
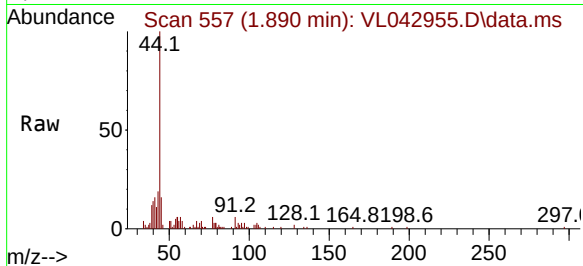




#19
Isopropyl Alcohol
Concen: 0.052 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

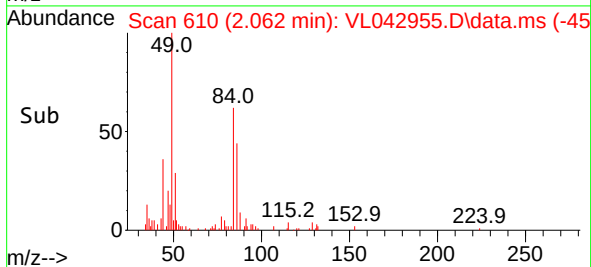
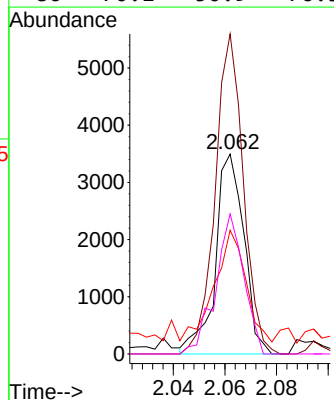
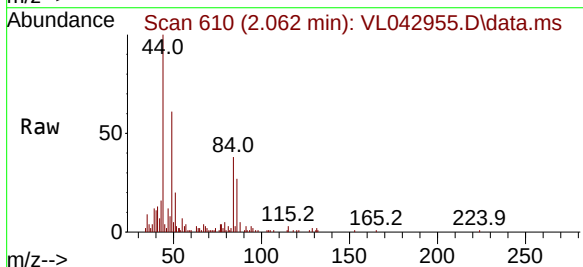
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

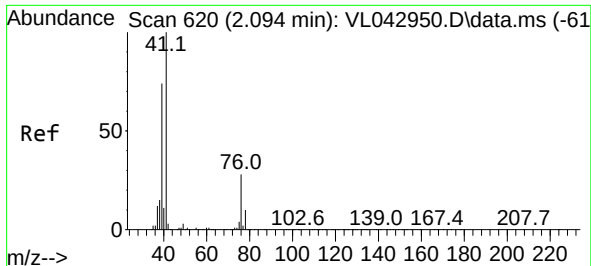
Tgt Ion: 45 Resp: 664
Ion Ratio Lower Upper
45 100
58 83.1 31.0 46.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion: 84 Resp: 2681
Ion Ratio Lower Upper
84 100
49 160.1 124.1 186.1
51 55.3 39.8 59.8
86 70.1 50.9 76.3

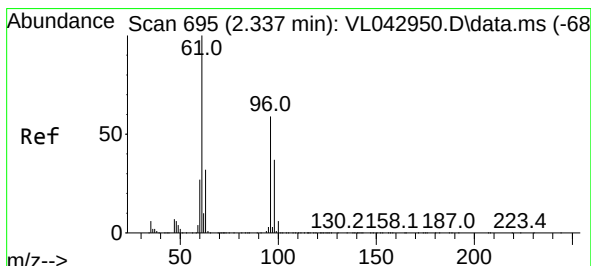
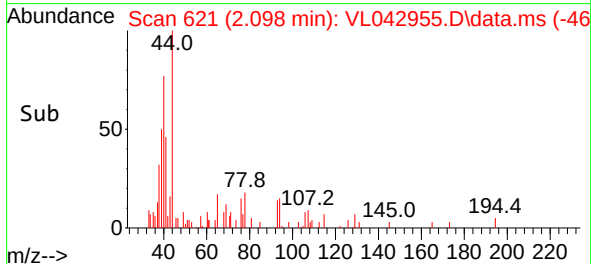
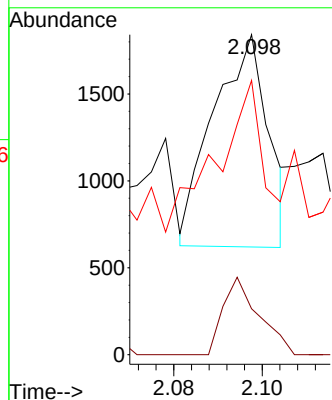
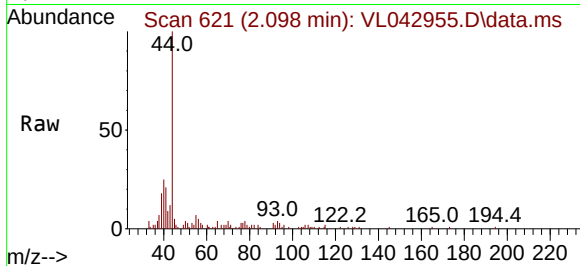




#21
 Allyl Chloride
 Concen: 0.071 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042955.D
 Acq: 22 Sep 2025 12:30

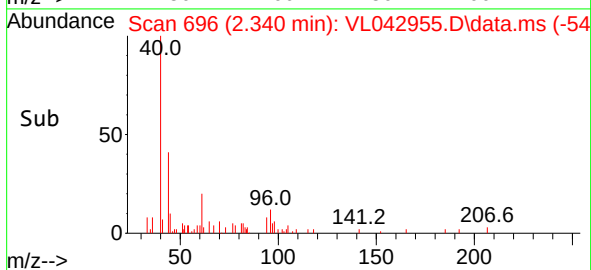
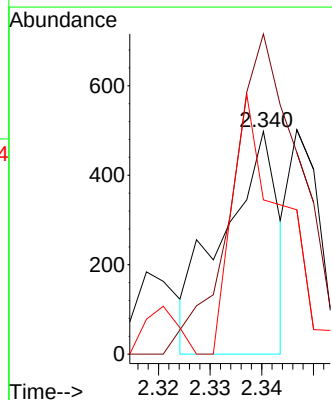
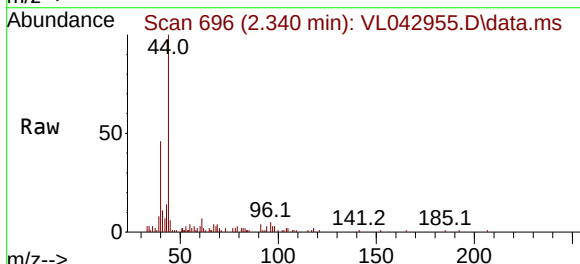
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

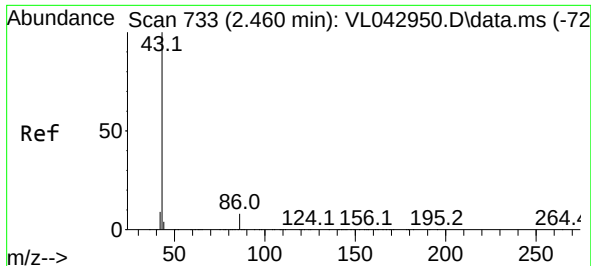
Tgt Ion: 41 Resp: 1053
 Ion Ratio Lower Upper
 41 100
 76 23.8 22.3 33.5
 39 137.6 61.3 91.9#



#22
 trans-1,2-Dichloroethene
 Concen: 0.041 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.003 min
 Lab File: VL042955.D
 Acq: 22 Sep 2025 12:30

Tgt Ion: 96 Resp: 370
 Ion Ratio Lower Upper
 96 100
 61 176.5 136.5 204.7
 98 76.3 50.6 76.0#

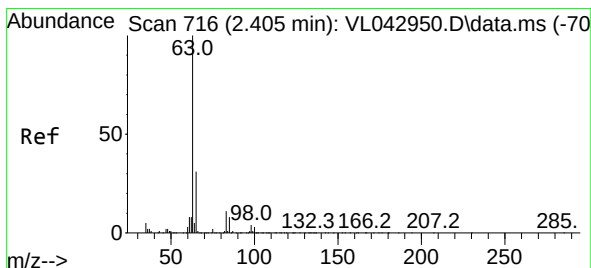
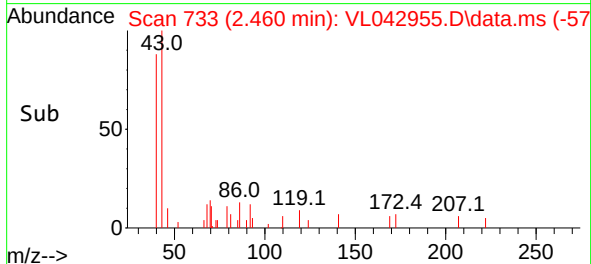
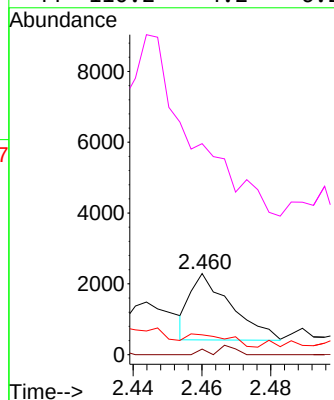
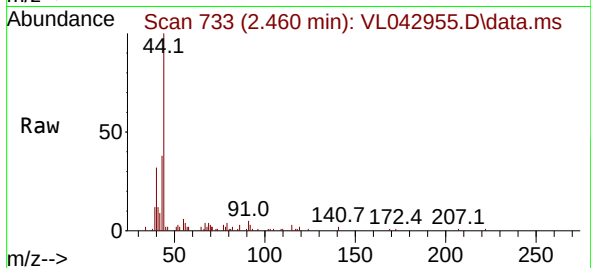




#23
 Vinyl Acetate
 Concen: 0.051 ppbv
 RT: 2.460 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL042955.D
 Acq: 22 Sep 2025 12:30

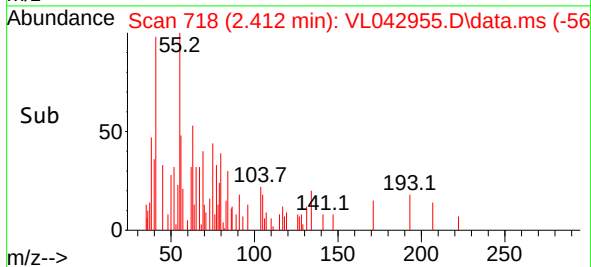
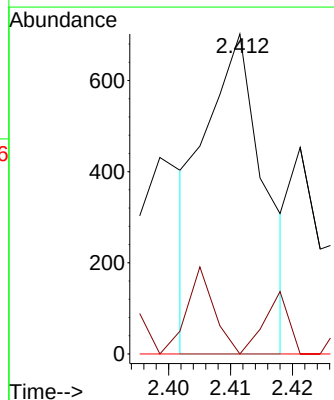
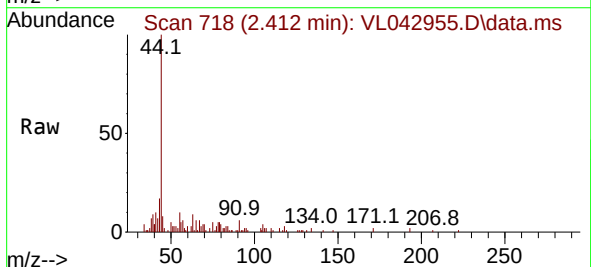
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

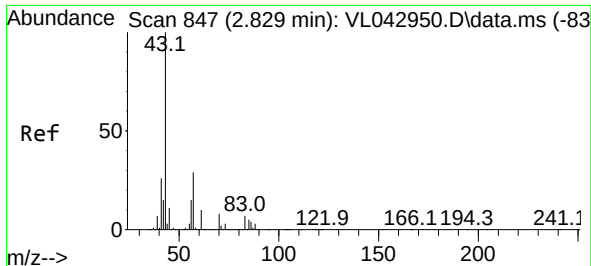
Tgt Ion: 43	Resp: 1543
Ion Ratio	Lower Upper
43 100	
86 8.6	6.2 9.2
42 18.0	7.4 11.0#
44 110.2	4.2 6.2#



#24
 1,1-Dichloroethane
 Concen: 0.027 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.006 min
 Lab File: VL042955.D
 Acq: 22 Sep 2025 12:30

Tgt Ion: 63	Resp: 470
Ion Ratio	Lower Upper
63 100	
98 0.0	2.2 6.6#
100 0.0	1.4 4.0#





#25

Ethyl Acetate

Concen: 0.006 ppbv

RT: 2.829 min Scan# 847

Delta R.T. -0.000 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

Tgt Ion: 43 Resp: 303

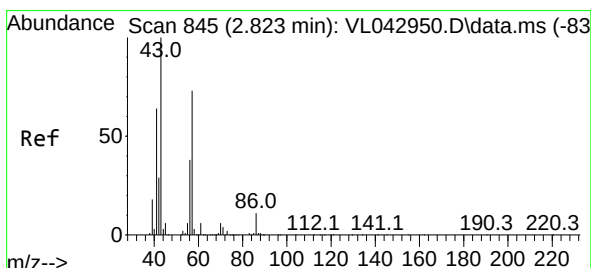
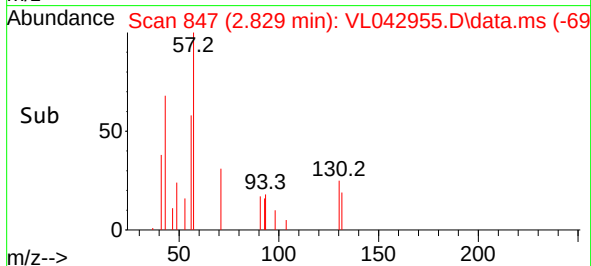
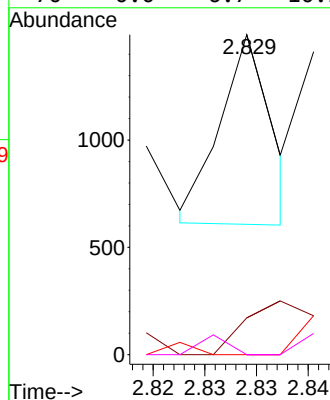
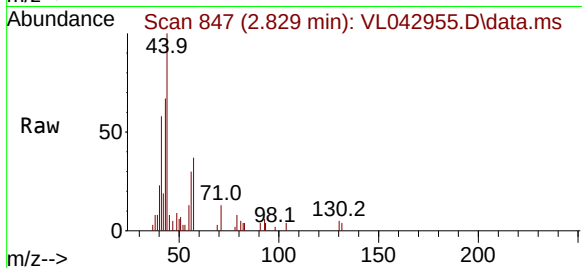
Ion Ratio Lower Upper

43 100

45 0.0 7.7 11.5#

61 0.0 7.1 10.7#

70 0.0 6.7 10.1#



#26

Hexane

Concen: 0.053 ppbv

RT: 2.826 min Scan# 846

Delta R.T. 0.003 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Tgt Ion: 57 Resp: 1295

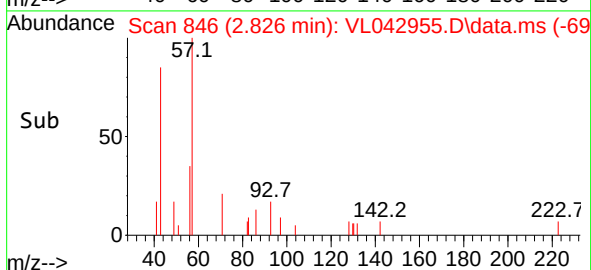
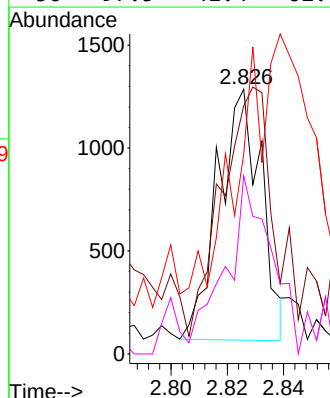
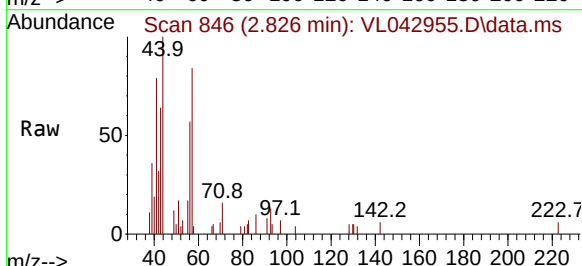
Ion Ratio Lower Upper

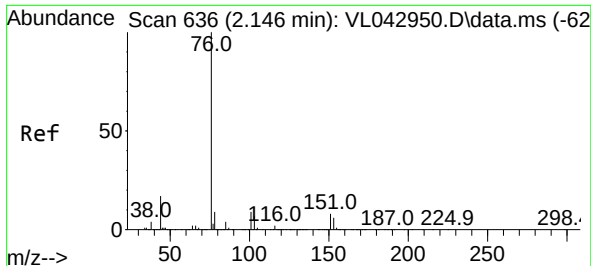
57 100

41 103.6 71.7 107.5

43 0.0 180.8 271.2#

56 97.5 41.4 62.0#





#27

Carbon Disulfide

Concen: 0.039 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.006 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

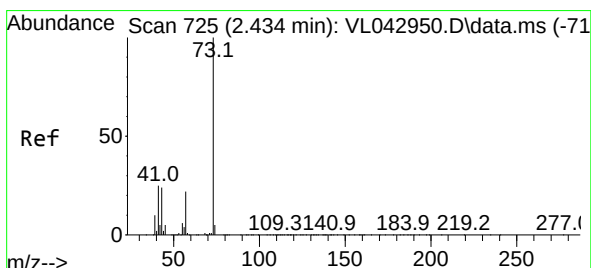
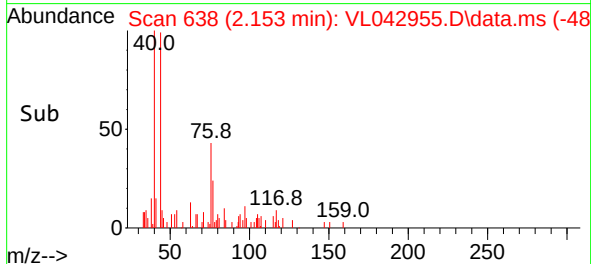
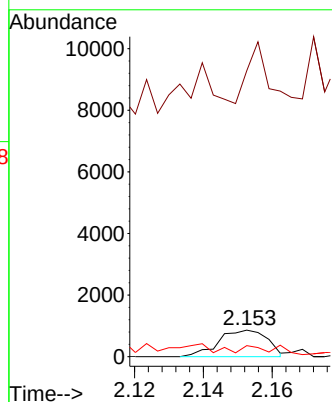
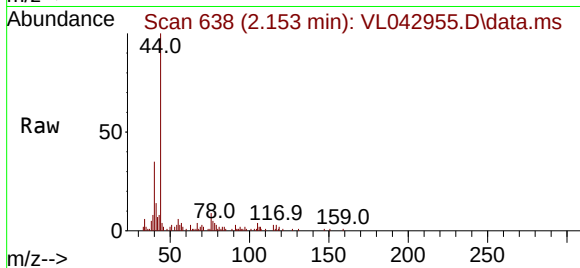
Tgt Ion: 76 Resp: 851

Ion Ratio Lower Upper

76 100

44 791.7 15.6 23.4#

78 0.0 8.9 13.3#



#28

Methyl tert-Butyl Ether

Concen: 0.047 ppbv

RT: 2.441 min Scan# 727

Delta R.T. 0.006 min

Lab File: VL042955.D

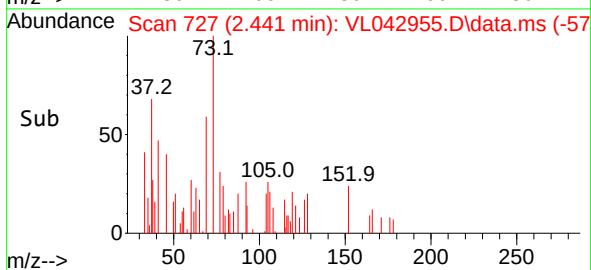
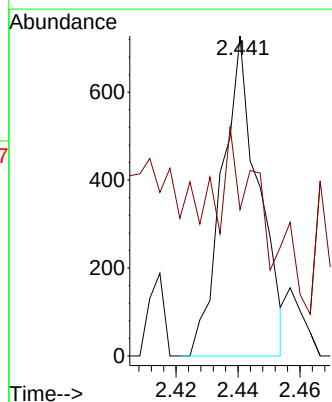
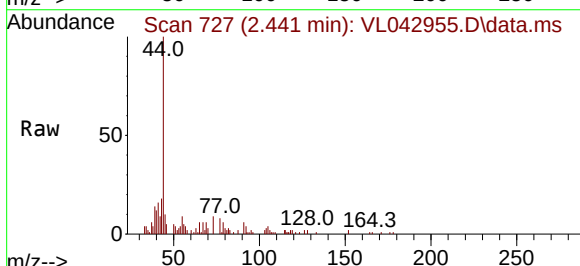
Acq: 22 Sep 2025 12:30

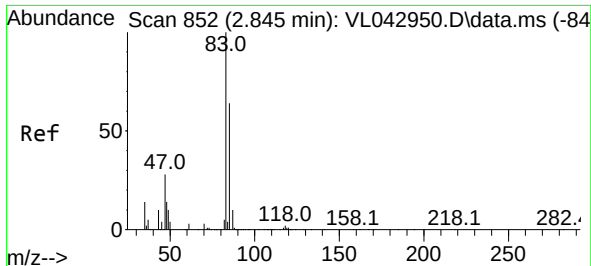
Tgt Ion: 73 Resp: 594

Ion Ratio Lower Upper

73 100

57 178.5 20.6 31.0#





#29

Chloroform

Concen: 0.003 ppbv

RT: 2.732 min Scan# 81

Delta R.T. -0.113 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_L

ClientSampleId :

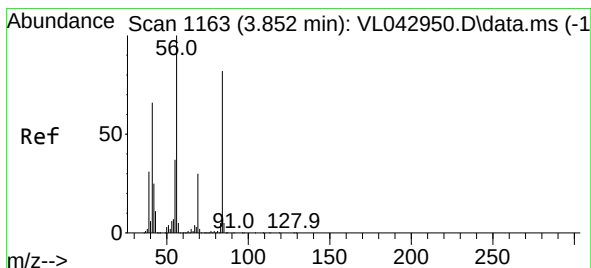
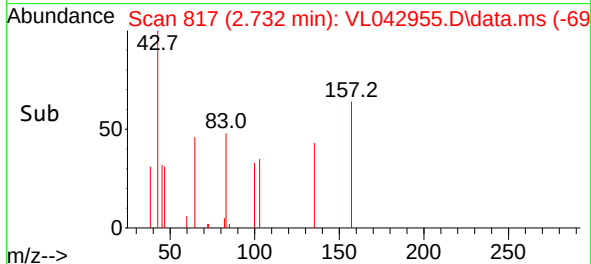
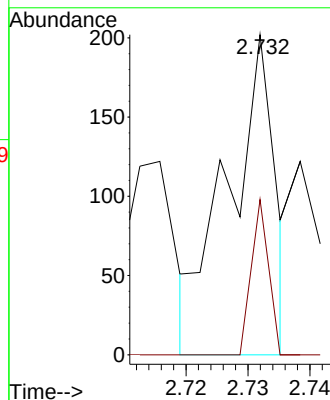
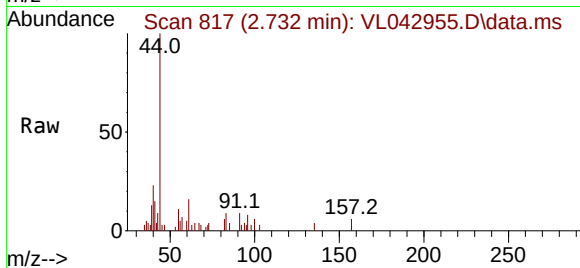
VSTDICC0.03

Tgt Ion: 83 Resp: 107

Ion Ratio Lower Upper

83 100

85 64.9 51.2 76.8



#30

Cyclohexane

Concen: 0.009 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.010 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

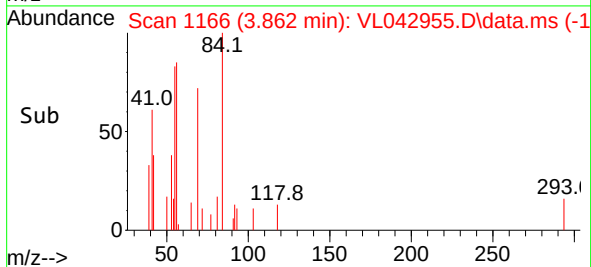
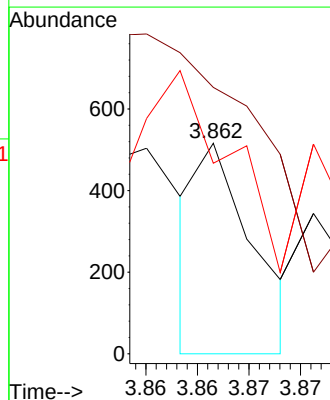
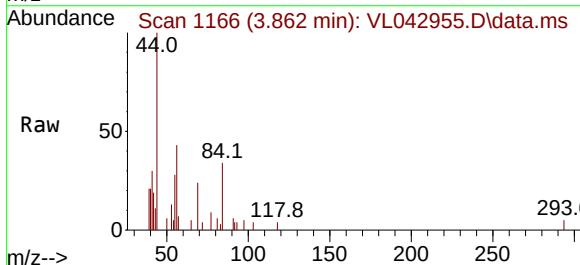
Tgt Ion: 84 Resp: 190

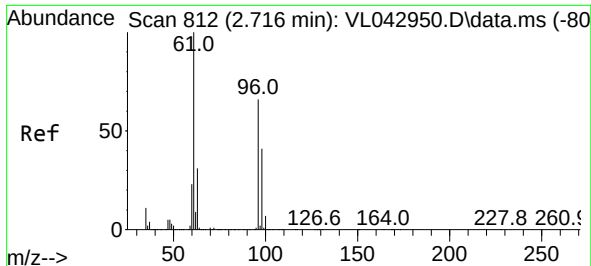
Ion Ratio Lower Upper

84 100

56 849.5 102.2 153.4#

41 0.0 65.6 98.4#

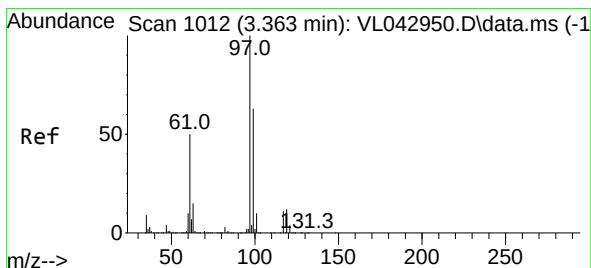
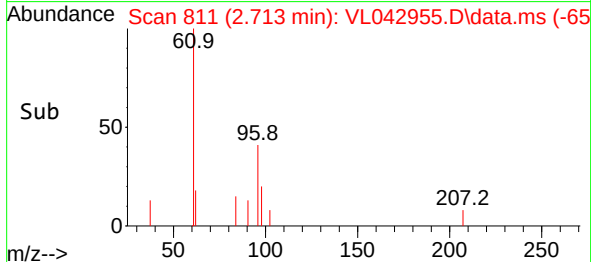
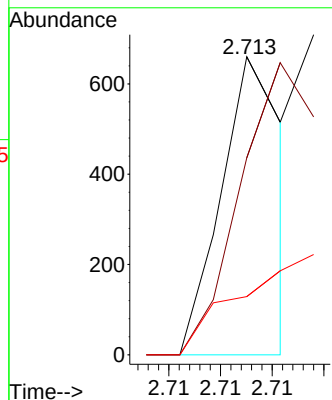
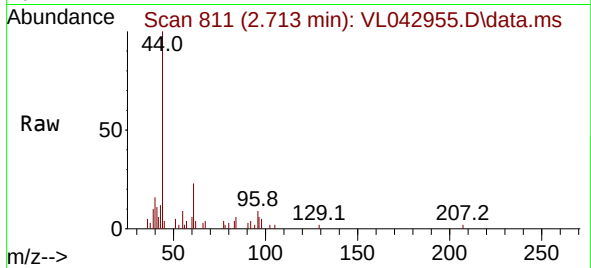




#31
 cis-1,2-Dichloroethene
 Concen: 0.012 ppbv
 RT: 2.713 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042955.D
 Acq: 22 Sep 2025 12:30

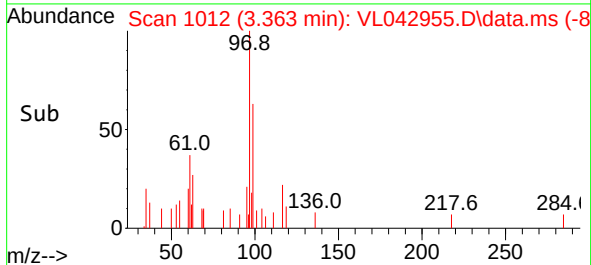
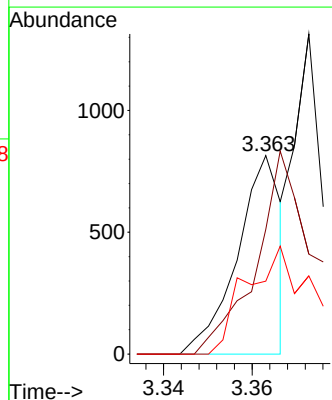
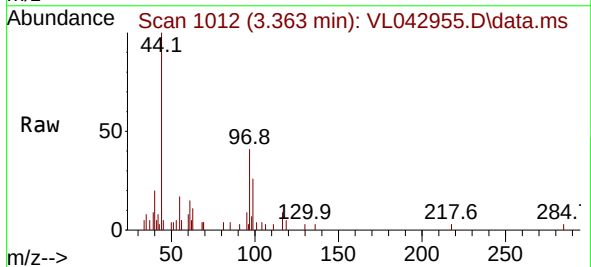
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

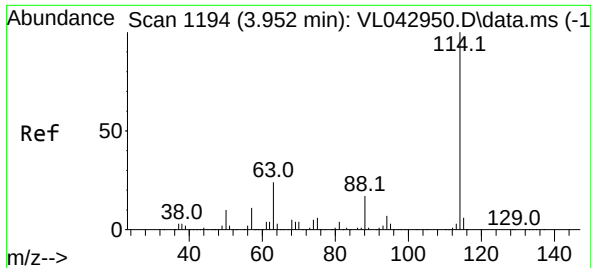
Tgt Ion: 61 Resp: 280
 Ion Ratio Lower Upper
 61 100
 96 66.1 53.0 79.6
 98 19.5 32.9 49.3#



#32
 1,1,1-Trichloroethane
 Concen: 0.016 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL042955.D
 Acq: 22 Sep 2025 12:30

Tgt Ion: 97 Resp: 562
 Ion Ratio Lower Upper
 97 100
 99 141.3 51.1 76.7#
 61 91.5 39.8 59.6#

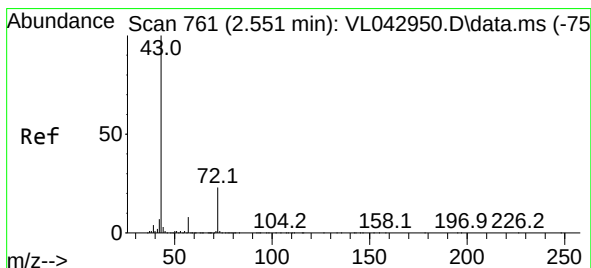
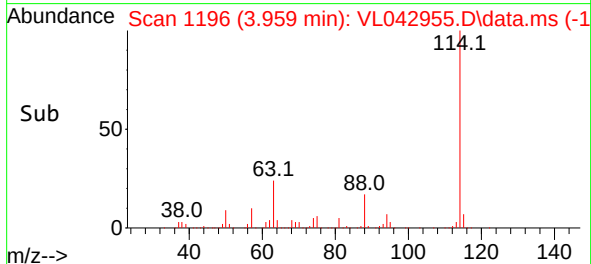
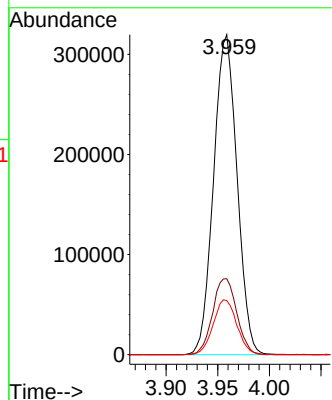
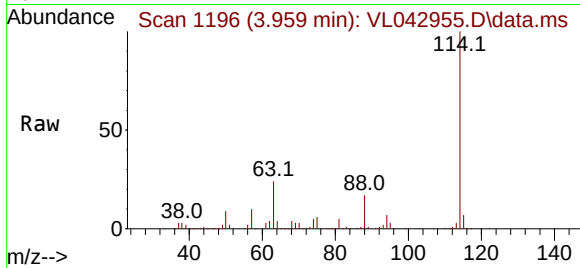




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

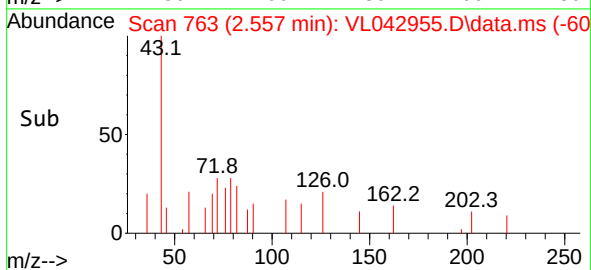
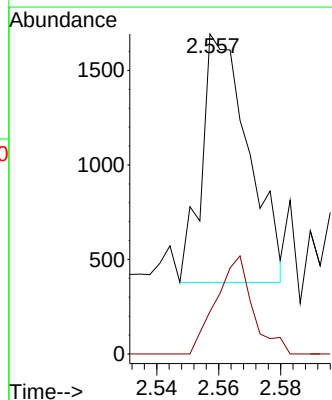
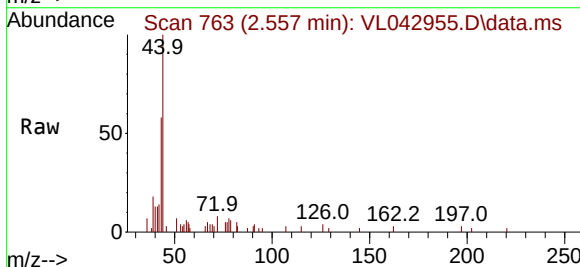
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

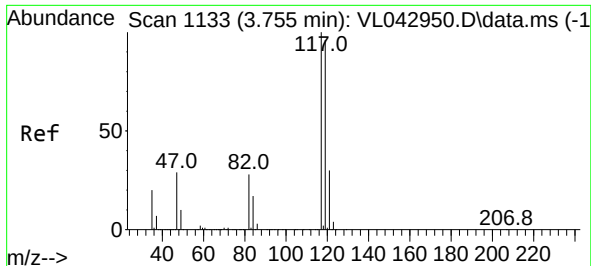
Tgt Ion:114 Resp: 504423
Ion Ratio Lower Upper
114 100
63 24.5 19.4 29.2
88 17.3 14.2 21.2



#34
2-Butanone
Concen: 0.039 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion: 43 Resp: 1365
Ion Ratio Lower Upper
43 100
72 31.1 17.7 26.5#

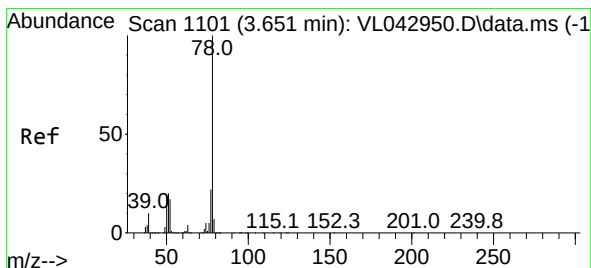
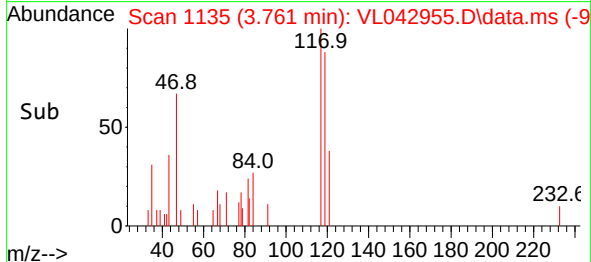
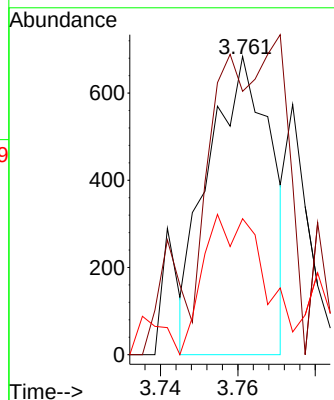
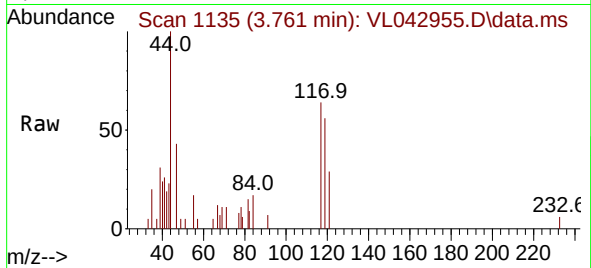




#35
Carbon Tetrachloride
Concen: 0.024 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.006 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

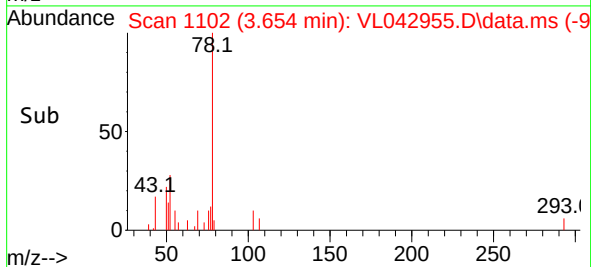
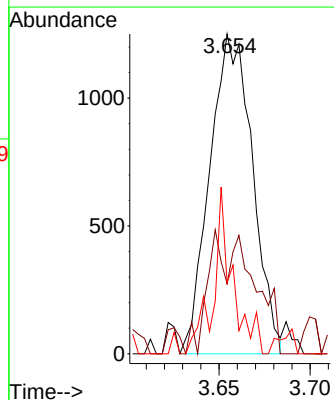
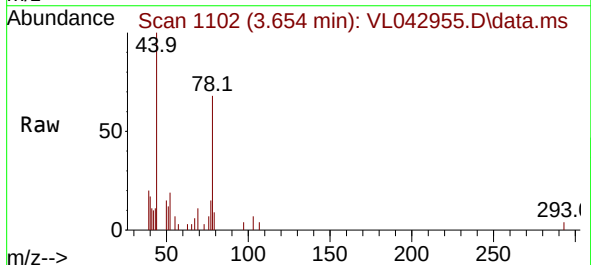
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

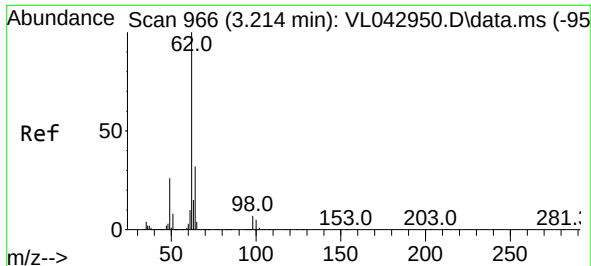
Tgt Ion:117 Resp: 771
Ion Ratio Lower Upper
117 100
119 80.3 76.9 115.3
121 56.4 23.7 35.5#



#36
Benzene
Concen: 0.043 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion: 78 Resp: 2042
Ion Ratio Lower Upper
78 100
77 21.9 17.8 26.6
50 17.9 15.0 22.4





#37

1,2-Dichloroethane

Concen: 0.038 ppbv

RT: 3.217 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_L

ClientSampleId :

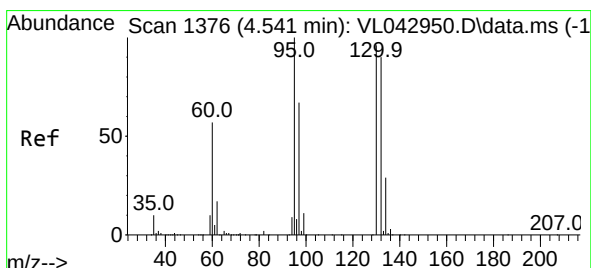
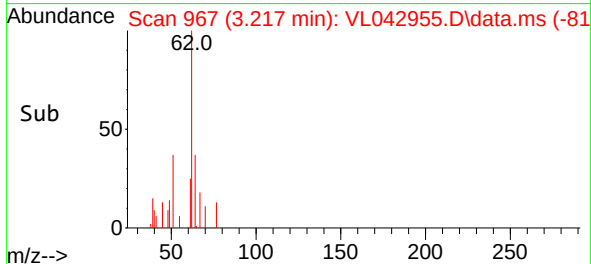
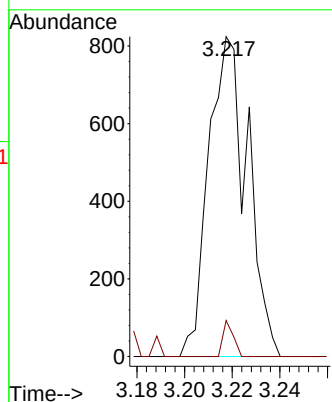
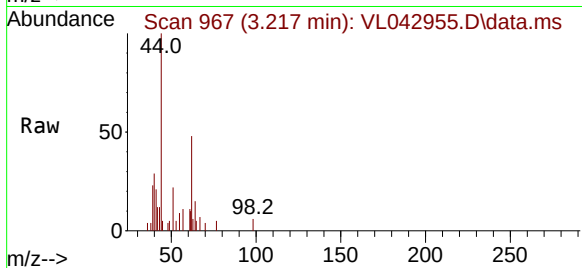
VSTDIC0.03

Tgt Ion: 62 Resp: 935

Ion Ratio Lower Upper

62 100

98 1.4 5.9 8.9#



#38

Trichloroethene

Concen: 0.015 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.010 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Tgt Ion:130 Resp: 363

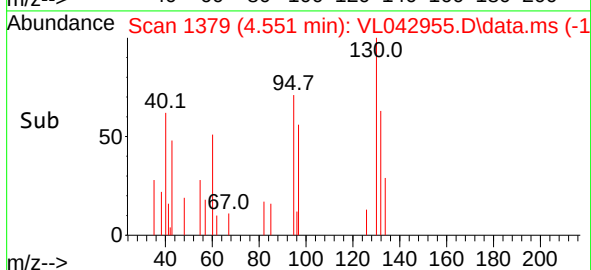
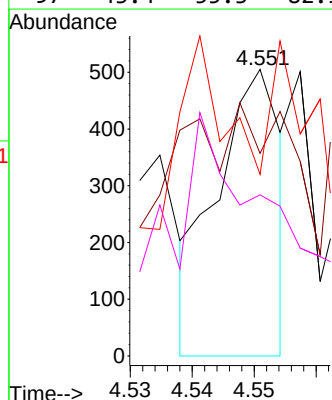
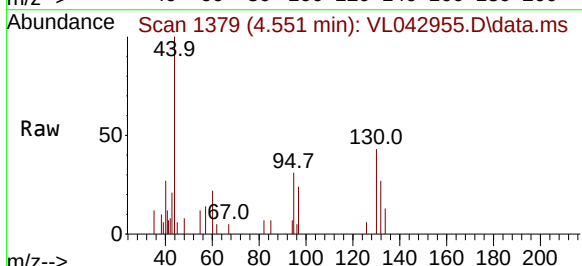
Ion Ratio Lower Upper

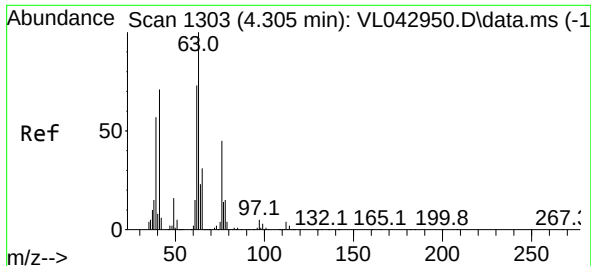
130 100

95 0.0 83.0 124.4#

132 0.0 74.6 112.0#

97 43.4 55.3 82.9#





#39

1,2-Dichloropropane

Concen: 7.144 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.346 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

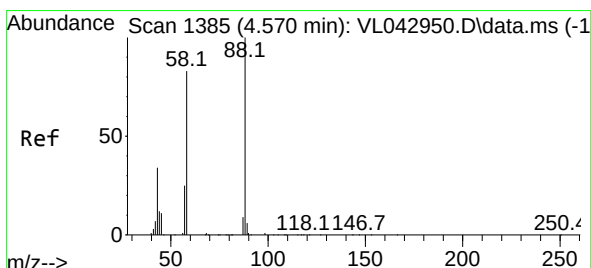
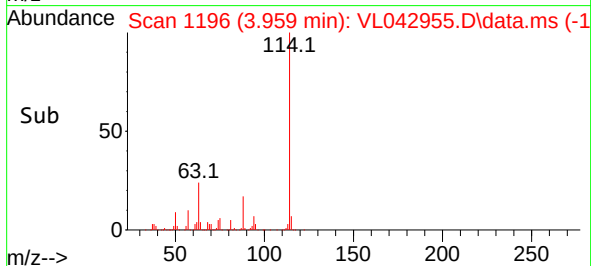
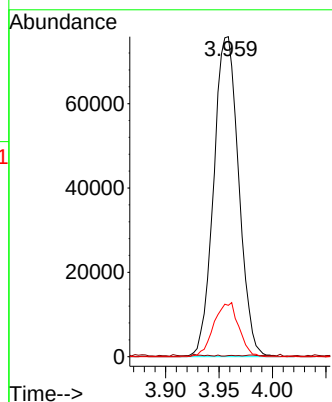
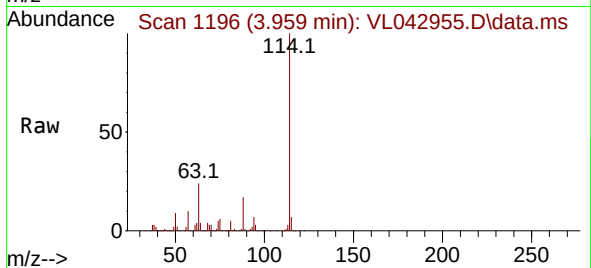
Tgt Ion: 63 Resp: 123623

Ion Ratio Lower Upper

63 100

41 0.0 57.5 86.3#

62 16.1 58.5 87.7#



#40

1,4-Dioxane

Concen: 0.022 ppbv

RT: 4.619 min Scan# 1400

Delta R.T. 0.048 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Tgt Ion: 88 Resp: 180

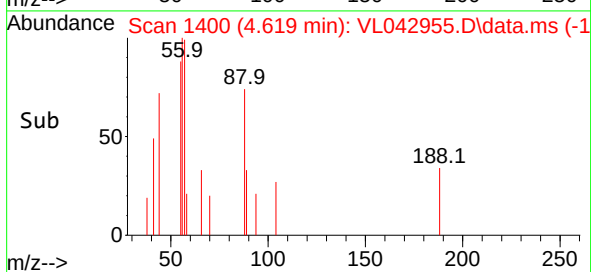
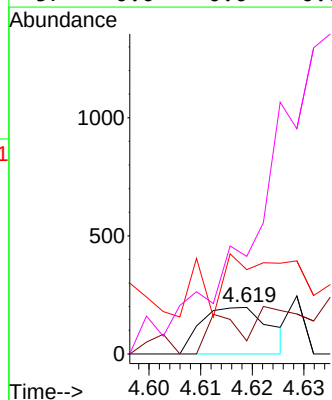
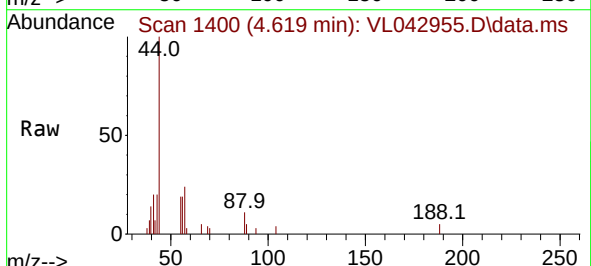
Ion Ratio Lower Upper

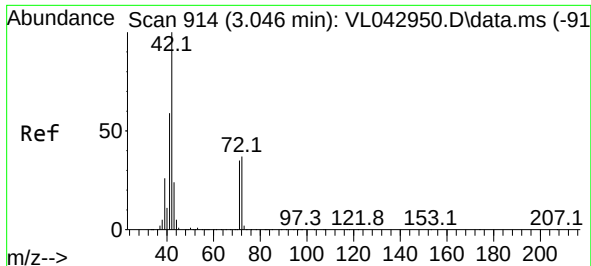
88 100

58 0.0 59.7 89.5#

43 94.4 28.9 43.3#

57 0.0 0.0 0.0

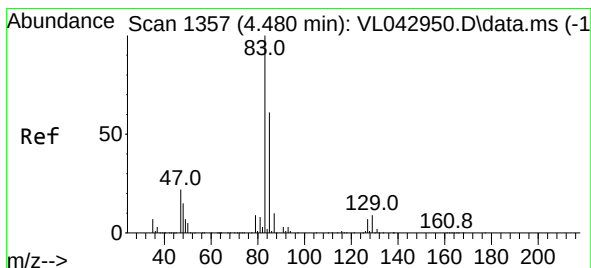
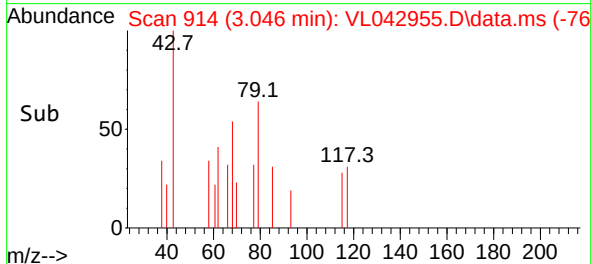
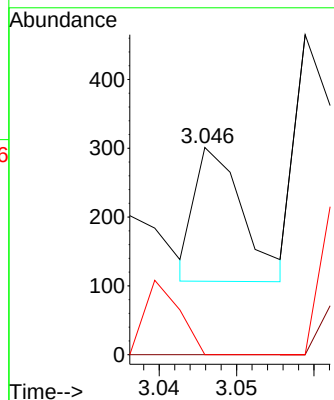
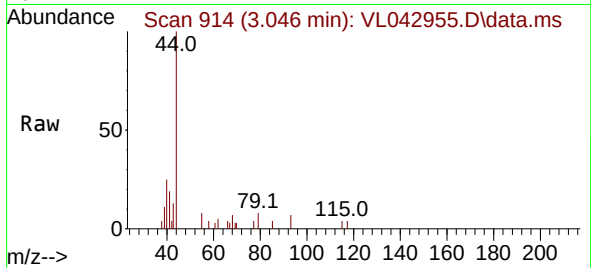




#41
Tetrahydrofuran
Concen: 0.004 ppbv
RT: 3.046 min Scan# 914
Delta R.T. -0.000 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

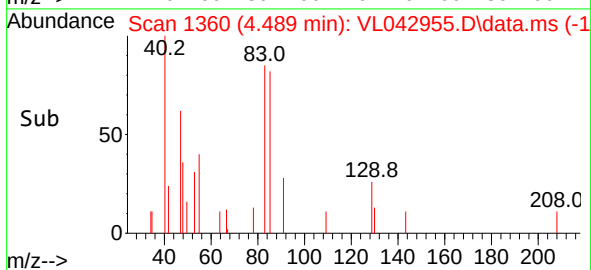
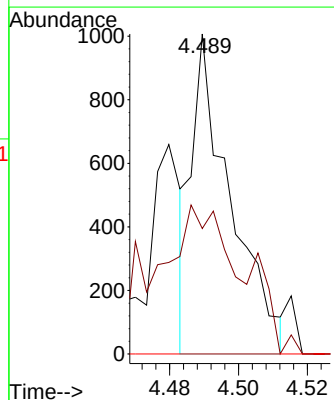
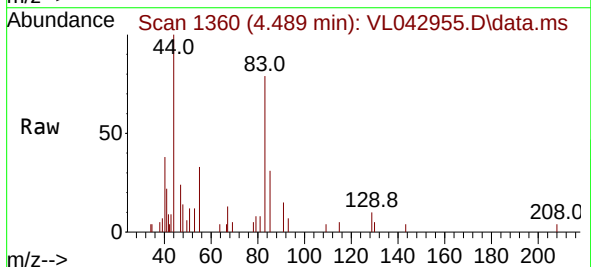
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

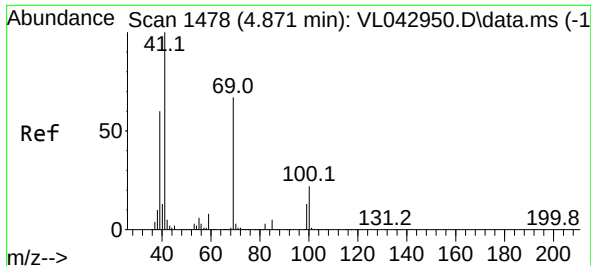
Tgt Ion: 42 Resp: 84
Ion Ratio Lower Upper
42 100
72 0.0 30.0 45.0#
71 0.0 28.8 43.2#



#42
Bromodichloromethane
Concen: 0.023 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.010 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion: 83 Resp: 785
Ion Ratio Lower Upper
83 100
85 44.3 49.0 73.6#
127 0.0 5.3 7.9#

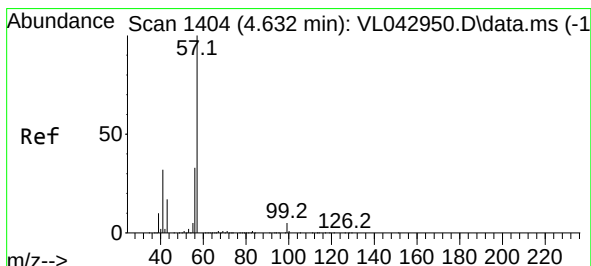
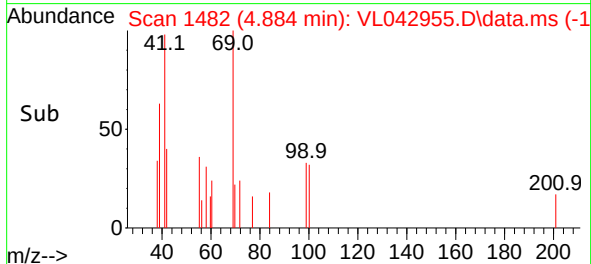
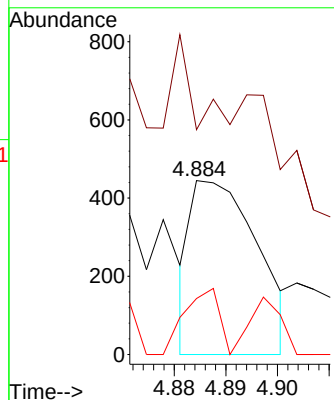
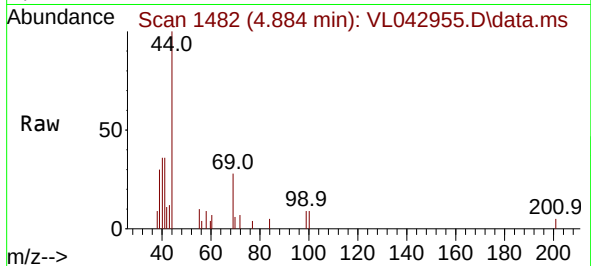




#43
Methyl Methacrylate
Concen: 0.021 ppbv
RT: 4.884 min Scan# 1478
Delta R.T. 0.013 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

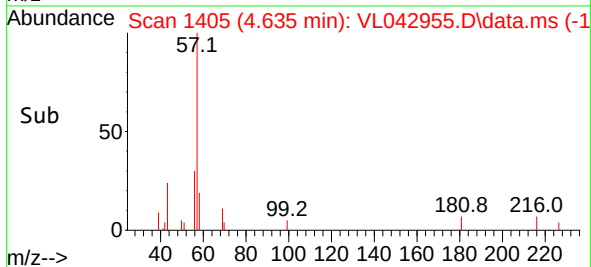
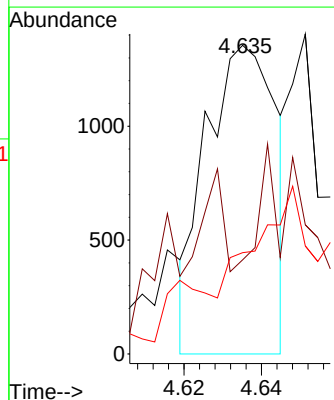
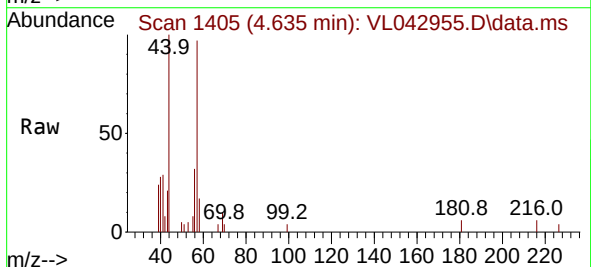
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

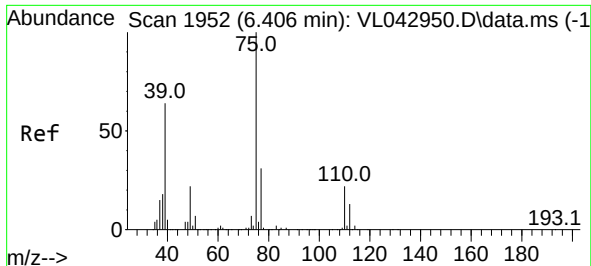
Tgt Ion: 69 Resp: 399
Ion Ratio Lower Upper
69 100
41 527.8 124.5 186.7#
100 35.3 29.0 43.6



#44
2,2,4-Trimethylpentane
Concen: 0.021 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.003 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion: 57 Resp: 1698
Ion Ratio Lower Upper
57 100
41 103.9 25.5 38.3#
56 0.0 25.8 38.8#





#45

t-1,3-Dichloropropene

Concen: 0.008 ppbv

RT: 6.402 min Scan# 1951

Delta R.T. -0.003 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_L

ClientSampleId :

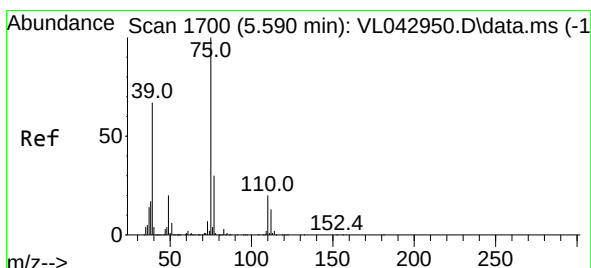
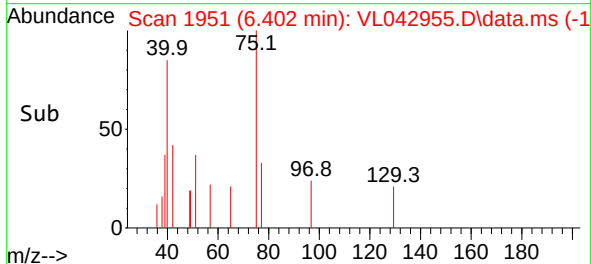
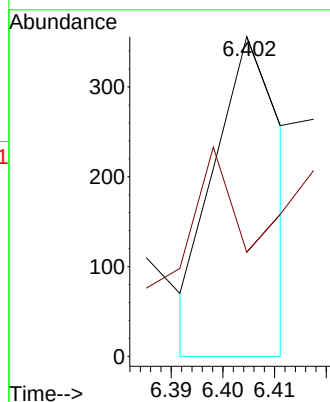
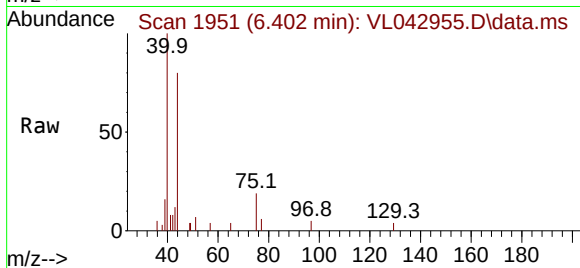
VSTDIC0.03

Tgt Ion: 75 Resp: 159

Ion Ratio Lower Upper

75 100

77 32.6 25.0 37.4



#46

cis-1,3-Dichloropropene

Concen: 0.016 ppbv

RT: 5.600 min Scan# 1703

Delta R.T. 0.010 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

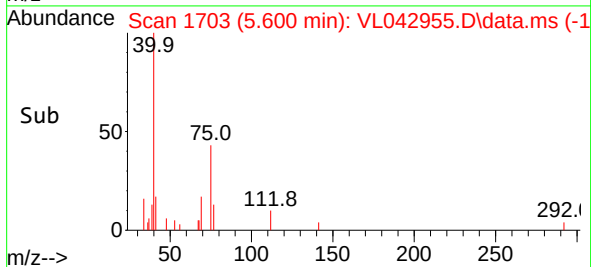
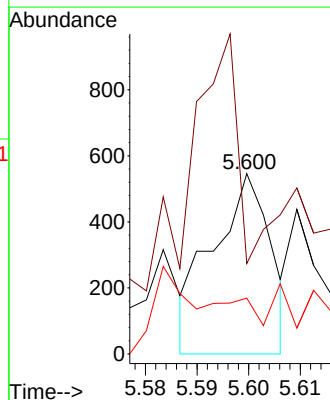
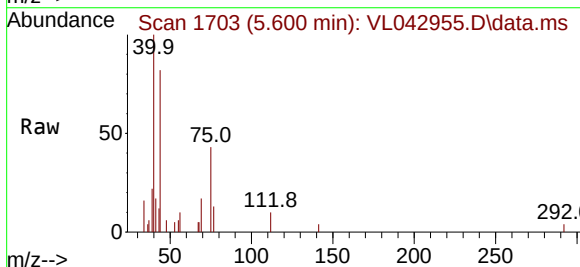
Tgt Ion: 75 Resp: 424

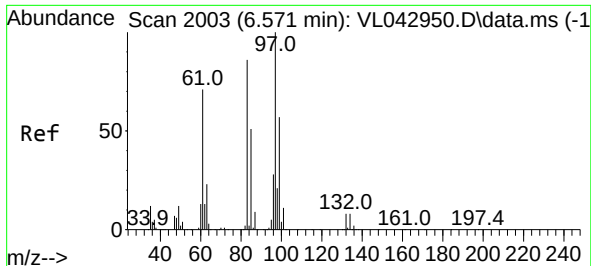
Ion Ratio Lower Upper

75 100

39 4.1 53.8 80.6#

77 0.0 23.6 35.4#

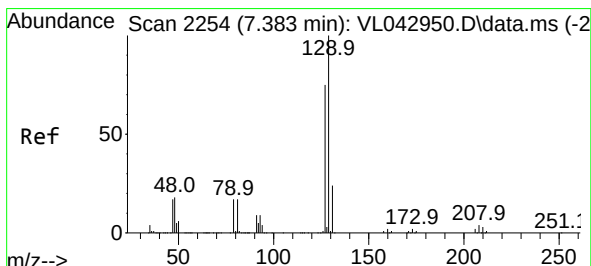
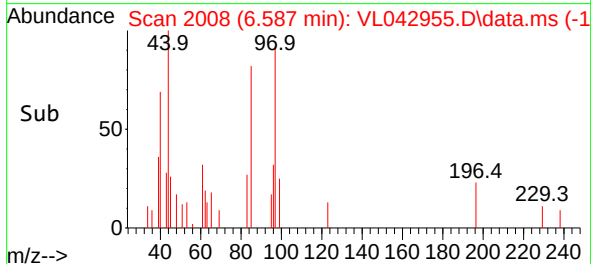
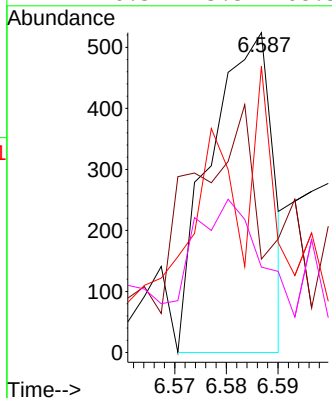
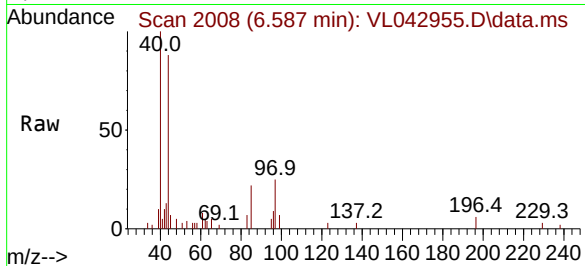




#47
1,1,2-Trichloroethane
Concen: 0.024 ppbv
RT: 6.587 min Scan# 2008
Delta R.T. 0.016 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

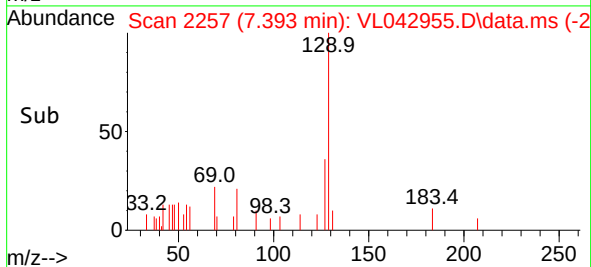
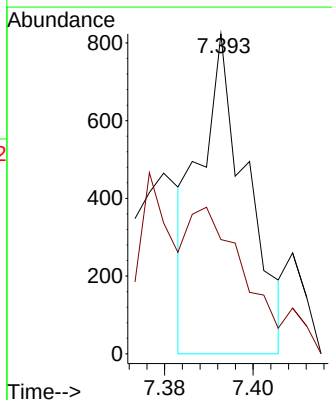
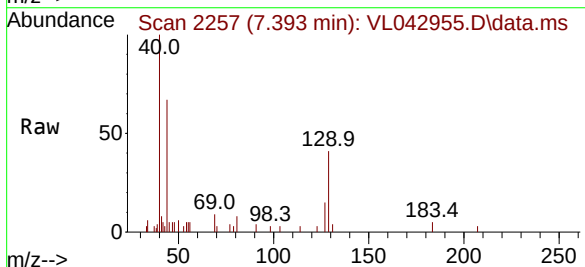
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

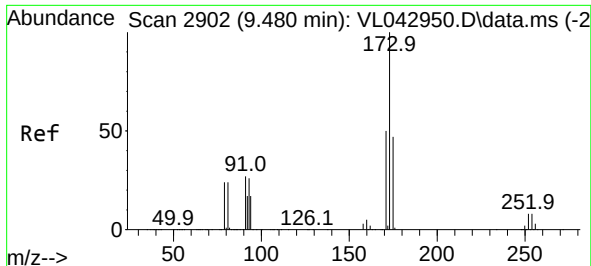
Tgt Ion: 97 Resp: 443
Ion Ratio Lower Upper
97 100
83 0.0 68.7 103.1#
85 59.5 40.6 60.8
99 10.5 45.5 68.3#



#48
Dibromochloromethane
Concen: 0.021 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.010 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion: 129 Resp: 612
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#





#49

Bromoform

Concen: 0.030 ppbv

RT: 9.484 min Scan# 2902

Delta R.T. 0.003 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

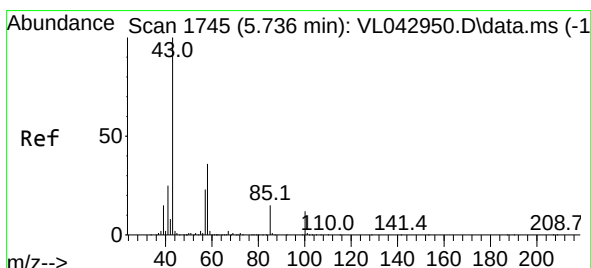
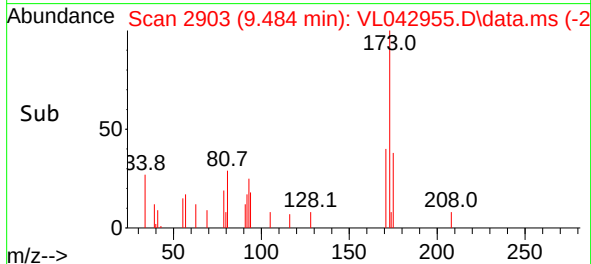
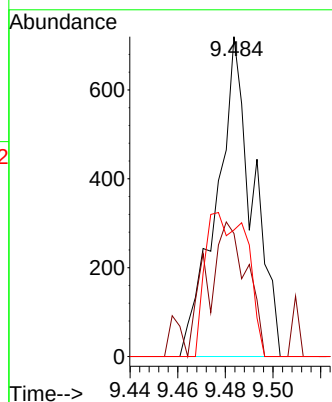
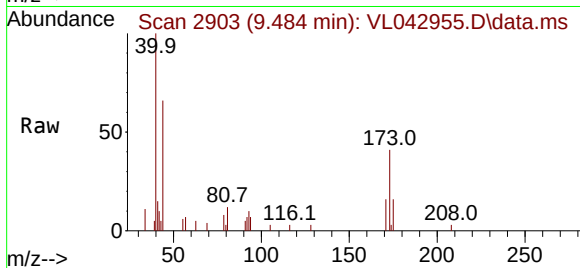
Tgt Ion:173 Resp: 766

Ion Ratio Lower Upper

173 100

175 53.1 37.9 56.9

171 51.4 41.1 61.7



#50

4-Methyl-2-Pentanone

Concen: 0.001 ppbv

RT: 5.742 min Scan# 1747

Delta R.T. 0.006 min

Lab File: VL042955.D

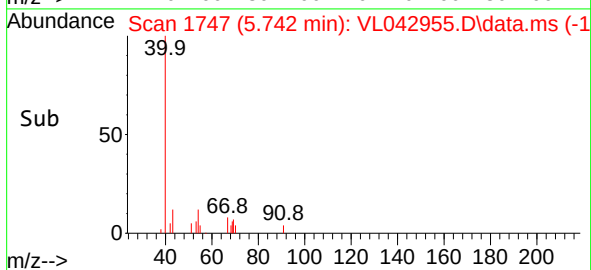
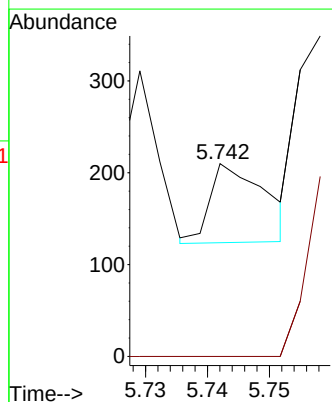
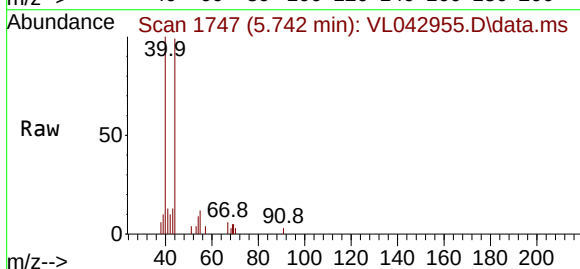
Acq: 22 Sep 2025 12:30

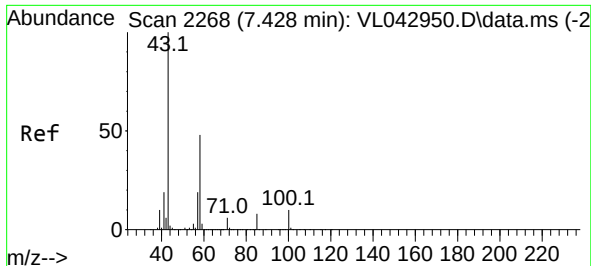
Tgt Ion: 43 Resp: 53

Ion Ratio Lower Upper

43 100

58 0.0 28.4 42.6#

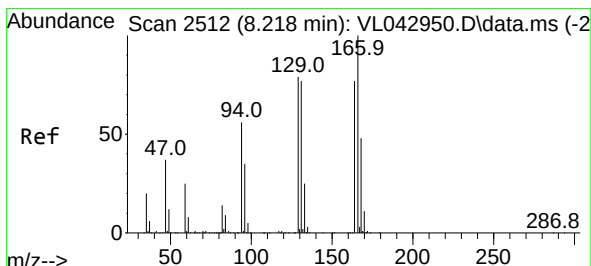
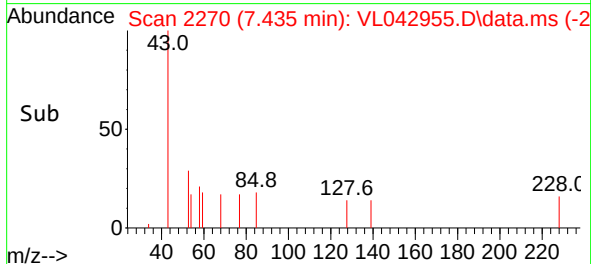
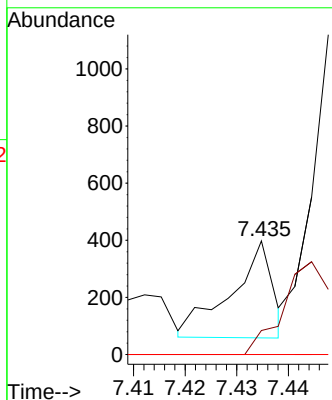
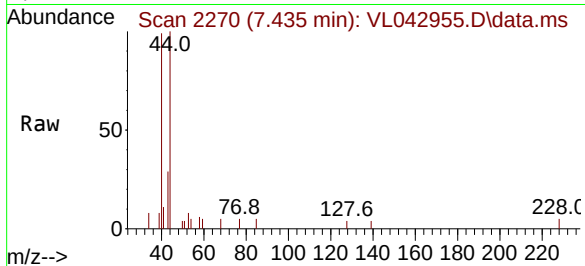




#51
2-Hexanone
Concen: 0.005 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

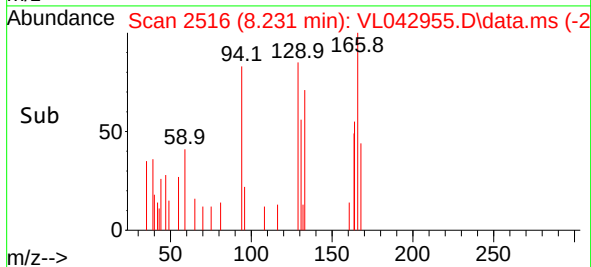
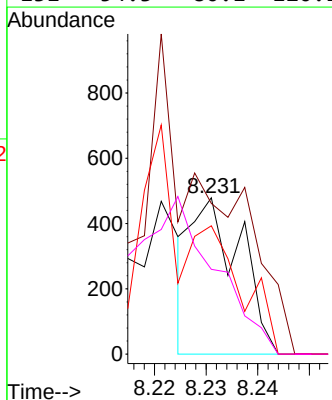
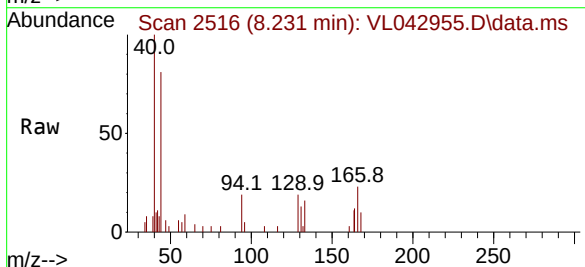
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

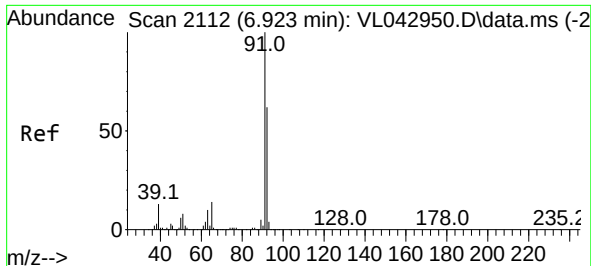
Tgt Ion: 43 Resp: 189
Ion Ratio Lower Upper
43 100
58 0.0 39.7 59.5#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.017 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.013 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion: 164 Resp: 316
Ion Ratio Lower Upper
164 100
166 52.0 103.5 155.3#
129 82.0 82.2 123.4#
131 54.3 80.1 120.1#

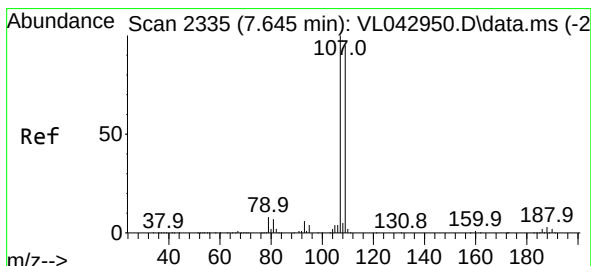
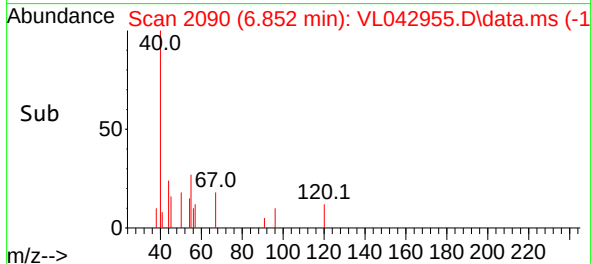
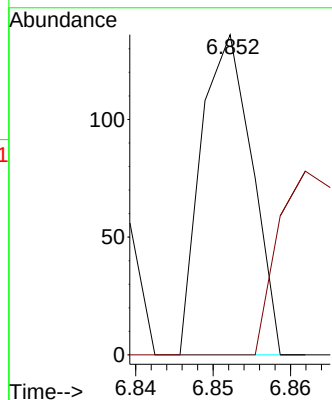
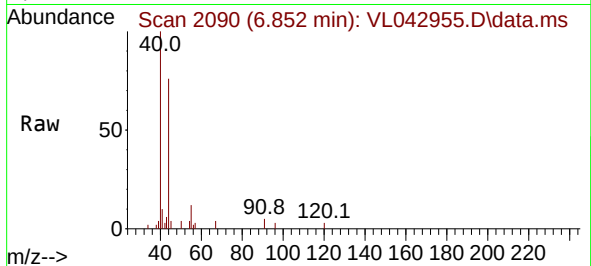




#53
Toluene
Concen: 0.001 ppbv
RT: 6.852 min Scan# 2112
Delta R.T. -0.071 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

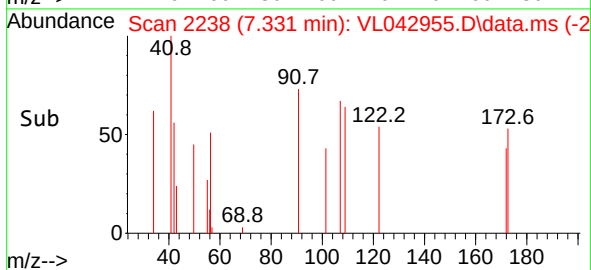
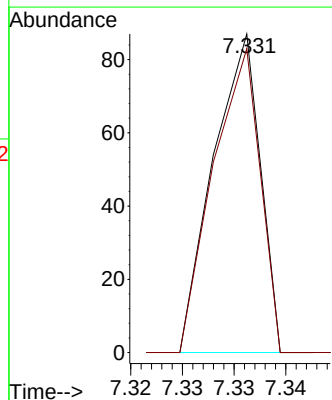
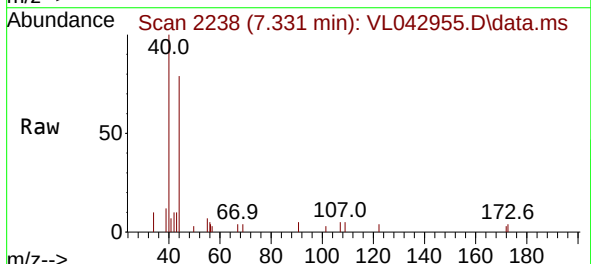
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

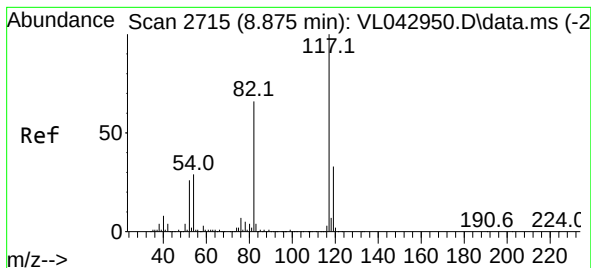
Tgt Ion: 91 Resp: 62
Ion Ratio Lower Upper
91 100
92 64.5 48.2 72.2



#54
1,2-Dibromoethane
Concen: 0.001 ppbv
RT: 7.331 min Scan# 2238
Delta R.T. -0.314 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion: 107 Resp: 27
Ion Ratio Lower Upper
107 100
109 95.4 75.8 113.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2715

Delta R.T. 0.006 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

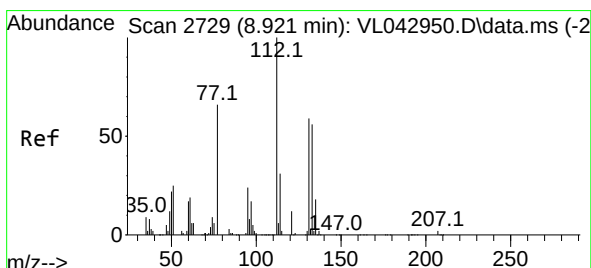
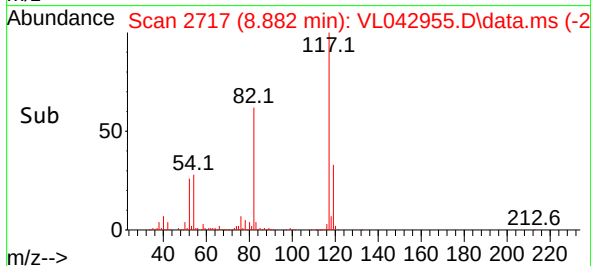
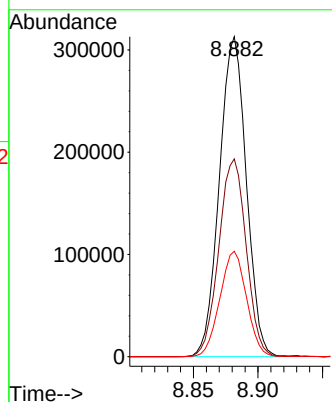
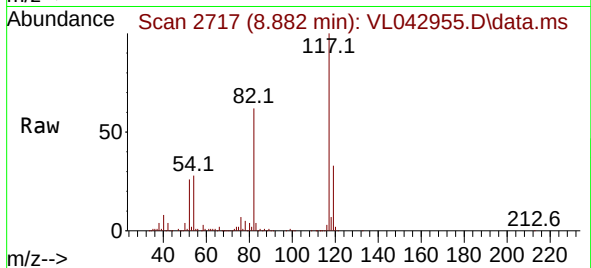
Tgt Ion:117 Resp: 454013

Ion Ratio Lower Upper

117 100

82 62.9 52.8 79.2

119 32.8 26.5 39.7



#56

1,1,1,2-Tetrachloroethane

Concen: 0.046 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. 0.006 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

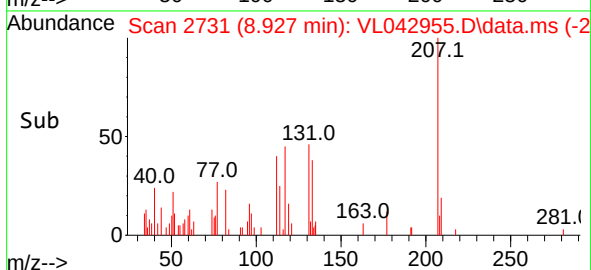
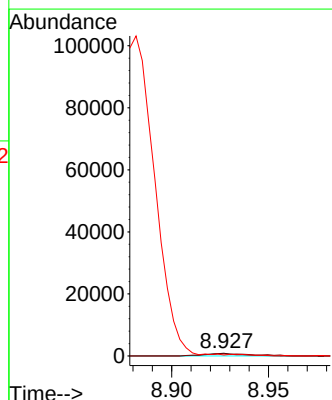
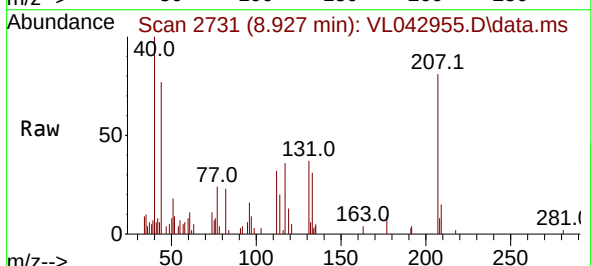
Tgt Ion:131 Resp: 1008

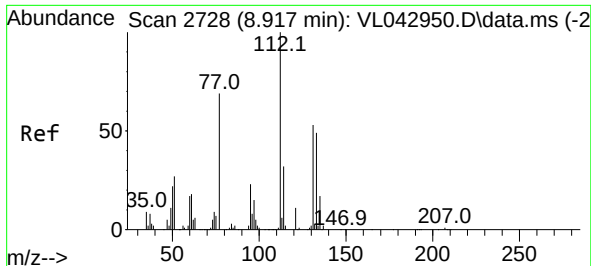
Ion Ratio Lower Upper

131 100

133 131.1 76.6 114.8#

119 14796.4 49.9 74.9#

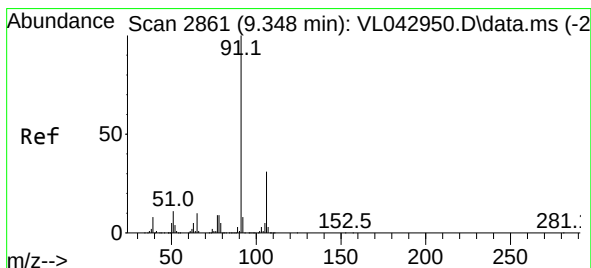
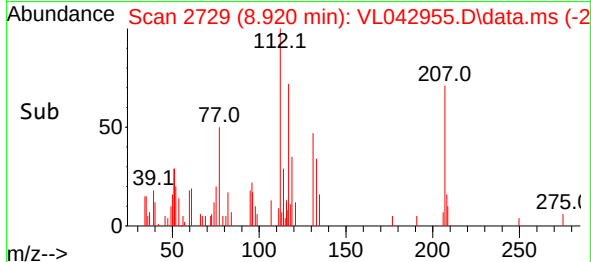
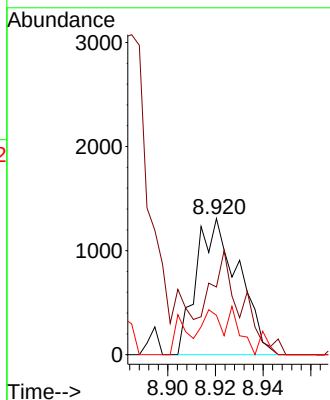
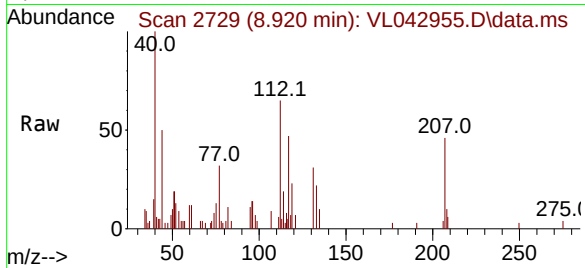




#57
Chlorobenzene
Concen: 0.039 ppbv
RT: 8.920 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

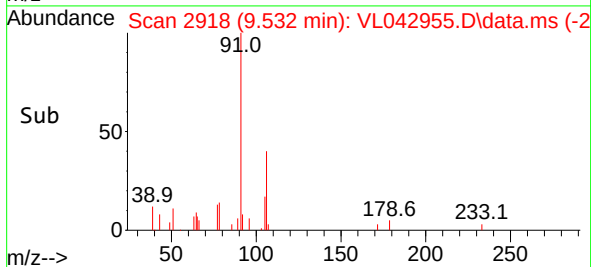
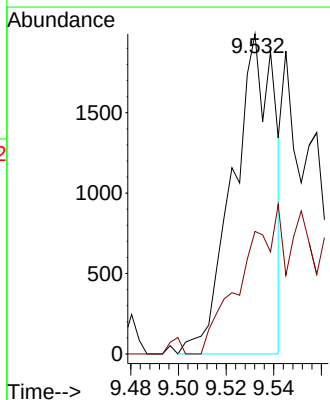
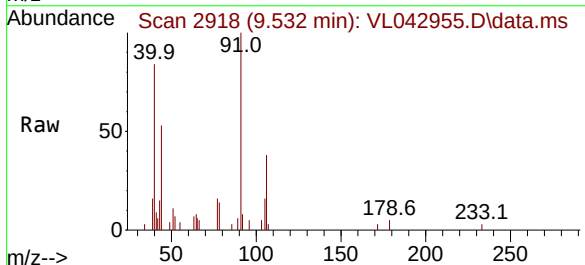
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

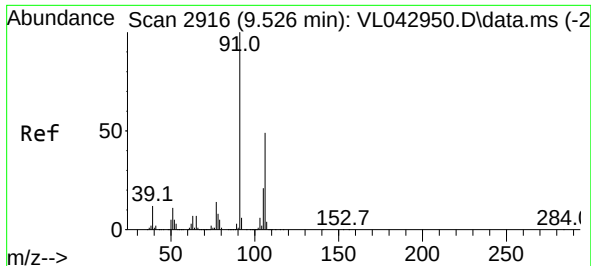
Tgt Ion:112 Resp: 1619
Ion Ratio Lower Upper
112 100
77 38.2 55.7 83.5#
114 24.4 28.6 35.0#



#58
Ethyl Benzene
Concen: 0.032 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. 0.184 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion: 91 Resp: 2417
Ion Ratio Lower Upper
91 100
106 33.2 24.6 37.0





#59

m/p-Xylene

Concen: 0.041 ppbv

RT: 9.532 min Scan# 2916

Delta R.T. 0.006 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_L

ClientSampleId :

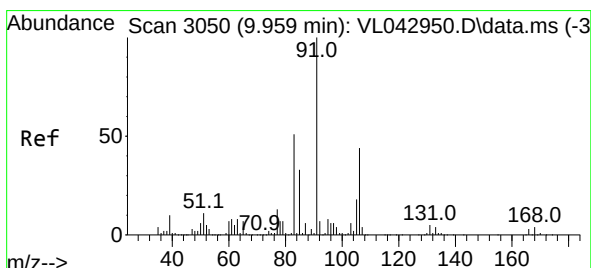
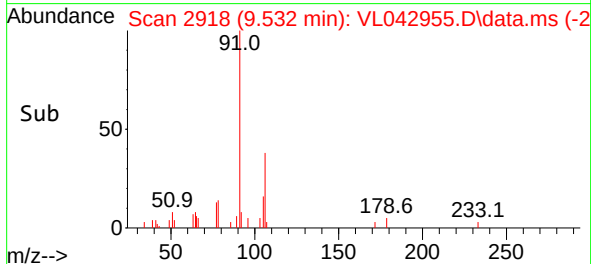
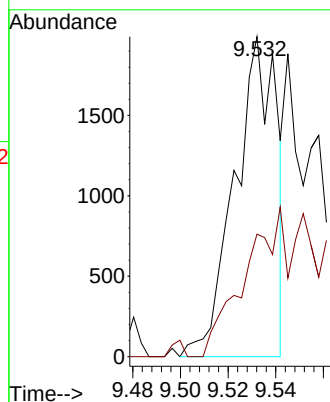
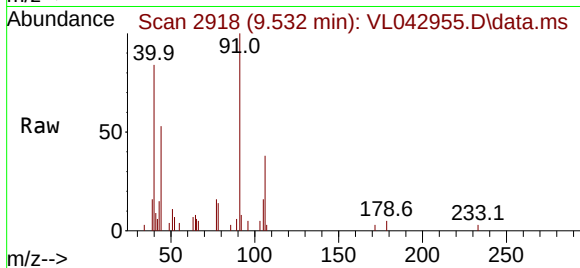
VSTDICC0.03

Tgt Ion: 91 Resp: 2417

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 0.040 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.006 min

Lab File: VL042955.D

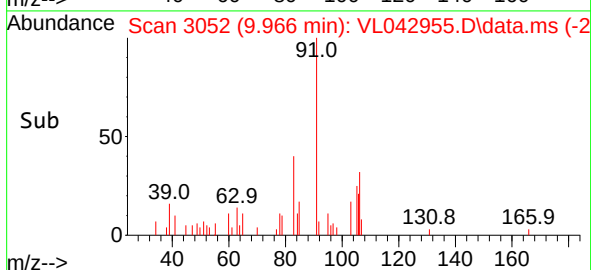
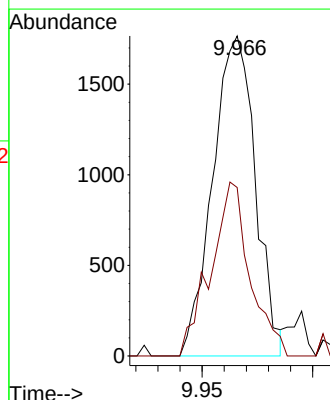
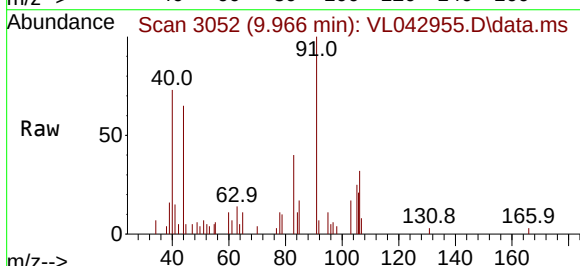
Acq: 22 Sep 2025 12:30

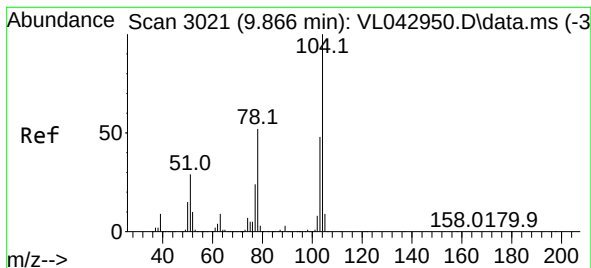
Tgt Ion: 91 Resp: 2366

Ion Ratio Lower Upper

91 100

106 49.9 22.4 67.0





#61

Styrene

Concen: 0.022 ppbv

RT: 9.875 min Scan# 3021

Delta R.T. 0.010 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

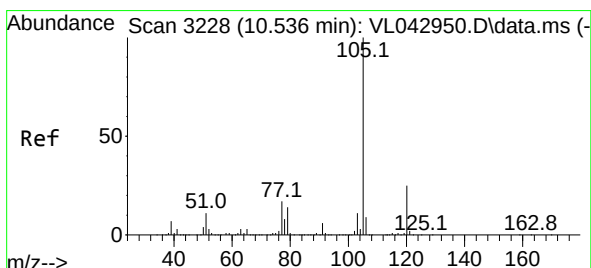
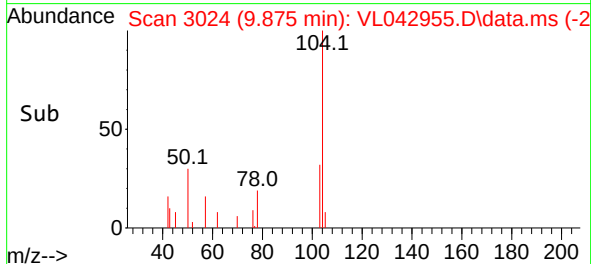
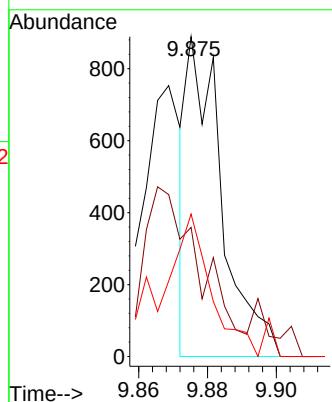
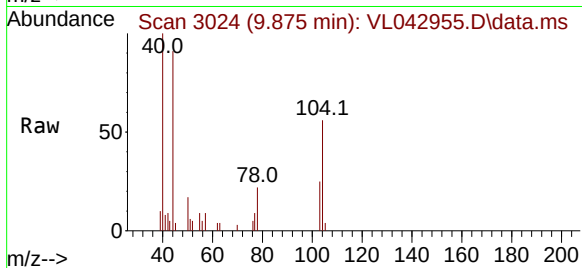
Tgt Ion:104 Resp: 621

Ion Ratio Lower Upper

104 100

78 0.0 39.9 59.9#

103 76.0 36.9 55.3#



#62

Isopropylbenzene

Concen: 0.036 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. 0.003 min

Lab File: VL042955.D

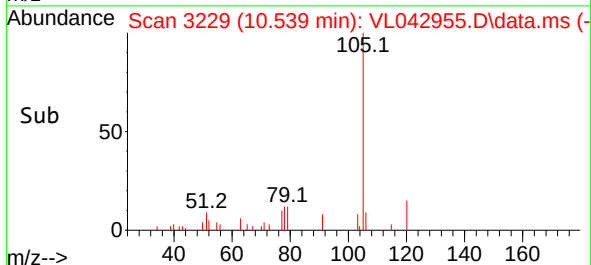
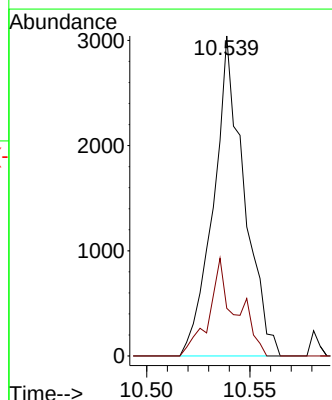
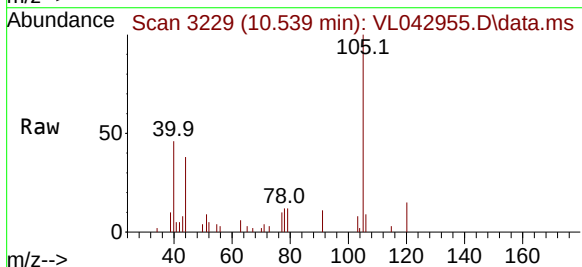
Acq: 22 Sep 2025 12:30

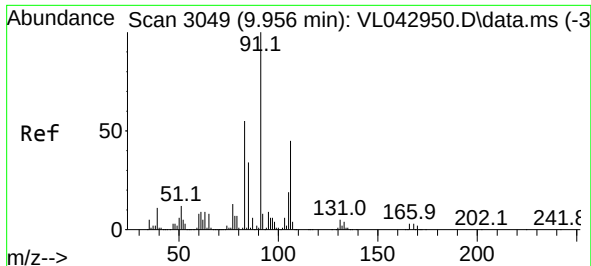
Tgt Ion:105 Resp: 3139

Ion Ratio Lower Upper

105 100

120 26.9 20.6 30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.033 ppbv

RT: 9.959 min Scan# 3049

Delta R.T. 0.003 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

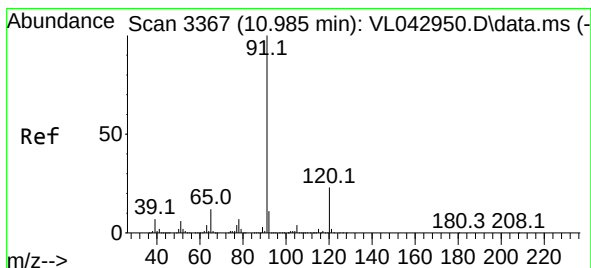
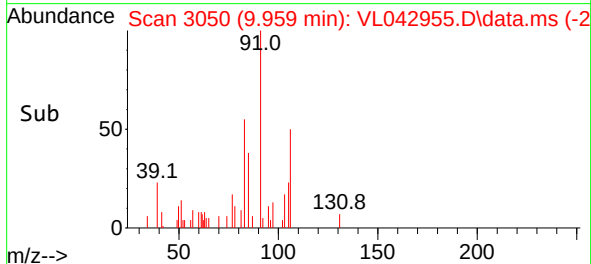
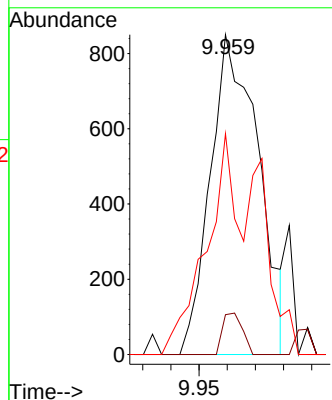
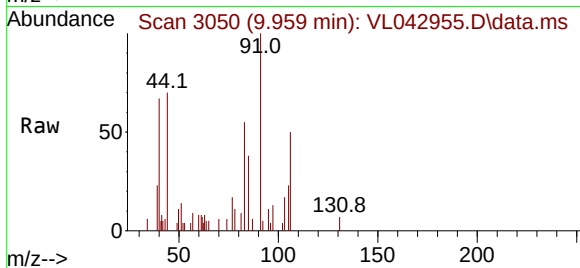
Tgt Ion: 83 Resp: 1006

Ion Ratio Lower Upper

83 100

131 5.4 4.8 14.4

85 73.6 32.2 96.6



#64

n-propylbenzene

Concen: 0.033 ppbv

RT: 10.992 min Scan# 3369

Delta R.T. 0.006 min

Lab File: VL042955.D

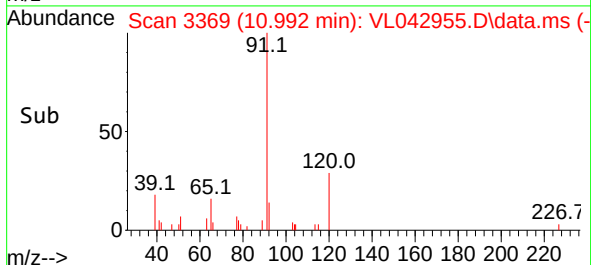
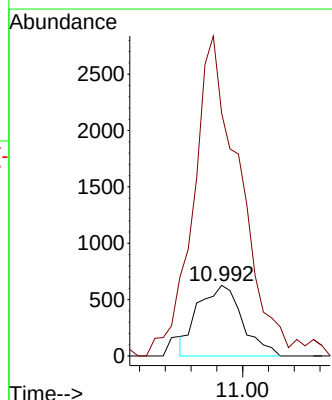
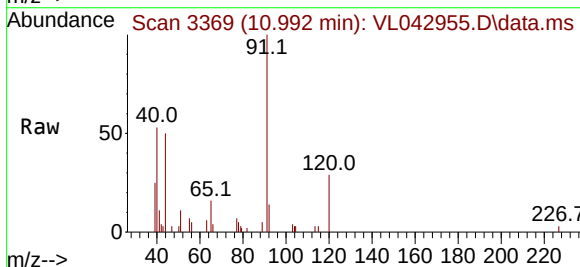
Acq: 22 Sep 2025 12:30

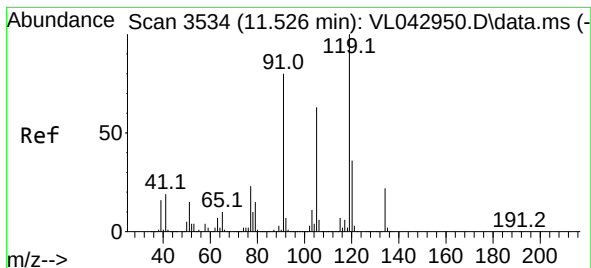
Tgt Ion: 120 Resp: 745

Ion Ratio Lower Upper

120 100

91 489.7 364.9 547.3





#65

tert-Butylbenzene

Concen: 0.036 ppbv

RT: 11.526 min Scan# 3534

Delta R.T. -0.000 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

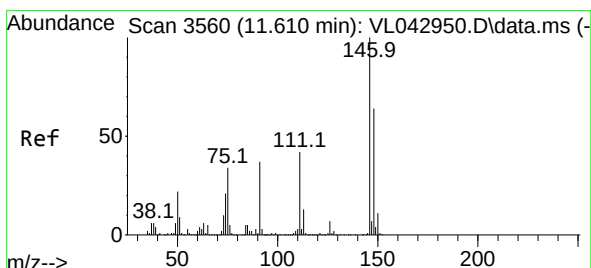
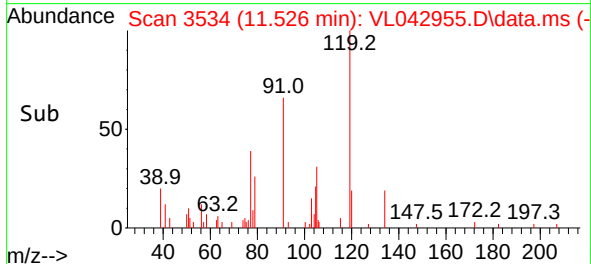
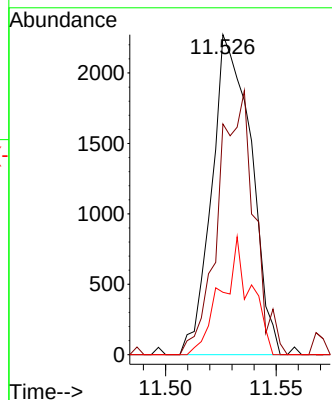
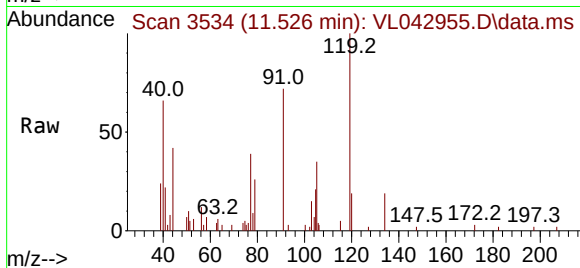
Tgt Ion:119 Resp: 2797

Ion Ratio Lower Upper

119 100

91 77.9 63.1 94.7

134 27.9 17.0 25.6#



#66

Benzyl Chloride

Concen: 0.013 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. 0.003 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

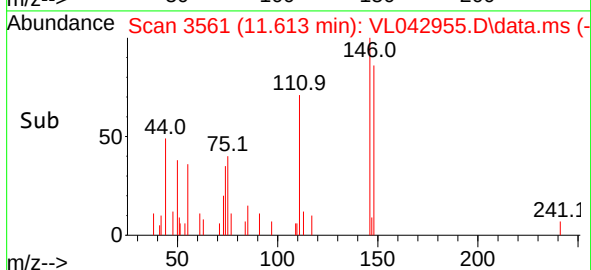
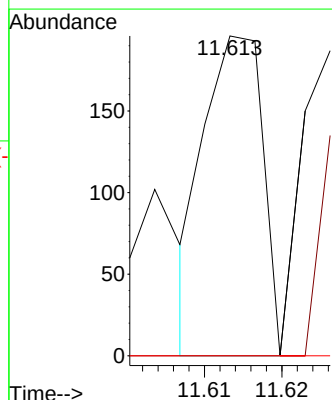
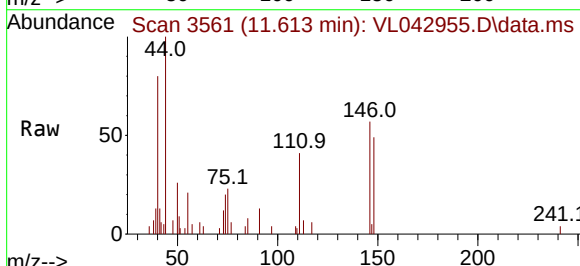
Tgt Ion: 91 Resp: 103

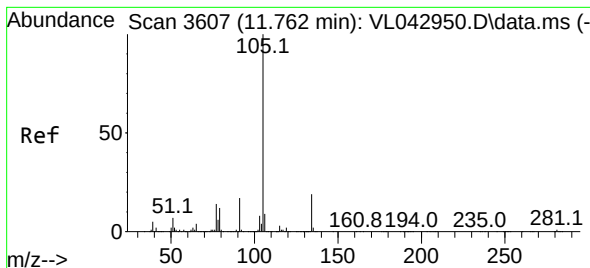
Ion Ratio Lower Upper

91 100

126 0.0 14.6 21.8#

128 0.0 5.0 7.4#





#67

sec-Butylbenzene

Concen: 0.035 ppbv

RT: 11.765 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_1

ClientSampleId :

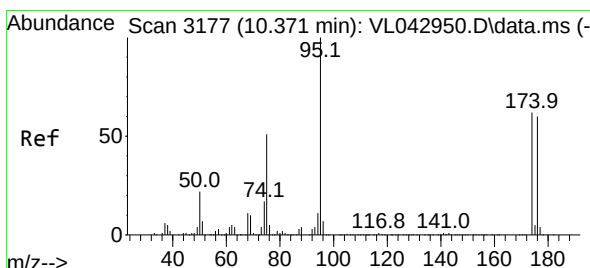
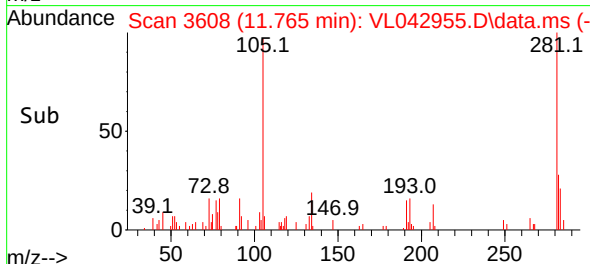
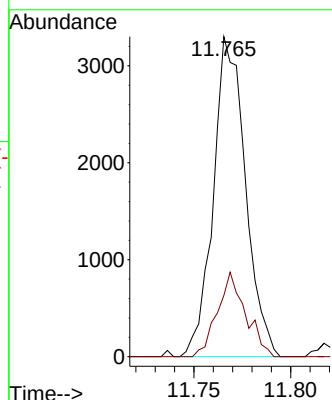
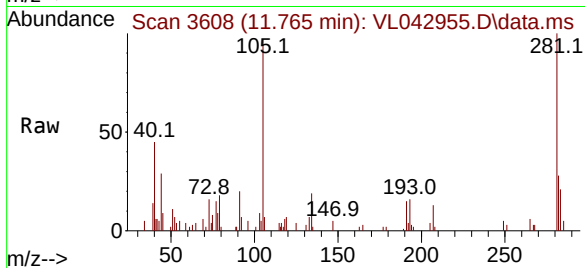
VSTDIC0.03

Tgt Ion:105 Resp: 3805

Ion Ratio Lower Upper

105 100

134 23.3 15.7 23.5



#68

1-Bromo-4-Fluorobenzene

Concen: 9.855 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.006 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

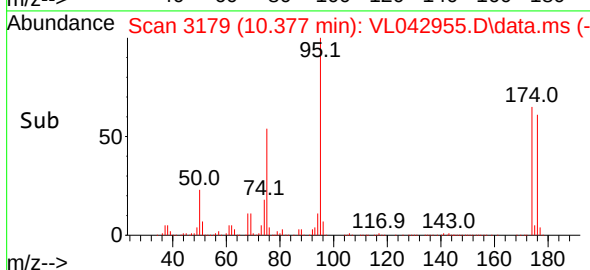
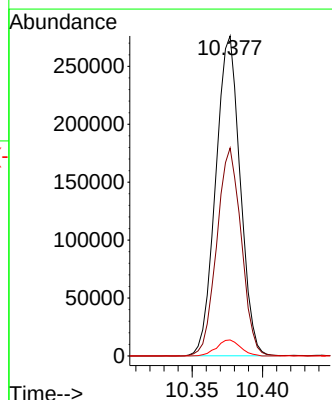
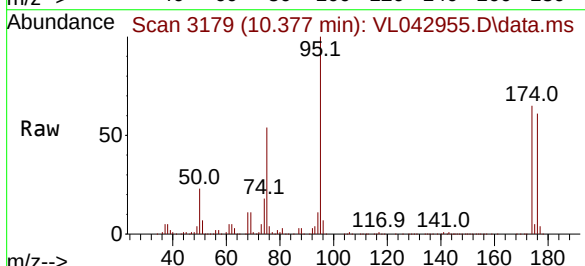
Tgt Ion: 95 Resp: 334002

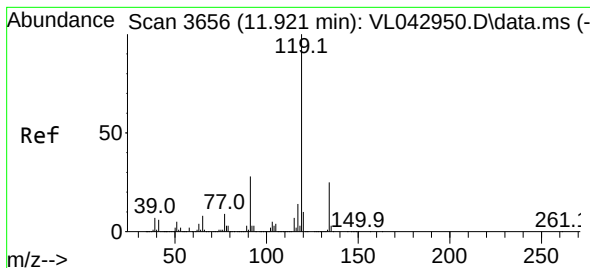
Ion Ratio Lower Upper

95 100

174 65.1 51.4 77.2

175 4.9 4.0 6.0





#69

p-Isopropyltoluene

Concen: 0.032 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. 0.003 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

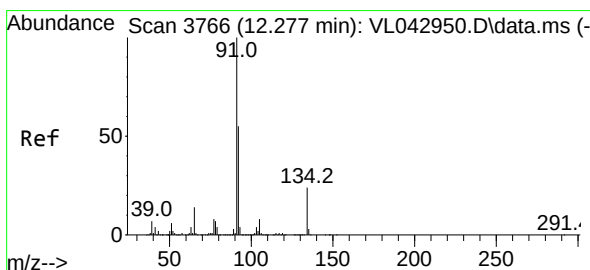
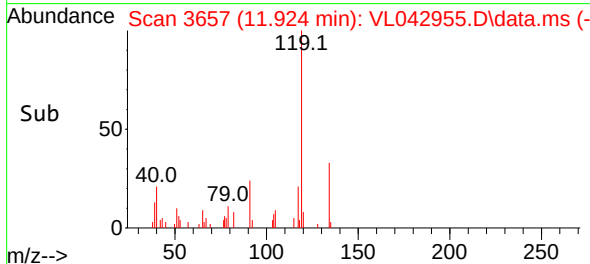
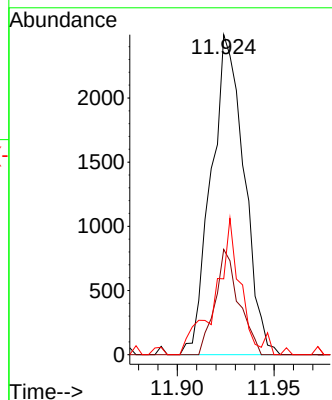
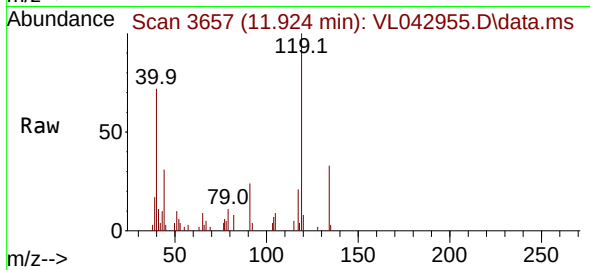
Tgt Ion:119 Resp: 2947

Ion Ratio Lower Upper

119 100

134 23.8 21.0 31.4

91 33.3 22.3 33.5



#70

n-Butylbenzene

Concen: 0.029 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. 0.006 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

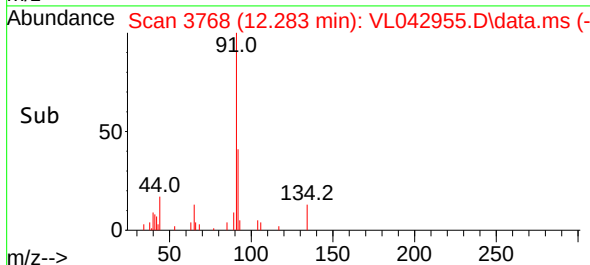
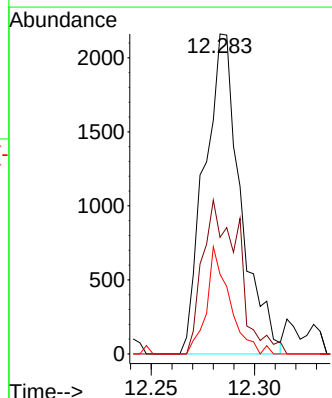
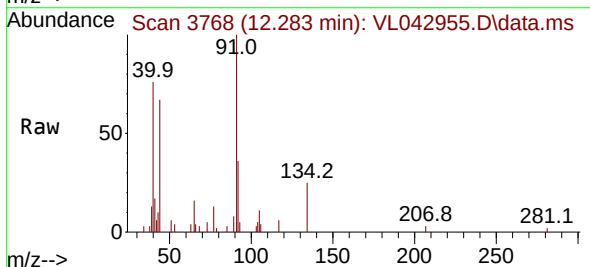
Tgt Ion: 91 Resp: 2629

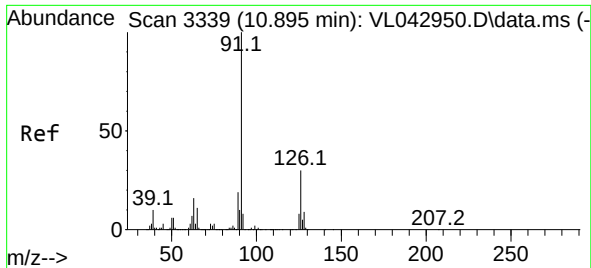
Ion Ratio Lower Upper

91 100

92 48.0 44.0 66.0

134 21.3 19.4 29.2

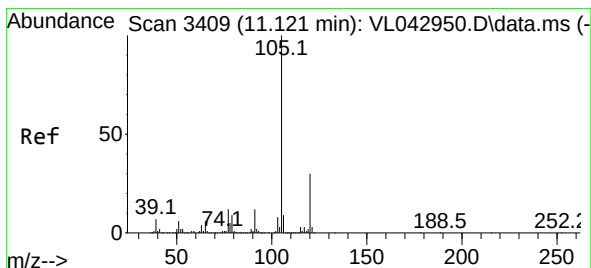
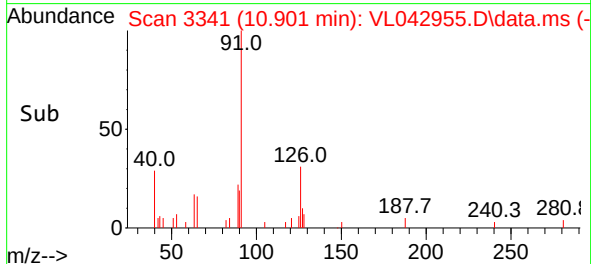
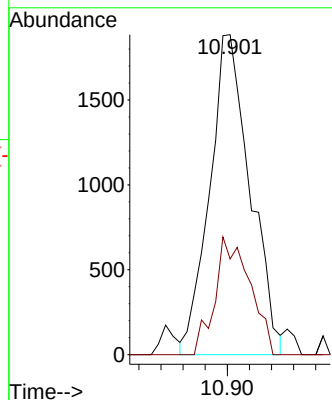
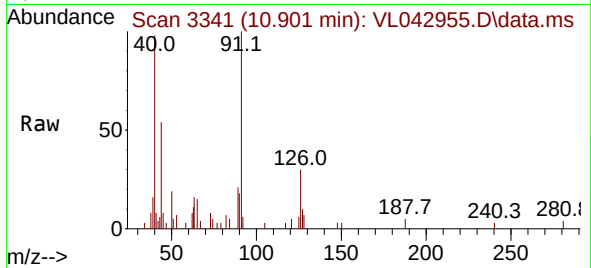




#71
2-Chlorotoluene
Concen: 0.036 ppbv
RT: 10.901 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

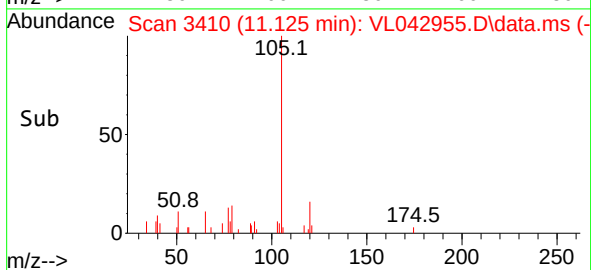
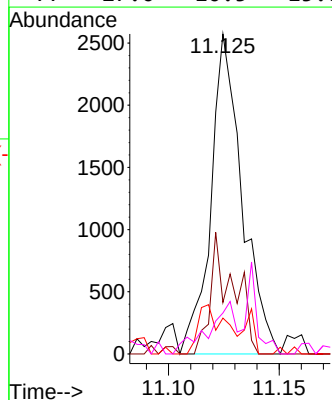
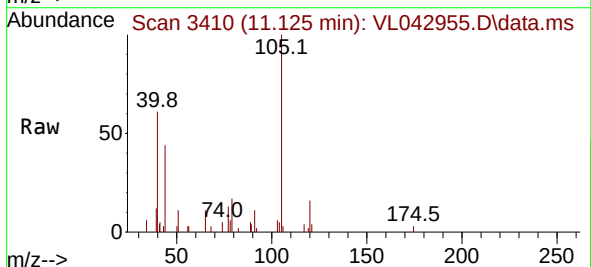
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

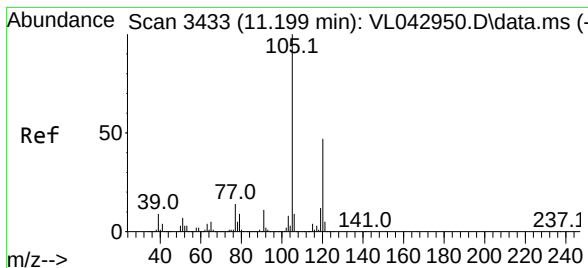
Tgt Ion: 91 Resp: 2400
Ion Ratio Lower Upper
91 100
126 31.8 12.3 49.3



#72
4-Ethyltoluene
Concen: 0.034 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion: 105 Resp: 2527
Ion Ratio Lower Upper
105 100
120 28.8 24.2 36.2
91 21.0 10.0 15.0#
77 27.0 10.5 15.7#

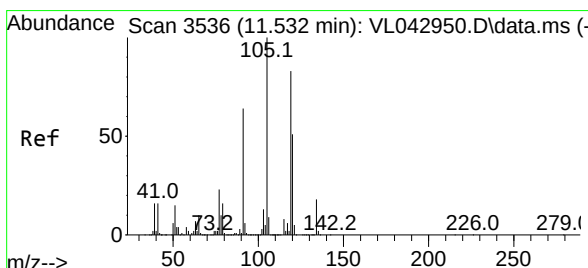
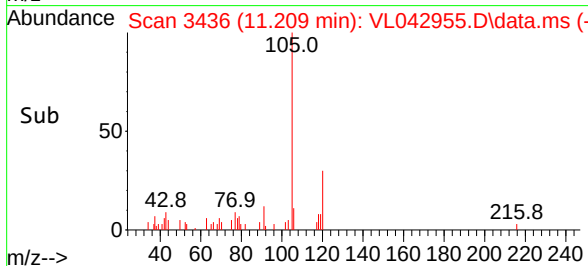
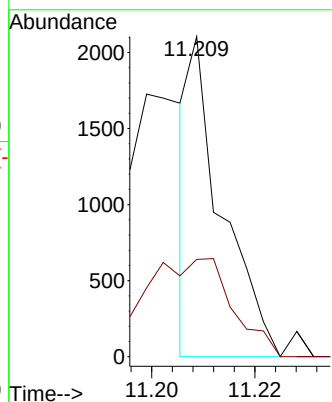
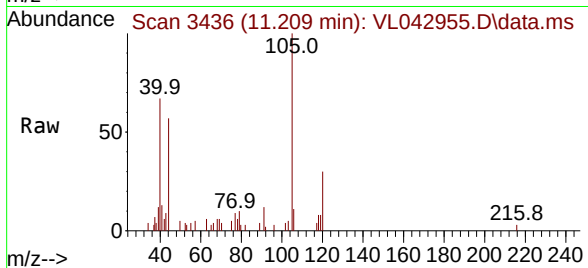




#73
 1,3,5-Trimethylbenzene
 Concen: 0.015 ppbv
 RT: 11.209 min Scan# 3433
 Delta R.T. 0.010 min
 Lab File: VL042955.D
 Acq: 22 Sep 2025 12:30

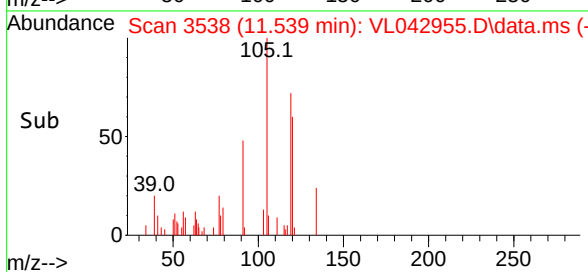
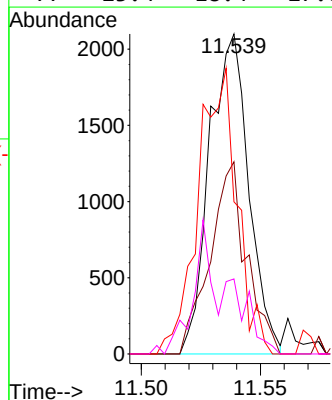
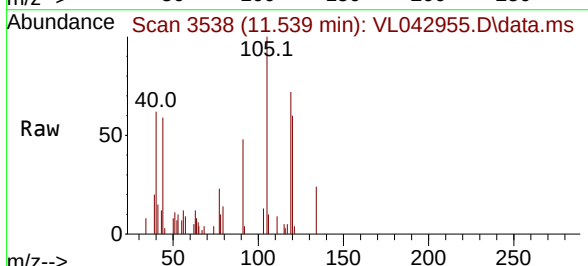
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

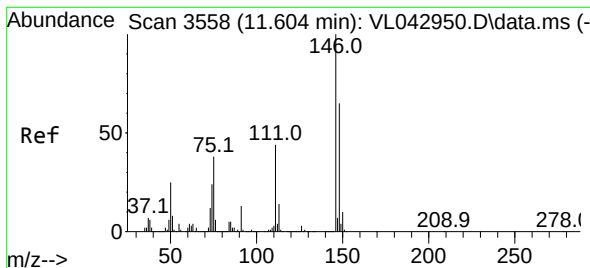
Tgt Ion:105 Resp: 922
 Ion Ratio Lower Upper
 105 100
 120 27.4 38.0 57.0#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.037 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. 0.006 min
 Lab File: VL042955.D
 Acq: 22 Sep 2025 12:30

Tgt Ion:105 Resp: 2411
 Ion Ratio Lower Upper
 105 100
 120 60.0 40.9 61.3
 91 47.6 51.2 76.8#
 77 23.4 18.4 27.6





#75

1,3-Dichlorobenzene

Concen: 0.029 ppbv

RT: 11.610 min Scan# 3558

Delta R.T. 0.006 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

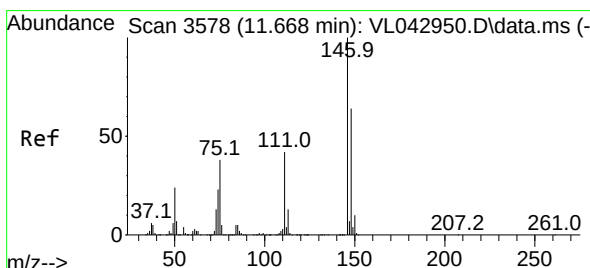
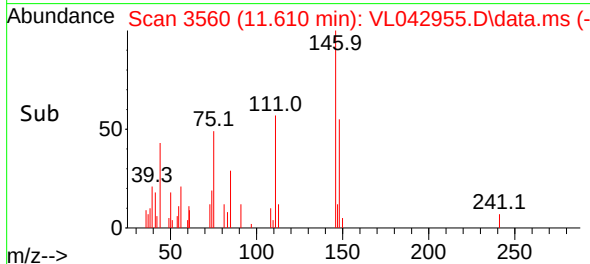
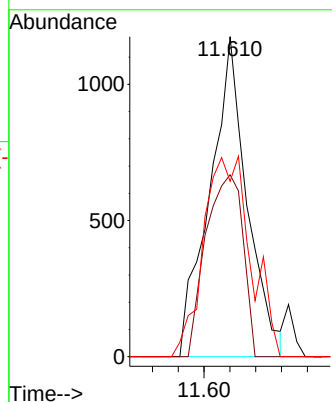
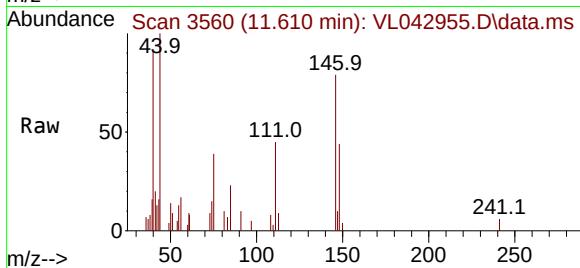
Tgt Ion:146 Resp: 1180

Ion Ratio Lower Upper

146 100

111 56.4 22.3 66.9

148 78.8 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 0.012 ppbv

RT: 11.685 min Scan# 3583

Delta R.T. 0.016 min

Lab File: VL042955.D

Acq: 22 Sep 2025 12:30

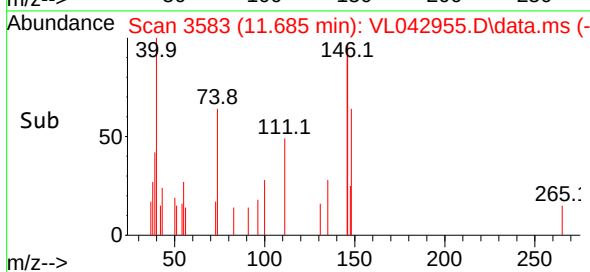
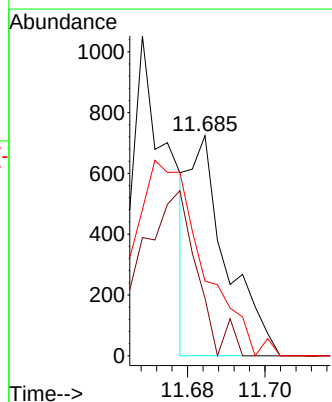
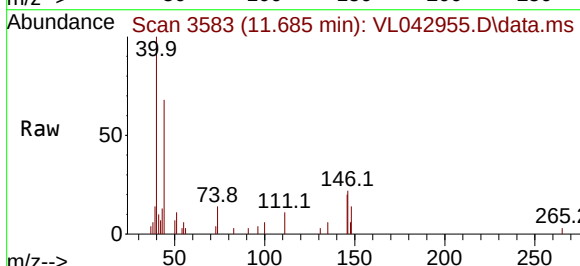
Tgt Ion:146 Resp: 477

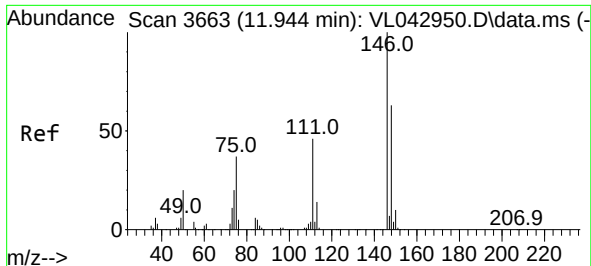
Ion Ratio Lower Upper

146 100

111 121.6 21.5 64.5#

148 0.0 31.9 95.5#

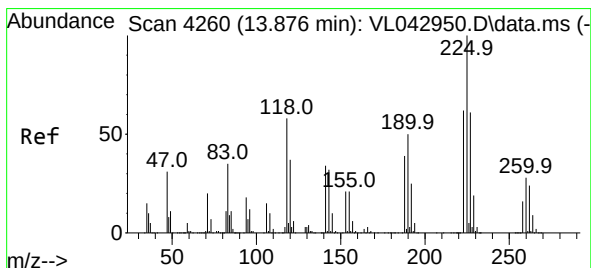
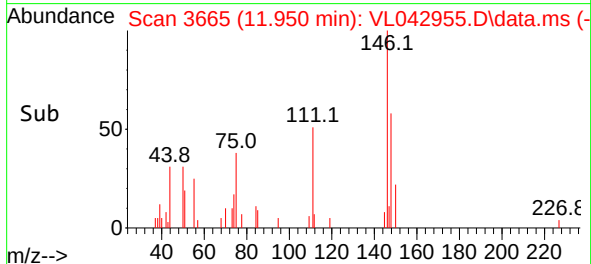
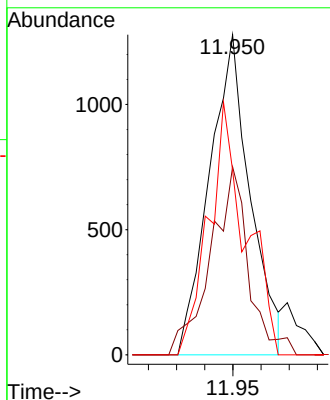
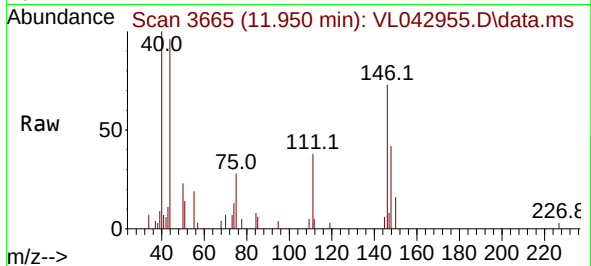




#77
1,2-Dichlorobenzene
Concen: 0.033 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.006 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

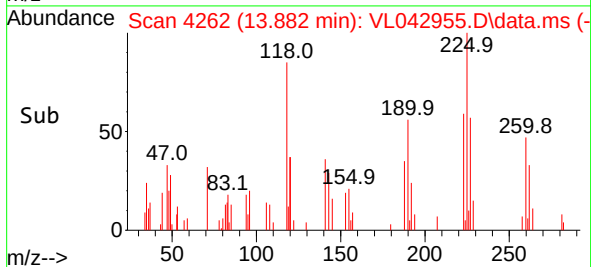
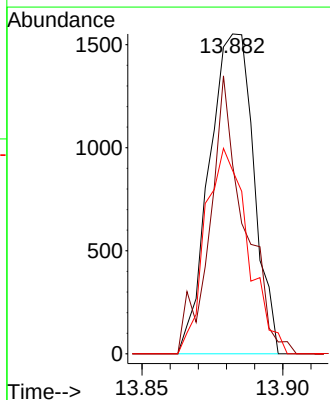
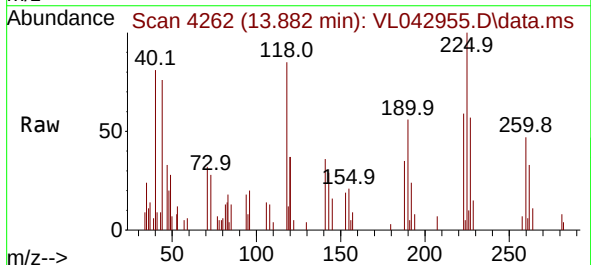
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

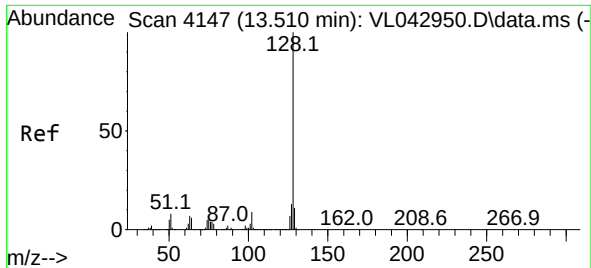
Tgt Ion:146	Resp:	1283
Ion Ratio	Lower	Upper
146	100	
111	54.6	23.1 69.3
148	71.7	32.0 96.0



#78
Hexachloro-1,3-Butadiene
Concen: 0.056 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.006 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion:225	Resp:	1707
Ion Ratio	Lower	Upper
225	100	
223	67.0	50.1 75.1
227	61.9	50.4 75.6

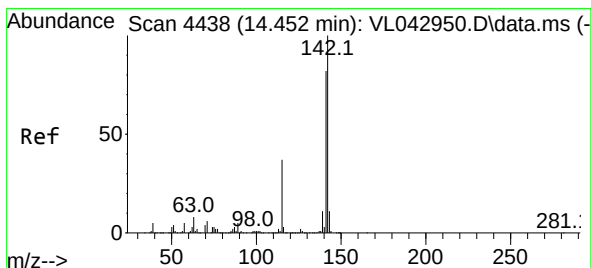
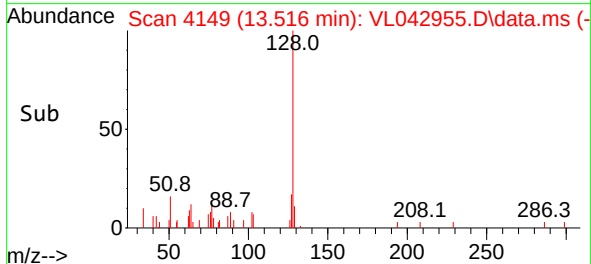
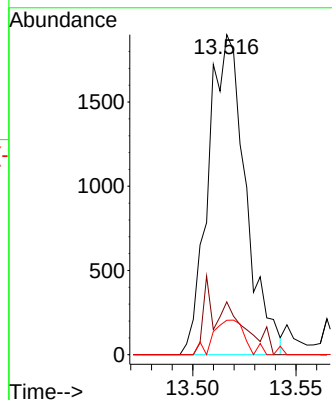
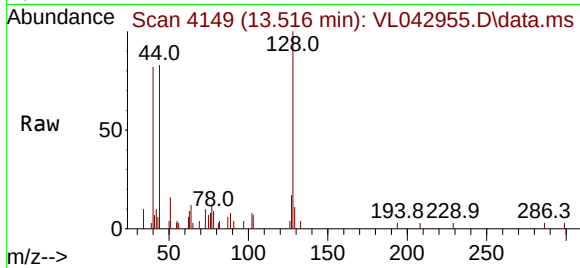




#79
Naphthalene
Concen: 0.041 ppbv
RT: 13.516 min Scan# 4147
Delta R.T. 0.006 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

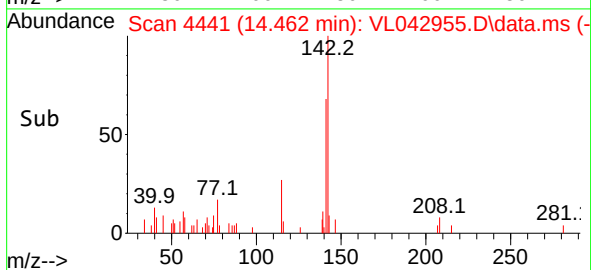
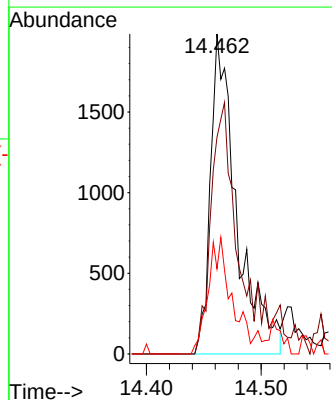
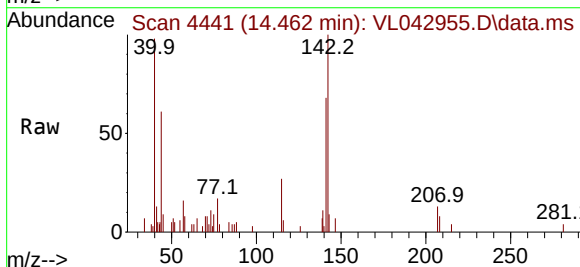
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

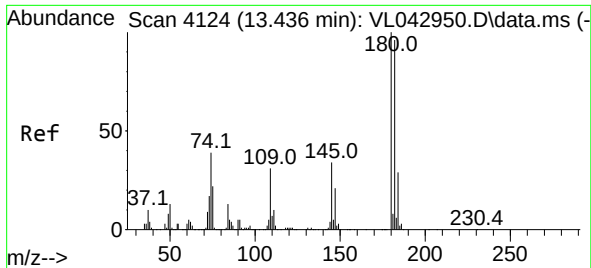
Tgt Ion:128 Resp: 2391
Ion Ratio Lower Upper
128 100
127 16.5 10.6 15.8#
129 10.7 9.0 13.6



#80
Naphthalene,2-methyl-
Concen: 0.175 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.010 min
Lab File: VL042955.D
Acq: 22 Sep 2025 12:30

Tgt Ion:142 Resp: 3144
Ion Ratio Lower Upper
142 100
141 93.4 65.1 97.7
115 40.9 28.9 43.3

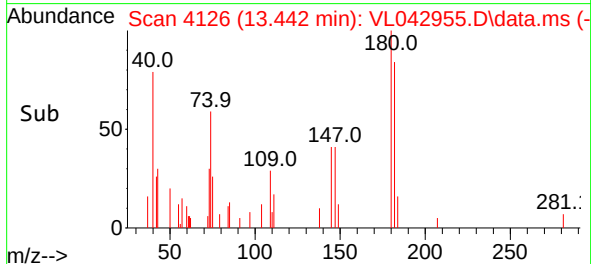
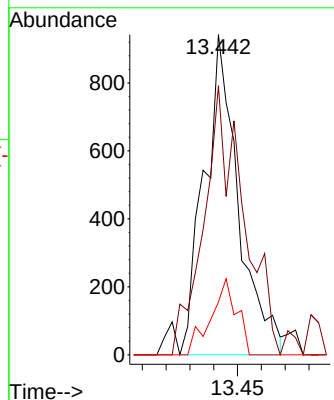
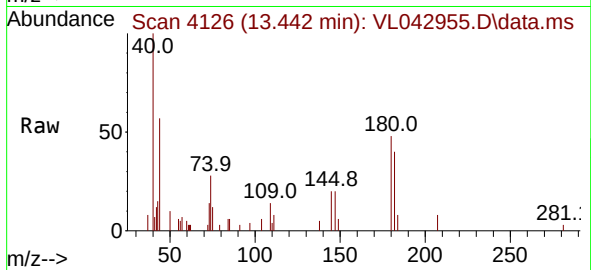




#81
 1,2,4-Trichlorobenzene
 Concen: 0.030 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042955.D
 Acq: 22 Sep 2025 12:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.9	75.7	113.5
184	18.0	23.9	35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042956.D
 Acq On : 22 Sep 2025 13:05
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Sep 23 02:14:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	162846	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	494779	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	458256	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	343752	10.049	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	300946	13.740	ppbv	97
3) Chlorodifluoromethane	1.476	51	364959	13.369	ppbv	100
4) Chloromethane	1.534	50	133240	13.439	ppbv	99
5) Vinyl Chloride	1.583	62	115257	12.860	ppbv	100
6) Bromomethane	1.670	94	40861	12.925	ppbv	94
7) Chloroethane	1.706	64	46081	13.241	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	255815	13.682	ppbv	98
9) Propene	1.486	41	154069	12.973	ppbv	94
10) Heptane	4.985	43	424500	13.327	ppbv	98
11) Trichlorofluoromethane	1.881	101	295479	13.991	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	237615	13.894	ppbv	99
13) Ethanol	1.722	45	11502	10.105	ppbv	99
14) Bromoethene	1.784	108	88375	13.668	ppbv	100
15) Acetone	1.835	43	244861	11.545	ppbv	97
16) 1,3-Butadiene	1.612	39	126670	12.661	ppbv	97
17) tert-Butyl alcohol	2.039	59	308347	13.255	ppbv	99
18) 1,1-Dichloroethene	2.036	96	109211	13.796	ppbv	99
19) Isopropyl Alcohol	1.887	45	162952	12.780	ppbv	100
20) Methylene Chloride	2.062	84	92708	14.996	ppbv	95
21) Allyl Chloride	2.098	41	204552	13.848	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	121815	13.542	ppbv	98
23) Vinyl Acetate	2.463	43	419251	13.837	ppbv	99
24) 1,1-Dichloroethane	2.411	63	243229	13.789	ppbv	99
25) Ethyl Acetate	2.835	43	724418	13.514	ppbv	99
26) Hexane	2.829	57	321710	13.166	ppbv	99
27) Carbon Disulfide	2.153	76	300931	13.731	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	193915	15.267	ppbv	94
29) Chloroform	2.852	83	440772	13.796	ppbv	98
30) Cyclohexane	3.858	84	281932	13.800	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	317456	13.869	ppbv	98
32) 1,1,1-Trichloroethane	3.369	97	456335	13.178	ppbv	99
34) 2-Butanone	2.557	43	469872	13.551	ppbv	99
35) Carbon Tetrachloride	3.764	117	457985	14.385	ppbv	97
36) Benzene	3.658	78	654205	14.080	ppbv	99
37) 1,2-Dichloroethane	3.221	62	350841	14.358	ppbv	100
38) Trichloroethene	4.548	130	310602	13.450	ppbv	97
39) 1,2-Dichloropropane	4.315	63	241323	14.218	ppbv	95
40) 1,4-Dioxane	4.580	88	104884	13.306	ppbv #	98
41) Tetrahydrofuran	3.052	42	276157	13.855	ppbv	99
42) Bromodichloromethane	4.489	83	495091	14.544	ppbv	98
43) Methyl Methacrylate	4.881	69	263659	13.979	ppbv	99
44) 2,2,4-Trimethylpentane	4.641	57	1107180	13.791	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	298019	14.694	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042956.D
 Acq On : 22 Sep 2025 13:05
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

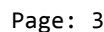
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

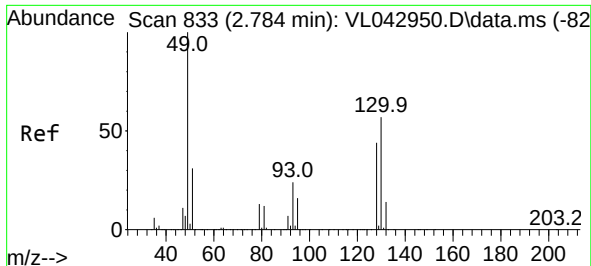
Quant Time: Sep 23 02:14:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	371770	14.389	ppbv	99
47) 1,1,2-Trichloroethane	6.583	97	249453	13.909	ppbv	96
48) Dibromochloromethane	7.389	129	421755	14.709	ppbv	99
49) Bromoform	9.487	173	367120	14.719	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	666049	14.293	ppbv	100
51) 2-Hexanone	7.435	43	541611	14.620	ppbv	100
52) Tetrachloroethene	8.228	164	233980	13.015	ppbv	99
53) Toluene	6.936	91	765216	13.915	ppbv	98
54) 1,2-Dibromoethane	7.652	107	359750	14.261	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.927	131	306952	13.994	ppbv	99
57) Chlorobenzene	8.924	112	565065	13.507	ppbv	98
58) Ethyl Benzene	9.357	91	1052303	13.985	ppbv	99
59) m/p-Xylene	9.535	91	880462	14.831	ppbv #	100
60) o-Xylene	9.966	91	808098	13.629	ppbv	100
61) Styrene	9.872	104	401899	14.330	ppbv	99
62) Isopropylbenzene	10.542	105	1198767	13.564	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	403038	12.932	ppbv	100
64) n-propylbenzene	10.992	120	318541	13.793	ppbv	97
65) tert-Butylbenzene	11.532	119	1033382	13.146	ppbv	100
66) Benzyl Chloride	11.616	91	113549	13.767	ppbv	99
67) sec-Butylbenzene	11.769	105	1454158	13.276	ppbv	99
69) p-Isopropyltoluene	11.927	119	1228773	13.280	ppbv	100
70) n-Butylbenzene	12.283	91	1239042	13.716	ppbv	99
71) 2-Chlorotoluene	10.904	91	916456	13.733	ppbv	100
72) 4-Ethyltoluene	11.128	105	1014567	13.662	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	845958	14.046	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	889339	13.372	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	568597	13.785	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	570104	13.916	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	536286	13.665	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	377435	12.296	ppbv	99
79) Naphthalene	13.513	128	920123	15.645	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	277792	15.290	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	473767	15.066	ppbv	99

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

Quant Time: Sep 23 02:14:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

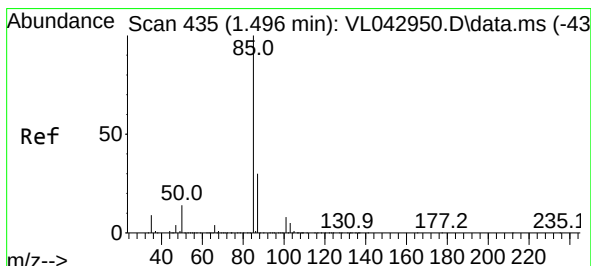
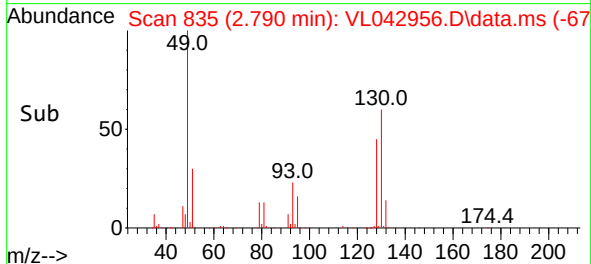
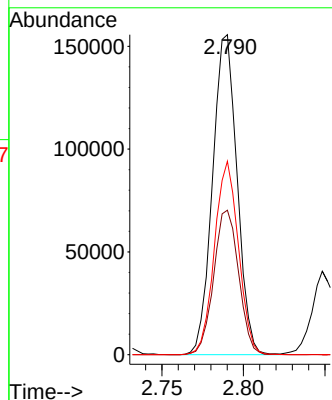
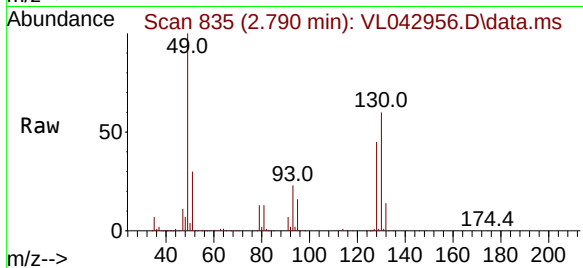




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

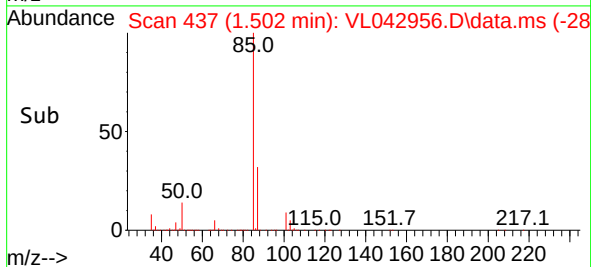
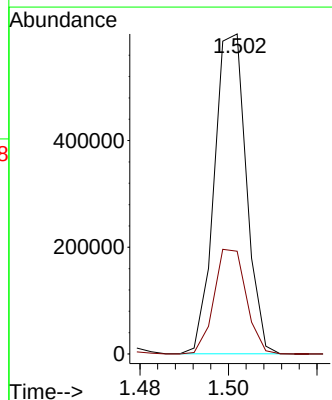
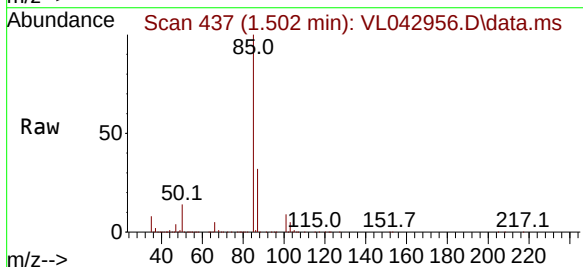
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

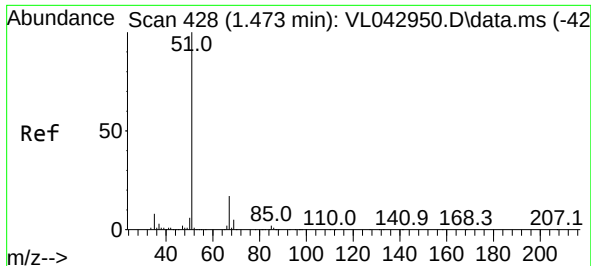
Tgt Ion: 49 Resp: 162846
Ion Ratio Lower Upper
49 100
128 45.9 22.9 68.8
130 59.1 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 13.740 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 85 Resp: 300946
Ion Ratio Lower Upper
85 100
87 32.1 24.3 36.5

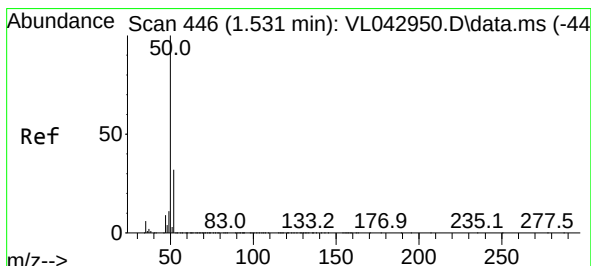
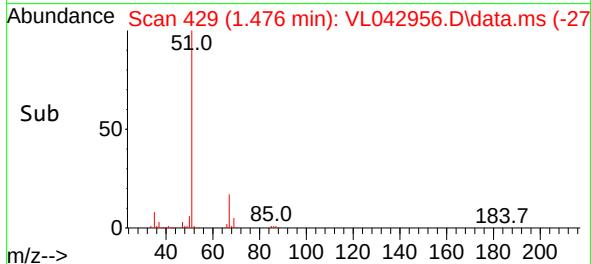
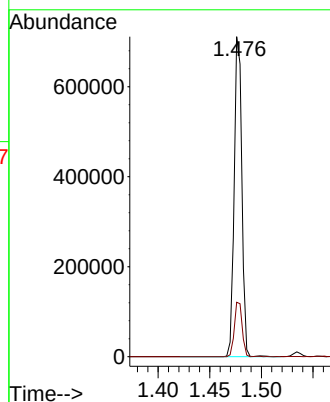
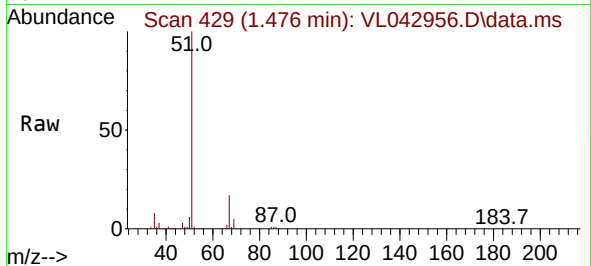




#3
Chlorodifluoromethane
Concen: 13.369 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

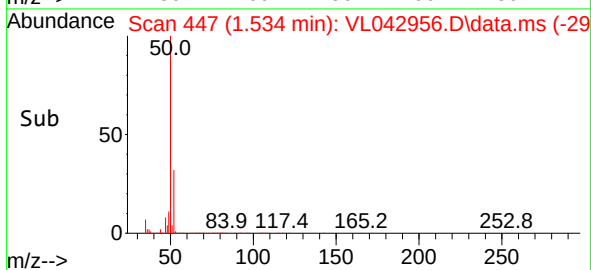
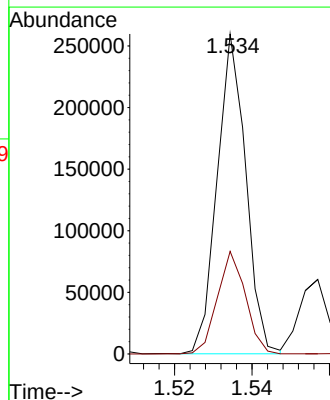
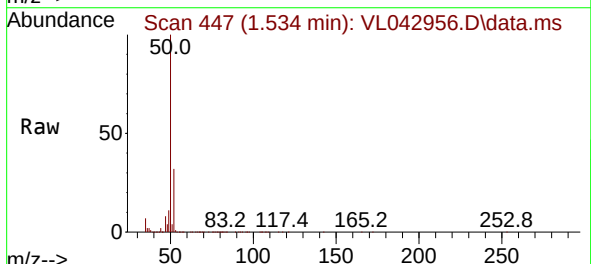
Instrument :
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ClientSampleId :
VSTDIC015

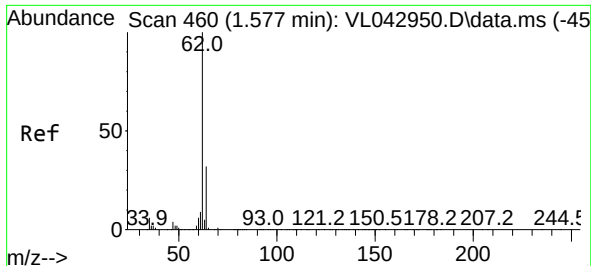
Tgt Ion: 51 Resp: 364959
Ion Ratio Lower Upper
51 100
67 17.5 13.8 20.8



#4
Chloromethane
Concen: 13.439 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 50 Resp: 133240
Ion Ratio Lower Upper
50 100
52 32.0 25.9 38.9

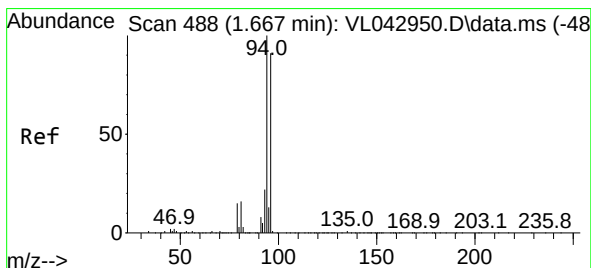
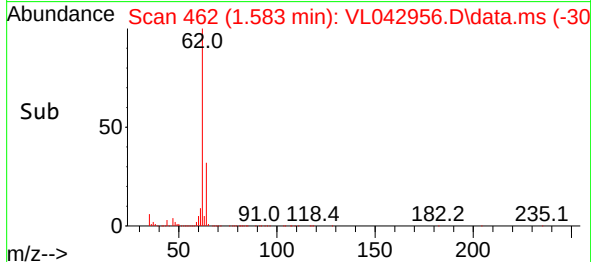
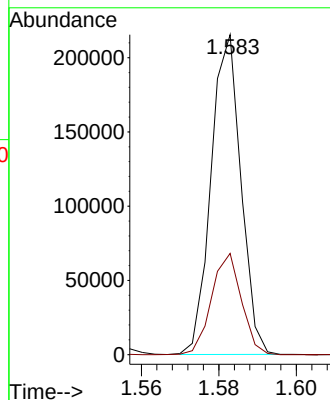
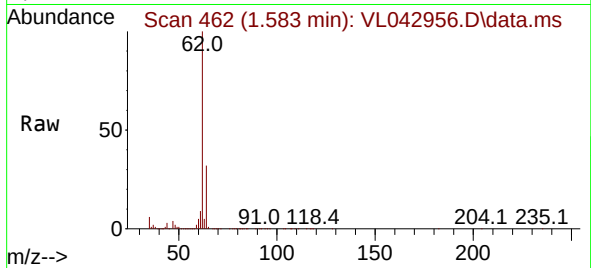




#5
 Vinyl Chloride
 Concen: 12.860 ppbv
 RT: 1.583 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

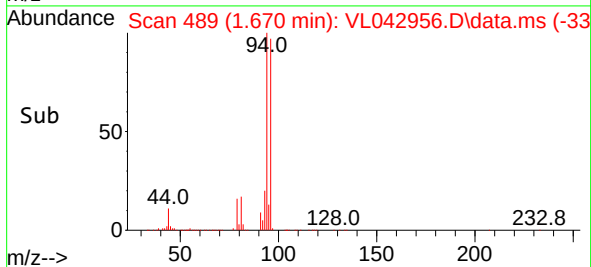
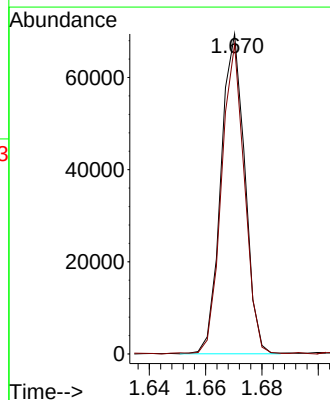
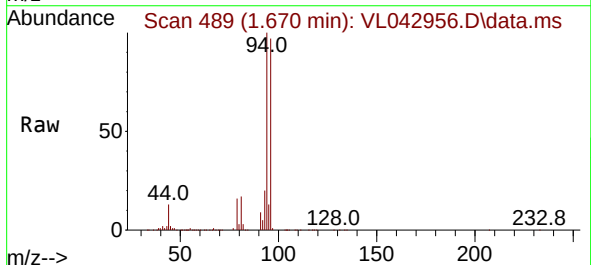
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

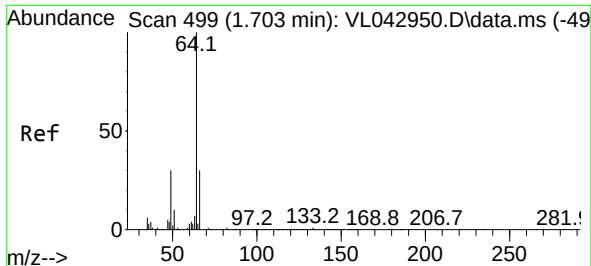
Tgt Ion: 62 Resp: 115257
 Ion Ratio Lower Upper
 62 100
 64 31.7 25.4 38.2



#6
 Bromomethane
 Concen: 12.925 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

Tgt Ion: 94 Resp: 40861
 Ion Ratio Lower Upper
 94 100
 96 96.7 72.6 108.8

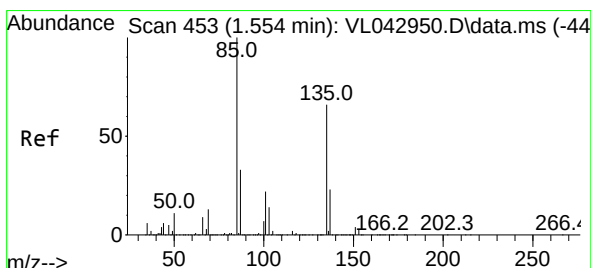
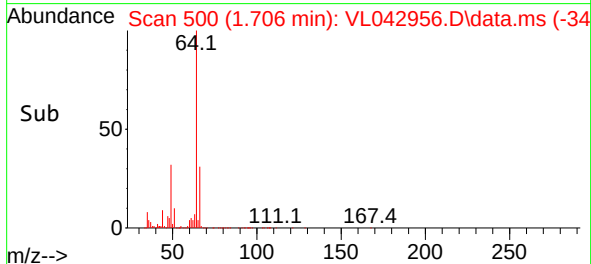
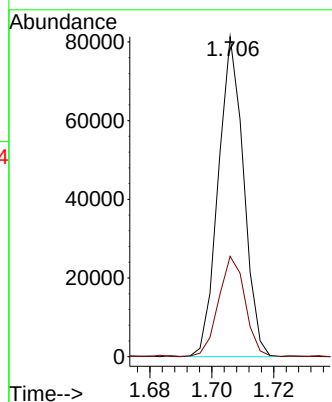
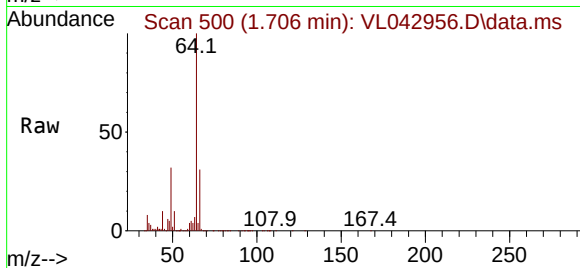




#7
Chloroethane
Concen: 13.241 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

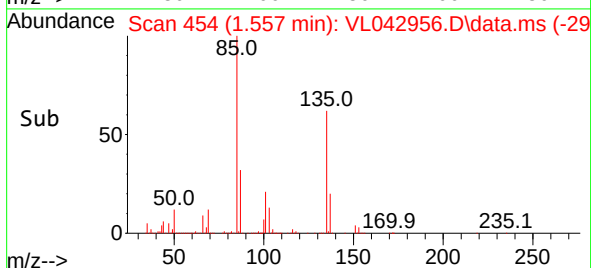
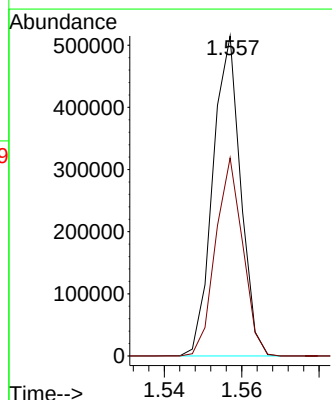
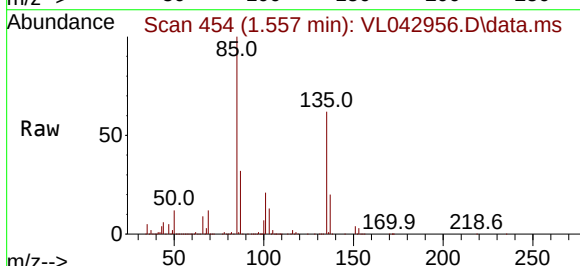
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

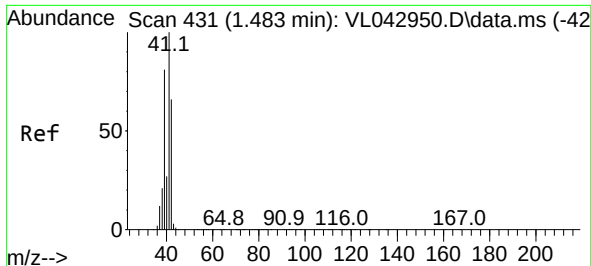
Tgt Ion: 64 Resp: 46081
Ion Ratio Lower Upper
64 100
66 31.3 24.6 36.8



#8
Dichlorotetrafluoroethane
Concen: 13.682 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 85 Resp: 255815
Ion Ratio Lower Upper
85 100
135 60.8 49.7 74.5





#9

Propene

Concen: 12.973 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

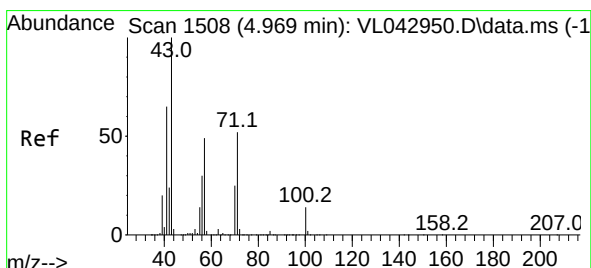
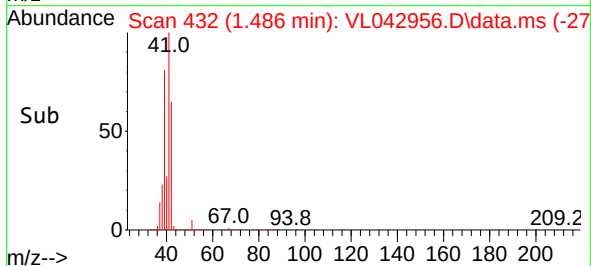
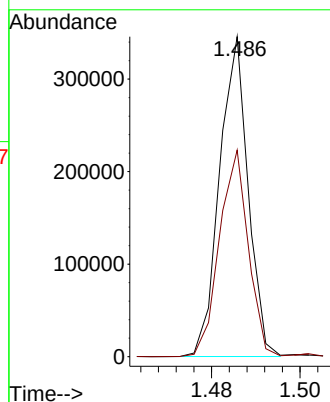
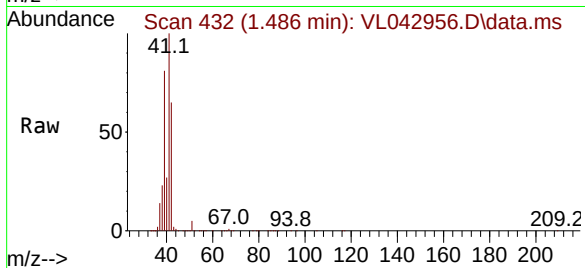
VSTDIC015

Tgt Ion: 41 Resp: 154069

Ion Ratio Lower Upper

41 100

42 67.1 57.4 86.2



#10

Heptane

Concen: 13.327 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. 0.016 min

Lab File: VL042956.D

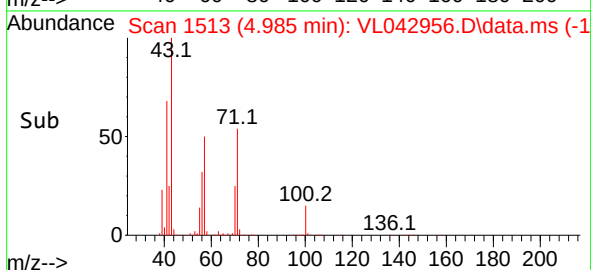
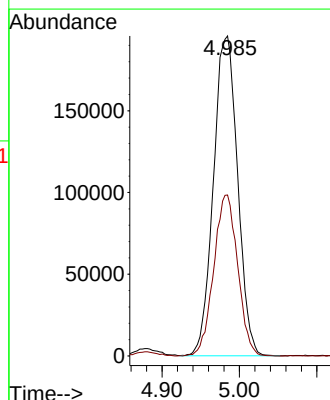
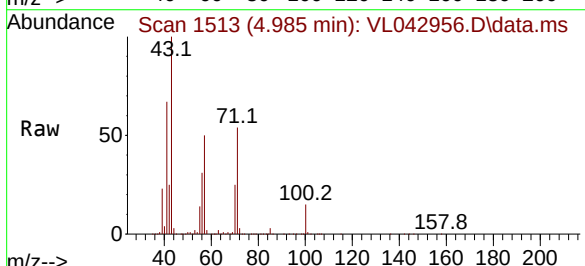
Acq: 22 Sep 2025 13:05

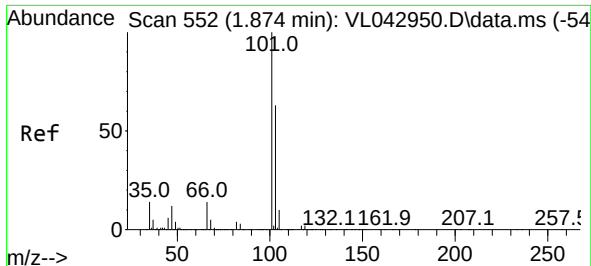
Tgt Ion: 43 Resp: 424500

Ion Ratio Lower Upper

43 100

57 49.8 38.6 57.8

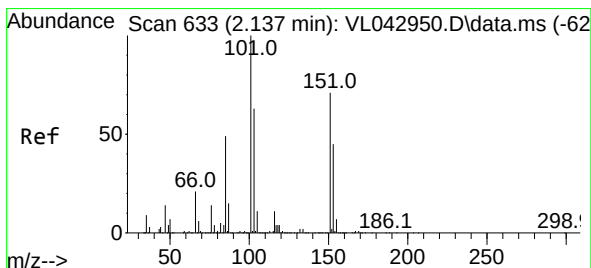
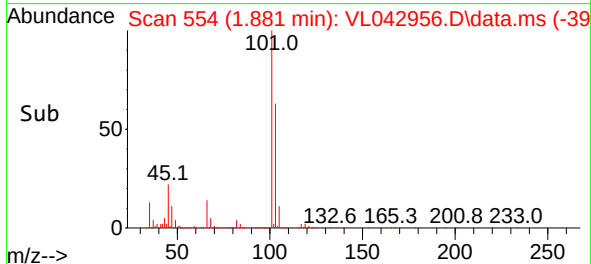
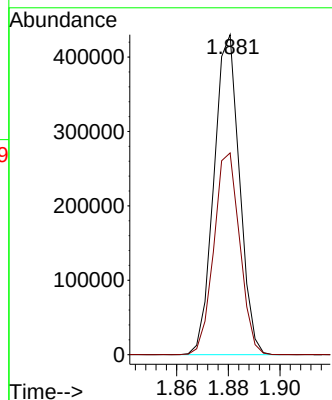
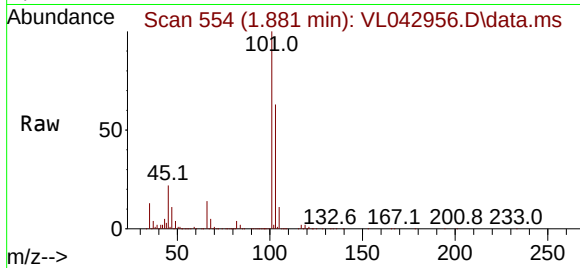




#11
 Trichlorofluoromethane
 Concen: 13.991 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

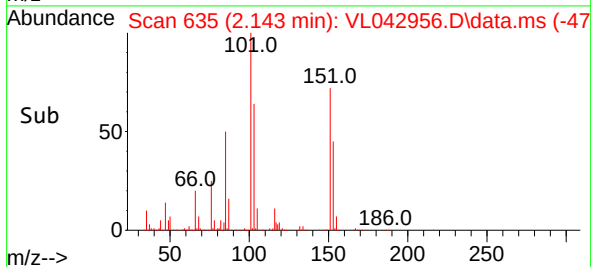
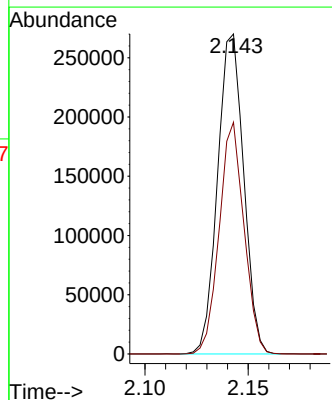
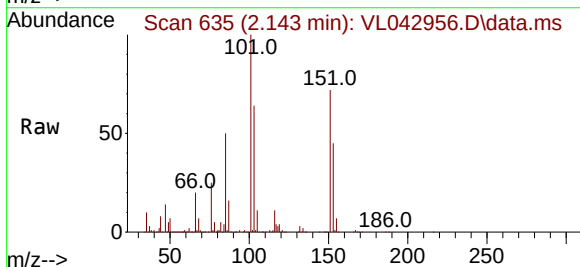
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

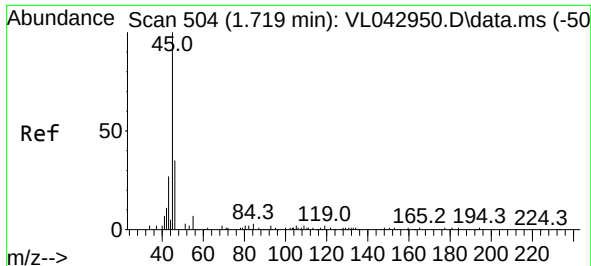
Tgt Ion:101 Resp: 295479
 Ion Ratio Lower Upper
 101 100
 103 63.0 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.894 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

Tgt Ion:101 Resp: 237615
 Ion Ratio Lower Upper
 101 100
 151 68.7 55.7 83.5

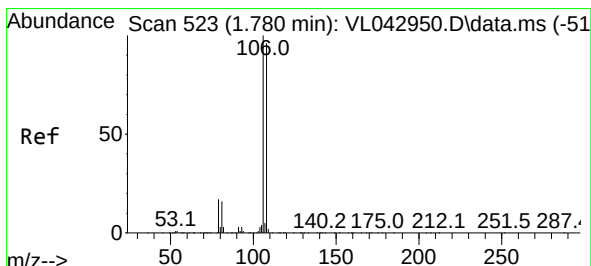
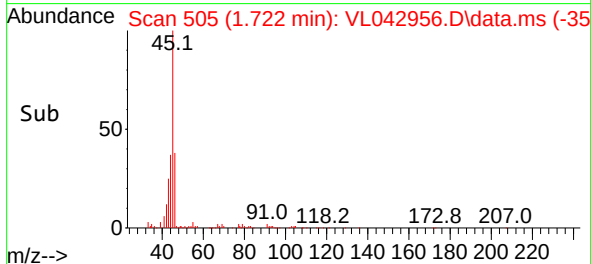
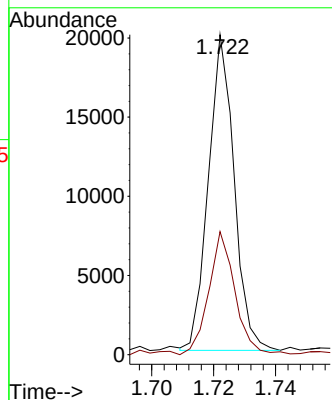
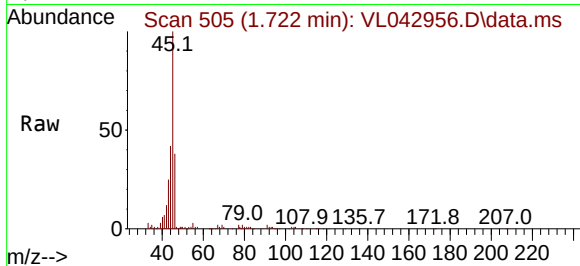




#13
Ethanol
Concen: 10.105 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

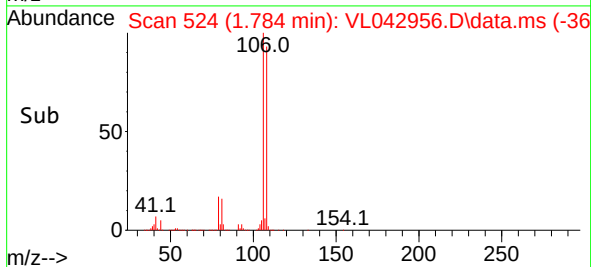
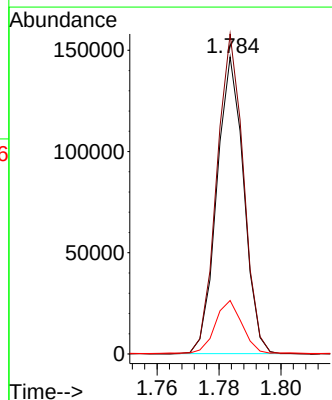
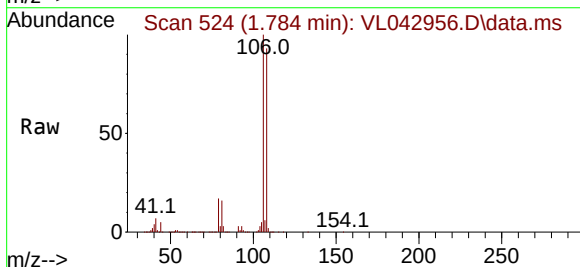
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

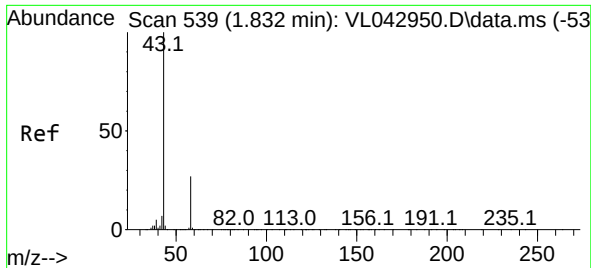
Tgt Ion: 45 Resp: 11502
Ion Ratio Lower Upper
45 100
46 39.5 16.2 64.6



#14
Bromoethene
Concen: 13.668 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 108 Resp: 88375
Ion Ratio Lower Upper
108 100
106 107.4 86.0 129.0
79 18.1 14.2 21.2





#15

Acetone

Concen: 11.545 ppbv

RT: 1.835 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

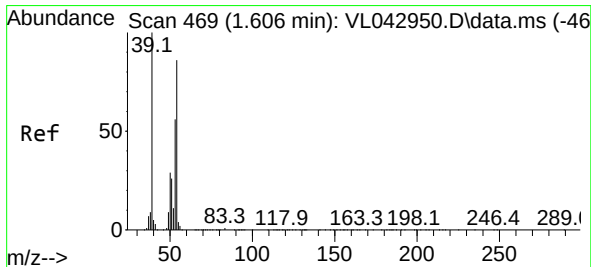
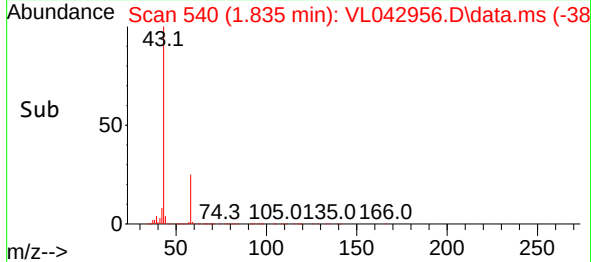
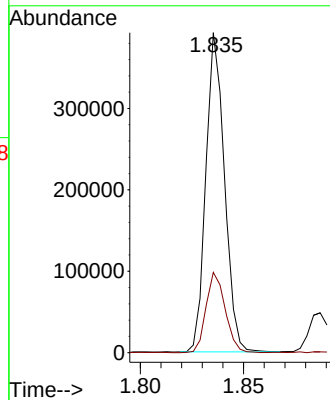
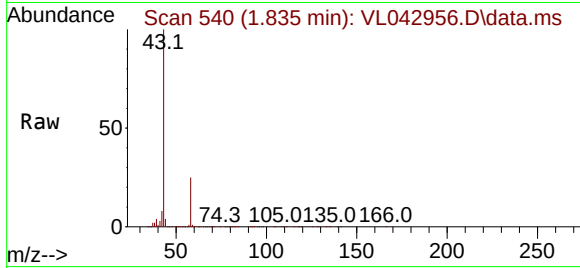
VSTDIC015

Tgt Ion: 43 Resp: 244861

Ion Ratio Lower Upper

43 100

58 26.2 22.3 33.5



#16

1,3-Butadiene

Concen: 12.661 ppbv

RT: 1.612 min Scan# 471

Delta R.T. 0.006 min

Lab File: VL042956.D

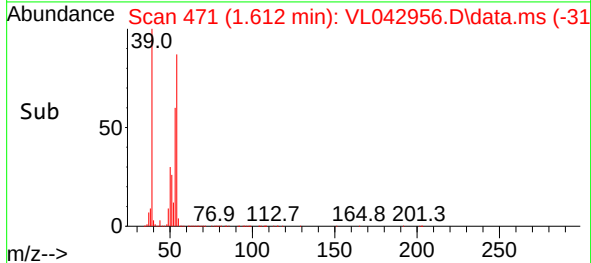
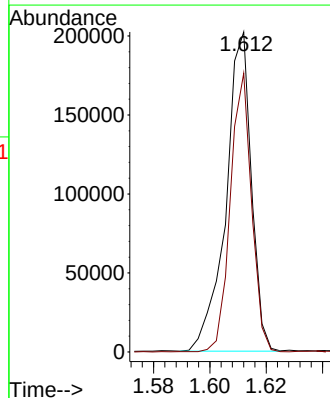
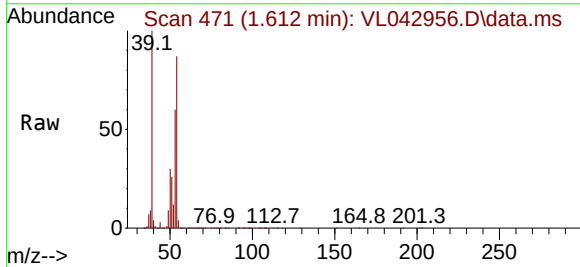
Acq: 22 Sep 2025 13:05

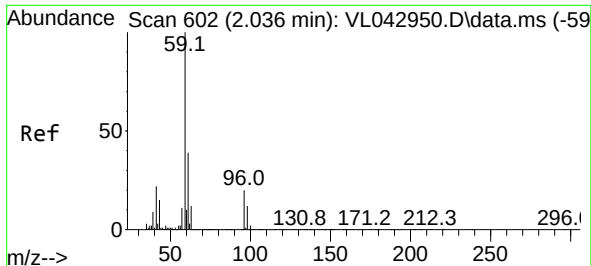
Tgt Ion: 39 Resp: 126670

Ion Ratio Lower Upper

39 100

54 73.2 60.8 91.2

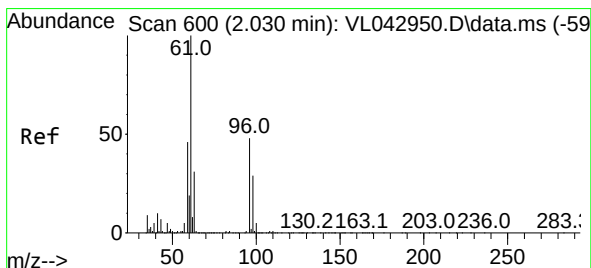
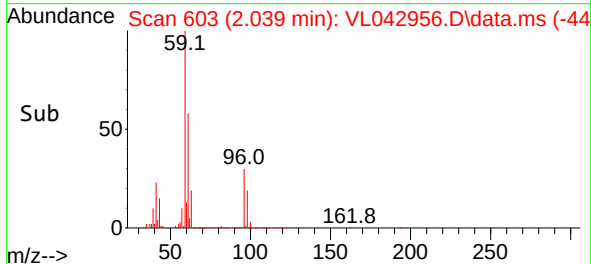
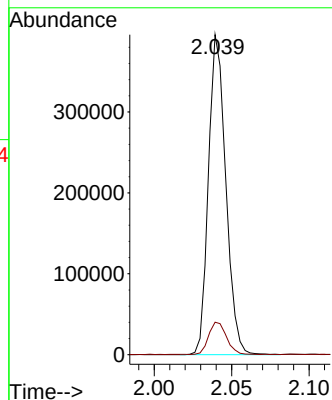
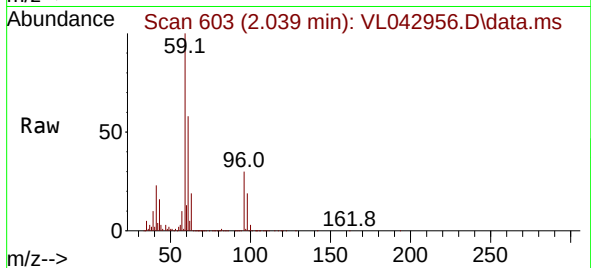




#17
tert-Butyl alcohol
Concen: 13.255 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

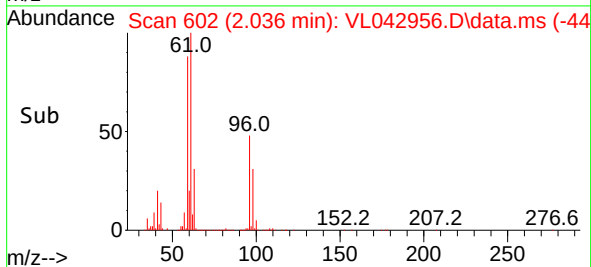
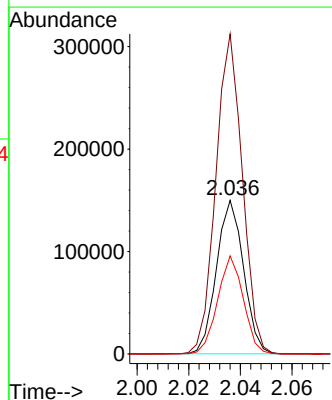
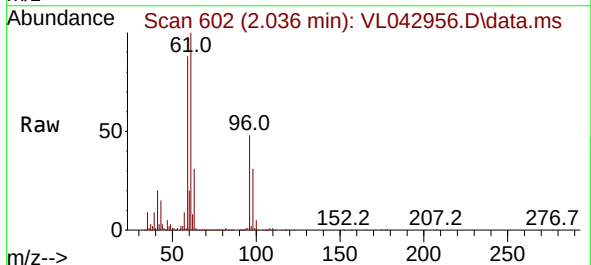
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

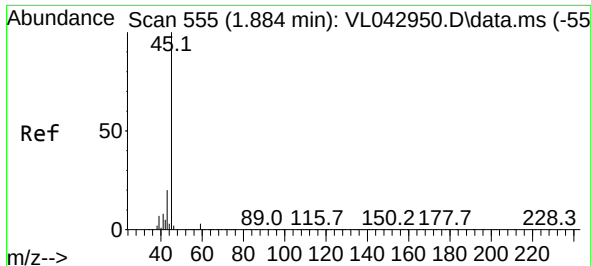
Tgt Ion: 59 Resp: 308347
Ion Ratio Lower Upper
59 100
57 10.5 8.6 12.8



#18
1,1-Dichloroethene
Concen: 13.796 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 96 Resp: 109211
Ion Ratio Lower Upper
96 100
61 208.5 166.2 249.4
98 63.9 48.6 73.0

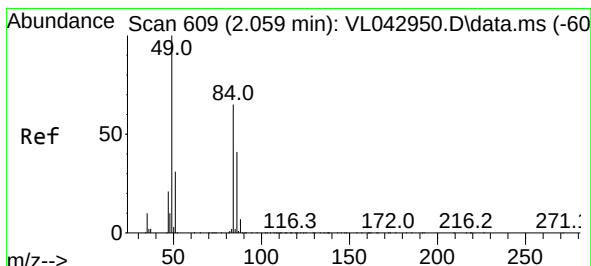
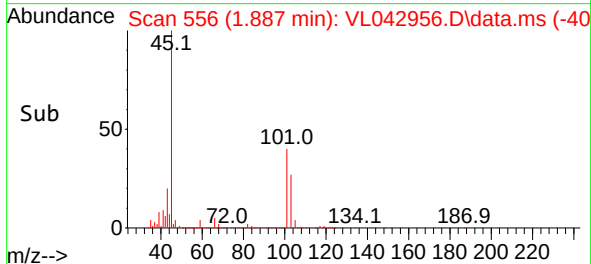
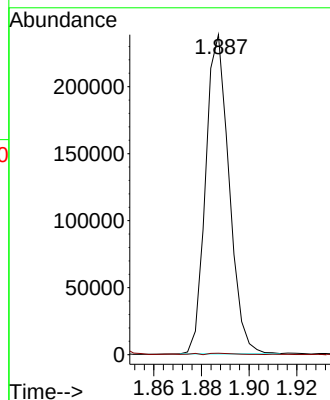
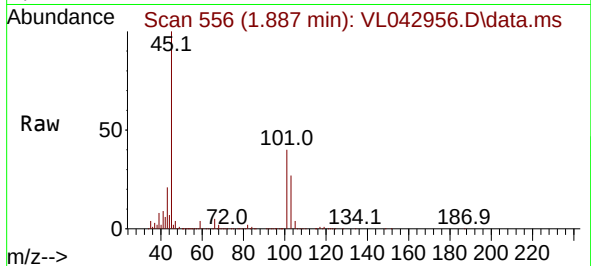




#19
Isopropyl Alcohol
Concen: 12.780 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

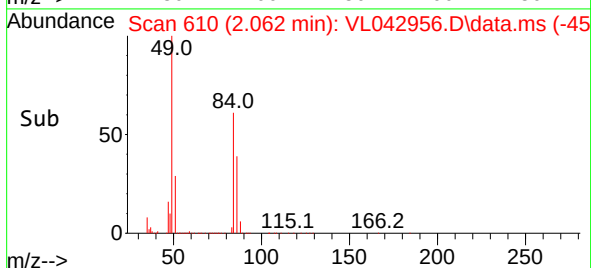
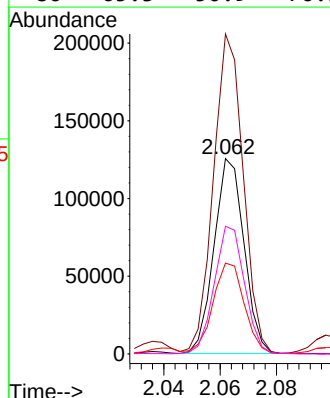
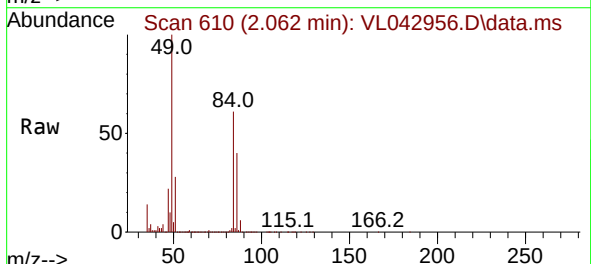
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

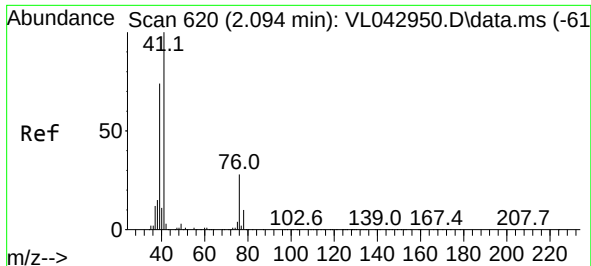
Tgt Ion: 45 Resp: 162952
Ion Ratio Lower Upper
45 100
58 39.0 31.0 46.6



#20
Methylene Chloride
Concen: 14.996 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 84 Resp: 92708
Ion Ratio Lower Upper
84 100
49 163.6 124.1 186.1
51 46.4 39.8 59.8
86 65.3 50.9 76.3

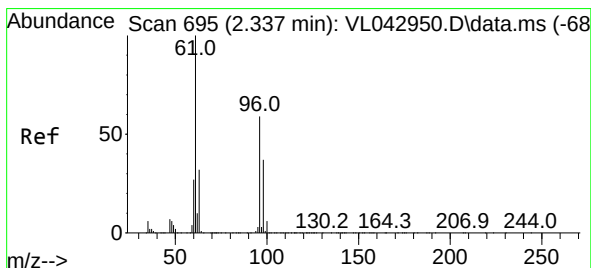
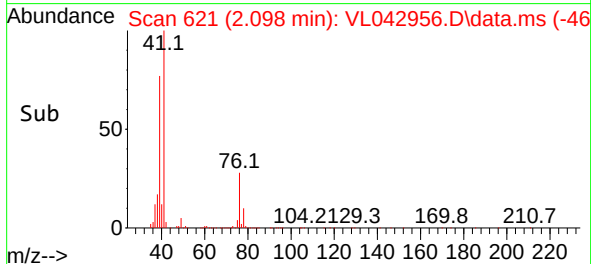
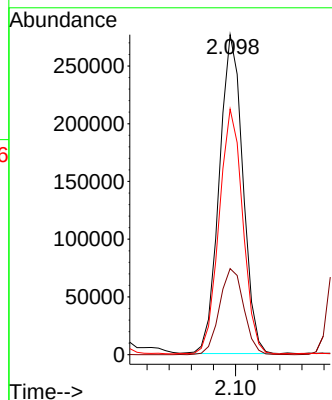
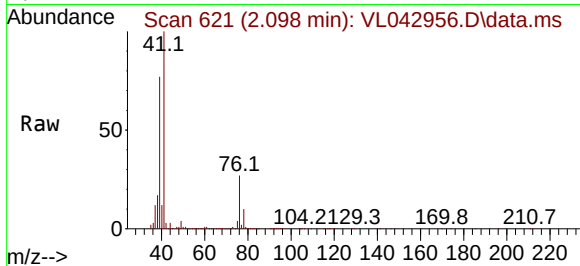




#21
 Allyl Chloride
 Concen: 13.848 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

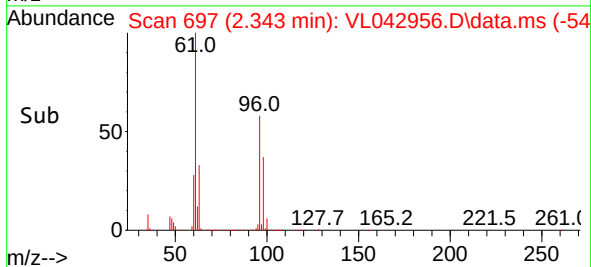
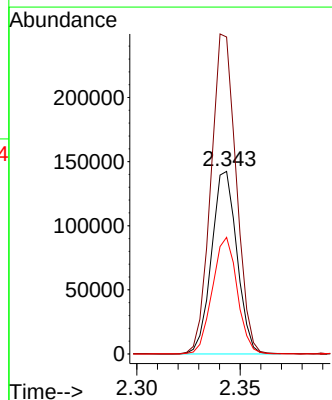
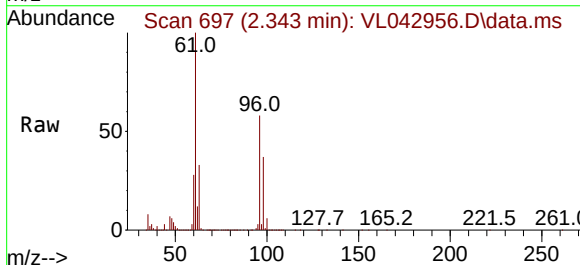
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

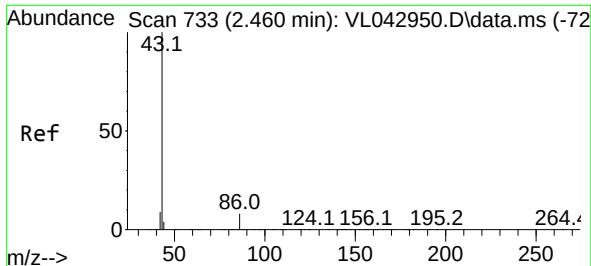
Tgt Ion: 41 Resp: 204552
 Ion Ratio Lower Upper
 41 100
 76 27.8 22.3 33.5
 39 76.9 61.3 91.9



#22
 trans-1,2-Dichloroethene
 Concen: 13.542 ppbv
 RT: 2.343 min Scan# 697
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

Tgt Ion: 96 Resp: 121815
 Ion Ratio Lower Upper
 96 100
 61 173.4 136.5 204.7
 98 63.8 50.6 76.0



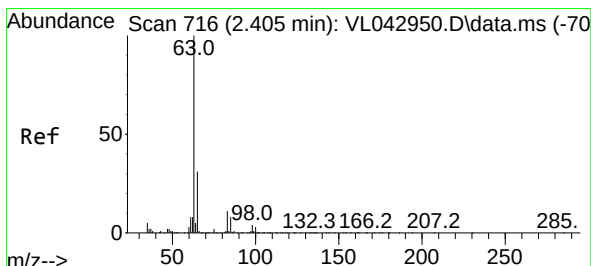
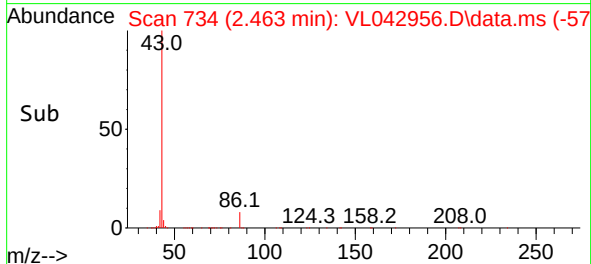
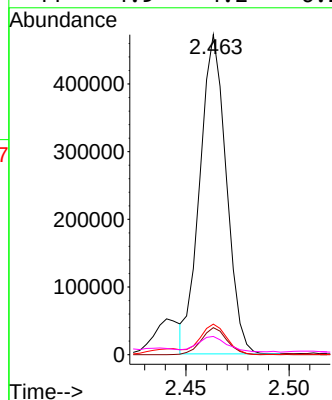
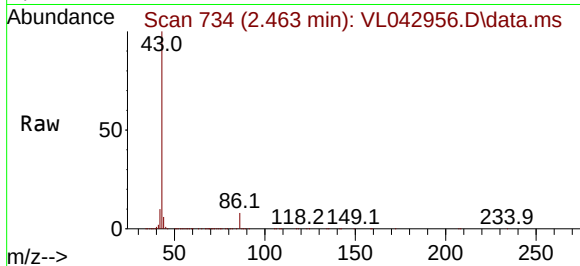


#23
 Vinyl Acetate
 Concen: 13.837 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 43 Resp: 419251

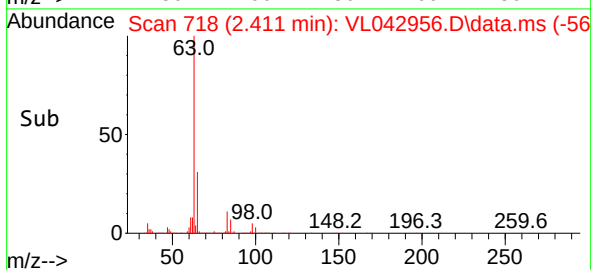
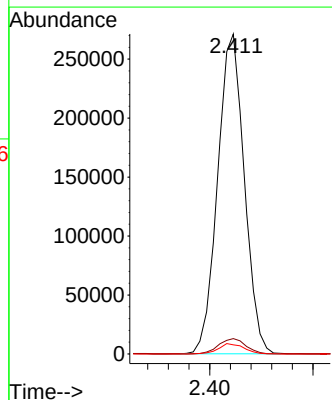
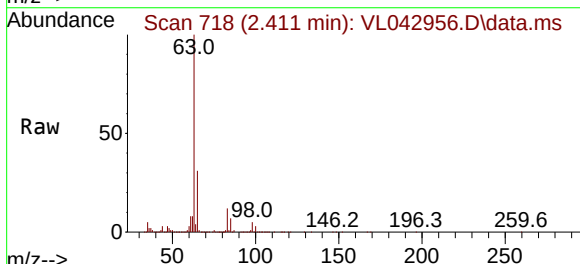
Ion	Ratio	Lower	Upper
43	100		
86	8.5	6.2	9.2
42	9.5	7.4	11.0
44	4.9	4.2	6.2

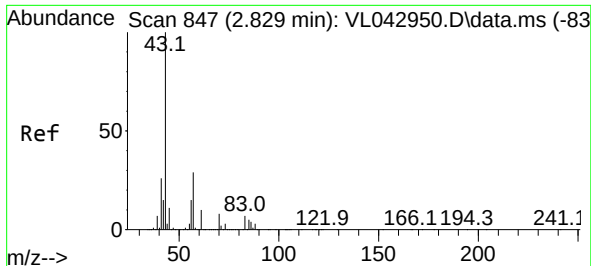


#24
 1,1-Dichloroethane
 Concen: 13.789 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

Tgt Ion: 63 Resp: 243229

Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.2	6.6
100	2.9	1.4	4.0

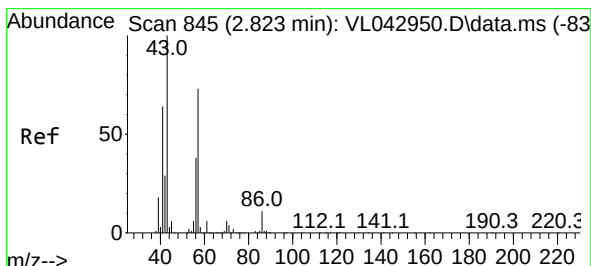
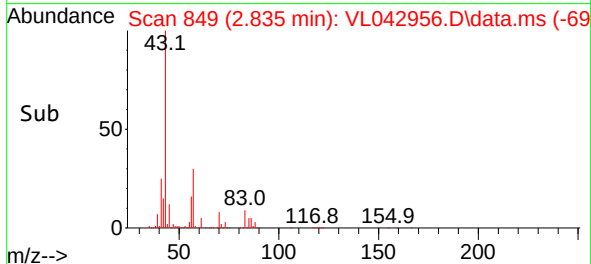
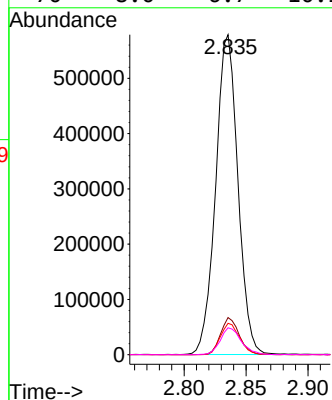
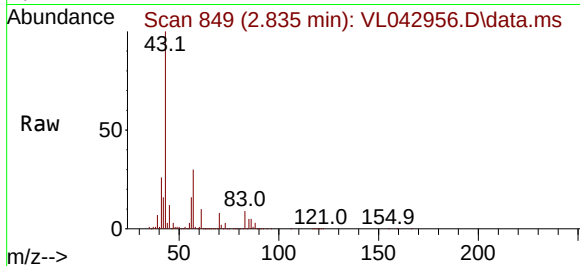




#25
Ethyl Acetate
Concen: 13.514 ppbv
RT: 2.835 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

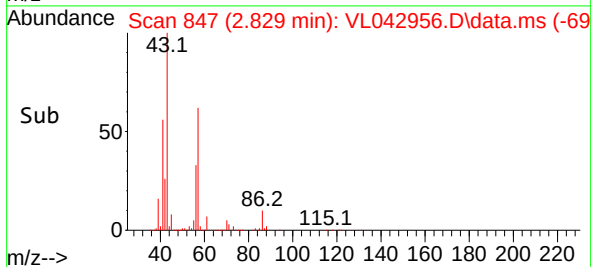
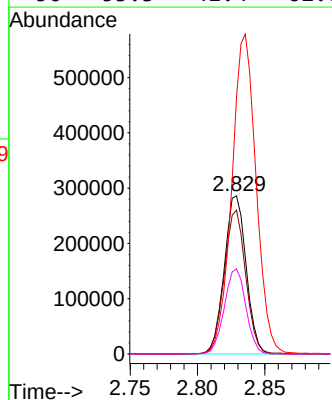
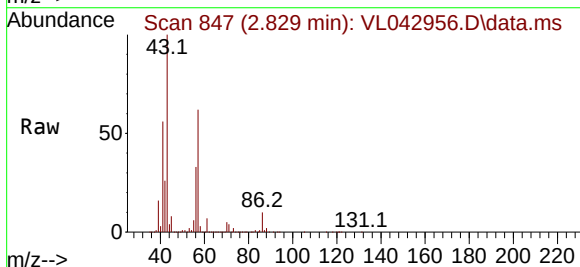
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

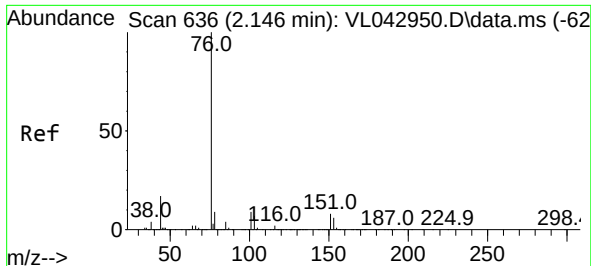
Tgt Ion: 43	Resp: 724418
Ion Ratio	Lower Upper
43 100	
45 9.7	7.7 11.5
61 8.6	7.1 10.7
70 8.0	6.7 10.1



#26
Hexane
Concen: 13.166 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 57	Resp: 321710
Ion Ratio	Lower Upper
57 100	
41 90.2	71.7 107.5
43 225.8	180.8 271.2
56 53.3	41.4 62.0

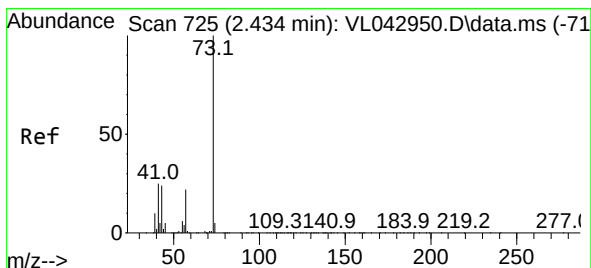
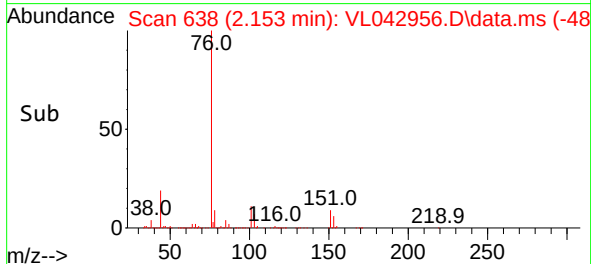
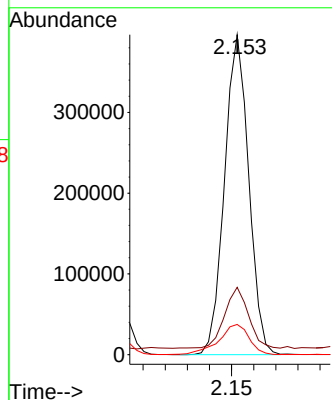
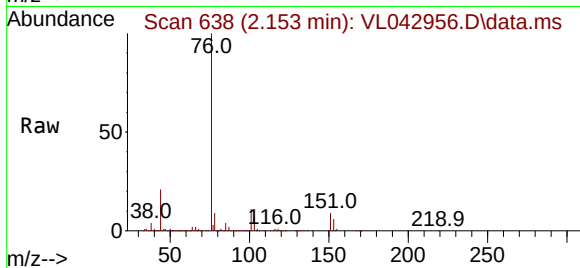




#27
Carbon Disulfide
Concen: 13.731 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

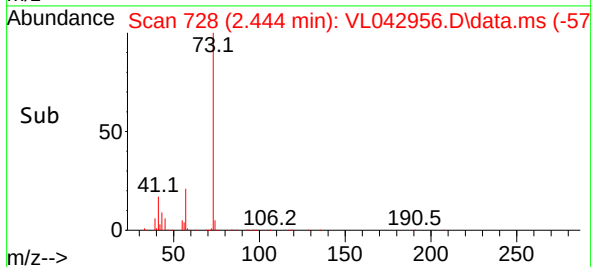
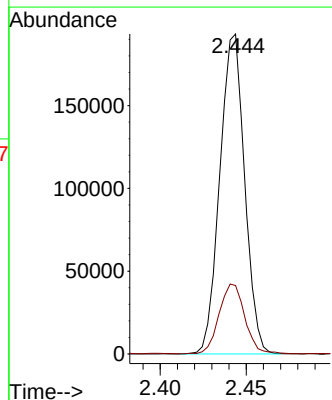
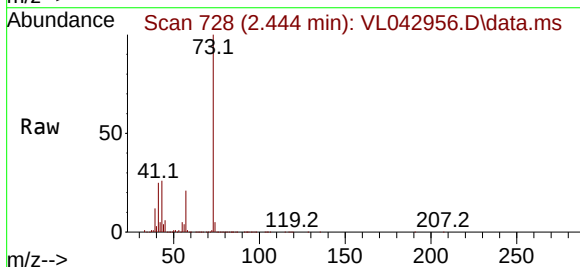
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

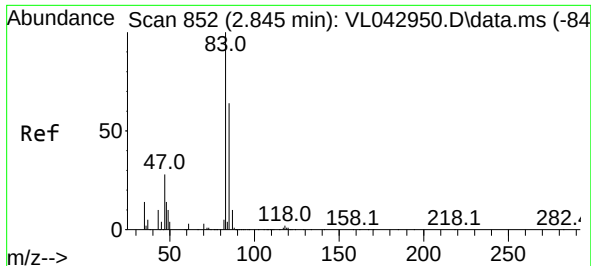
Tgt Ion: 76 Resp: 300931
Ion Ratio Lower Upper
76 100
44 21.4 15.6 23.4
78 11.8 8.9 13.3



#28
Methyl tert-Butyl Ether
Concen: 15.267 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 73 Resp: 193915
Ion Ratio Lower Upper
73 100
57 22.6 20.6 31.0





#29

Chloroform

Concen: 13.796 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

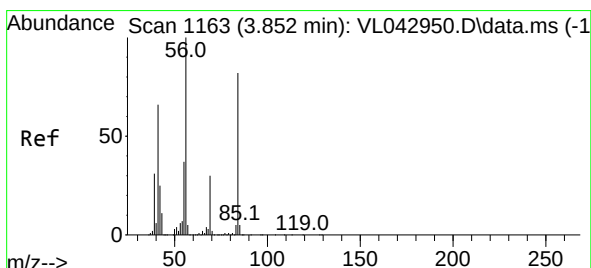
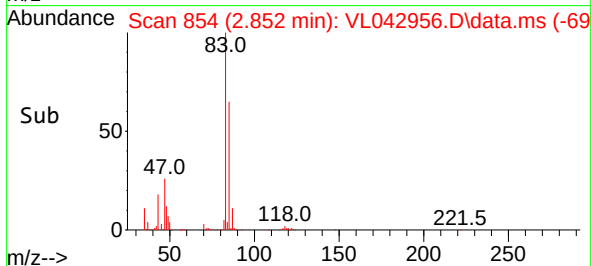
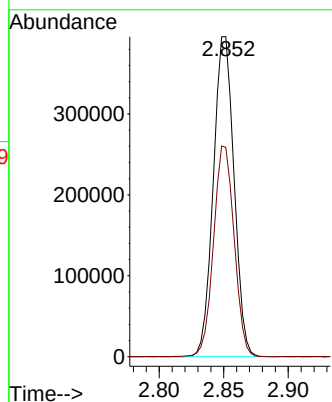
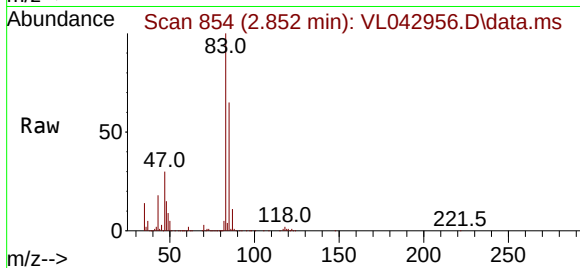
VSTDIC015

Tgt Ion: 83 Resp: 440772

Ion Ratio Lower Upper

83 100

85 65.4 51.2 76.8



#30

Cyclohexane

Concen: 13.800 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

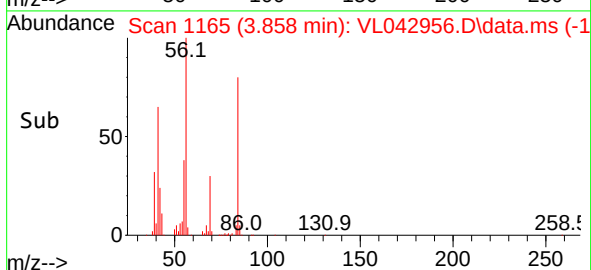
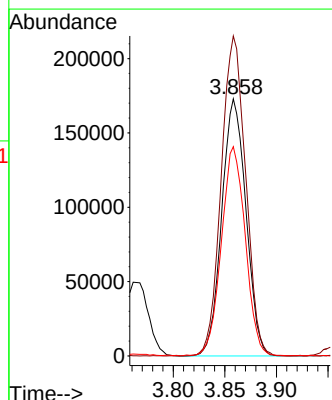
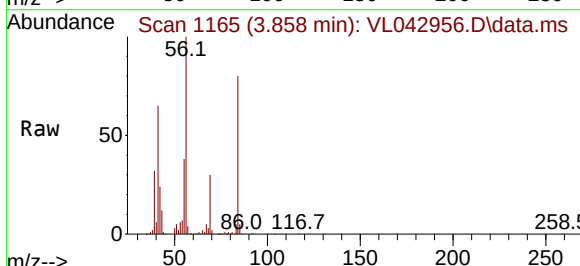
Tgt Ion: 84 Resp: 281932

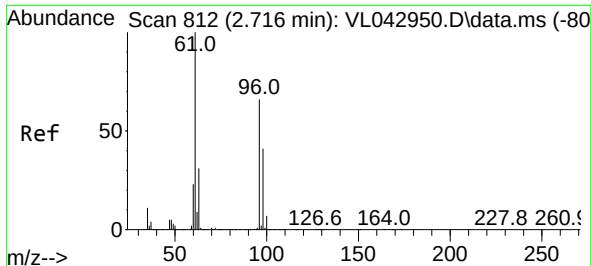
Ion Ratio Lower Upper

84 100

56 125.3 102.2 153.4

41 80.6 65.6 98.4

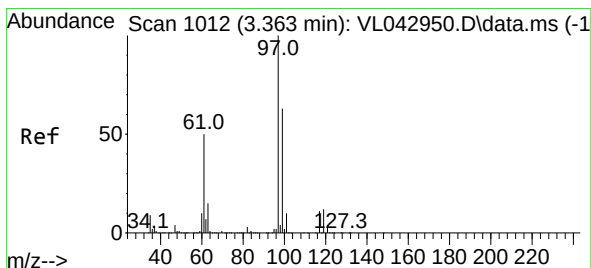
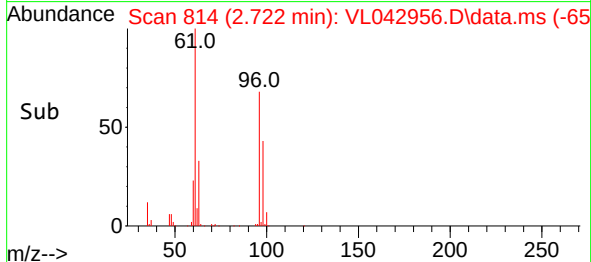
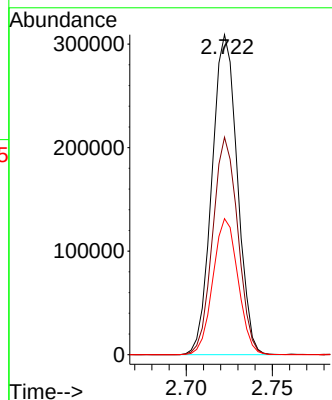
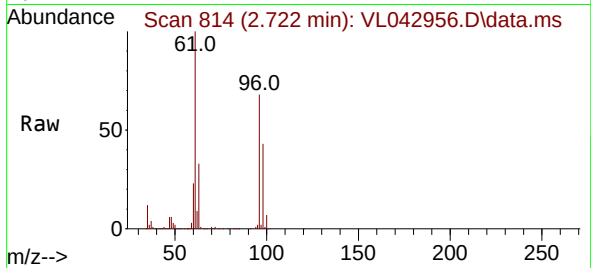




#31
 cis-1,2-Dichloroethene
 Concen: 13.869 ppbv
 RT: 2.722 min Scan# 812
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

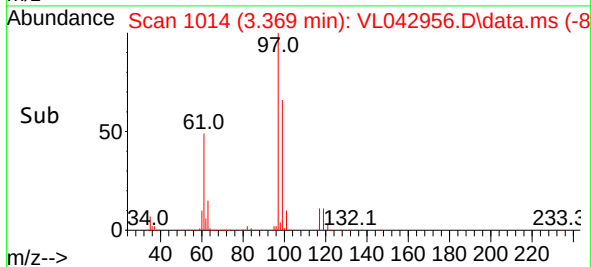
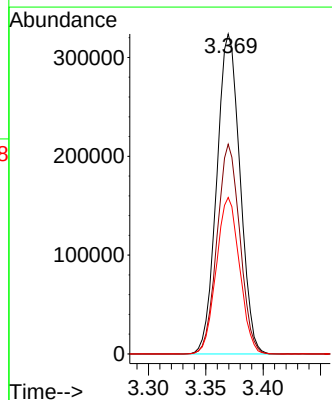
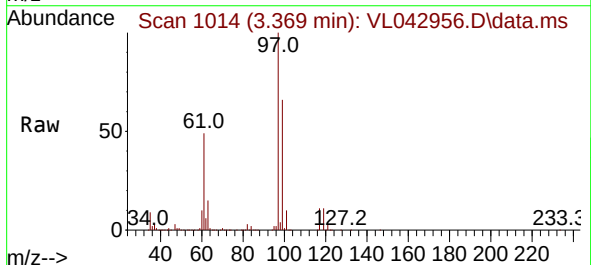
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

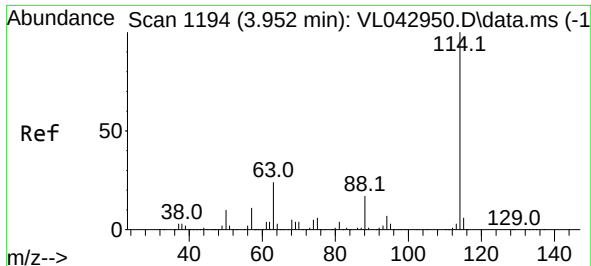
Tgt Ion: 61 Resp: 317456
 Ion Ratio Lower Upper
 61 100
 96 67.9 53.0 79.6
 98 42.5 32.9 49.3



#32
 1,1,1-Trichloroethane
 Concen: 13.178 ppbv
 RT: 3.369 min Scan# 1014
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

Tgt Ion: 97 Resp: 456335
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.1 76.7
 61 49.1 39.8 59.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

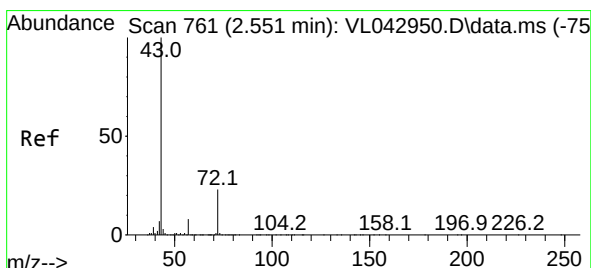
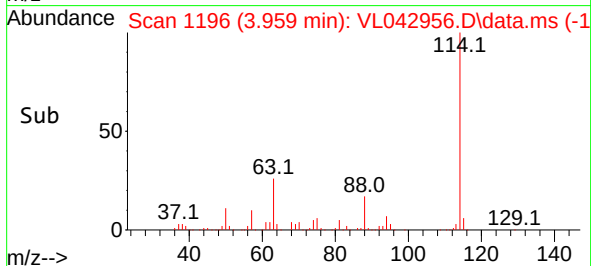
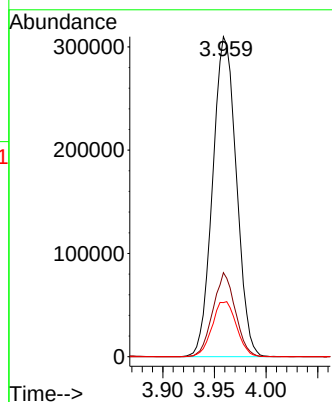
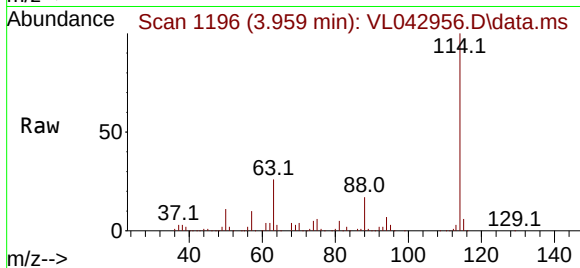
Tgt Ion:114 Resp: 494779

Ion Ratio Lower Upper

114 100

63 24.8 19.4 29.2

88 17.7 14.2 21.2



#34

2-Butanone

Concen: 13.551 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.006 min

Lab File: VL042956.D

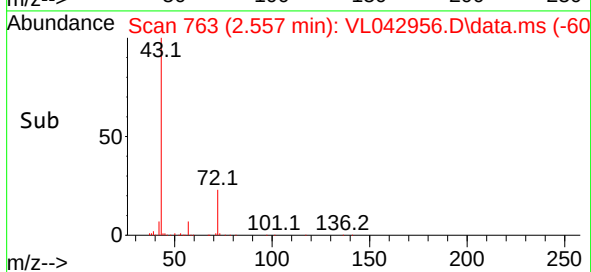
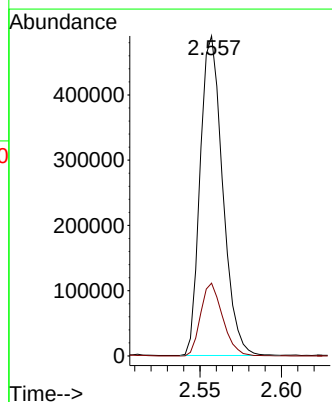
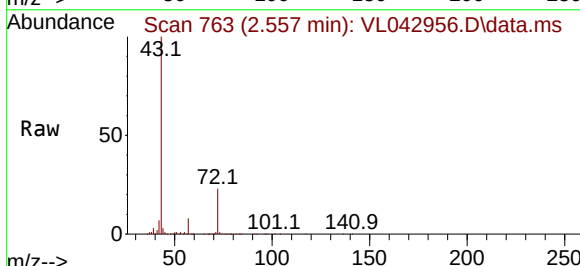
Acq: 22 Sep 2025 13:05

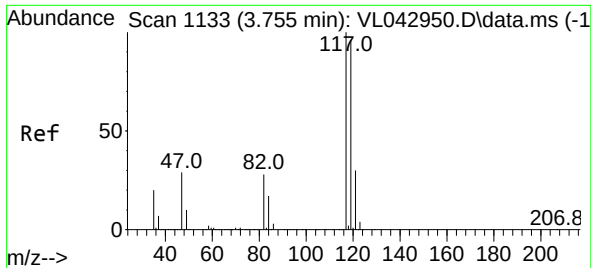
Tgt Ion: 43 Resp: 469872

Ion Ratio Lower Upper

43 100

72 22.4 17.7 26.5

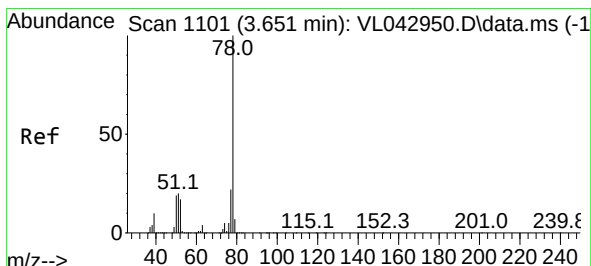
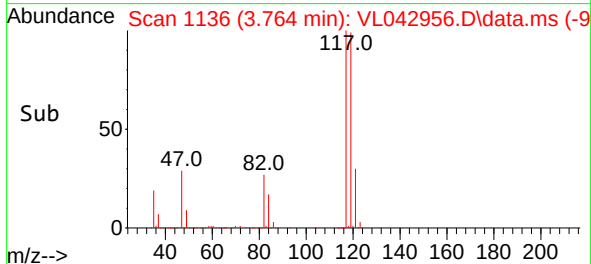
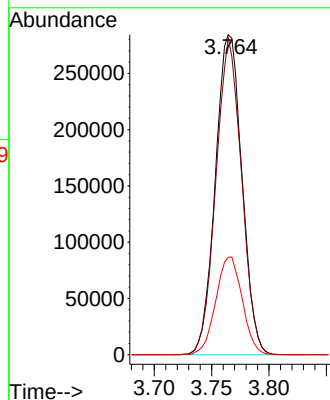
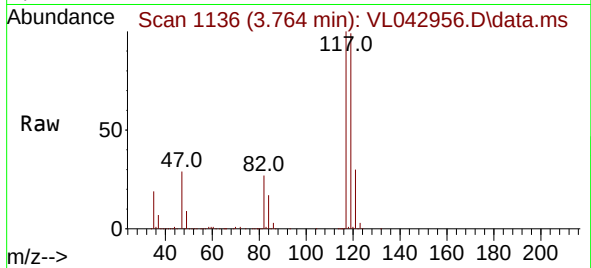




#35
Carbon Tetrachloride
Concen: 14.385 ppbv
RT: 3.764 min Scan# 1133
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

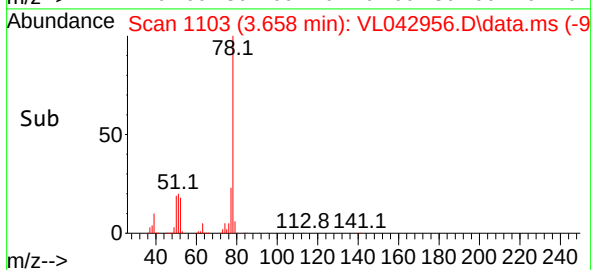
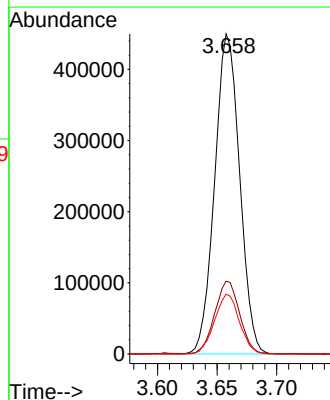
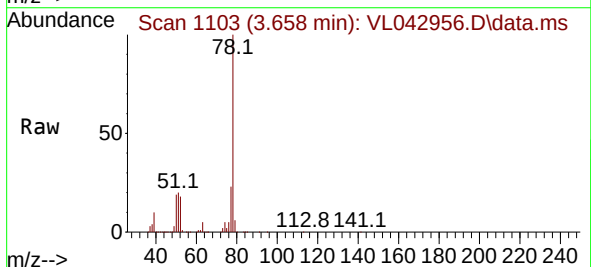
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

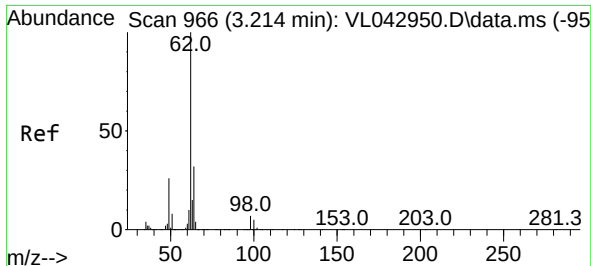
Tgt Ion:117 Resp: 457985
Ion Ratio Lower Upper
117 100
119 99.0 76.9 115.3
121 30.4 23.7 35.5



#36
Benzene
Concen: 14.080 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 78 Resp: 654205
Ion Ratio Lower Upper
78 100
77 22.7 17.8 26.6
50 18.7 15.0 22.4





#37

1,2-Dichloroethane

Concen: 14.358 ppbv

RT: 3.221 min Scan# 9

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

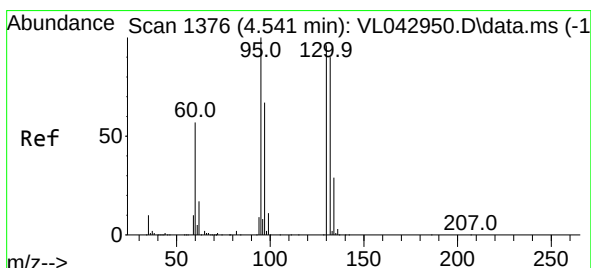
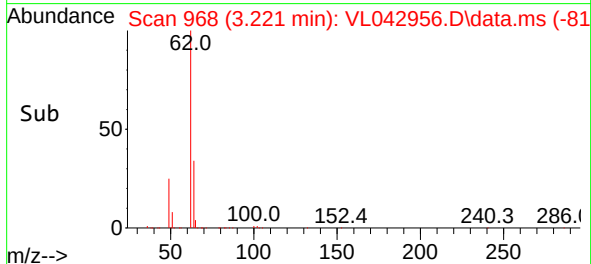
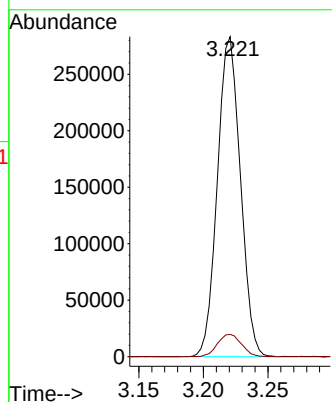
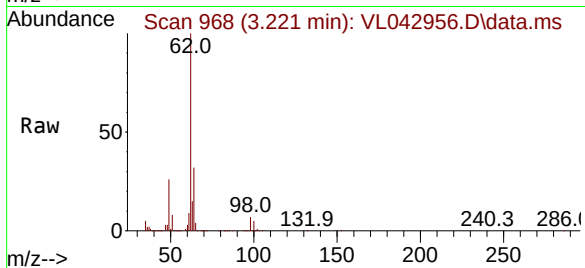
VSTDIC015

Tgt Ion: 62 Resp: 350841

Ion Ratio Lower Upper

62 100

98 7.3 5.9 8.9



#38

Trichloroethene

Concen: 13.450 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Tgt Ion:130 Resp: 310602

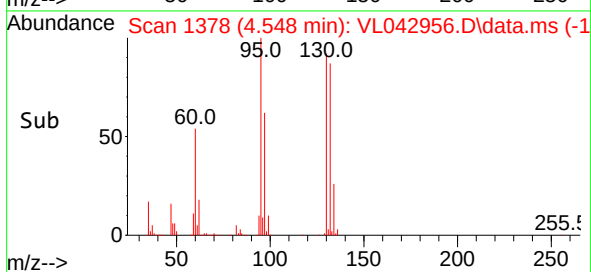
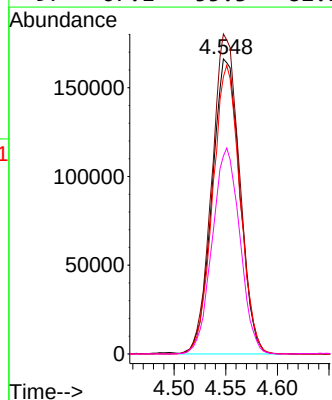
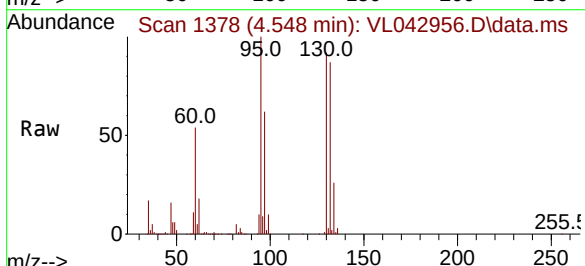
Ion Ratio Lower Upper

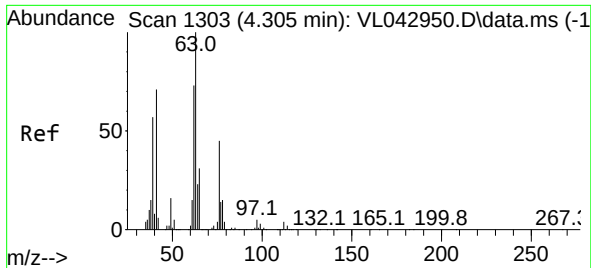
130 100

95 108.4 83.0 124.4

132 93.7 74.6 112.0

97 67.1 55.3 82.9





#39

1,2-Dichloropropane

Concen: 14.218 ppbv

RT: 4.315 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

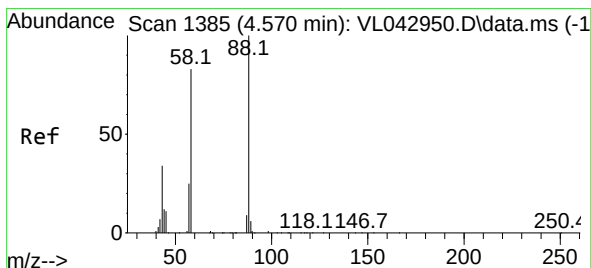
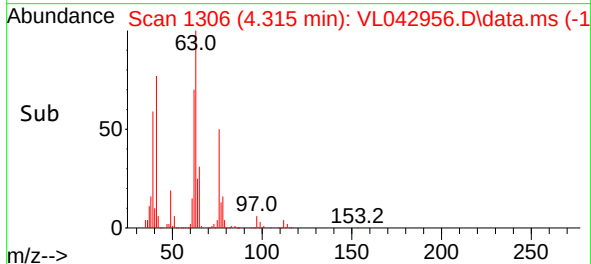
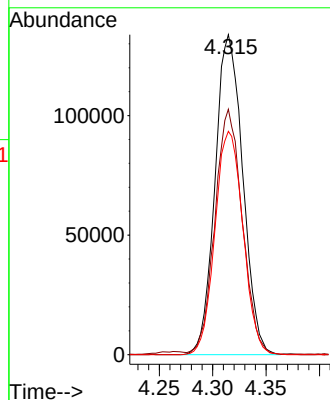
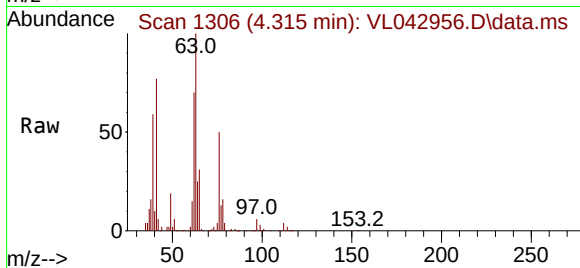
Tgt Ion: 63 Resp: 241323

Ion Ratio Lower Upper

63 100

41 76.5 57.5 86.3

62 69.8 58.5 87.7



#40

1,4-Dioxane

Concen: 13.306 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. 0.010 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Tgt Ion: 88 Resp: 104884

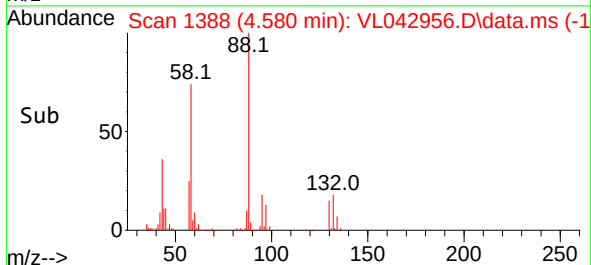
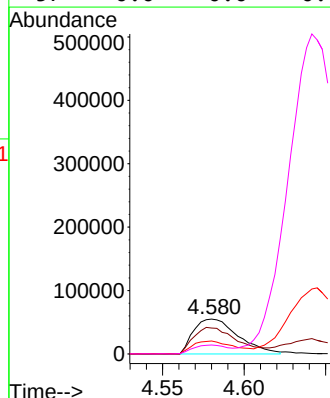
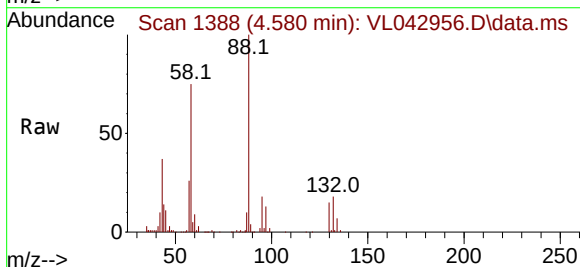
Ion Ratio Lower Upper

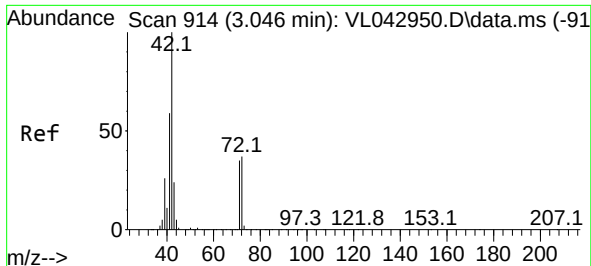
88 100

58 73.6 59.7 89.5

43 34.3 28.9 43.3

57 0.0 0.0 0.0

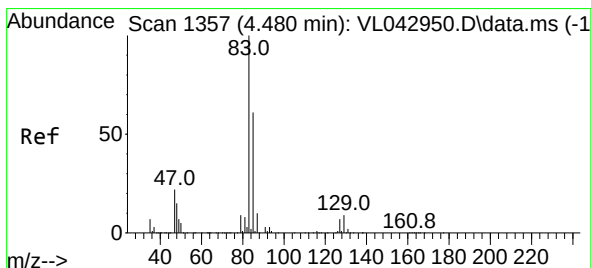
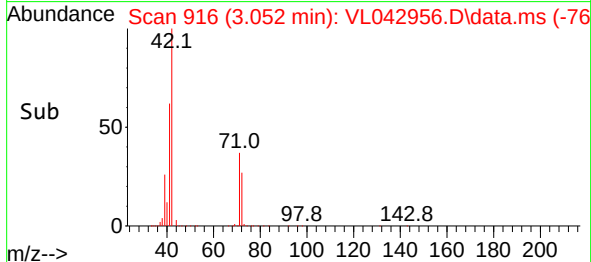
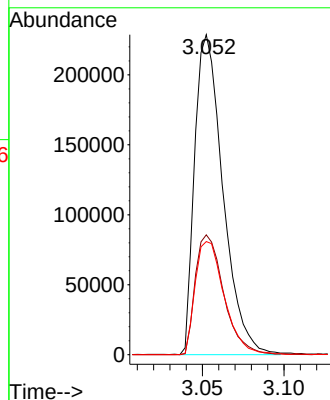
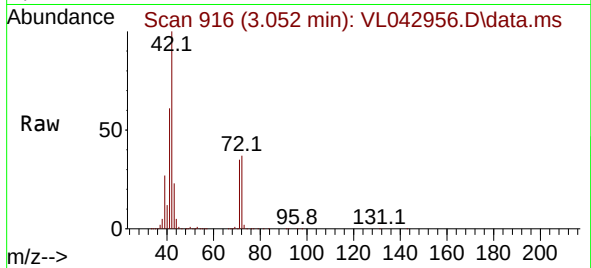




#41
Tetrahydrofuran
Concen: 13.855 ppbv
RT: 3.052 min Scan# 914
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

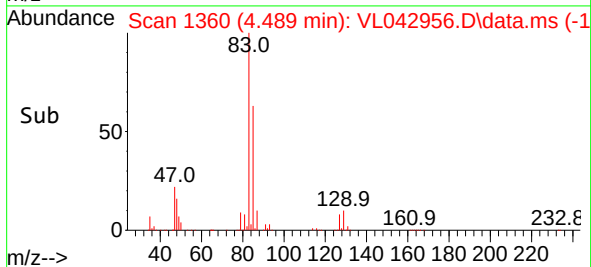
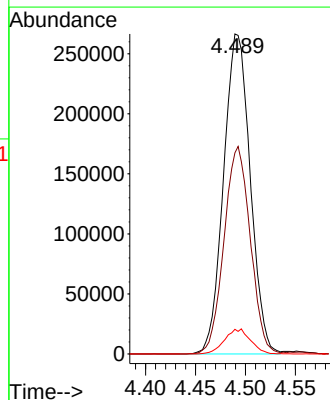
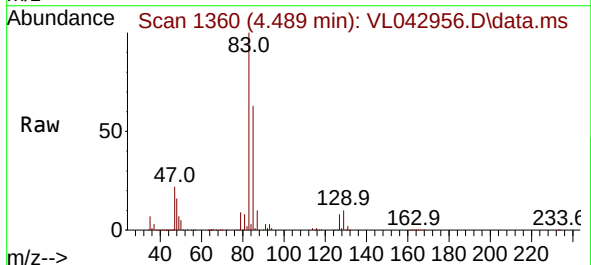
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

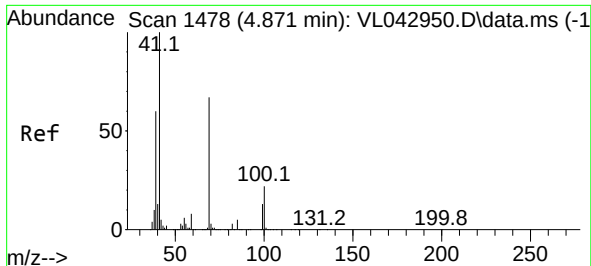
Tgt Ion: 42 Resp: 276157
Ion Ratio Lower Upper
42 100
72 37.7 30.0 45.0
71 36.6 28.8 43.2



#42
Bromodichloromethane
Concen: 14.544 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 83 Resp: 495091
Ion Ratio Lower Upper
83 100
85 62.8 49.0 73.6
127 7.7 5.3 7.9

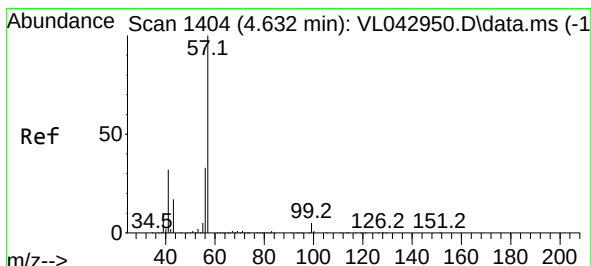
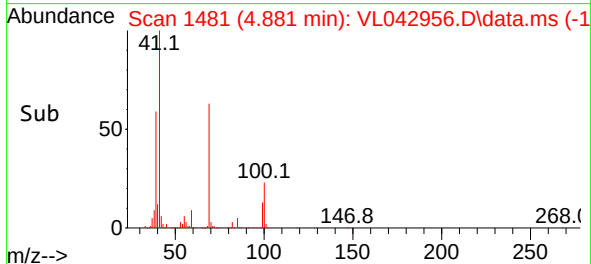
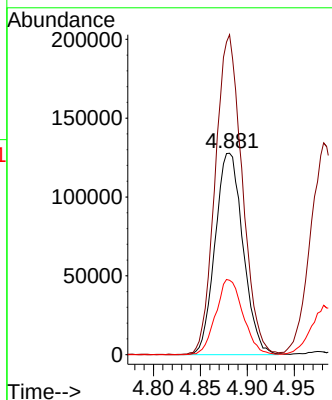
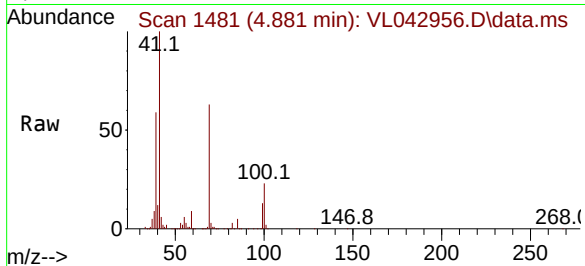




#43
Methyl Methacrylate
Concen: 13.979 ppbv
RT: 4.881 min Scan# 1478
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

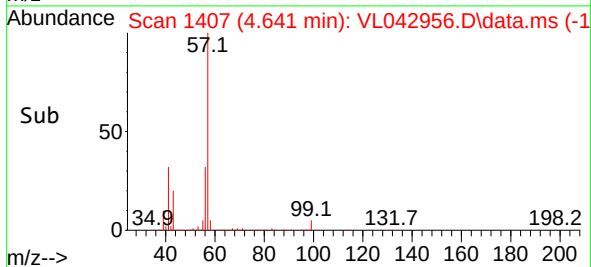
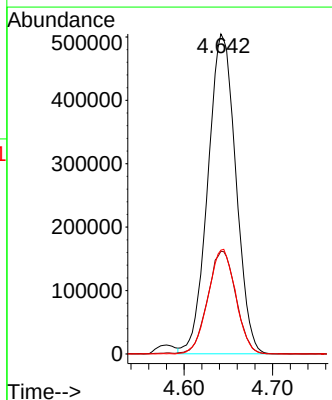
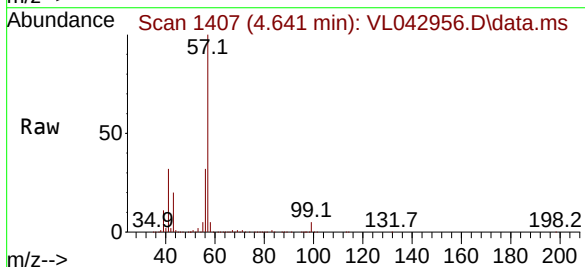
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

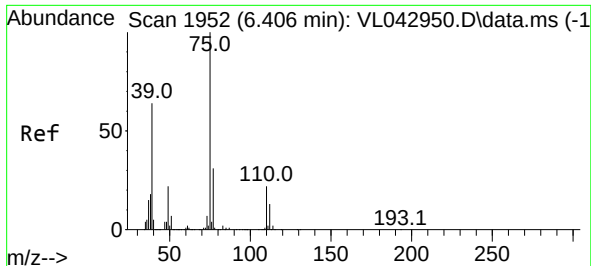
Tgt Ion: 69 Resp: 263659
Ion Ratio Lower Upper
69 100
41 153.6 124.5 186.7
100 36.4 29.0 43.6



#44
2,2,4-Trimethylpentane
Concen: 13.791 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 57 Resp: 1107180
Ion Ratio Lower Upper
57 100
41 32.6 25.5 38.3
56 32.3 25.8 38.8





#45

t-1,3-Dichloropropene

Concen: 14.694 ppbv

RT: 6.415 min Scan# 1955

Delta R.T. 0.010 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

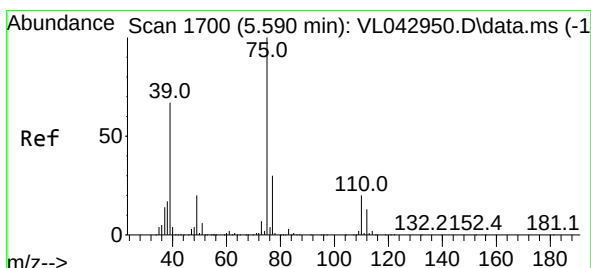
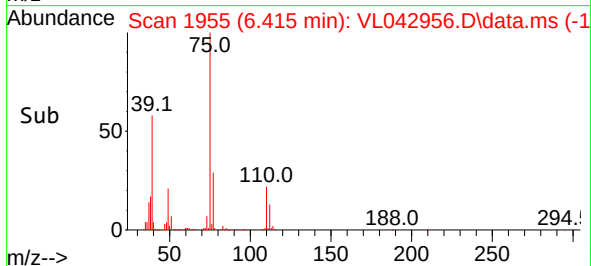
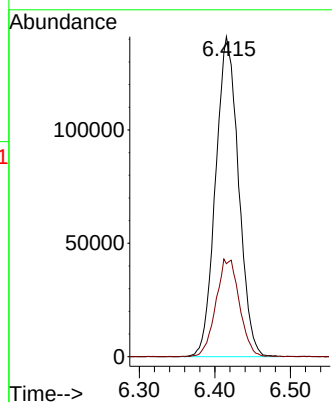
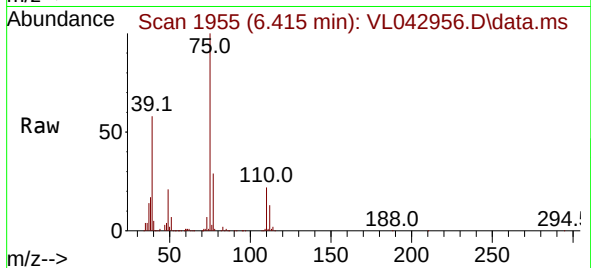
VSTDIC015

Tgt Ion: 75 Resp: 298019

Ion Ratio Lower Upper

75 100

77 29.0 25.0 37.4



#46

cis-1,3-Dichloropropene

Concen: 14.389 ppbv

RT: 5.603 min Scan# 1704

Delta R.T. 0.013 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

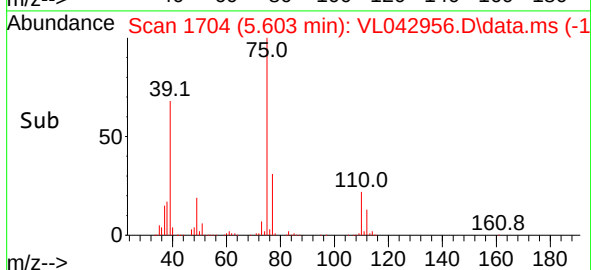
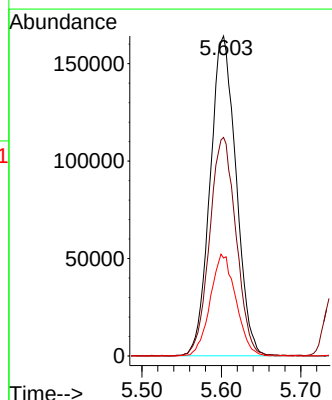
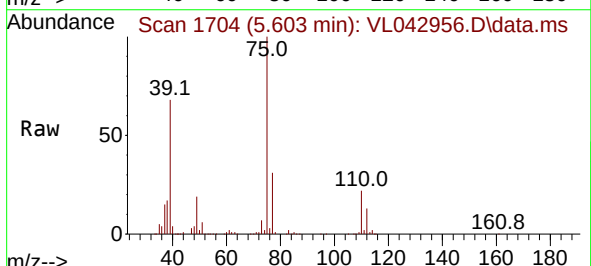
Tgt Ion: 75 Resp: 371770

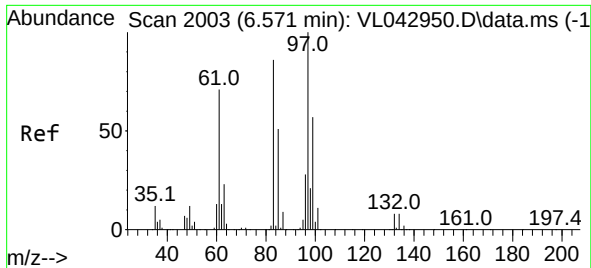
Ion Ratio Lower Upper

75 100

39 68.2 53.8 80.6

77 30.5 23.6 35.4



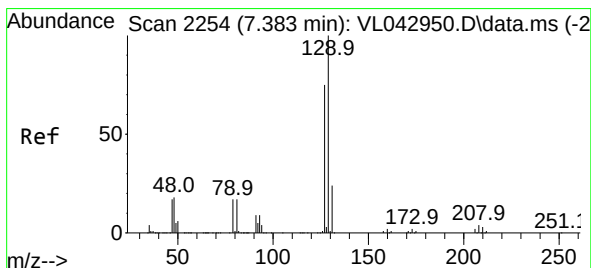
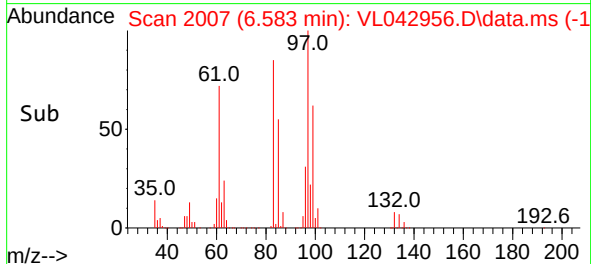
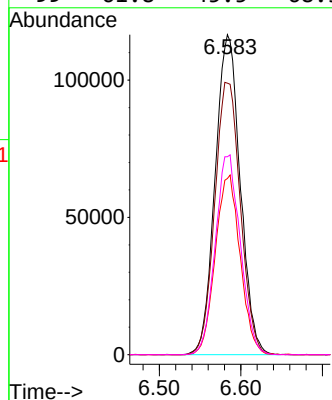
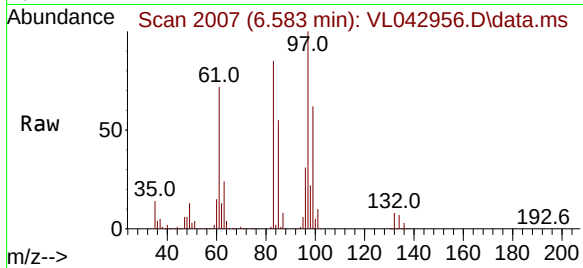


#47
 1,1,2-Trichloroethane
 Concen: 13.909 ppbv
 RT: 6.583 min Scan# 20
 Delta R.T. 0.013 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 97 Resp: 249453

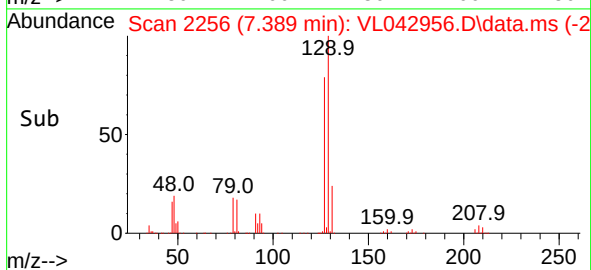
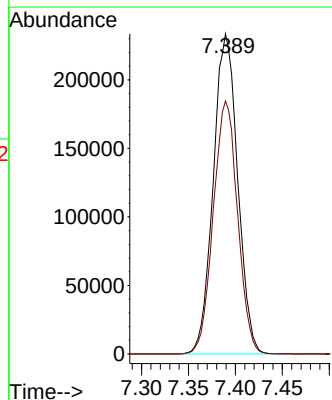
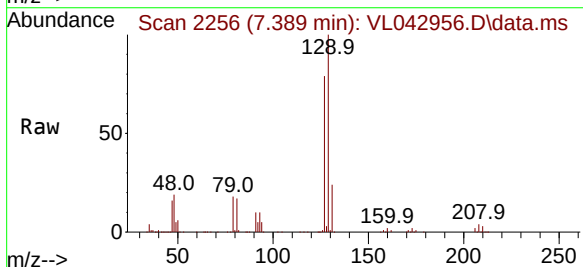
Ion	Ratio	Lower	Upper
97	100		
83	84.9	68.7	103.1
85	55.1	40.6	60.8
99	61.8	45.5	68.3

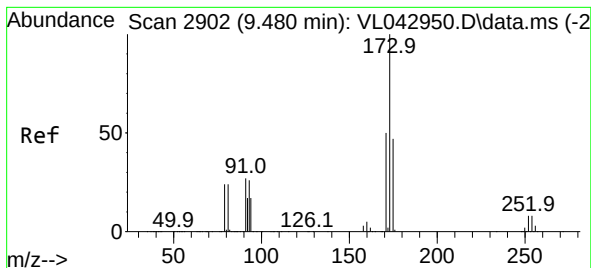


#48
 Dibromochloromethane
 Concen: 14.709 ppbv
 RT: 7.389 min Scan# 2256
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

Tgt Ion: 129 Resp: 421755

Ion	Ratio	Lower	Upper
129	100		
127	78.7	39.1	117.2





#49

Bromoform

Concen: 14.719 ppbv

RT: 9.487 min Scan# 2904

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

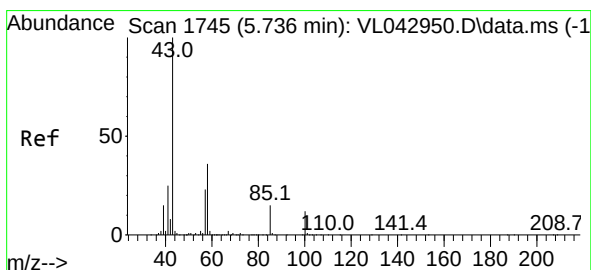
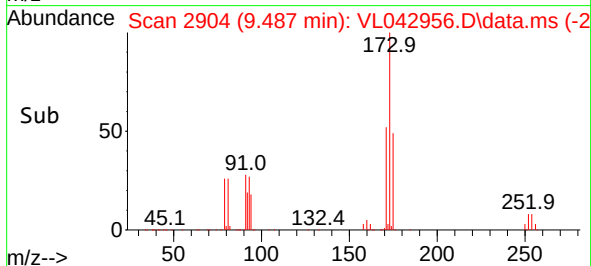
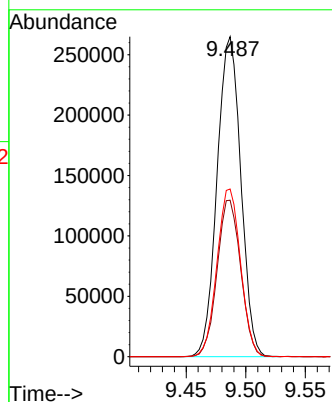
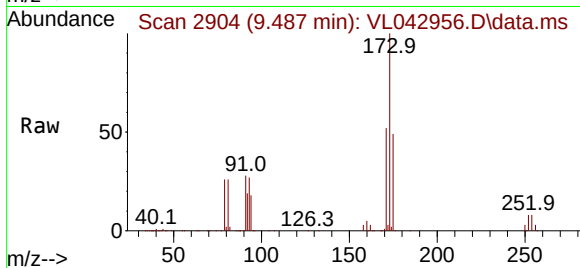
Tgt Ion:173 Resp: 367120

Ion Ratio Lower Upper

173 100

175 48.6 37.9 56.9

171 52.0 41.1 61.7



#50

4-Methyl-2-Pentanone

Concen: 14.293 ppbv

RT: 5.748 min Scan# 1749

Delta R.T. 0.013 min

Lab File: VL042956.D

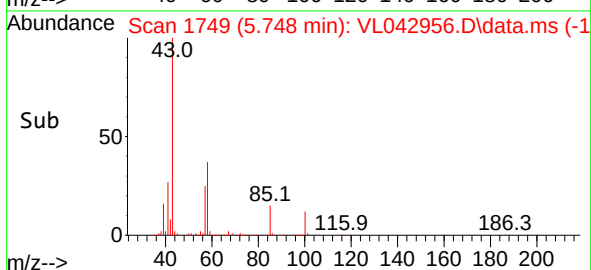
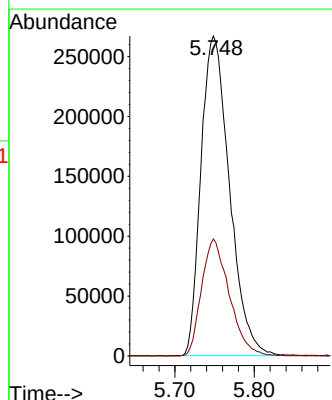
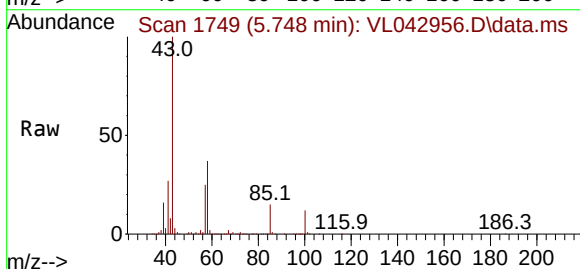
Acq: 22 Sep 2025 13:05

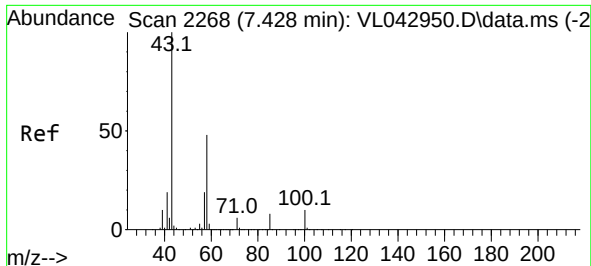
Tgt Ion: 43 Resp: 666049

Ion Ratio Lower Upper

43 100

58 35.7 28.4 42.6

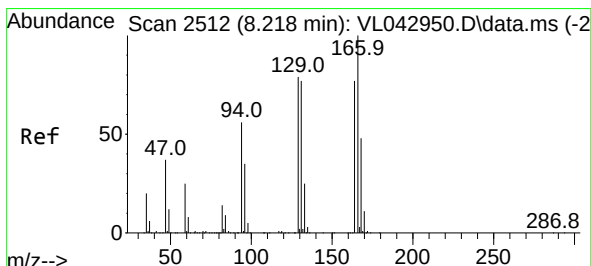
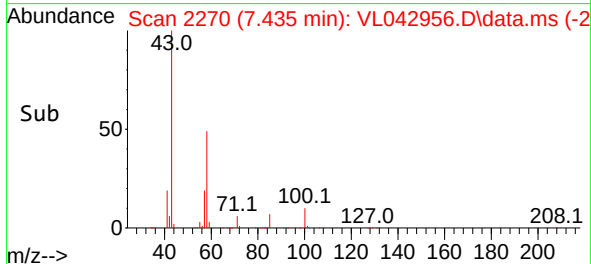
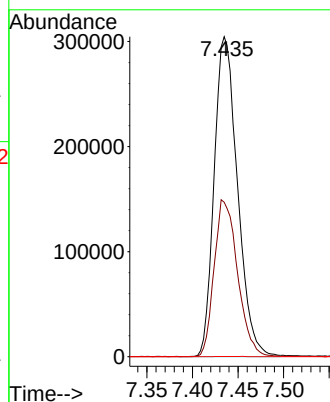
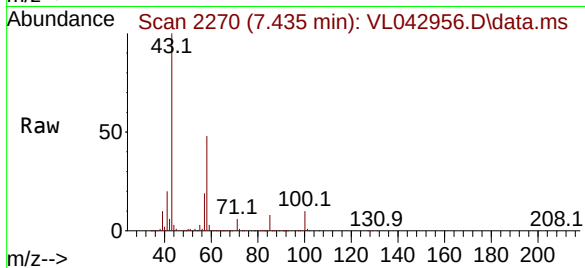




#51
2-Hexanone
Concen: 14.620 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

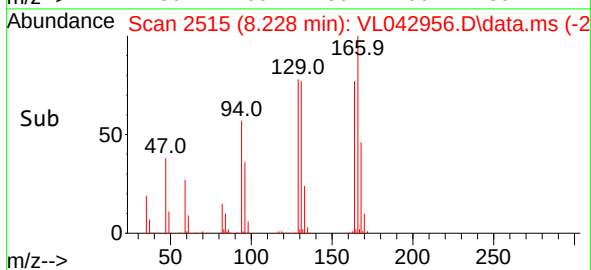
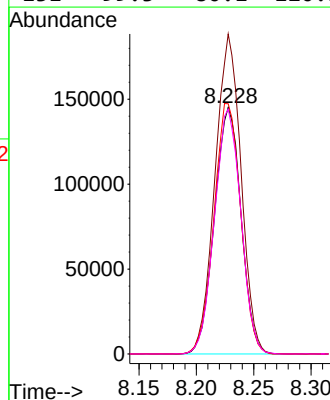
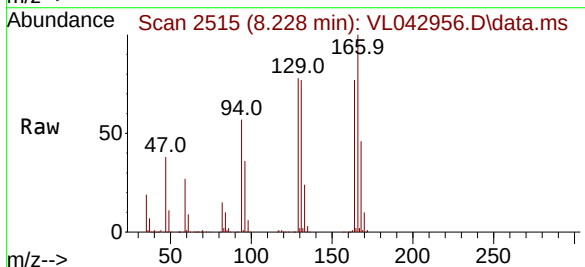
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

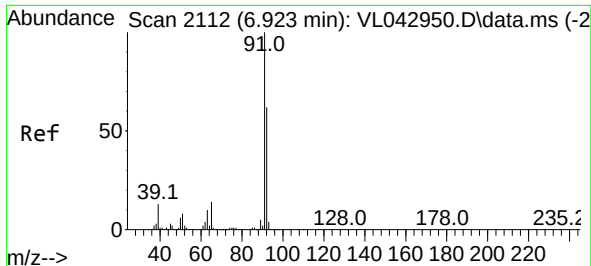
Tgt Ion: 43 Resp: 541611
Ion Ratio Lower Upper
43 100
58 49.4 39.7 59.5
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 13.015 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 164 Resp: 233980
Ion Ratio Lower Upper
164 100
166 129.8 103.5 155.3
129 101.4 82.2 123.4
131 99.3 80.1 120.1

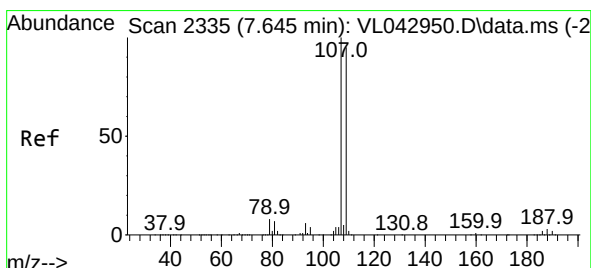
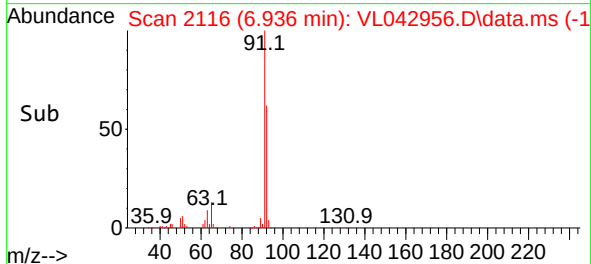
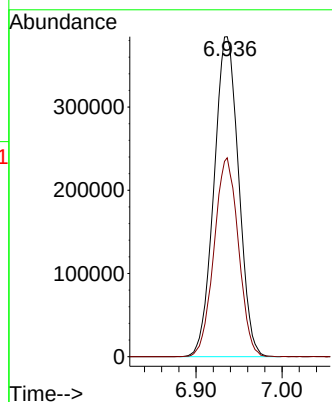
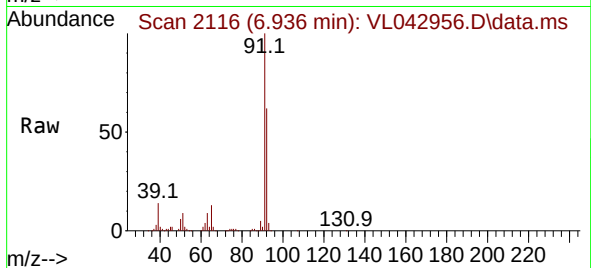




#53
Toluene
Concen: 13.915 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.013 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

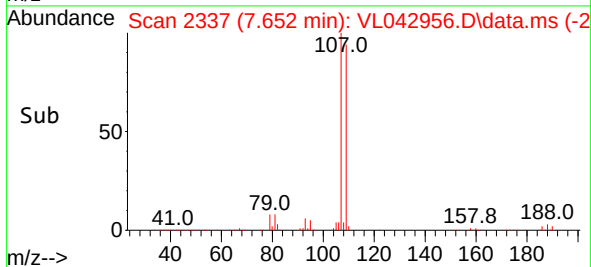
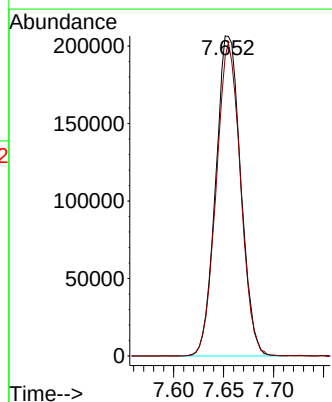
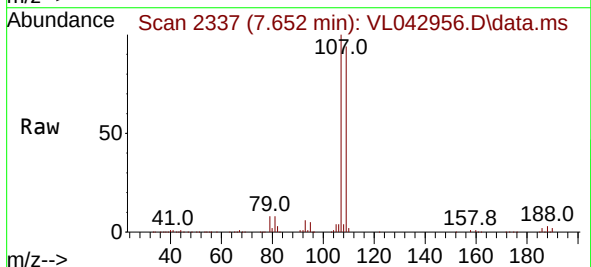
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

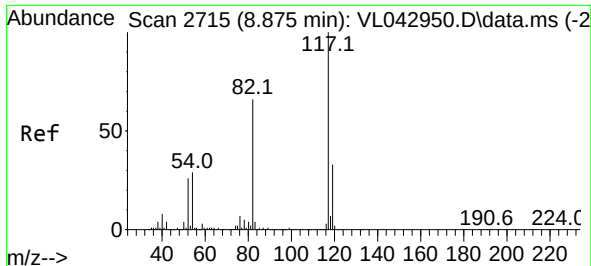
Tgt Ion: 91 Resp: 765216
Ion Ratio Lower Upper
91 100
92 61.5 48.2 72.2



#54
1,2-Dibromoethane
Concen: 14.261 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 107 Resp: 359750
Ion Ratio Lower Upper
107 100
109 93.6 75.8 113.8

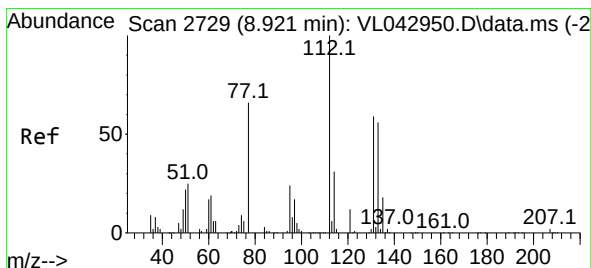
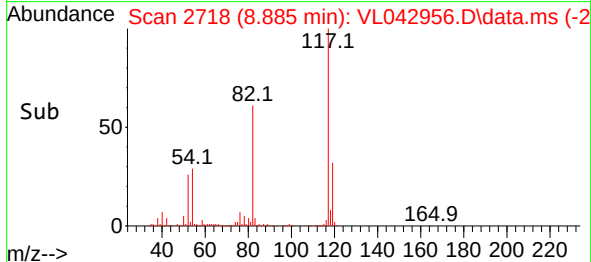
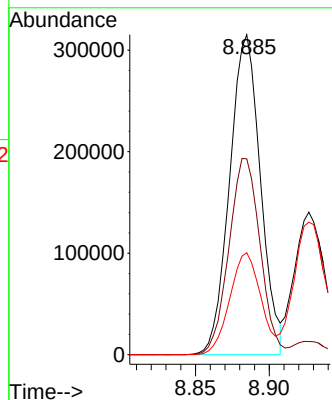
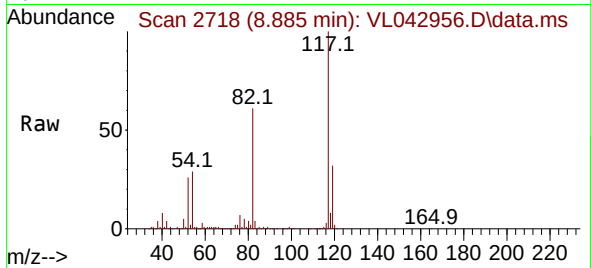




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2715
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

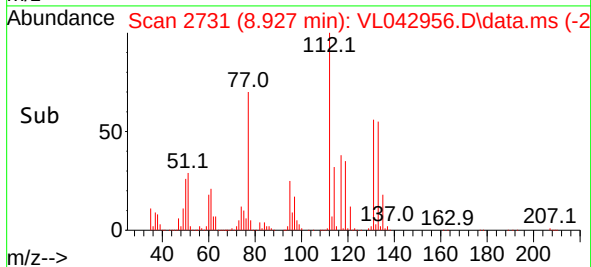
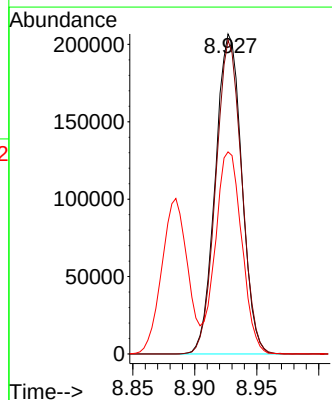
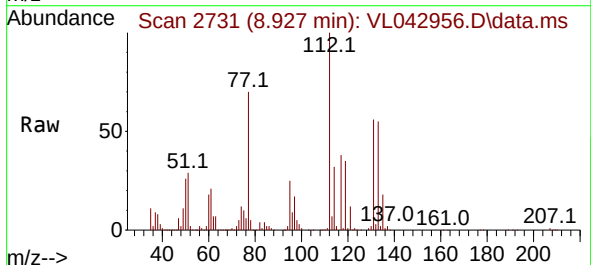
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

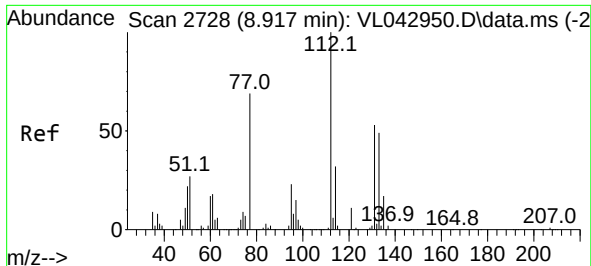
Tgt Ion:117 Resp: 458256
Ion Ratio Lower Upper
117 100
82 66.3 52.8 79.2
119 32.0 26.5 39.7



#56
1,1,1,2-Tetrachloroethane
Concen: 13.994 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion:131 Resp: 306952
Ion Ratio Lower Upper
131 100
133 96.4 76.6 114.8
119 63.3 49.9 74.9

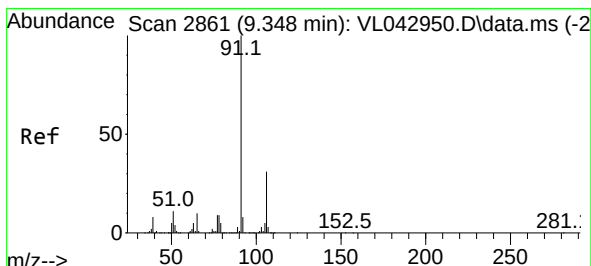
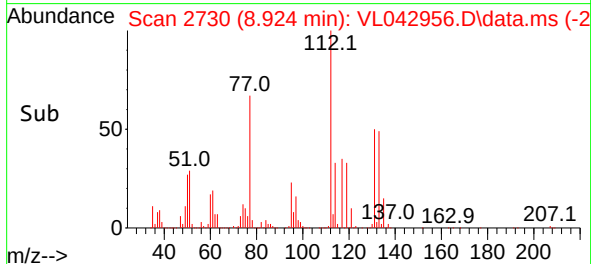
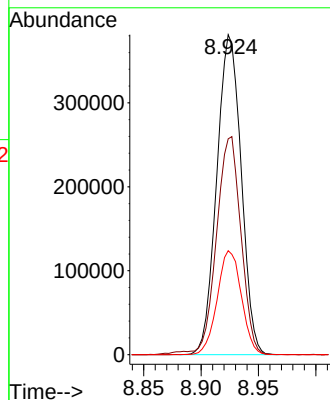
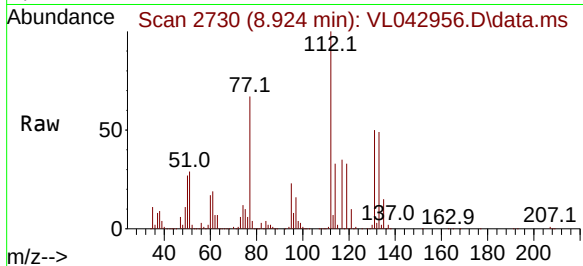




#57
Chlorobenzene
Concen: 13.507 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

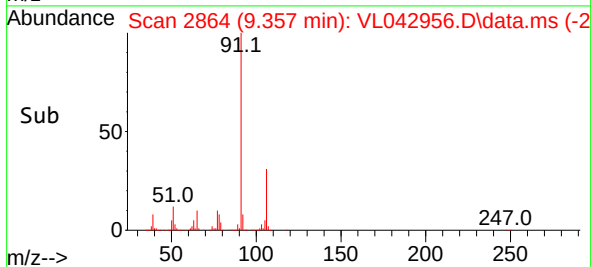
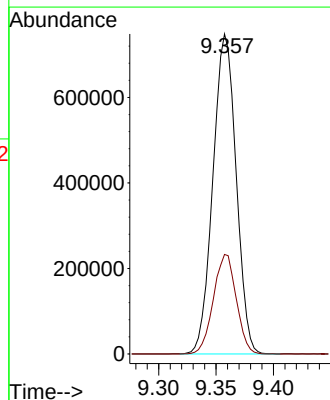
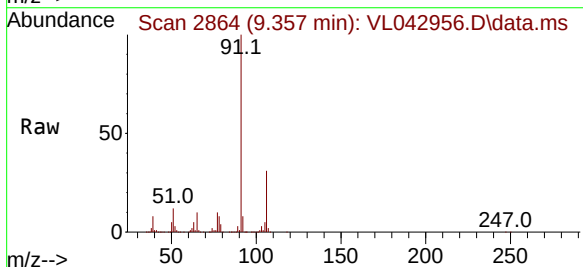
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

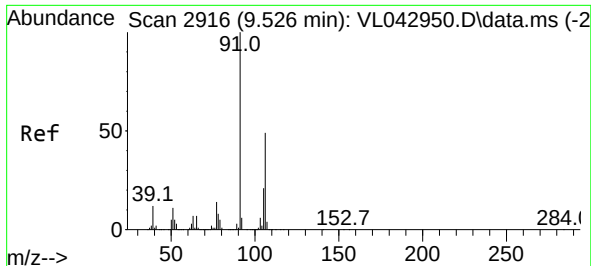
Tgt Ion:112 Resp: 565065
Ion Ratio Lower Upper
112 100
77 67.4 55.7 83.5
114 32.5 28.6 35.0



#58
Ethyl Benzene
Concen: 13.985 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 91 Resp: 1052303
Ion Ratio Lower Upper
91 100
106 31.1 24.6 37.0

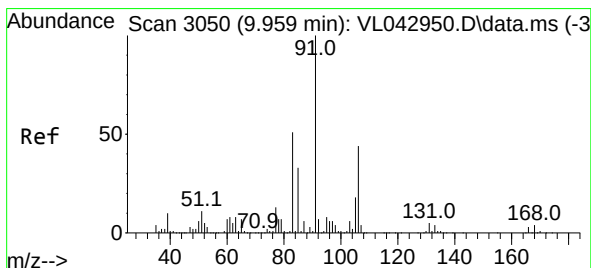
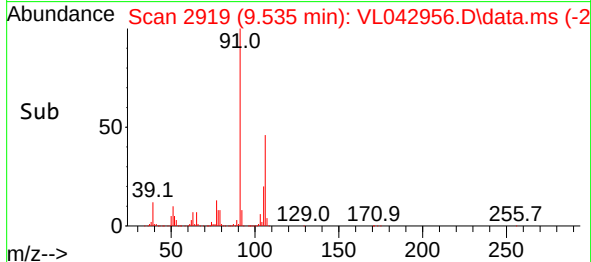
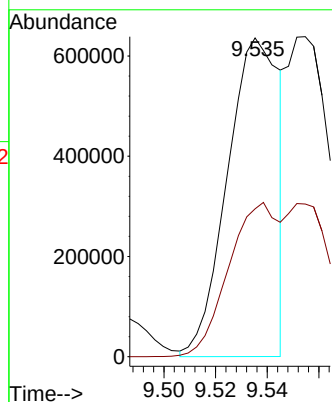
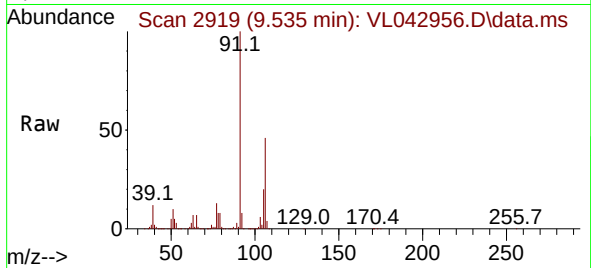




#59
m/p-Xylene
Concen: 14.831 ppbv
RT: 9.535 min Scan# 2919
Delta R.T. 0.010 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

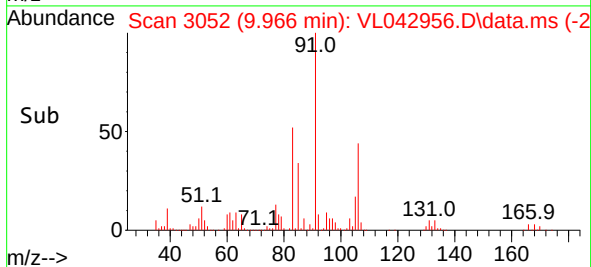
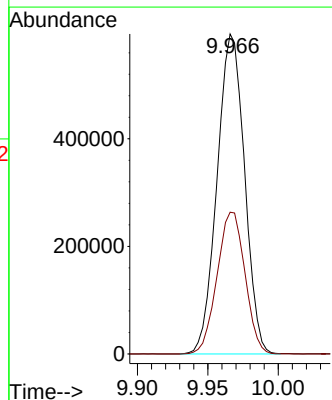
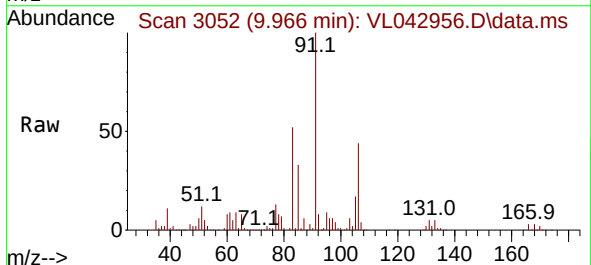
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

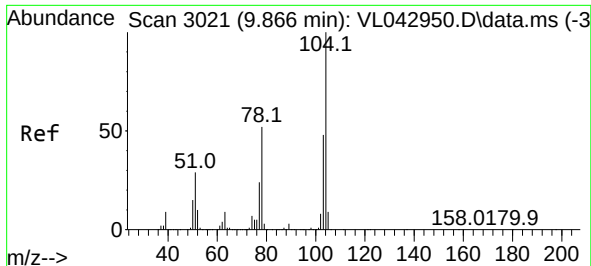
Tgt Ion: 91 Resp: 880462
Ion Ratio Lower Upper
91 100
106 88.7 0.0 0.0#



#60
o-Xylene
Concen: 13.629 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 91 Resp: 808098
Ion Ratio Lower Upper
91 100
106 45.0 22.4 67.0

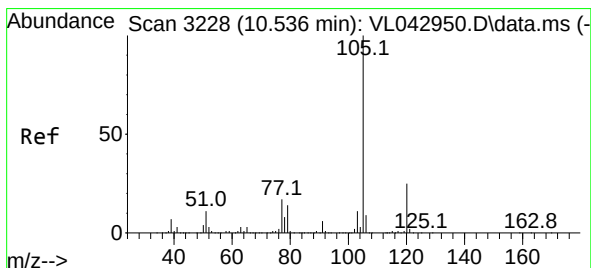
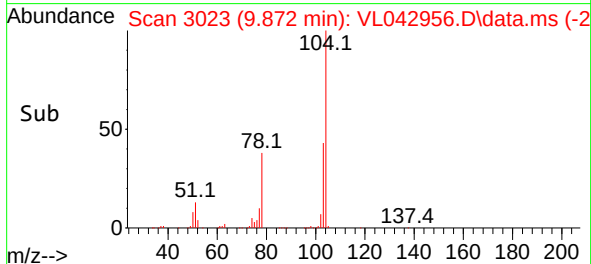
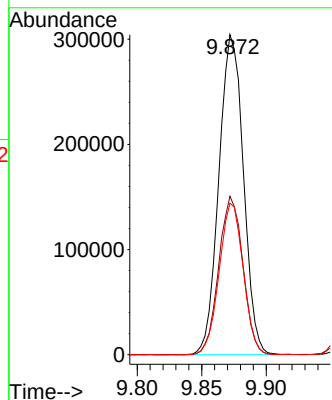
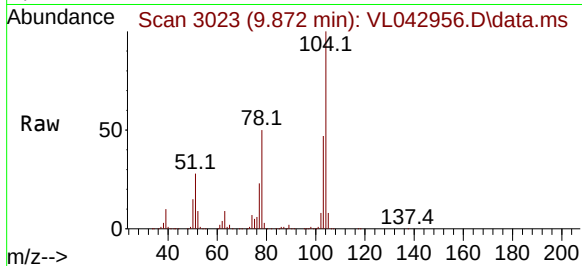




#61
Styrene
Concen: 14.330 ppbv
RT: 9.872 min Scan# 3021
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

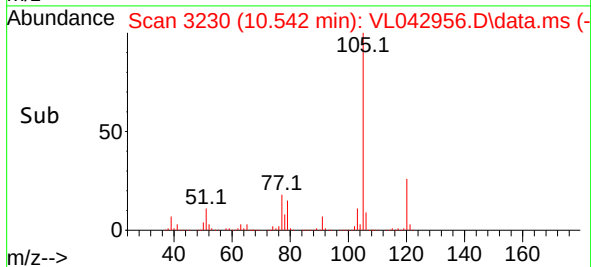
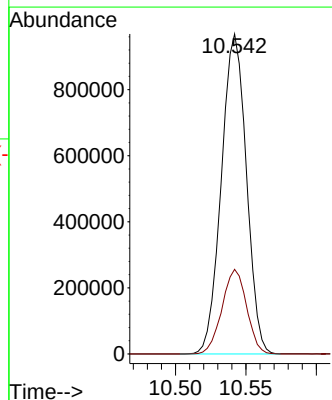
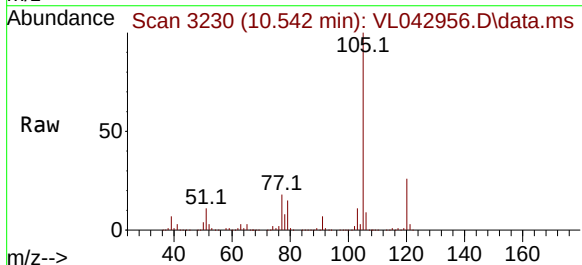
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

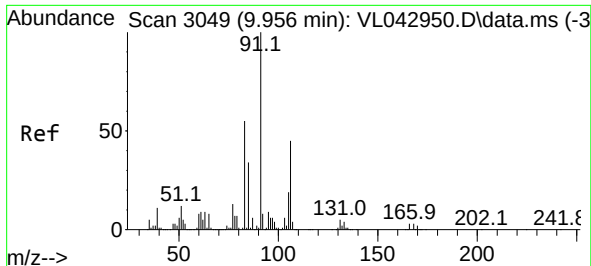
Tgt Ion:104 Resp: 401899
Ion Ratio Lower Upper
104 100
78 48.8 39.9 59.9
103 46.5 36.9 55.3



#62
Isopropylbenzene
Concen: 13.564 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion:105 Resp: 1198767
Ion Ratio Lower Upper
105 100
120 25.9 20.6 30.8



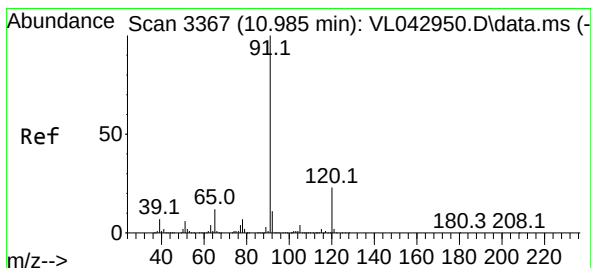
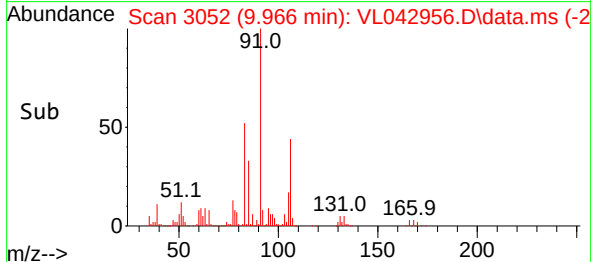
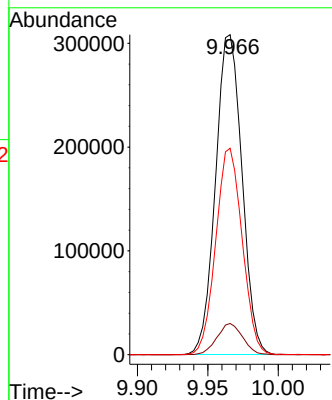
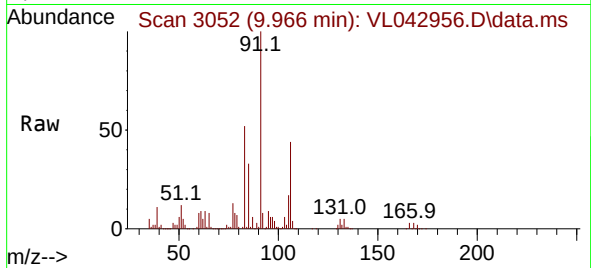


#63
 1,1,2,2-Tetrachloroethane
 Concen: 12.932 ppbv
 RT: 9.966 min Scan# 3049
 Delta R.T. 0.010 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

Tgt Ion: 83 Resp: 403038

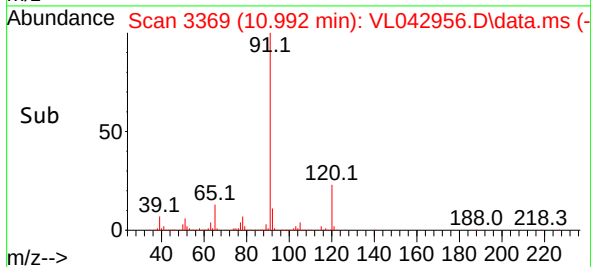
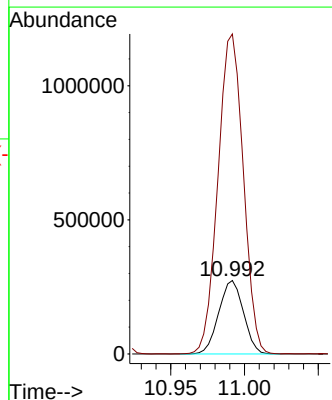
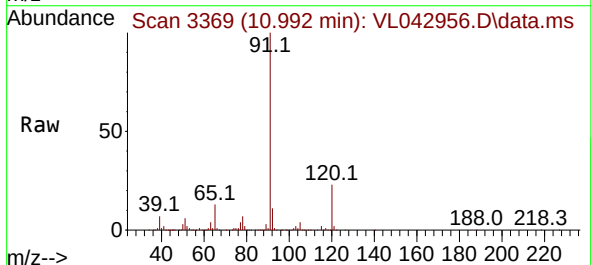
Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.4
85	64.5	32.2	96.6

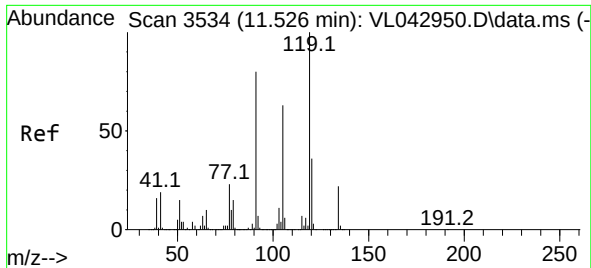


#64
 n-propylbenzene
 Concen: 13.793 ppbv
 RT: 10.992 min Scan# 3369
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

Tgt Ion: 120 Resp: 318541

Ion	Ratio	Lower	Upper
120	100		
91	448.5	364.9	547.3

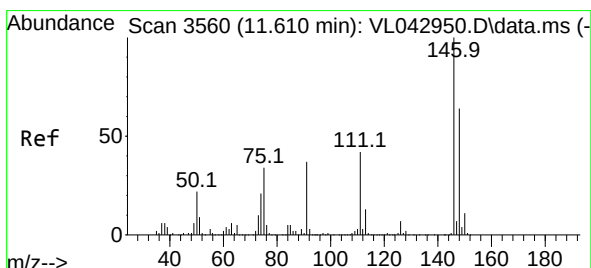
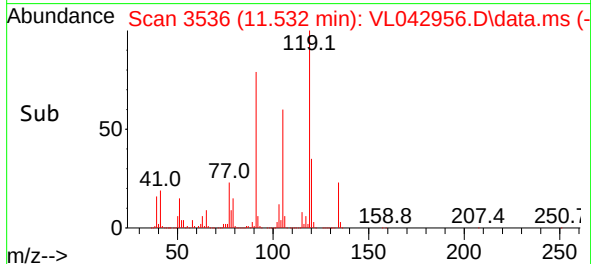
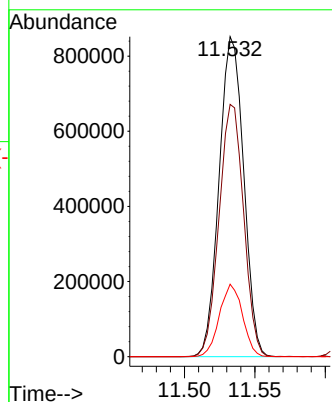
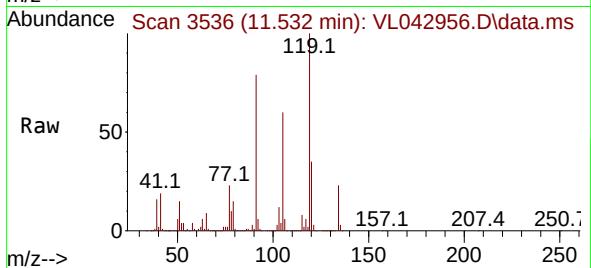




#65
tert-Butylbenzene
Concen: 13.146 ppbv
RT: 11.532 min Scan# 3534
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

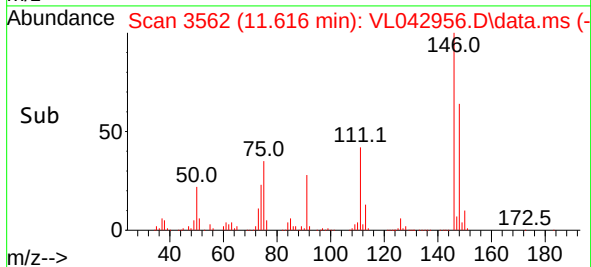
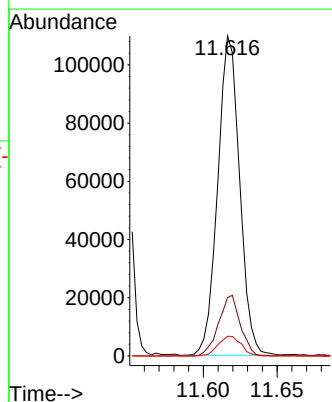
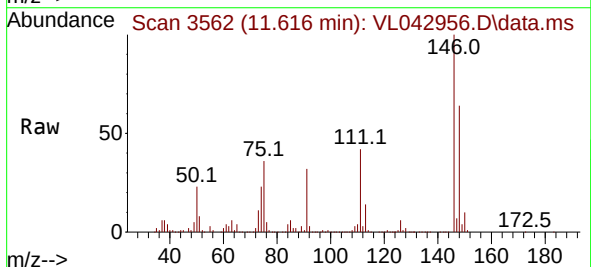
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

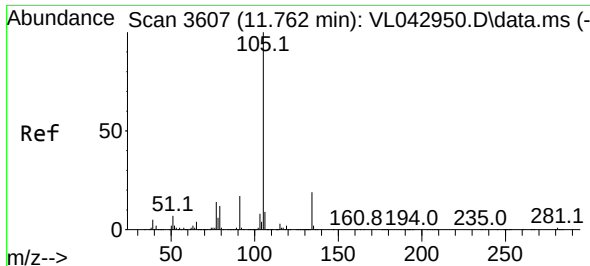
Tgt Ion:119 Resp: 1033382
Ion Ratio Lower Upper
119 100
91 78.8 63.1 94.7
134 21.4 17.0 25.6



#66
Benzyl Chloride
Concen: 13.767 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 91 Resp: 113549
Ion Ratio Lower Upper
91 100
126 18.8 14.6 21.8
128 6.5 5.0 7.4

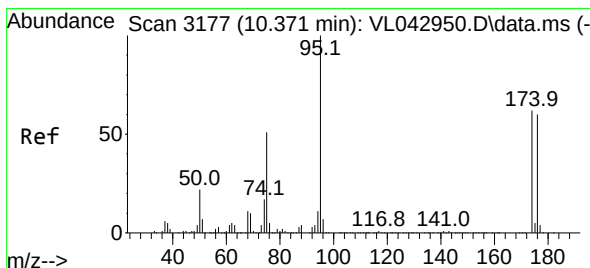
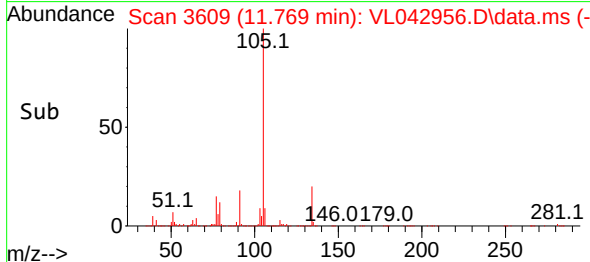
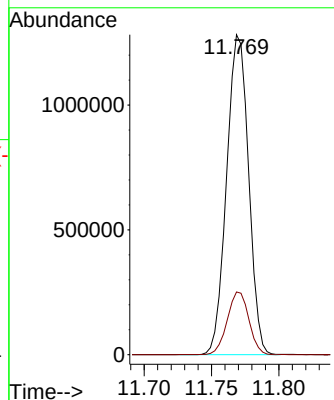
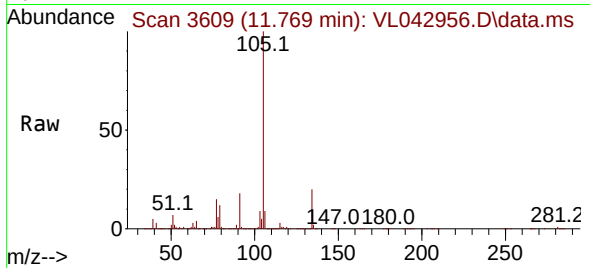




#67
 sec-Butylbenzene
 Concen: 13.276 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

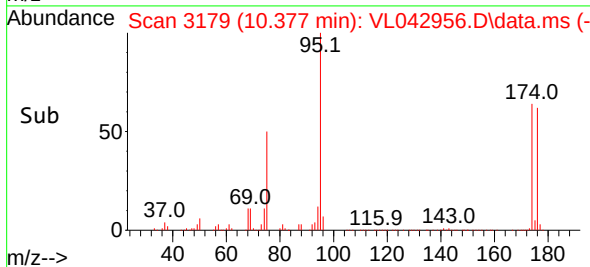
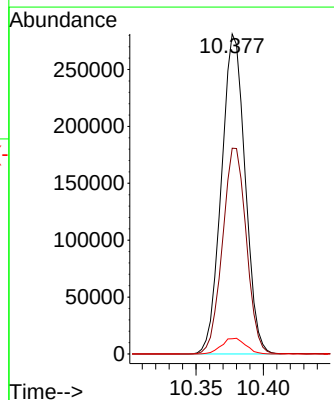
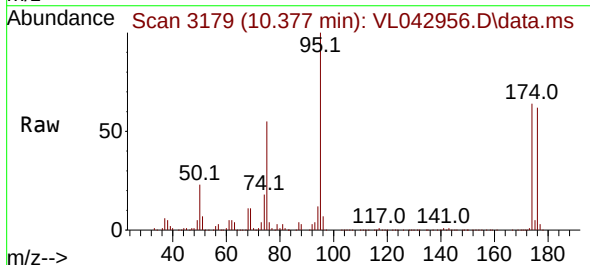
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

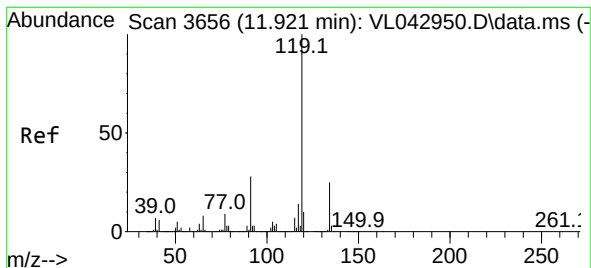
Tgt Ion:105 Resp: 1454158
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.7 23.5



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.049 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

Tgt Ion: 95 Resp: 343752
 Ion Ratio Lower Upper
 95 100
 174 64.8 51.4 77.2
 175 5.0 4.0 6.0

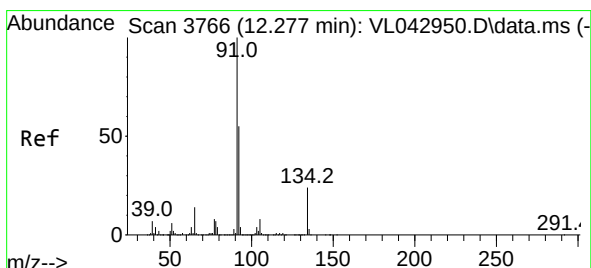
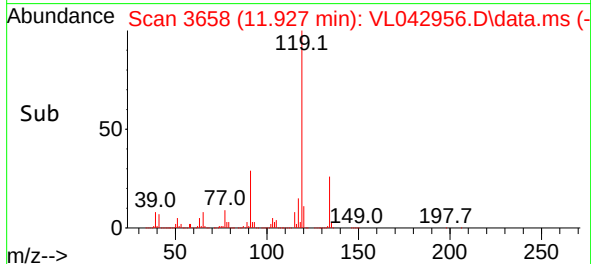
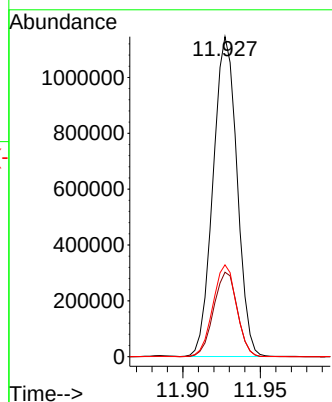
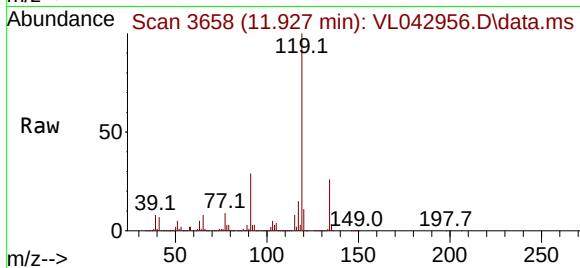




#69
p-Isopropyltoluene
Concen: 13.280 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

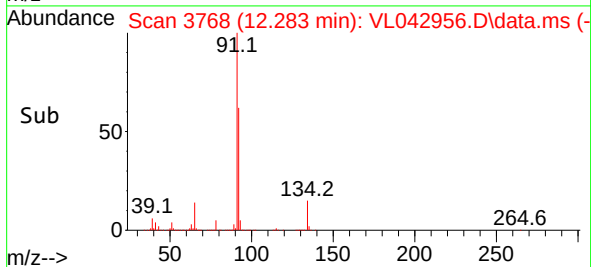
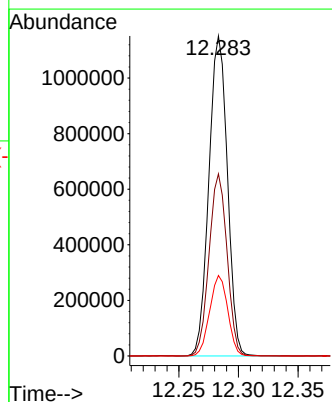
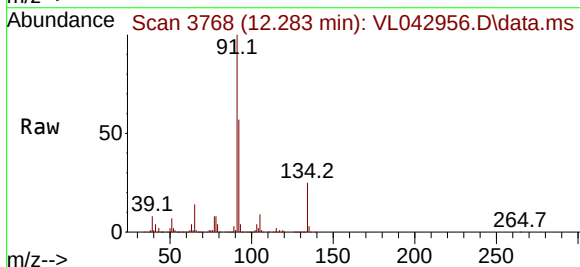
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

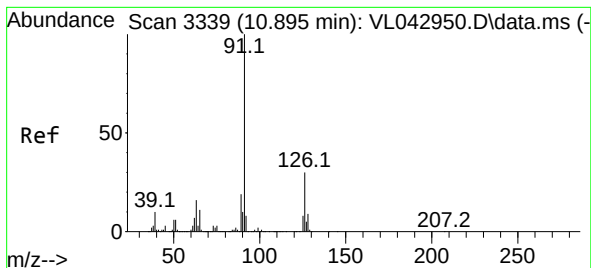
Tgt Ion:119 Resp: 1228773
Ion Ratio Lower Upper
119 100
134 26.2 21.0 31.4
91 28.4 22.3 33.5



#70
n-Butylbenzene
Concen: 13.716 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.006 min
Lab File: VL042956.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 91 Resp: 1239042
Ion Ratio Lower Upper
91 100
92 55.5 44.0 66.0
134 24.6 19.4 29.2





#71

2-Chlorotoluene

Concen: 13.733 ppbv

RT: 10.904 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

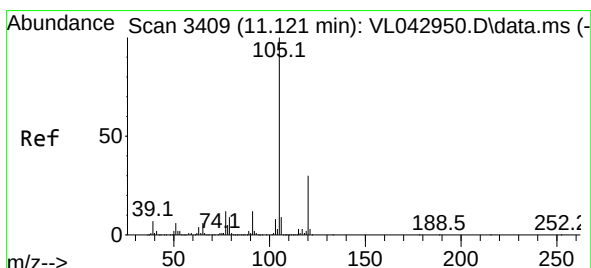
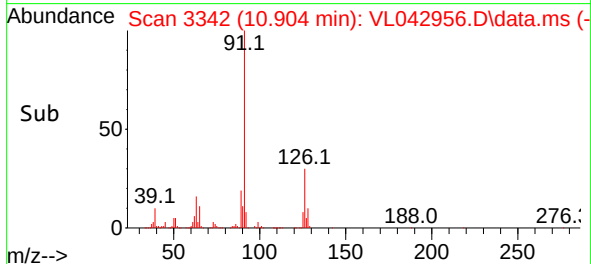
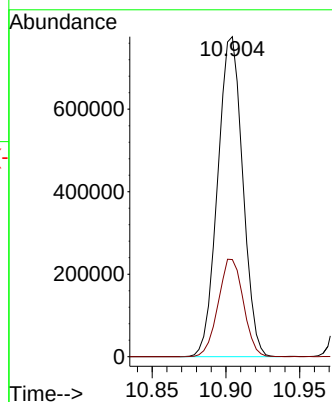
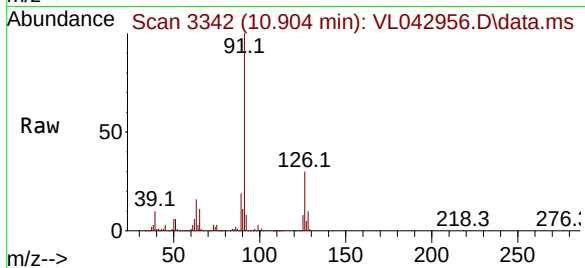
VSTDIC015

Tgt Ion: 91 Resp: 916456

Ion Ratio Lower Upper

91 100

126 30.6 12.3 49.3



#72

4-Ethyltoluene

Concen: 13.662 ppbv

RT: 11.128 min Scan# 3411

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Tgt Ion: 105 Resp: 1014567

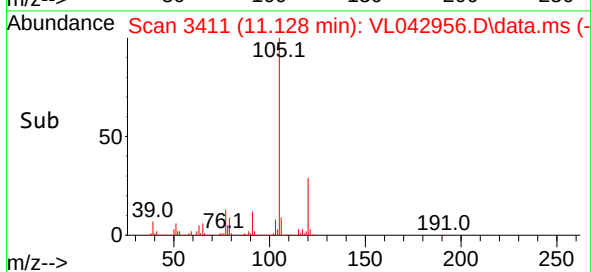
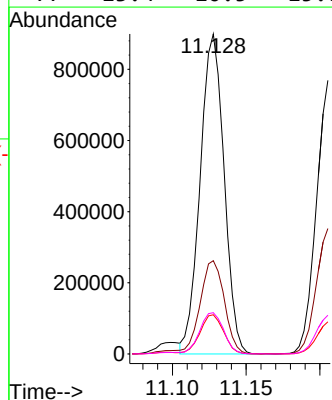
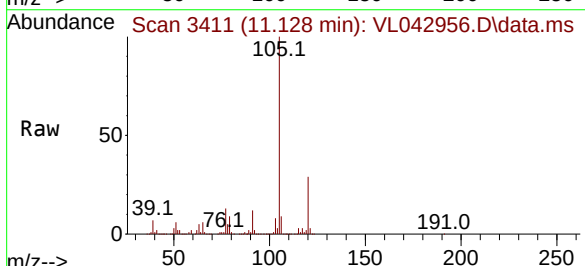
Ion Ratio Lower Upper

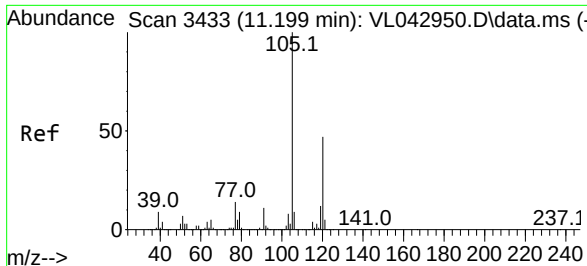
105 100

120 30.4 24.2 36.2

91 12.7 10.0 15.0

77 13.4 10.5 15.7

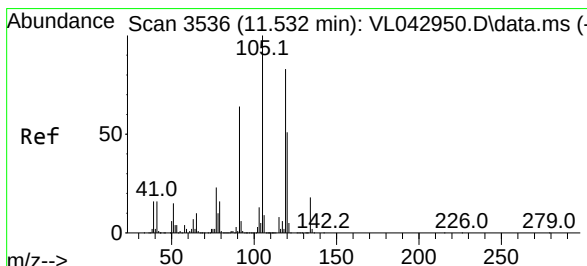
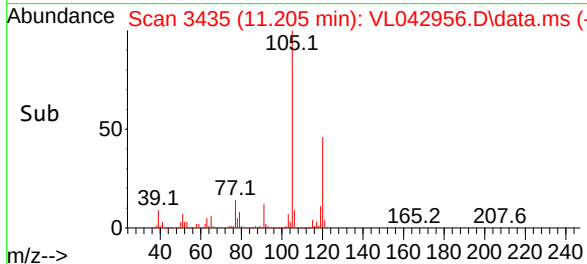
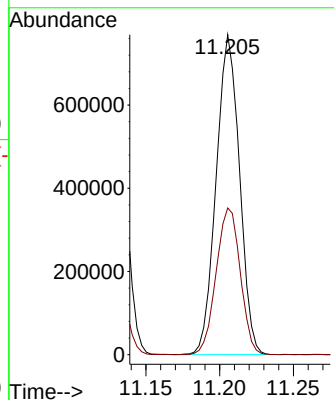
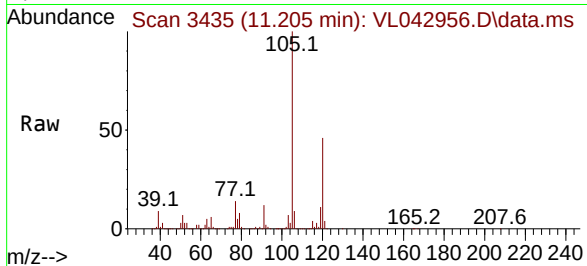




#73
 1,3,5-Trimethylbenzene
 Concen: 14.046 ppbv
 RT: 11.205 min Scan# 34
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

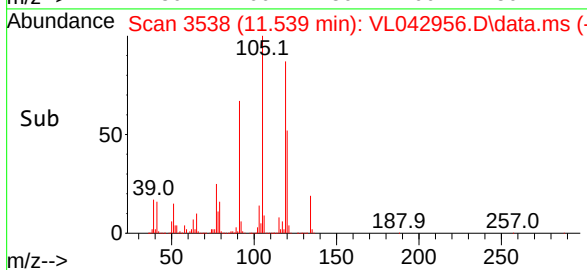
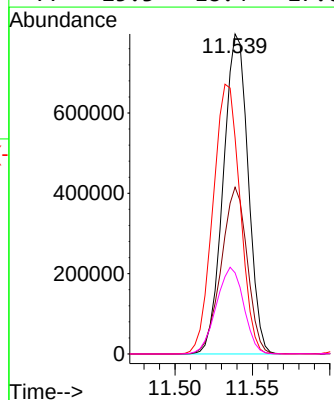
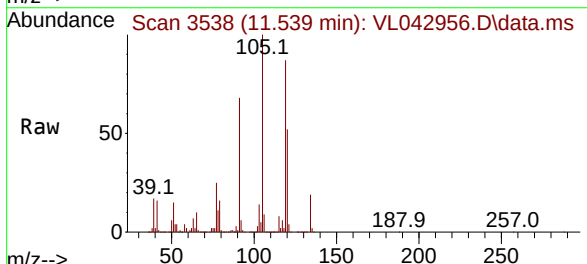
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

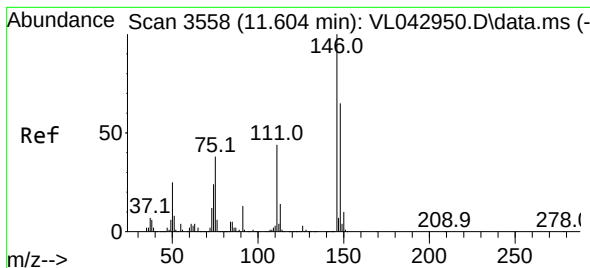
Tgt Ion:105 Resp: 845958
 Ion Ratio Lower Upper
 105 100
 120 45.8 38.0 57.0



#74
 1,2,4-Trimethylbenzene
 Concen: 13.372 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. 0.006 min
 Lab File: VL042956.D
 Acq: 22 Sep 2025 13:05

Tgt Ion:105 Resp: 889339
 Ion Ratio Lower Upper
 105 100
 120 52.1 40.9 61.3
 91 67.4 51.2 76.8
 77 25.3 18.4 27.6





#75

1,3-Dichlorobenzene

Concen: 13.785 ppbv

RT: 11.610 min Scan# 3558

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

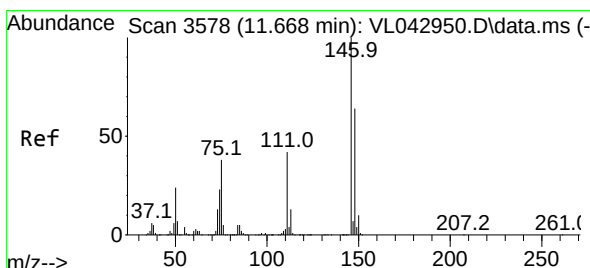
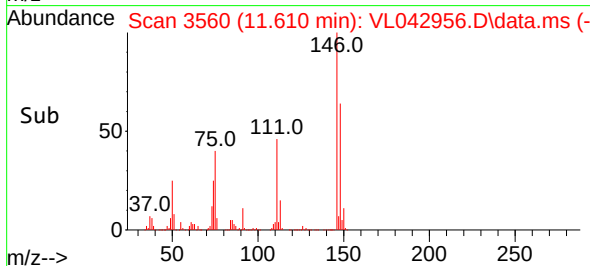
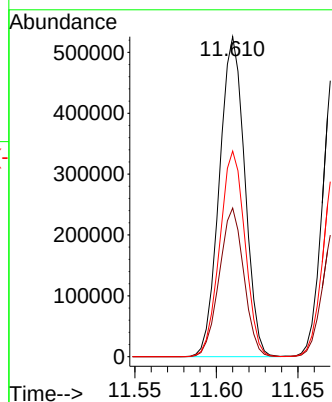
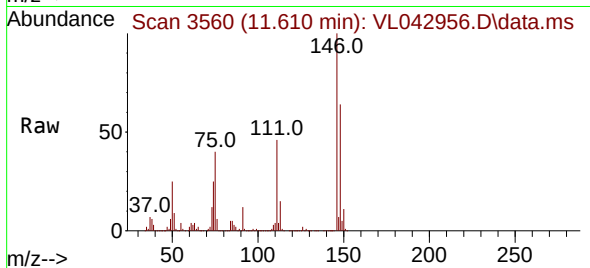
Tgt Ion:146 Resp: 568597

Ion Ratio Lower Upper

146 100

111 44.9 22.3 66.9

148 63.9 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 13.916 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

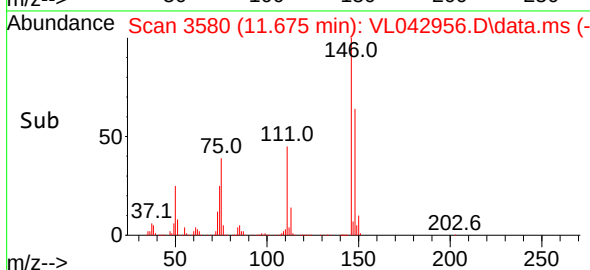
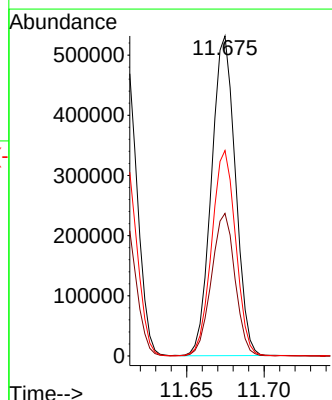
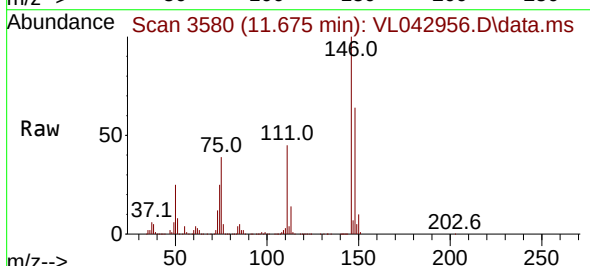
Tgt Ion:146 Resp: 570104

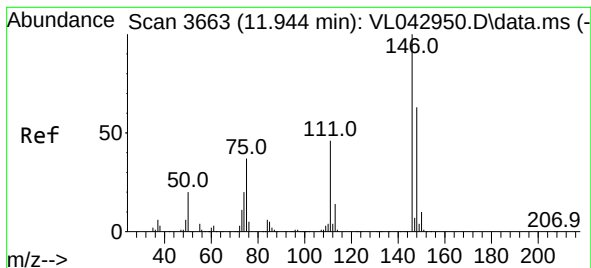
Ion Ratio Lower Upper

146 100

111 44.1 21.5 64.5

148 64.6 31.9 95.5





#77

1,2-Dichlorobenzene

Concen: 13.665 ppbv

RT: 11.950 min Scan# 3

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

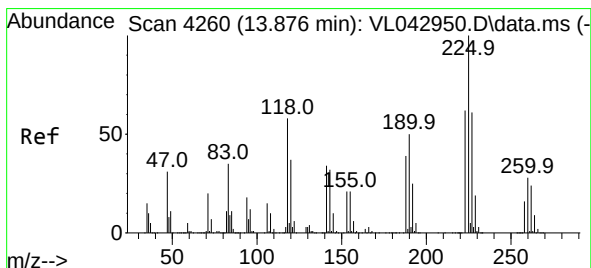
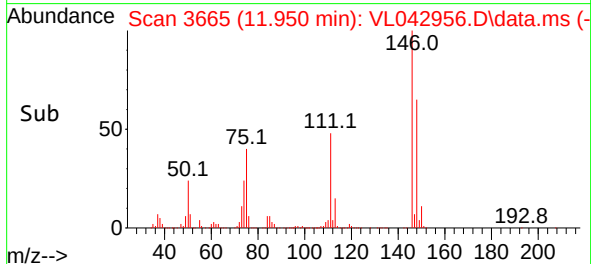
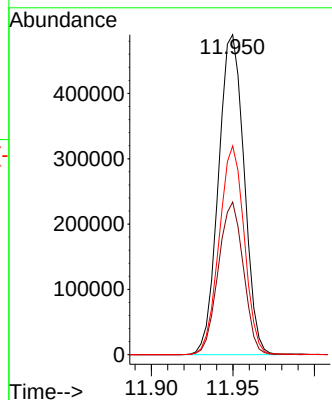
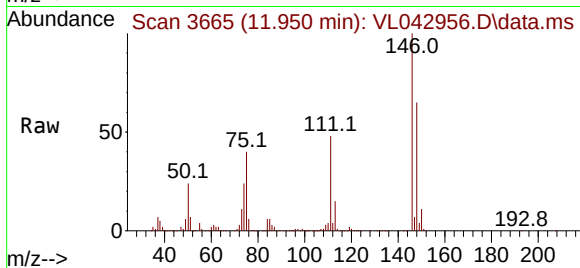
Tgt Ion:146 Resp: 536286

Ion Ratio Lower Upper

146 100

111 46.7 23.1 69.3

148 63.8 32.0 96.0



#78

Hexachloro-1,3-Butadiene

Concen: 12.296 ppbv

RT: 13.882 min Scan# 4262

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

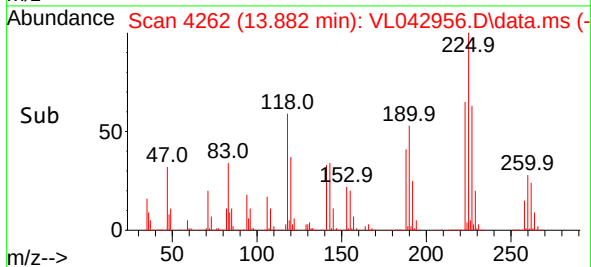
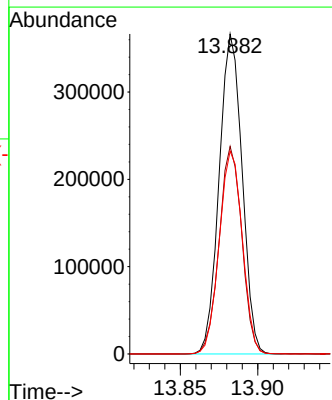
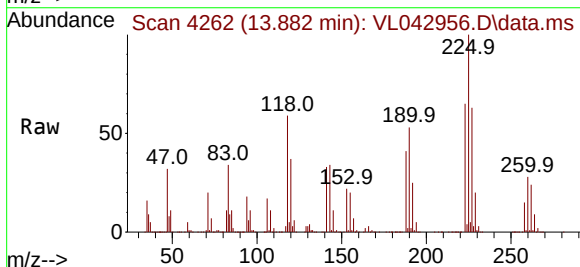
Tgt Ion:225 Resp: 377435

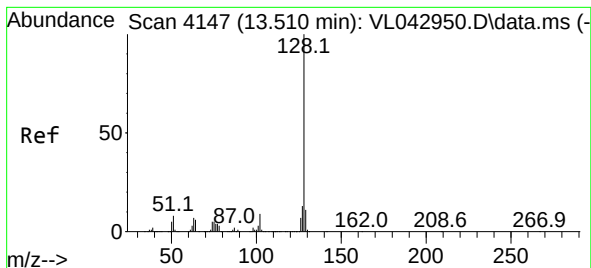
Ion Ratio Lower Upper

225 100

223 64.0 50.1 75.1

227 63.7 50.4 75.6





#79

Naphthalene

Concen: 15.645 ppbv

RT: 13.513 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

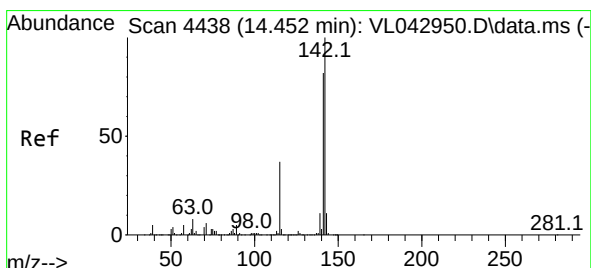
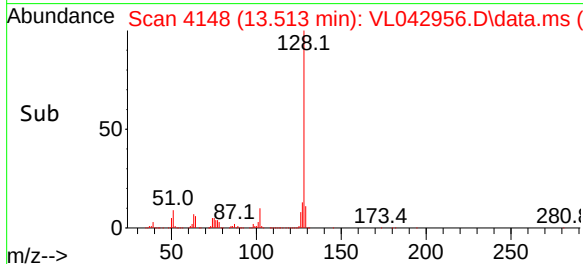
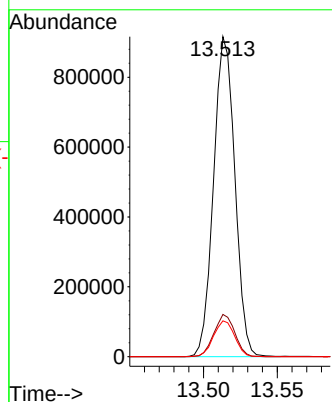
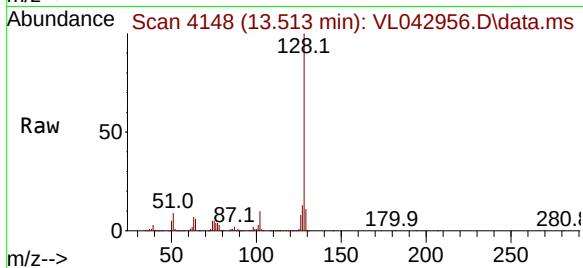
Tgt Ion:128 Resp: 920123

Ion Ratio Lower Upper

128 100

127 13.2 10.6 15.8

129 11.2 9.0 13.6



#80

Naphthalene,2-methyl-

Concen: 15.290 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. 0.006 min

Lab File: VL042956.D

Acq: 22 Sep 2025 13:05

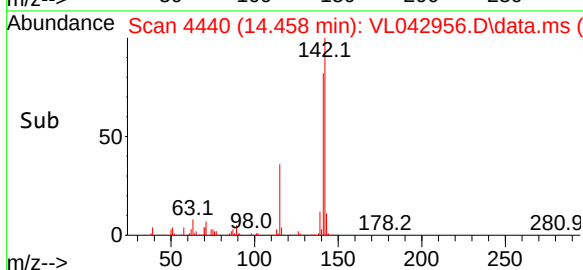
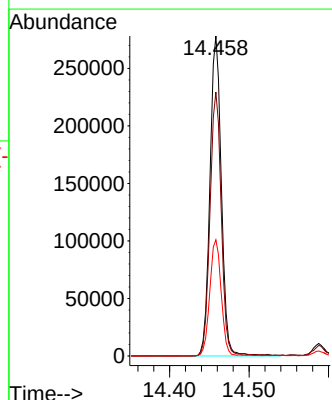
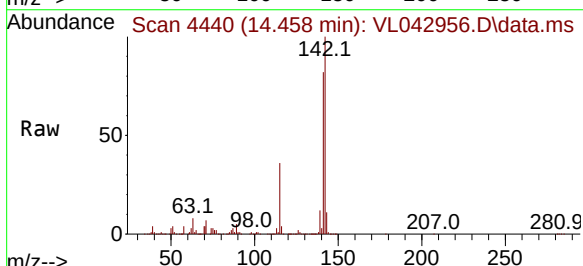
Tgt Ion:142 Resp: 277792

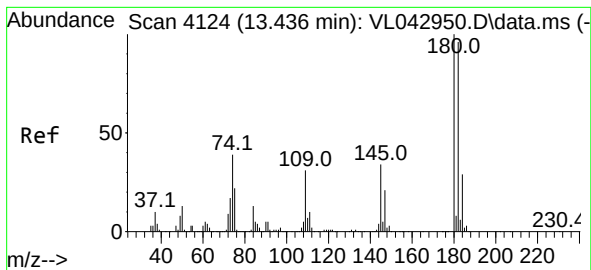
Ion Ratio Lower Upper

142 100

141 82.2 65.1 97.7

115 37.0 28.9 43.3





#81

1,2,4-Trichlorobenzene

Concen: 15.066 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042956.D

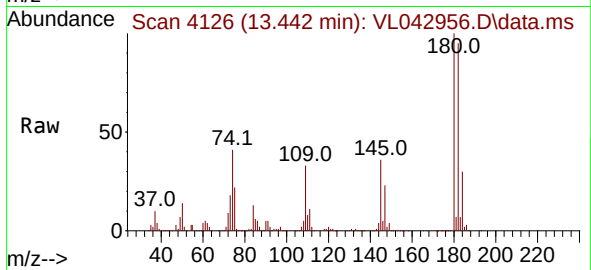
Acq: 22 Sep 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



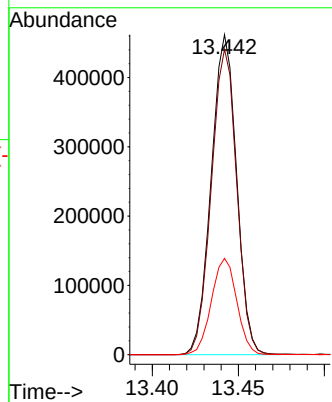
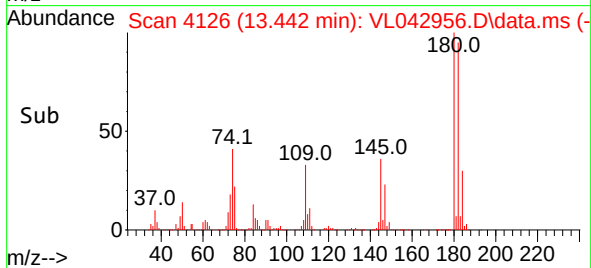
Tgt Ion:180 Resp: 473767

Ion Ratio Lower Upper

180 100

182 95.5 75.7 113.5

184 30.2 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL092225

Quant Time: Sep 23 02:49:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	159826	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	493072	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	450930	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	338071	10.043	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	197861	9.204	ppbv	98
3) Chlorodifluoromethane	1.476	51	246838	9.213	ppbv	99
4) Chloromethane	1.535	50	85932	8.831	ppbv	100
5) Vinyl Chloride	1.580	62	74819	8.506	ppbv	98
6) Bromomethane	1.667	94	26463	8.529	ppbv	91
7) Chloroethane	1.706	64	30377	8.894	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	164255	8.951	ppbv	98
9) Propene	1.483	41	105822	9.079	ppbv	95
10) Heptane	4.982	43	284333	9.141	ppbv	99
11) Trichlorofluoromethane	1.878	101	189800	9.157	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	151398	9.020	ppbv	99
13) Ethanol	1.722	45	6606	5.842	ppbv	90
14) Bromoethene	1.781	108	55748	8.785	ppbv	98
15) Acetone	1.836	43	157306	7.557	ppbv	98
16) 1,3-Butadiene	1.609	39	80854	8.234	ppbv	98
17) tert-Butyl alcohol	2.040	59	206466	9.043	ppbv	100
18) 1,1-Dichloroethene	2.036	96	69181	8.904	ppbv	94
19) Isopropyl Alcohol	1.884	45	108171	8.644	ppbv	100
20) Methylene Chloride	2.062	84	61743	9.945	ppbv	98
21) Allyl Chloride	2.098	41	132878	9.166	ppbv	100
22) trans-1,2-Dichloroethene	2.341	96	78085	8.845	ppbv	98
23) Vinyl Acetate	2.464	43	280339	9.427	ppbv	99
24) 1,1-Dichloroethane	2.409	63	155861	9.003	ppbv	100
25) Ethyl Acetate	2.833	43	486993	9.256	ppbv	99
26) Hexane	2.826	57	216458	9.026	ppbv	99
27) Carbon Disulfide	2.150	76	196191	9.121	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	121564	9.752	ppbv	95
29) Chloroform	2.849	83	300507	9.583	ppbv	100
30) Cyclohexane	3.855	84	186186	9.286	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	213362	9.497	ppbv	99
32) 1,1,1-Trichloroethane	3.370	97	307237	9.071	ppbv	100
34) 2-Butanone	2.558	43	313801	9.081	ppbv	100
35) Carbon Tetrachloride	3.762	117	304293	9.479	ppbv	97
36) Benzene	3.655	78	435981	9.416	ppbv	98
37) 1,2-Dichloroethane	3.218	62	233305	9.581	ppbv	99
38) Trichloroethene	4.548	130	205431	8.927	ppbv	95
39) 1,2-Dichloropropane	4.312	63	160275	9.482	ppbv	95
40) 1,4-Dioxane	4.577	88	69659	8.863	ppbv #	95
41) Tetrahydrofuran	3.053	42	184258	9.277	ppbv	100
42) Bromodichloromethane	4.490	83	329680	9.721	ppbv	99
43) Methyl Methacrylate	4.878	69	172867	9.125	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	738876	9.239	ppbv	99
45) t-1,3-Dichloropropene	6.416	75	188332	9.321	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

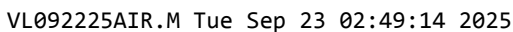
Instrument :
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 ClientSampleId :
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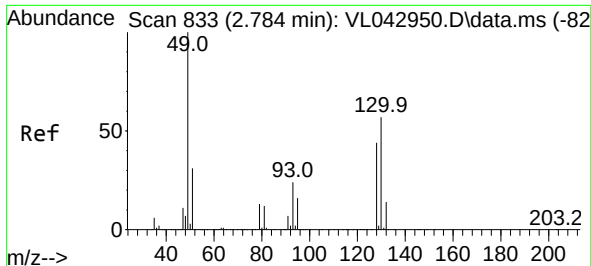
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	244367	9.490	ppbv	99
47) 1,1,2-Trichloroethane	6.577	97	165721	9.279	ppbv	97
48) Dibromochloromethane	7.387	129	278090	9.732	ppbv	99
49) Bromoform	9.484	173	238337	9.589	ppbv	99
50) 4-Methyl-2-Pentanone	5.746	43	435845	9.411	ppbv	99
51) 2-Hexanone	7.435	43	352962	9.561	ppbv	100
52) Tetrachloroethene	8.225	164	155469	8.678	ppbv	98
53) Toluene	6.933	91	509968	9.306	ppbv	99
54) 1,2-Dibromoethane	7.652	107	237604	9.452	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.924	131	205811	9.536	ppbv	99
57) Chlorobenzene	8.924	112	379110	9.209	ppbv	99
58) Ethyl Benzene	9.354	91	698086	9.428	ppbv	100
59) m/p-Xylene	9.532	91	568845	9.744	ppbv #	100
60) o-Xylene	9.966	91	538861	9.236	ppbv	99
61) Styrene	9.872	104	264257	9.575	ppbv	99
62) Isopropylbenzene	10.539	105	802723	9.230	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	272416	8.883	ppbv	100
64) n-propylbenzene	10.989	120	214374	9.433	ppbv	99
65) tert-Butylbenzene	11.533	119	711319	9.196	ppbv	99
66) Benzyl Chloride	11.617	91	71896	8.858	ppbv	99
67) sec-Butylbenzene	11.769	105	995407	9.235	ppbv	99
69) p-Isopropyltoluene	11.928	119	848196	9.316	ppbv	99
70) n-Butylbenzene	12.280	91	834882	9.392	ppbv	100
71) 2-Chlorotoluene	10.902	91	611697	9.315	ppbv	100
72) 4-Ethyltoluene	11.125	105	686229	9.391	ppbv	100
73) 1,3,5-Trimethylbenzene	11.203	105	567874	9.582	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	607159	9.277	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	380822	9.382	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	380109	9.429	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	359995	9.322	ppbv	100
78) Hexachloro-1,3-Butadiene	13.883	225	249142	8.248	ppbv	100
79) Naphthalene	13.514	128	590759	10.208	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	173023	9.678	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	304647	9.845	ppbv	98

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

Quant Time: Sep 23 02:49:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

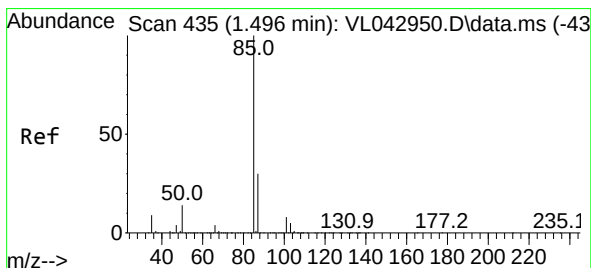
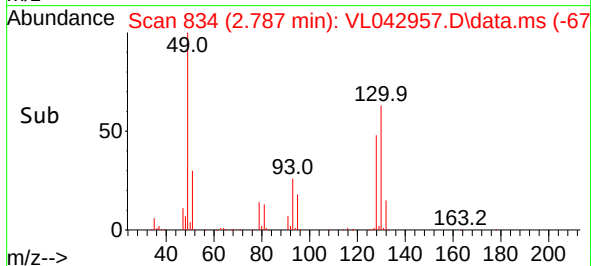
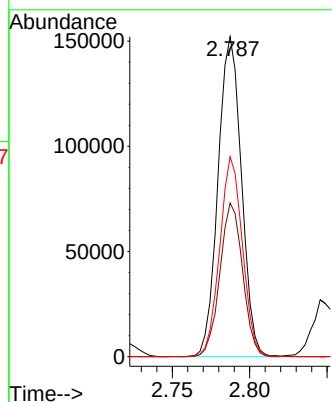
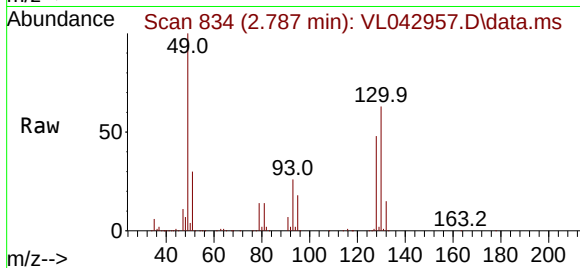




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

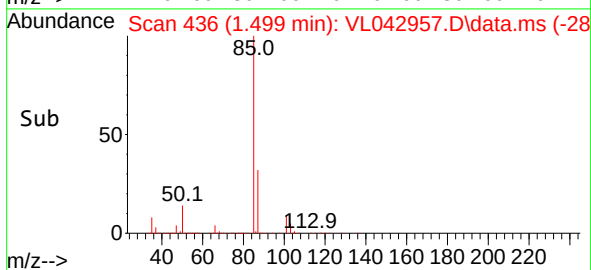
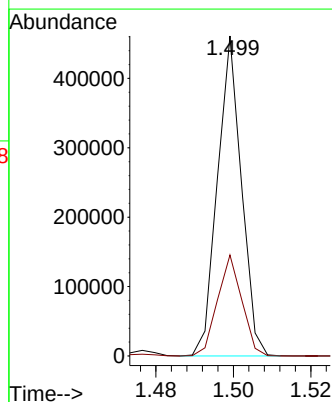
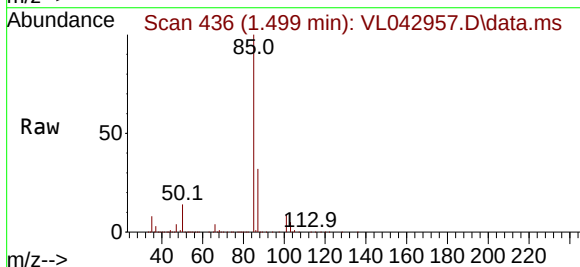
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

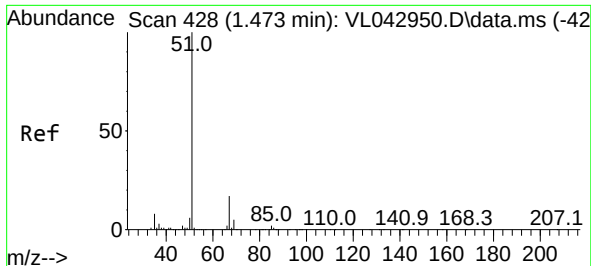
Tgt Ion: 49 Resp: 159826
Ion Ratio Lower Upper
49 100
128 46.7 22.9 68.8
130 60.6 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 9.204 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 85 Resp: 197861
Ion Ratio Lower Upper
85 100
87 31.6 24.3 36.5

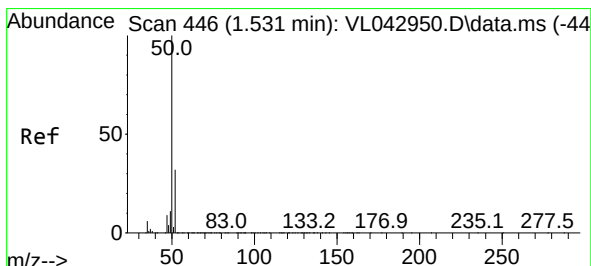
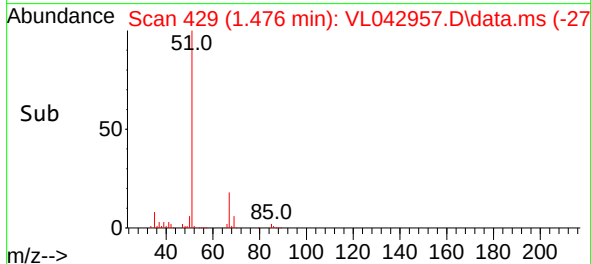
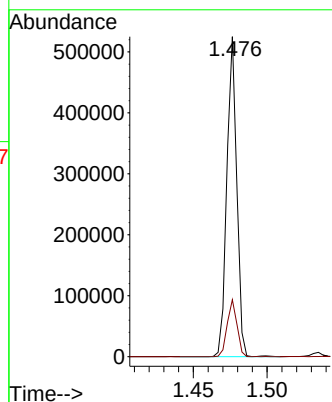
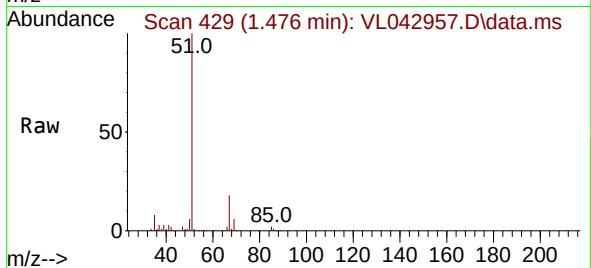




#3
Chlorodifluoromethane
Concen: 9.213 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

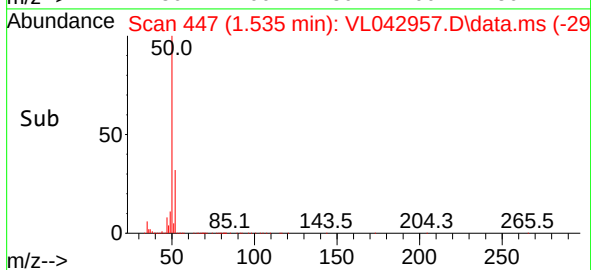
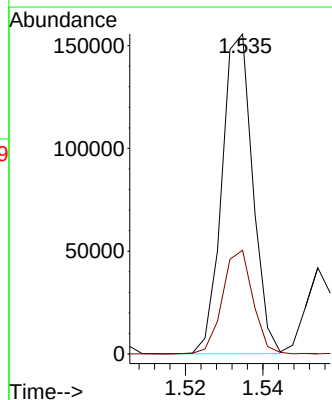
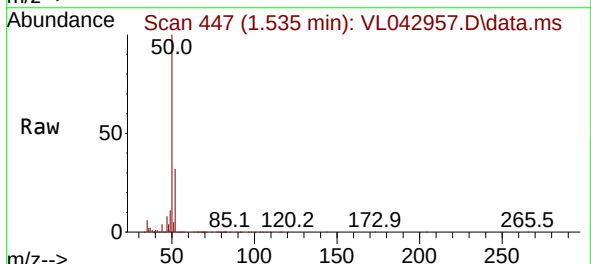
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ClientSampleId :
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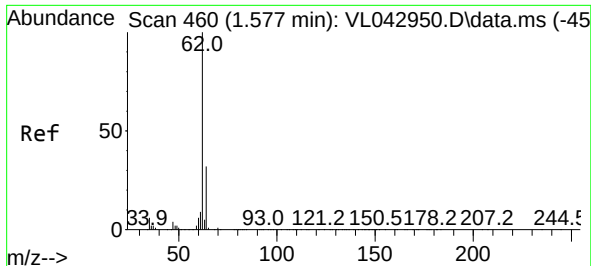
Tgt Ion: 51 Resp: 246838
Ion Ratio Lower Upper
51 100
67 17.6 13.8 20.8



#4
Chloromethane
Concen: 8.831 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 50 Resp: 85932
Ion Ratio Lower Upper
50 100
52 32.4 25.9 38.9

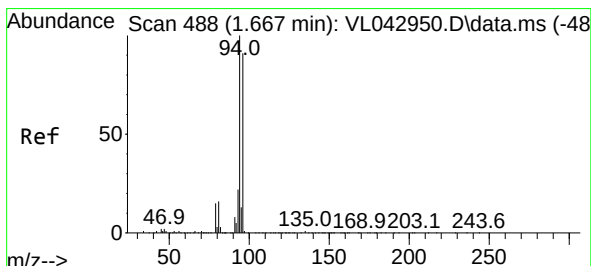
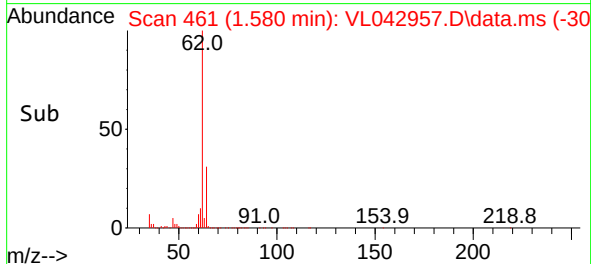
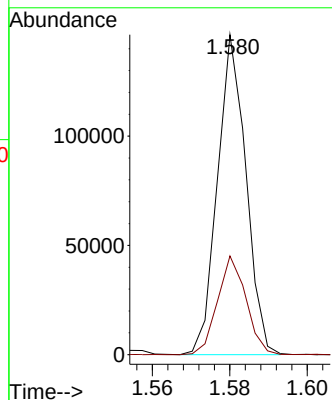
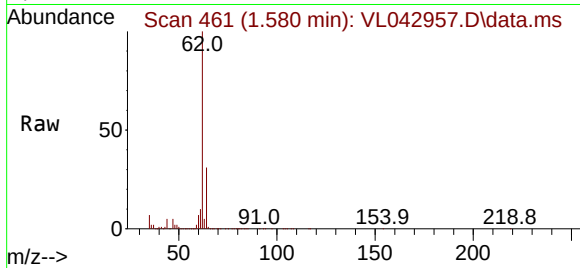




#5
 Vinyl Chloride
 Concen: 8.506 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

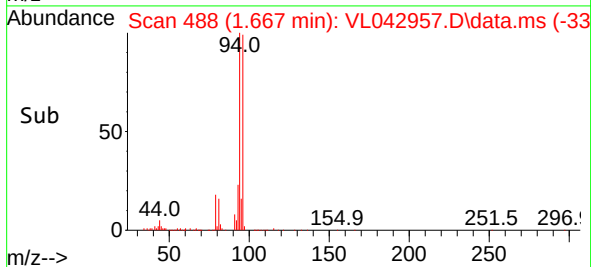
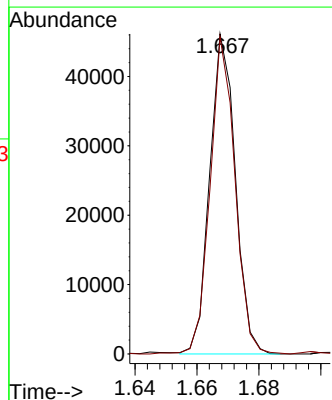
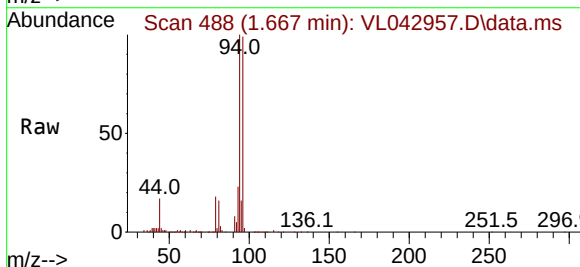
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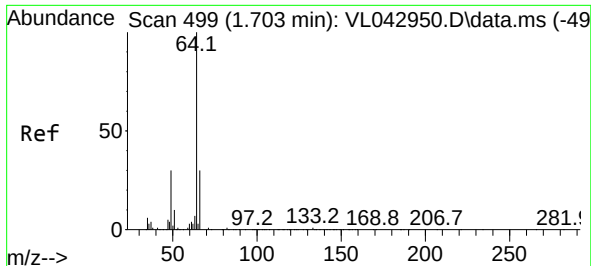
Tgt Ion: 62 Resp: 74819
 Ion Ratio Lower Upper
 62 100
 64 30.9 25.4 38.2



#6
 Bromomethane
 Concen: 8.529 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

Tgt Ion: 94 Resp: 26463
 Ion Ratio Lower Upper
 94 100
 96 98.8 72.6 108.8

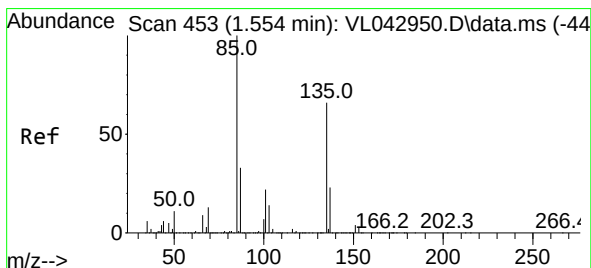
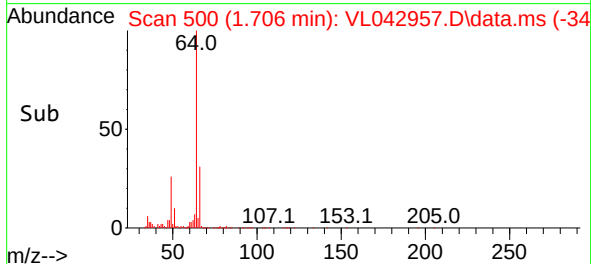
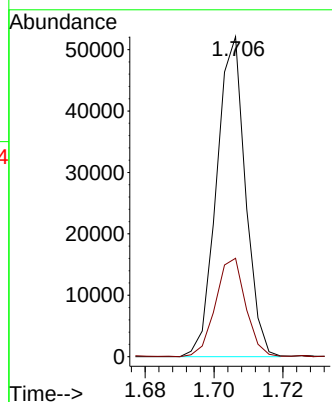
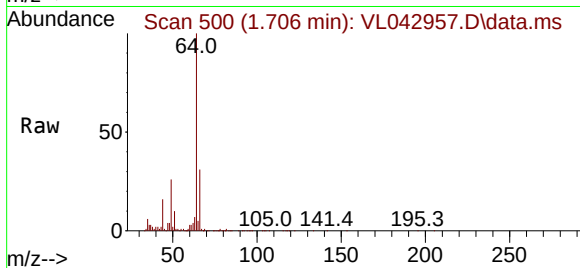




#7
Chloroethane
Concen: 8.894 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

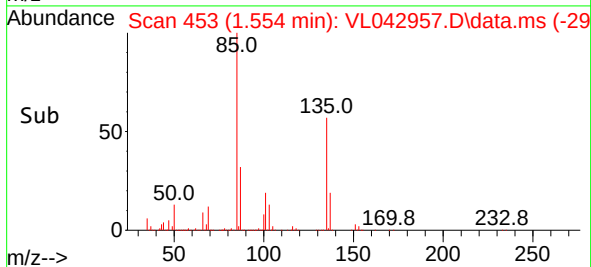
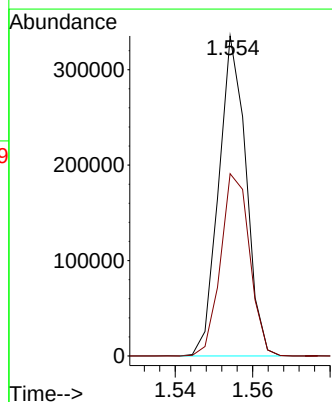
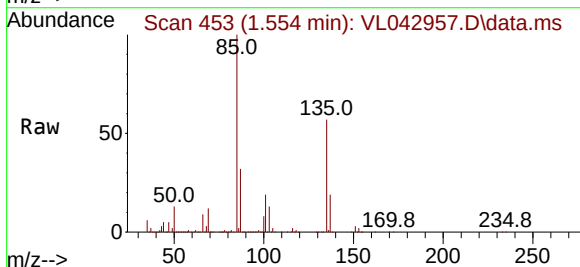
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

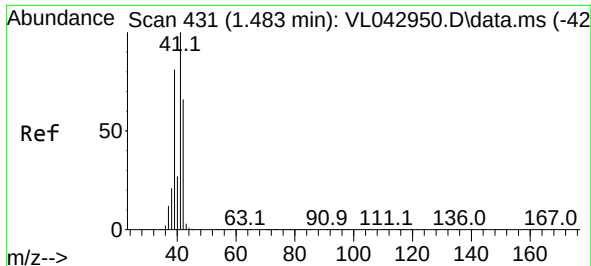
Tgt Ion: 64 Resp: 30377
Ion Ratio Lower Upper
64 100
66 30.7 24.6 36.8



#8
Dichlorotetrafluoroethane
Concen: 8.951 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 85 Resp: 164255
Ion Ratio Lower Upper
85 100
135 60.7 49.7 74.5





#9

Propene

Concen: 9.079 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

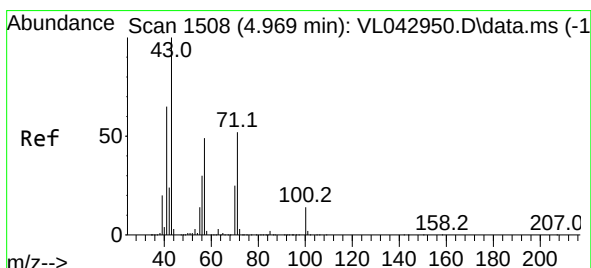
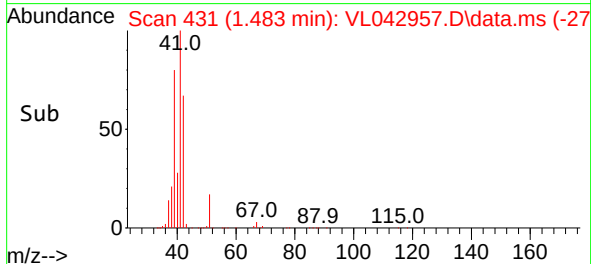
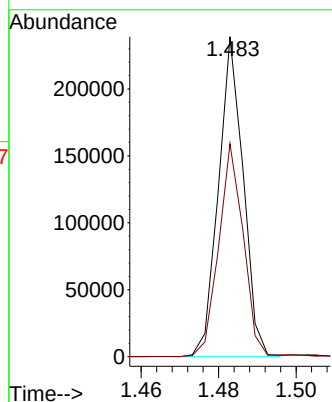
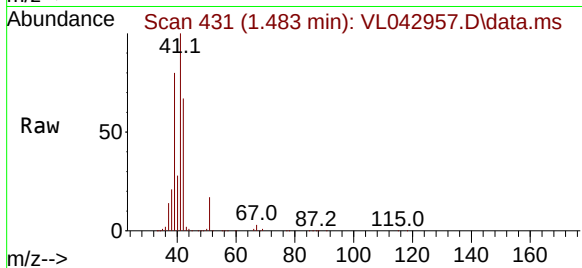
ICVVL092225

Tgt Ion: 41 Resp: 105822

Ion Ratio Lower Upper

41 100

42 67.4 57.4 86.2



#10

Heptane

Concen: 9.141 ppbv

RT: 4.982 min Scan# 1512

Delta R.T. 0.013 min

Lab File: VL042957.D

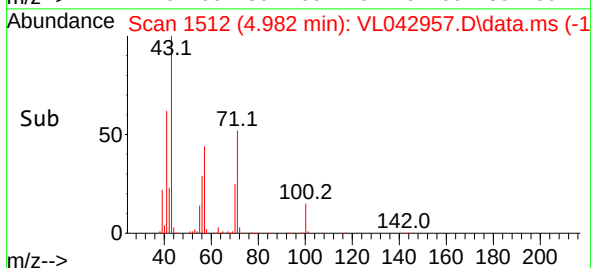
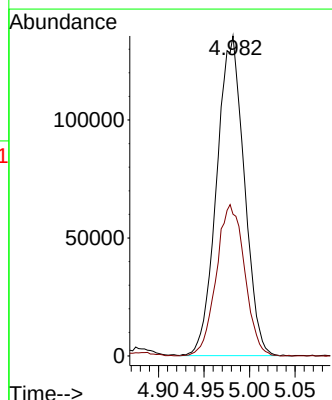
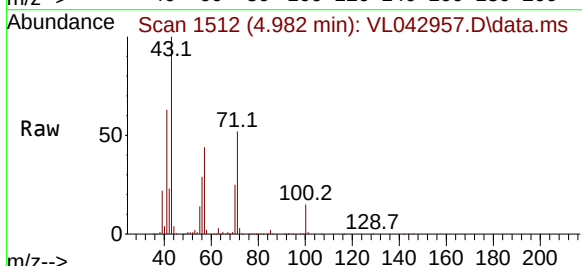
Acq: 22 Sep 2025 14:15

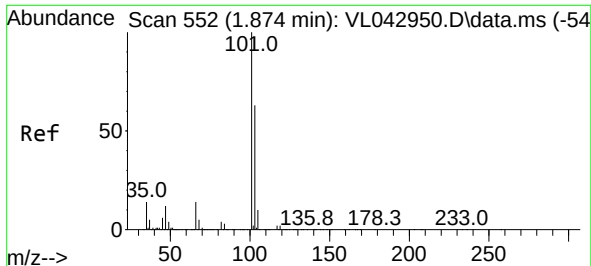
Tgt Ion: 43 Resp: 284333

Ion Ratio Lower Upper

43 100

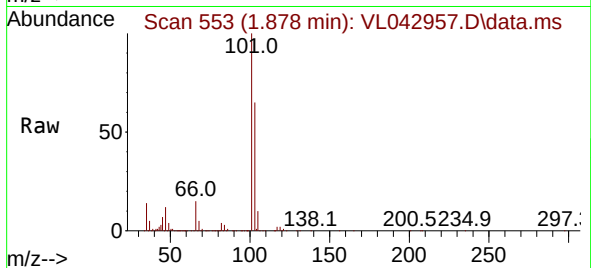
57 48.7 38.6 57.8



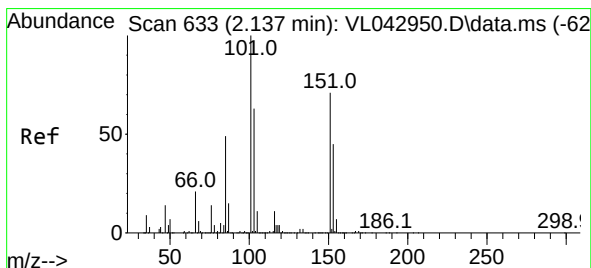
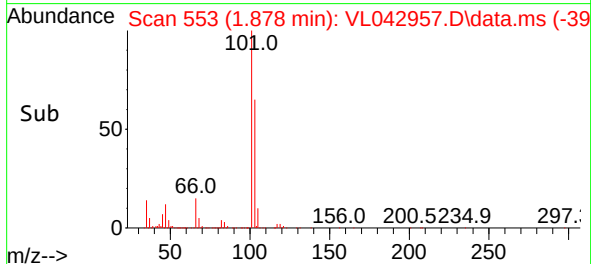
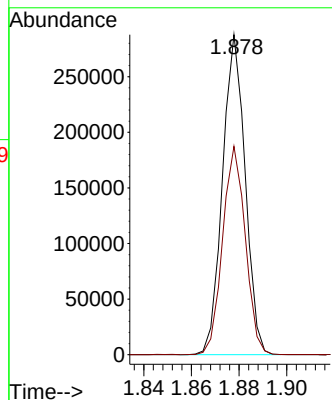


#11
Trichlorofluoromethane
Concen: 9.157 ppbv
RT: 1.878 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

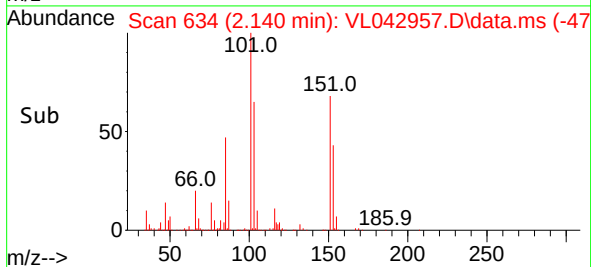
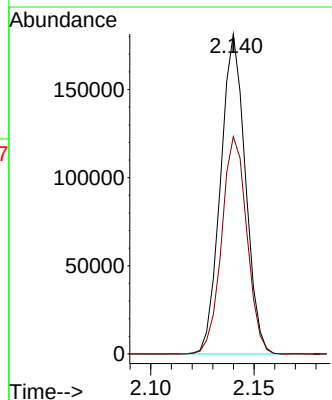
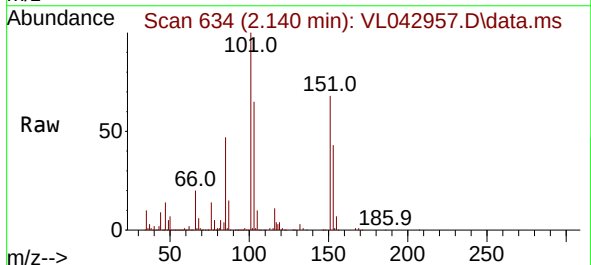


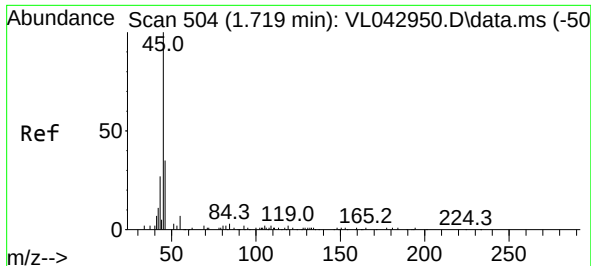
Tgt Ion:101 Resp: 189800
Ion Ratio Lower Upper
101 100
103 65.1 50.1 75.1



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.020 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion:101 Resp: 151398
Ion Ratio Lower Upper
101 100
151 69.1 55.7 83.5

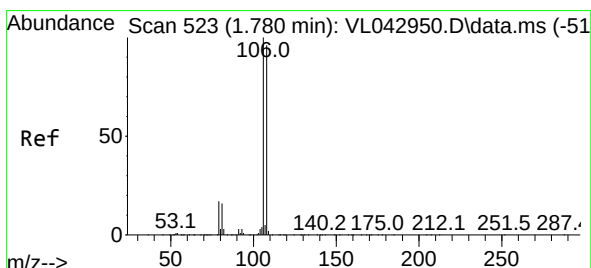
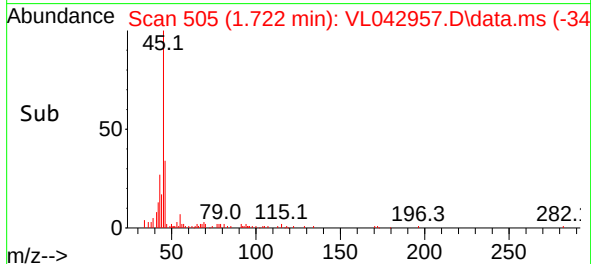
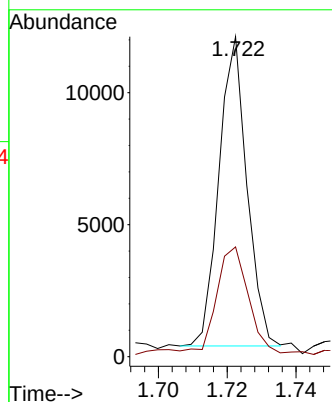
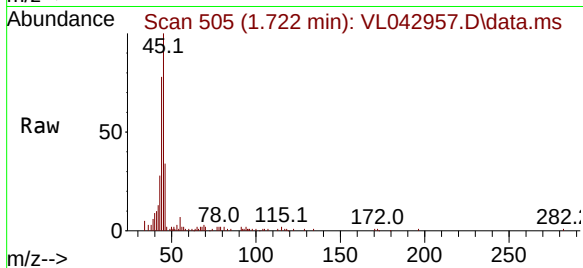




#13
Ethanol
Concen: 5.842 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

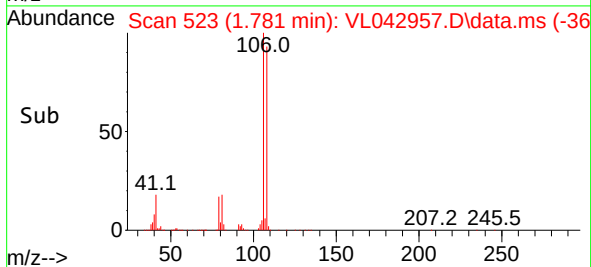
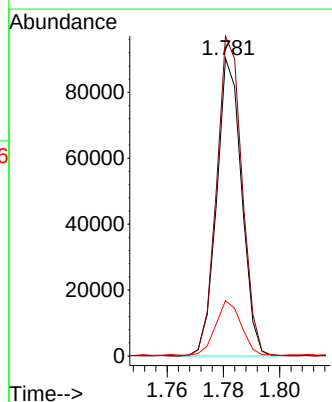
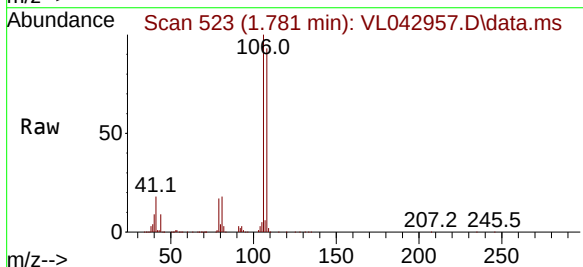
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

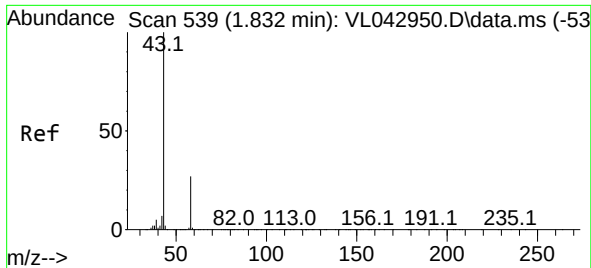
Tgt Ion: 45 Resp: 6606
Ion Ratio Lower Upper
45 100
46 46.7 16.2 64.6



#14
Bromoethene
Concen: 8.785 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 108 Resp: 55748
Ion Ratio Lower Upper
108 100
106 109.3 86.0 129.0
79 19.7 14.2 21.2

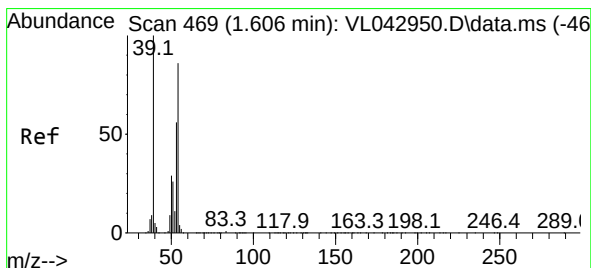
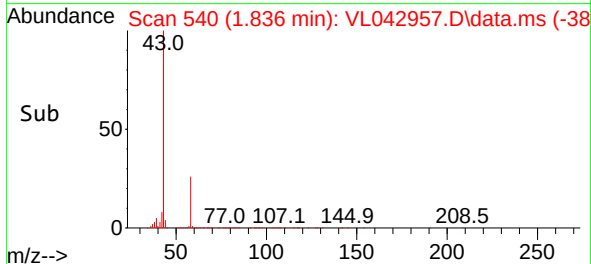
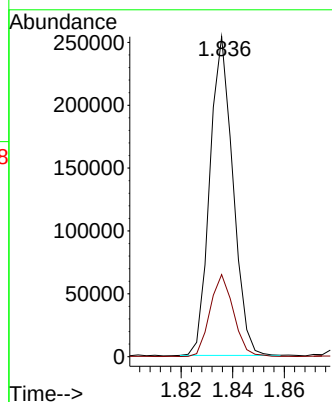
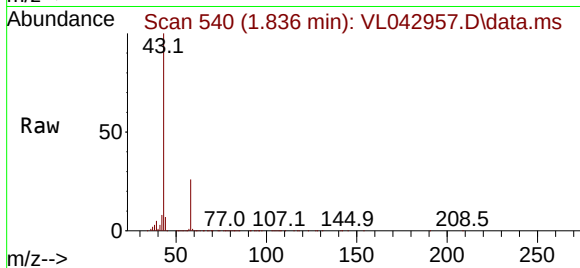




#15
Acetone
Concen: 7.557 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

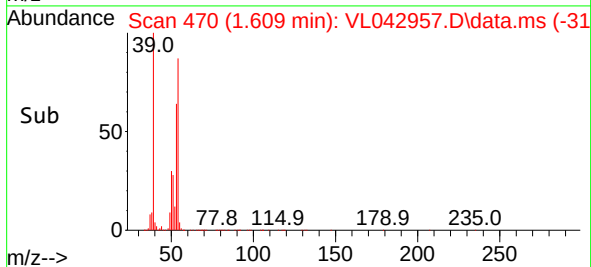
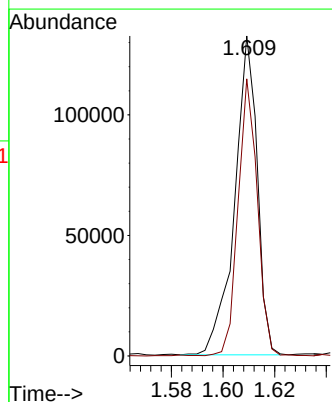
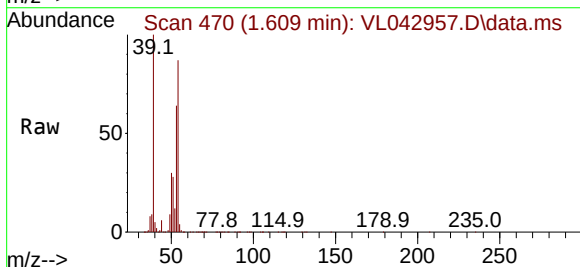
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

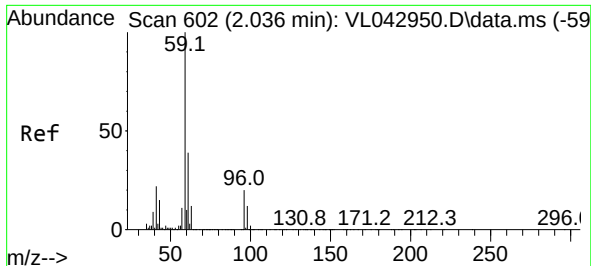
Tgt Ion: 43 Resp: 157306
Ion Ratio Lower Upper
43 100
58 26.7 22.3 33.5



#16
1,3-Butadiene
Concen: 8.234 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 39 Resp: 80854
Ion Ratio Lower Upper
39 100
54 74.7 60.8 91.2





#17

tert-Butyl alcohol

Concen: 9.043 ppbv

RT: 2.040 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_1

ClientSampleId :

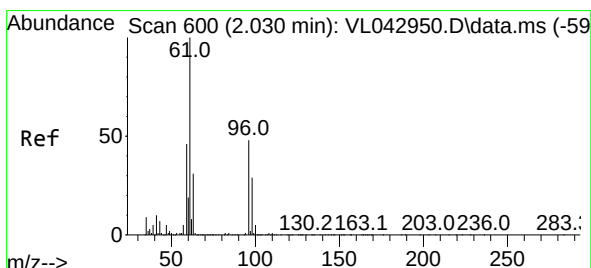
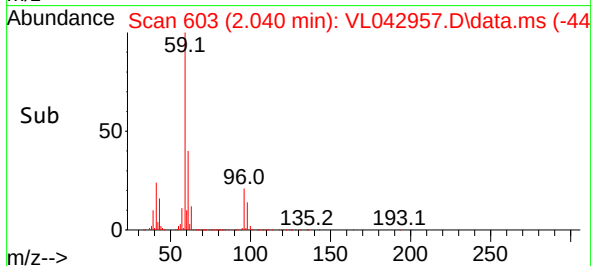
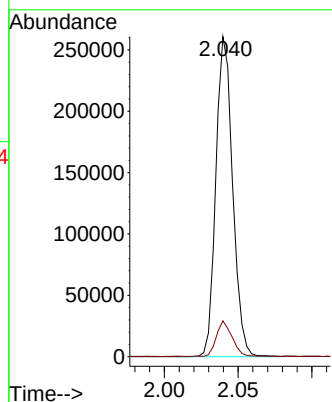
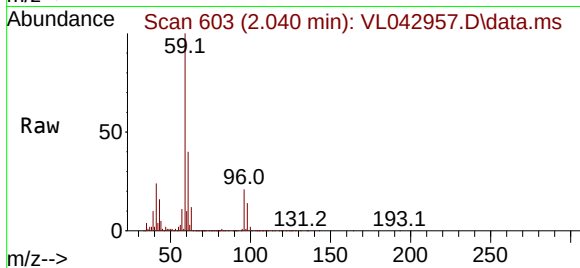
ICVVL092225

Tgt Ion: 59 Resp: 206466

Ion Ratio Lower Upper

59 100

57 10.6 8.6 12.8



#18

1,1-Dichloroethene

Concen: 8.904 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.007 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

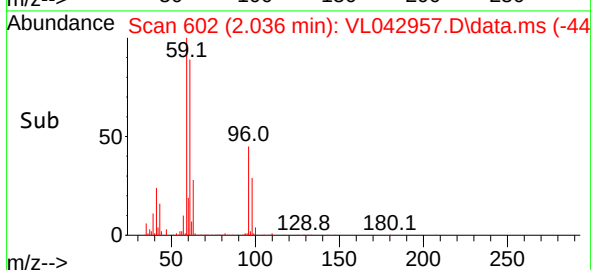
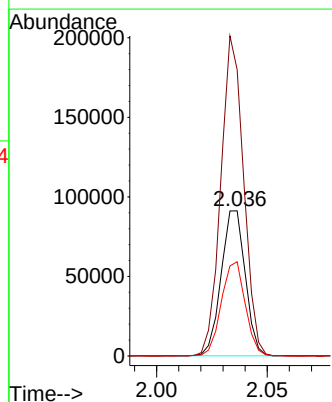
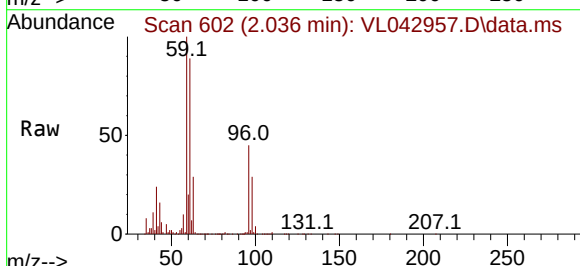
Tgt Ion: 96 Resp: 69181

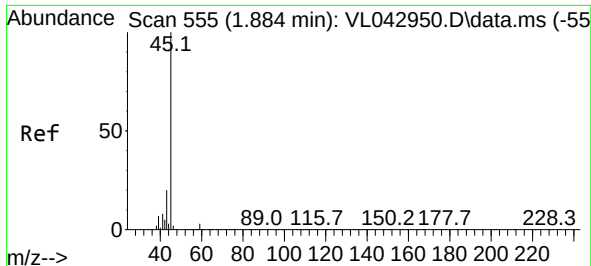
Ion Ratio Lower Upper

96 100

61 197.4 166.2 249.4

98 64.8 48.6 73.0

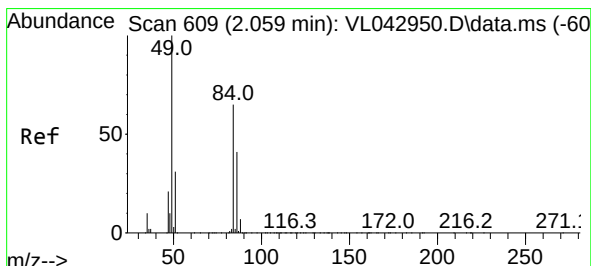
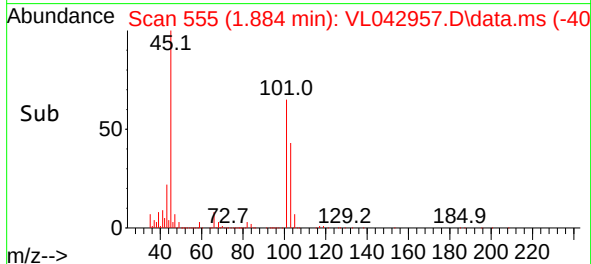
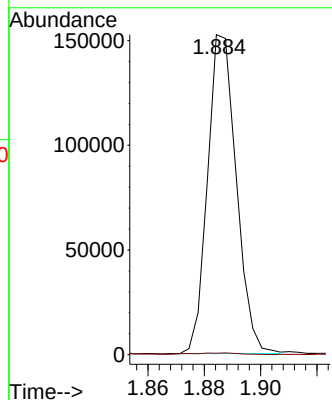
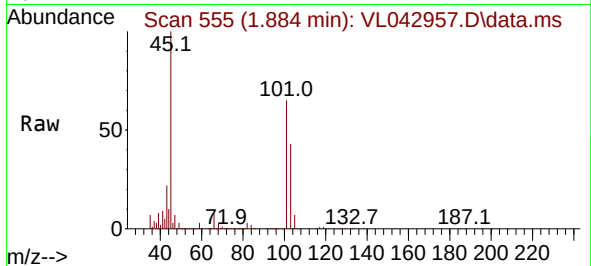




#19
Isopropyl Alcohol
Concen: 8.644 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

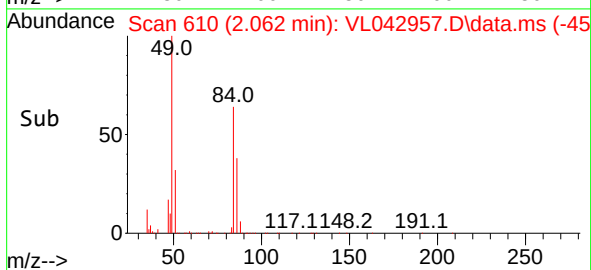
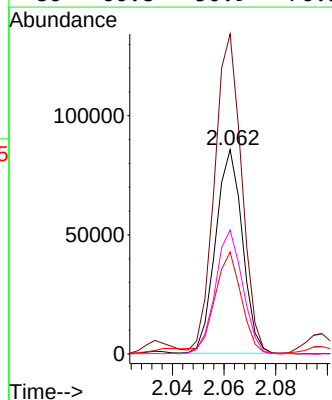
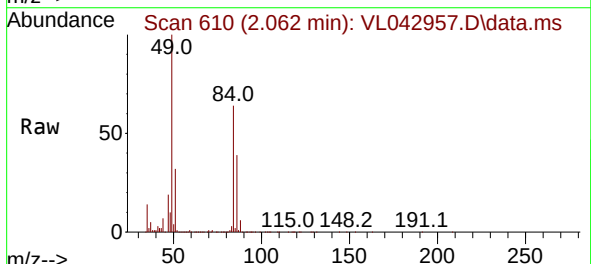
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

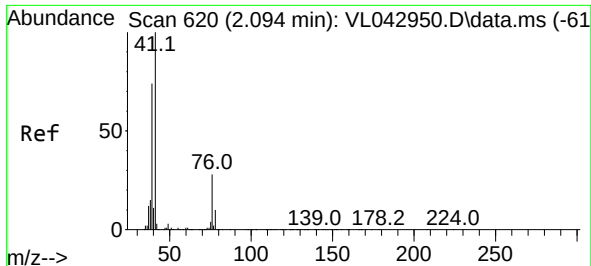
Tgt Ion: 45 Resp: 108171
Ion Ratio Lower Upper
45 100
58 38.8 31.0 46.6



#20
Methylene Chloride
Concen: 9.945 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 84 Resp: 61743
Ion Ratio Lower Upper
84 100
49 156.9 124.1 186.1
51 49.6 39.8 59.8
86 60.8 50.9 76.3





#21

Allyl Chloride

Concen: 9.166 ppbv

RT: 2.098 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225

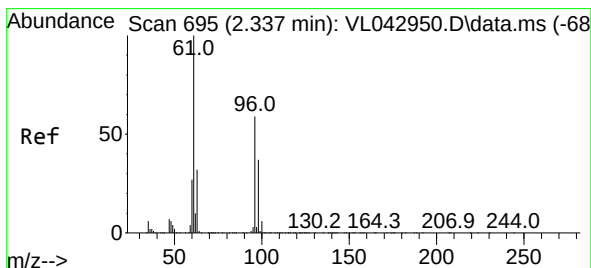
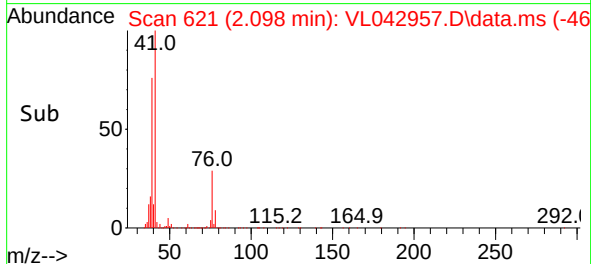
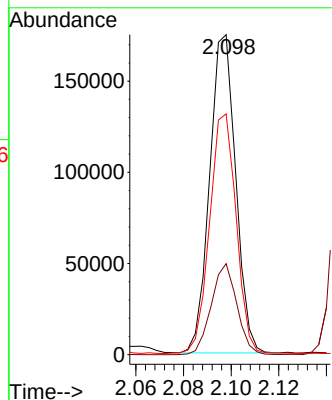
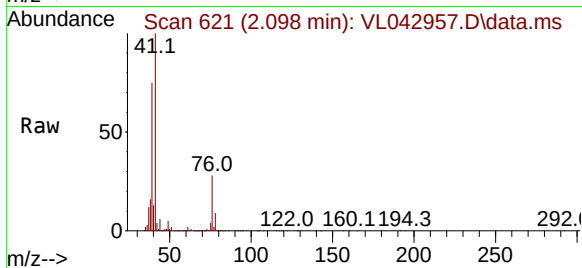
Tgt Ion: 41 Resp: 132878

Ion Ratio Lower Upper

41 100

76 28.0 22.3 33.5

39 76.4 61.3 91.9



#22

trans-1,2-Dichloroethene

Concen: 8.845 ppbv

RT: 2.341 min Scan# 696

Delta R.T. 0.003 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

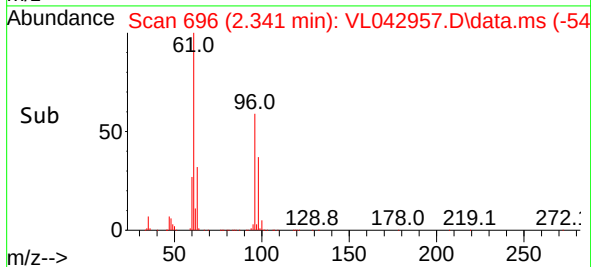
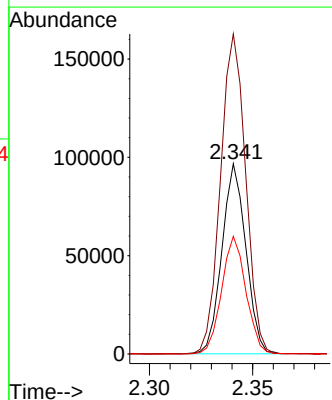
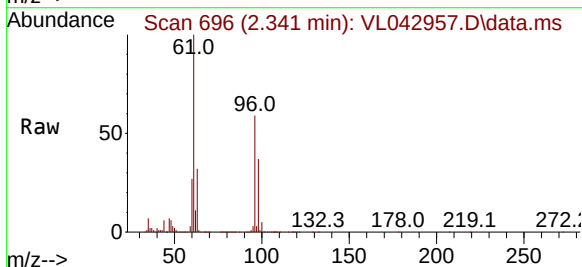
Tgt Ion: 96 Resp: 78085

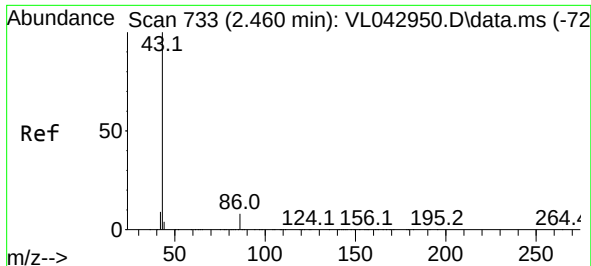
Ion Ratio Lower Upper

96 100

61 168.1 136.5 204.7

98 61.9 50.6 76.0



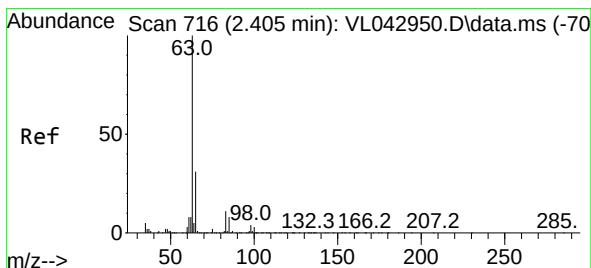
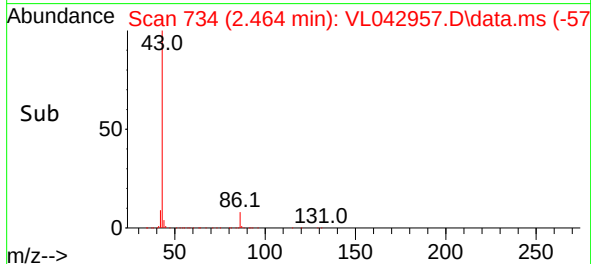
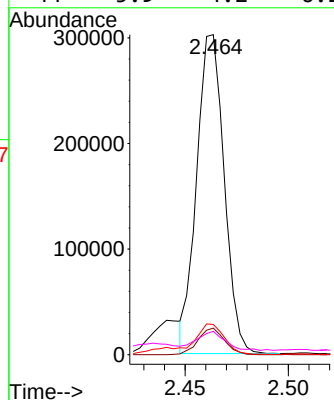
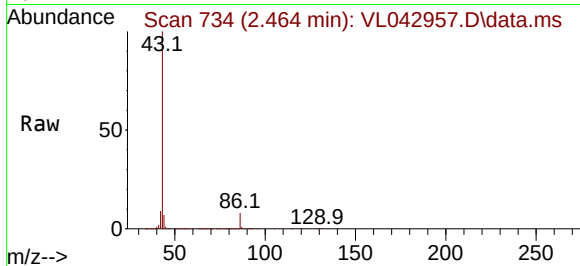


#23
 Vinyl Acetate
 Concen: 9.427 ppbv
 RT: 2.464 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL092225

Tgt Ion: 43 Resp: 280339

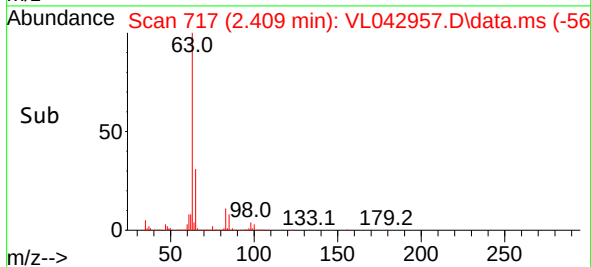
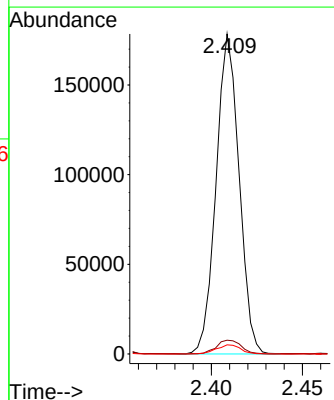
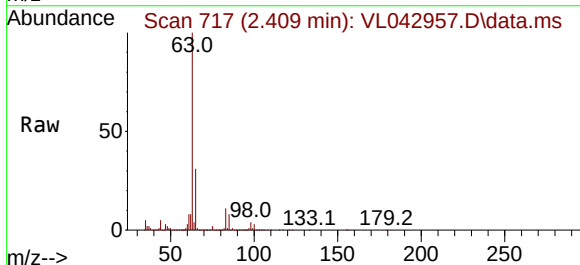
Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.2	9.2
42	9.4	7.4	11.0
44	5.9	4.2	6.2

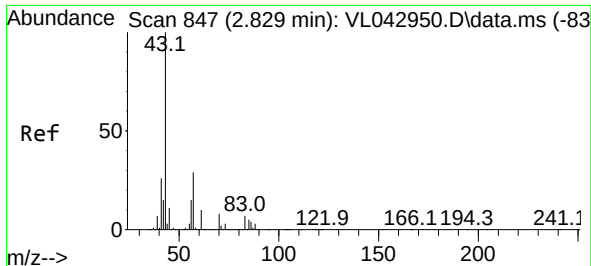


#24
 1,1-Dichloroethane
 Concen: 9.003 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

Tgt Ion: 63 Resp: 155861

Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.2	6.6
100	2.8	1.4	4.0

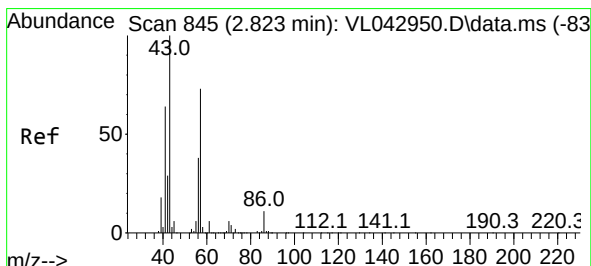
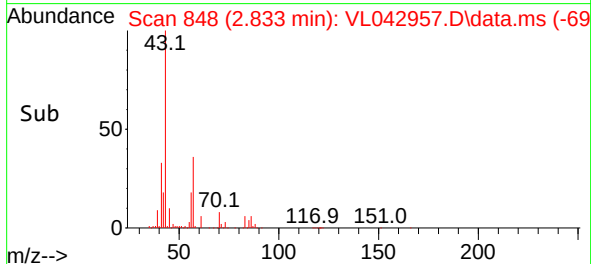
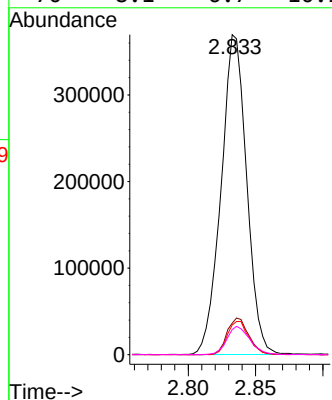
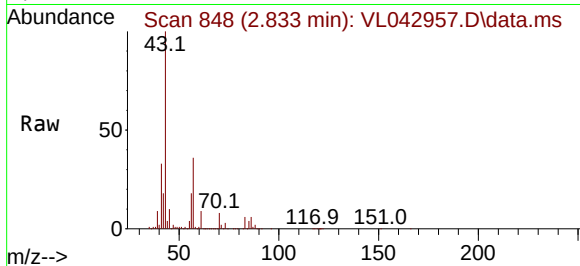




#25
Ethyl Acetate
Concen: 9.256 ppbv
RT: 2.833 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

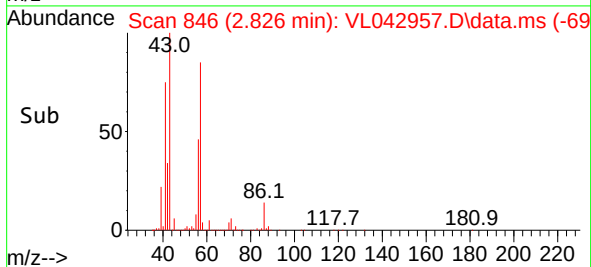
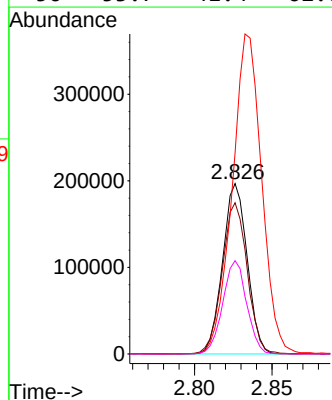
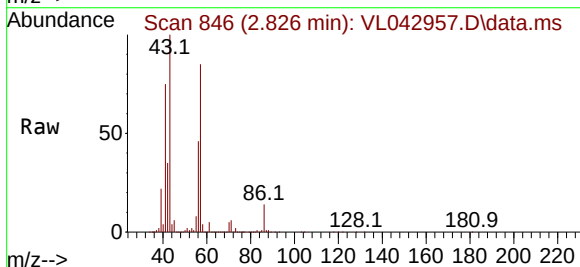
Instrument :
MSVOA_1
ClientSampleId :
ICVVL092225

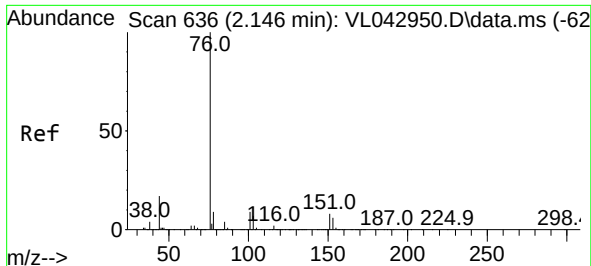
Tgt Ion: 43 Resp: 486993
Ion Ratio Lower Upper
43 100
45 9.8 7.7 11.5
61 8.9 7.1 10.7
70 8.1 6.7 10.1



#26
Hexane
Concen: 9.026 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 57 Resp: 216458
Ion Ratio Lower Upper
57 100
41 90.9 71.7 107.5
43 226.2 180.8 271.2
56 53.7 41.4 62.0

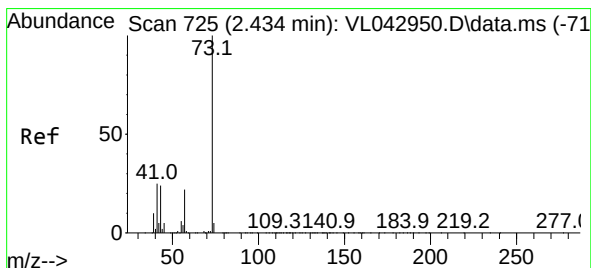
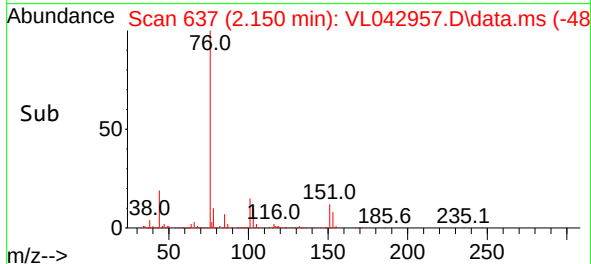
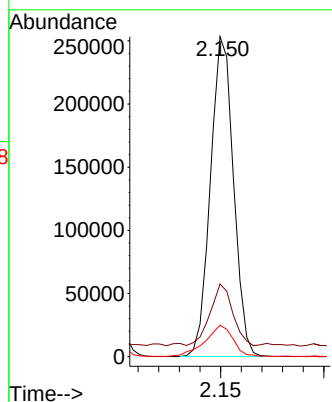
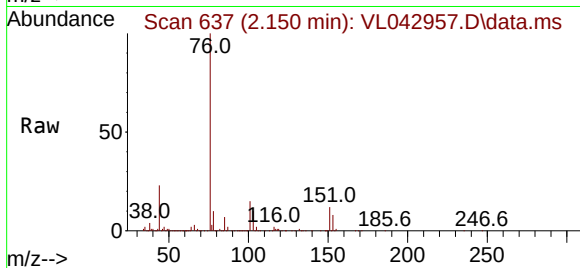




#27
Carbon Disulfide
Concen: 9.121 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

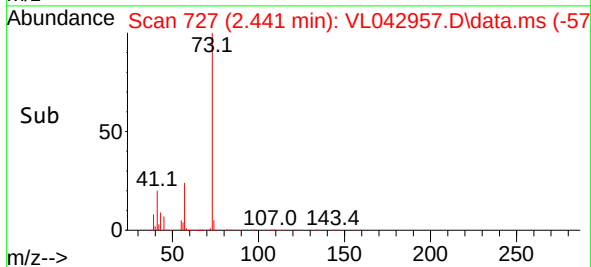
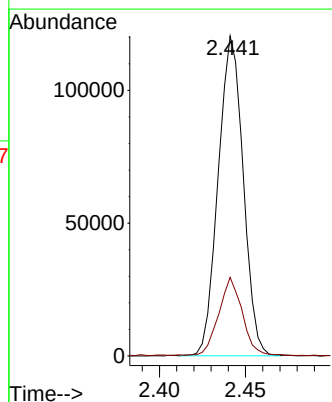
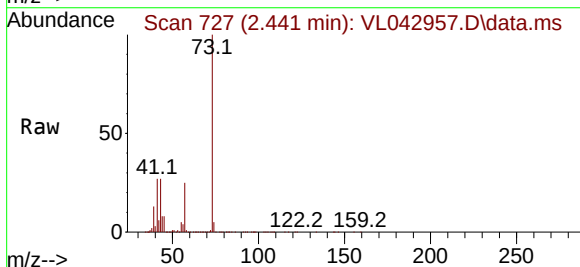
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

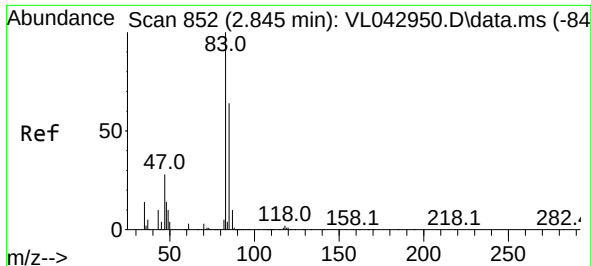
Tgt Ion: 76 Resp: 196191
Ion Ratio Lower Upper
76 100
44 20.2 15.6 23.4
78 12.1 8.9 13.3



#28
Methyl tert-Butyl Ether
Concen: 9.752 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 73 Resp: 121564
Ion Ratio Lower Upper
73 100
57 23.3 20.6 31.0





#29

Chloroform

Concen: 9.583 ppbv

RT: 2.849 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

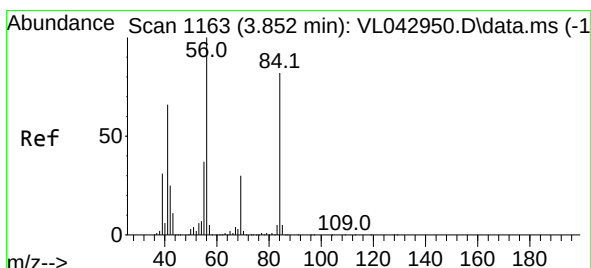
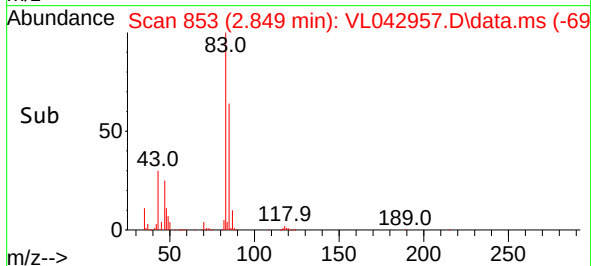
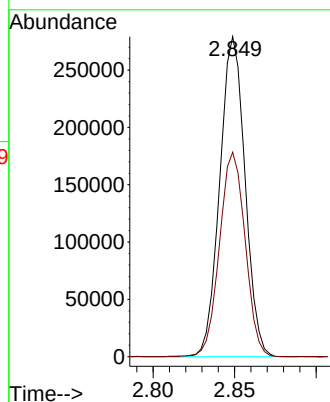
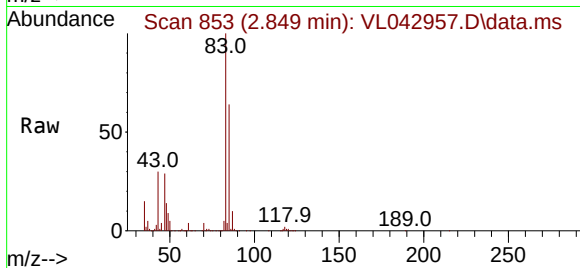
ICVVL092225

Tgt Ion: 83 Resp: 300507

Ion Ratio Lower Upper

83 100

85 63.9 51.2 76.8



#30

Cyclohexane

Concen: 9.286 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.003 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

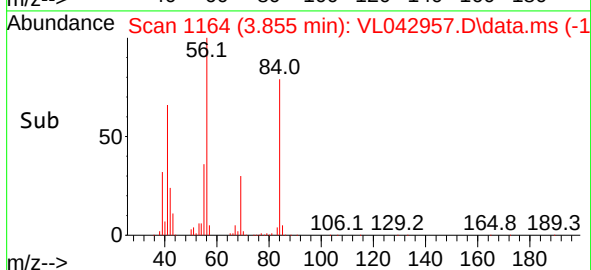
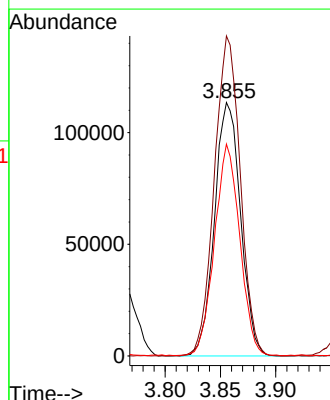
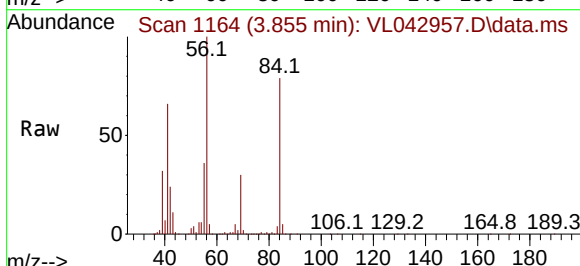
Tgt Ion: 84 Resp: 186186

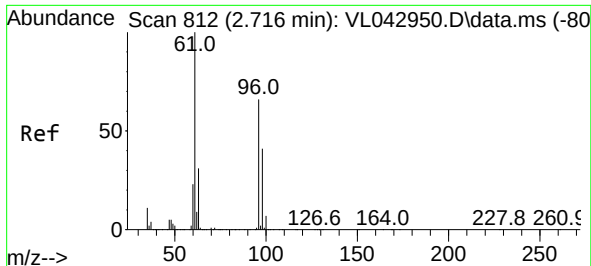
Ion Ratio Lower Upper

84 100

56 125.6 102.2 153.4

41 81.2 65.6 98.4

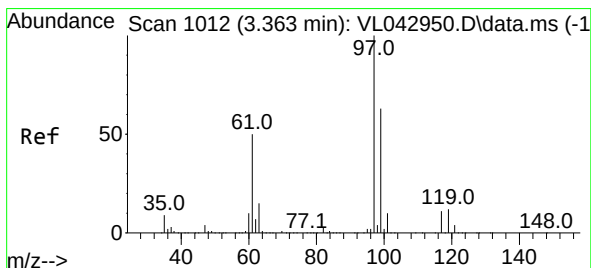
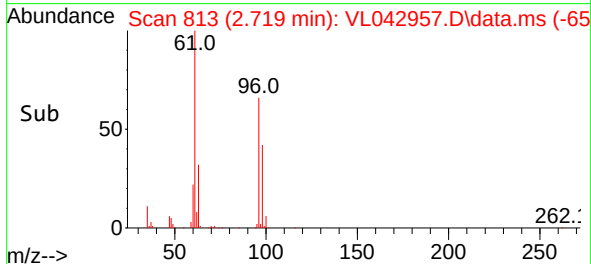
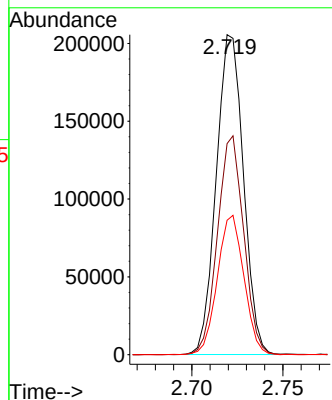
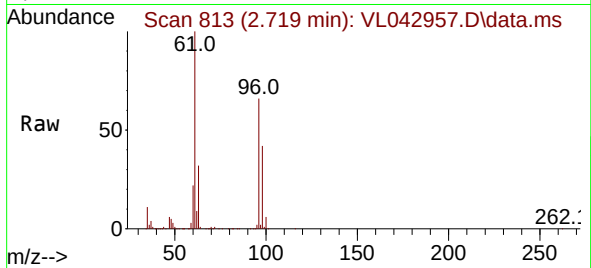




#31
 cis-1,2-Dichloroethene
 Concen: 9.497 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

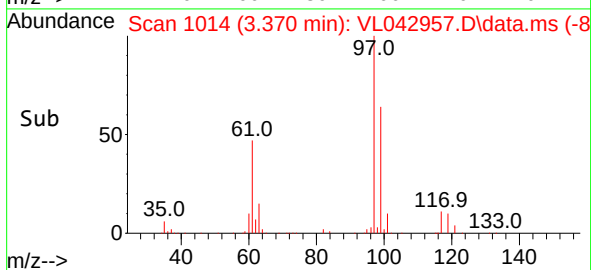
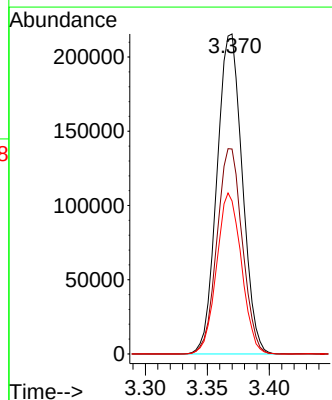
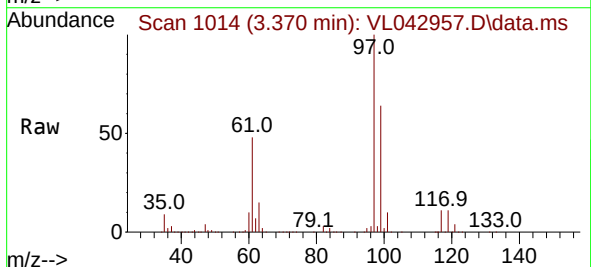
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL092225

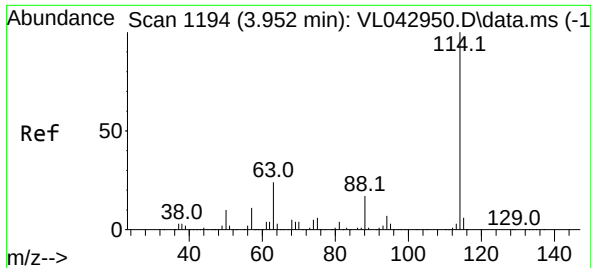
Tgt Ion: 61 Resp: 213362
 Ion Ratio Lower Upper
 61 100
 96 65.9 53.0 79.6
 98 42.0 32.9 49.3



#32
 1,1,1-Trichloroethane
 Concen: 9.071 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.007 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

Tgt Ion: 97 Resp: 307237
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.1 76.7
 61 49.3 39.8 59.6

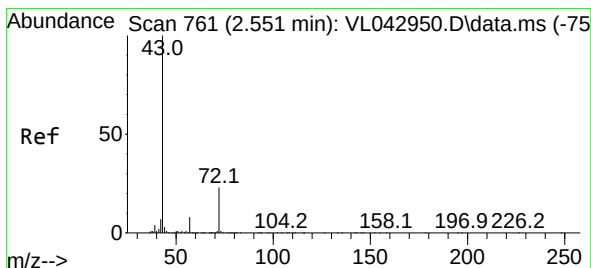
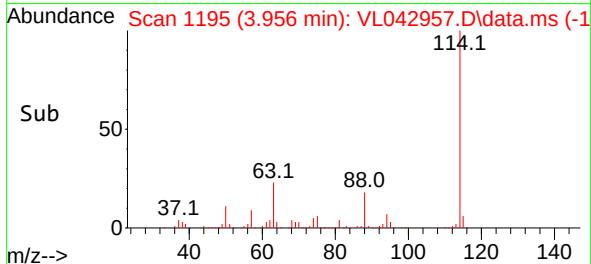
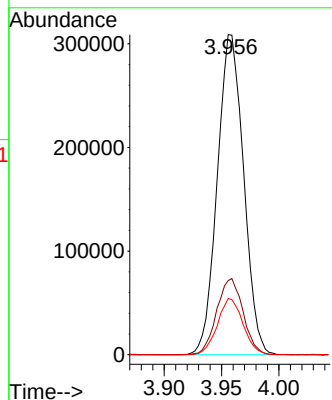
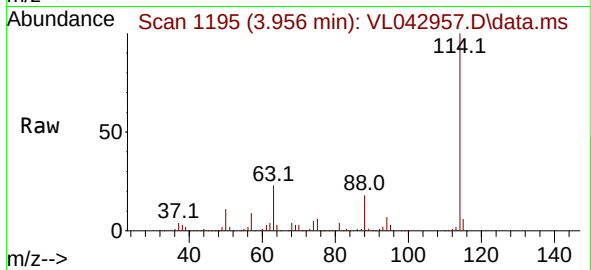




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.956 min Scan# 1195
 Delta R.T. 0.003 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

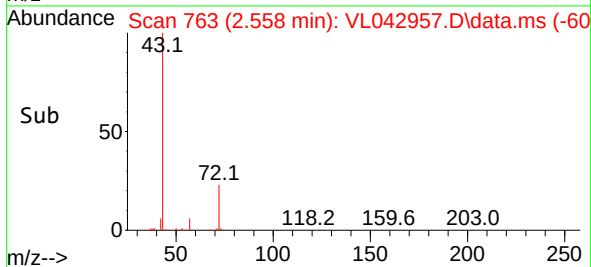
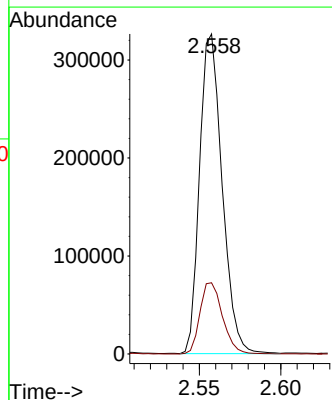
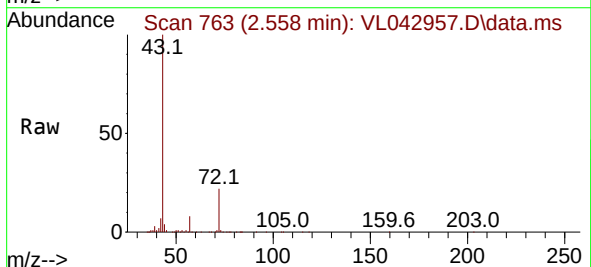
Instrument : MSVOA_L
 ClientSampleId : ICVVL092225

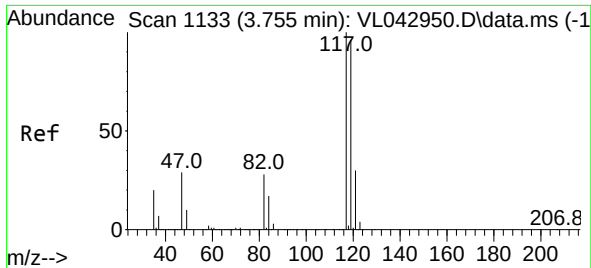
Tgt Ion:114 Resp: 493072
 Ion Ratio Lower Upper
 114 100
 63 23.8 19.4 29.2
 88 17.0 14.2 21.2



#34
 2-Butanone
 Concen: 9.081 ppbv
 RT: 2.558 min Scan# 763
 Delta R.T. 0.007 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

Tgt Ion: 43 Resp: 313801
 Ion Ratio Lower Upper
 43 100
 72 22.3 17.7 26.5

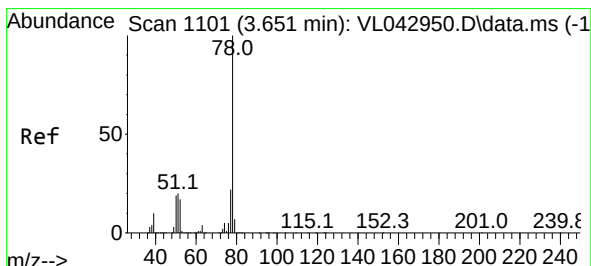
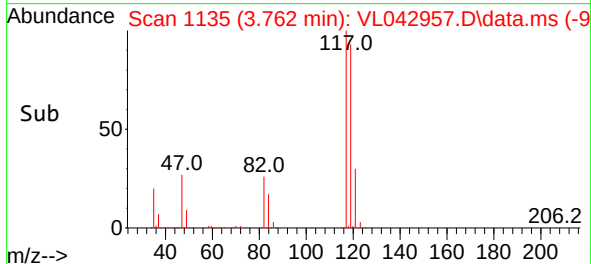
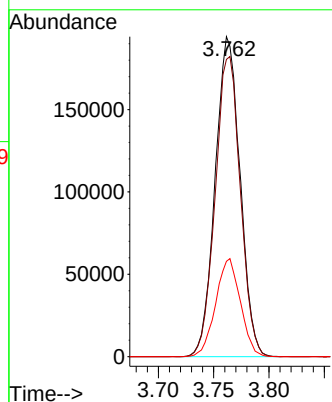
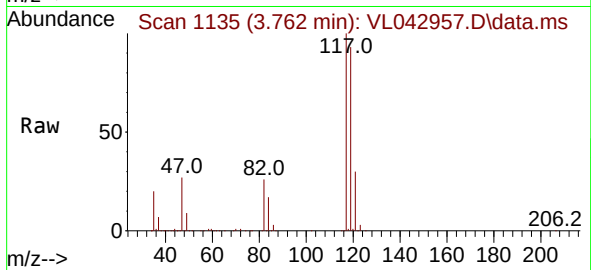




#35
Carbon Tetrachloride
Concen: 9.479 ppbv
RT: 3.762 min Scan# 1135
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

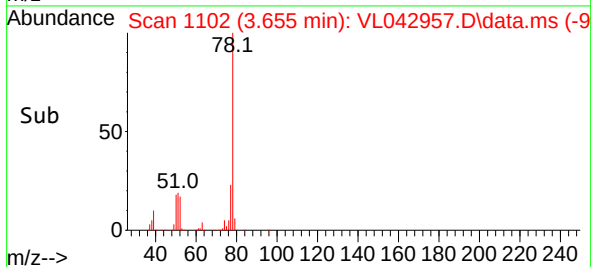
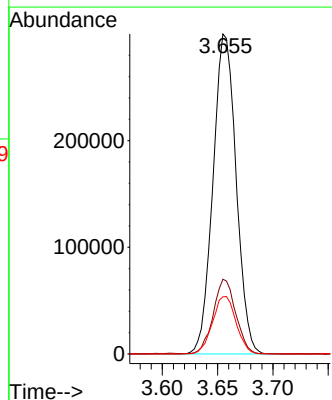
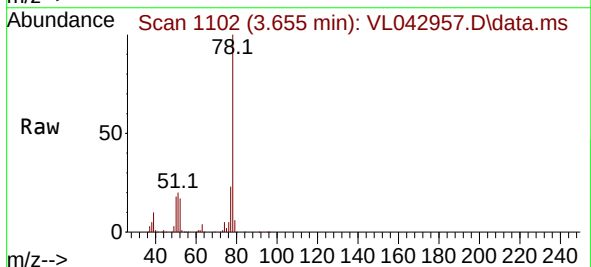
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

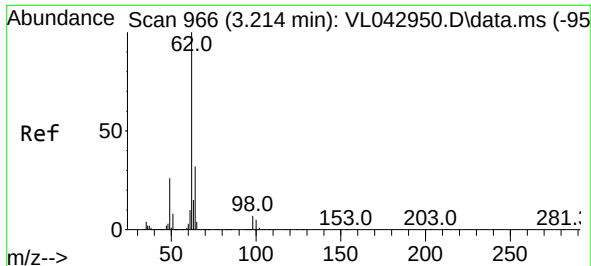
Tgt Ion:117 Resp: 304293
Ion Ratio Lower Upper
117 100
119 92.9 76.9 115.3
121 29.8 23.7 35.5



#36
Benzene
Concen: 9.416 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 78 Resp: 435981
Ion Ratio Lower Upper
78 100
77 23.3 17.8 26.6
50 17.9 15.0 22.4





#37

1,2-Dichloroethane

Concen: 9.581 ppbv

RT: 3.218 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

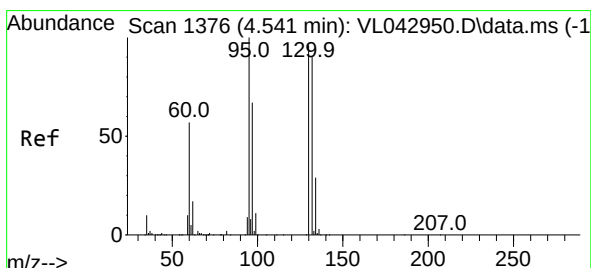
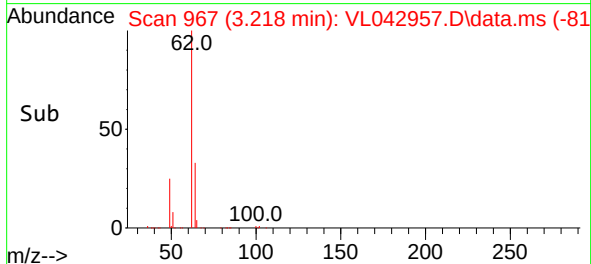
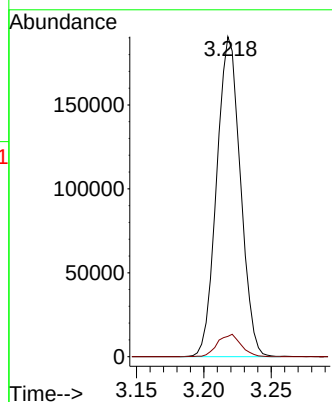
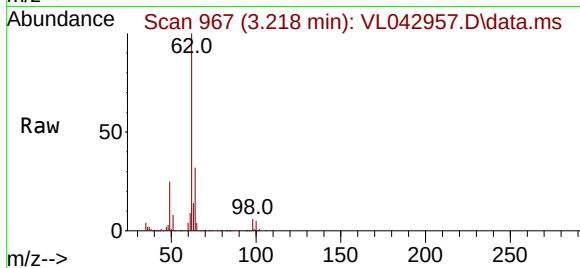
ICVVL092225

Tgt Ion: 62 Resp: 233305

Ion Ratio Lower Upper

62 100

98 7.0 5.9 8.9



#38

Trichloroethene

Concen: 8.927 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. 0.007 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Tgt Ion:130 Resp: 205431

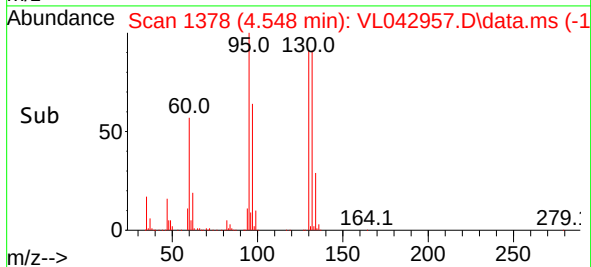
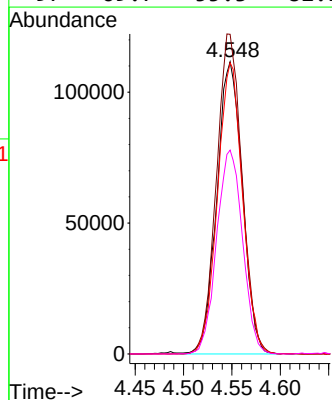
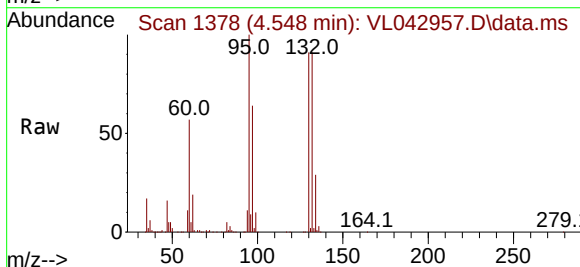
Ion Ratio Lower Upper

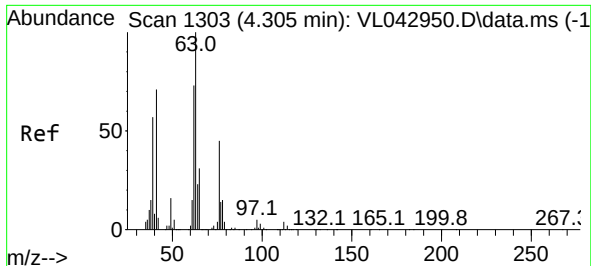
130 100

95 109.4 83.0 124.4

132 99.7 74.6 112.0

97 69.7 55.3 82.9





#39

1,2-Dichloropropane

Concen: 9.482 ppbv

RT: 4.312 min Scan# 11

Delta R.T. 0.007 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225

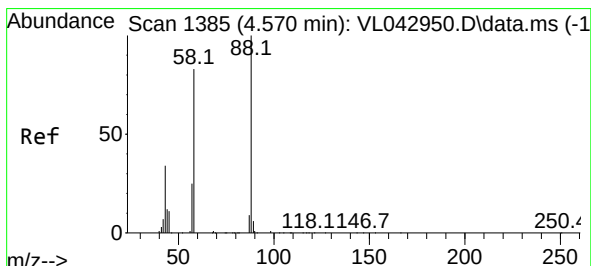
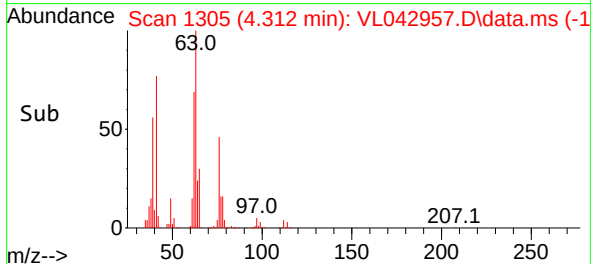
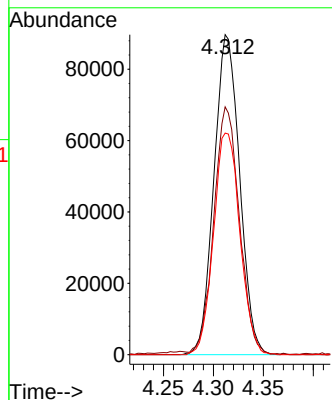
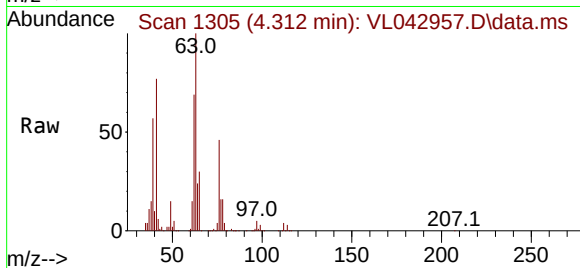
Tgt Ion: 63 Resp: 160275

Ion Ratio Lower Upper

63 100

41 77.2 57.5 86.3

62 69.3 58.5 87.7



#40

1,4-Dioxane

Concen: 8.863 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. 0.007 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Tgt Ion: 88 Resp: 69659

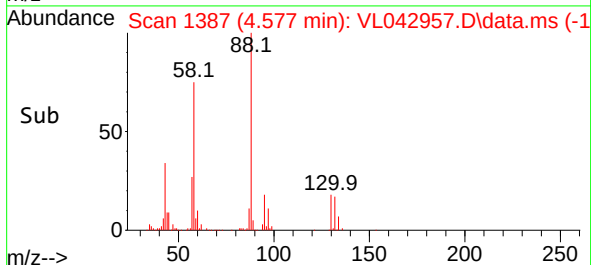
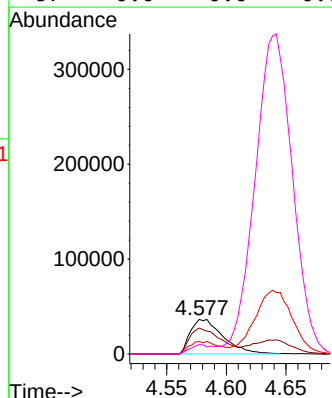
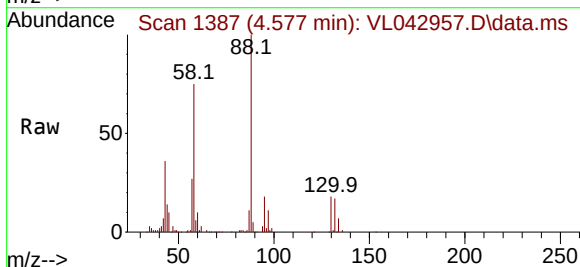
Ion Ratio Lower Upper

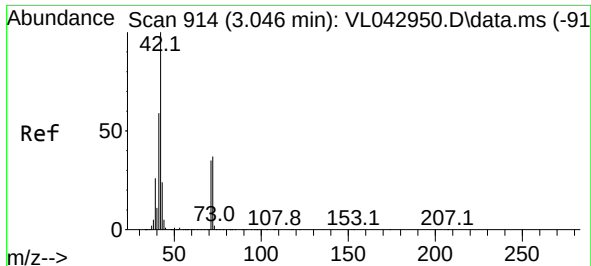
88 100

58 70.6 59.7 89.5

43 32.1 28.9 43.3

57 0.0 0.0 0.0

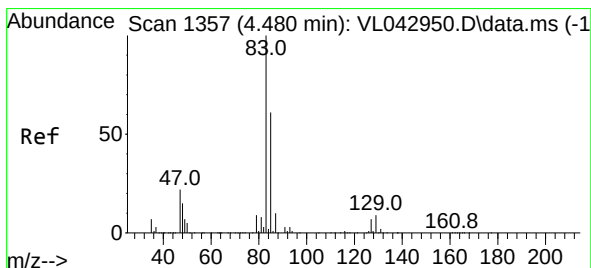
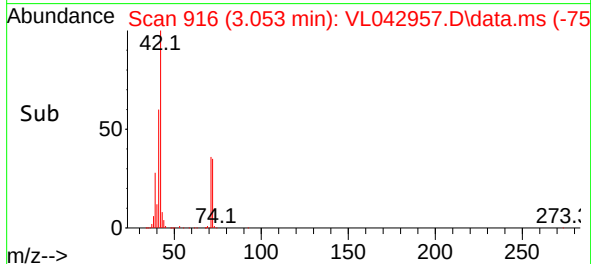
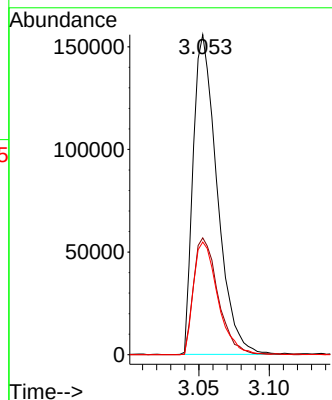
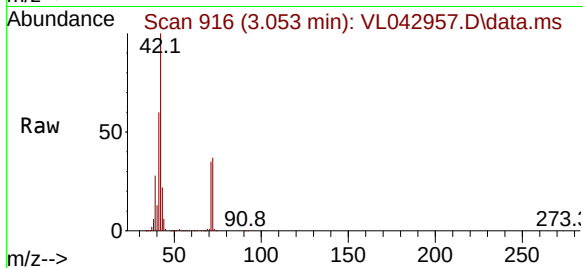




#41
Tetrahydrofuran
Concen: 9.277 ppbv
RT: 3.053 min Scan# 914
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

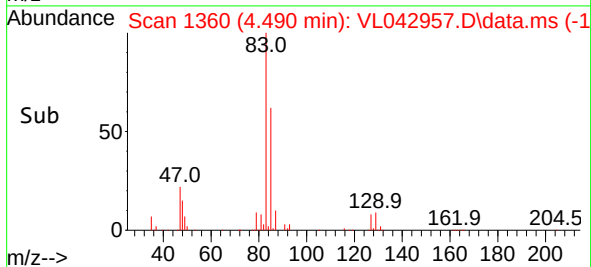
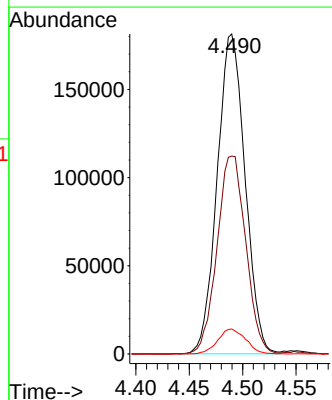
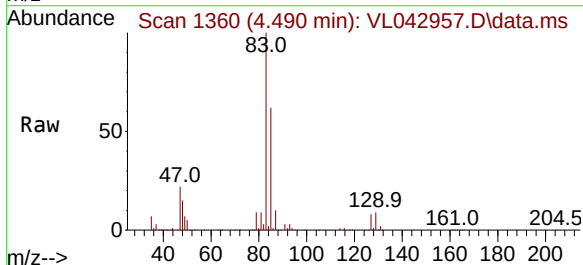
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

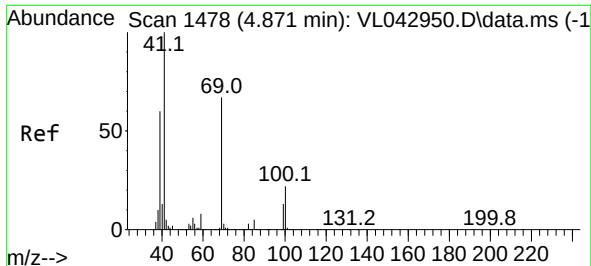
Tgt Ion: 42 Resp: 184258
Ion Ratio Lower Upper
42 100
72 37.4 30.0 45.0
71 35.9 28.8 43.2



#42
Bromodichloromethane
Concen: 9.721 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.010 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 83 Resp: 329680
Ion Ratio Lower Upper
83 100
85 61.8 49.0 73.6
127 7.8 5.3 7.9





#43

Methyl Methacrylate

Concen: 9.125 ppbv

RT: 4.878 min Scan# 1478

Delta R.T. 0.007 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225

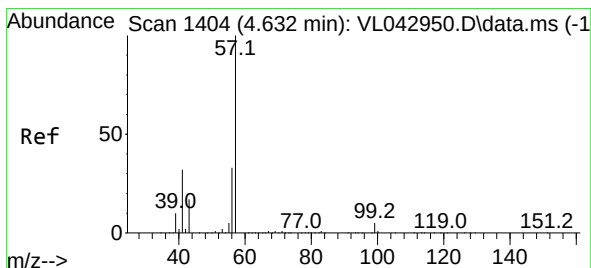
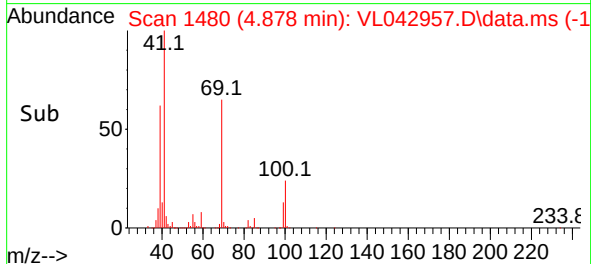
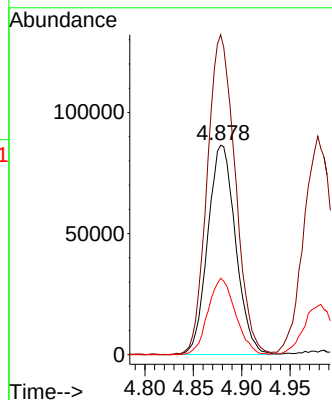
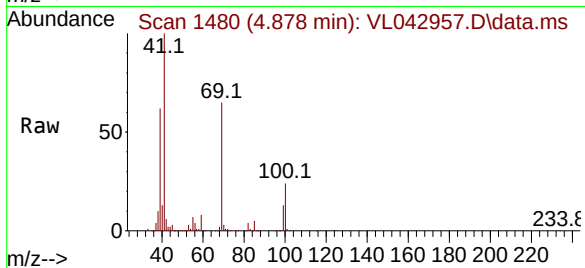
Tgt Ion: 69 Resp: 172867

Ion Ratio Lower Upper

69 100

41 153.4 124.5 186.7

100 36.1 29.0 43.6



#44

2,2,4-Trimethylpentane

Concen: 9.239 ppbv

RT: 4.642 min Scan# 1407

Delta R.T. 0.010 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

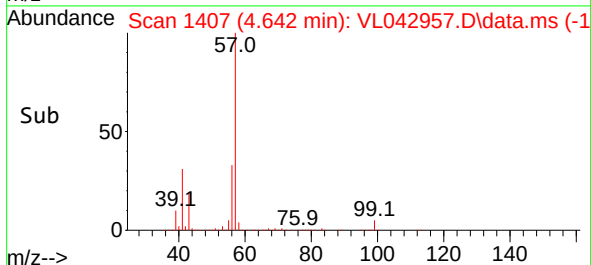
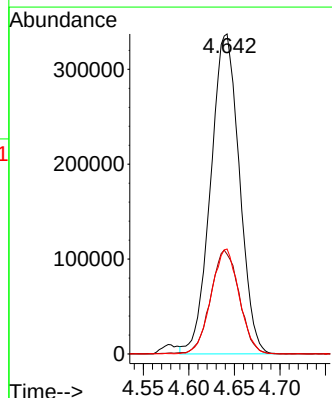
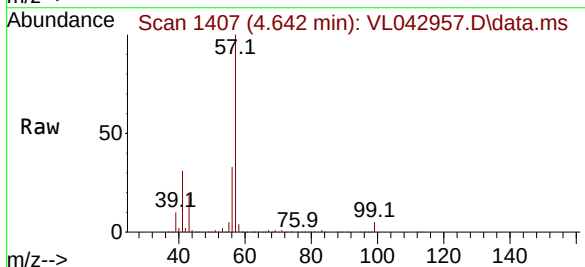
Tgt Ion: 57 Resp: 738876

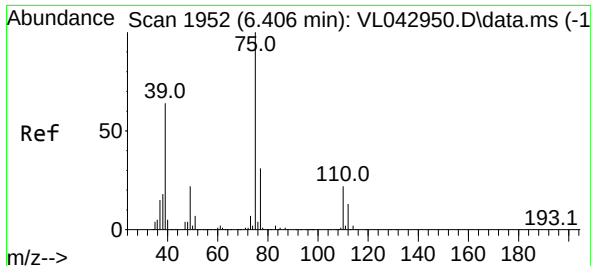
Ion Ratio Lower Upper

57 100

41 32.5 25.5 38.3

56 32.3 25.8 38.8

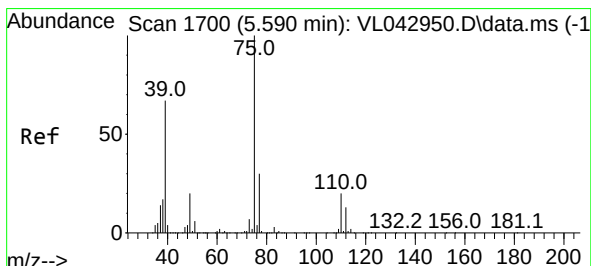
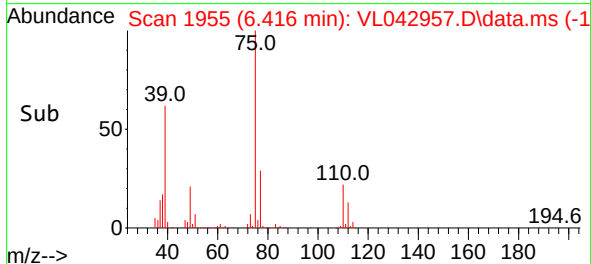
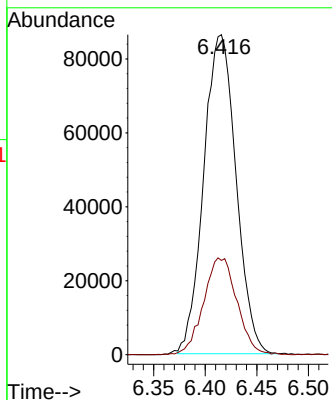
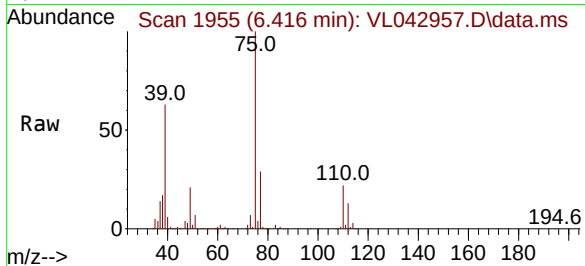




#45
 t-1,3-Dichloropropene
 Concen: 9.321 ppbv
 RT: 6.416 min Scan# 1952
 Delta R.T. 0.010 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

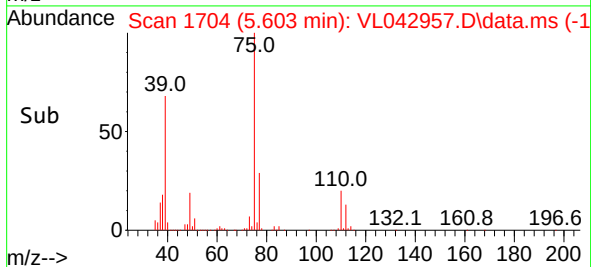
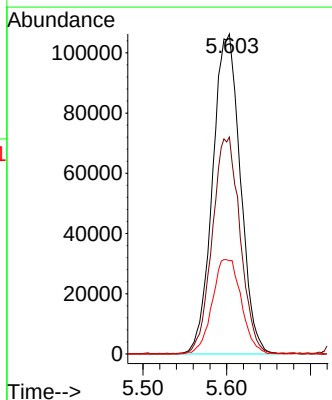
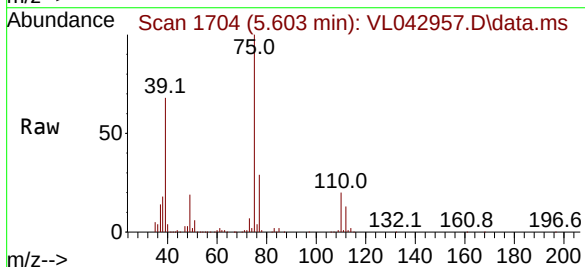
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

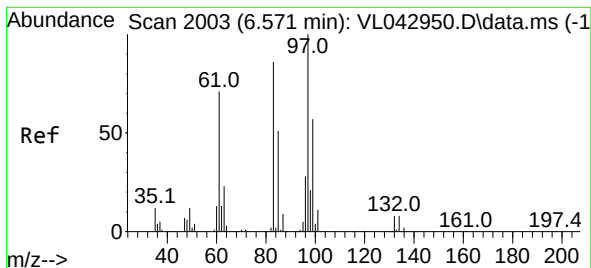
Tgt Ion: 75 Resp: 188332
 Ion Ratio Lower Upper
 75 100
 77 29.5 25.0 37.4



#46
 cis-1,3-Dichloropropene
 Concen: 9.490 ppbv
 RT: 5.603 min Scan# 1704
 Delta R.T. 0.013 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

Tgt Ion: 75 Resp: 244367
 Ion Ratio Lower Upper
 75 100
 39 67.6 53.8 80.6
 77 29.1 23.6 35.4





#47

1,1,2-Trichloroethane

Concen: 9.279 ppbv

RT: 6.577 min Scan# 2003

Delta R.T. 0.007 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225

Tgt Ion: 97 Resp: 165721

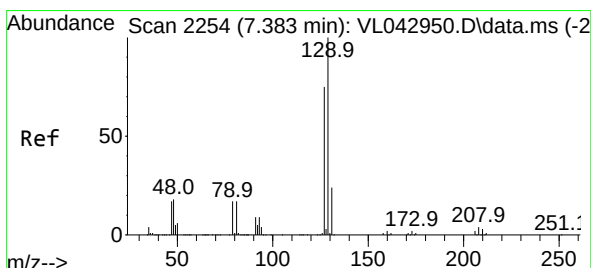
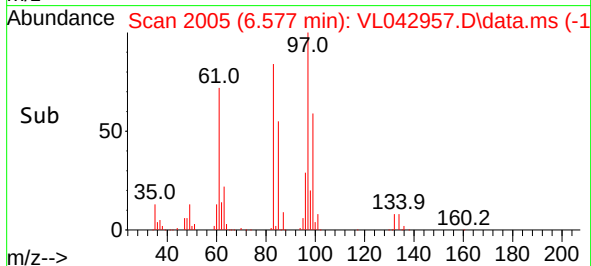
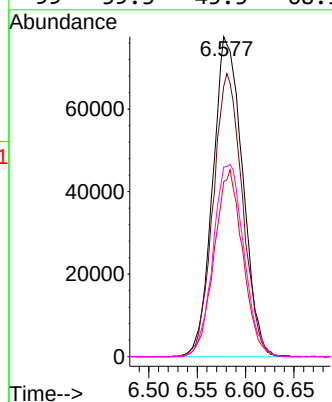
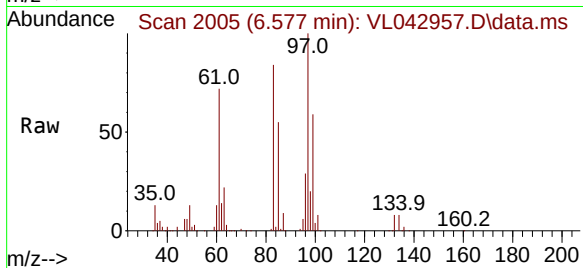
Ion Ratio Lower Upper

97 100

83 84.4 68.7 103.1

85 54.5 40.6 60.8

99 59.3 45.5 68.3



#48

Dibromochloromethane

Concen: 9.732 ppbv

RT: 7.387 min Scan# 2255

Delta R.T. 0.003 min

Lab File: VL042957.D

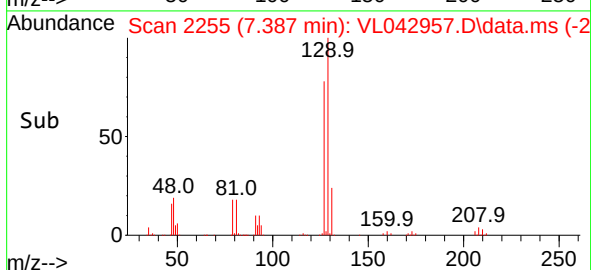
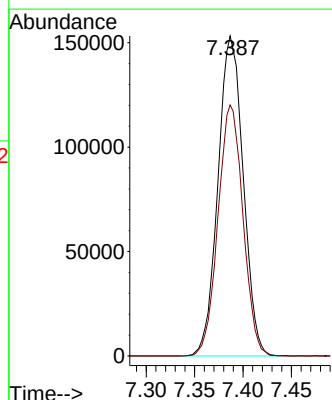
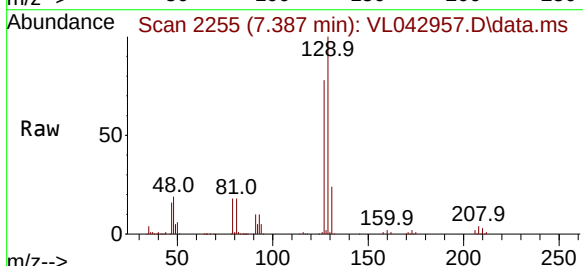
Acq: 22 Sep 2025 14:15

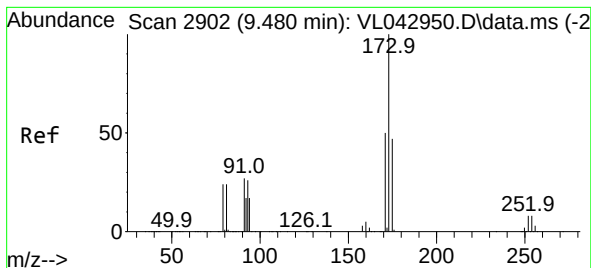
Tgt Ion: 129 Resp: 278090

Ion Ratio Lower Upper

129 100

127 77.5 39.1 117.2





#49

Bromoform

Concen: 9.589 ppbv

RT: 9.484 min Scan# 2902

Delta R.T. 0.003 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225

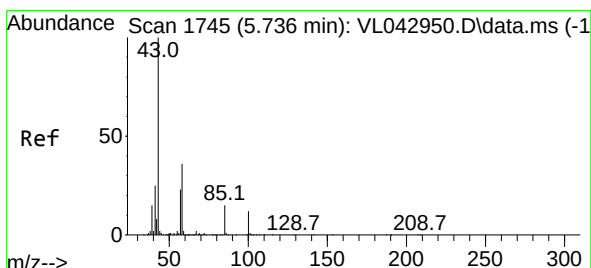
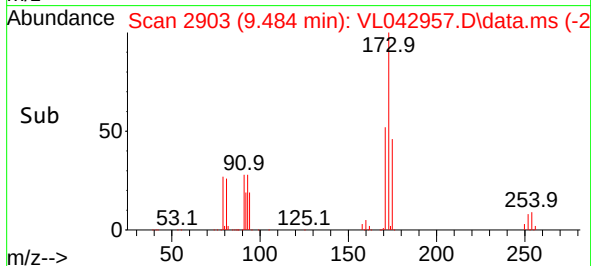
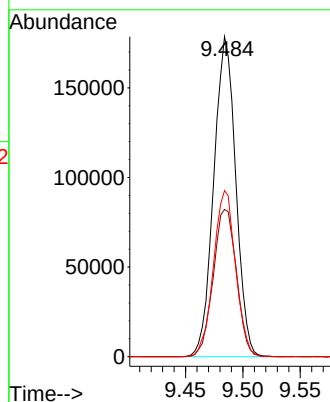
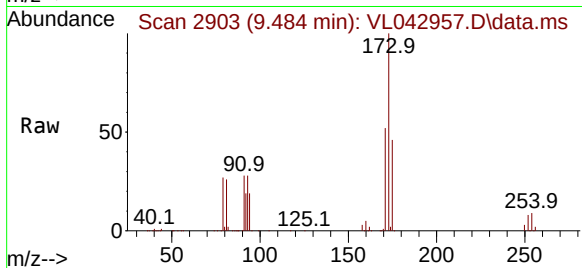
Tgt Ion:173 Resp: 238337

Ion Ratio Lower Upper

173 100

175 48.6 37.9 56.9

171 52.1 41.1 61.7



#50

4-Methyl-2-Pentanone

Concen: 9.411 ppbv

RT: 5.746 min Scan# 1748

Delta R.T. 0.010 min

Lab File: VL042957.D

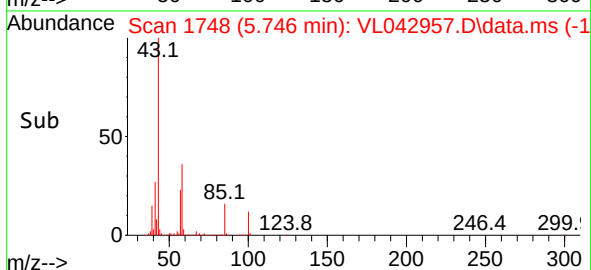
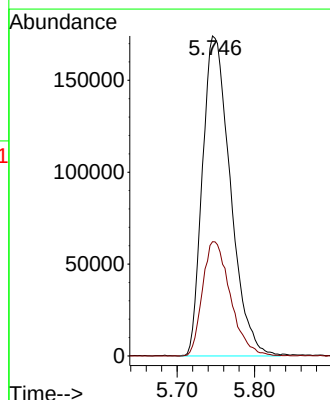
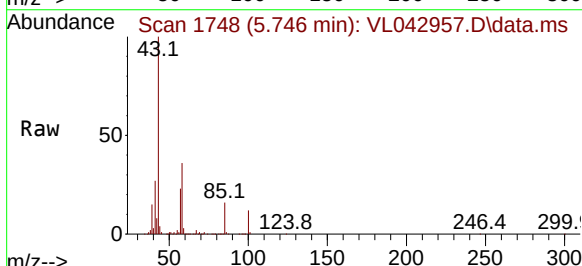
Acq: 22 Sep 2025 14:15

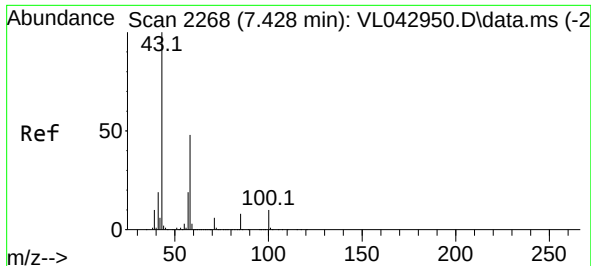
Tgt Ion: 43 Resp: 435845

Ion Ratio Lower Upper

43 100

58 35.8 28.4 42.6

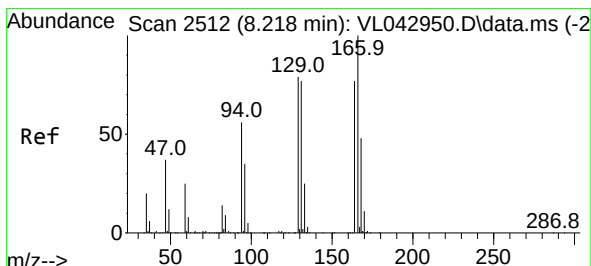
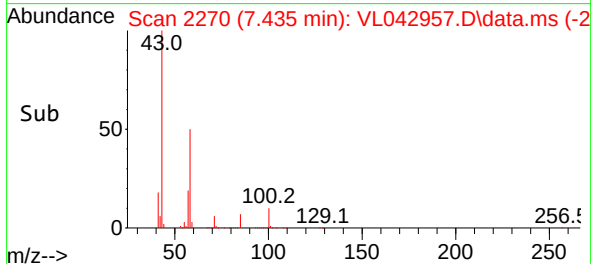
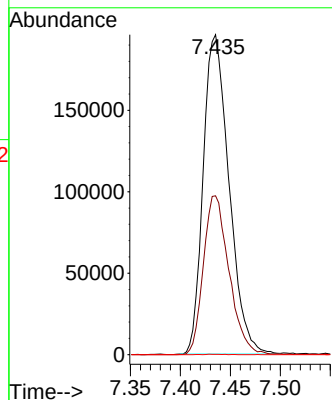
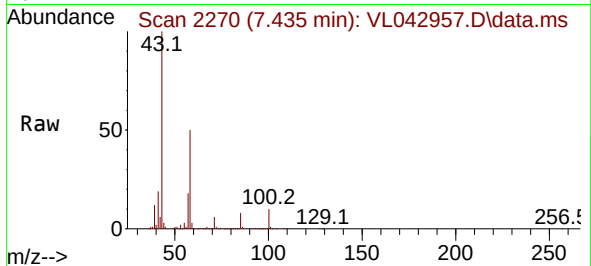




#51
2-Hexanone
Concen: 9.561 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

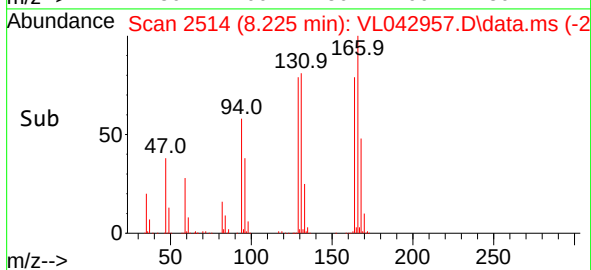
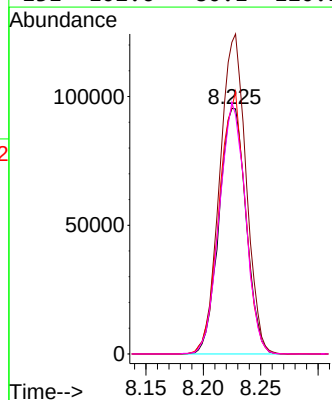
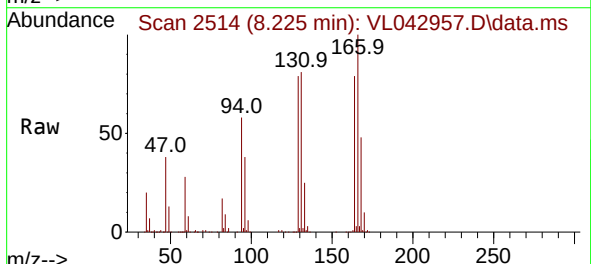
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

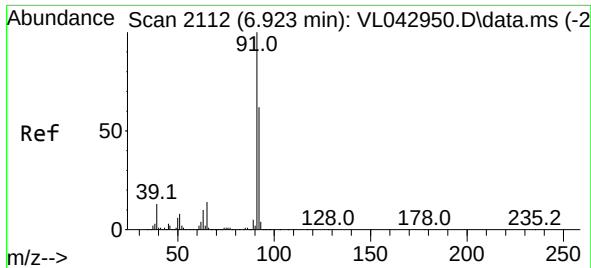
Tgt Ion: 43 Resp: 352962
Ion Ratio Lower Upper
43 100
58 49.5 39.7 59.5
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 8.678 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 164 Resp: 155469
Ion Ratio Lower Upper
164 100
166 127.0 103.5 155.3
129 100.4 82.2 123.4
131 102.6 80.1 120.1





#53

Toluene

Concen: 9.306 ppbv

RT: 6.933 min Scan# 2115

Delta R.T. 0.010 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

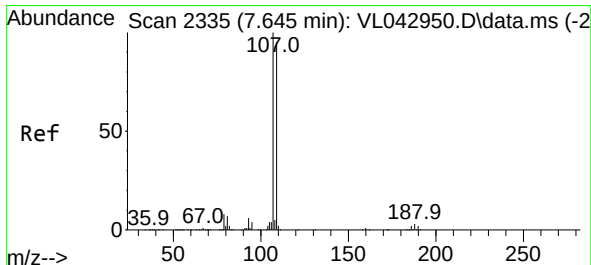
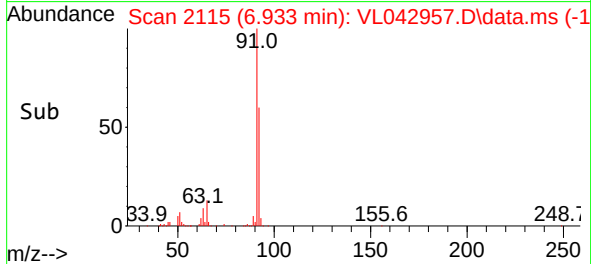
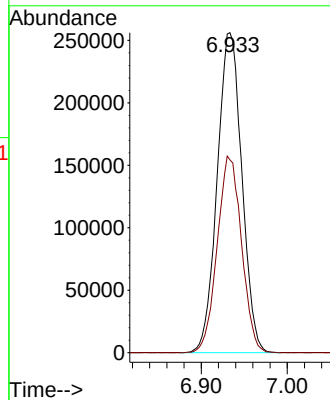
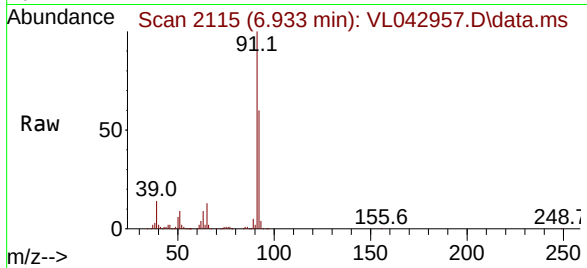
ICVVL092225

Tgt Ion: 91 Resp: 509968

Ion Ratio Lower Upper

91 100

92 60.7 48.2 72.2



#54

1,2-Dibromoethane

Concen: 9.452 ppbv

RT: 7.652 min Scan# 2337

Delta R.T. 0.007 min

Lab File: VL042957.D

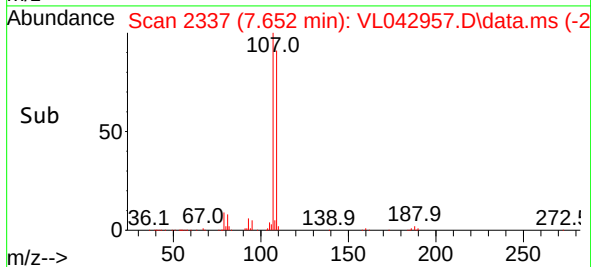
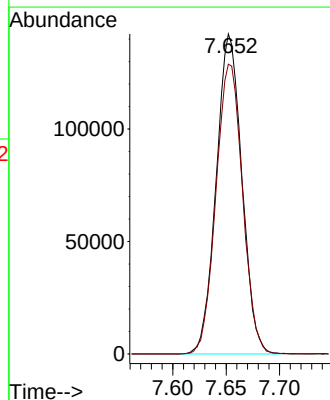
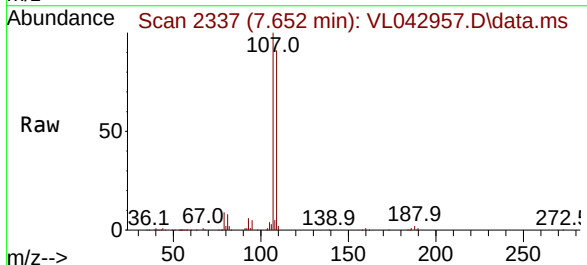
Acq: 22 Sep 2025 14:15

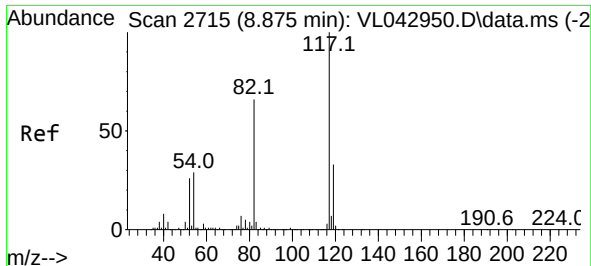
Tgt Ion: 107 Resp: 237604

Ion Ratio Lower Upper

107 100

109 90.6 75.8 113.8

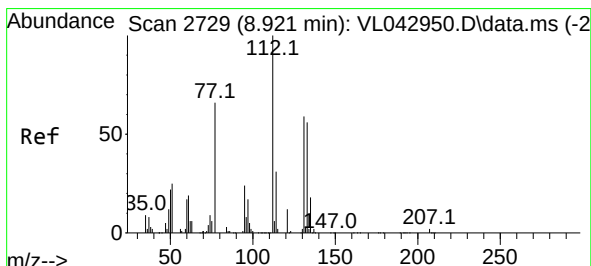
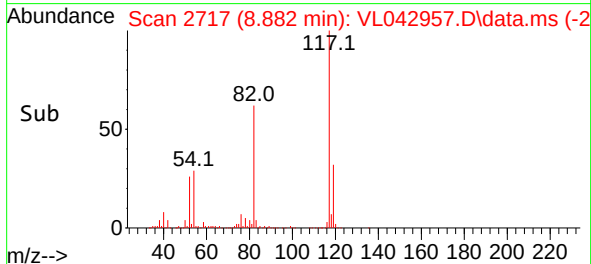
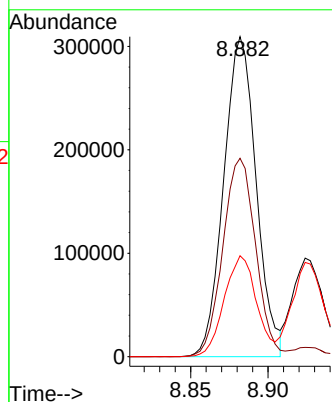
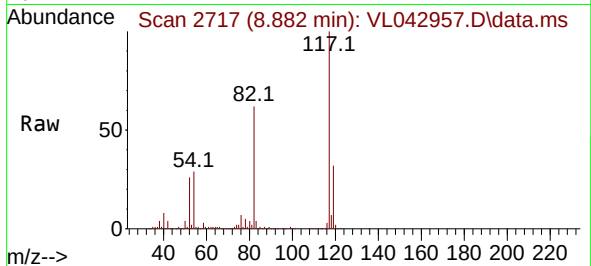




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

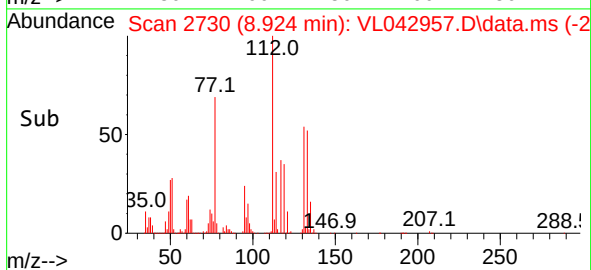
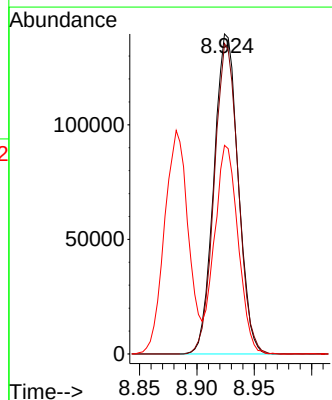
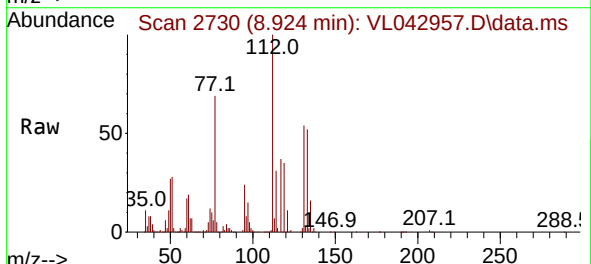
Instrument :
MSVOA_1
ClientSampleId :
ICVVL092225

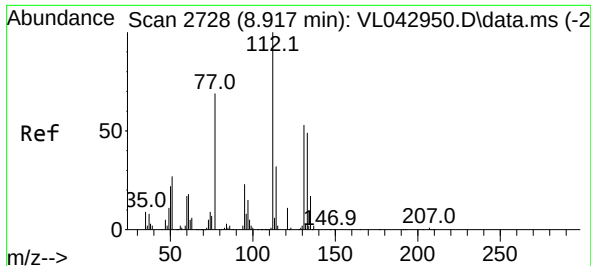
Tgt Ion:117 Resp: 450930
Ion Ratio Lower Upper
117 100
82 65.5 52.8 79.2
119 32.4 26.5 39.7



#56
1,1,1,2-Tetrachloroethane
Concen: 9.536 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion:131 Resp: 205811
Ion Ratio Lower Upper
131 100
133 96.0 76.6 114.8
119 64.5 49.9 74.9

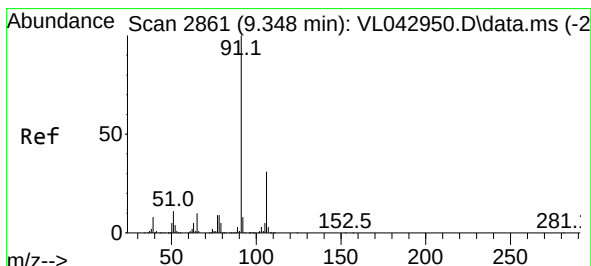
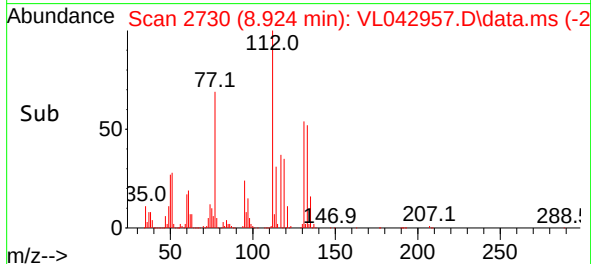
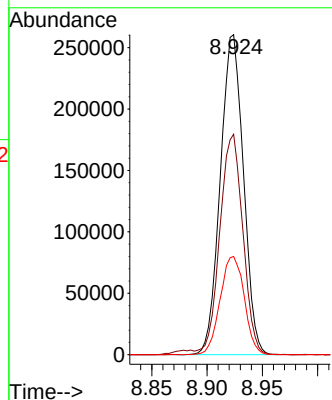
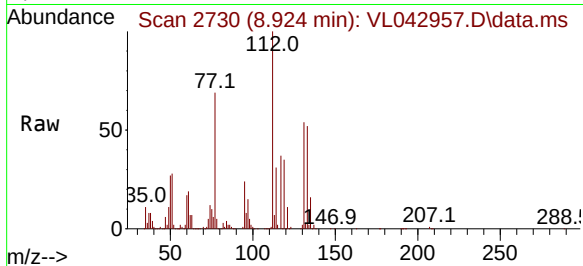




#57
Chlorobenzene
Concen: 9.209 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

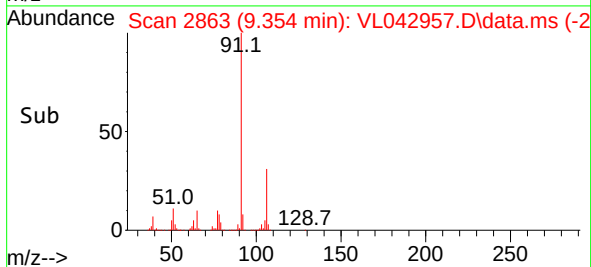
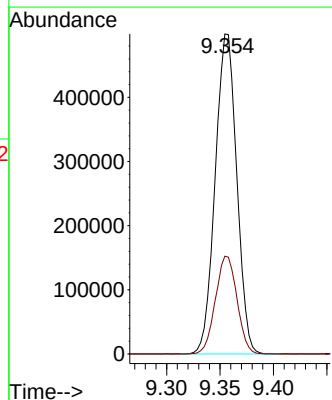
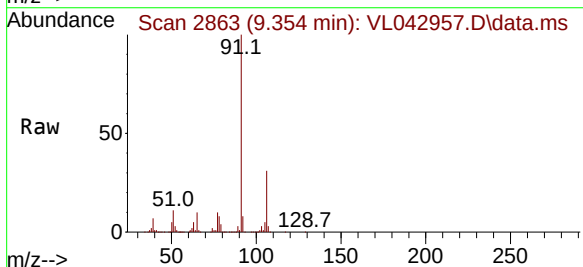
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

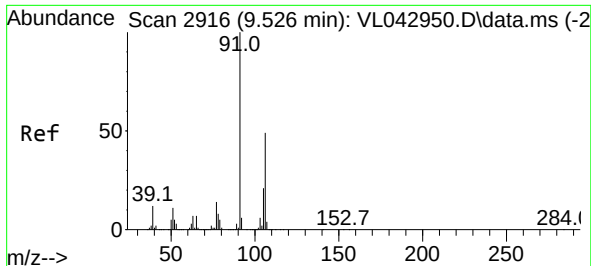
Tgt Ion:112 Resp: 379110
Ion Ratio Lower Upper
112 100
77 68.9 55.7 83.5
114 30.7 28.6 35.0



#58
Ethyl Benzene
Concen: 9.428 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 91 Resp: 698086
Ion Ratio Lower Upper
91 100
106 30.6 24.6 37.0

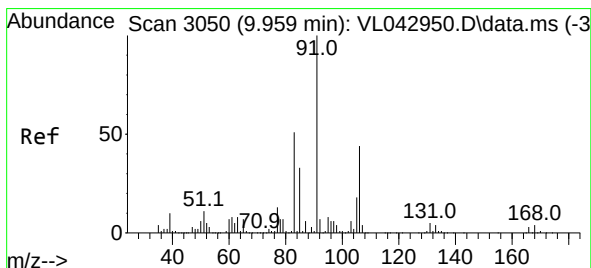
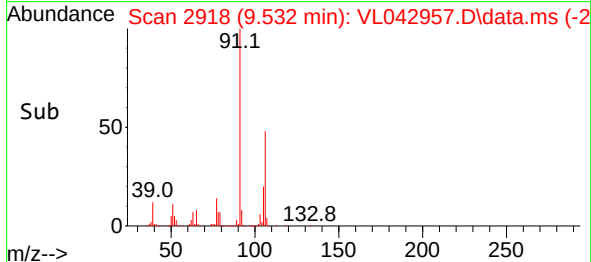
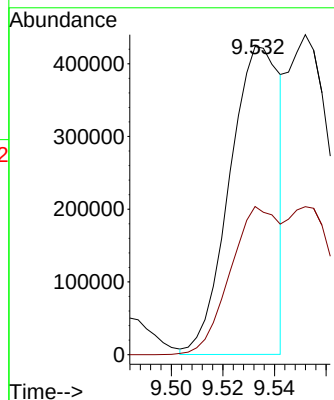
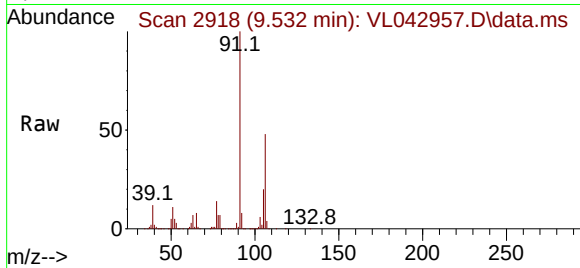




#59
m/p-Xylene
Concen: 9.744 ppbv
RT: 9.532 min Scan# 2916
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

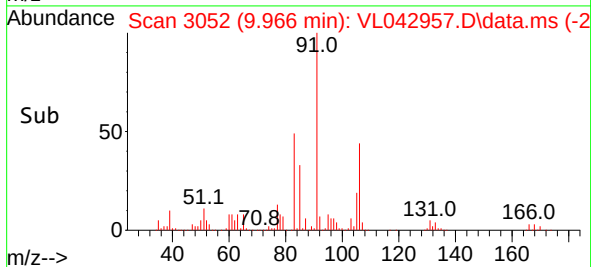
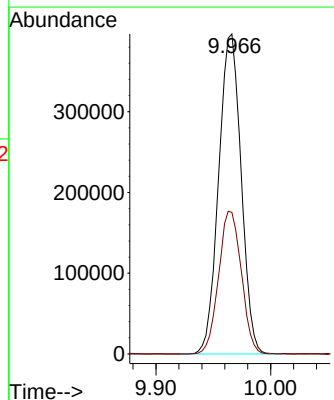
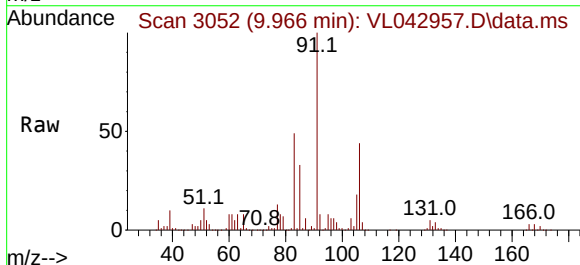
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

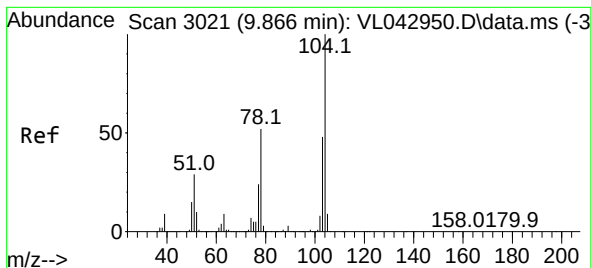
Tgt Ion: 91 Resp: 568845
Ion Ratio Lower Upper
91 100
106 91.2 0.0 0.0#



#60
o-Xylene
Concen: 9.236 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 91 Resp: 538861
Ion Ratio Lower Upper
91 100
106 45.2 22.4 67.0





#61

Styrene

Concen: 9.575 ppbv

RT: 9.872 min Scan# 3021

Delta R.T. 0.007 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_1

ClientSampleId :

ICVVL092225

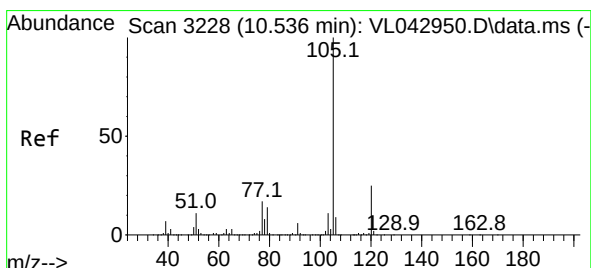
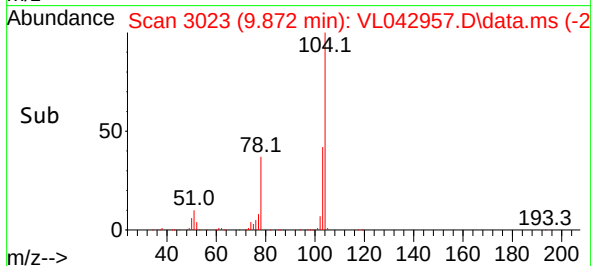
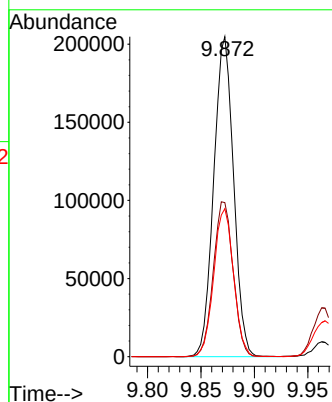
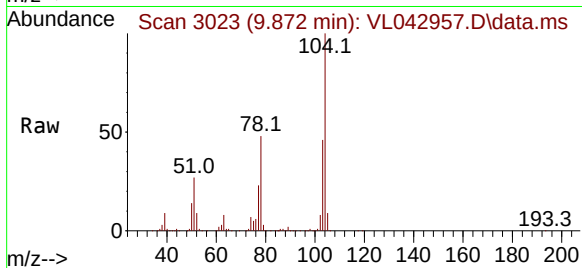
Tgt Ion:104 Resp: 264257

Ion Ratio Lower Upper

104 100

78 48.5 39.9 59.9

103 46.3 36.9 55.3



#62

Isopropylbenzene

Concen: 9.230 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. 0.003 min

Lab File: VL042957.D

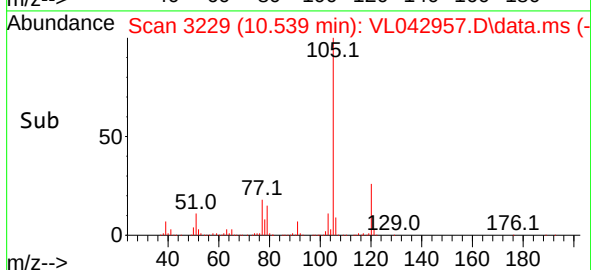
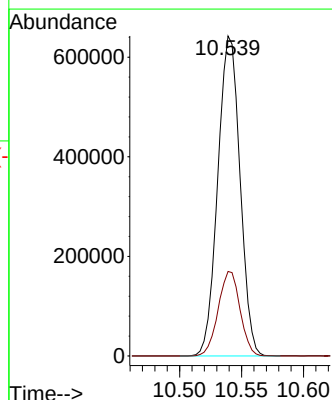
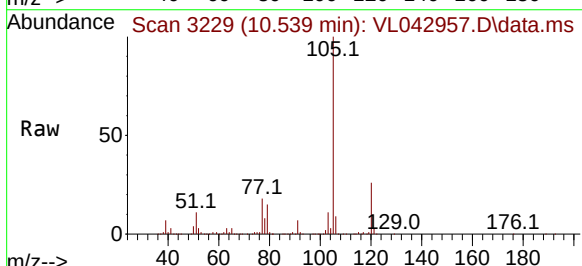
Acq: 22 Sep 2025 14:15

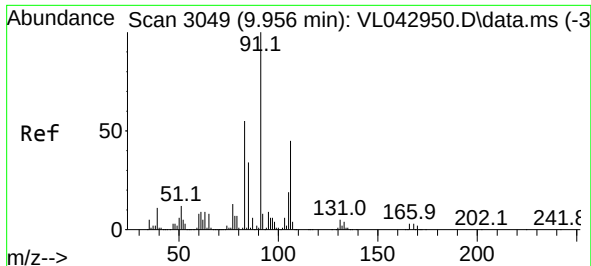
Tgt Ion:105 Resp: 802723

Ion Ratio Lower Upper

105 100

120 26.0 20.6 30.8

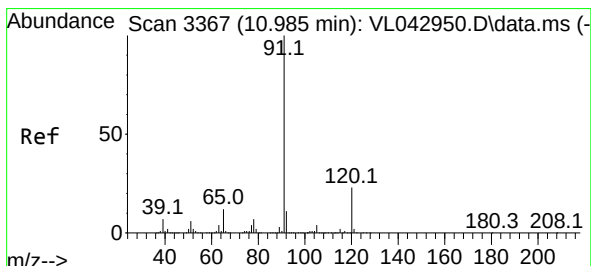
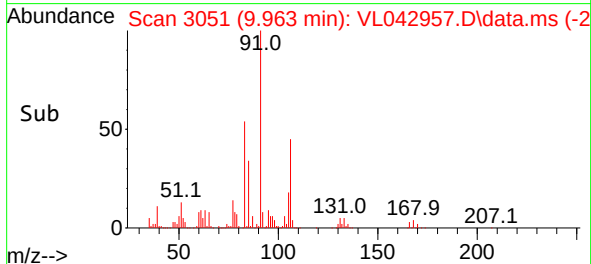
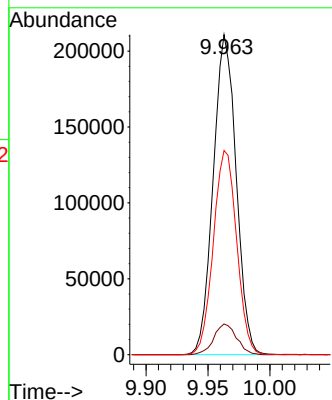
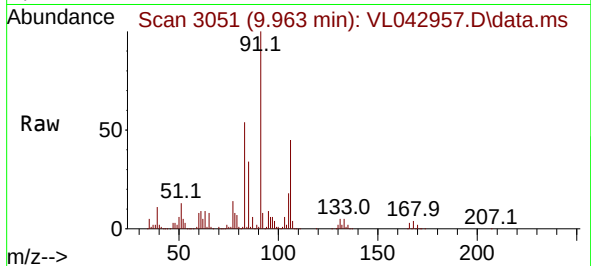




#63
1,1,2,2-Tetrachloroethane
Concen: 8.883 ppbv
RT: 9.963 min Scan# 3049
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

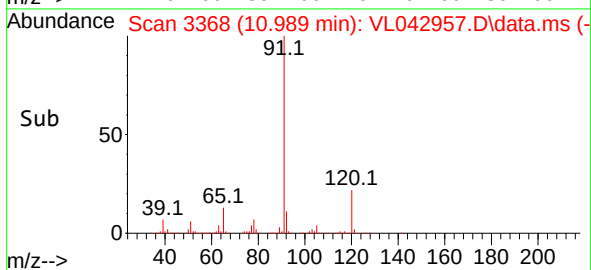
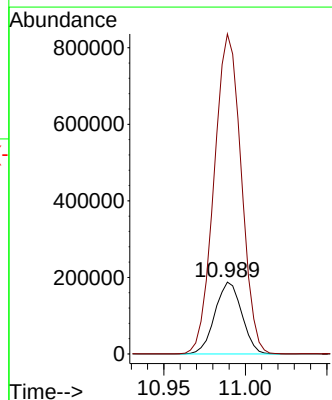
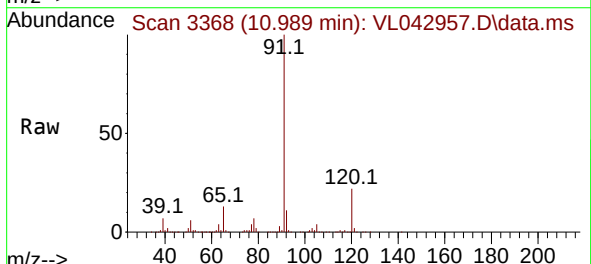
Instrument :
MSVOA_1
ClientSampleId :
ICVVL092225

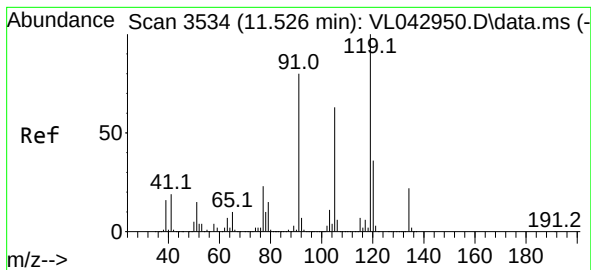
Tgt Ion: 83 Resp: 272416
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 64.7 32.2 96.6



#64
n-propylbenzene
Concen: 9.433 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 120 Resp: 214374
Ion Ratio Lower Upper
120 100
91 452.3 364.9 547.3





#65

tert-Butylbenzene

Concen: 9.196 ppbv

RT: 11.533 min Scan# 3536

Delta R.T. 0.007 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225

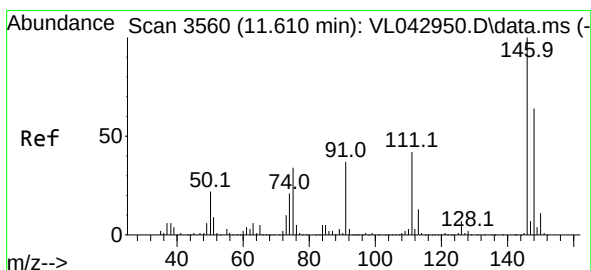
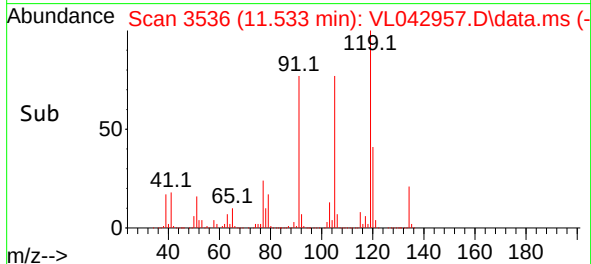
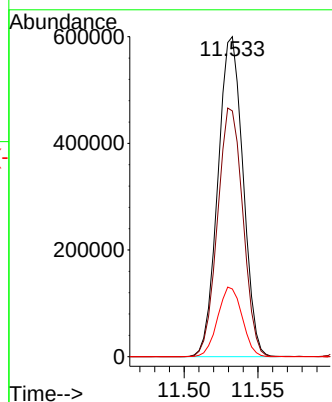
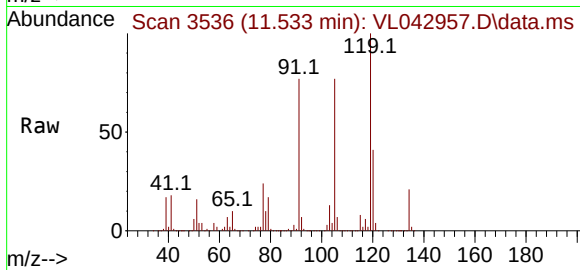
Tgt Ion:119 Resp: 711319

Ion Ratio Lower Upper

119 100

91 78.3 63.1 94.7

134 21.1 17.0 25.6



#66

Benzyl Chloride

Concen: 8.858 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.007 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

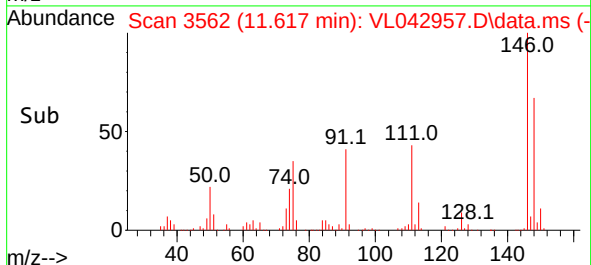
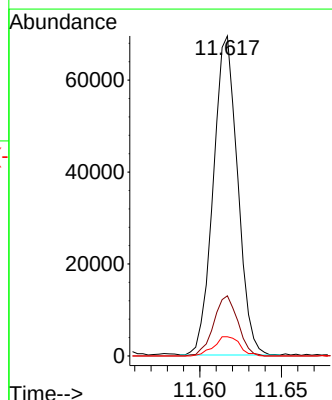
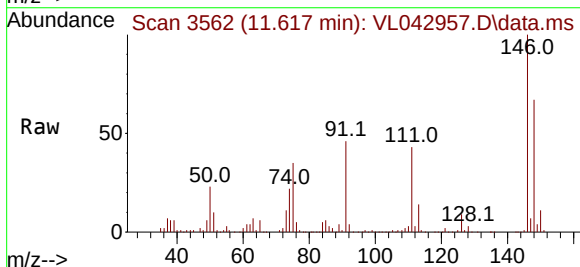
Tgt Ion: 91 Resp: 71896

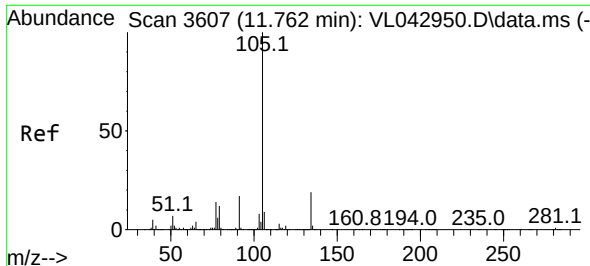
Ion Ratio Lower Upper

91 100

126 18.8 14.6 21.8

128 6.4 5.0 7.4

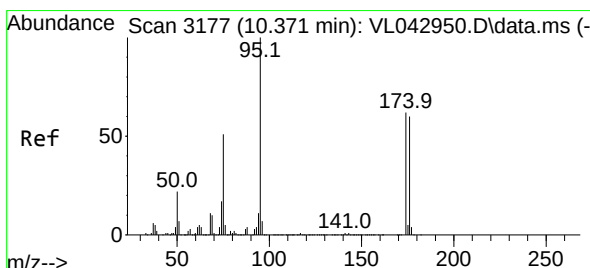
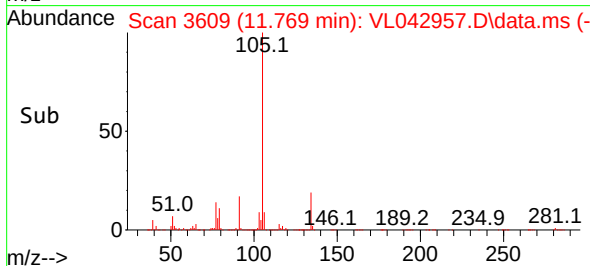
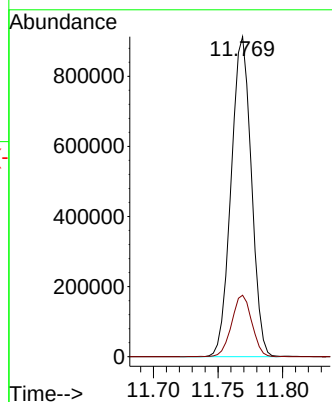
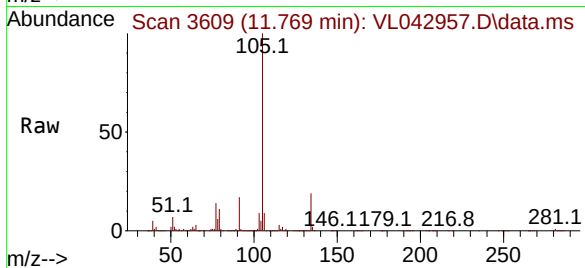




#67
 sec-Butylbenzene
 Concen: 9.235 ppbv
 RT: 11.769 min Scan# 3179
 Delta R.T. 0.007 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

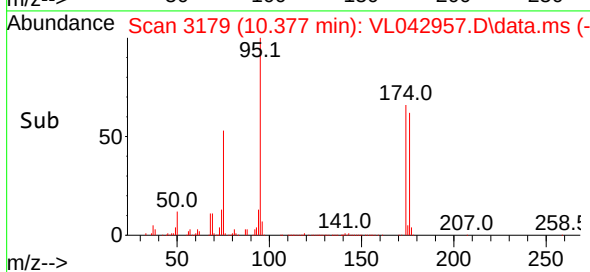
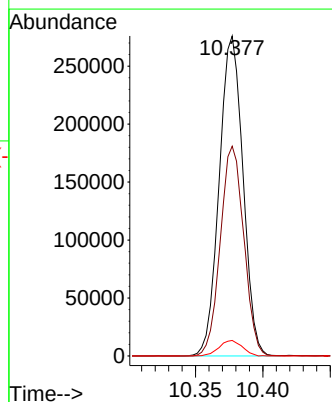
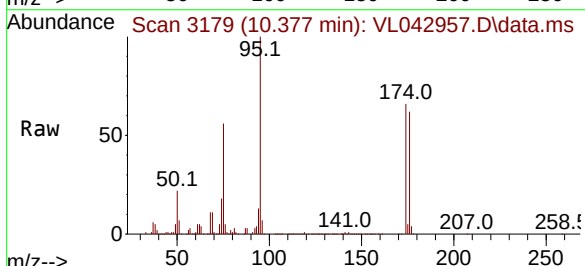
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

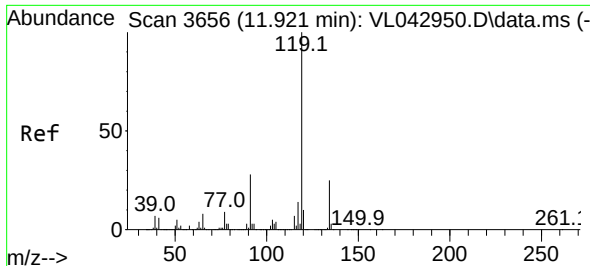
Tgt Ion:105 Resp: 995407
 Ion Ratio Lower Upper
 105 100
 134 19.2 15.7 23.5



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.043 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.007 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

Tgt Ion: 95 Resp: 338071
 Ion Ratio Lower Upper
 95 100
 174 65.0 51.4 77.2
 175 4.8 4.0 6.0

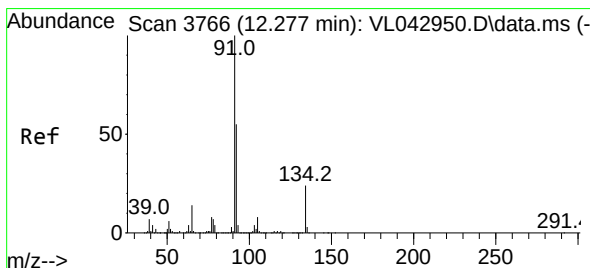
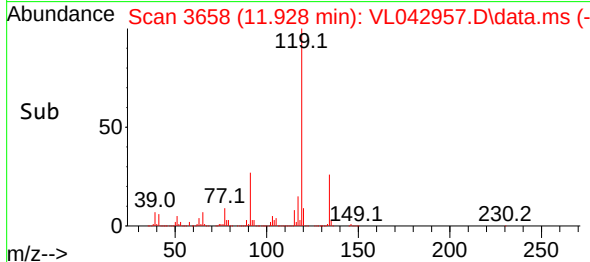
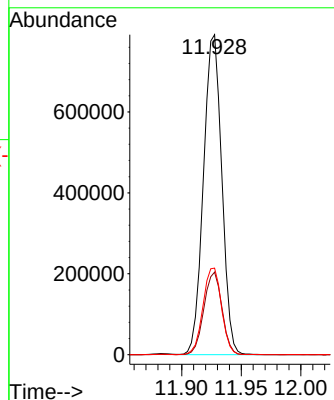
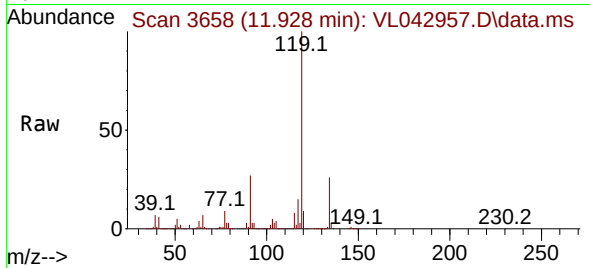




#69
 p-Isopropyltoluene
 Concen: 9.316 ppbv
 RT: 11.928 min Scan# 3658
 Delta R.T. 0.007 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

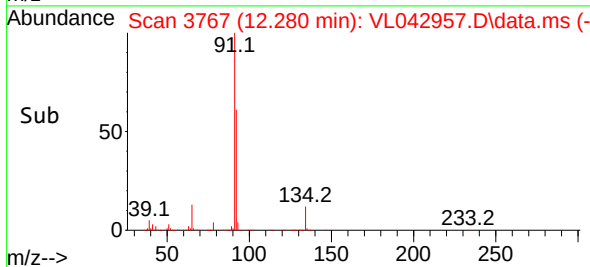
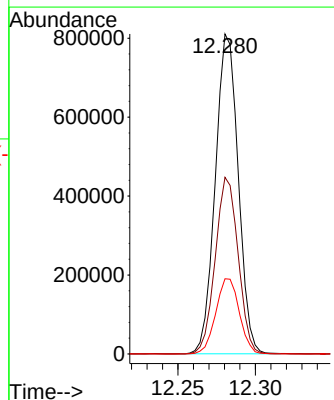
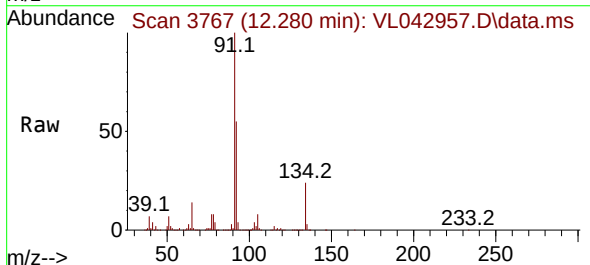
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

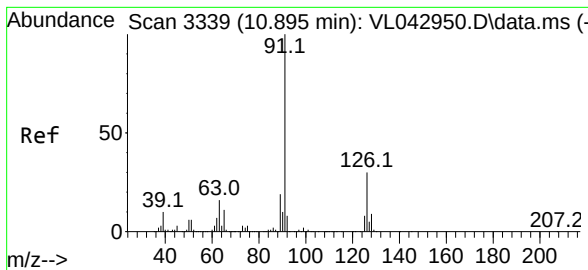
Tgt Ion:119 Resp: 848196
 Ion Ratio Lower Upper
 119 100
 134 25.6 21.0 31.4
 91 27.5 22.3 33.5



#70
 n-Butylbenzene
 Concen: 9.392 ppbv
 RT: 12.280 min Scan# 3767
 Delta R.T. 0.003 min
 Lab File: VL042957.D
 Acq: 22 Sep 2025 14:15

Tgt Ion: 91 Resp: 834882
 Ion Ratio Lower Upper
 91 100
 92 55.2 44.0 66.0
 134 24.2 19.4 29.2

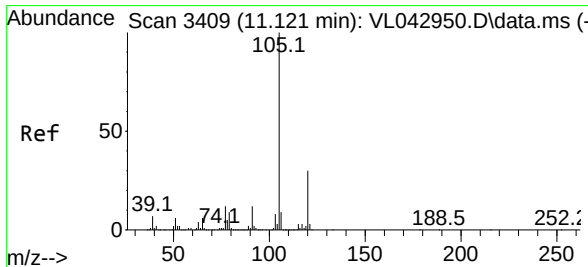
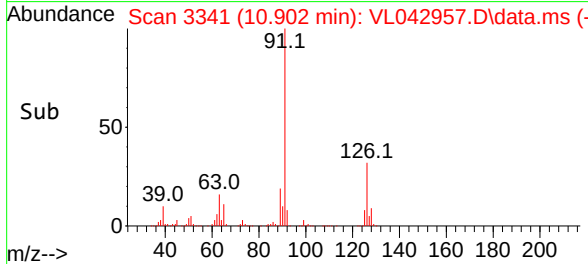
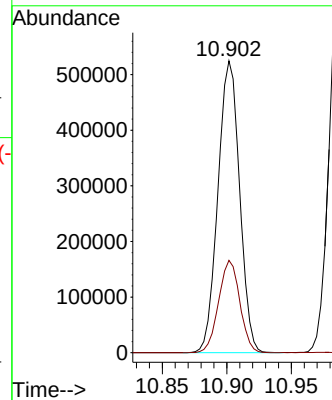
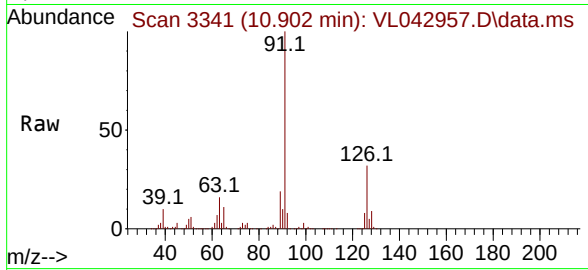




#71
2-Chlorotoluene
Concen: 9.315 ppbv
RT: 10.902 min Scan# 311
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

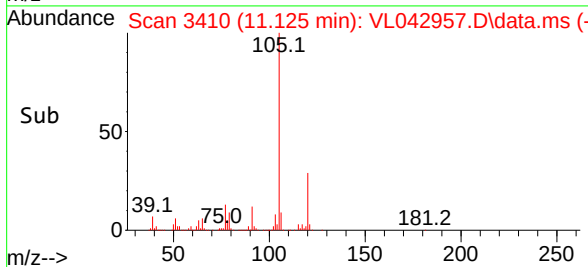
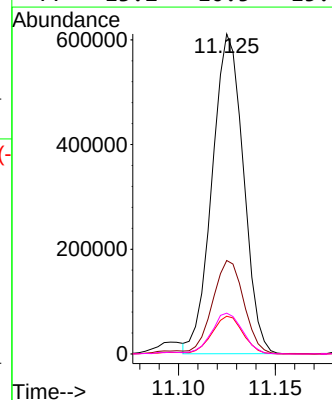
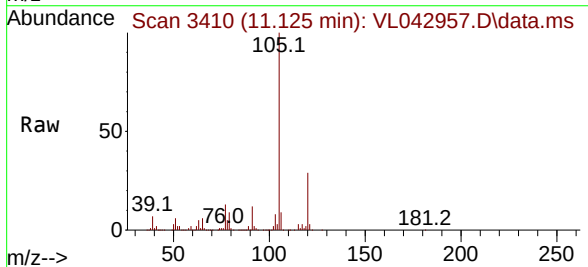
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

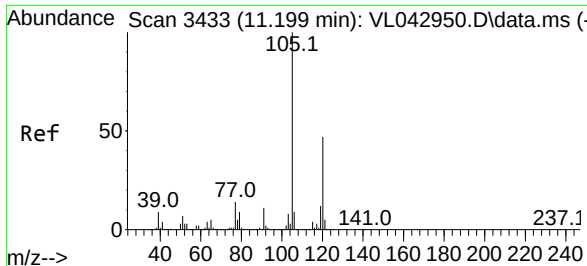
Tgt Ion: 91 Resp: 611697
Ion Ratio Lower Upper
91 100
126 30.9 12.3 49.3



#72
4-Ethyltoluene
Concen: 9.391 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion: 105 Resp: 686229
Ion Ratio Lower Upper
105 100
120 30.2 24.2 36.2
91 12.2 10.0 15.0
77 13.2 10.5 15.7

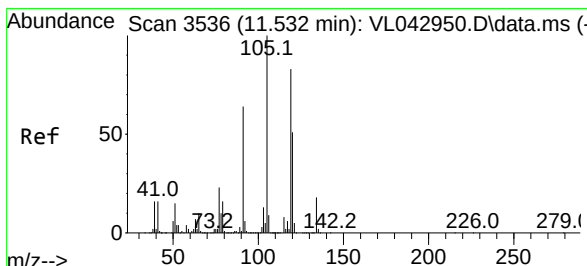
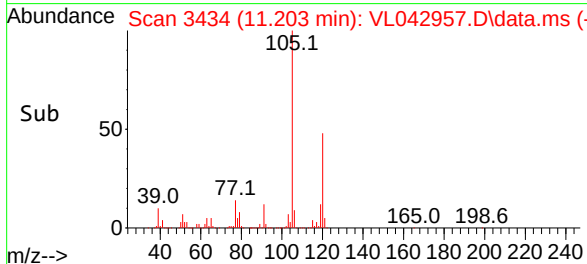
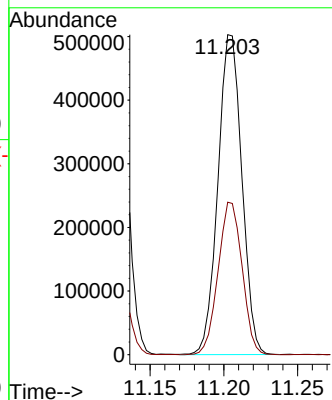
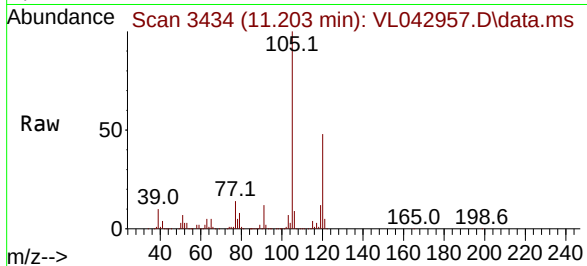




#73
1,3,5-Trimethylbenzene
Concen: 9.582 ppbv
RT: 11.203 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

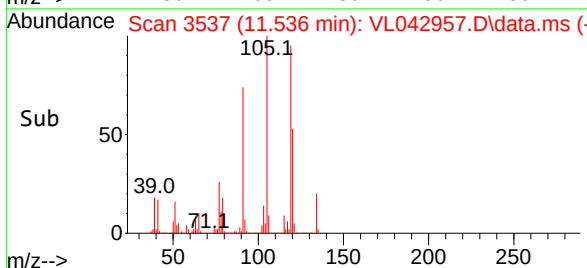
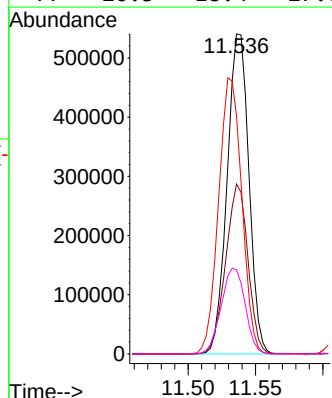
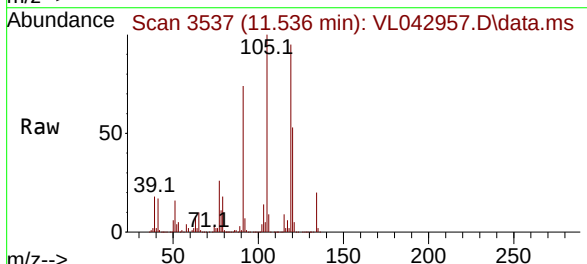
Instrument :
MSVOA_1
ClientSampleId :
ICVVL092225

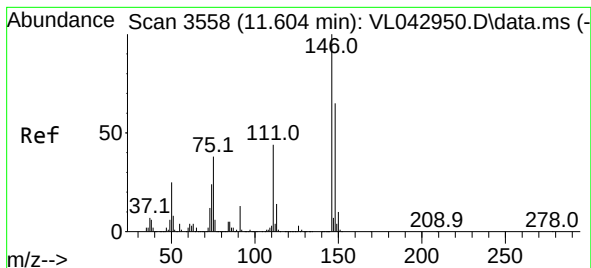
Tgt Ion:105 Resp: 567874
Ion Ratio Lower Upper
105 100
120 47.7 38.0 57.0



#74
1,2,4-Trimethylbenzene
Concen: 9.277 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion:105 Resp: 607159
Ion Ratio Lower Upper
105 100
120 53.1 40.9 61.3
91 74.4 51.2 76.8
77 26.3 18.4 27.6





#75

1,3-Dichlorobenzene

Concen: 9.382 ppbv

RT: 11.607 min Scan# 3558

Delta R.T. 0.003 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL092225

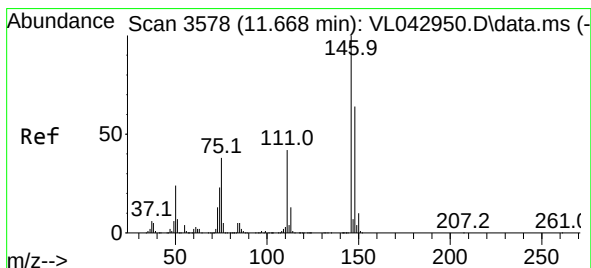
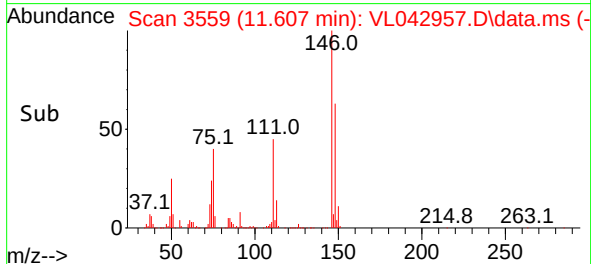
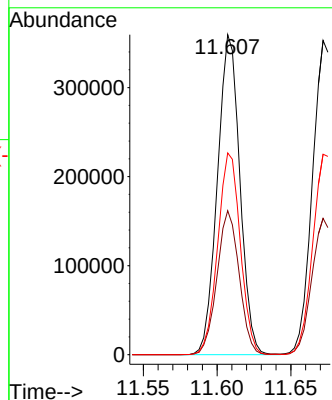
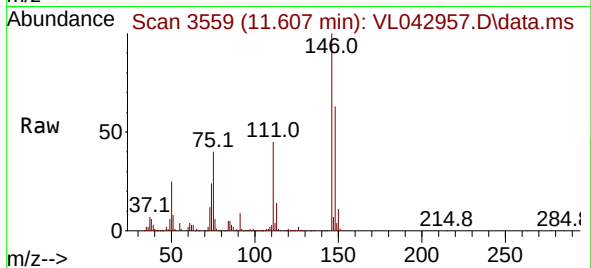
Tgt Ion:146 Resp: 380822

Ion Ratio Lower Upper

146 100

111 44.5 22.3 66.9

148 63.5 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 9.429 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.003 min

Lab File: VL042957.D

Acq: 22 Sep 2025 14:15

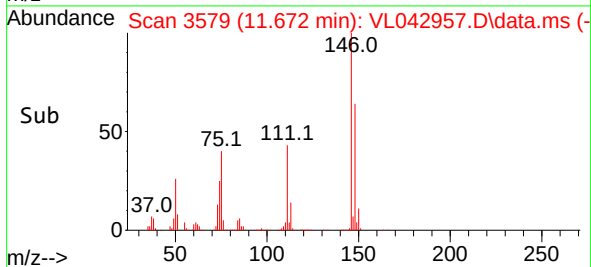
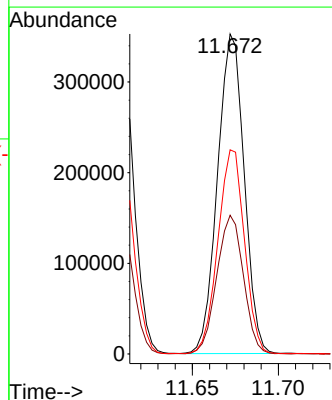
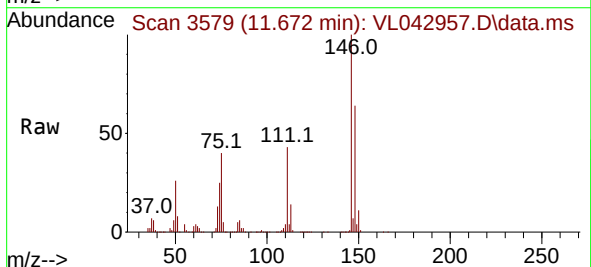
Tgt Ion:146 Resp: 380109

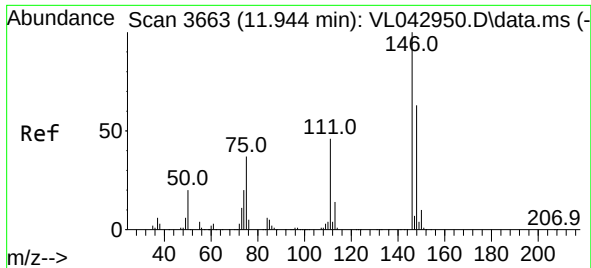
Ion Ratio Lower Upper

146 100

111 43.5 21.5 64.5

148 64.0 31.9 95.5

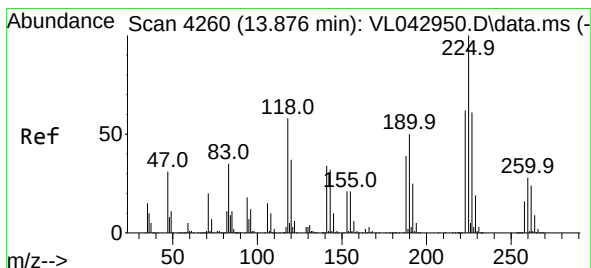
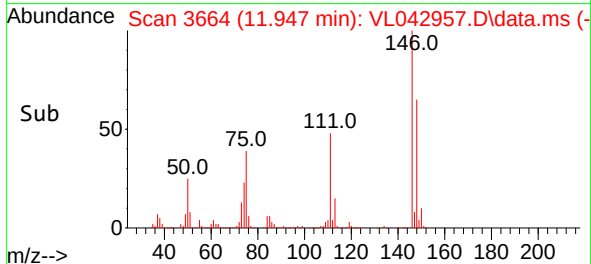
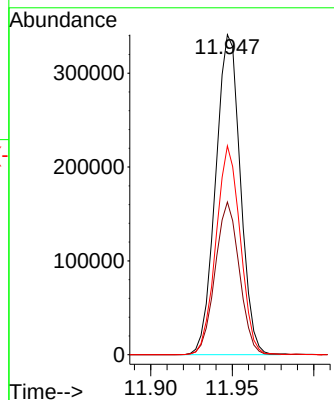
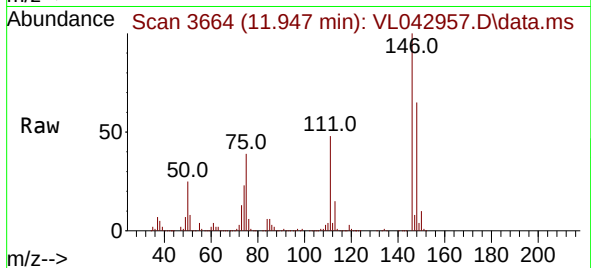




#77
1,2-Dichlorobenzene
Concen: 9.322 ppbv
RT: 11.947 min Scan# 3663
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

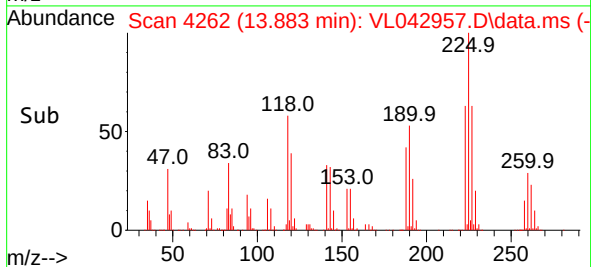
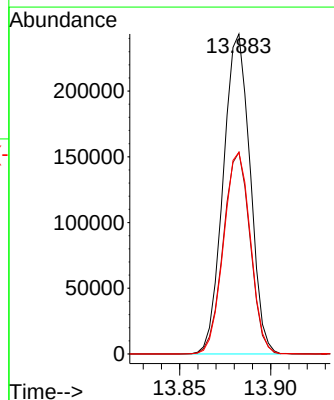
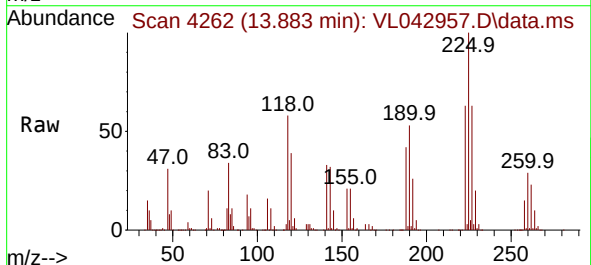
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

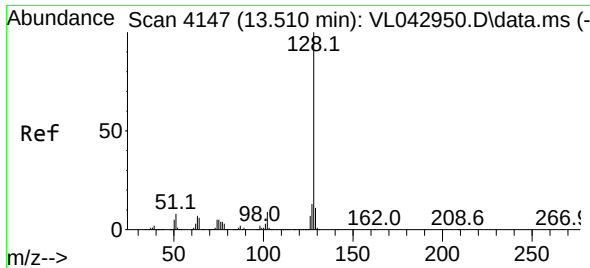
Tgt Ion:146 Resp: 359995
Ion Ratio Lower Upper
146 100
111 46.7 23.1 69.3
148 63.9 32.0 96.0



#78
Hexachloro-1,3-Butadiene
Concen: 8.248 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Tgt Ion:225 Resp: 249142
Ion Ratio Lower Upper
225 100
223 63.0 50.1 75.1
227 63.0 50.4 75.6

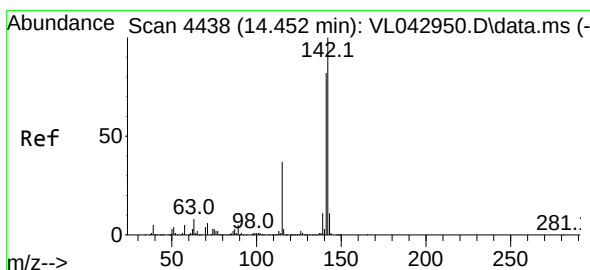
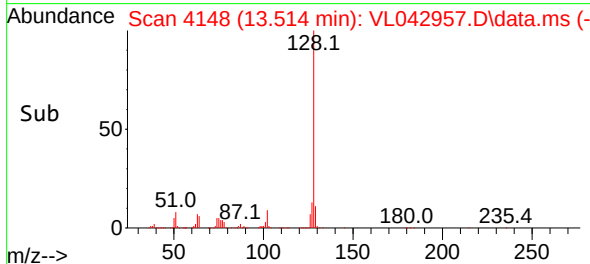
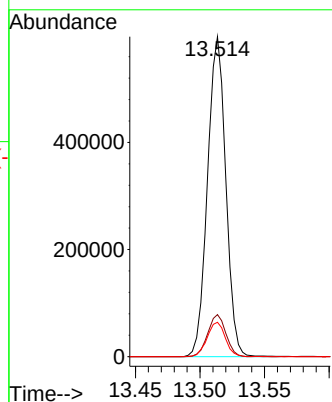
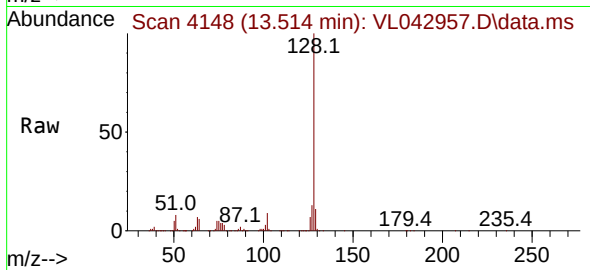




#79
Naphthalene
Concen: 10.208 ppbv
RT: 13.514 min Scan# 4147
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

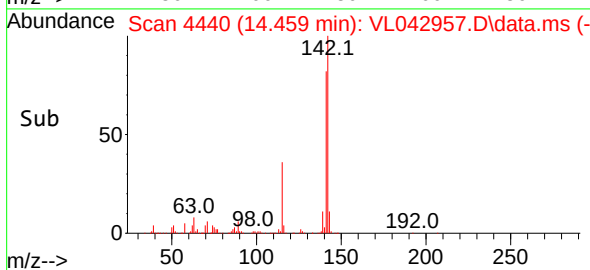
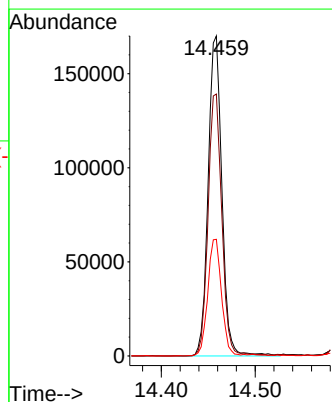
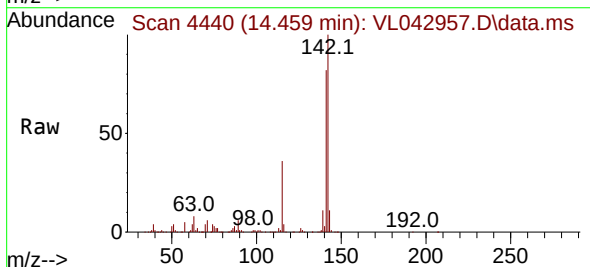
Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

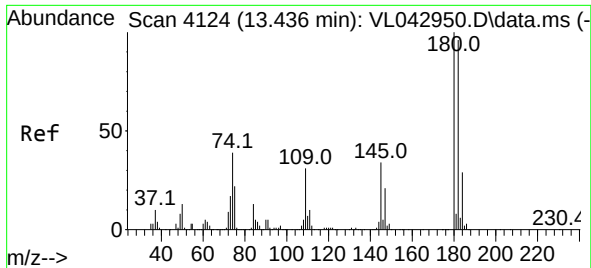
Tgt Ion:128 Resp: 590759
Ion Ratio Lower Upper
128 100
127 13.1 10.6 15.8
129 10.7 9.0 13.6



#80
Naphthalene,2-methyl-
Concen: 9.678 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.007 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

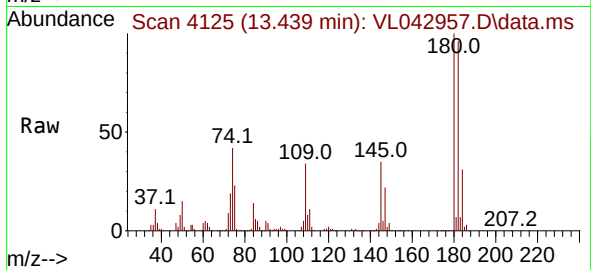
Tgt Ion:142 Resp: 173023
Ion Ratio Lower Upper
142 100
141 82.7 65.1 97.7
115 37.5 28.9 43.3



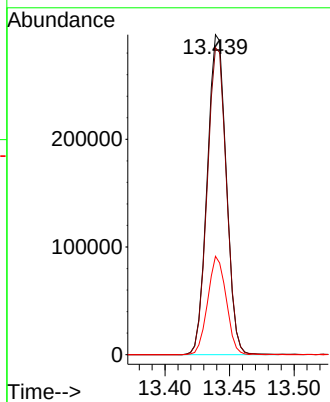
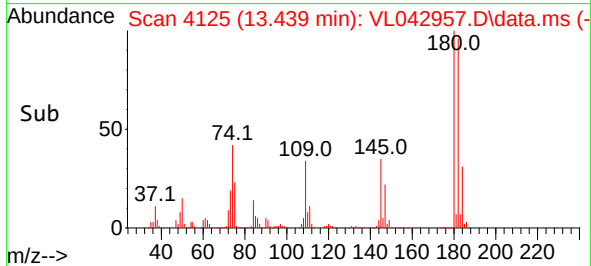


#81
1,2,4-Trichlorobenzene
Concen: 9.845 ppbv
RT: 13.439 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042957.D
Acq: 22 Sep 2025 14:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225



Tgt Ion:180 Resp: 304647
Ion Ratio Lower Upper
180 100
182 97.0 75.7 113.5
184 29.9 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042959.D
 Acq On : 22 Sep 2025 15:52
 Operator : SY/MD
 Sample : VL0922ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0922ABS01

Quant Time: Sep 23 02:50:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	157611	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	475789	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	440323	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	329520	10.025	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	196098	9.250	ppbv	98
3) Chlorodifluoromethane	1.476	51	241019	9.122	ppbv	98
4) Chloromethane	1.531	50	83097	8.660	ppbv	99
5) Vinyl Chloride	1.580	62	72910	8.405	ppbv	100
6) Bromomethane	1.667	94	25316	8.274	ppbv	96
7) Chloroethane	1.703	64	29696	8.816	ppbv	96
8) Dichlorotetrafluoroethane	1.554	85	162369	8.972	ppbv	99
9) Propene	1.483	41	99904	8.692	ppbv	96
10) Heptane	4.978	43	277314	9.040	ppbv	98
11) Trichlorofluoromethane	1.878	101	186968	9.147	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	149089	9.007	ppbv	98
13) Ethanol	1.719	45	7189	6.447	ppbv	97
14) Bromoethene	1.781	108	55444	8.860	ppbv	99
15) Acetone	1.836	43	151513	7.381	ppbv	98
16) 1,3-Butadiene	1.609	39	78310	8.087	ppbv	100
17) tert-Butyl alcohol	2.040	59	202608	8.999	ppbv	100
18) 1,1-Dichloroethene	2.033	96	68641	8.959	ppbv	98
19) Isopropyl Alcohol	1.884	45	106256	8.610	ppbv	100
20) Methylene Chloride	2.062	84	60096	9.806	ppbv	97
21) Allyl Chloride	2.095	41	129200	9.037	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	77254	8.874	ppbv	100
23) Vinyl Acetate	2.464	43	248190	8.463	ppbv	99
24) 1,1-Dichloroethane	2.409	63	154444	9.046	ppbv	99
25) Ethyl Acetate	2.833	43	477860	9.210	ppbv	99
26) Hexane	2.826	57	215902	9.129	ppbv	98
27) Carbon Disulfide	2.150	76	187493	8.839	ppbv	99
28) Methyl tert-Butyl Ether	2.438	73	95760	7.790	ppbv	99
29) Chloroform	2.849	83	295049	9.541	ppbv	99
30) Cyclohexane	3.855	84	184610	9.336	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	206747	9.332	ppbv	99
32) 1,1,1-Trichloroethane	3.367	97	301400	9.024	ppbv	99
34) 2-Butanone	2.557	43	308258	9.245	ppbv	99
35) Carbon Tetrachloride	3.762	117	299002	9.653	ppbv	98
36) Benzene	3.655	78	427346	9.565	ppbv	99
37) 1,2-Dichloroethane	3.218	62	233446	9.935	ppbv	99
38) Trichloroethene	4.548	130	204031	9.189	ppbv	96
39) 1,2-Dichloropropane	4.315	63	157775	9.673	ppbv	98
40) 1,4-Dioxane	4.584	88	70833	9.339	ppbv #	95
41) Tetrahydrofuran	3.053	42	177879	9.281	ppbv	99
42) Bromodichloromethane	4.490	83	324757	9.924	ppbv	94
43) Methyl Methacrylate	4.878	69	169093	9.250	ppbv	99
44) 2,2,4-Trimethylpentane	4.639	57	725943	9.407	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	185943	9.538	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042959.D
 Acq On : 22 Sep 2025 15:52
 Operator : SY/MD
 Sample : VL0922ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0922ABS01

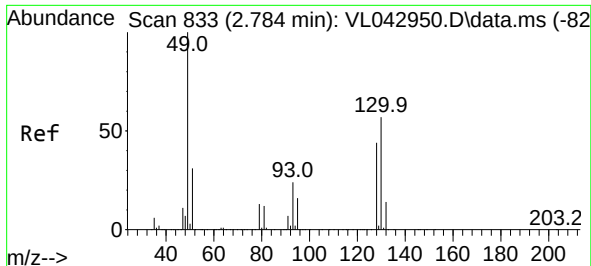
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	240185	9.667	ppbv	98
47) 1,1,2-Trichloroethane	6.581	97	165106	9.580	ppbv	97
48) Dibromochloromethane	7.387	129	275781	10.002	ppbv	99
49) Bromoform	9.484	173	235060	9.800	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	431031	9.645	ppbv	99
51) 2-Hexanone	7.435	43	343461	9.641	ppbv	100
52) Tetrachloroethene	8.228	164	150483	8.705	ppbv	97
53) Toluene	6.933	91	501548	9.484	ppbv	100
54) 1,2-Dibromoethane	7.652	107	235389	9.704	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	200560	9.516	ppbv	98
57) Chlorobenzene	8.924	112	377524	9.392	ppbv	97
58) Ethyl Benzene	9.354	91	686057	9.489	ppbv	99
59) m/p-Xylene	9.532	91	564158	9.897	ppbv #	100
60) o-Xylene	9.966	91	537008	9.426	ppbv	100
61) Styrene	9.872	104	258756	9.602	ppbv	98
62) Isopropylbenzene	10.539	105	787602	9.274	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	266223	8.890	ppbv	100
64) n-propylbenzene	10.989	120	208358	9.389	ppbv	100
65) tert-Butylbenzene	11.533	119	694033	9.188	ppbv	99
66) Benzyl Chloride	11.617	91	64955	8.196	ppbv	99
67) sec-Butylbenzene	11.769	105	974750	9.261	ppbv	99
69) p-Isopropyltoluene	11.924	119	820532	9.229	ppbv	99
70) n-Butylbenzene	12.280	91	818866	9.434	ppbv	100
71) 2-Chlorotoluene	10.902	91	598619	9.336	ppbv	100
72) 4-Ethyltoluene	11.125	105	665916	9.332	ppbv	100
73) 1,3,5-Trimethylbenzene	11.206	105	552039	9.539	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	592889	9.277	ppbv	95
75) 1,3-Dichlorobenzene	11.607	146	368544	9.299	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	369921	9.397	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	350261	9.288	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	246743	8.366	ppbv	99
79) Naphthalene	13.514	128	579760	10.259	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	167256	9.581	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	300876	9.958	ppbv	99

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

Quant Time: Sep 23 02:50:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

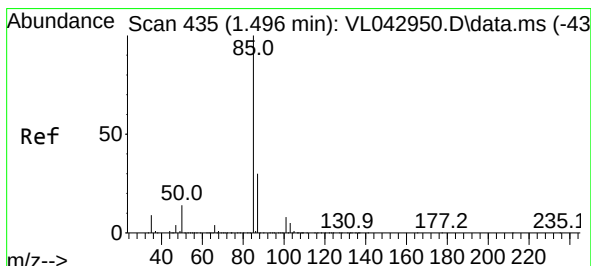
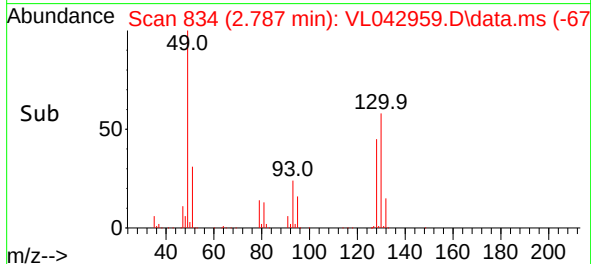
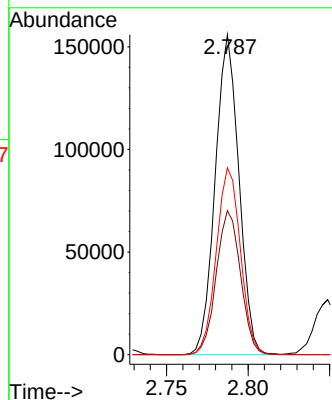
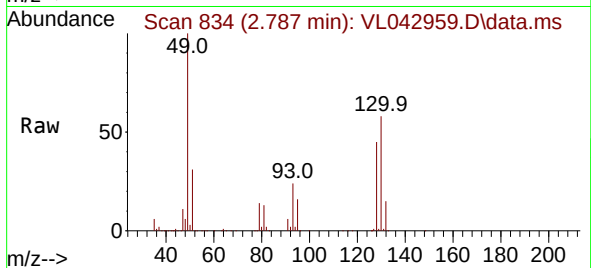




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

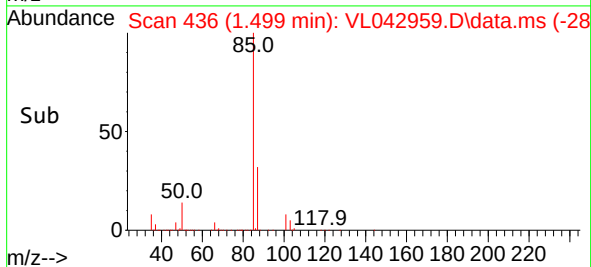
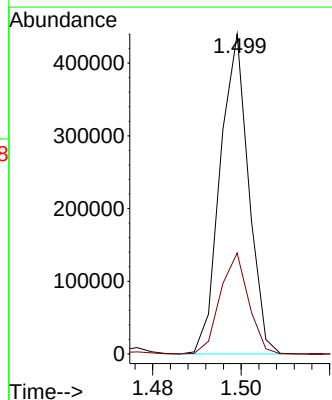
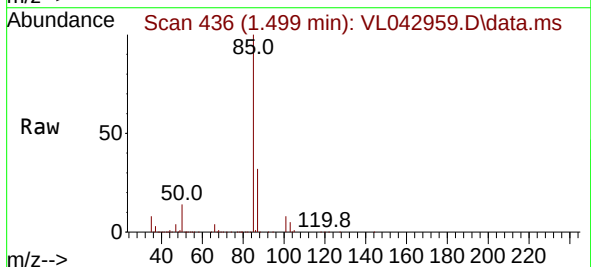
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01

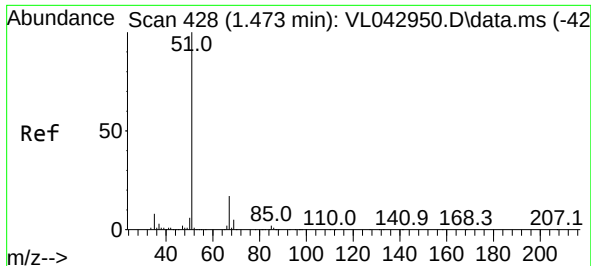
Tgt Ion: 49 Resp: 157611
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.8
130 59.3 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 9.250 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 85 Resp: 196098
Ion Ratio Lower Upper
85 100
87 31.5 24.3 36.5

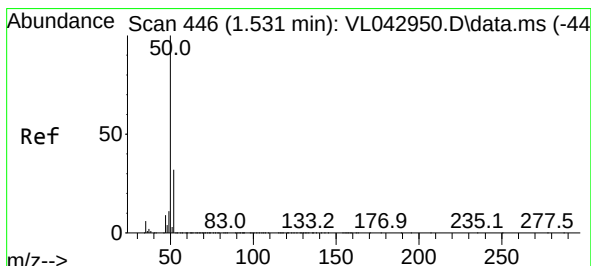
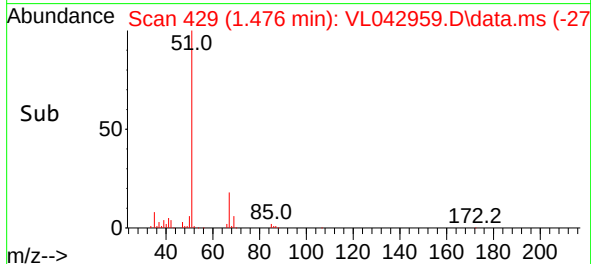
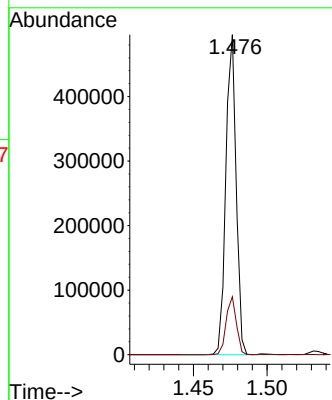
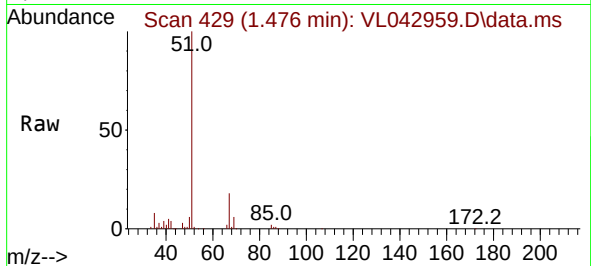




#3
Chlorodifluoromethane
Concen: 9.122 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

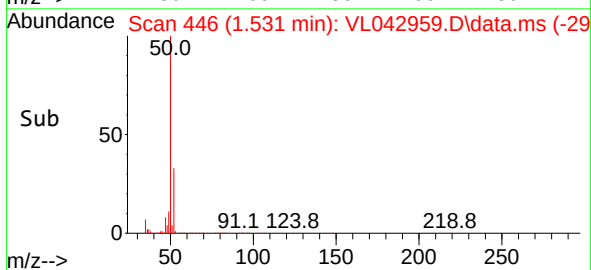
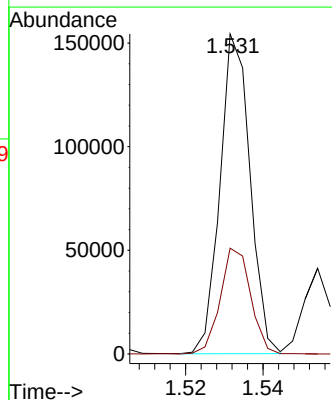
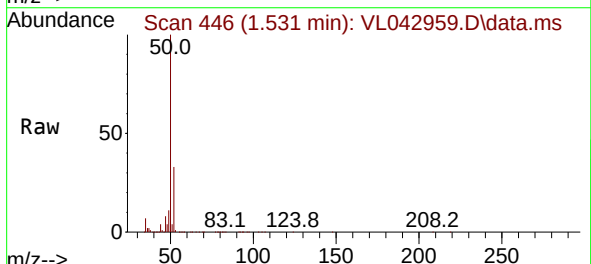
Instrument :
MSVOA_L
ClientSampleId :
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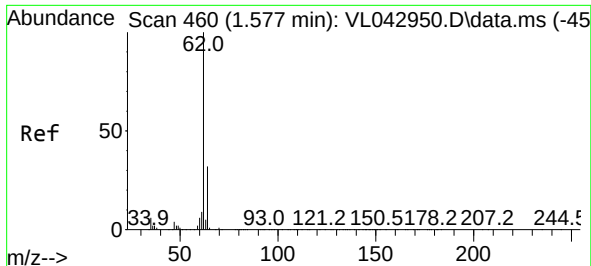
Tgt Ion: 51 Resp: 241019
Ion Ratio Lower Upper
51 100
67 18.1 13.8 20.8



#4
Chloromethane
Concen: 8.660 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 50 Resp: 83097
Ion Ratio Lower Upper
50 100
52 33.0 25.9 38.9

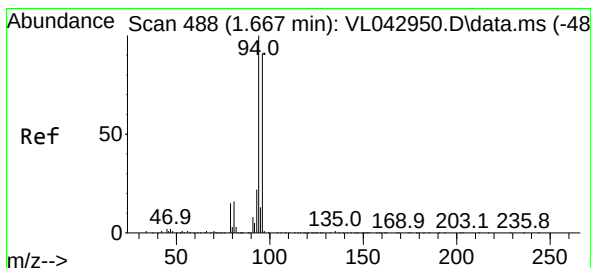
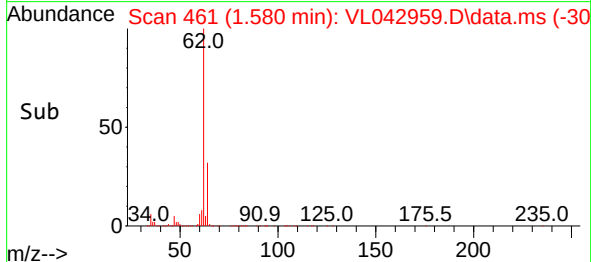
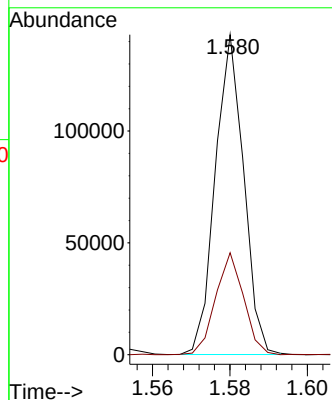
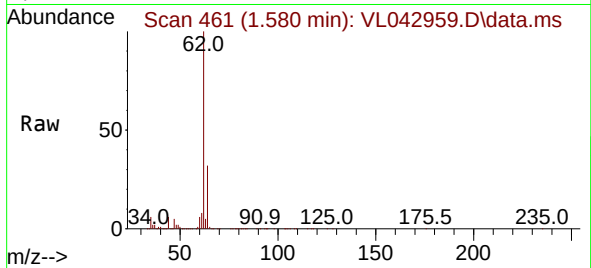




#5
 Vinyl Chloride
 Concen: 8.405 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

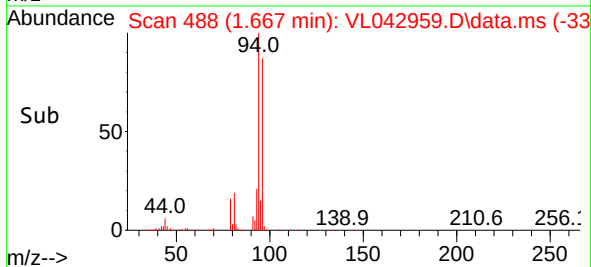
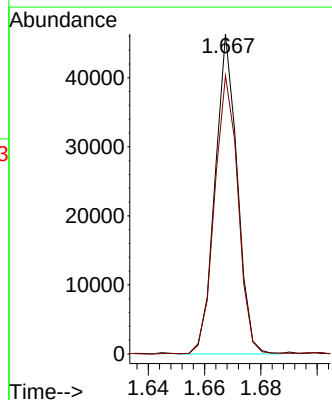
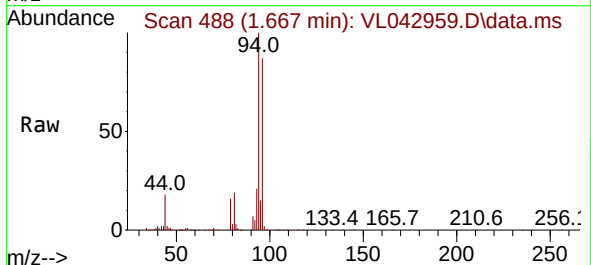
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0922ABS01

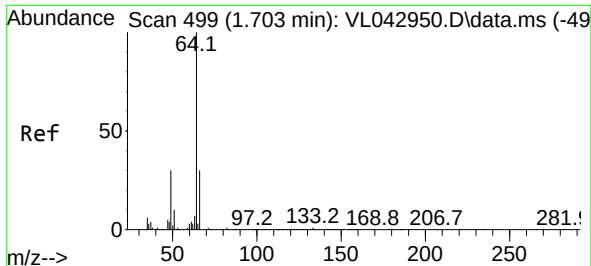
Tgt Ion: 62 Resp: 72910
 Ion Ratio Lower Upper
 62 100
 64 31.9 25.4 38.2



#6
 Bromomethane
 Concen: 8.274 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

Tgt Ion: 94 Resp: 25316
 Ion Ratio Lower Upper
 94 100
 96 86.9 72.6 108.8

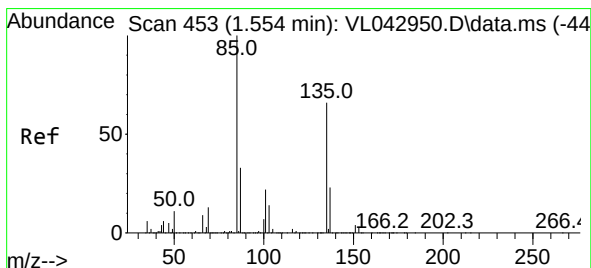
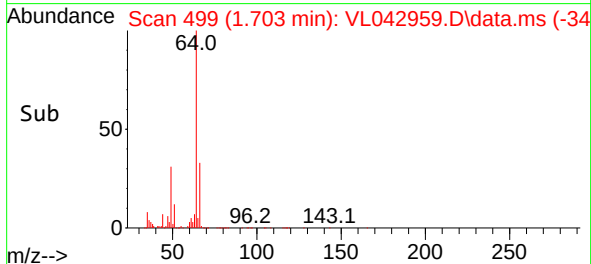
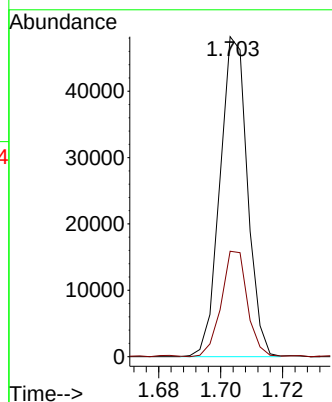
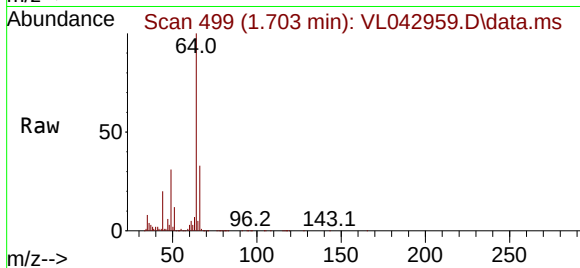




#7
Chloroethane
Concen: 8.816 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

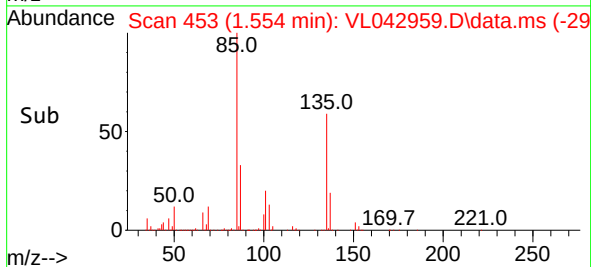
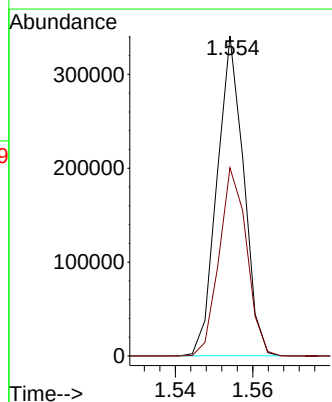
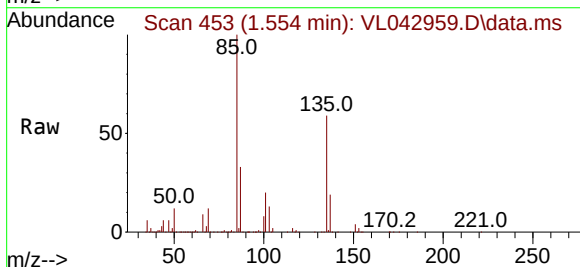
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01

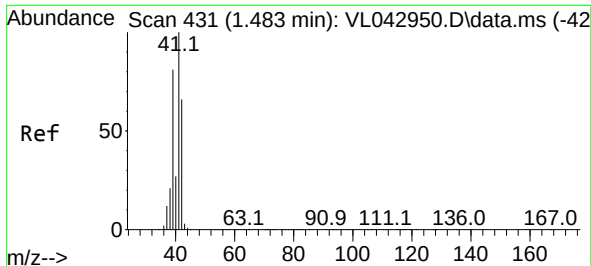
Tgt Ion: 64 Resp: 29696
Ion Ratio Lower Upper
64 100
66 32.9 24.6 36.8



#8
Dichlorotetrafluoroethane
Concen: 8.972 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 85 Resp: 162369
Ion Ratio Lower Upper
85 100
135 61.3 49.7 74.5





#9

Propene

Concen: 8.692 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

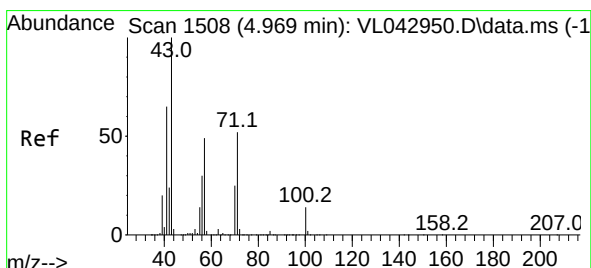
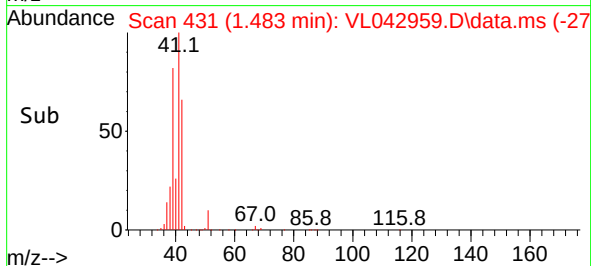
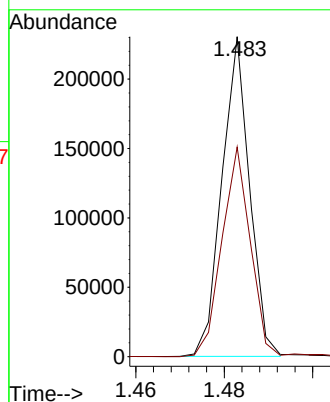
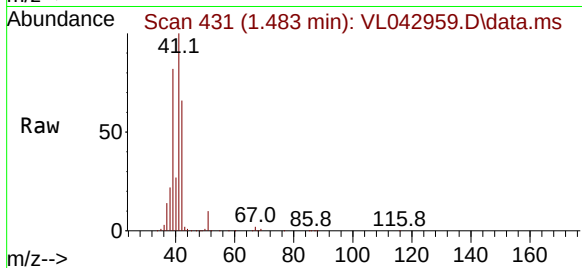
VL0922ABS01

Tgt Ion: 41 Resp: 99904

Ion Ratio Lower Upper

41 100

42 68.7 57.4 86.2



#10

Heptane

Concen: 9.040 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.010 min

Lab File: VL042959.D

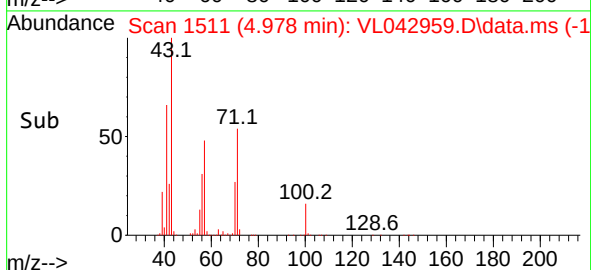
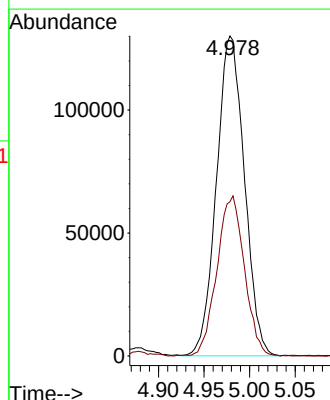
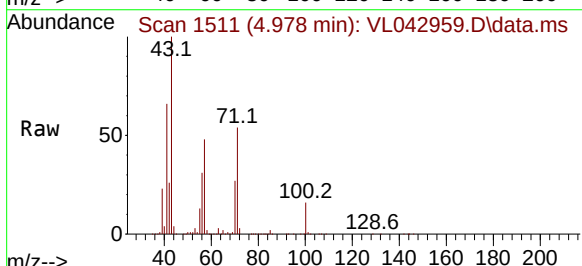
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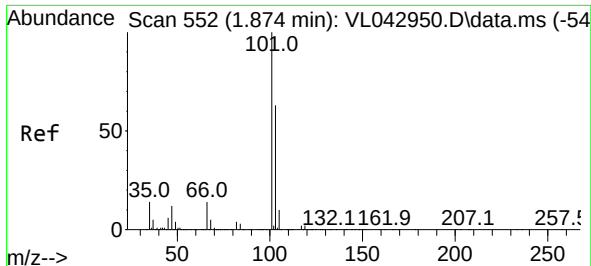
Tgt Ion: 43 Resp: 277314

Ion Ratio Lower Upper

43 100

57 49.3 38.6 57.8

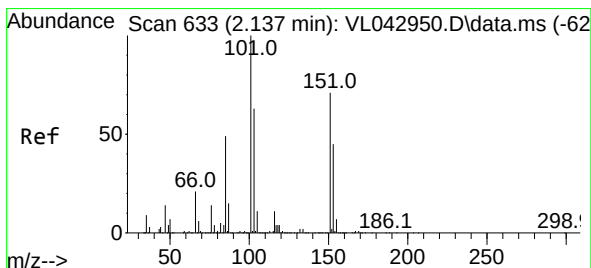
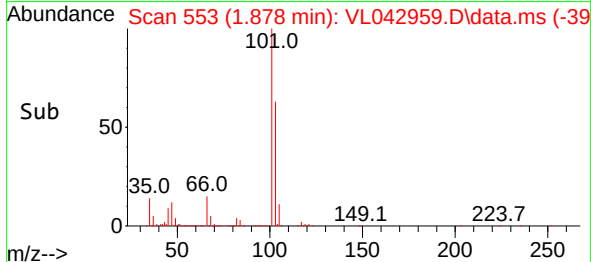
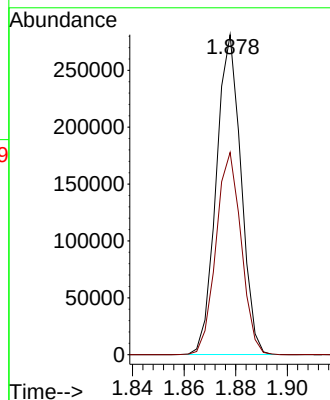
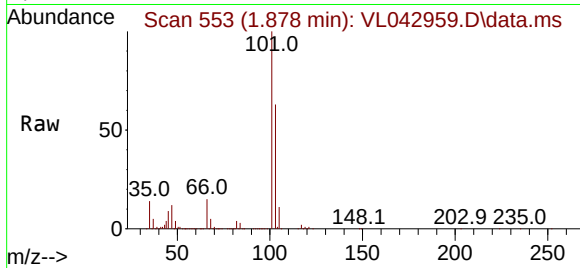




#11
Trichlorofluoromethane
Concen: 9.147 ppbv
RT: 1.878 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

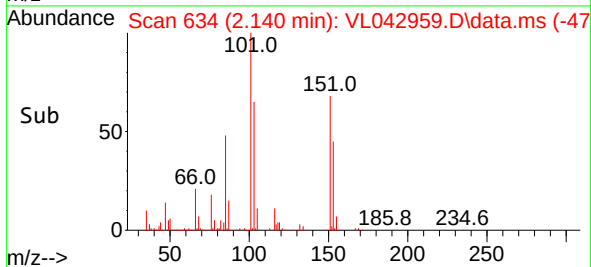
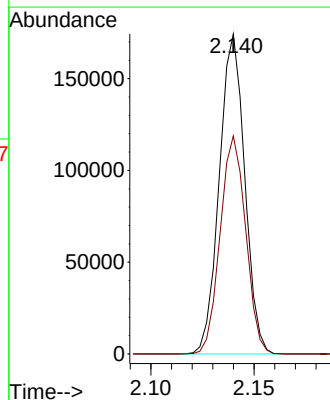
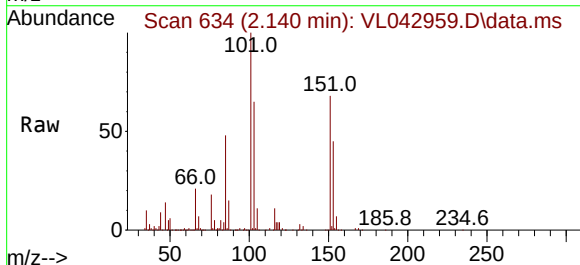
Instrument :
MSVOA_1
ClientSampleId :
VL0922ABS01

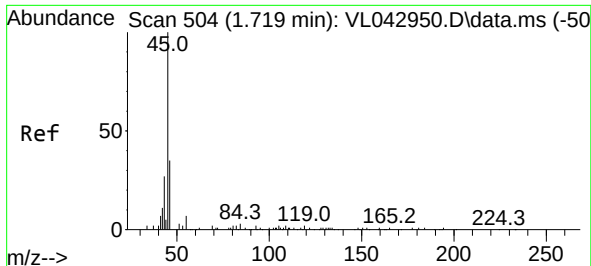
Tgt Ion:101 Resp: 186968
Ion Ratio Lower Upper
101 100
103 63.2 50.1 75.1



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.007 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion:101 Resp: 149089
Ion Ratio Lower Upper
101 100
151 68.3 55.7 83.5

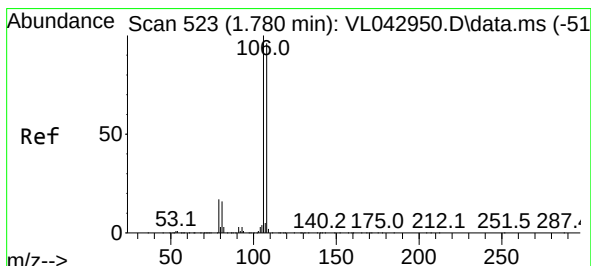
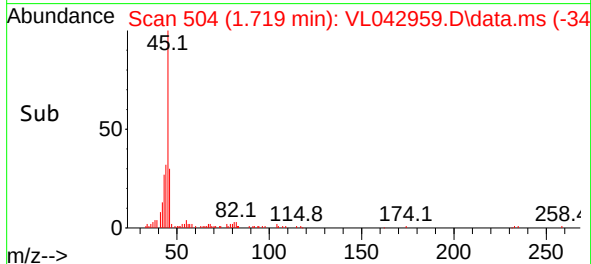
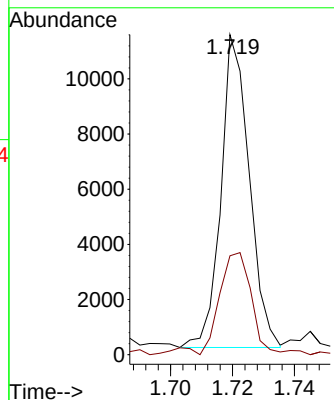
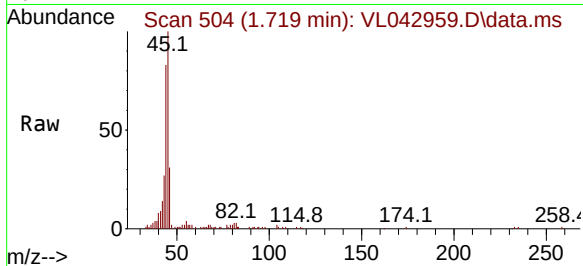




#13
Ethanol
Concen: 6.447 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

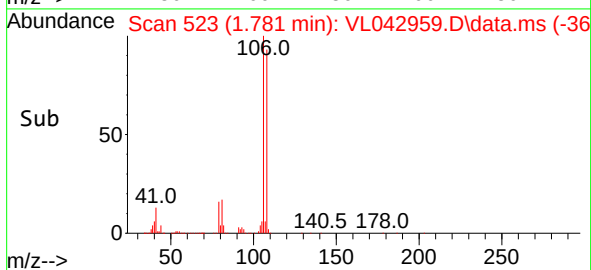
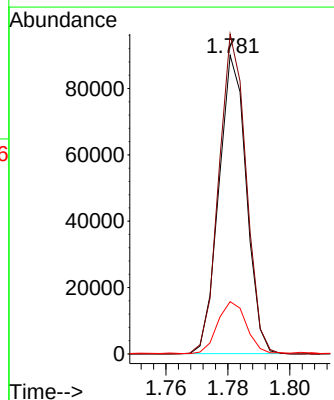
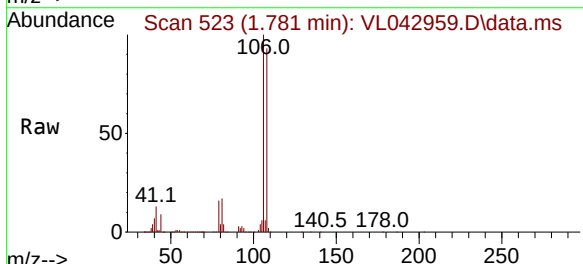
Instrument :
MSVOA_1
ClientSampleId :
VL0922ABS01

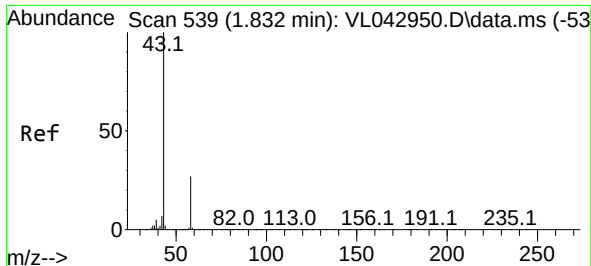
Tgt Ion: 45 Resp: 7189
Ion Ratio Lower Upper
45 100
46 38.5 16.2 64.6



#14
Bromoethene
Concen: 8.860 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 108 Resp: 55444
Ion Ratio Lower Upper
108 100
106 106.5 86.0 129.0
79 18.9 14.2 21.2

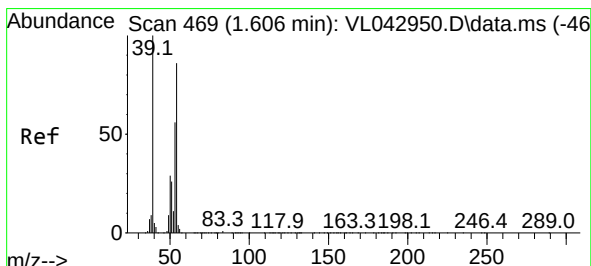
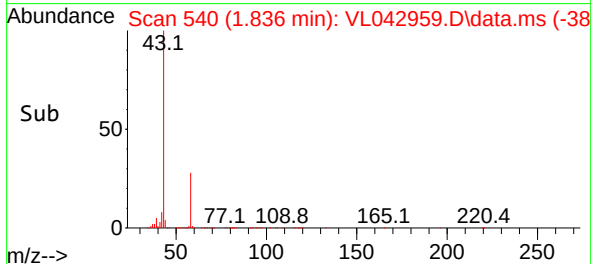
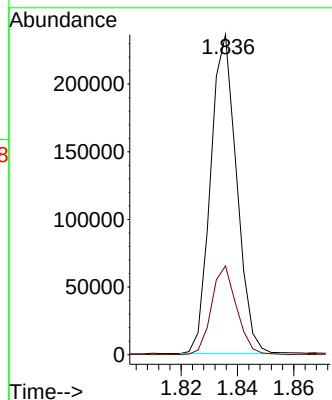
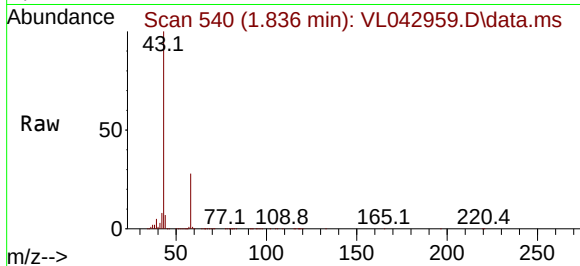




#15
Acetone
Concen: 7.381 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

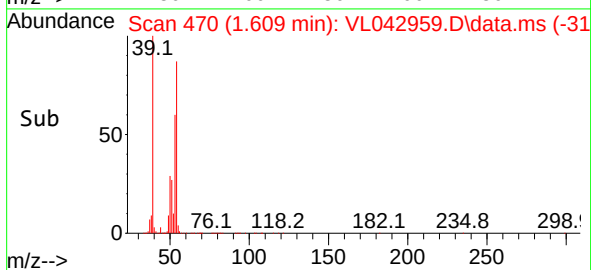
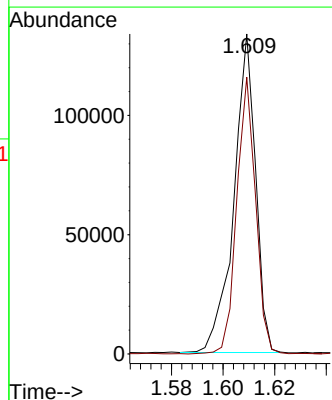
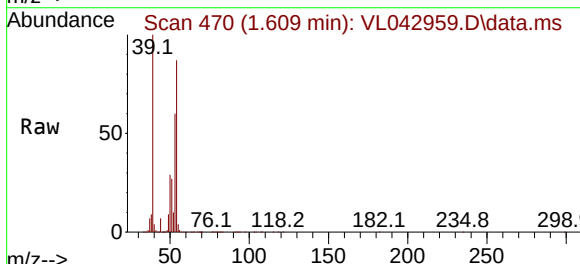
Instrument :
MSVOA_1
ClientSampleId :
VL0922ABS01

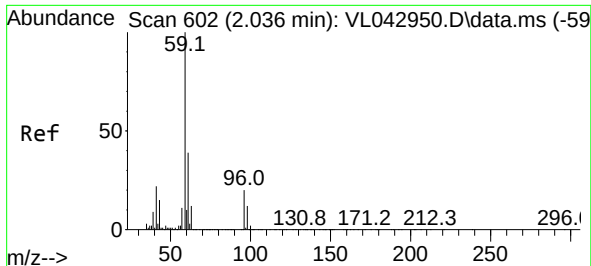
Tgt Ion: 43 Resp: 151513
Ion Ratio Lower Upper
43 100
58 27.0 22.3 33.5



#16
1,3-Butadiene
Concen: 8.087 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 39 Resp: 78310
Ion Ratio Lower Upper
39 100
54 76.4 60.8 91.2





#17

tert-Butyl alcohol

Concen: 8.999 ppbv

RT: 2.040 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

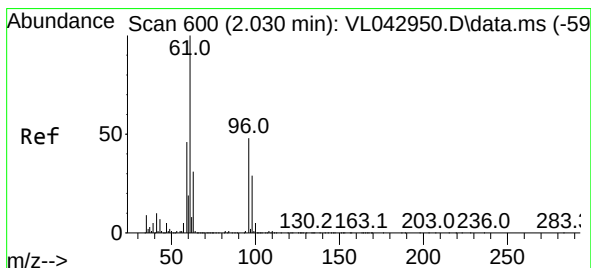
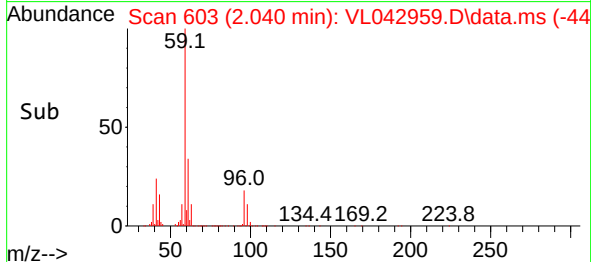
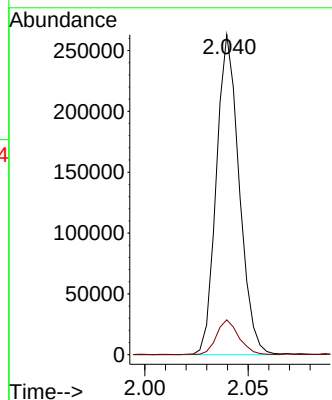
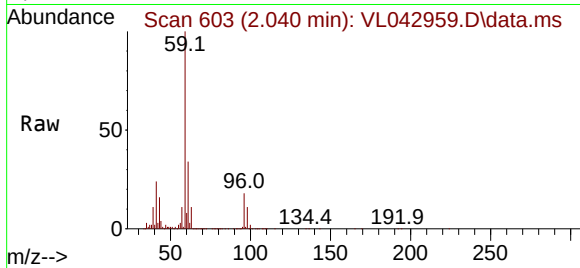
VL0922ABS01

Tgt Ion: 59 Resp: 202608

Ion Ratio Lower Upper

59 100

57 10.8 8.6 12.8



#18

1,1-Dichloroethene

Concen: 8.959 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

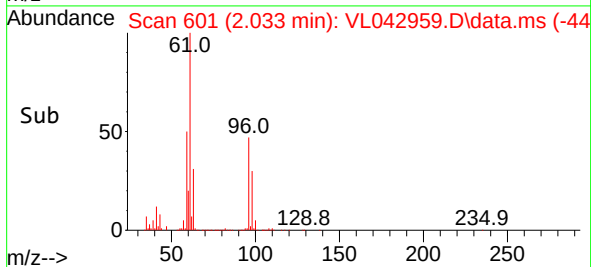
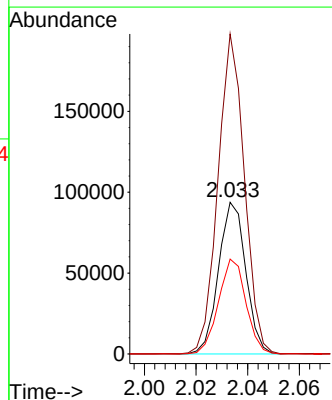
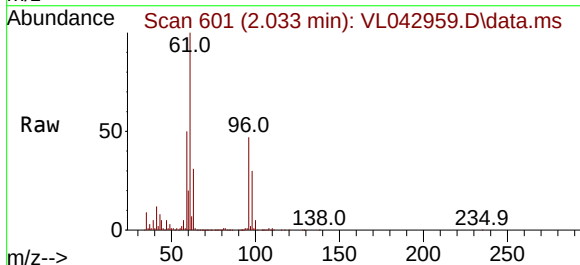
Tgt Ion: 96 Resp: 68641

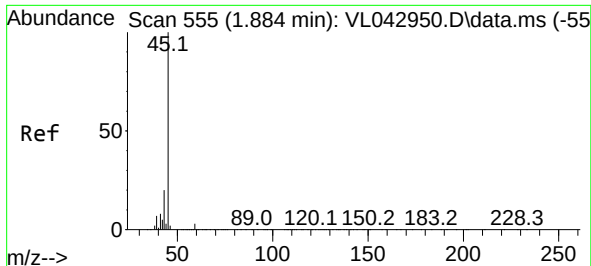
Ion Ratio Lower Upper

96 100

61 211.1 166.2 249.4

98 62.6 48.6 73.0

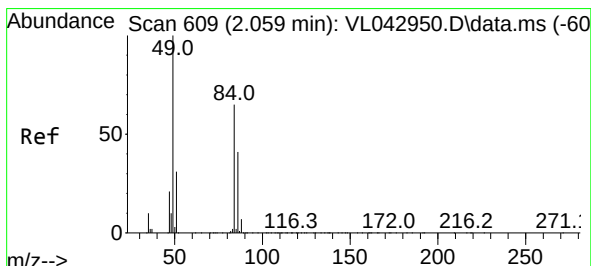
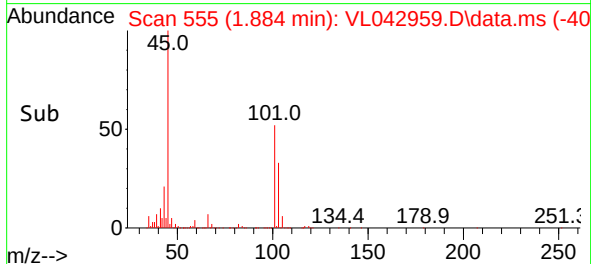
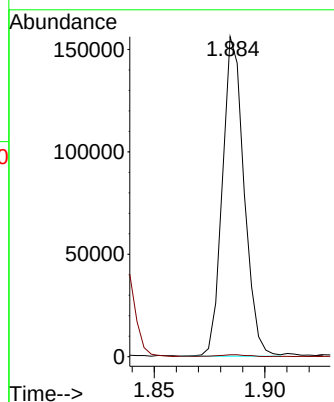
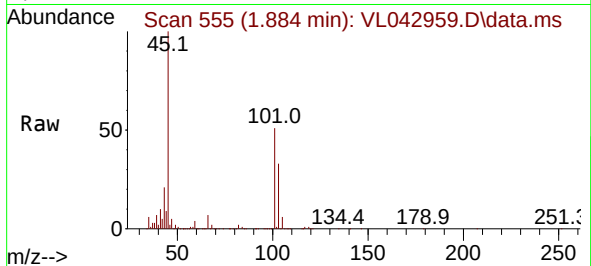




#19
Isopropyl Alcohol
Concen: 8.610 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

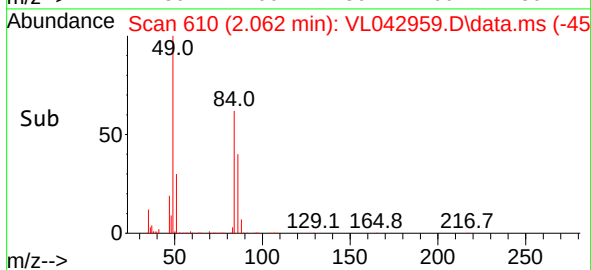
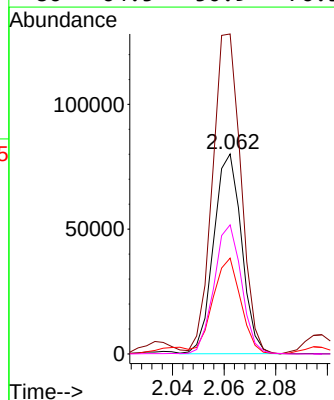
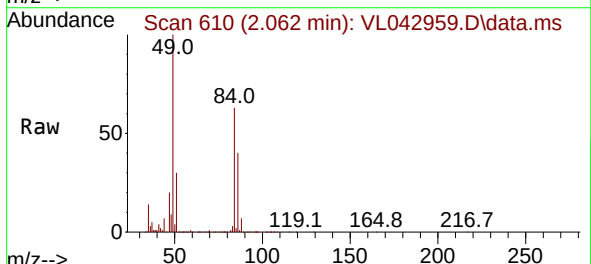
Instrument :
MSVOA_1
ClientSampleId :
VL0922ABS01

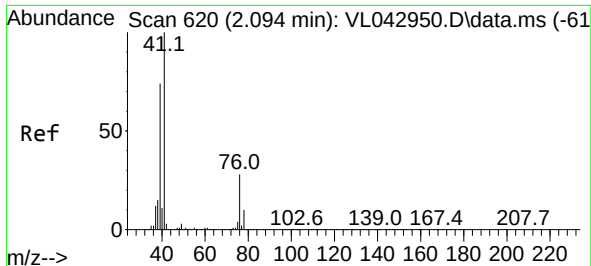
Tgt Ion: 45 Resp: 106256
Ion Ratio Lower Upper
45 100
58 38.8 31.0 46.6



#20
Methylene Chloride
Concen: 9.806 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 84 Resp: 60096
Ion Ratio Lower Upper
84 100
49 160.2 124.1 186.1
51 47.7 39.8 59.8
86 64.5 50.9 76.3





#21

Allyl Chloride

Concen: 9.037 ppbv

RT: 2.095 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

VL0922ABS01

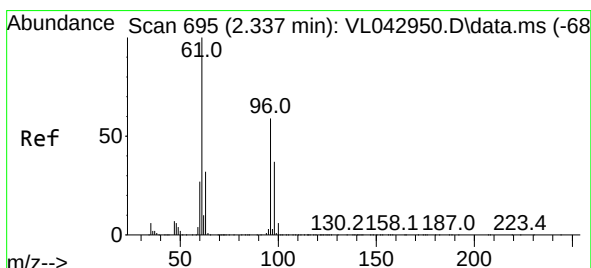
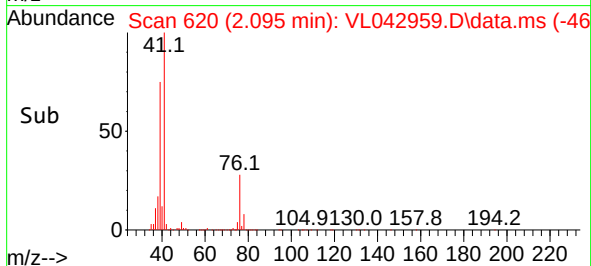
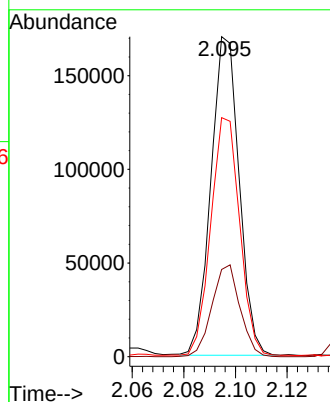
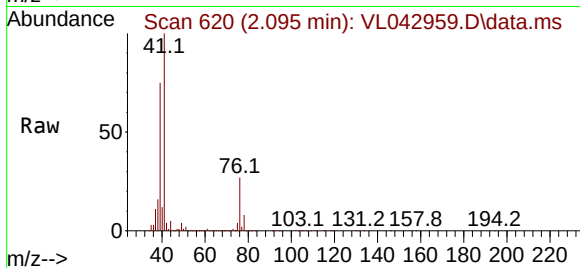
Tgt Ion: 41 Resp: 129200

Ion Ratio Lower Upper

41 100

76 28.6 22.3 33.5

39 76.2 61.3 91.9



#22

trans-1,2-Dichloroethene

Concen: 8.874 ppbv

RT: 2.341 min Scan# 696

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

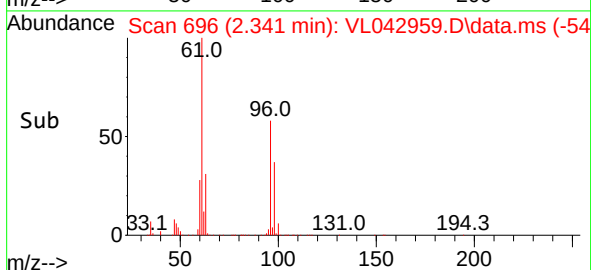
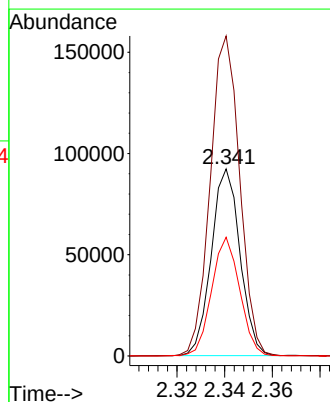
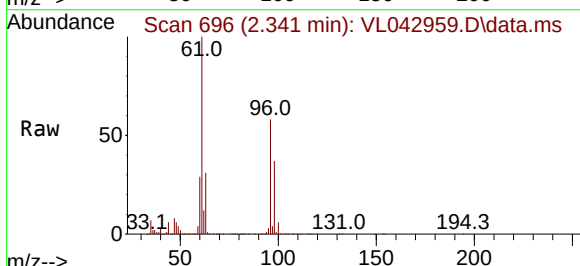
Tgt Ion: 96 Resp: 77254

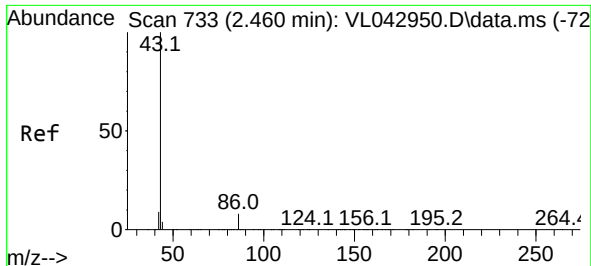
Ion Ratio Lower Upper

96 100

61 171.2 136.5 204.7

98 63.4 50.6 76.0



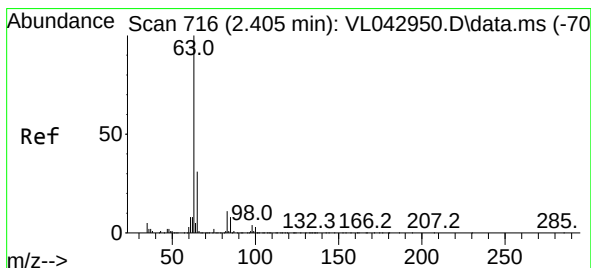
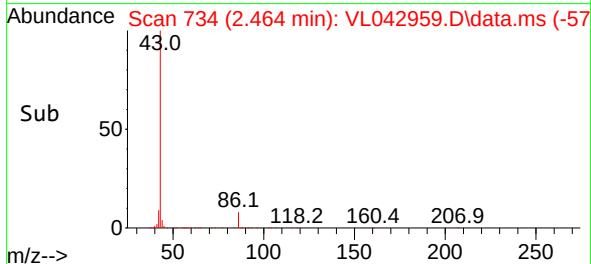
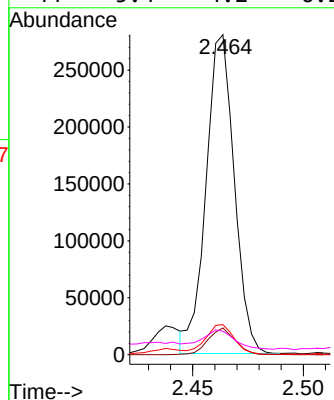
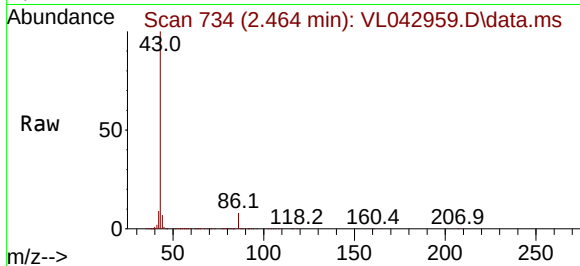


#23
 Vinyl Acetate
 Concen: 8.463 ppbv
 RT: 2.464 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

Instrument :
 MSVOA_1
 ClientSampleId :
 VL0922ABS01

Tgt Ion: 43 Resp: 248190

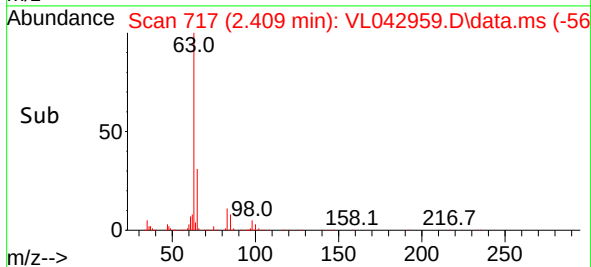
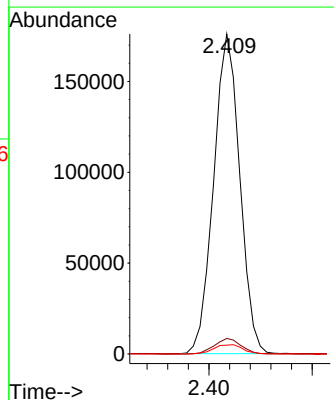
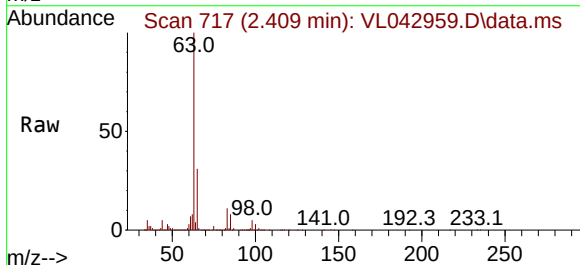
Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.2	9.2
42	9.3	7.4	11.0
44	5.4	4.2	6.2

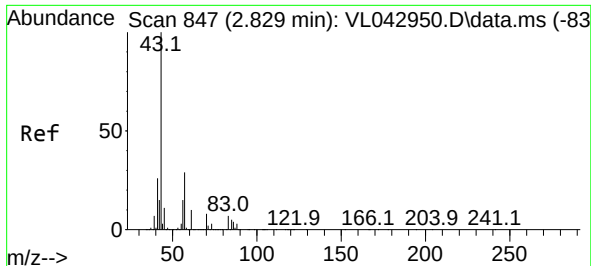


#24
 1,1-Dichloroethane
 Concen: 9.046 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

Tgt Ion: 63 Resp: 154444

Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.2	6.6
100	2.7	1.4	4.0

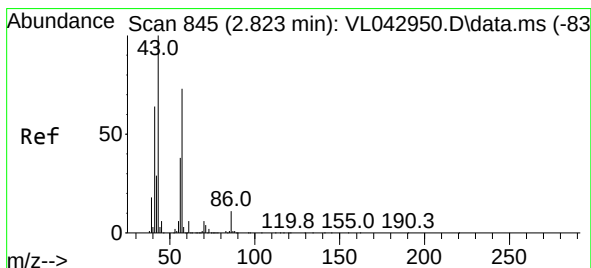
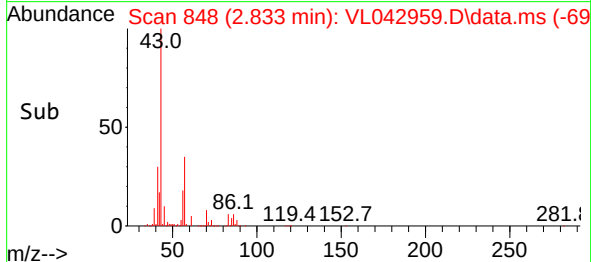
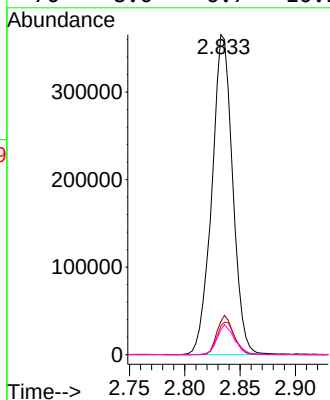
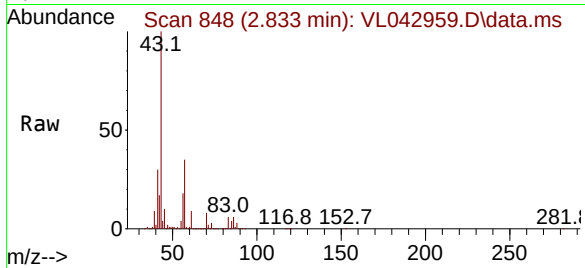




#25
Ethyl Acetate
Concen: 9.210 ppbv
RT: 2.833 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

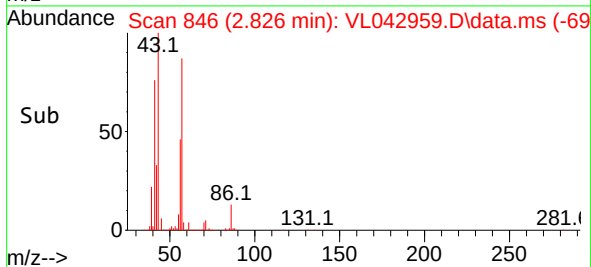
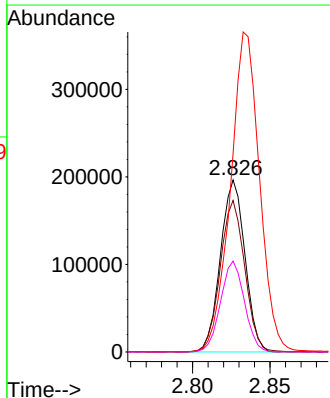
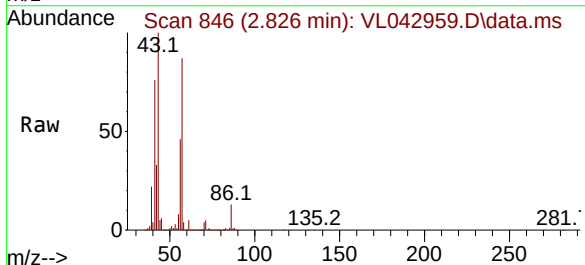
Instrument :
MSVOA_1
ClientSampleId :
VL0922ABS01

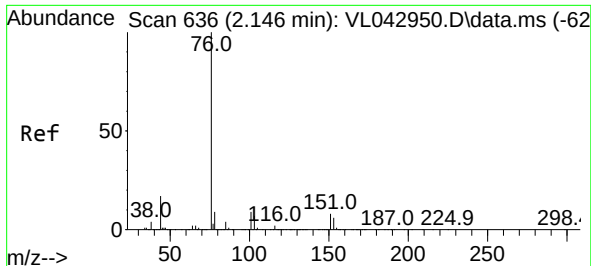
Tgt Ion: 43 Resp: 477860
Ion Ratio Lower Upper
43 100
45 9.8 7.7 11.5
61 8.7 7.1 10.7
70 8.0 6.7 10.1



#26
Hexane
Concen: 9.129 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 57 Resp: 215902
Ion Ratio Lower Upper
57 100
41 89.1 71.7 107.5
43 221.9 180.8 271.2
56 51.6 41.4 62.0

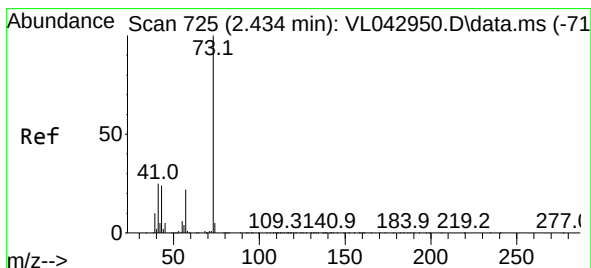
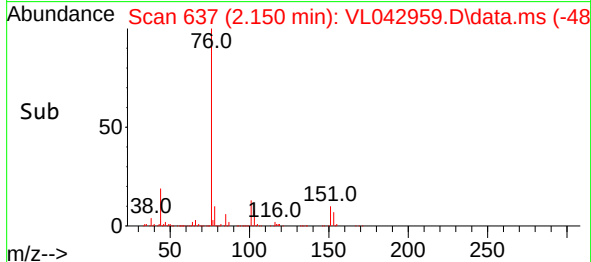
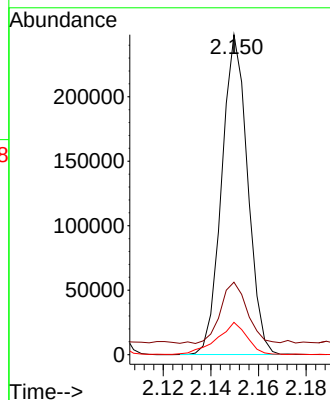
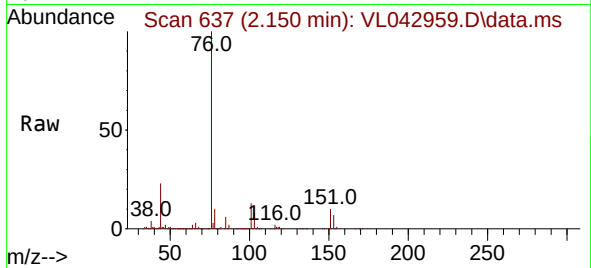




#27
Carbon Disulfide
Concen: 8.839 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

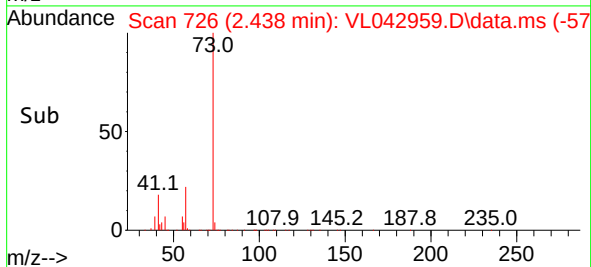
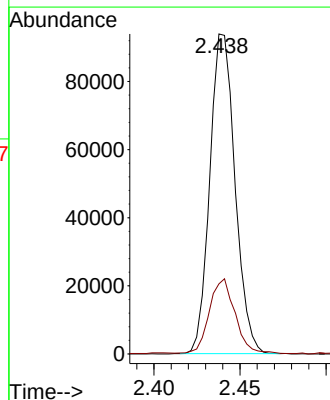
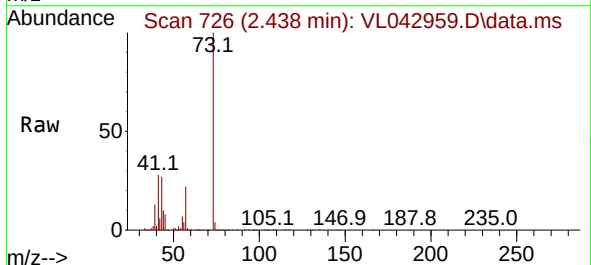
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01

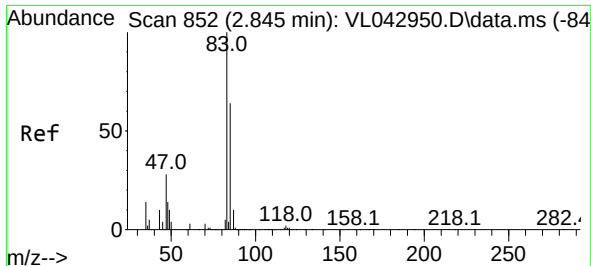
Tgt Ion: 76 Resp: 187493
Ion Ratio Lower Upper
76 100
44 20.1 15.6 23.4
78 11.6 8.9 13.3



#28
Methyl tert-Butyl Ether
Concen: 7.790 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 73 Resp: 95760
Ion Ratio Lower Upper
73 100
57 25.1 20.6 31.0





#29

Chloroform

Concen: 9.541 ppbv

RT: 2.849 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

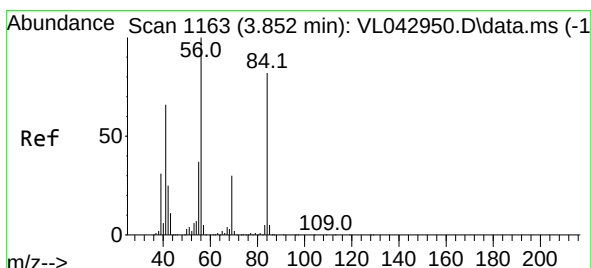
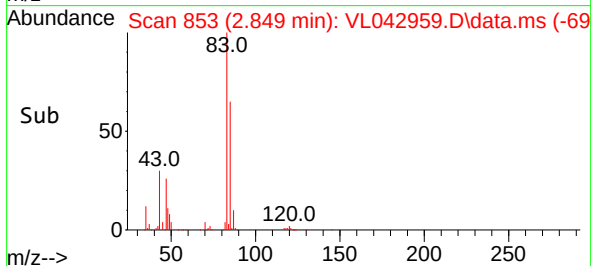
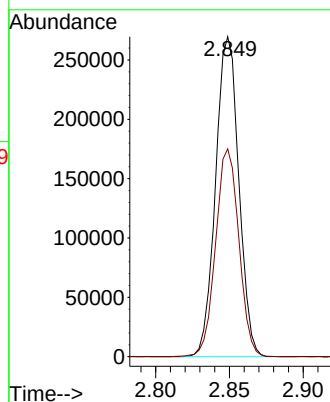
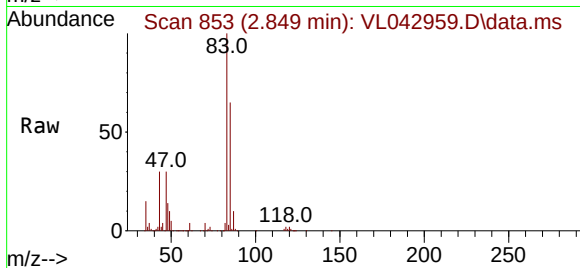
VL0922ABS01

Tgt Ion: 83 Resp: 295049

Ion Ratio Lower Upper

83 100

85 64.9 51.2 76.8



#30

Cyclohexane

Concen: 9.336 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

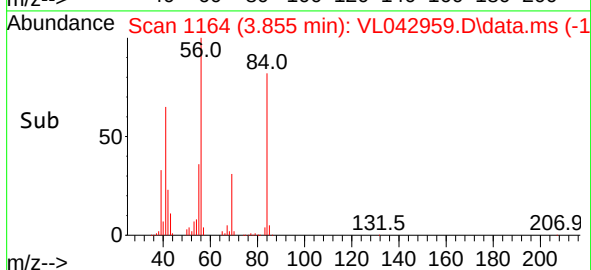
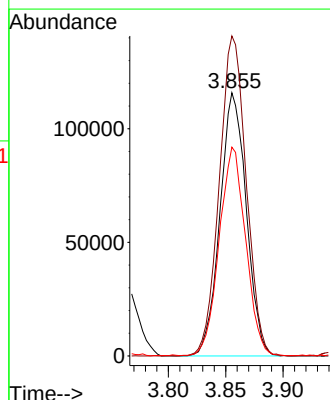
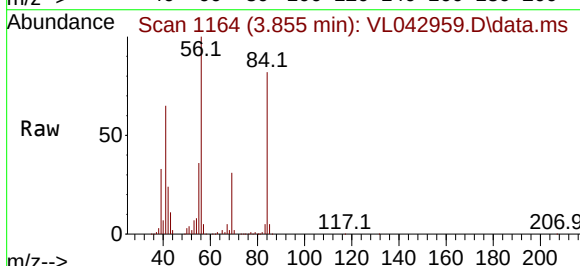
Tgt Ion: 84 Resp: 184610

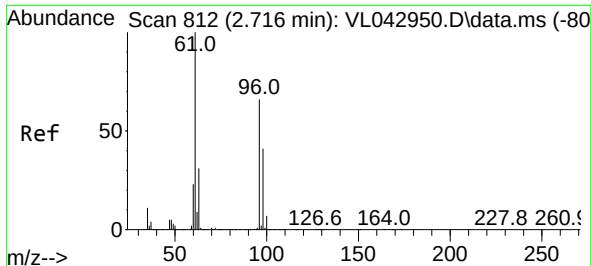
Ion Ratio Lower Upper

84 100

56 124.4 102.2 153.4

41 80.1 65.6 98.4

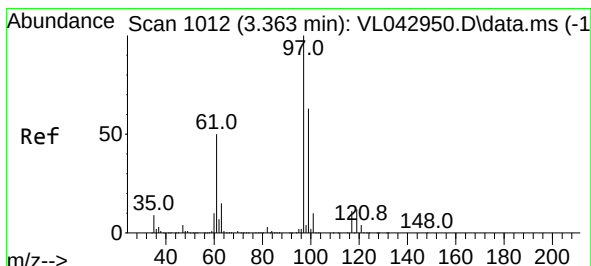
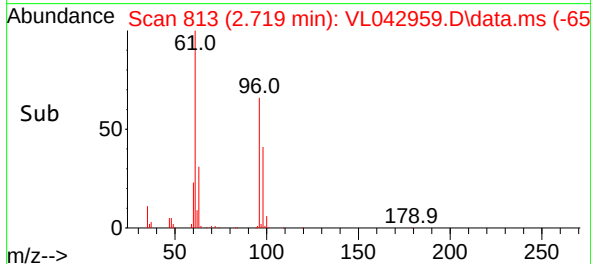
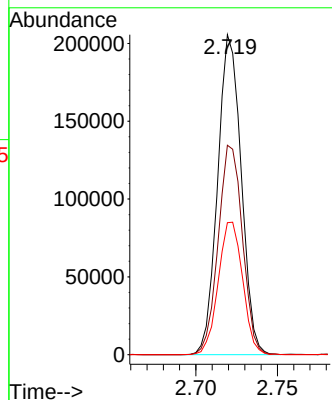
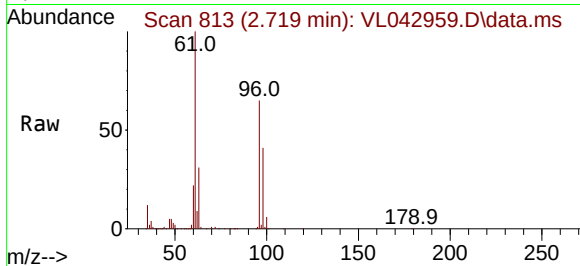




#31
 cis-1,2-Dichloroethene
 Concen: 9.332 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

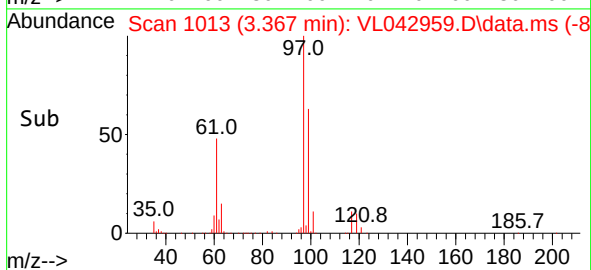
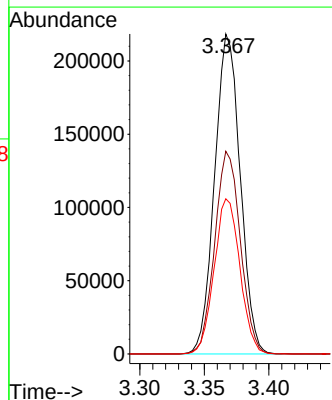
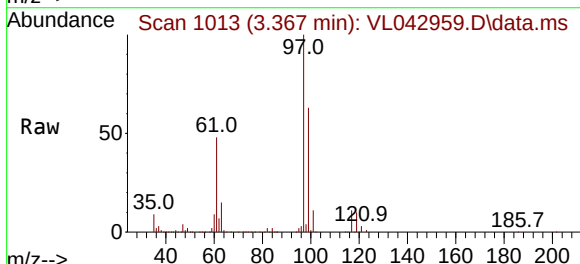
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0922ABS01

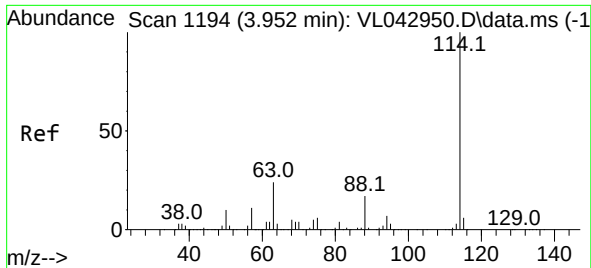
Tgt Ion: 61 Resp: 206747
 Ion Ratio Lower Upper
 61 100
 96 65.5 53.0 79.6
 98 41.2 32.9 49.3



#32
 1,1,1-Trichloroethane
 Concen: 9.024 ppbv
 RT: 3.367 min Scan# 1013
 Delta R.T. 0.003 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

Tgt Ion: 97 Resp: 301400
 Ion Ratio Lower Upper
 97 100
 99 63.6 51.1 76.7
 61 48.8 39.8 59.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.007 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

VL0922ABS01

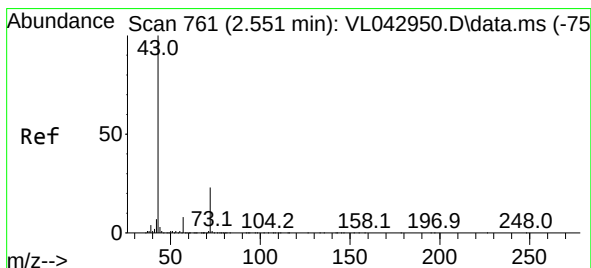
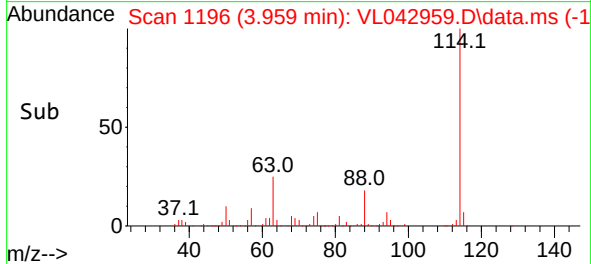
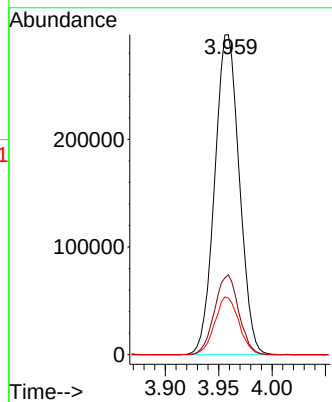
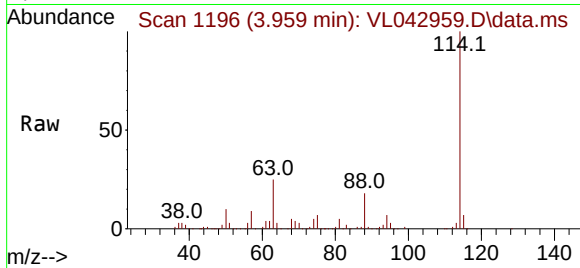
Tgt Ion:114 Resp: 475789

Ion Ratio Lower Upper

114 100

63 24.6 19.4 29.2

88 17.8 14.2 21.2



#34

2-Butanone

Concen: 9.245 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.007 min

Lab File: VL042959.D

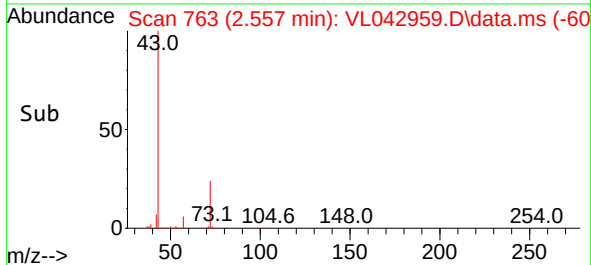
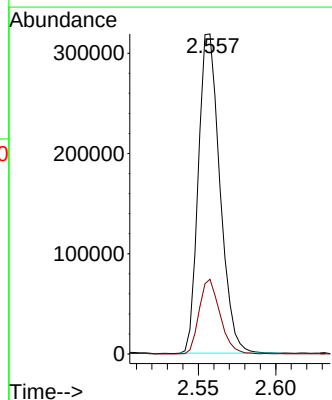
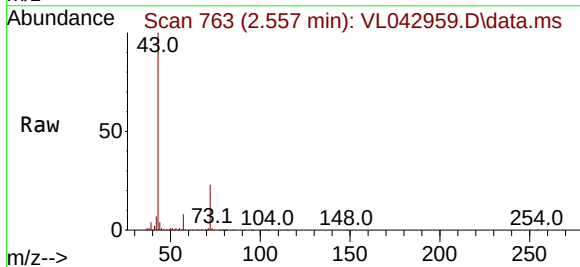
Acq: 22 Sep 2025 15:52

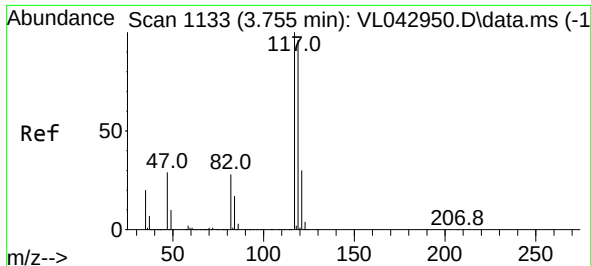
Tgt Ion: 43 Resp: 308258

Ion Ratio Lower Upper

43 100

72 22.8 17.7 26.5

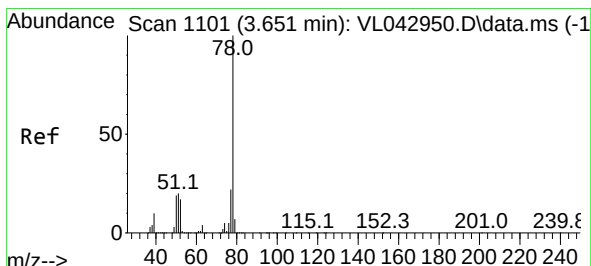
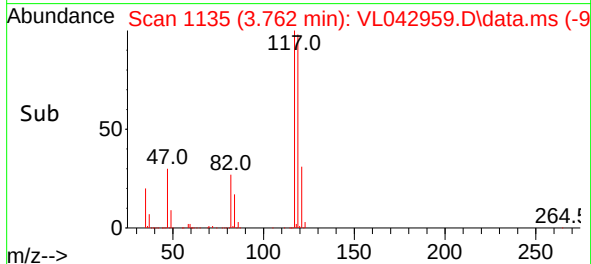
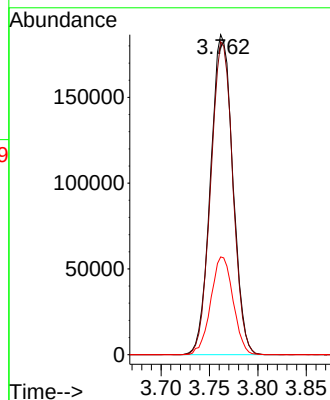
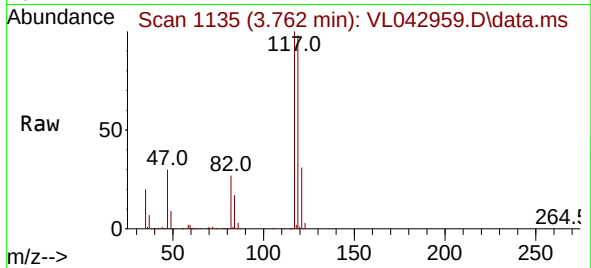




#35
Carbon Tetrachloride
Concen: 9.653 ppbv
RT: 3.762 min Scan# 1135
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

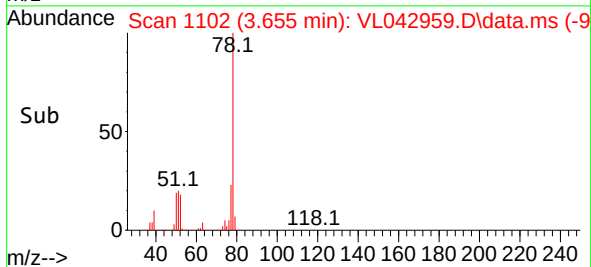
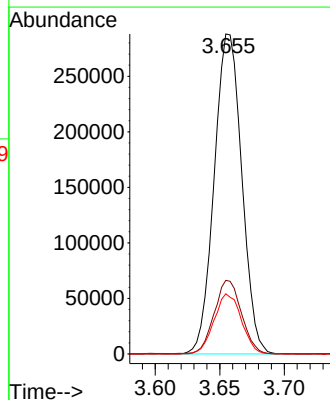
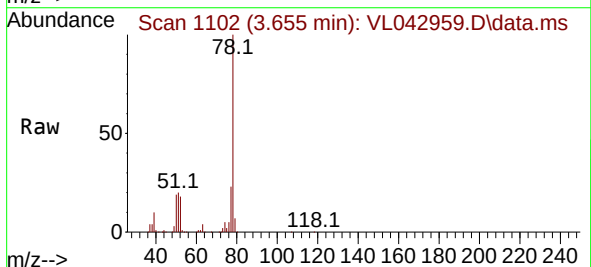
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01

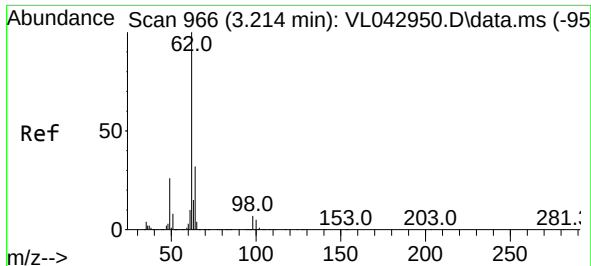
Tgt Ion:117 Resp: 299002
Ion Ratio Lower Upper
117 100
119 97.8 76.9 115.3
121 30.6 23.7 35.5



#36
Benzene
Concen: 9.565 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 78 Resp: 427346
Ion Ratio Lower Upper
78 100
77 23.0 17.8 26.6
50 18.8 15.0 22.4





#37

1,2-Dichloroethane

Concen: 9.935 ppbv

RT: 3.218 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

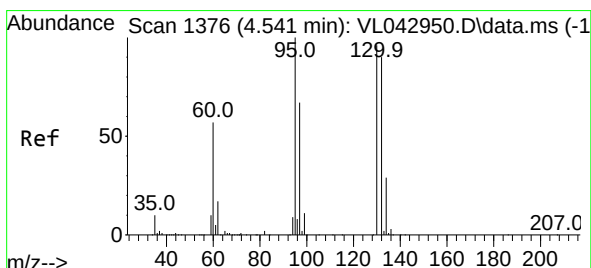
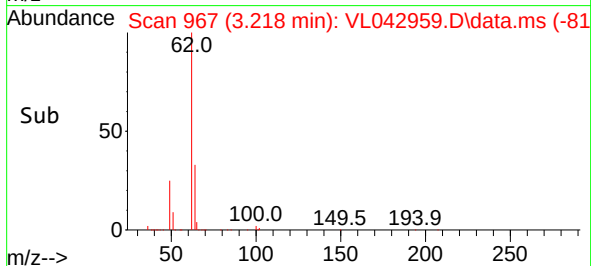
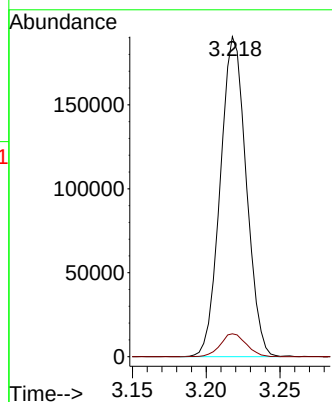
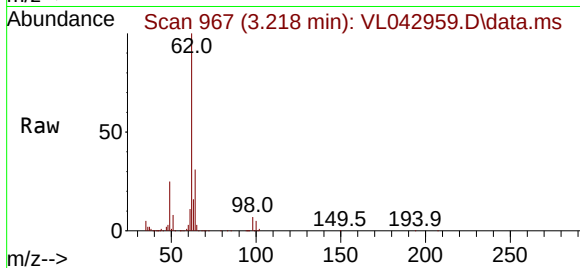
VL0922ABS01

Tgt Ion: 62 Resp: 233446

Ion Ratio Lower Upper

62 100

98 7.1 5.9 8.9



#38

Trichloroethene

Concen: 9.189 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. 0.007 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Tgt Ion:130 Resp: 204031

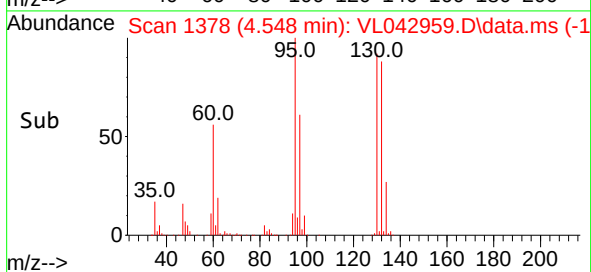
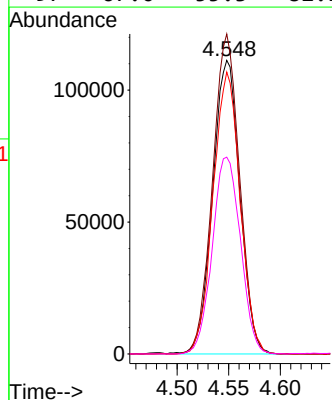
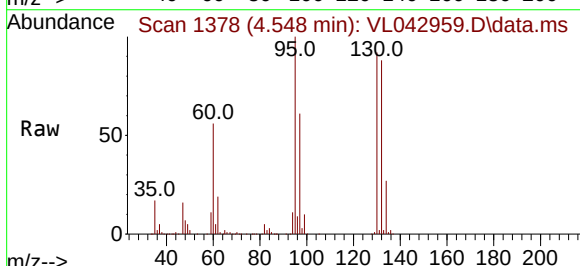
Ion Ratio Lower Upper

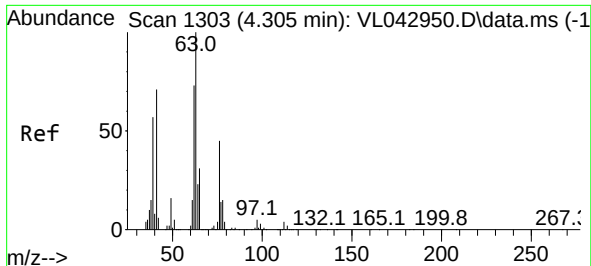
130 100

95 109.0 83.0 124.4

132 96.0 74.6 112.0

97 67.0 55.3 82.9





#39

1,2-Dichloropropane

Concen: 9.673 ppbv

RT: 4.315 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

VL0922ABS01

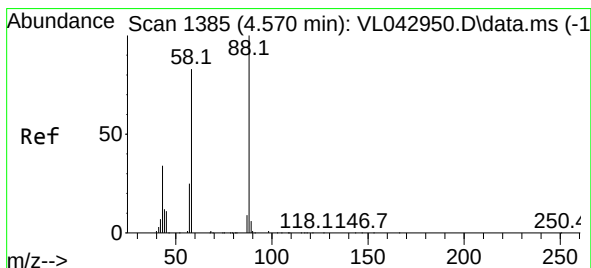
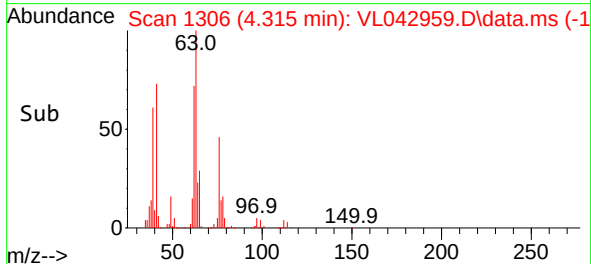
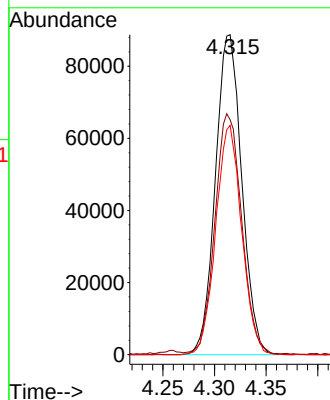
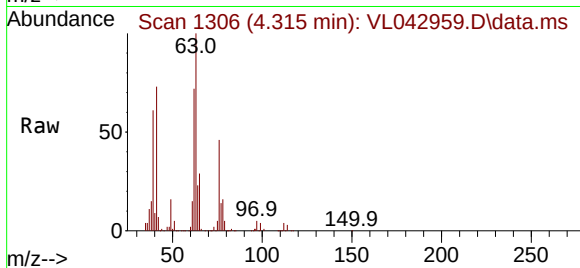
Tgt Ion: 63 Resp: 157775

Ion Ratio Lower Upper

63 100

41 73.1 57.5 86.3

62 71.6 58.5 87.7



#40

1,4-Dioxane

Concen: 9.339 ppbv

RT: 4.584 min Scan# 1389

Delta R.T. 0.013 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Tgt Ion: 88 Resp: 70833

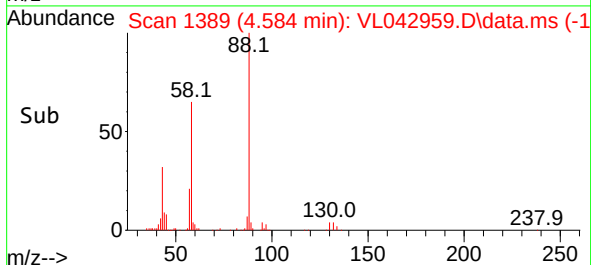
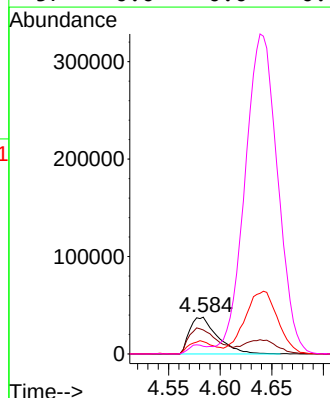
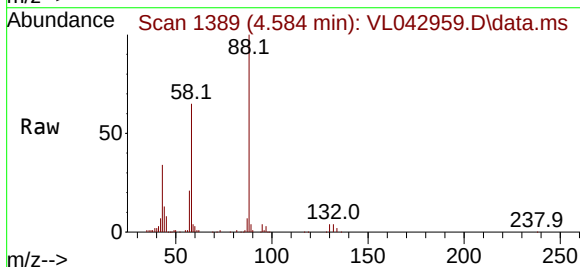
Ion Ratio Lower Upper

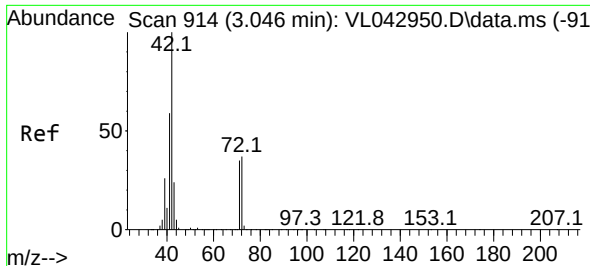
88 100

58 70.8 59.7 89.5

43 33.0 28.9 43.3

57 0.0 0.0 0.0

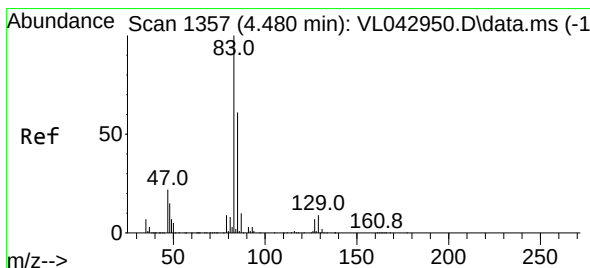
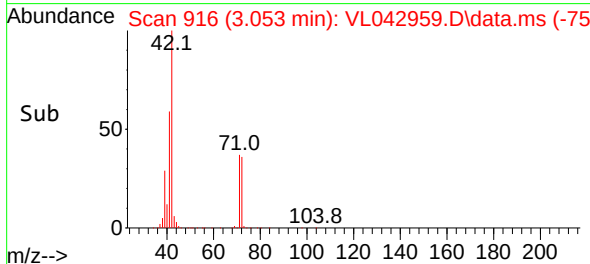
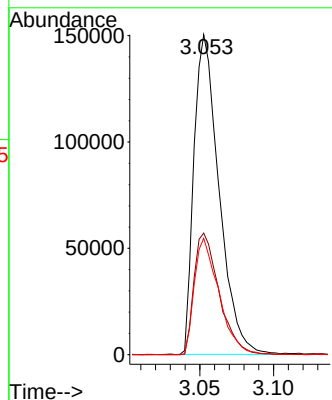
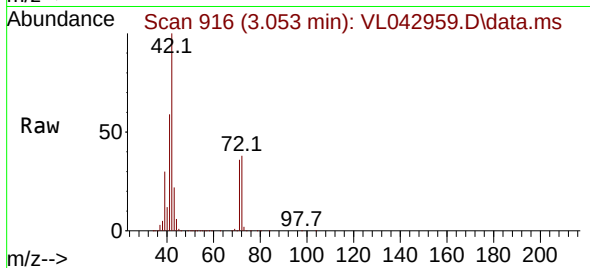




#41
Tetrahydrofuran
Concen: 9.281 ppbv
RT: 3.053 min Scan# 914
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

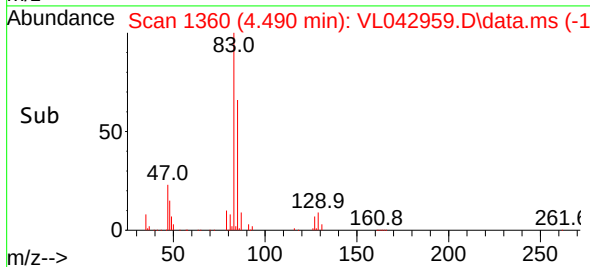
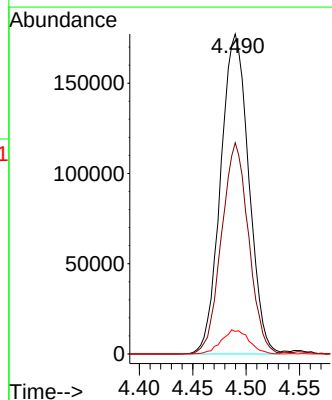
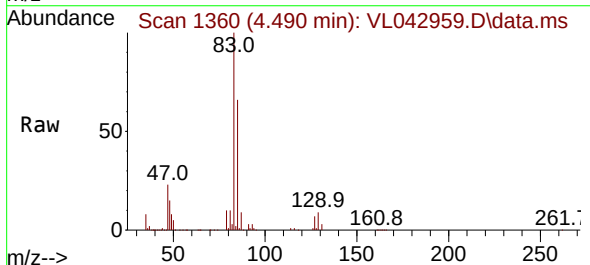
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01

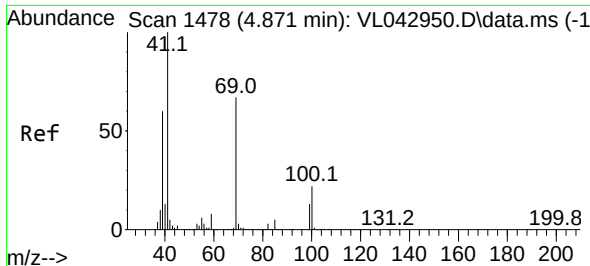
Tgt Ion: 42 Resp: 177879
Ion Ratio Lower Upper
42 100
72 38.3 30.0 45.0
71 35.9 28.8 43.2



#42
Bromodichloromethane
Concen: 9.924 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.010 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 83 Resp: 324757
Ion Ratio Lower Upper
83 100
85 66.0 49.0 73.6
127 7.0 5.3 7.9

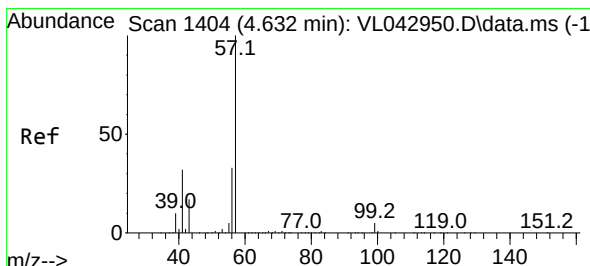
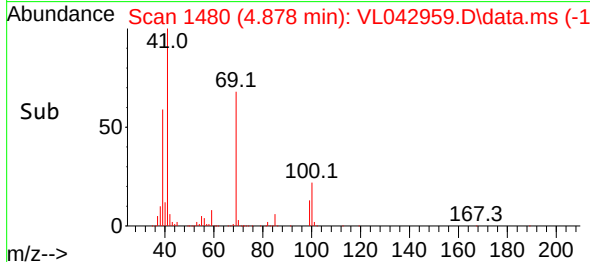
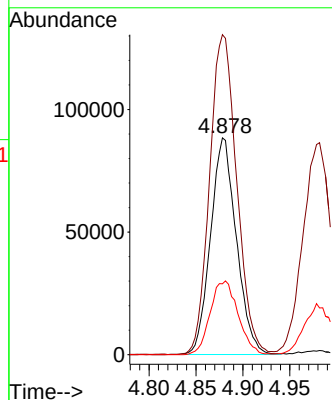
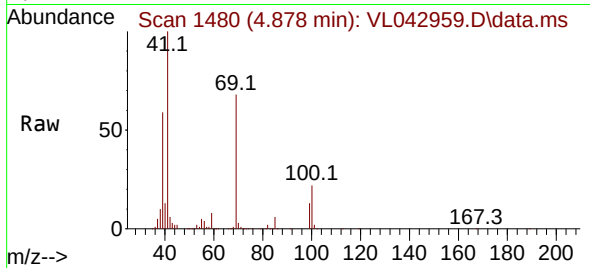




#43
Methyl Methacrylate
Concen: 9.250 ppbv
RT: 4.878 min Scan# 1478
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

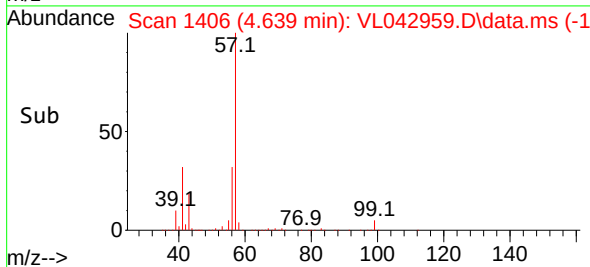
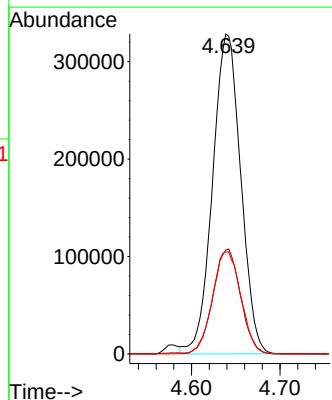
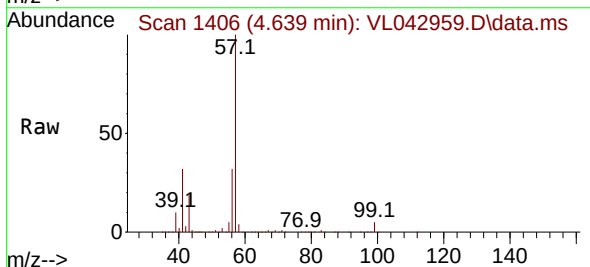
Instrument :
MSVOA_1
ClientSampleId :
VL0922ABS01

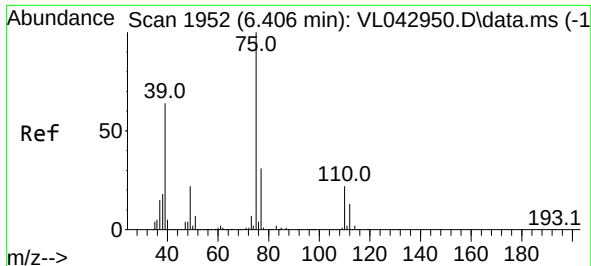
Tgt Ion: 69 Resp: 169093
Ion Ratio Lower Upper
69 100
41 154.7 124.5 186.7
100 36.8 29.0 43.6



#44
2,2,4-Trimethylpentane
Concen: 9.407 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 57 Resp: 725943
Ion Ratio Lower Upper
57 100
41 32.3 25.5 38.3
56 32.3 25.8 38.8

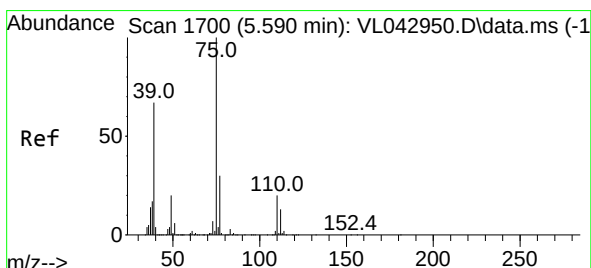
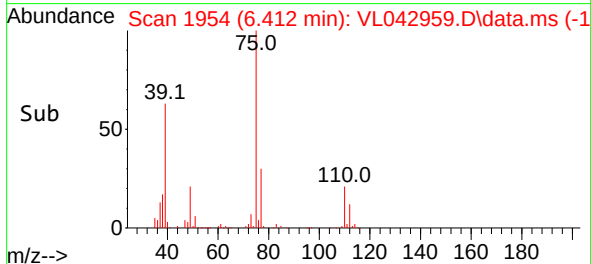
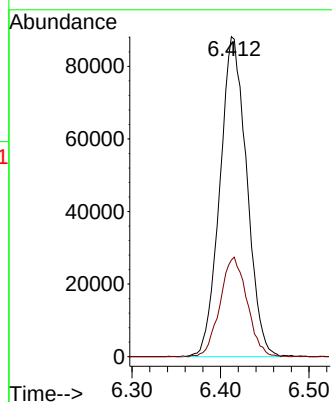
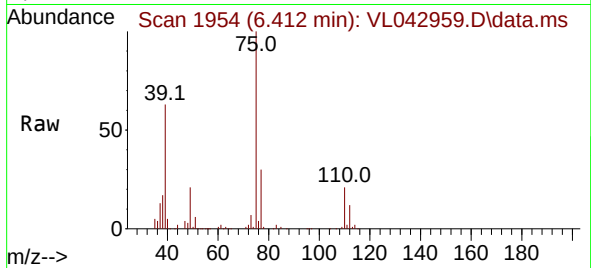




#45
 t-1,3-Dichloropropene
 Concen: 9.538 ppbv
 RT: 6.412 min Scan# 1952
 Delta R.T. 0.007 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

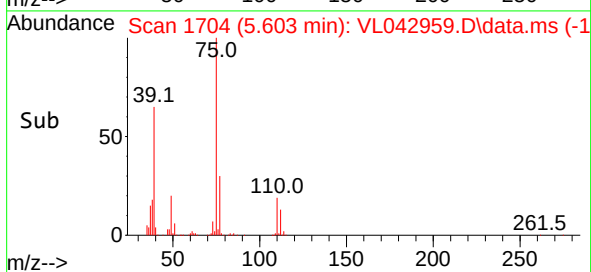
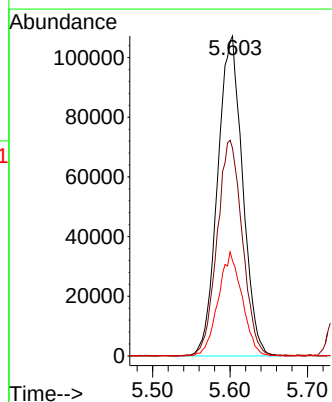
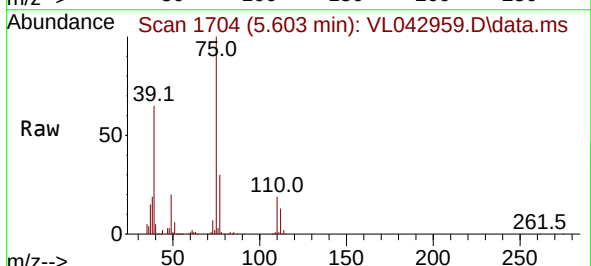
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0922ABS01

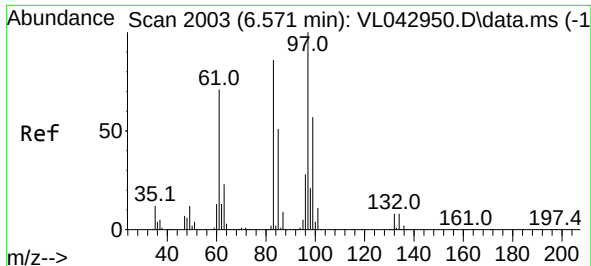
Tgt Ion: 75 Resp: 185943
 Ion Ratio Lower Upper
 75 100
 77 30.2 25.0 37.4



#46
 cis-1,3-Dichloropropene
 Concen: 9.667 ppbv
 RT: 5.603 min Scan# 1704
 Delta R.T. 0.013 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

Tgt Ion: 75 Resp: 240185
 Ion Ratio Lower Upper
 75 100
 39 64.8 53.8 80.6
 77 29.7 23.6 35.4





#47

1,1,2-Trichloroethane

Concen: 9.580 ppbv

RT: 6.581 min Scan# 2003

Delta R.T. 0.010 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

VL0922ABS01

Tgt Ion: 97 Resp: 165106

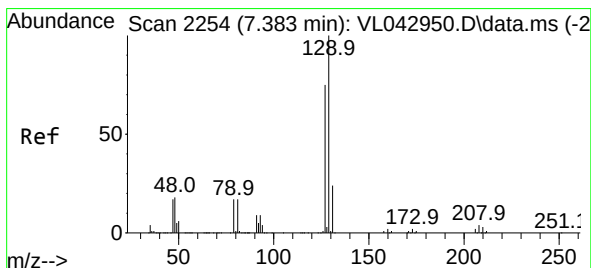
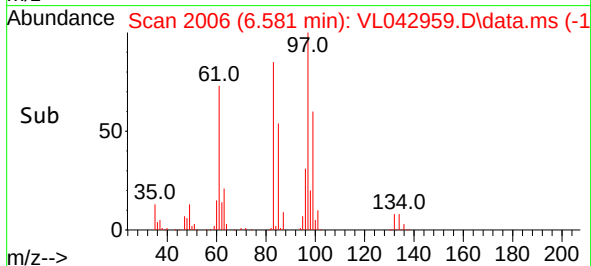
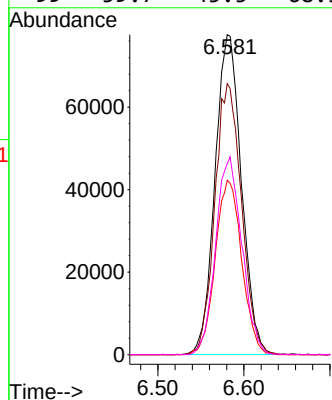
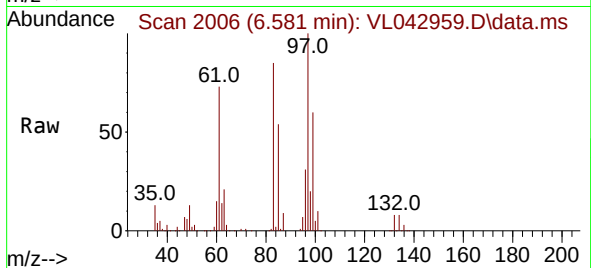
Ion Ratio Lower Upper

97 100

83 84.8 68.7 103.1

85 54.5 40.6 60.8

99 59.7 45.5 68.3



#48

Dibromochloromethane

Concen: 10.002 ppbv

RT: 7.387 min Scan# 2255

Delta R.T. 0.003 min

Lab File: VL042959.D

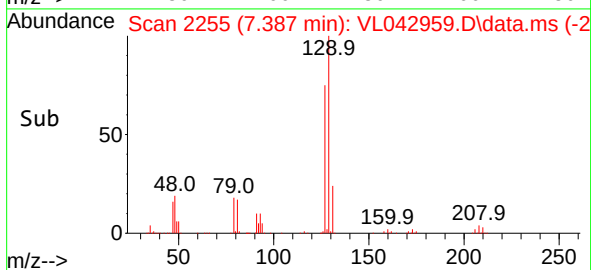
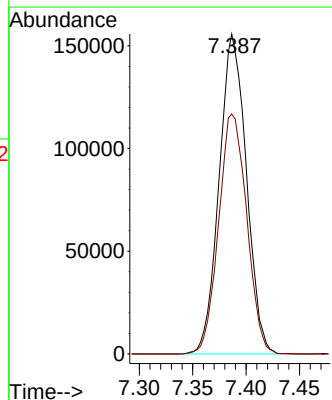
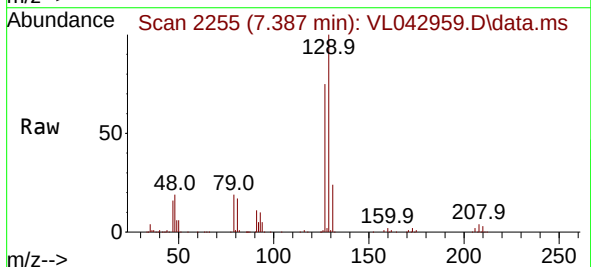
Acq: 22 Sep 2025 15:52

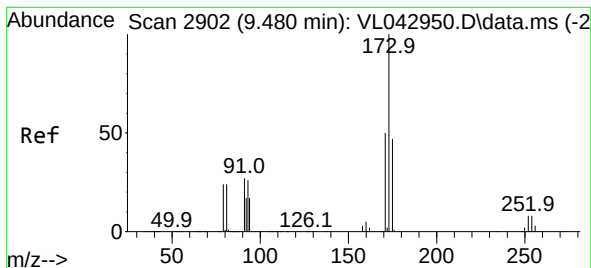
Tgt Ion: 129 Resp: 275781

Ion Ratio Lower Upper

129 100

127 77.6 39.1 117.2





#49

Bromoform

Concen: 9.800 ppbv

RT: 9.484 min Scan# 2902

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

VL0922ABS01

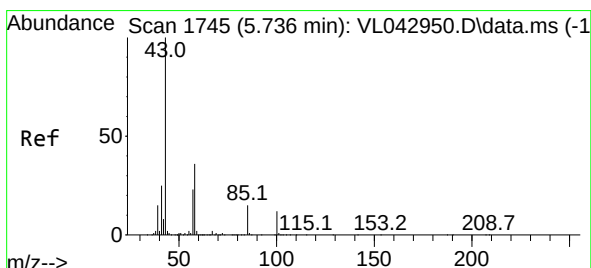
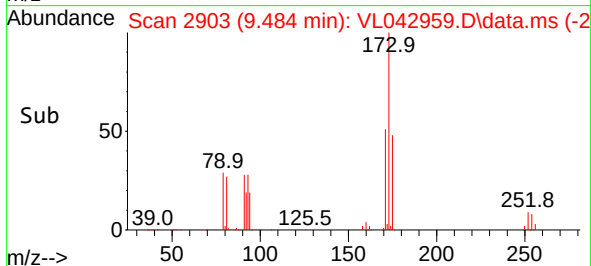
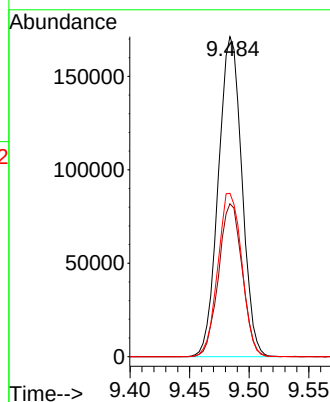
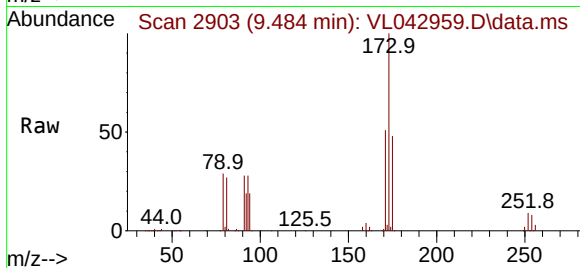
Tgt Ion:173 Resp: 235060

Ion Ratio Lower Upper

173 100

175 48.0 37.9 56.9

171 52.1 41.1 61.7



#50

4-Methyl-2-Pentanone

Concen: 9.645 ppbv

RT: 5.749 min Scan# 1749

Delta R.T. 0.013 min

Lab File: VL042959.D

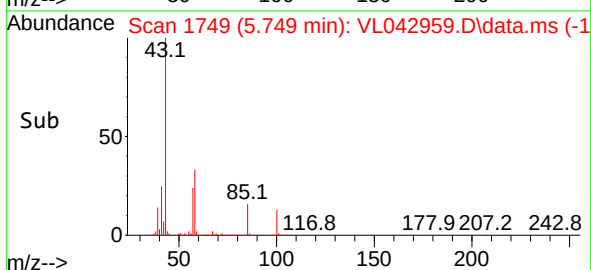
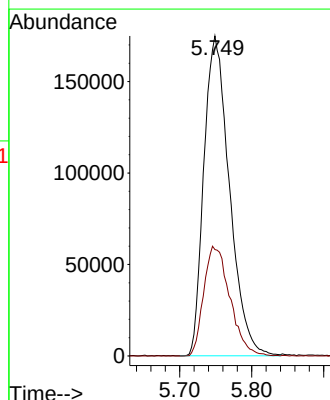
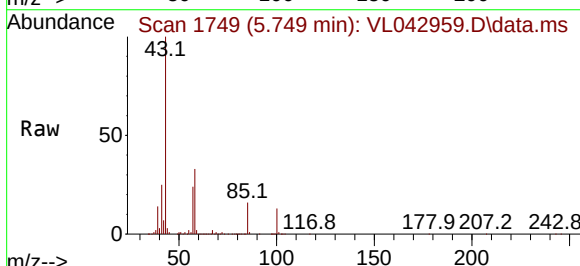
Acq: 22 Sep 2025 15:52

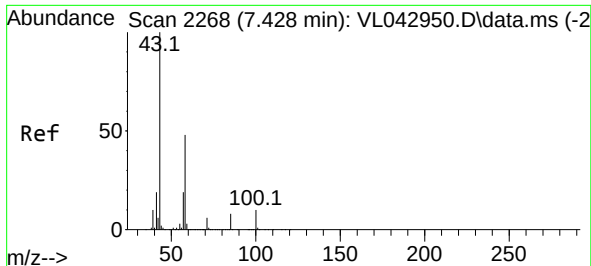
Tgt Ion: 43 Resp: 431031

Ion Ratio Lower Upper

43 100

58 35.1 28.4 42.6

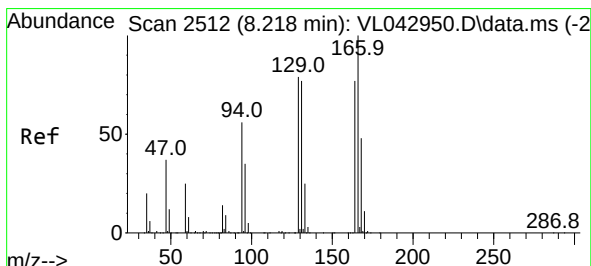
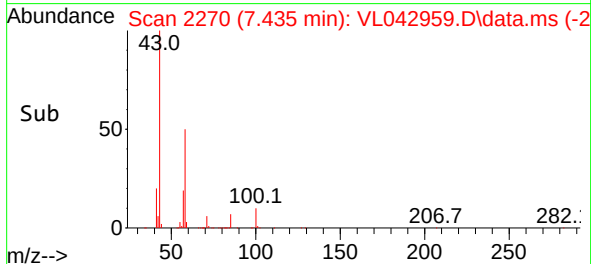
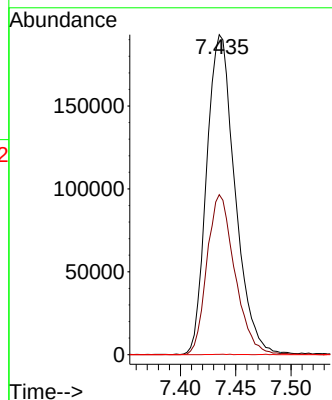
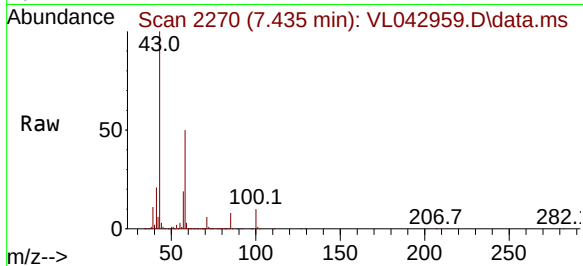




#51
2-Hexanone
Concen: 9.641 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

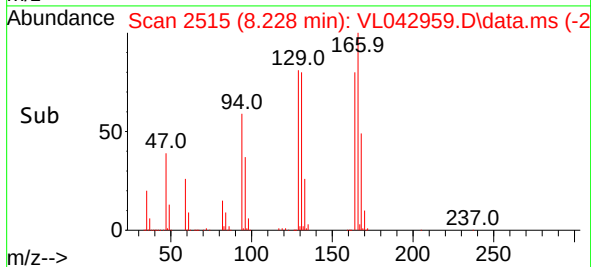
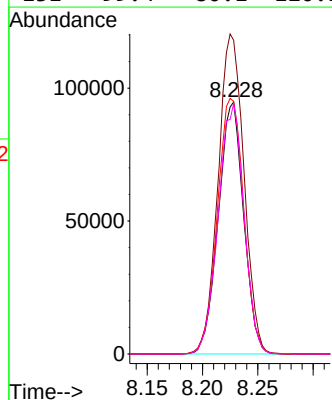
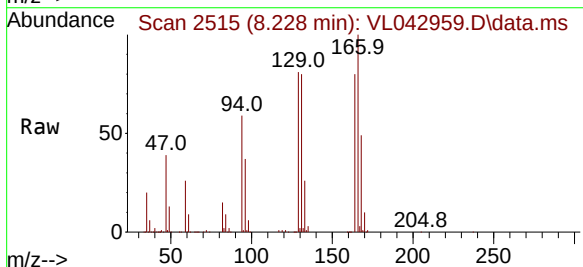
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01

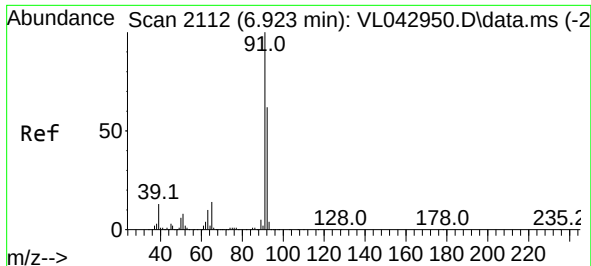
Tgt Ion: 43 Resp: 343461
Ion Ratio Lower Upper
43 100
58 49.4 39.7 59.5
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 8.705 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.010 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 164 Resp: 150483
Ion Ratio Lower Upper
164 100
166 124.5 103.5 155.3
129 100.2 82.2 123.4
131 99.4 80.1 120.1

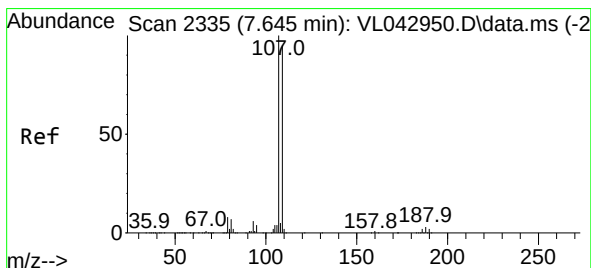
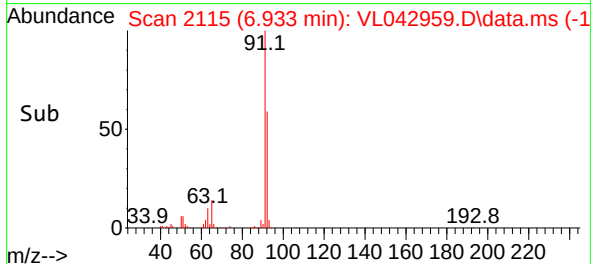
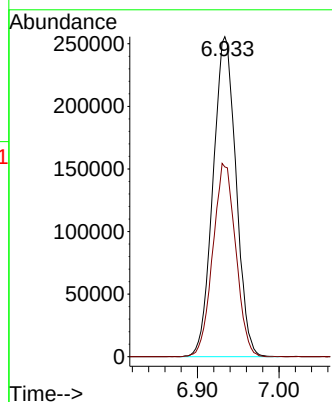
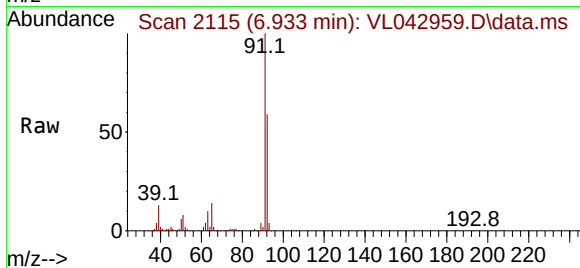




#53
Toluene
Concen: 9.484 ppbv
RT: 6.933 min Scan# 2112
Delta R.T. 0.010 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

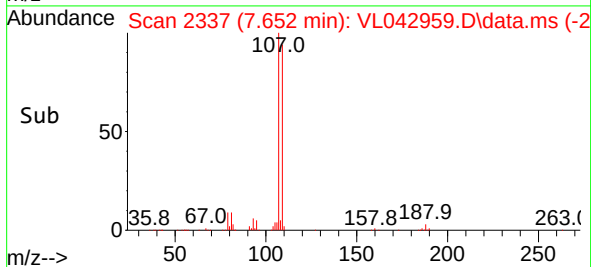
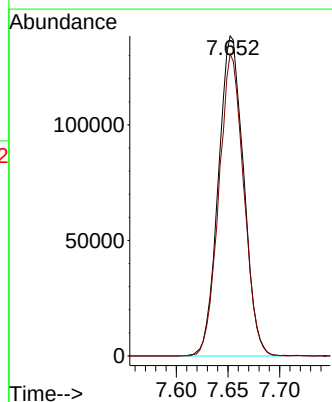
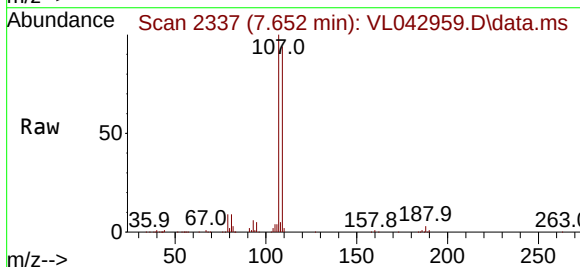
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01

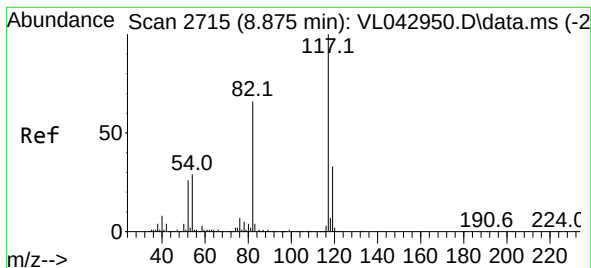
Tgt Ion: 91 Resp: 501548
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.2



#54
1,2-Dibromoethane
Concen: 9.704 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 107 Resp: 235389
Ion Ratio Lower Upper
107 100
109 94.4 75.8 113.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 21

Delta R.T. 0.007 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

VL0922ABS01

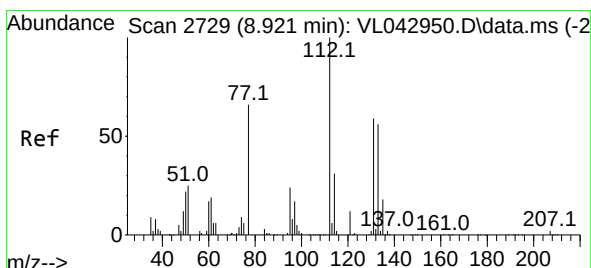
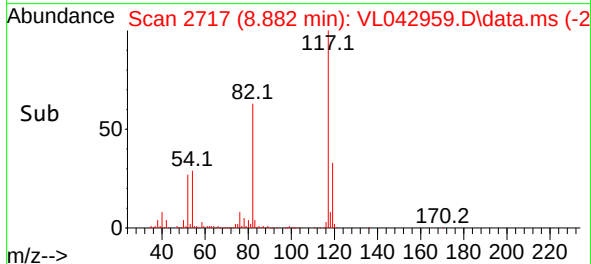
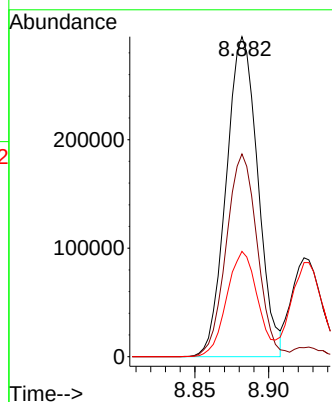
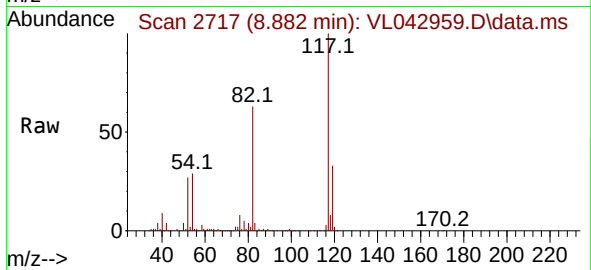
Tgt Ion:117 Resp: 440323

Ion Ratio Lower Upper

117 100

82 64.7 52.8 79.2

119 32.3 26.5 39.7



#56

1,1,1,2-Tetrachloroethane

Concen: 9.516 ppbv

RT: 8.924 min Scan# 2730

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

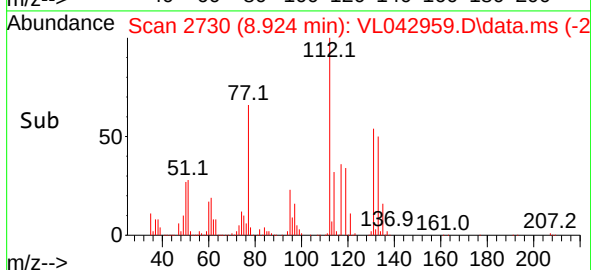
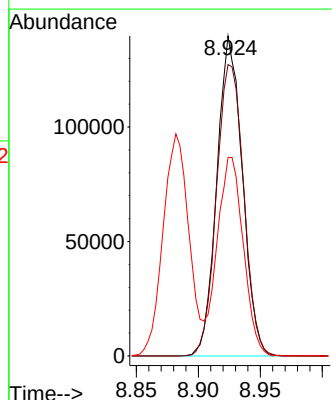
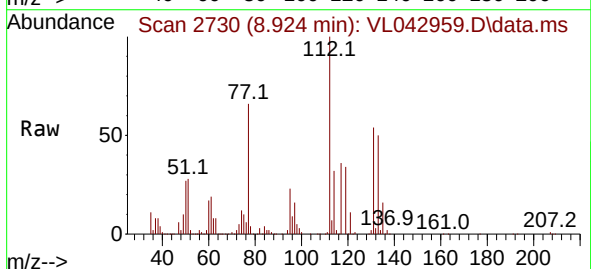
Tgt Ion:131 Resp: 200560

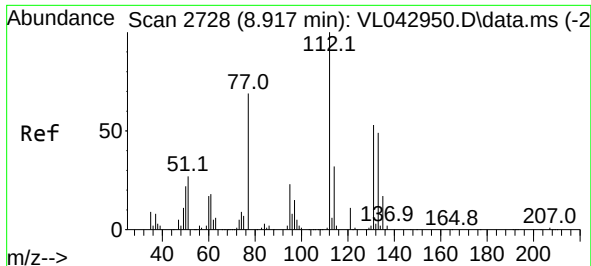
Ion Ratio Lower Upper

131 100

133 97.0 76.6 114.8

119 64.8 49.9 74.9

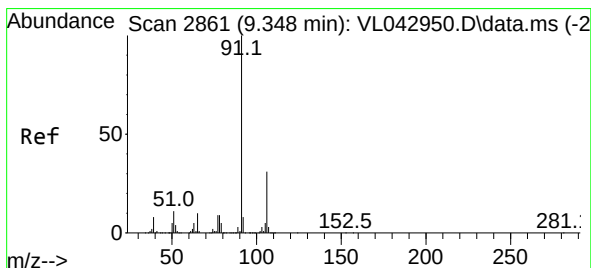
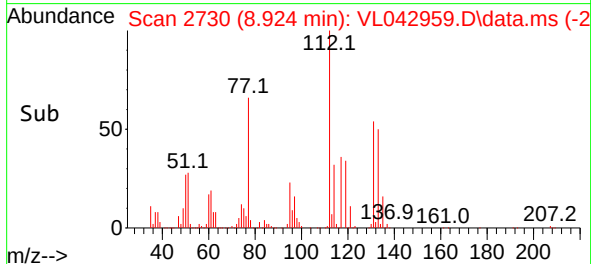
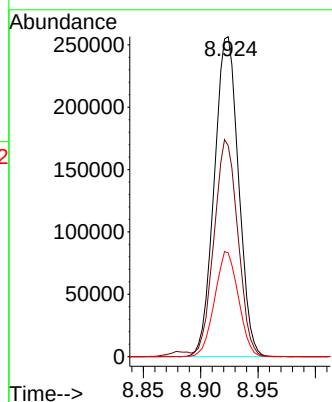
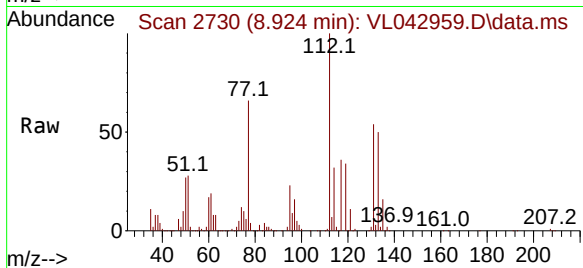




#57
Chlorobenzene
Concen: 9.392 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

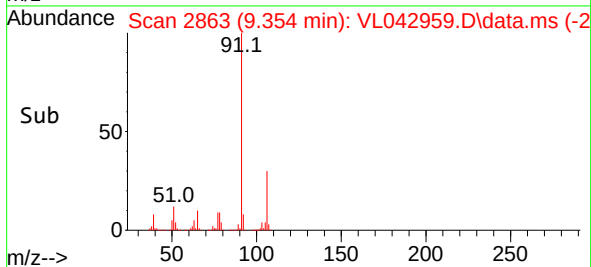
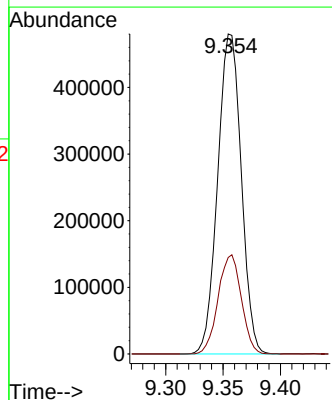
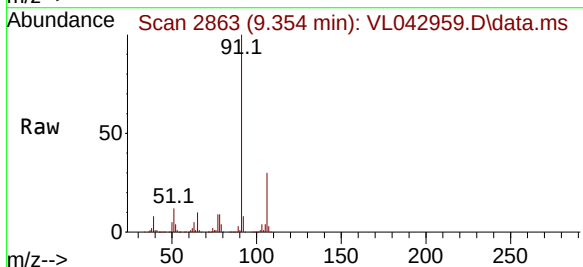
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01

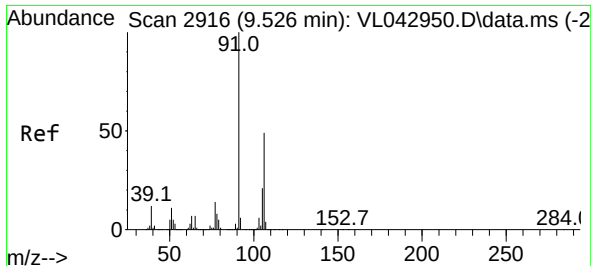
Tgt Ion:112 Resp: 377524
Ion Ratio Lower Upper
112 100
77 65.9 55.7 83.5
114 32.4 28.6 35.0



#58
Ethyl Benzene
Concen: 9.489 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 91 Resp: 686057
Ion Ratio Lower Upper
91 100
106 30.1 24.6 37.0





#59

m/p-Xylene

Concen: 9.897 ppbv

RT: 9.532 min Scan# 2916

Delta R.T. 0.007 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

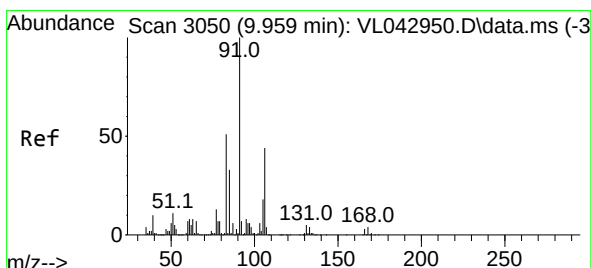
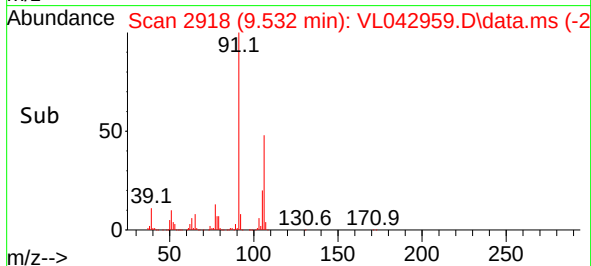
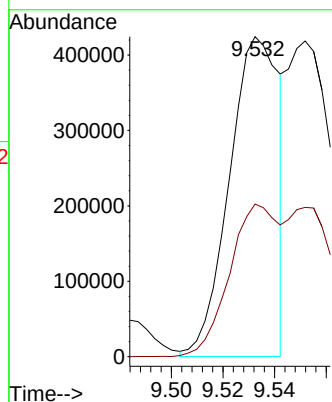
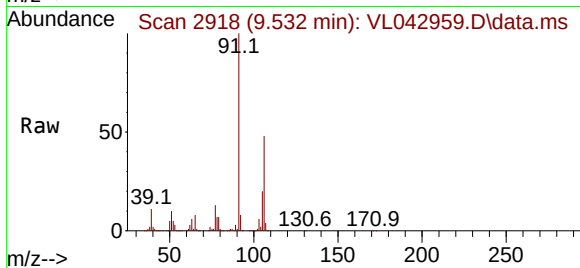
VL0922ABS01

Tgt Ion: 91 Resp: 564158

Ion Ratio Lower Upper

91 100

106 91.3 0.0 0.0#



#60

o-Xylene

Concen: 9.426 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.007 min

Lab File: VL042959.D

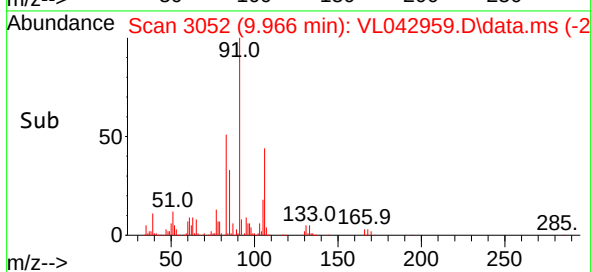
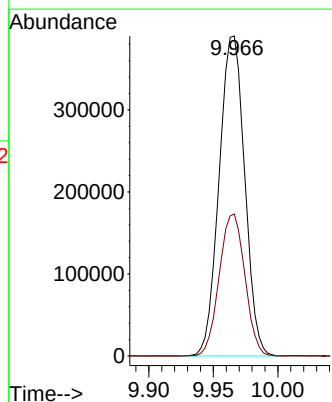
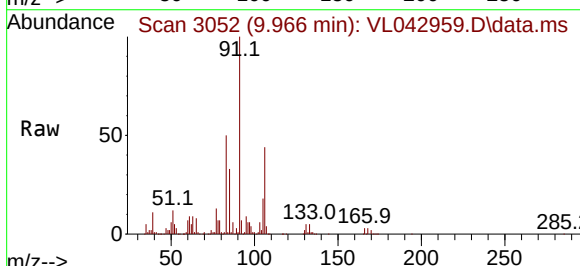
Acq: 22 Sep 2025 15:52

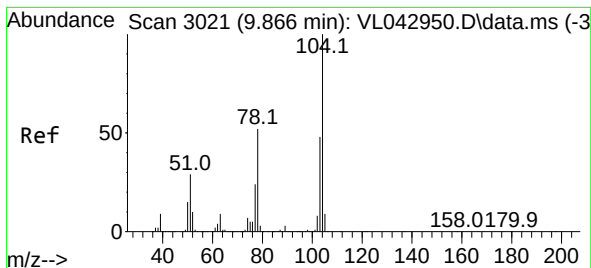
Tgt Ion: 91 Resp: 537008

Ion Ratio Lower Upper

91 100

106 44.4 22.4 67.0





#61

Styrene

Concen: 9.602 ppbv

RT: 9.872 min Scan# 3021

Delta R.T. 0.007 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_1

ClientSampleId :

VL0922ABS01

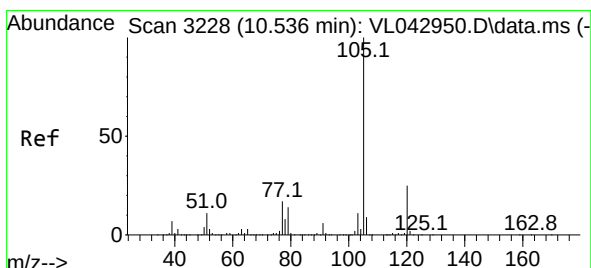
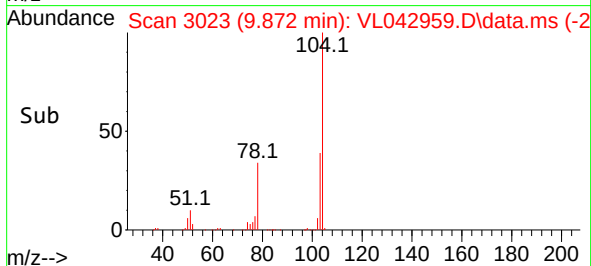
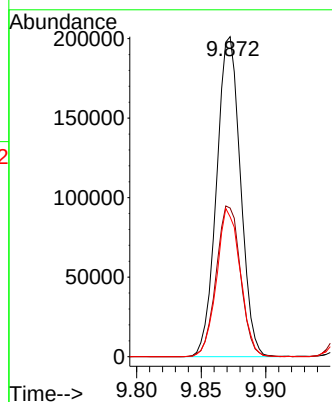
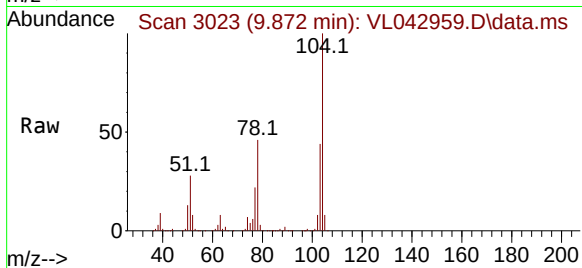
Tgt Ion:104 Resp: 258756

Ion Ratio Lower Upper

104 100

78 48.0 39.9 59.9

103 46.0 36.9 55.3



#62

Isopropylbenzene

Concen: 9.274 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. 0.003 min

Lab File: VL042959.D

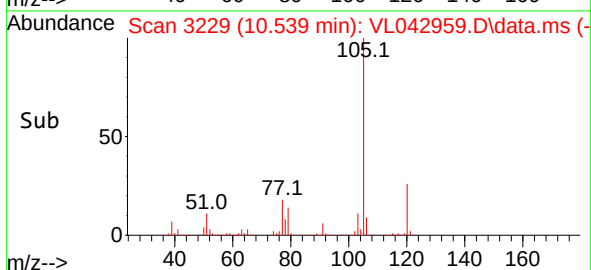
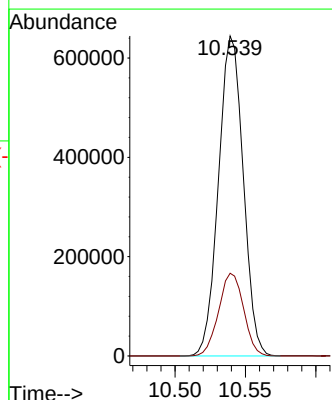
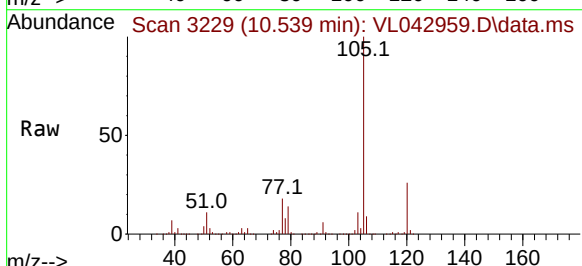
Acq: 22 Sep 2025 15:52

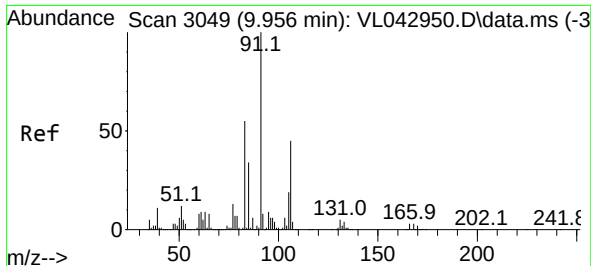
Tgt Ion:105 Resp: 787602

Ion Ratio Lower Upper

105 100

120 26.1 20.6 30.8

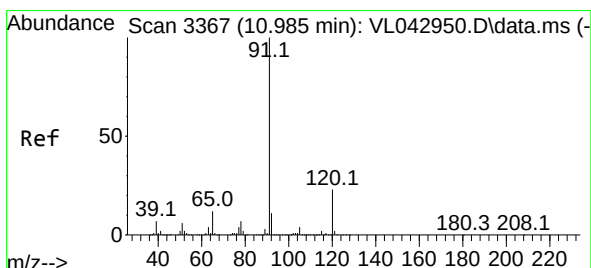
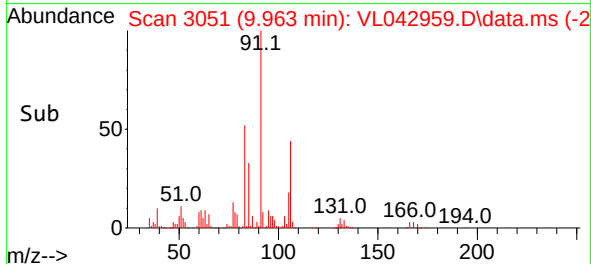
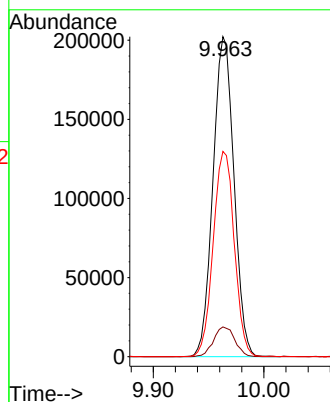
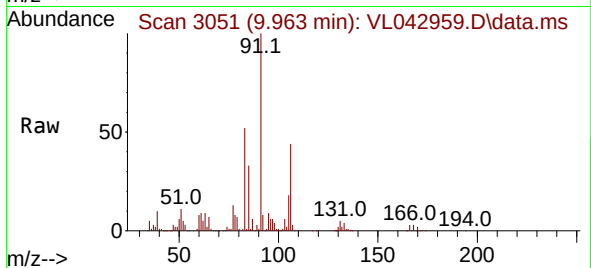




#63
1,1,2,2-Tetrachloroethane
Concen: 8.890 ppbv
RT: 9.963 min Scan# 3049
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

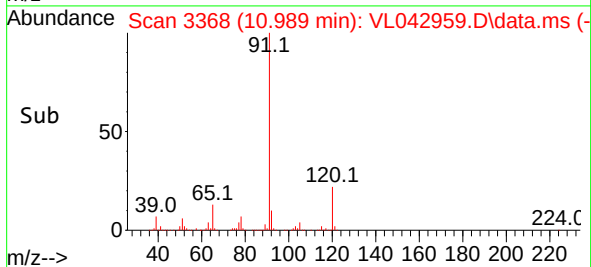
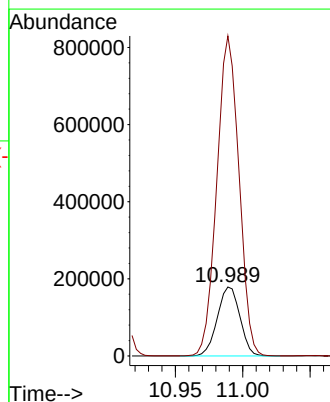
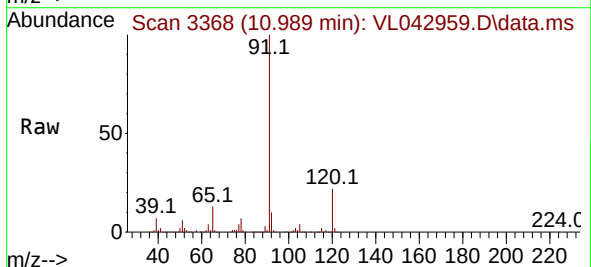
Instrument :
MSVOA_1
ClientSampleId :
VL0922ABS01

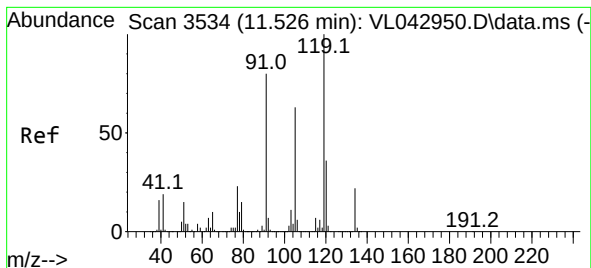
Tgt Ion: 83 Resp: 266223
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.4
85 64.5 32.2 96.6



#64
n-propylbenzene
Concen: 9.389 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 120 Resp: 208358
Ion Ratio Lower Upper
120 100
91 454.9 364.9 547.3





#65

tert-Butylbenzene

Concen: 9.188 ppbv

RT: 11.533 min Scan# 3534

Delta R.T. 0.007 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_1

ClientSampleId :

VL0922ABS01

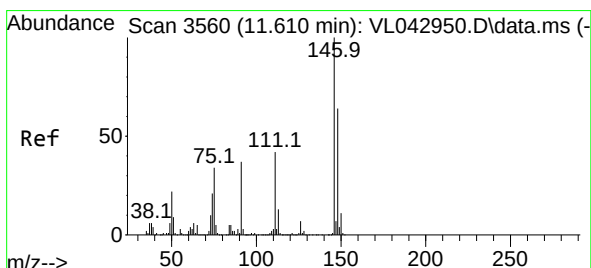
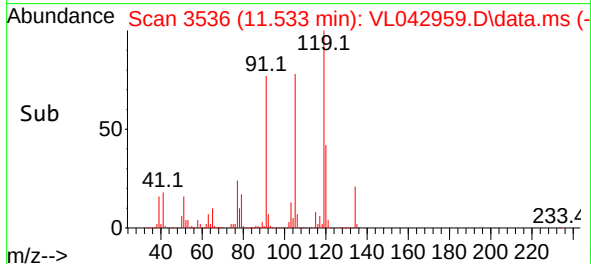
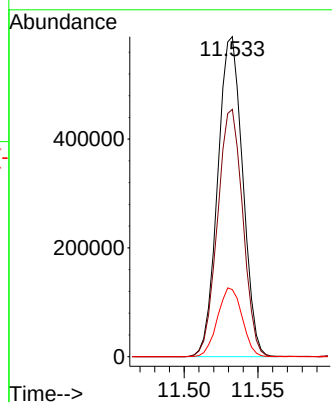
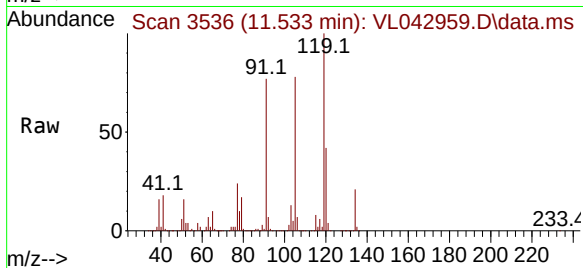
Tgt Ion:119 Resp: 694033

Ion Ratio Lower Upper

119 100

91 78.2 63.1 94.7

134 21.2 17.0 25.6



#66

Benzyl Chloride

Concen: 8.196 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.007 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

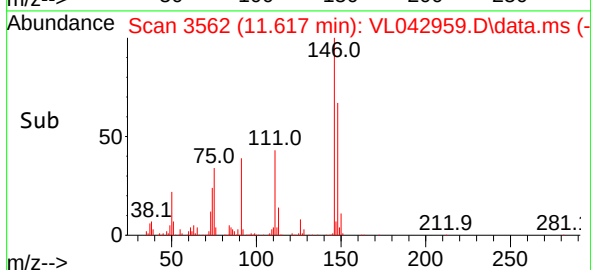
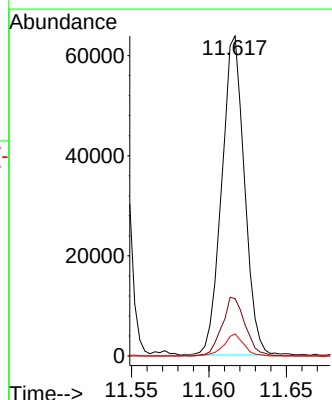
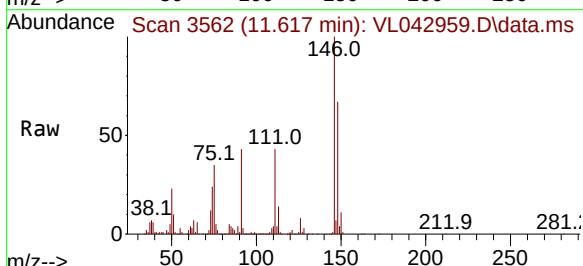
Tgt Ion: 91 Resp: 64955

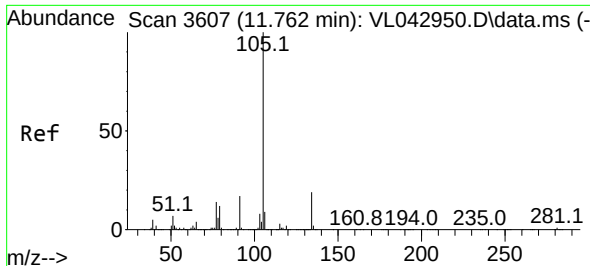
Ion Ratio Lower Upper

91 100

126 18.8 14.6 21.8

128 6.2 5.0 7.4

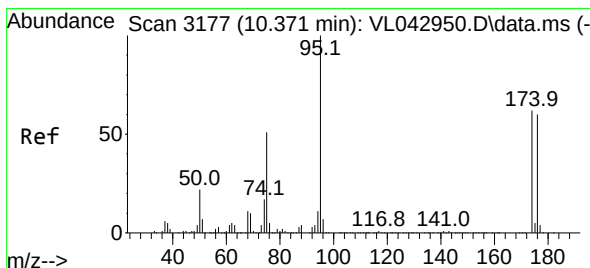
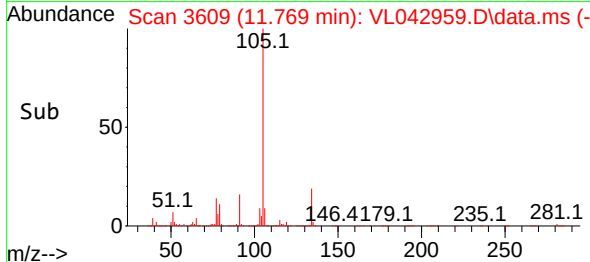
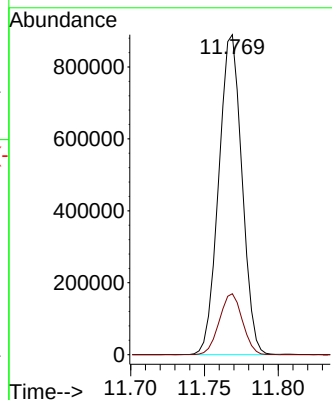
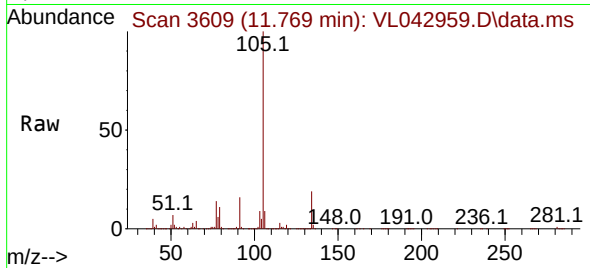




#67
 sec-Butylbenzene
 Concen: 9.261 ppbv
 RT: 11.769 min Scan# 3179
 Delta R.T. 0.007 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

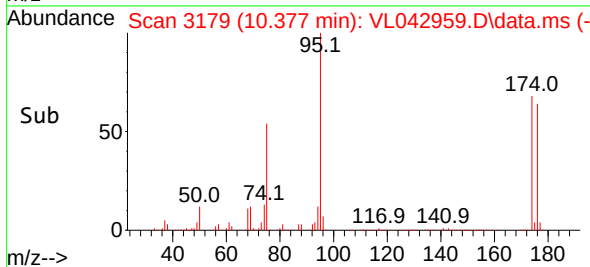
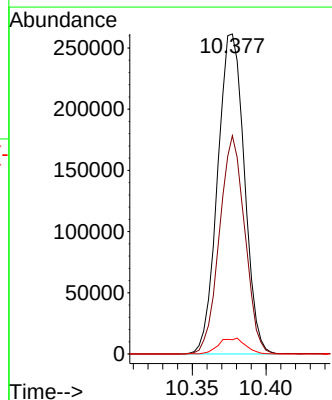
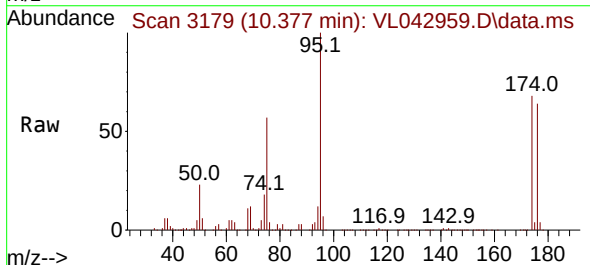
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0922ABS01

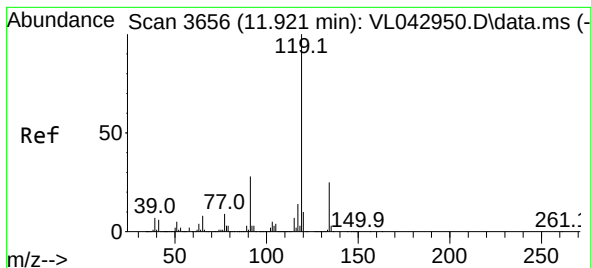
Tgt Ion:105 Resp: 974750
 Ion Ratio Lower Upper
 105 100
 134 19.0 15.7 23.5



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.025 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.007 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

Tgt Ion: 95 Resp: 329520
 Ion Ratio Lower Upper
 95 100
 174 64.8 51.4 77.2
 175 5.0 4.0 6.0





#69

p-Isopropyltoluene

Concen: 9.229 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_1

ClientSampleId :

VL0922ABS01

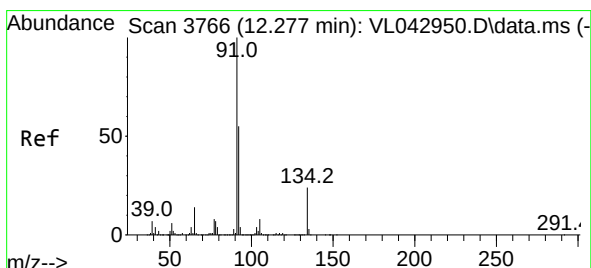
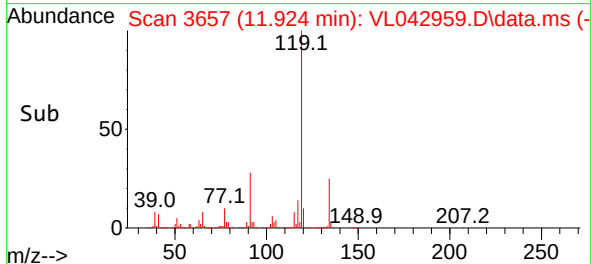
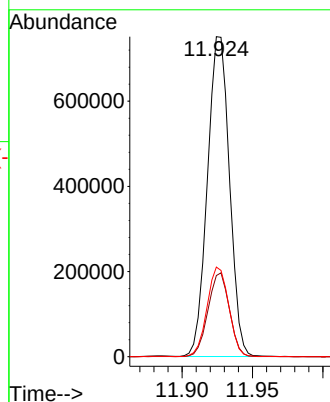
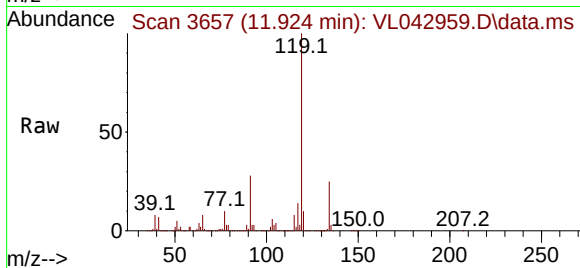
Tgt Ion:119 Resp: 820532

Ion Ratio Lower Upper

119 100

134 25.5 21.0 31.4

91 27.7 22.3 33.5



#70

n-Butylbenzene

Concen: 9.434 ppbv

RT: 12.280 min Scan# 3767

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

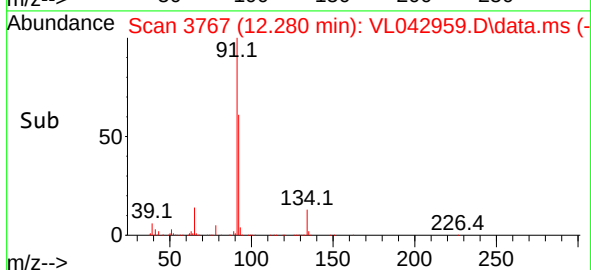
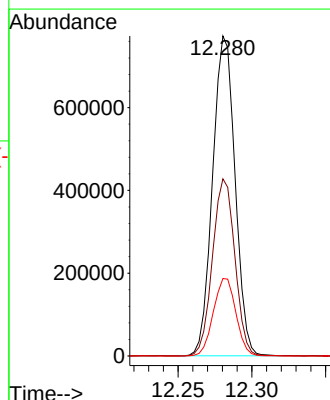
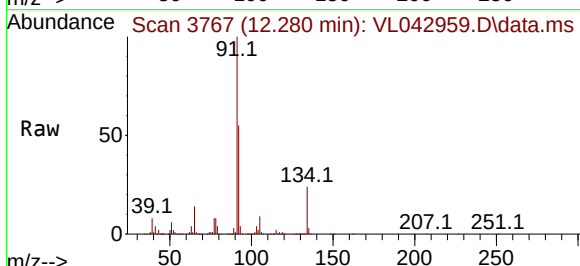
Tgt Ion: 91 Resp: 818866

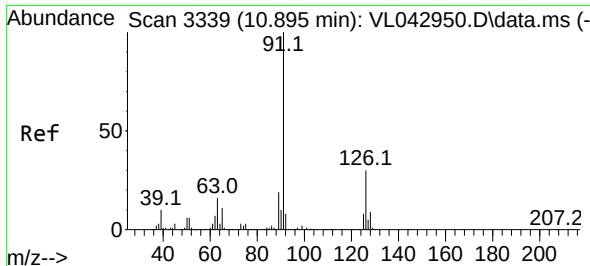
Ion Ratio Lower Upper

91 100

92 55.3 44.0 66.0

134 24.3 19.4 29.2

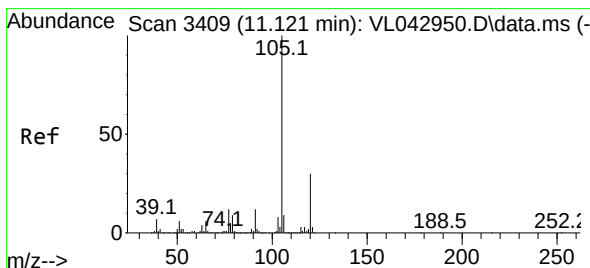
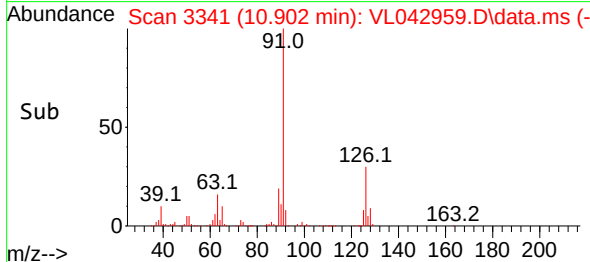
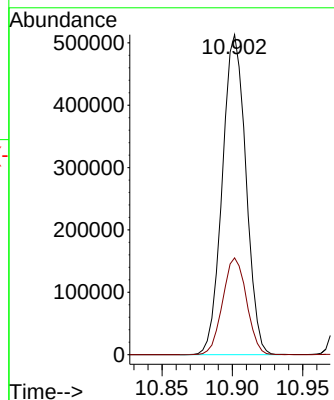
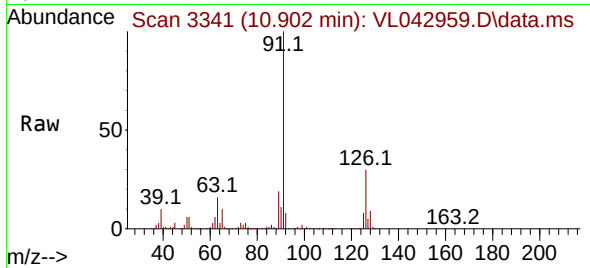




#71
2-Chlorotoluene
Concen: 9.336 ppbv
RT: 10.902 min Scan# 31
Delta R.T. 0.007 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

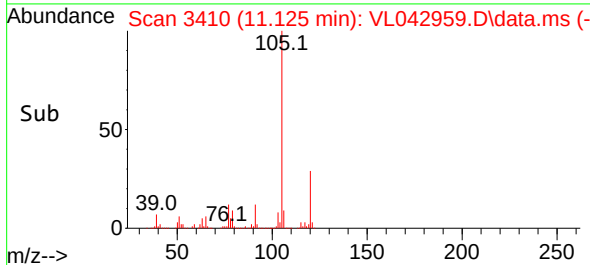
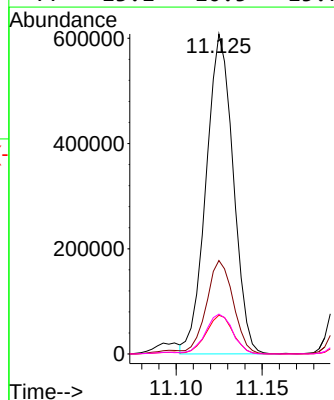
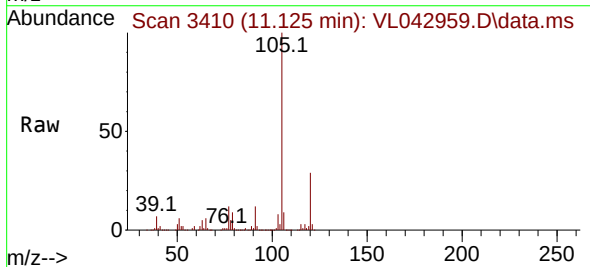
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABS01

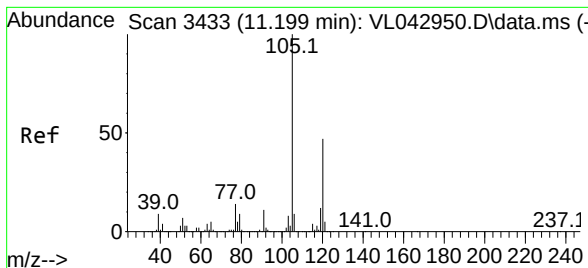
Tgt Ion: 91 Resp: 598619
Ion Ratio Lower Upper
91 100
126 30.6 12.3 49.3



#72
4-Ethyltoluene
Concen: 9.332 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042959.D
Acq: 22 Sep 2025 15:52

Tgt Ion: 105 Resp: 665916
Ion Ratio Lower Upper
105 100
120 30.0 24.2 36.2
91 12.5 10.0 15.0
77 13.1 10.5 15.7





#73

1,3,5-Trimethylbenzene

Concen: 9.539 ppbv

RT: 11.206 min Scan# 3433

Delta R.T. 0.007 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_1

ClientSampleId :

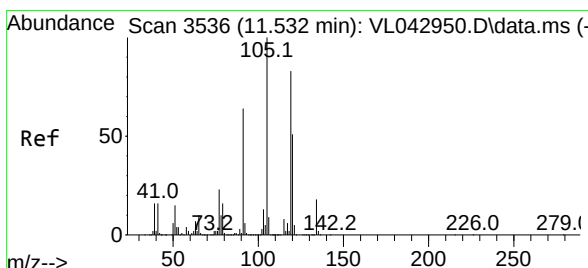
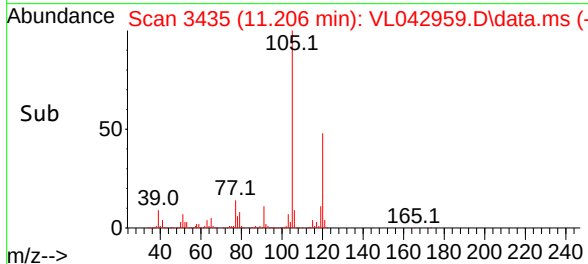
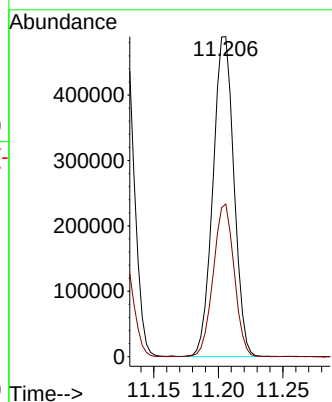
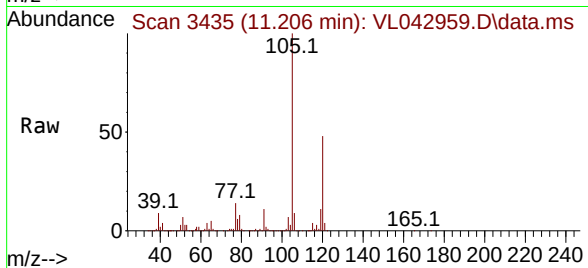
VL0922ABS01

Tgt Ion:105 Resp: 552039

Ion Ratio Lower Upper

105 100

120 47.7 38.0 57.0



#74

1,2,4-Trimethylbenzene

Concen: 9.277 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Tgt Ion:105 Resp: 592889

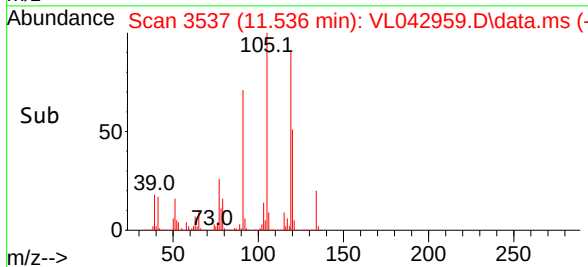
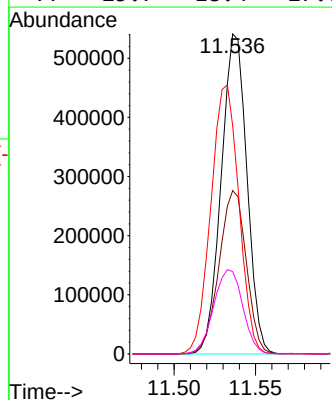
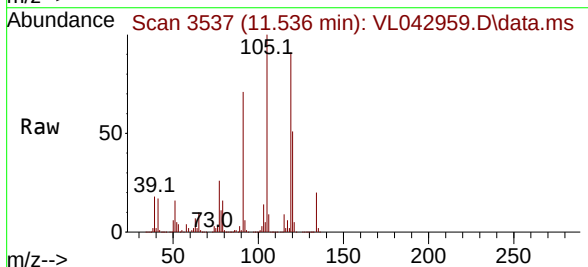
Ion Ratio Lower Upper

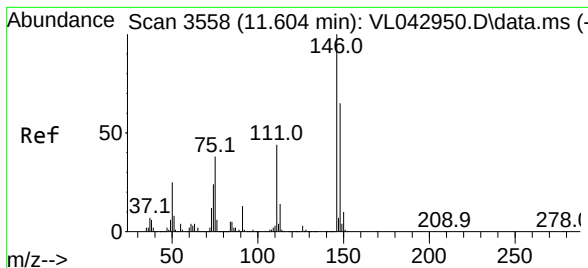
105 100

120 51.0 40.9 61.3

91 71.2 51.2 76.8

77 25.7 18.4 27.6





#75

1,3-Dichlorobenzene

Concen: 9.299 ppbv

RT: 11.607 min Scan# 3558

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_1

ClientSampleId :

VL0922ABS01

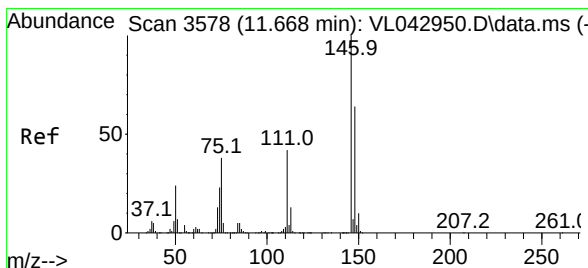
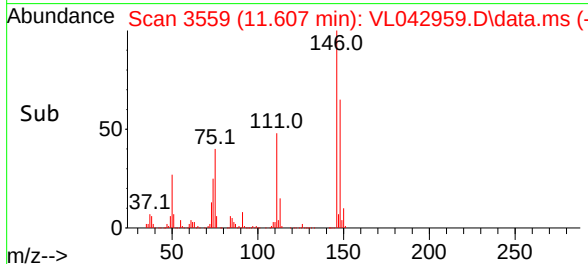
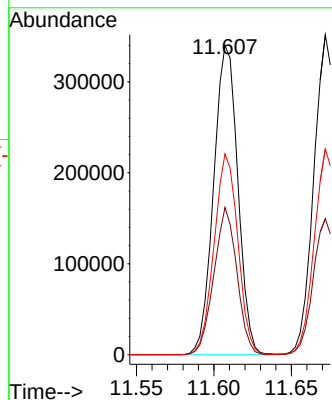
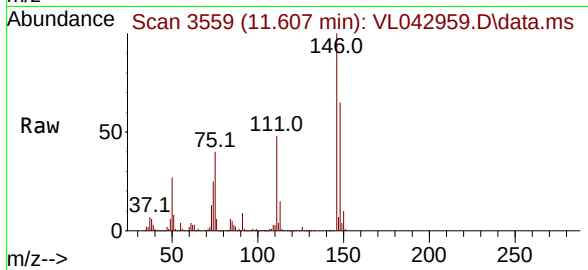
Tgt Ion:146 Resp: 368544

Ion Ratio Lower Upper

146 100

111 45.3 22.3 66.9

148 64.0 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 9.397 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

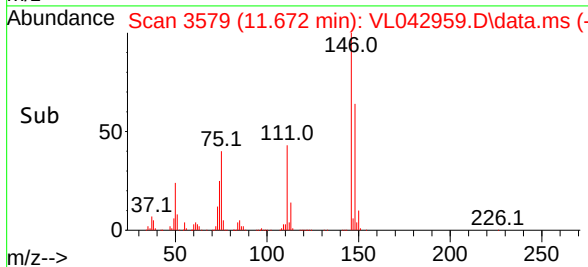
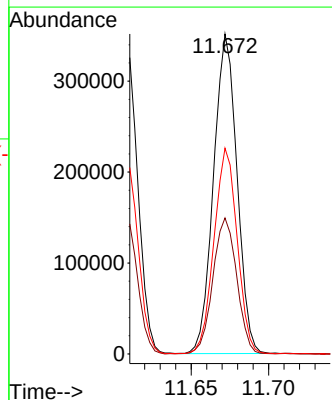
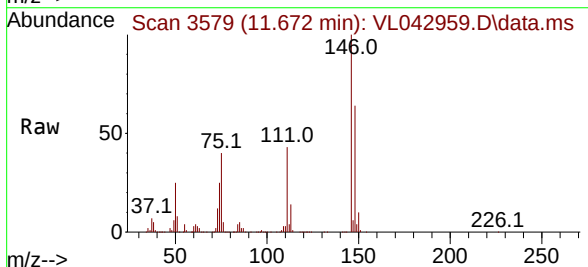
Tgt Ion:146 Resp: 369921

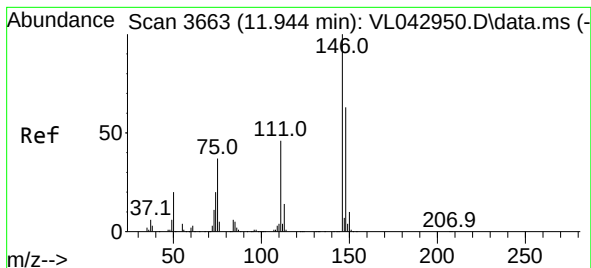
Ion Ratio Lower Upper

146 100

111 43.5 21.5 64.5

148 64.1 31.9 95.5





#77

1,2-Dichlorobenzene

Concen: 9.288 ppbv

RT: 11.947 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

VL0922ABS01

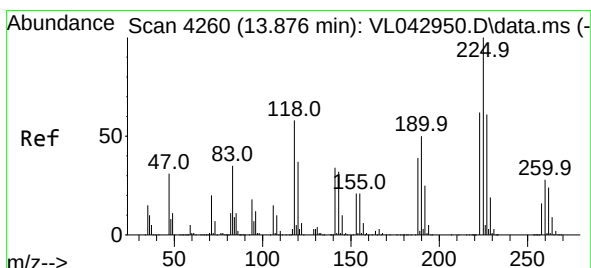
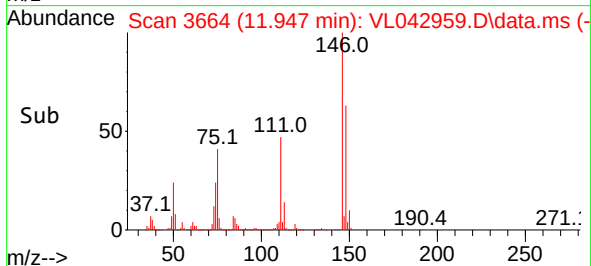
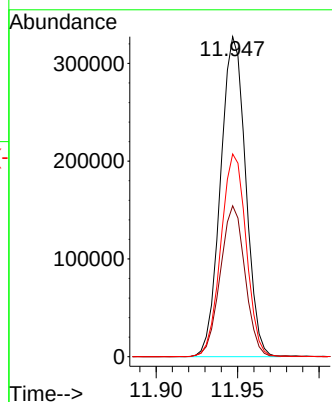
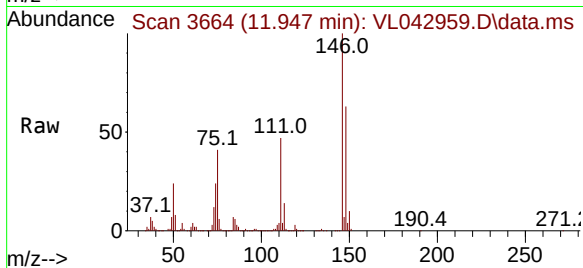
Tgt Ion:146 Resp: 350261

Ion Ratio Lower Upper

146 100

111 46.6 23.1 69.3

148 63.8 32.0 96.0



#78

Hexachloro-1,3-Butadiene

Concen: 8.366 ppbv

RT: 13.882 min Scan# 4262

Delta R.T. 0.007 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

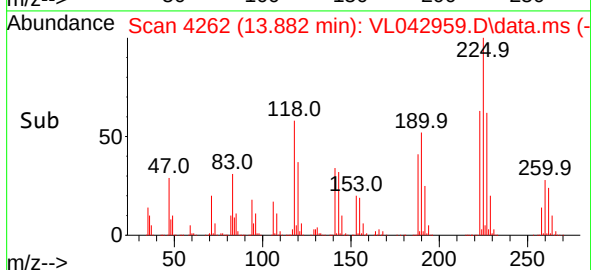
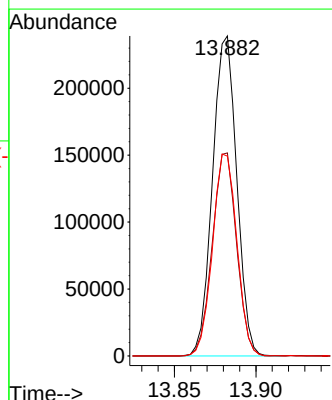
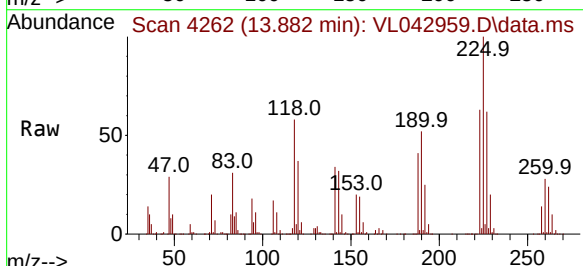
Tgt Ion:225 Resp: 246743

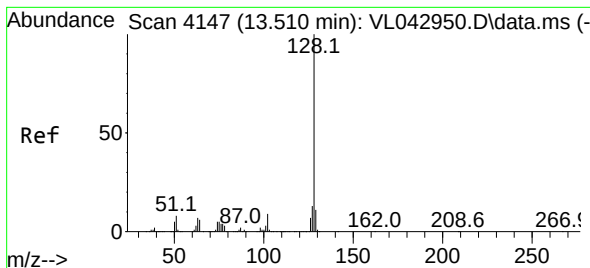
Ion Ratio Lower Upper

225 100

223 63.7 50.1 75.1

227 63.6 50.4 75.6





#79

Naphthalene

Concen: 10.259 ppbv

RT: 13.514 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

Instrument :

MSVOA_L

ClientSampleId :

VL0922ABS01

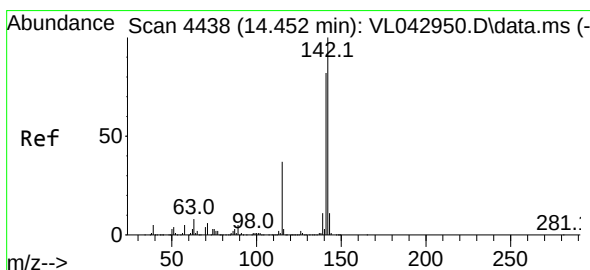
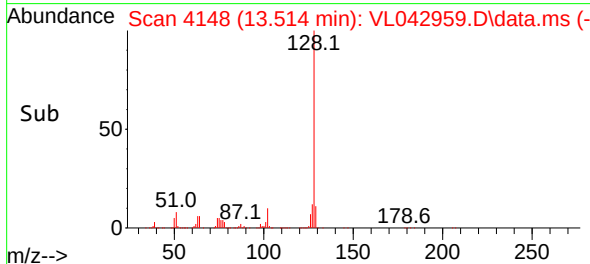
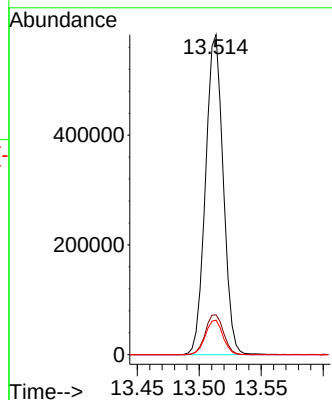
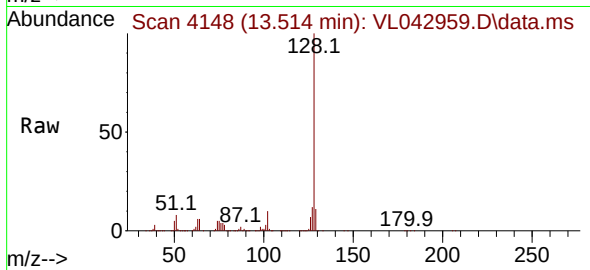
Tgt Ion:128 Resp: 579760

Ion Ratio Lower Upper

128 100

127 12.4 10.6 15.8

129 10.8 9.0 13.6



#80

Naphthalene,2-methyl-

Concen: 9.581 ppbv

RT: 14.455 min Scan# 4439

Delta R.T. 0.003 min

Lab File: VL042959.D

Acq: 22 Sep 2025 15:52

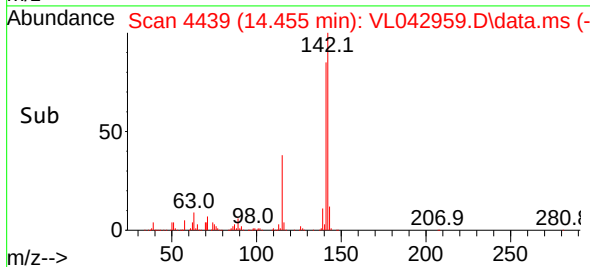
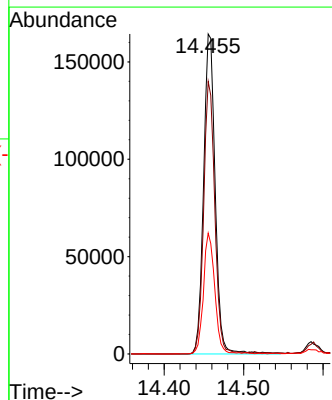
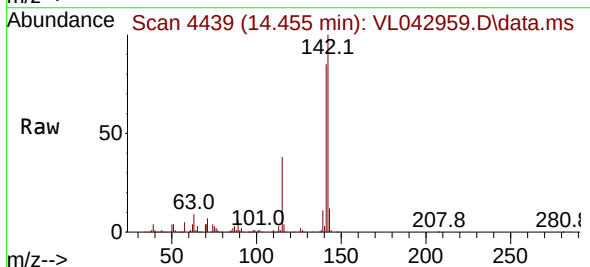
Tgt Ion:142 Resp: 167256

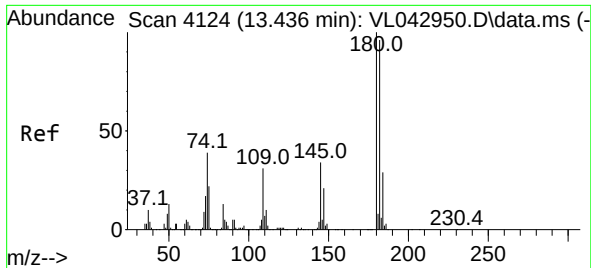
Ion Ratio Lower Upper

142 100

141 82.9 65.1 97.7

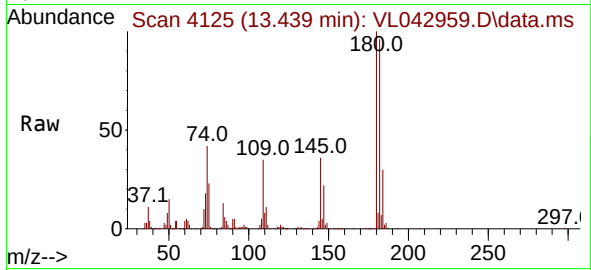
115 37.4 28.9 43.3



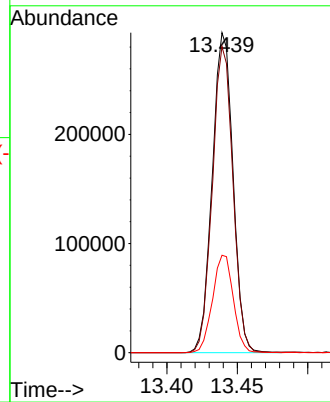
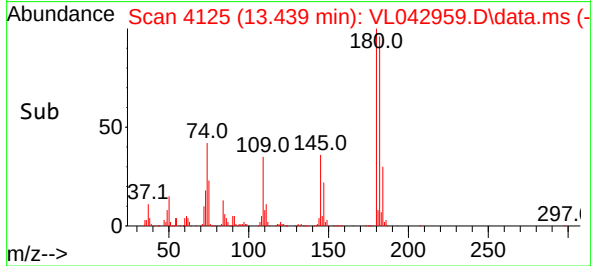


#81
 1,2,4-Trichlorobenzene
 Concen: 9.958 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042959.D
 Acq: 22 Sep 2025 15:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0922ABS01



Tgt Ion:180 Resp: 300876
 Ion Ratio Lower Upper
 180 100
 182 95.0 75.7 113.5
 184 30.6 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042970.D
 Acq On : 22 Sep 2025 22:48
 Operator : SY/MD
 Sample : Q3130-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 131-1A-2DUP

Quant Time: Sep 23 02:57:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

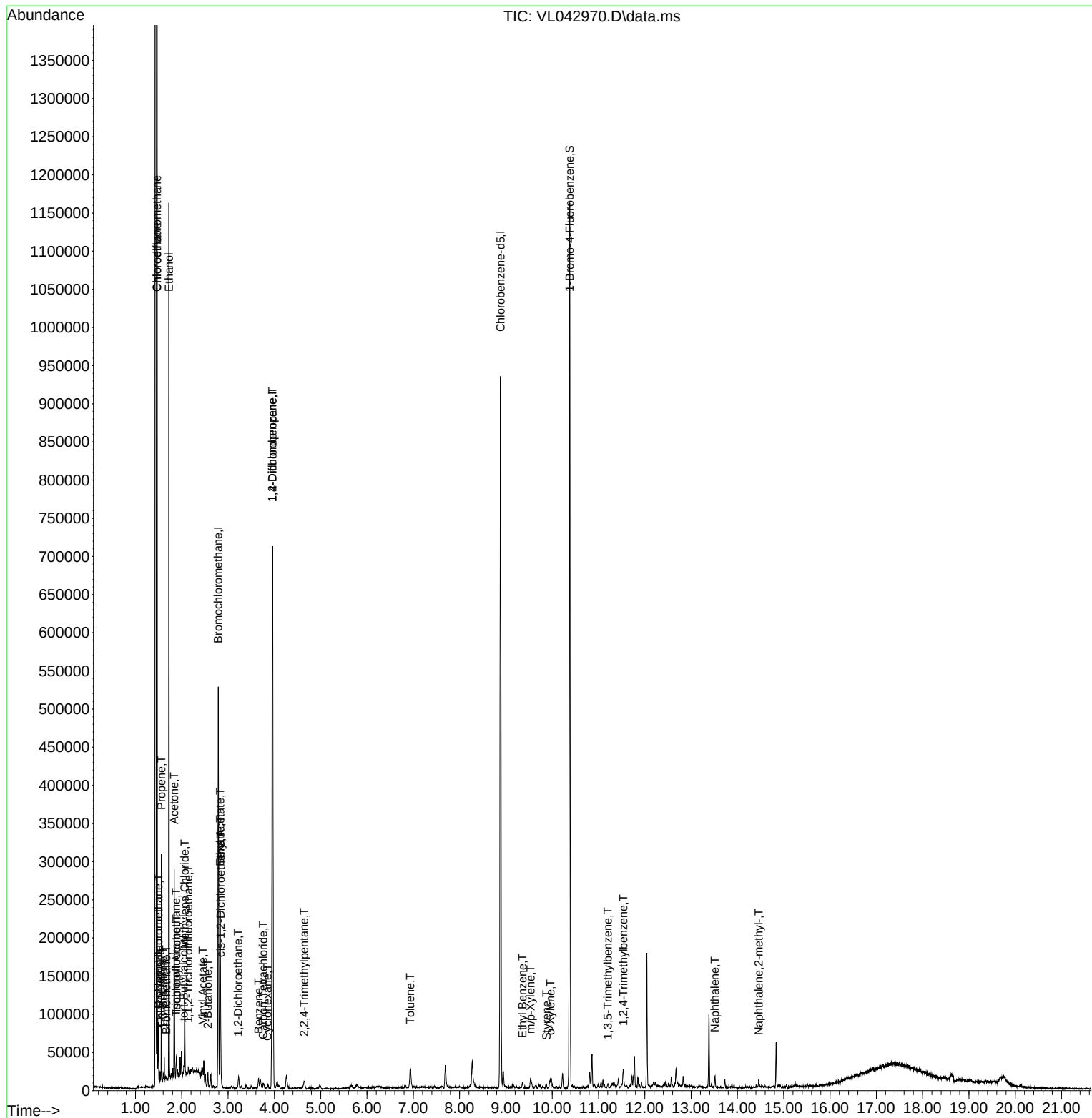
Internal Standards						
1) Bromochloromethane	2.787	49	146991	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	437140	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	389571	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	296189	10.185	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8516	0.431	ppbv	92
3) Chlorodifluoromethane	1.467	51	561845	22.801	ppbv #	61
4) Chloromethane	1.535	50	3652	0.408	ppbv	97
6) Bromomethane	1.671	94	148	0.052	ppbv #	73
7) Chloroethane	1.467	64	27415	8.727	ppbv	96
9) Propene	1.561	41	25773	2.404	ppbv	91
11) Trichlorofluoromethane	1.881	101	4422	0.232	ppbv	98
12) 1,1,2-Trichlorotri fluo...	2.140	101	952	0.062	ppbv	96
13) Ethanol	1.722	45	384814	370.048	ppbv	95
15) Acetone	1.836	43	118525	6.191	ppbv	96
16) 1,3-Butadiene	1.599	39	1408	0.156	ppbv #	61
17) tert-Butyl alcohol	2.043	59	4197	0.200	ppbv #	82
19) Isopropyl Alcohol	1.887	45	9512	0.826	ppbv #	1
20) Methylene Chloride	2.062	84	14366	1.980	ppbv	97
23) Vinyl Acetate	2.454	43	9099	0.333	ppbv #	91
25) Ethyl Acetate	2.829	43	65319	1.350	ppbv #	92
26) Hexane	2.829	57	53388	2.421	ppbv #	61
30) Cyclohexane	3.852	84	763	0.041	ppbv #	1
31) cis-1,2-Dichloroethene	2.839	61	3462	0.168	ppbv #	24
34) 2-Butanone	2.561	43	11487	0.375	ppbv #	86
35) Carbon Tetrachloride	3.758	117	1168	0.041	ppbv	84
36) Benzene	3.661	78	7565	0.184	ppbv #	90
37) 1,2-Dichloroethane	3.218	62	3337	0.155	ppbv #	93
39) 1,2-Dichloropropane	3.959	63	108795	7.260	ppbv #	23
44) 2,2,4-Trimethylpentane	4.645	57	6315	0.089	ppbv #	44
53) Toluene	6.937	91	18244	0.375	ppbv	100
58) Ethyl Benzene	9.358	91	3940	0.062	ppbv	89
59) m/p-Xylene	9.532	91	6145	0.122	ppbv #	100
60) o-Xylene	9.963	91	3183	0.063	ppbv	95
61) Styrene	9.879	104	1637	0.069	ppbv	90
73) 1,3,5-Trimethylbenzene	11.202	105	1741	0.034	ppbv #	81
74) 1,2,4-Trimethylbenzene	11.536	105	5151	0.091	ppbv #	68
79) Naphthalene	13.513	128	7088	0.142	ppbv	97
80) Naphthalene,2-methyl-	14.459	142	3693	0.239	ppbv	94

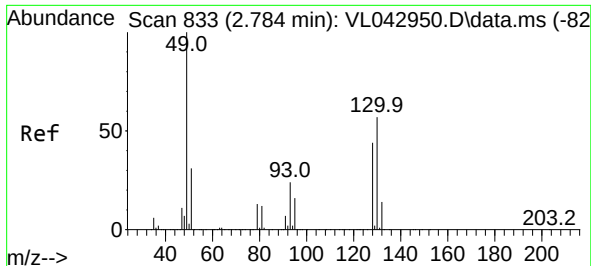
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042970.D
Acq On : 22 Sep 2025 22:48
Operator : SY/MD
Sample : Q3130-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP

Quant Time: Sep 23 02:57:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

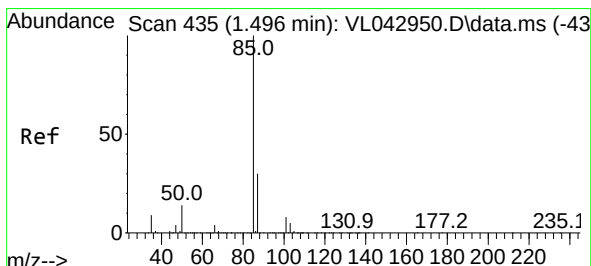
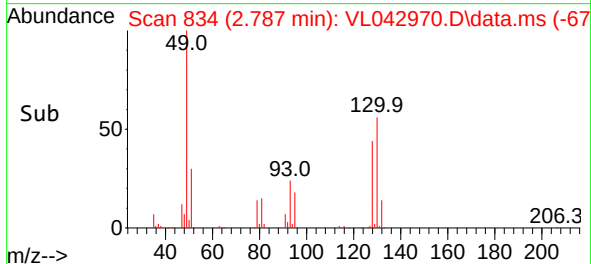
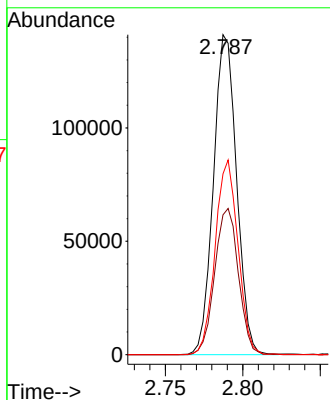
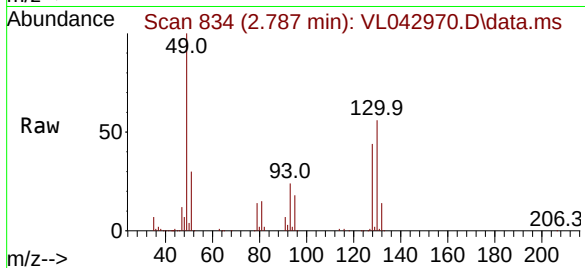




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

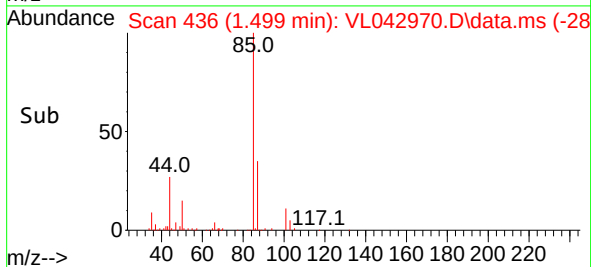
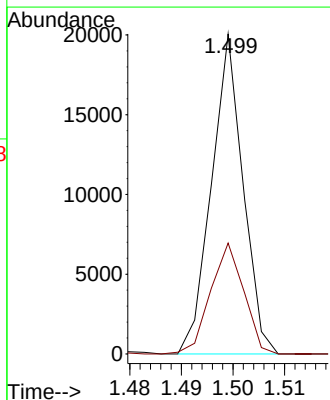
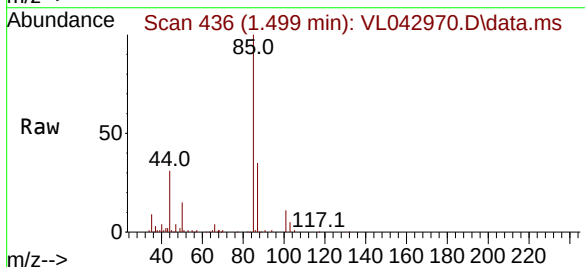
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP

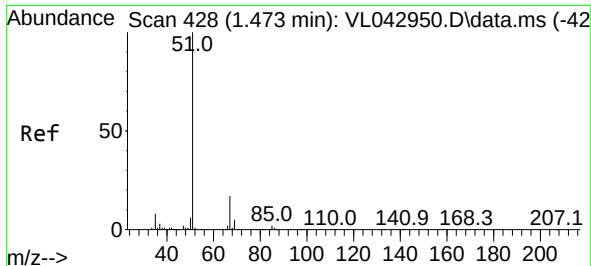
Tgt Ion: 49 Resp: 146991
Ion Ratio Lower Upper
49 100
128 46.9 22.9 68.8
130 59.9 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 0.431 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Tgt Ion: 85 Resp: 8516
Ion Ratio Lower Upper
85 100
87 34.7 24.3 36.5

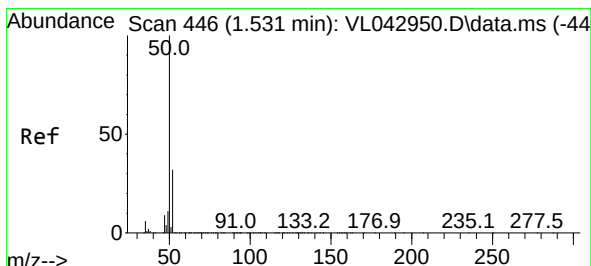
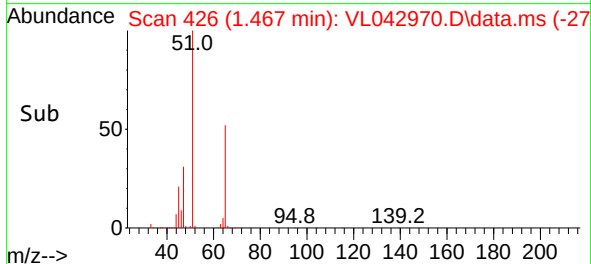
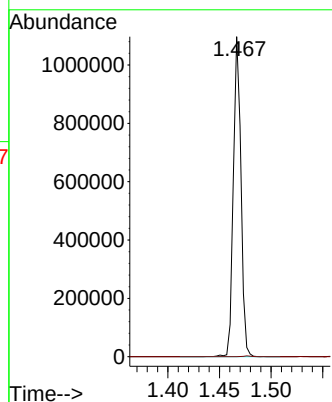
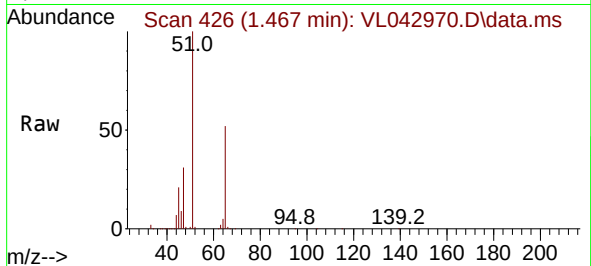




#3
Chlorodifluoromethane
Concen: 22.801 ppbv
RT: 1.467 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

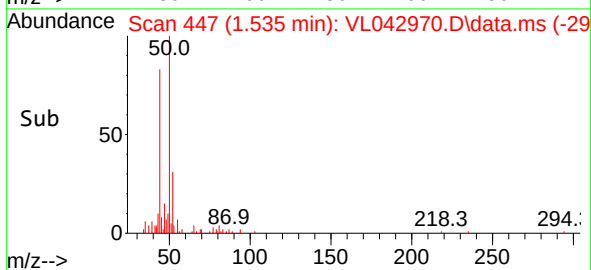
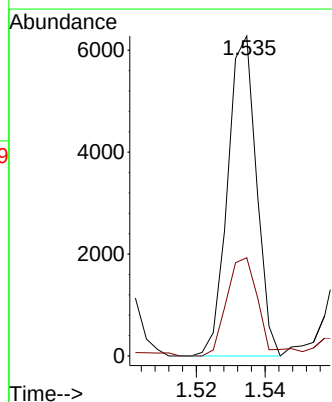
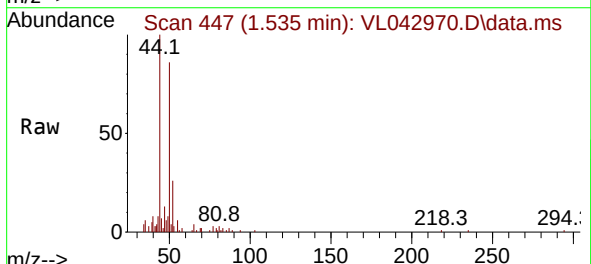
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP

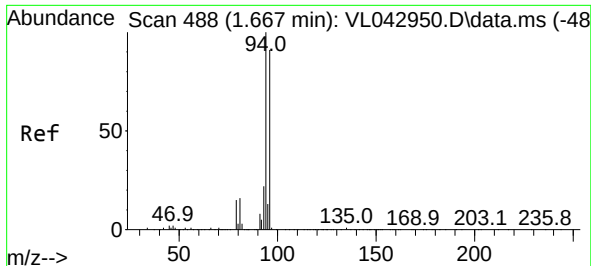
Tgt Ion: 51 Resp: 561845
Ion Ratio Lower Upper
51 100
67 0.2 13.8 20.8#



#4
Chloromethane
Concen: 0.408 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Tgt Ion: 50 Resp: 3652
Ion Ratio Lower Upper
50 100
52 34.3 25.9 38.9

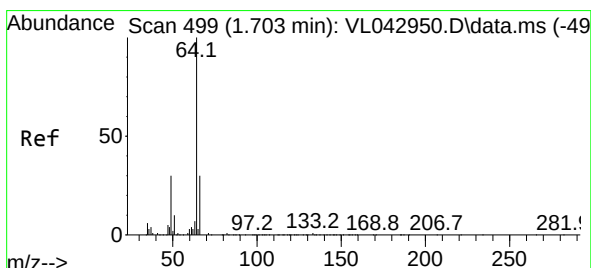
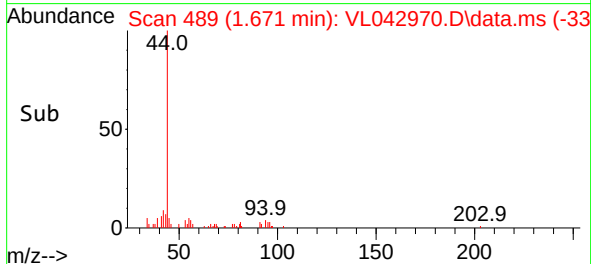
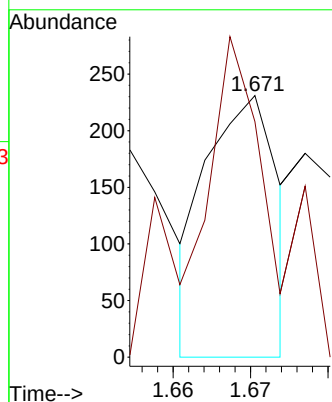
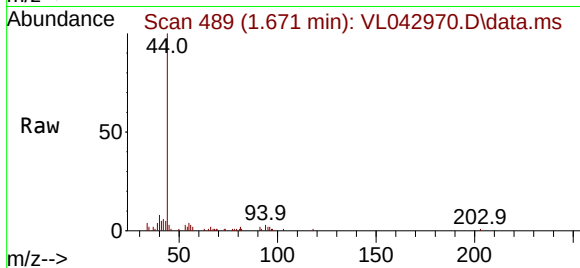




#6
Bromomethane
Concen: 0.052 ppbv
RT: 1.671 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

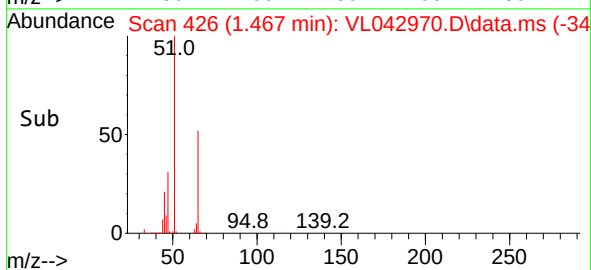
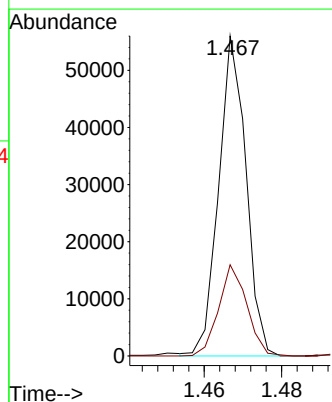
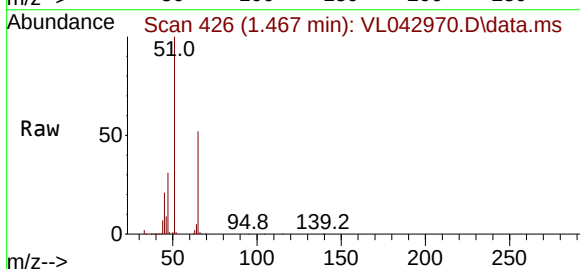
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP

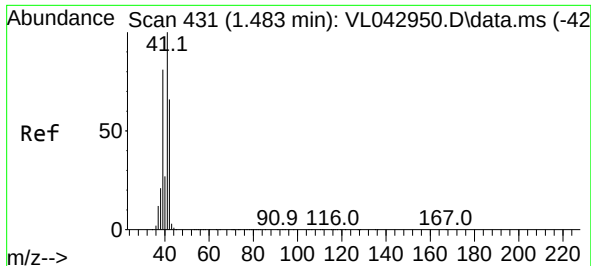
Tgt Ion: 94 Resp: 148
Ion Ratio Lower Upper
94 100
96 116.0 72.6 108.8#



#7
Chloroethane
Concen: 8.727 ppbv
RT: 1.467 min Scan# 426
Delta R.T. -0.236 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Tgt Ion: 64 Resp: 27415
Ion Ratio Lower Upper
64 100
66 28.5 24.6 36.8





#9

Propene

Concen: 2.404 ppbv

RT: 1.561 min Scan# 41

Delta R.T. 0.078 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

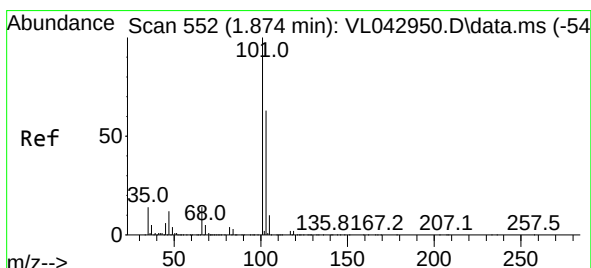
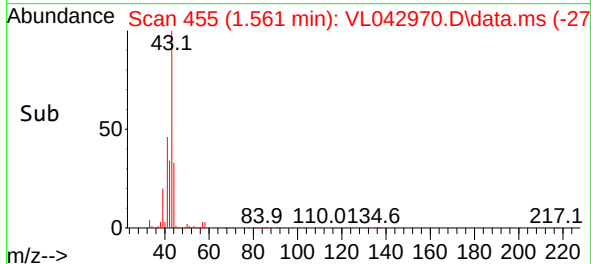
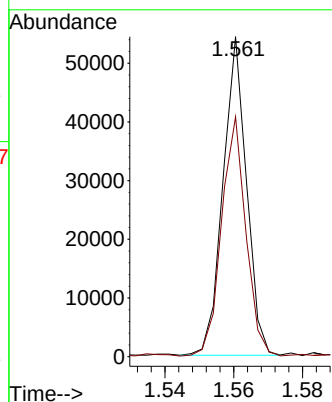
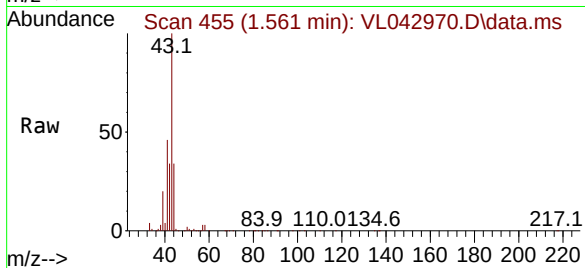
131-1A-2DUP

Tgt Ion: 41 Resp: 25773

Ion Ratio Lower Upper

41 100

42 79.2 57.4 86.2



#11

Trichlorofluoromethane

Concen: 0.232 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.007 min

Lab File: VL042970.D

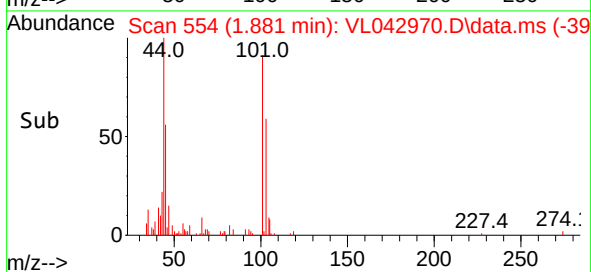
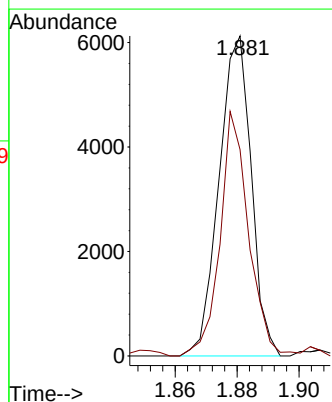
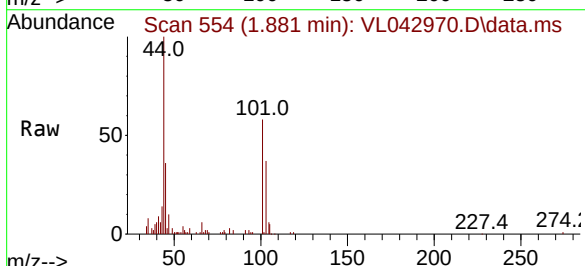
Acq: 22 Sep 2025 22:48

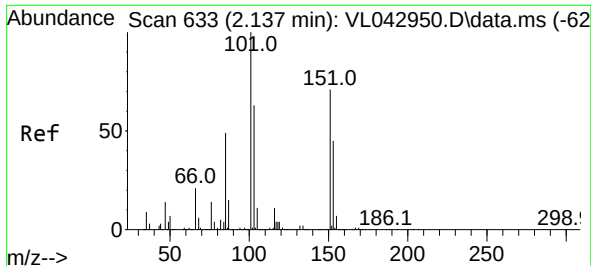
Tgt Ion: 101 Resp: 4422

Ion Ratio Lower Upper

101 100

103 64.5 50.1 75.1

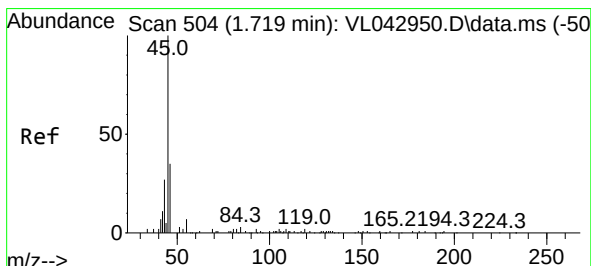
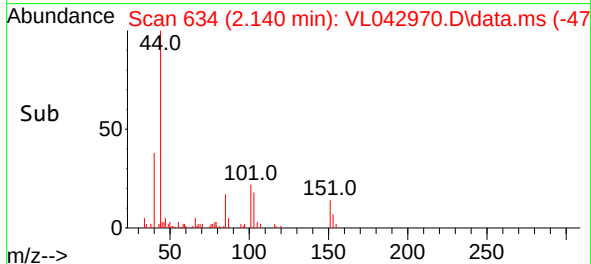
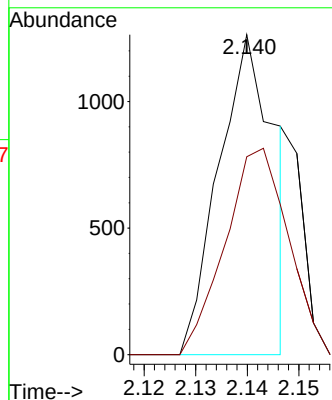
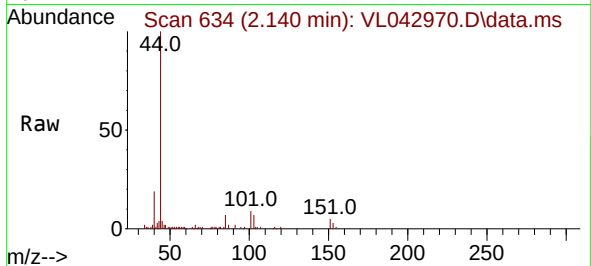




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.062 ppbv
RT: 2.140 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

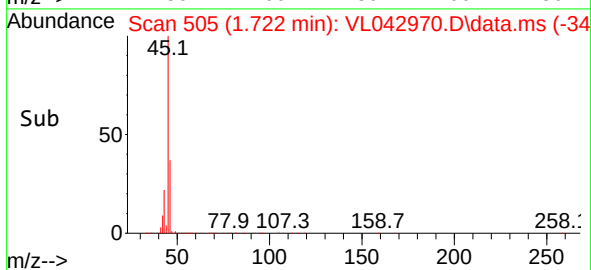
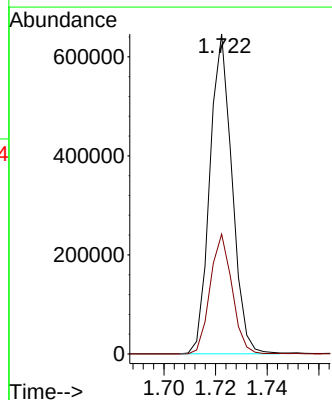
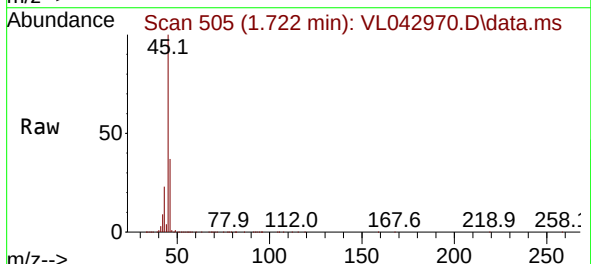
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP

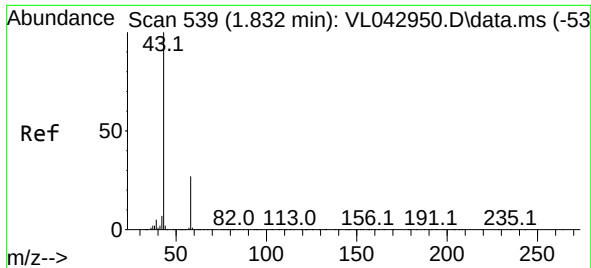
Tgt Ion:101 Resp: 952
Ion Ratio Lower Upper
101 100
151 72.8 55.7 83.5



#13
Ethanol
Concen: 370.048 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Tgt Ion: 45 Resp: 384814
Ion Ratio Lower Upper
45 100
46 37.3 16.2 64.6





#15

Acetone

Concen: 6.191 ppbv

RT: 1.836 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

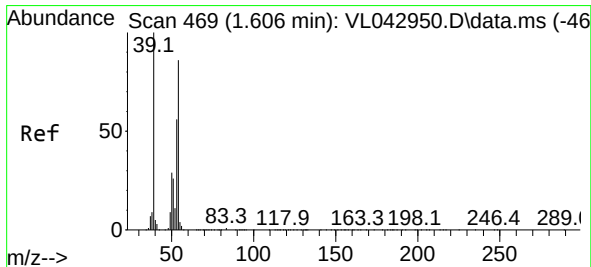
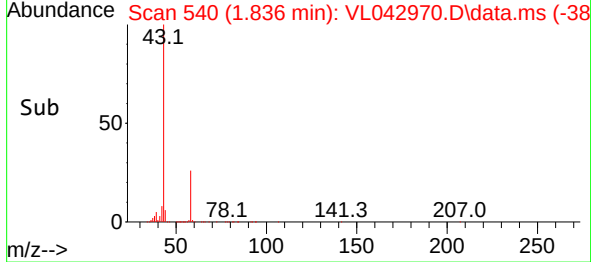
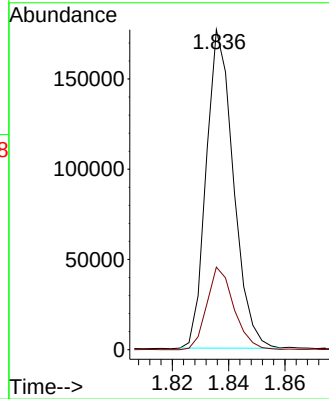
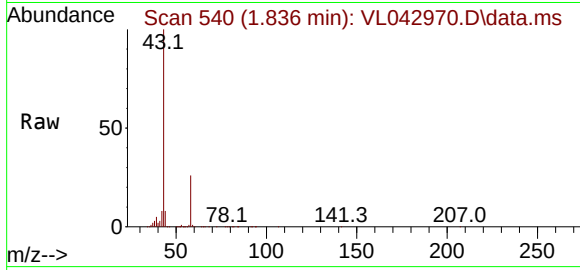
131-1A-2DUP

Tgt Ion: 43 Resp: 118525

Ion Ratio Lower Upper

43 100

58 25.8 22.3 33.5



#16

1,3-Butadiene

Concen: 0.156 ppbv

RT: 1.599 min Scan# 467

Delta R.T. -0.006 min

Lab File: VL042970.D

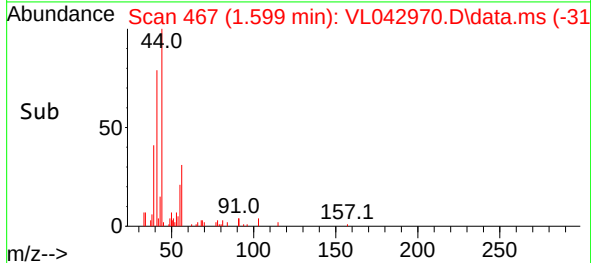
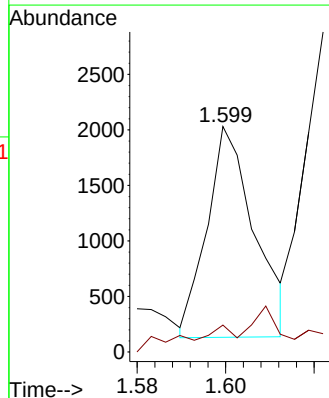
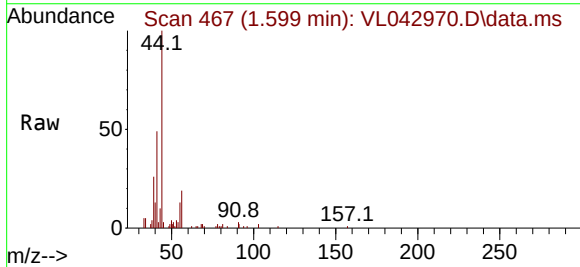
Acq: 22 Sep 2025 22:48

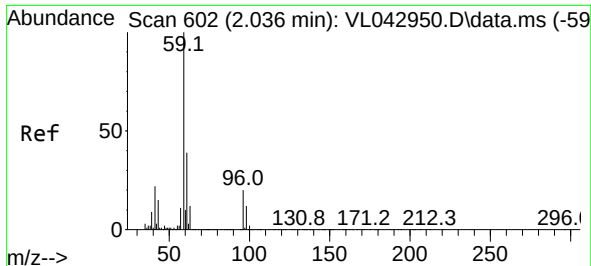
Tgt Ion: 39 Resp: 1408

Ion Ratio Lower Upper

39 100

54 42.8 60.8 91.2#





#17

tert-Butyl alcohol

Concen: 0.200 ppbv

RT: 2.043 min Scan# 602

Delta R.T. 0.007 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

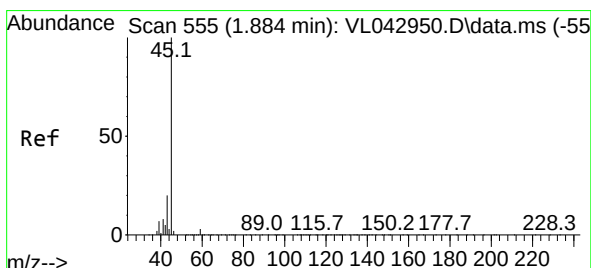
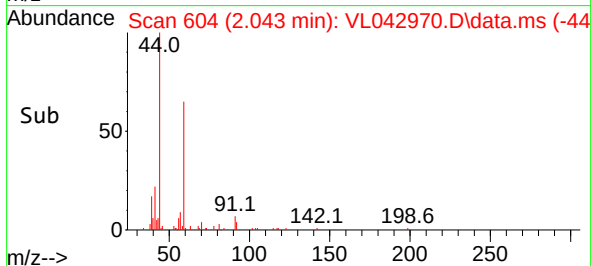
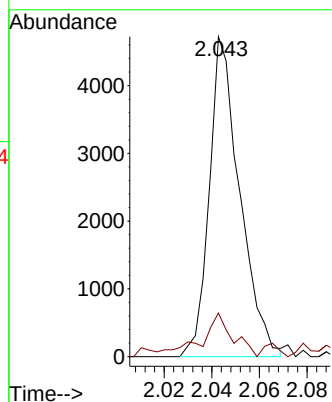
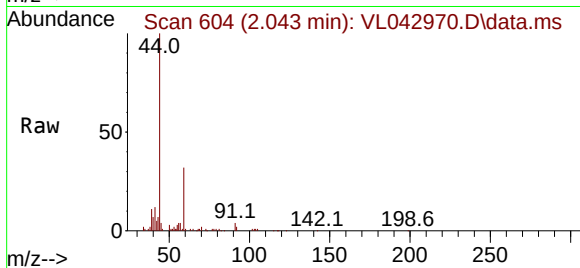
131-1A-2DUP

Tgt Ion: 59 Resp: 4197

Ion Ratio Lower Upper

59 100

57 17.4 8.6 12.8#



#19

Isopropyl Alcohol

Concen: 0.826 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042970.D

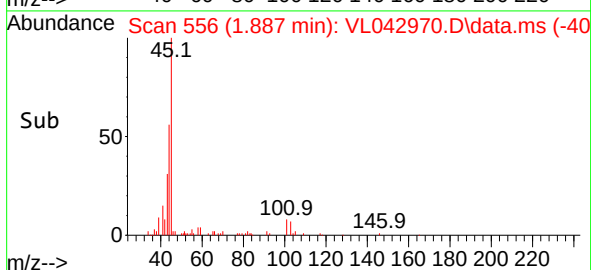
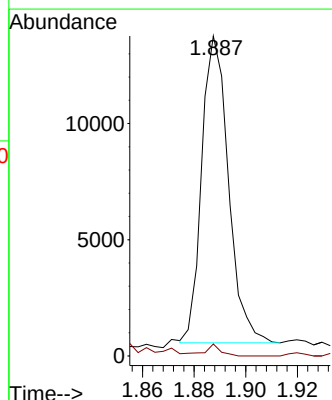
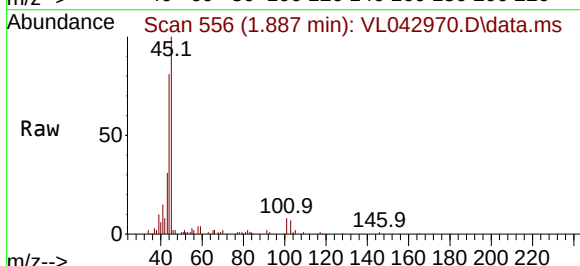
Acq: 22 Sep 2025 22:48

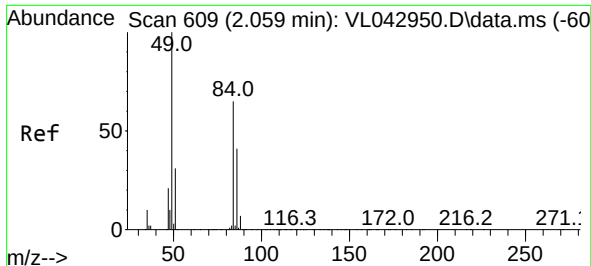
Tgt Ion: 45 Resp: 9512

Ion Ratio Lower Upper

45 100

58 326.6 31.0 46.6#





#20

Methylene Chloride

Concen: 1.980 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

131-1A-2DUP

Tgt Ion: 84 Resp: 14366

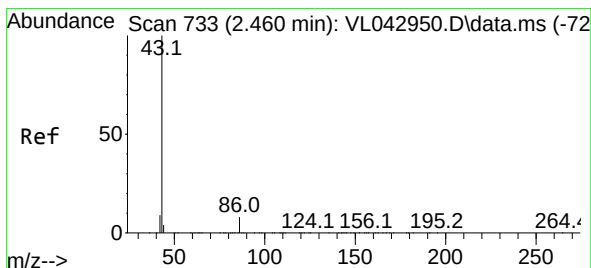
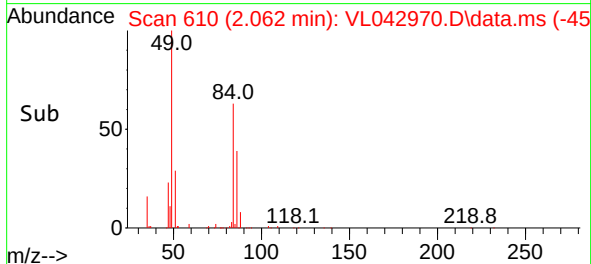
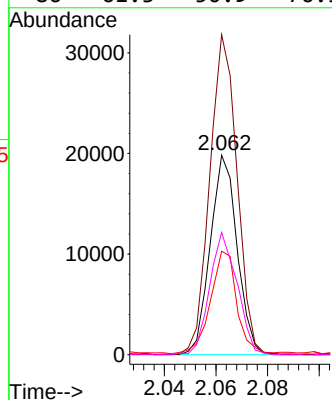
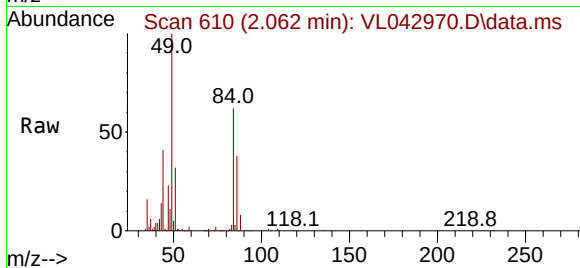
Ion Ratio Lower Upper

84 100

49 160.1 124.1 186.1

51 50.7 39.8 59.8

86 61.3 50.9 76.3



#23

Vinyl Acetate

Concen: 0.333 ppbv

RT: 2.454 min Scan# 731

Delta R.T. -0.006 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Tgt Ion: 43 Resp: 9099

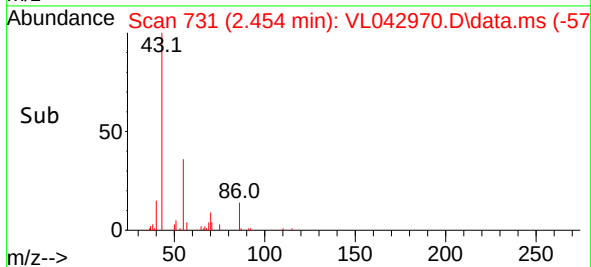
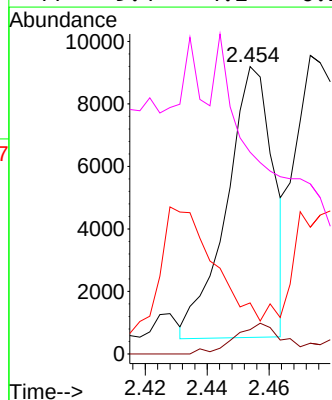
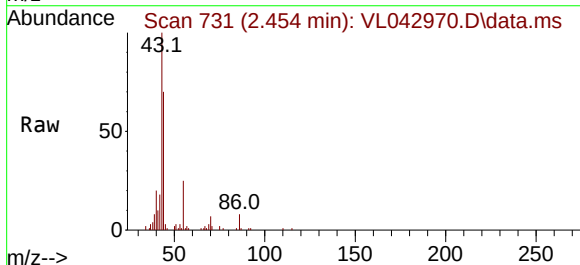
Ion Ratio Lower Upper

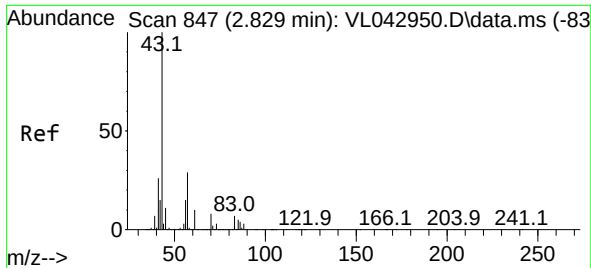
43 100

86 9.4 6.2 9.2#

42 5.6 7.4 11.0#

44 9.4 4.2 6.2#

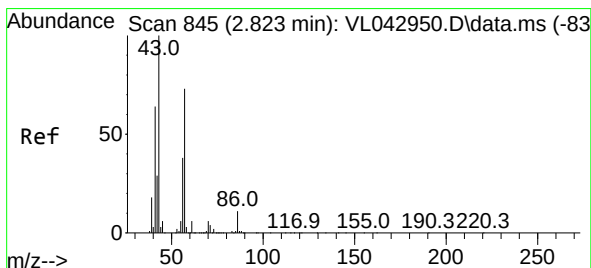
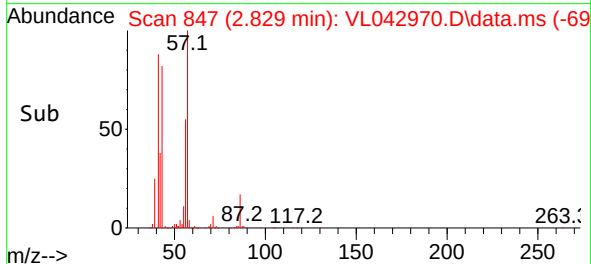
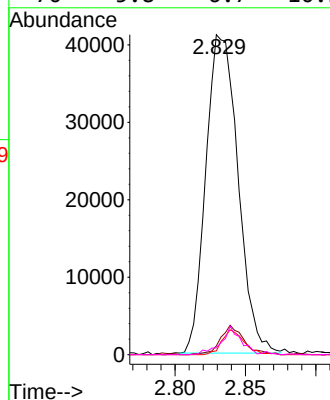
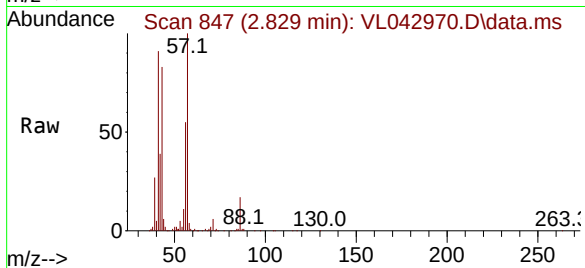




#25
Ethyl Acetate
Concen: 1.350 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

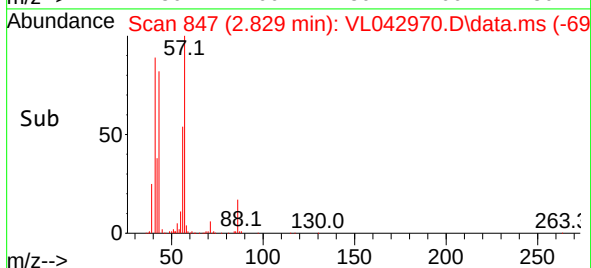
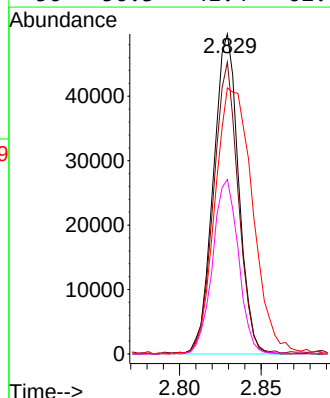
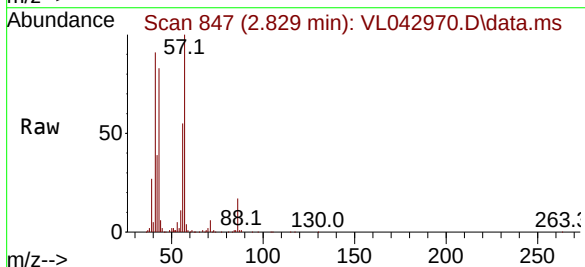
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP

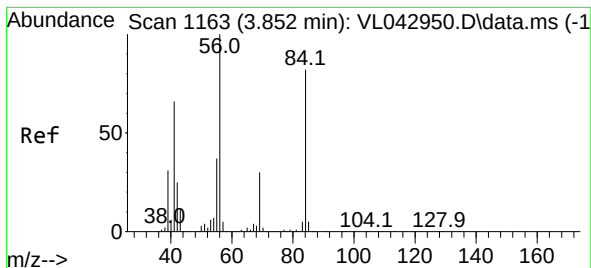
Tgt Ion:	43	Resp:	65319
Ion	Ratio	Lower	Upper
43	100		
45	7.1	7.7	11.5#
61	5.4	7.1	10.7#
70	5.8	6.7	10.1#



#26
Hexane
Concen: 2.421 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.007 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Tgt Ion:	57	Resp:	53388
Ion	Ratio	Lower	Upper
57	100		
41	89.4	71.7	107.5
43	124.3	180.8	271.2#
56	56.3	41.4	62.0





#30

Cyclohexane

Concen: 0.041 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.000 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

131-1A-2DUP

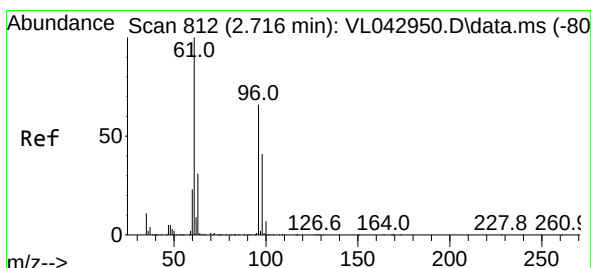
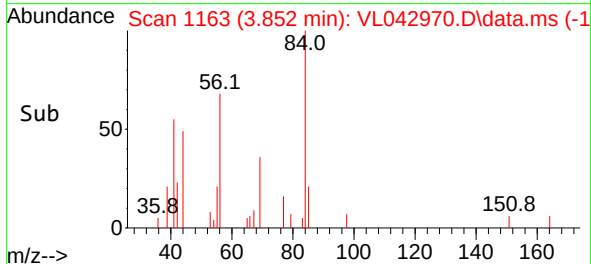
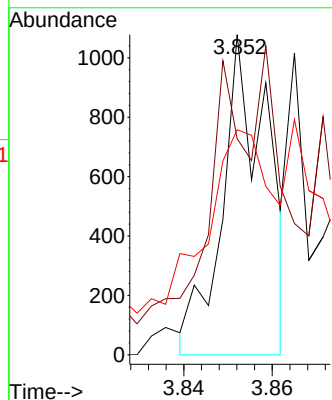
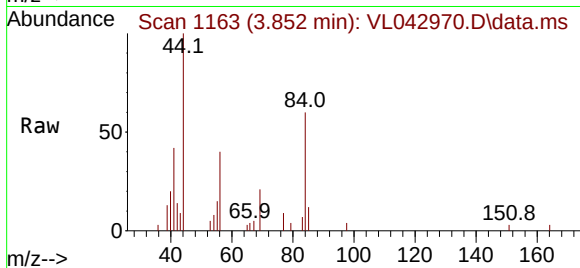
Tgt Ion: 84 Resp: 763

Ion Ratio Lower Upper

84 100

56 0.0 102.2 153.4#

41 0.0 65.6 98.4#



#31

cis-1,2-Dichloroethene

Concen: 0.168 ppbv

RT: 2.839 min Scan# 850

Delta R.T. 0.123 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

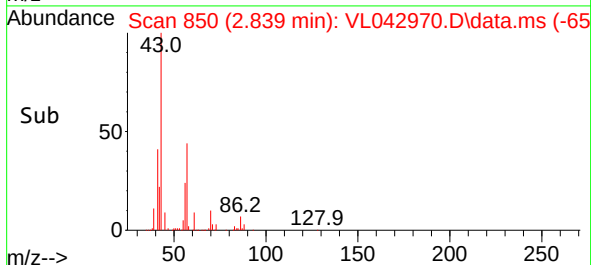
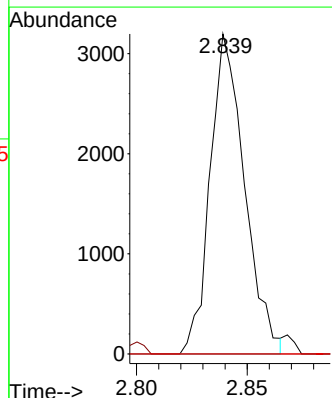
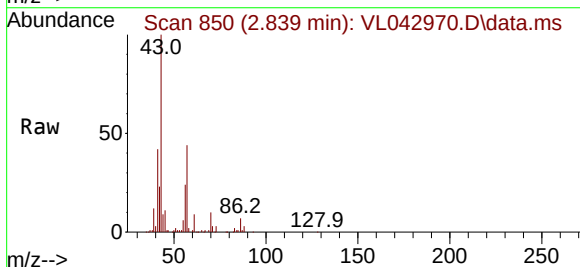
Tgt Ion: 61 Resp: 3462

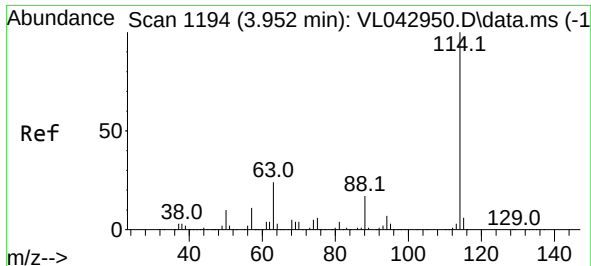
Ion Ratio Lower Upper

61 100

96 0.0 53.0 79.6#

98 0.0 32.9 49.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.007 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

131-1A-2DUP

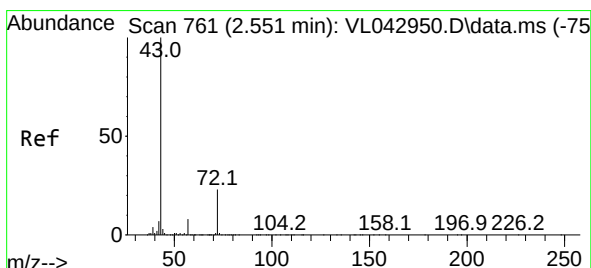
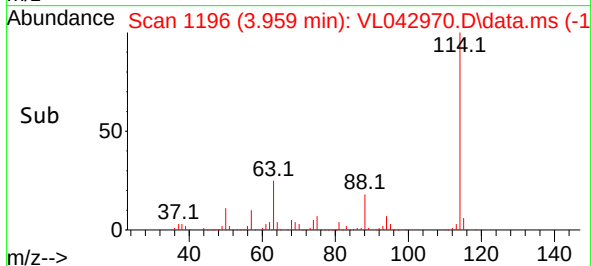
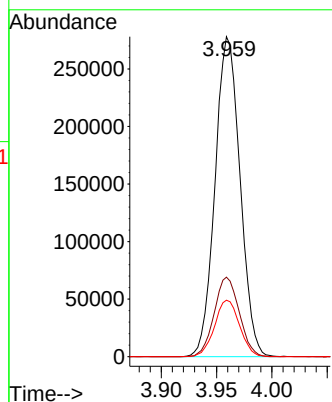
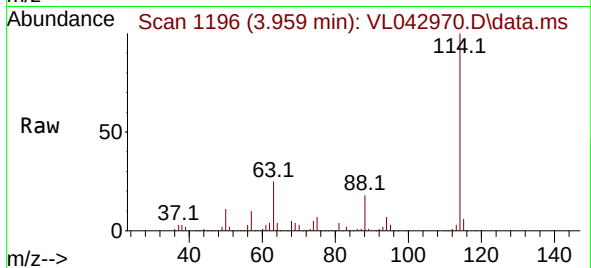
Tgt Ion:114 Resp: 437140

Ion Ratio Lower Upper

114 100

63 24.9 19.4 29.2

88 17.7 14.2 21.2



#34

2-Butanone

Concen: 0.375 ppbv

RT: 2.561 min Scan# 764

Delta R.T. 0.010 min

Lab File: VL042970.D

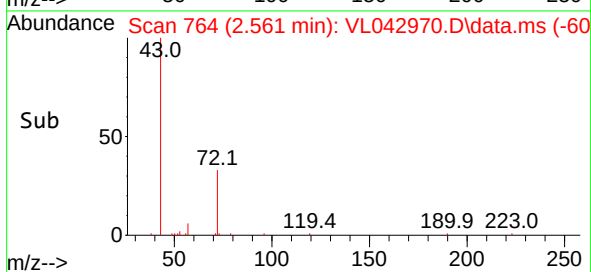
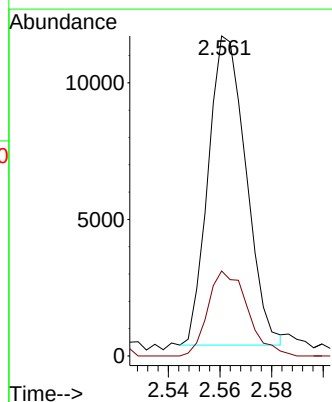
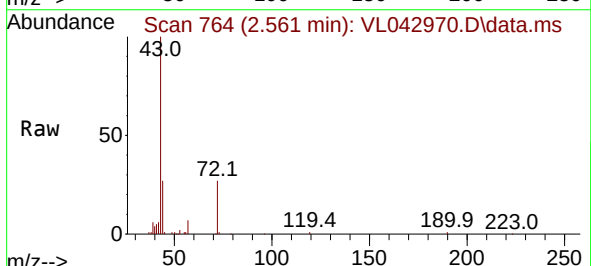
Acq: 22 Sep 2025 22:48

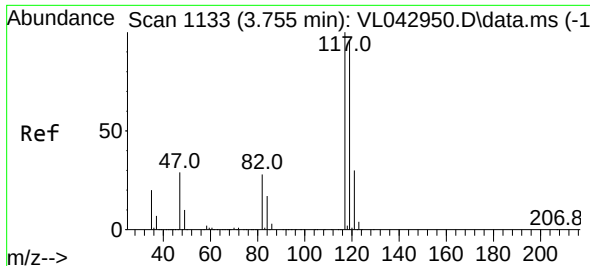
Tgt Ion: 43 Resp: 11487

Ion Ratio Lower Upper

43 100

72 28.9 17.7 26.5#

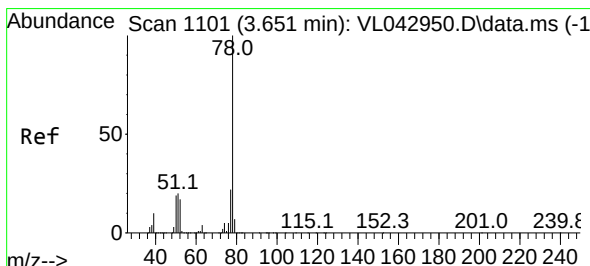
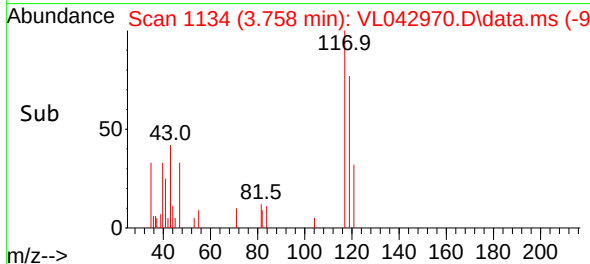
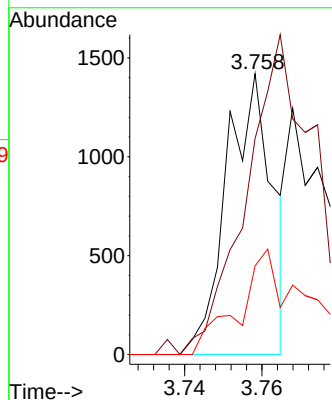
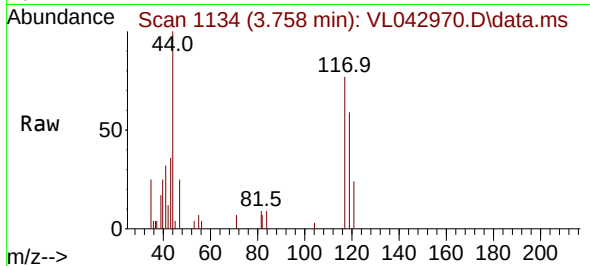




#35
Carbon Tetrachloride
Concen: 0.041 ppbv
RT: 3.758 min Scan# 1133
Delta R.T. 0.003 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

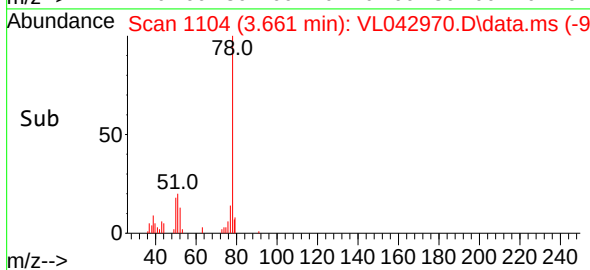
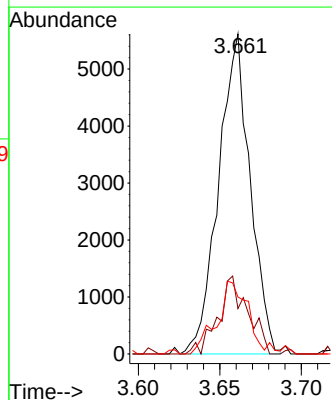
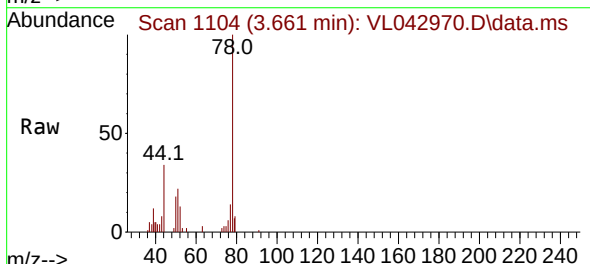
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP

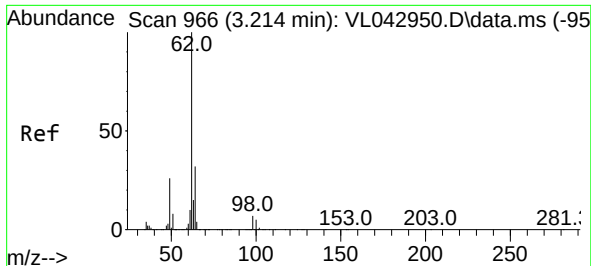
Tgt Ion:117 Resp: 1168
Ion Ratio Lower Upper
117 100
119 76.9 76.9 115.3
121 31.5 23.7 35.5



#36
Benzene
Concen: 0.184 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.010 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Tgt Ion: 78 Resp: 7565
Ion Ratio Lower Upper
78 100
77 14.2 17.8 26.6#
50 17.8 15.0 22.4





#37

1,2-Dichloroethane

Concen: 0.155 ppbv

RT: 3.218 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

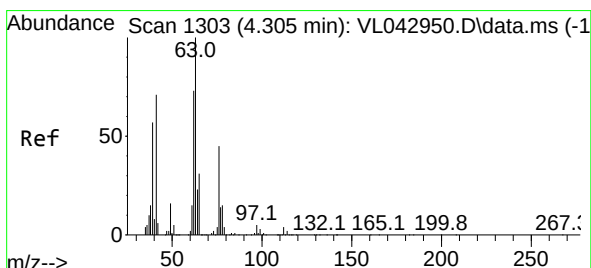
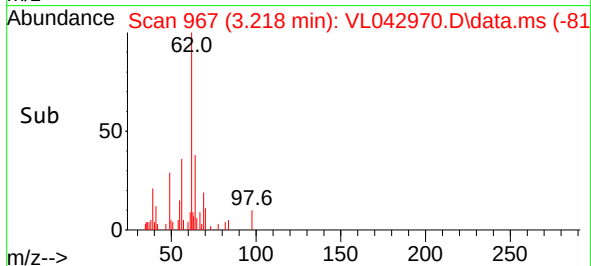
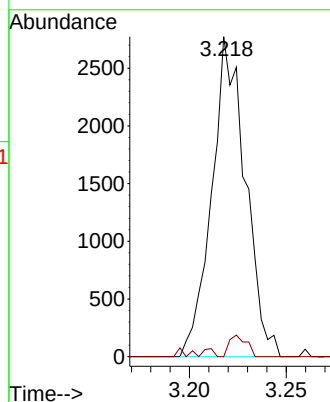
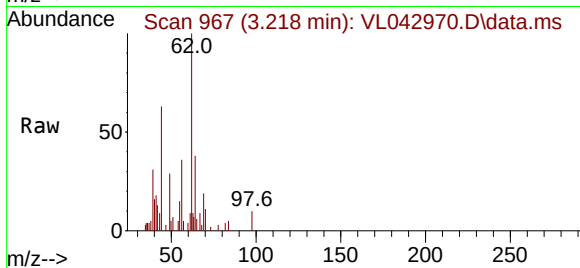
131-1A-2DUP

Tgt Ion: 62 Resp: 3337

Ion Ratio Lower Upper

62 100

98 5.0 5.9 8.9#



#39

1,2-Dichloropropane

Concen: 7.260 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.346 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

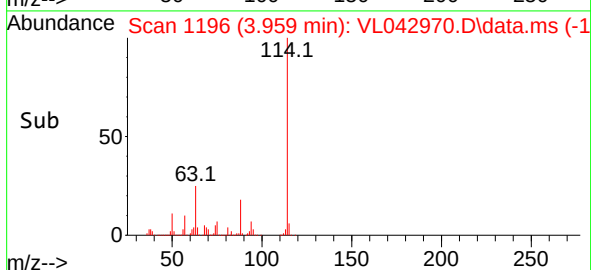
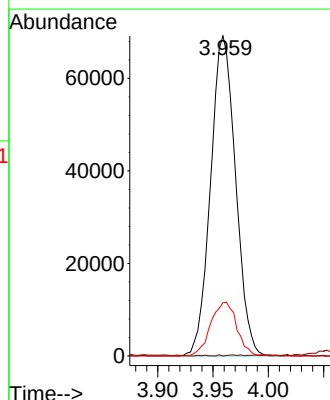
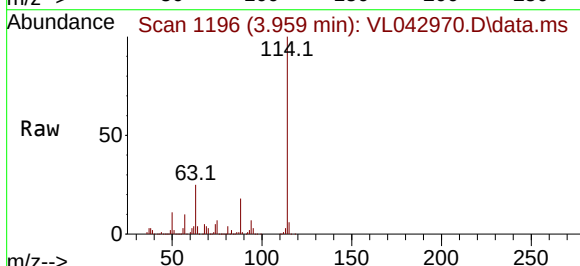
Tgt Ion: 63 Resp: 108795

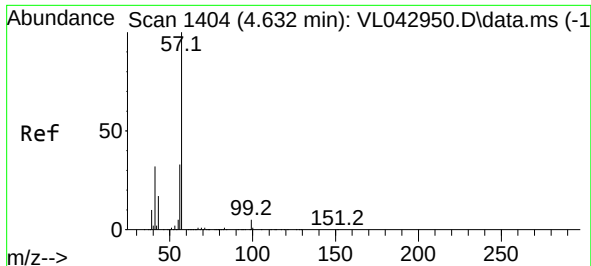
Ion Ratio Lower Upper

63 100

41 0.0 57.5 86.3#

62 16.6 58.5 87.7#

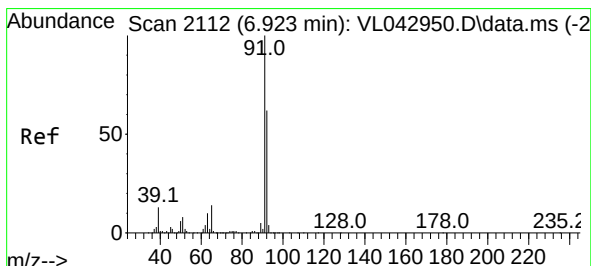
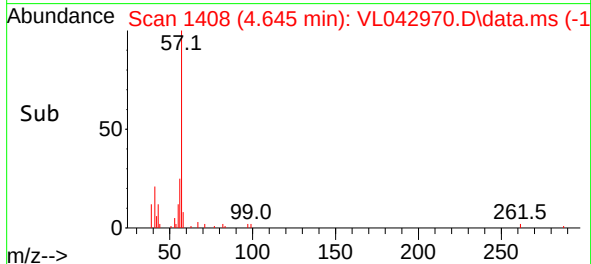
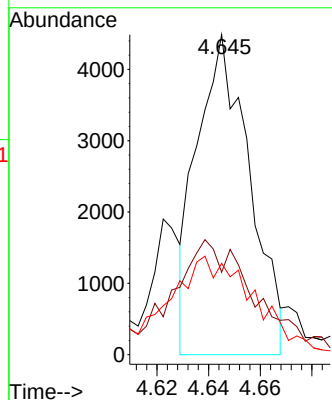
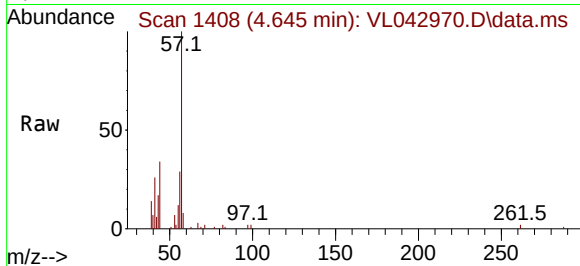




#44
2,2,4-Trimethylpentane
Concen: 0.089 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.013 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

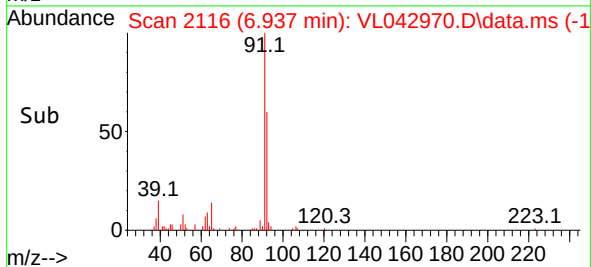
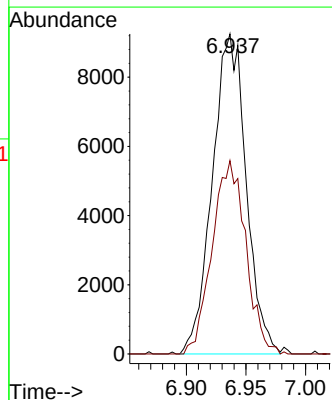
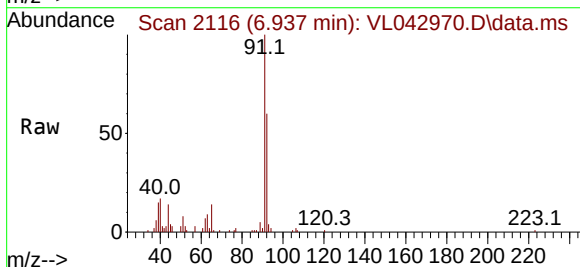
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP

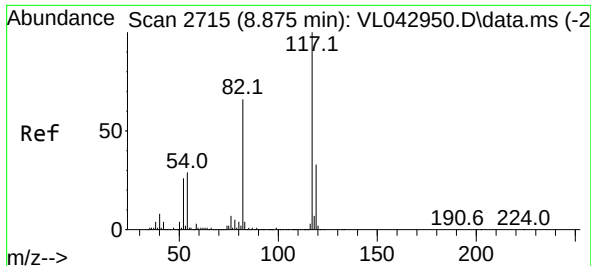
Tgt Ion: 57 Resp: 6315
Ion Ratio Lower Upper
57 100
41 68.4 25.5 38.3#
56 58.5 25.8 38.8#



#53
Toluene
Concen: 0.375 ppbv
RT: 6.937 min Scan# 2116
Delta R.T. 0.013 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Tgt Ion: 91 Resp: 18244
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.2

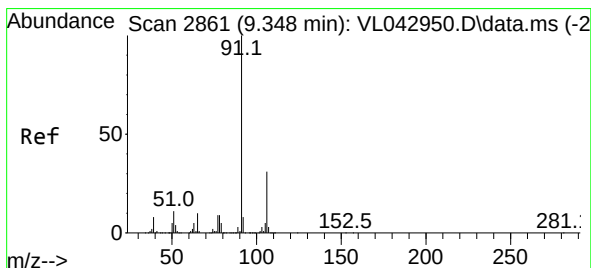
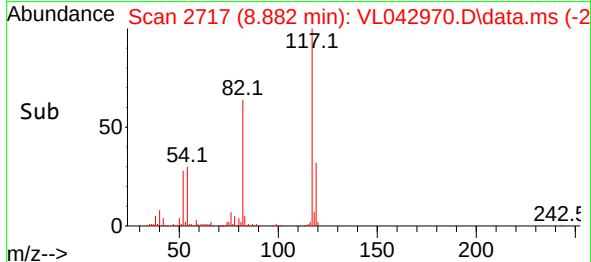
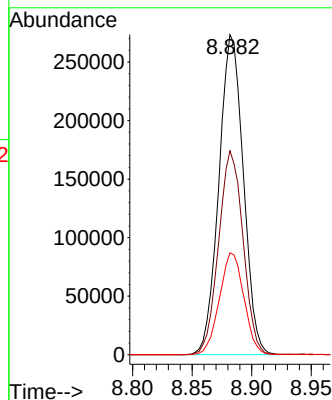
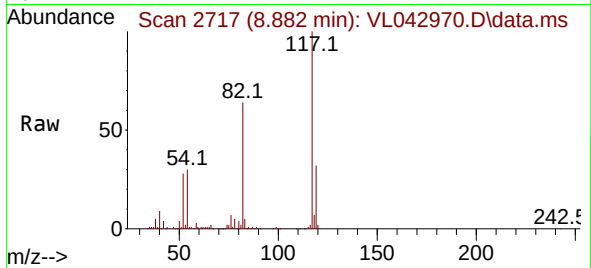




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 211
Delta R.T. 0.007 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

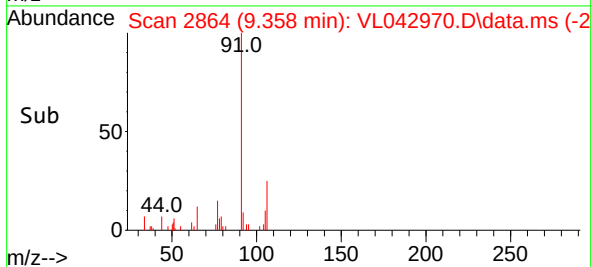
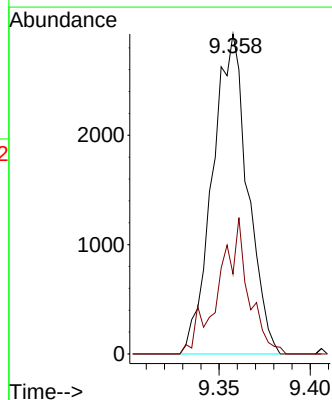
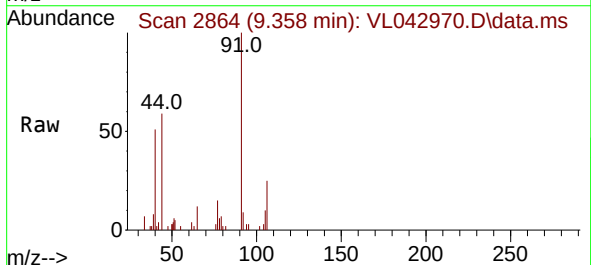
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP

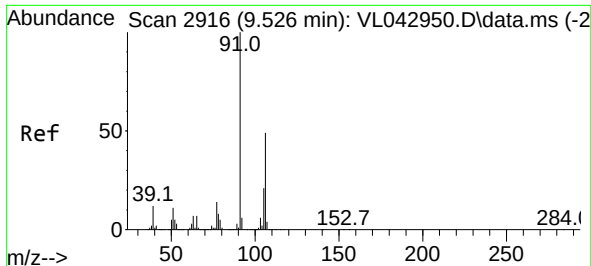
Tgt Ion:117 Resp: 389571
Ion Ratio Lower Upper
117 100
82 63.8 52.8 79.2
119 32.1 26.5 39.7



#58
Ethyl Benzene
Concen: 0.062 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.010 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Tgt Ion: 91 Resp: 3940
Ion Ratio Lower Upper
91 100
106 25.0 24.6 37.0





#59

m/p-Xylene

Concen: 0.122 ppbv

RT: 9.532 min Scan# 2916

Delta R.T. 0.007 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

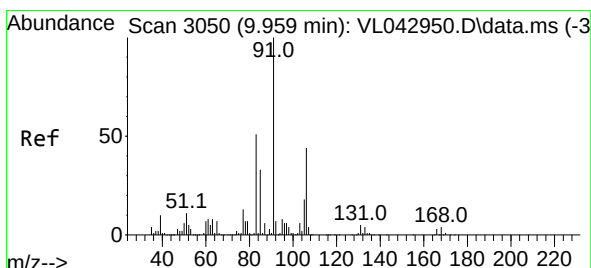
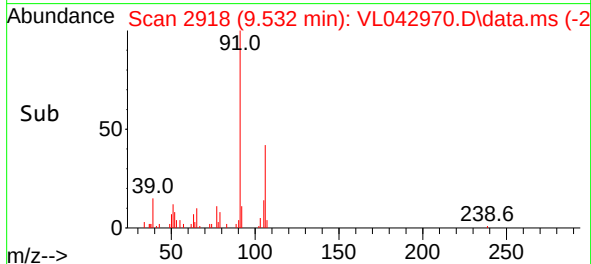
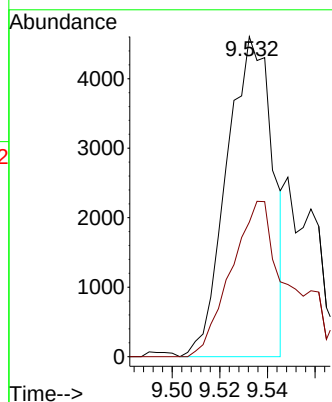
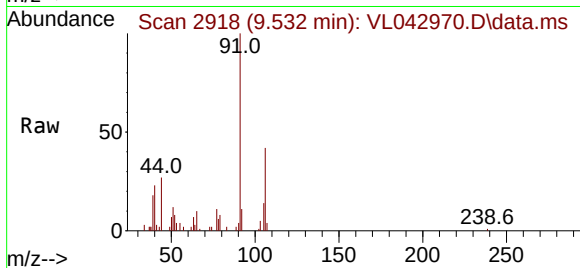
131-1A-2DUP

Tgt Ion: 91 Resp: 6145

Ion Ratio Lower Upper

91 100

106 63.8 0.0 0.0#



#60

o-Xylene

Concen: 0.063 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.003 min

Lab File: VL042970.D

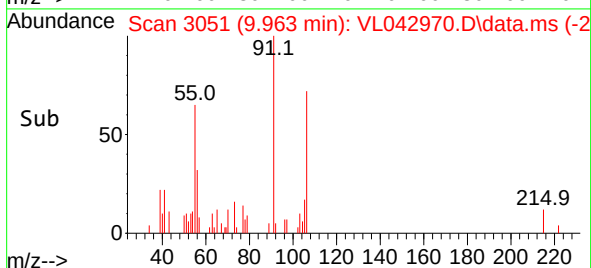
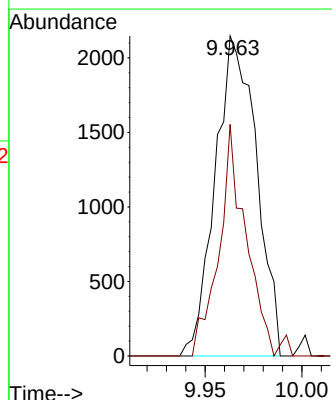
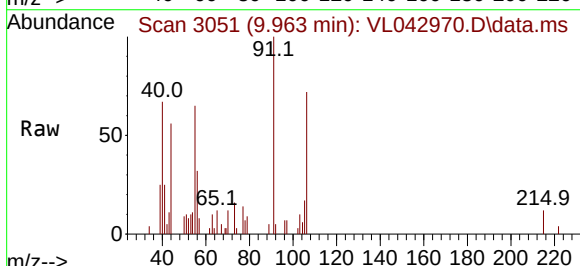
Acq: 22 Sep 2025 22:48

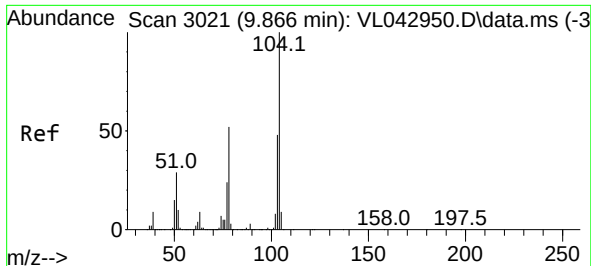
Tgt Ion: 91 Resp: 3183

Ion Ratio Lower Upper

91 100

106 48.2 22.4 67.0

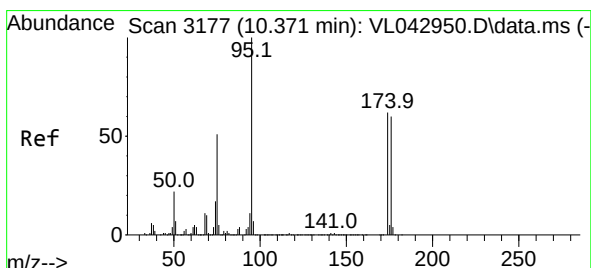
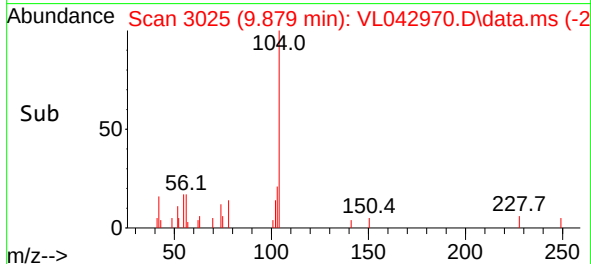
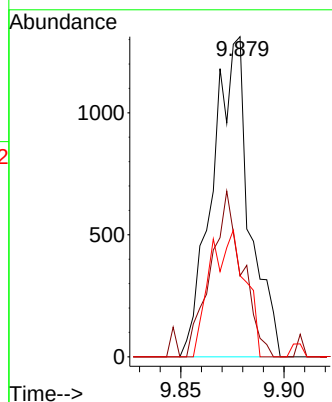
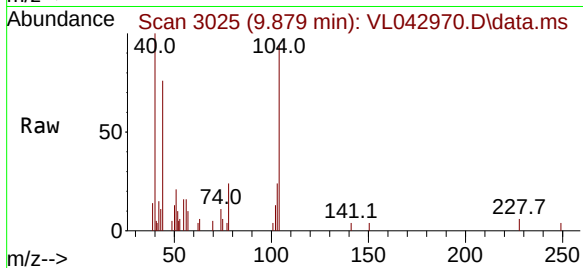




#61
Styrene
Concen: 0.069 ppbv
RT: 9.879 min Scan# 3021
Delta R.T. 0.013 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

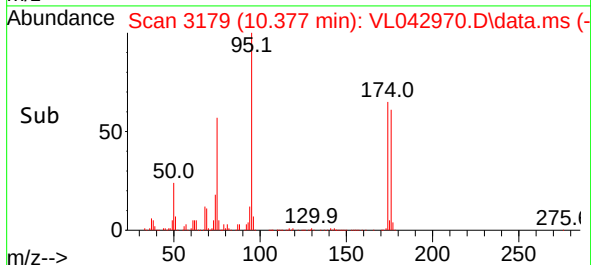
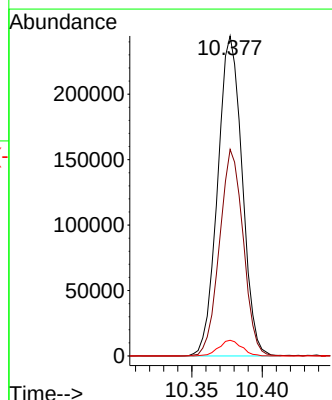
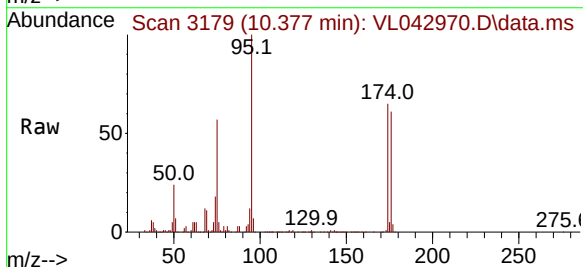
Instrument :
MSVOA_L
ClientSampleId :
131-1A-2DUP

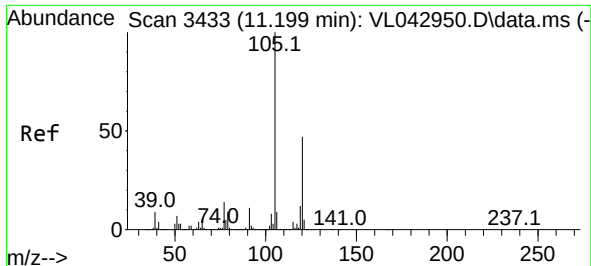
Tgt Ion:104 Resp: 1637
Ion Ratio Lower Upper
104 100
78 45.4 39.9 59.9
103 37.3 36.9 55.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.185 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.007 min
Lab File: VL042970.D
Acq: 22 Sep 2025 22:48

Tgt Ion: 95 Resp: 296189
Ion Ratio Lower Upper
95 100
174 62.6 51.4 77.2
175 4.6 4.0 6.0

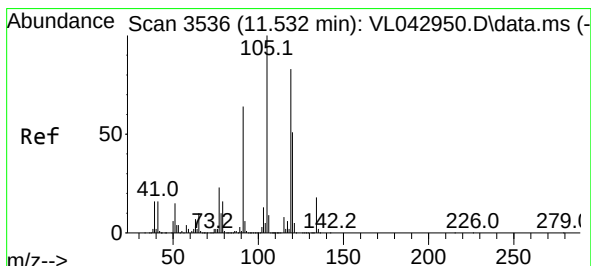
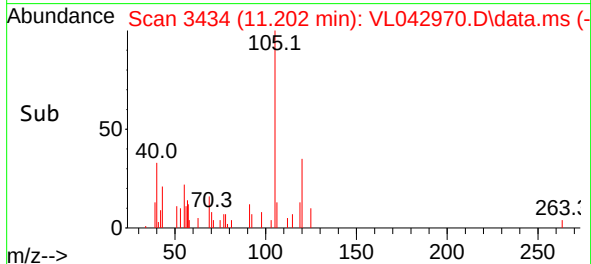
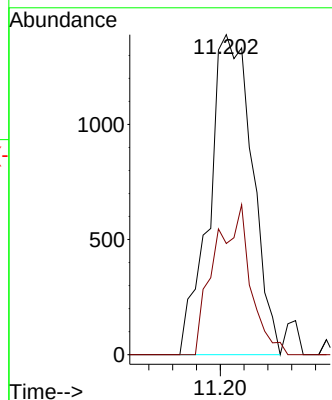
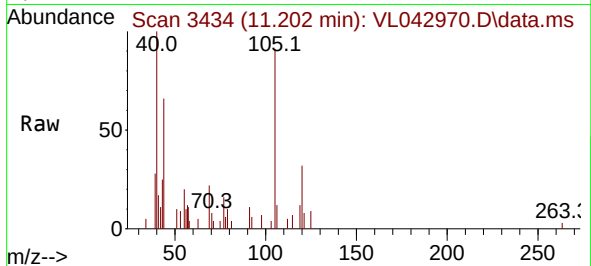




#73
 1,3,5-Trimethylbenzene
 Concen: 0.034 ppbv
 RT: 11.202 min Scan# 3434
 Delta R.T. 0.003 min
 Lab File: VL042970.D
 Acq: 22 Sep 2025 22:48

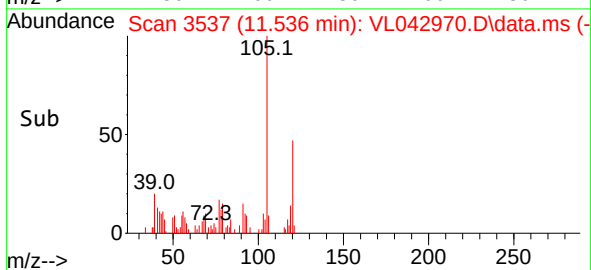
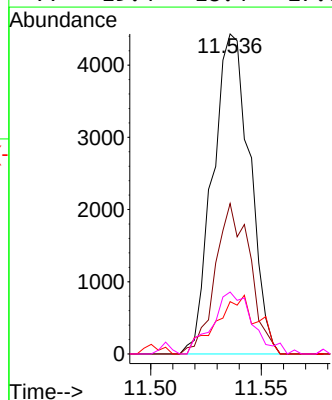
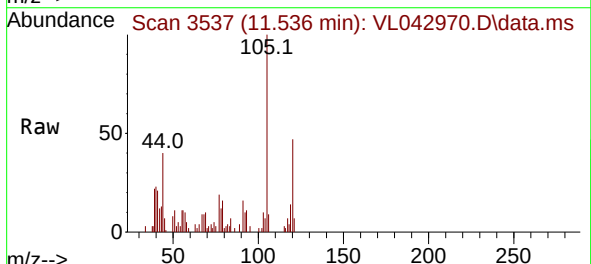
Instrument :
 MSVOA_L
 ClientSampleId :
 131-1A-2DUP

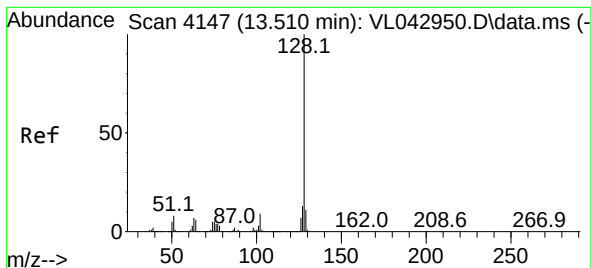
Tgt Ion:105 Resp: 1741
 Ion Ratio Lower Upper
 105 100
 120 34.7 38.0 57.0#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.091 ppbv
 RT: 11.536 min Scan# 3537
 Delta R.T. 0.003 min
 Lab File: VL042970.D
 Acq: 22 Sep 2025 22:48

Tgt Ion:105 Resp: 5151
 Ion Ratio Lower Upper
 105 100
 120 47.0 40.9 61.3
 91 16.3 51.2 76.8#
 77 19.4 18.4 27.6





#79

Naphthalene

Concen: 0.142 ppbv

RT: 13.513 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

Instrument :

MSVOA_L

ClientSampleId :

131-1A-2DUP

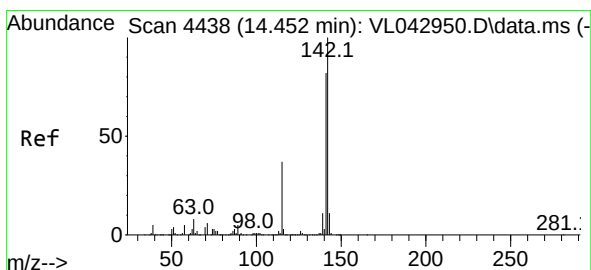
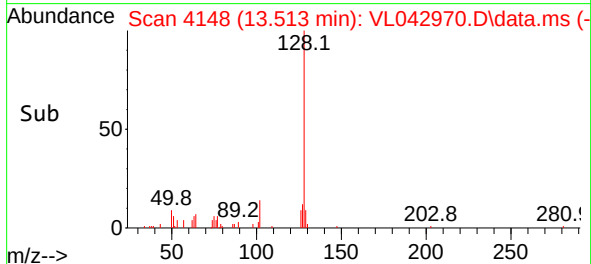
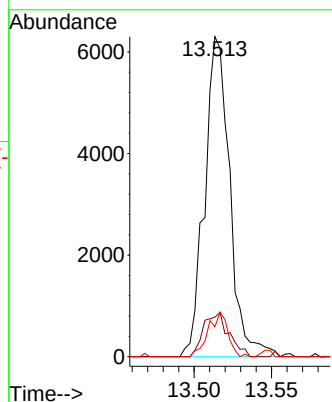
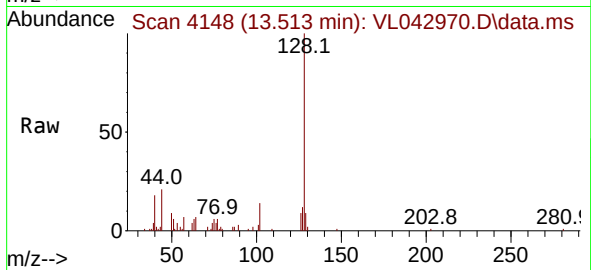
Tgt Ion:128 Resp: 7088

Ion Ratio Lower Upper

128 100

127 12.4 10.6 15.8

129 9.4 9.0 13.6



#80

Naphthalene,2-methyl-

Concen: 0.239 ppbv

RT: 14.459 min Scan# 4440

Delta R.T. 0.007 min

Lab File: VL042970.D

Acq: 22 Sep 2025 22:48

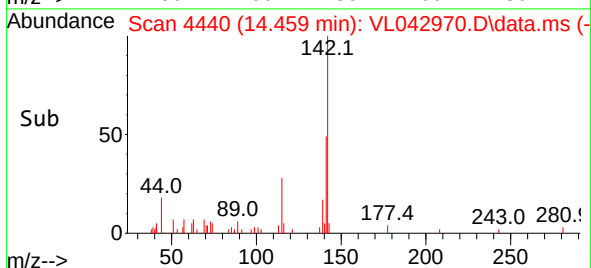
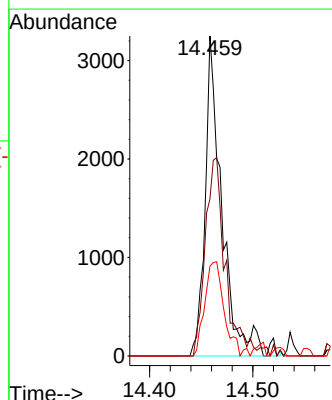
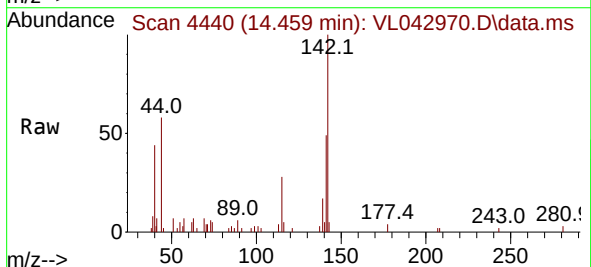
Tgt Ion:142 Resp: 3693

Ion Ratio Lower Upper

142 100

141 74.9 65.1 97.7

115 34.1 28.9 43.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042978.D
 Acq On : 23 Sep 2025 03:33
 Operator : SY/MD
 Sample : Q3132-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-1A-1

Quant Time: Sep 24 01:15:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	147886	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	425027	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	381413	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	292609	10.277	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.800%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8962	0.451	ppbv #	88
3) Chlorodifluoromethane	1.845	51	2055	0.083	ppbv	99
4) Chloromethane	1.534	50	4832	0.537	ppbv	100
6) Bromomethane	1.667	94	137	0.048	ppbv #	4
7) Chloroethane	1.703	64	138	0.044	ppbv	92
9) Propene	1.887	41	149086	13.824	ppbv	85
10) Heptane	4.985	43	11414	0.397	ppbv	93
11) Trichlorofluoromethane	1.881	101	9406	0.490	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	952	0.061	ppbv	86
13) Ethanol	1.722	45	474338	453.376	ppbv	96
15) Acetone	1.835	43	369644	19.191	ppbv	91
16) 1,3-Butadiene	1.622	39	6854	0.754	ppbv #	22
17) tert-Butyl alcohol	1.887	59	62498	2.958	ppbv	96
19) Isopropyl Alcohol	1.887	45	1467264	126.716	ppbv #	37
20) Methylene Chloride	2.065	84	29189	4.730	ppbv	94
21) Allyl Chloride	2.081	41	2434	0.181	ppbv #	24
23) Vinyl Acetate	2.476	43	46112	1.676	ppbv #	41
25) Ethyl Acetate	2.839	43	73155	1.503	ppbv	96
26) Hexane	2.829	57	42948	1.935	ppbv #	78
27) Carbon Disulfide	2.149	76	879	0.044	ppbv #	1
29) Chloroform	2.852	83	30052	1.036	ppbv	98
30) Cyclohexane	3.858	84	2918	0.157	ppbv #	1
34) 2-Butanone	2.560	43	20748	0.697	ppbv	98
35) Carbon Tetrachloride	3.764	117	1258	0.045	ppbv #	49
36) Benzene	3.661	78	21071	0.528	ppbv #	94
37) 1,2-Dichloroethane	3.217	62	4072	0.194	ppbv	98
39) 1,2-Dichloropropane	3.962	63	108493	7.446	ppbv #	24
41) Tetrahydrofuran	3.065	42	962	0.056	ppbv #	63
44) 2,2,4-Trimethylpentane	4.645	57	11312	0.164	ppbv #	6
53) Toluene	6.933	91	55807	1.181	ppbv #	57
58) Ethyl Benzene	9.357	91	18057	0.288	ppbv	99
59) m/p-Xylene	9.532	91	55110	1.116	ppbv #	100
60) o-Xylene	9.966	91	18333	0.371	ppbv	96
61) Styrene	9.878	104	1617	0.069	ppbv #	2
64) n-propylbenzene	10.989	120	766	0.040	ppbv #	35
66) Benzyl Chloride	11.723	91	225	0.033	ppbv #	82
69) p-Isopropyltoluene	11.927	119	5159	0.067	ppbv #	91
72) 4-Ethyltoluene	11.128	105	5187	0.084	ppbv	95
73) 1,3,5-Trimethylbenzene	11.205	105	3082	0.061	ppbv	96
74) 1,2,4-Trimethylbenzene	11.539	105	14343	0.259	ppbv #	64
79) Naphthalene	13.516	128	3424	0.070	ppbv	98
80) Naphthalene,2-methyl-	14.462	142	3925	0.260	ppbv #	81

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042978.D
Acq On : 23 Sep 2025 03:33
Operator : SY/MD
Sample : Q3132-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

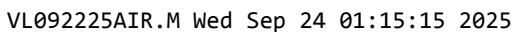
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1

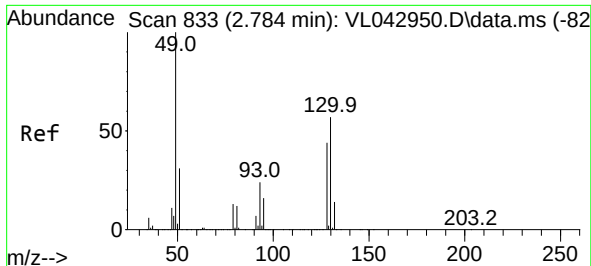
Quant Time: Sep 24 01:15:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

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

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

Quant Time: Sep 24 01:15:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

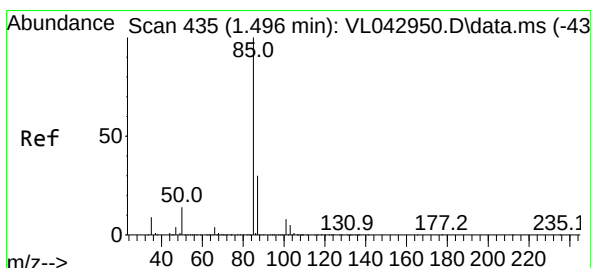
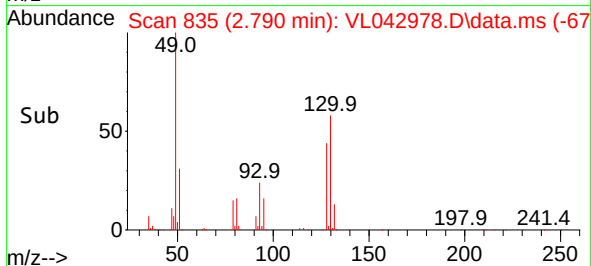
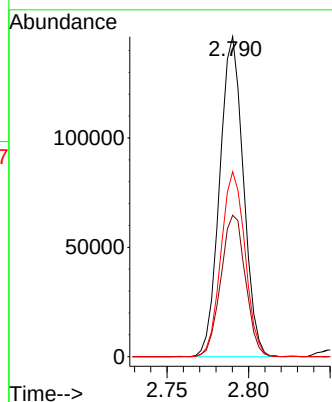
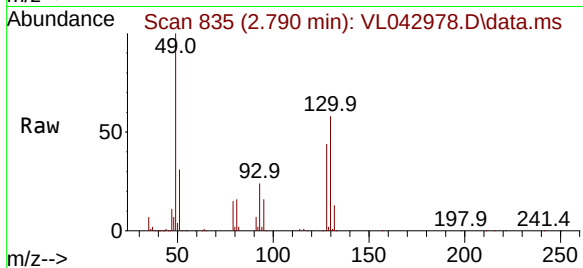




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

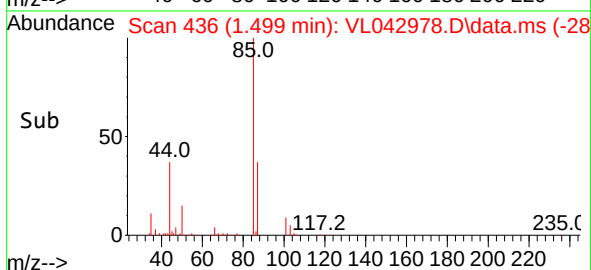
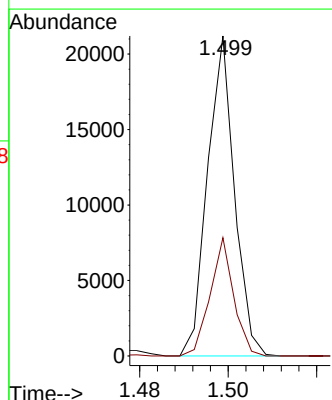
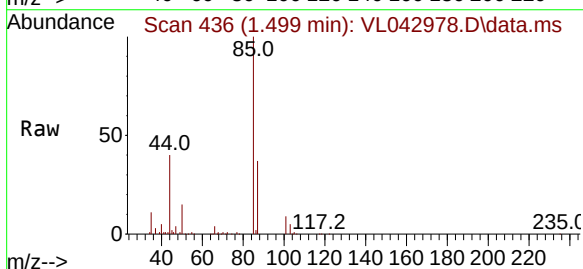
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1

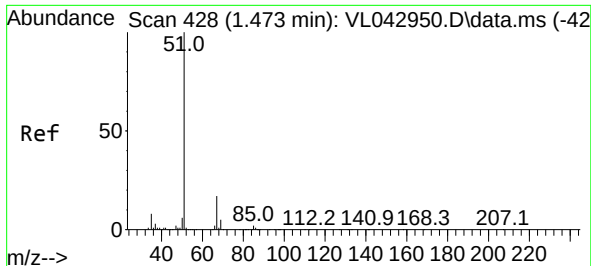
Tgt Ion: 49 Resp: 147886
Ion Ratio Lower Upper
49 100
128 45.8 22.9 68.8
130 58.7 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 0.451 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

Tgt Ion: 85 Resp: 8962
Ion Ratio Lower Upper
85 100
87 37.0 24.3 36.5#

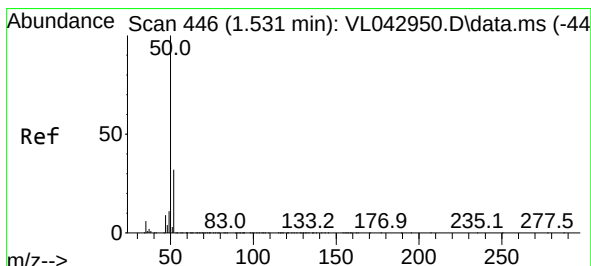
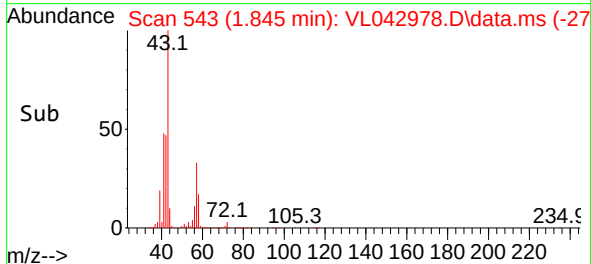
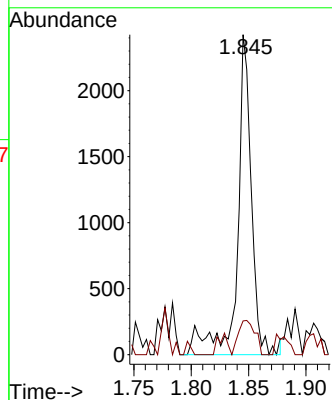
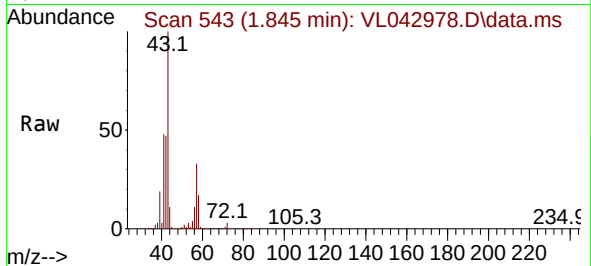




#3
Chlorodifluoromethane
Concen: 0.083 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.372 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

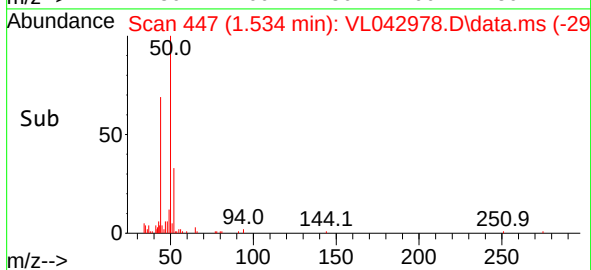
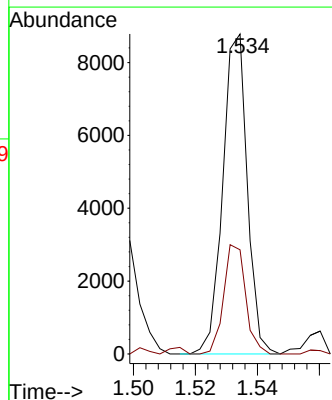
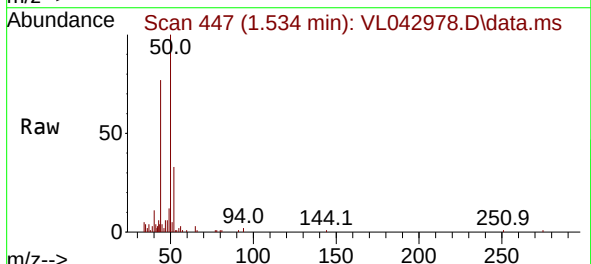
Instrument :
MSVOA_1
ClientSampleId :
151-1A-1

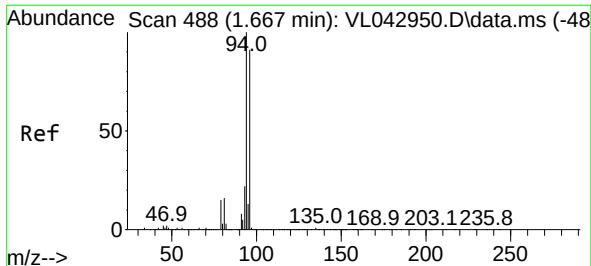
Tgt Ion: 51 Resp: 2055
Ion Ratio Lower Upper
51 100
67 17.1 13.8 20.8



#4
Chloromethane
Concen: 0.537 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

Tgt Ion: 50 Resp: 4832
Ion Ratio Lower Upper
50 100
52 32.6 25.9 38.9

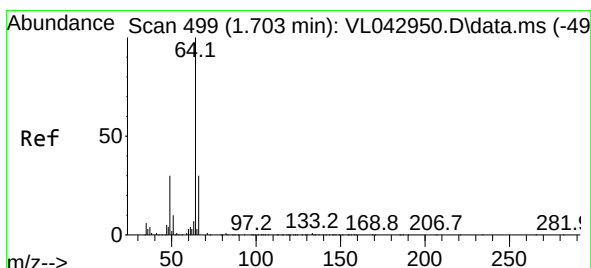
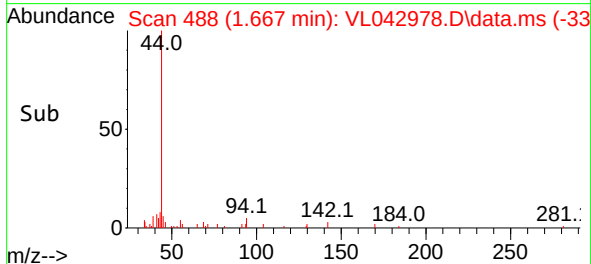
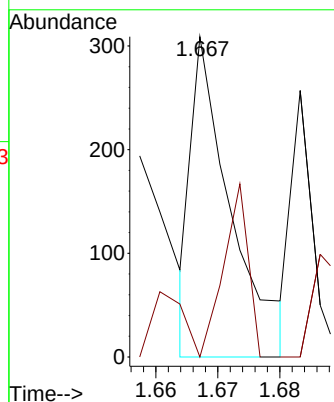
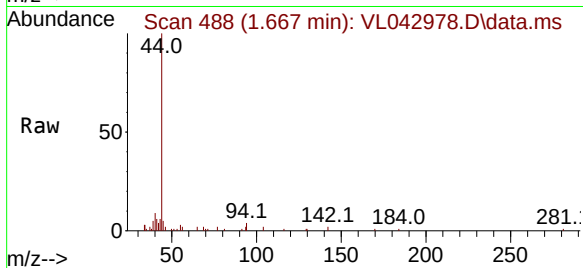




#6
Bromomethane
Concen: 0.048 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

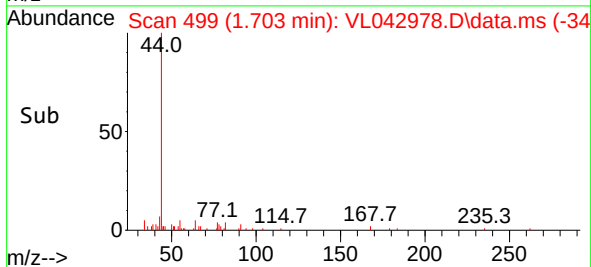
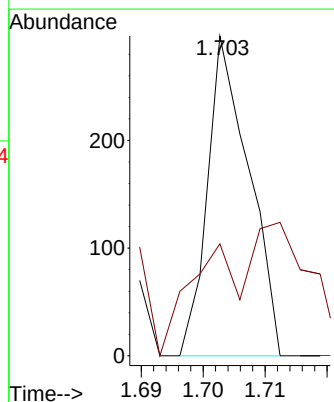
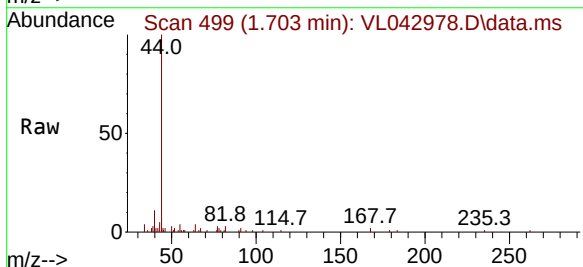
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1

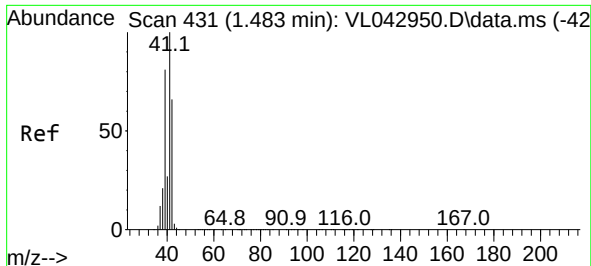
Tgt Ion: 94 Resp: 137
Ion Ratio Lower Upper
94 100
96 0.0 72.6 108.8#



#7
Chloroethane
Concen: 0.044 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

Tgt Ion: 64 Resp: 138
Ion Ratio Lower Upper
64 100
66 35.0 24.6 36.8

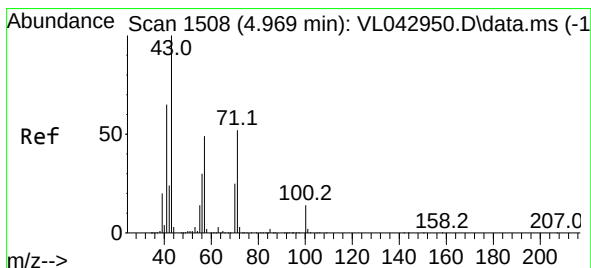
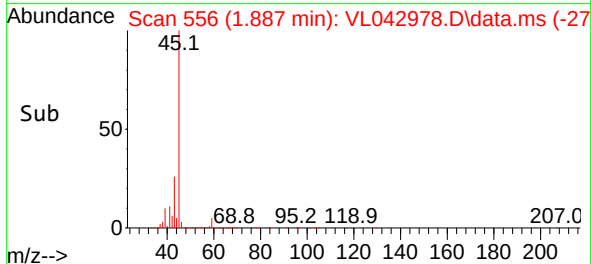
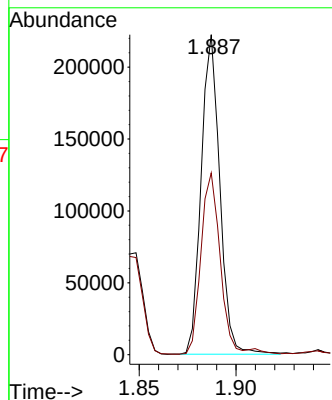
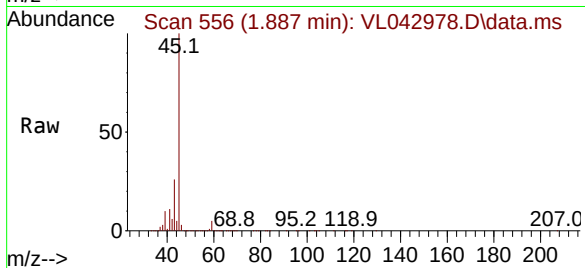




#9
Propene
Concen: 13.824 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.404 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

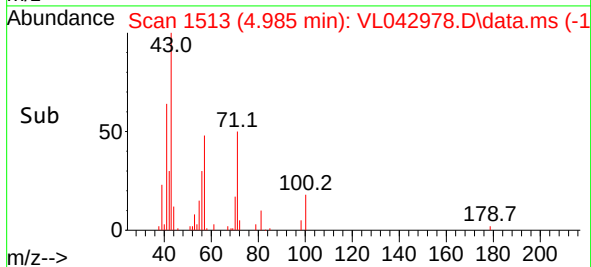
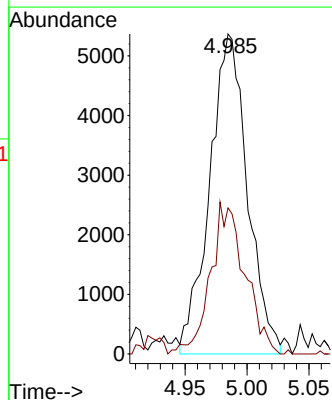
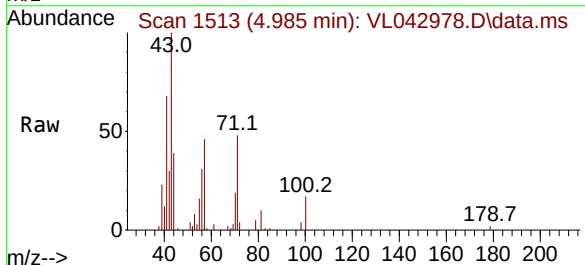
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1

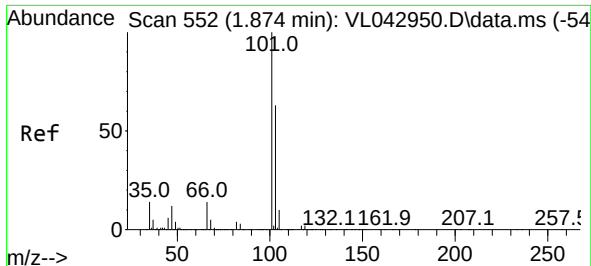
Tgt Ion: 41 Resp: 149086
Ion Ratio Lower Upper
41 100
42 59.3 57.4 86.2



#10
Heptane
Concen: 0.397 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.016 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

Tgt Ion: 43 Resp: 11414
Ion Ratio Lower Upper
43 100
57 43.2 38.6 57.8

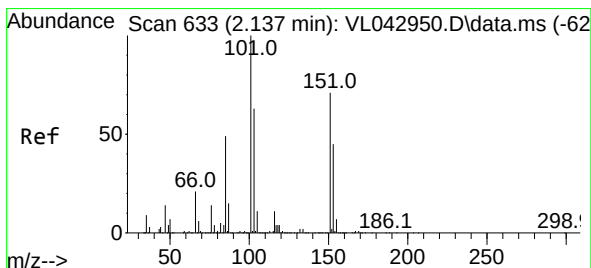
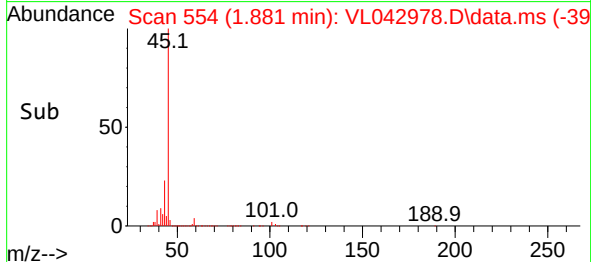
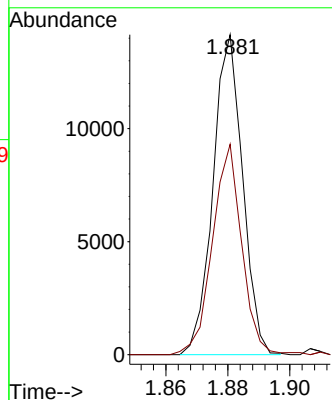
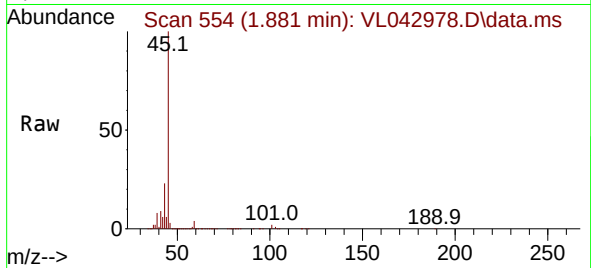




#11
 Trichlorofluoromethane
 Concen: 0.490 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.006 min
 Lab File: VL042978.D
 Acq: 23 Sep 2025 03:33

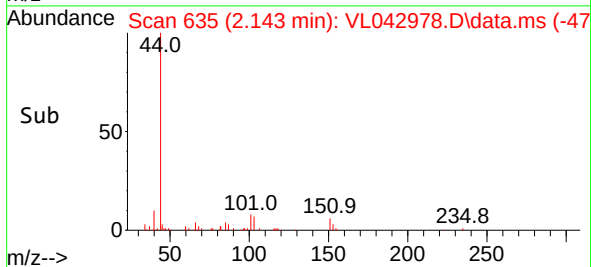
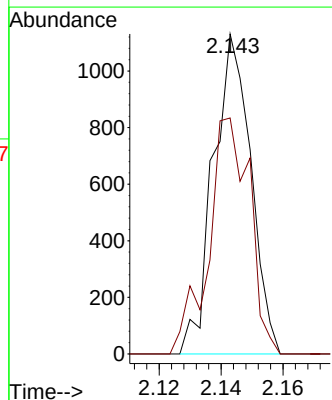
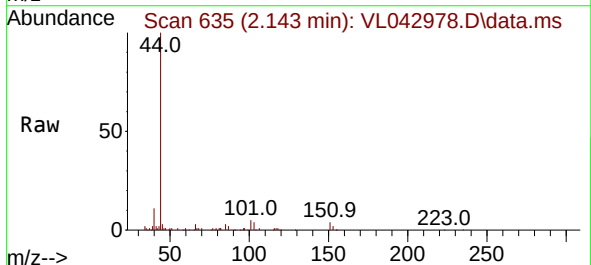
Instrument :
 MSVOA_1
 ClientSampleId :
 151-1A-1

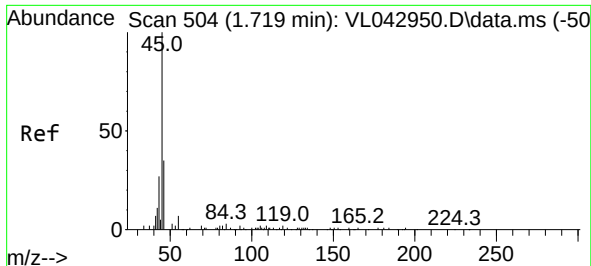
Tgt Ion:101 Resp: 9406
 Ion Ratio Lower Upper
 101 100
 103 65.1 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.061 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.006 min
 Lab File: VL042978.D
 Acq: 23 Sep 2025 03:33

Tgt Ion:101 Resp: 952
 Ion Ratio Lower Upper
 101 100
 151 80.9 55.7 83.5





#13

Ethanol

Concen: 453.376 ppbv

RT: 1.722 min Scan# 50

Delta R.T. 0.003 min

Lab File: VL042978.D

Acq: 23 Sep 2025 03:33

Instrument :

MSVOA_1

ClientSampleId :

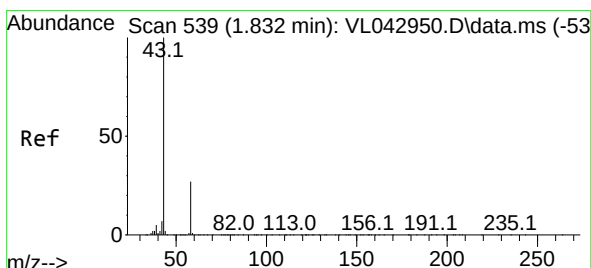
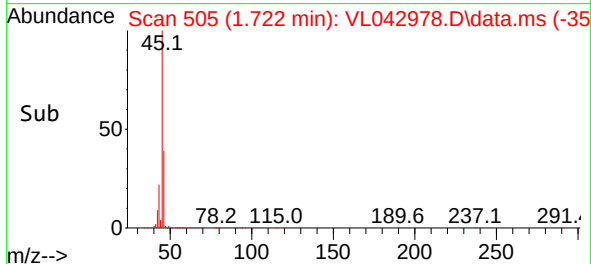
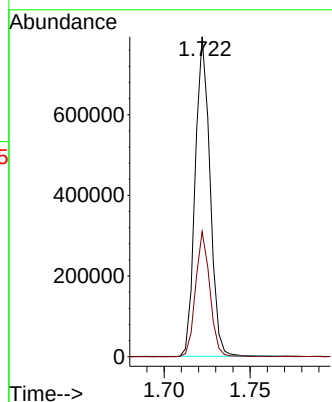
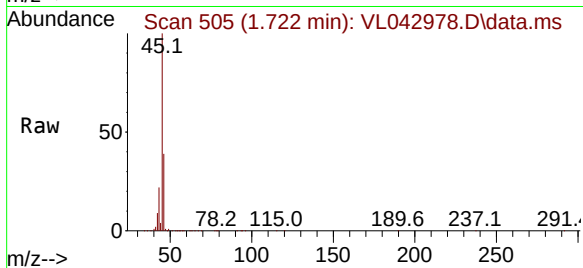
151-1A-1

Tgt Ion: 45 Resp: 474338

Ion Ratio Lower Upper

45 100

46 38.1 16.2 64.6



#15

Acetone

Concen: 19.191 ppbv

RT: 1.835 min Scan# 540

Delta R.T. 0.003 min

Lab File: VL042978.D

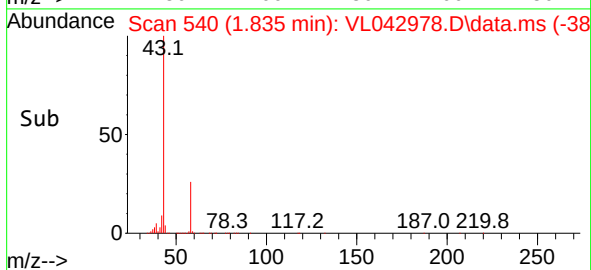
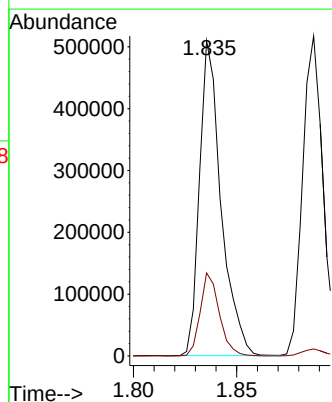
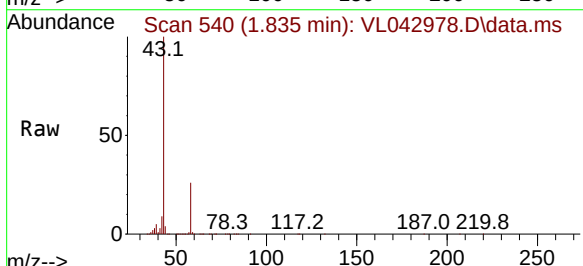
Acq: 23 Sep 2025 03:33

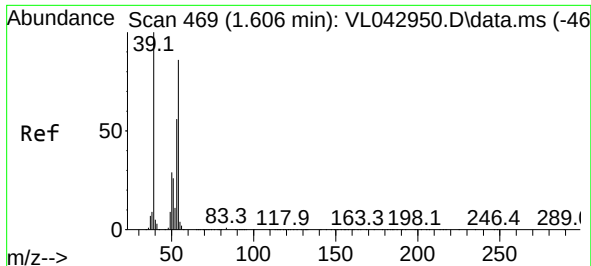
Tgt Ion: 43 Resp: 369644

Ion Ratio Lower Upper

43 100

58 23.4 22.3 33.5

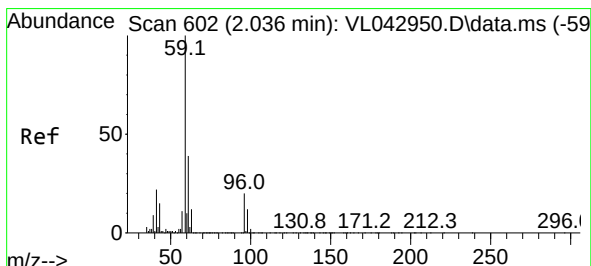
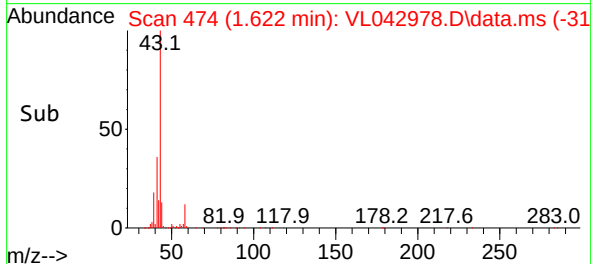
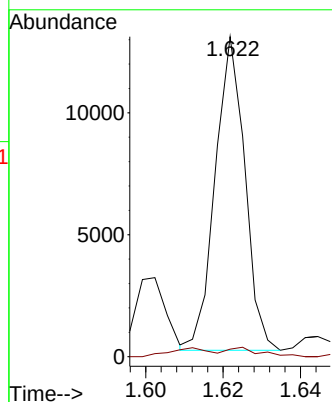
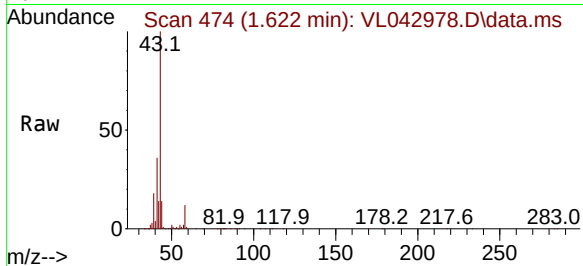




#16
1,3-Butadiene
Concen: 0.754 ppbv
RT: 1.622 min Scan# 41
Delta R.T. 0.016 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

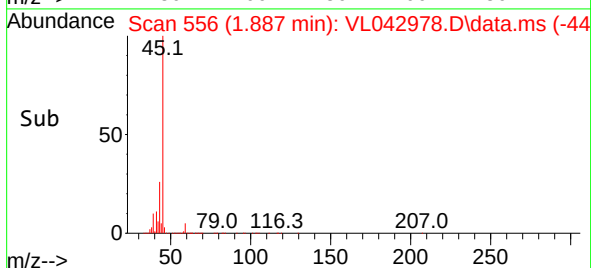
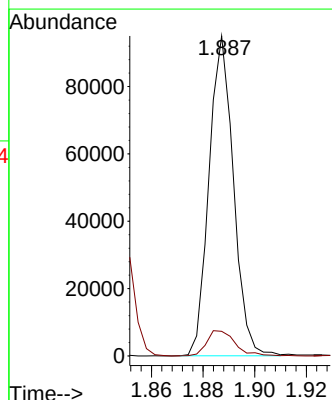
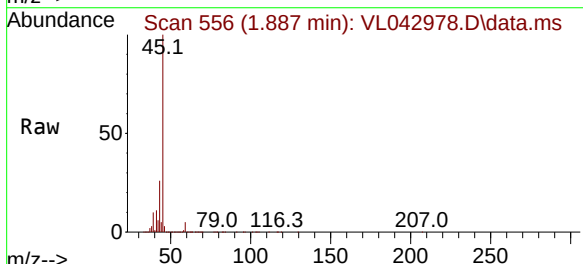
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1

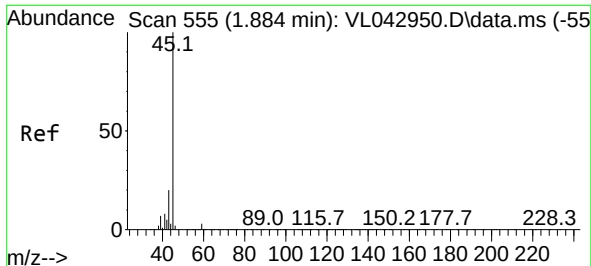
Tgt Ion: 39 Resp: 6854
Ion Ratio Lower Upper
39 100
54 9.3 60.8 91.2#



#17
tert-Butyl alcohol
Concen: 2.958 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.149 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

Tgt Ion: 59 Resp: 62498
Ion Ratio Lower Upper
59 100
57 9.2 8.6 12.8

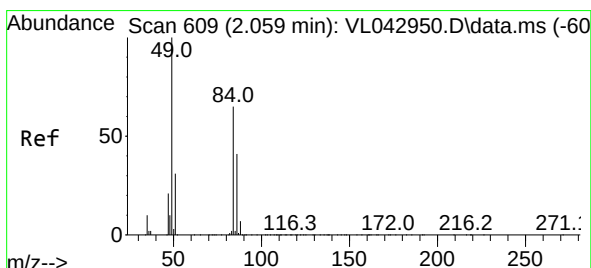
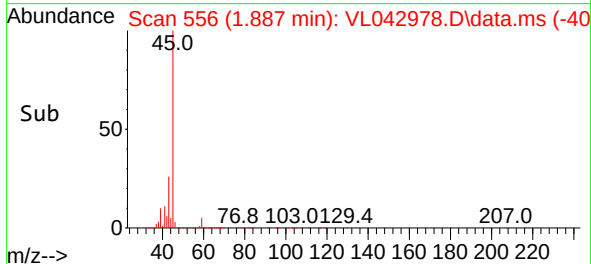
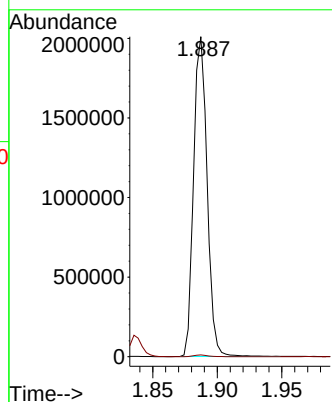
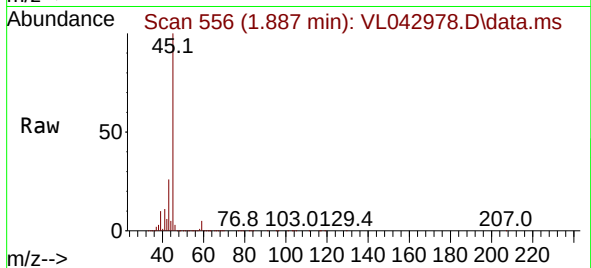




#19
Isopropyl Alcohol
Concen: 126.716 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

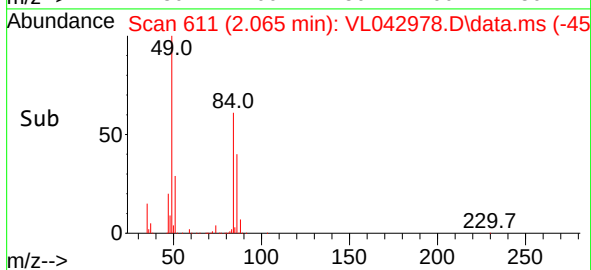
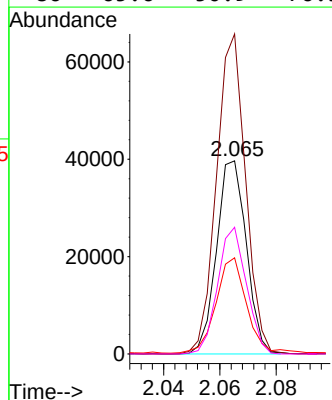
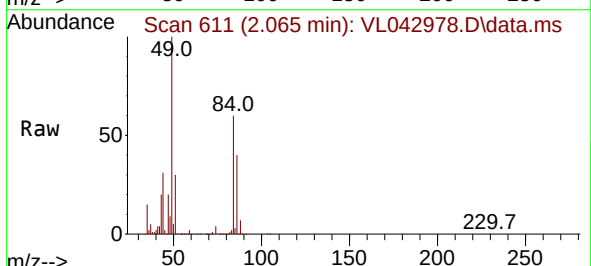
Instrument :
MSVOA_1
ClientSampleId :
151-1A-1

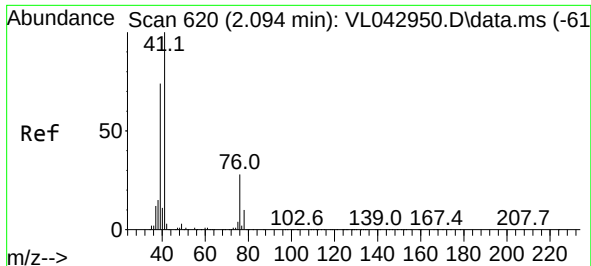
Tgt Ion: 45 Resp: 1467264
Ion Ratio Lower Upper
45 100
58 0.6 31.0 46.6#



#20
Methylene Chloride
Concen: 4.730 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

Tgt Ion: 84 Resp: 29189
Ion Ratio Lower Upper
84 100
49 165.4 124.1 186.1
51 48.5 39.8 59.8
86 65.6 50.9 76.3

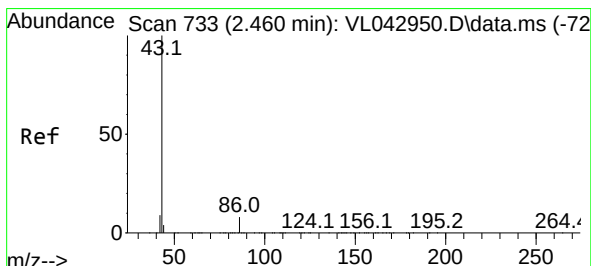
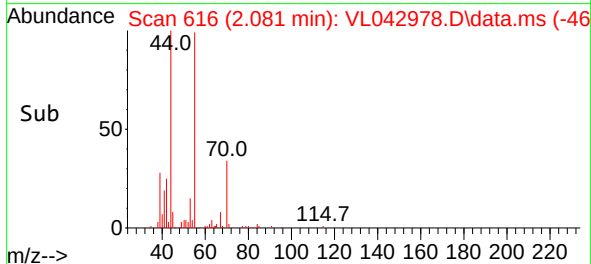
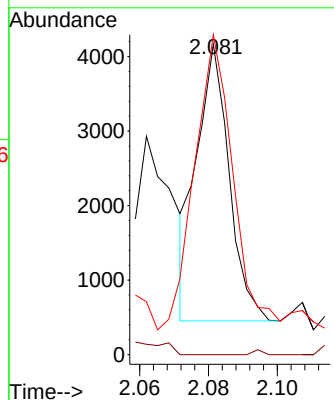
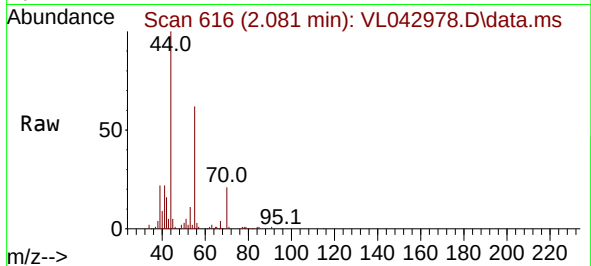




#21
 Allyl Chloride
 Concen: 0.181 ppbv
 RT: 2.081 min Scan# 61
 Delta R.T. -0.013 min
 Lab File: VL042978.D
 Acq: 23 Sep 2025 03:33

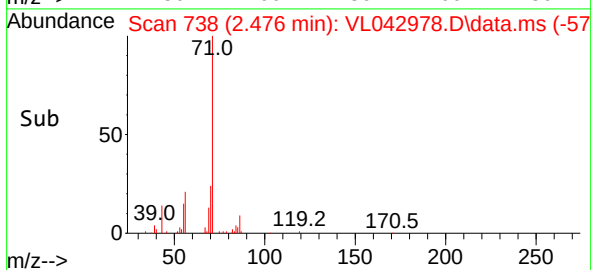
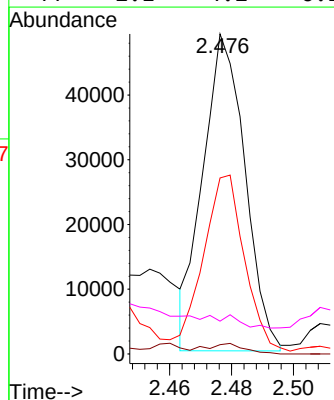
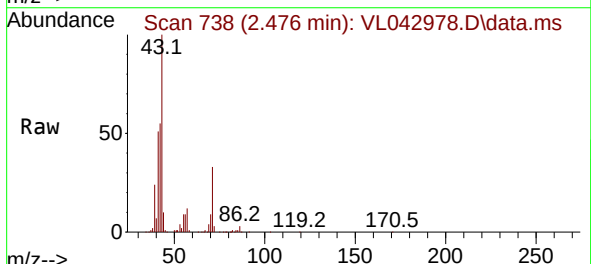
Instrument :
 MSVOA_L
 ClientSampleId :
 151-1A-1

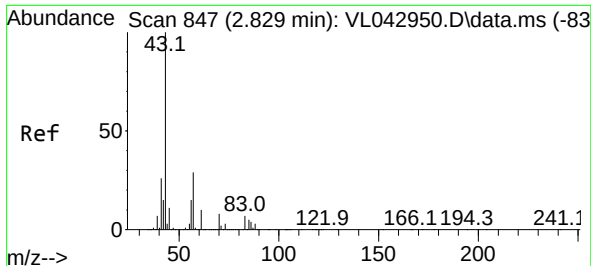
Tgt Ion: 41 Resp: 2434
 Ion Ratio Lower Upper
 41 100
 76 6.1 22.3 33.5#
 39 0.0 61.3 91.9#



#23
 Vinyl Acetate
 Concen: 1.676 ppbv
 RT: 2.476 min Scan# 738
 Delta R.T. 0.016 min
 Lab File: VL042978.D
 Acq: 23 Sep 2025 03:33

Tgt Ion: 43 Resp: 46112
 Ion Ratio Lower Upper
 43 100
 86 3.0 6.2 9.2#
 42 54.5 7.4 11.0#
 44 2.1 4.2 6.2#

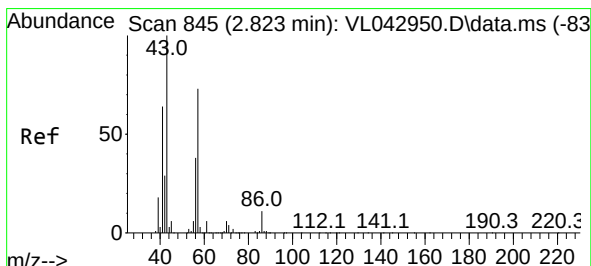
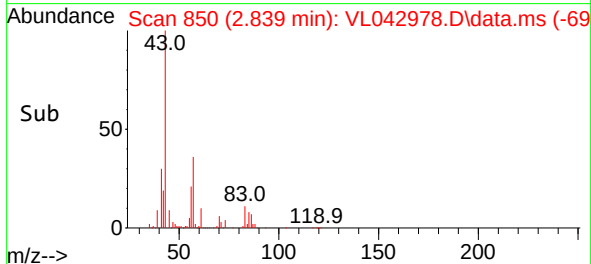
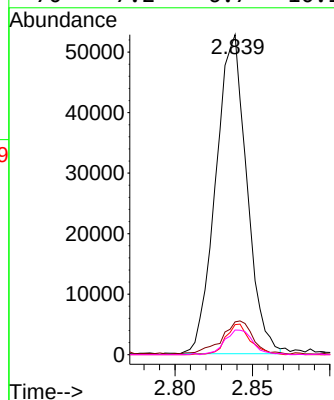
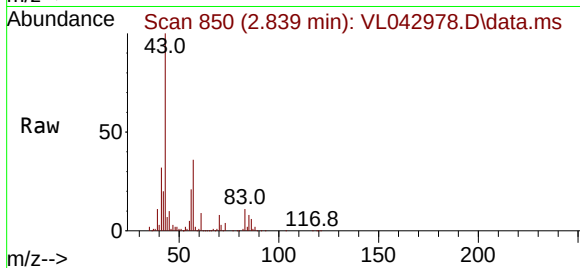




#25
Ethyl Acetate
Concen: 1.503 ppbv
RT: 2.839 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

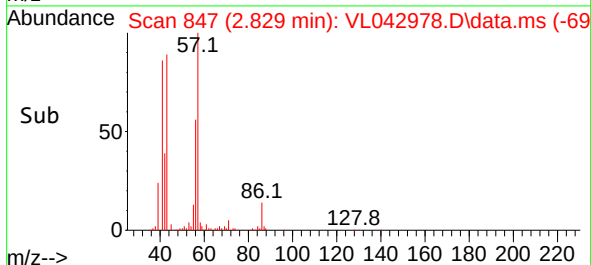
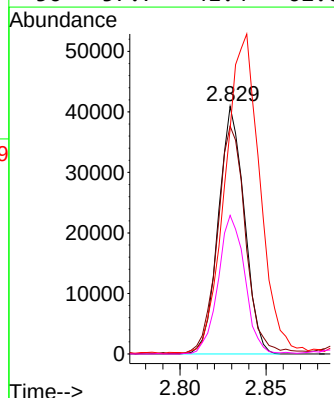
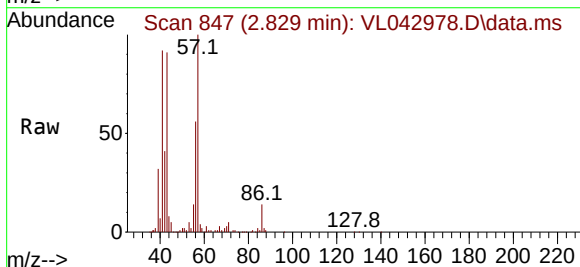
Instrument :
MSVOA_1
ClientSampleId :
151-1A-1

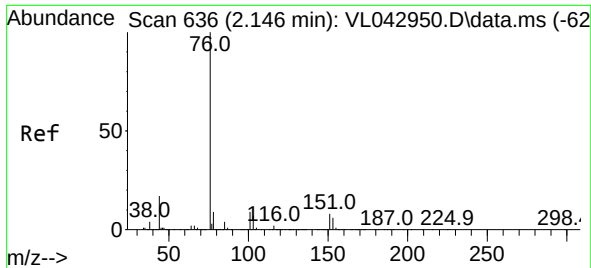
Tgt Ion: 43	Resp: 73155
Ion Ratio	Lower Upper
43 100	
45 11.4	7.7 11.5
61 7.7	7.1 10.7
70 7.2	6.7 10.1



#26
Hexane
Concen: 1.935 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

Tgt Ion: 57	Resp: 42948
Ion Ratio	Lower Upper
57 100	
41 100.5	71.7 107.5
43 177.6	180.8 271.2#
56 57.7	41.4 62.0

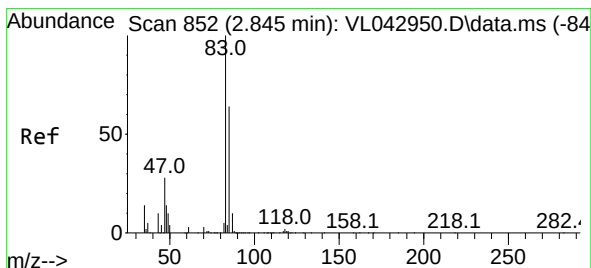
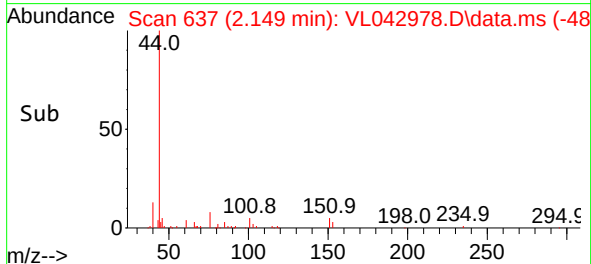
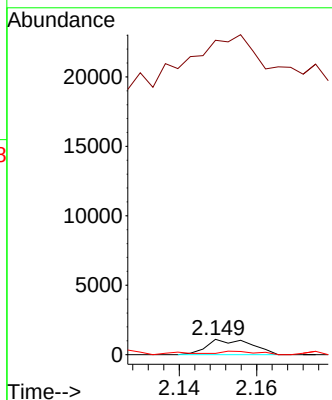
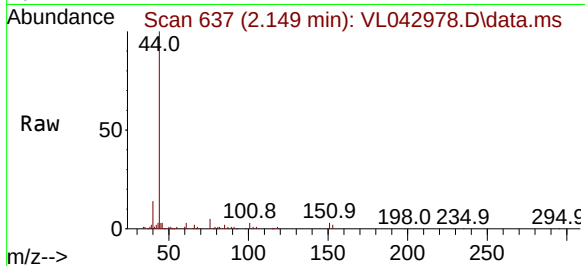




#27
Carbon Disulfide
Concen: 0.044 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

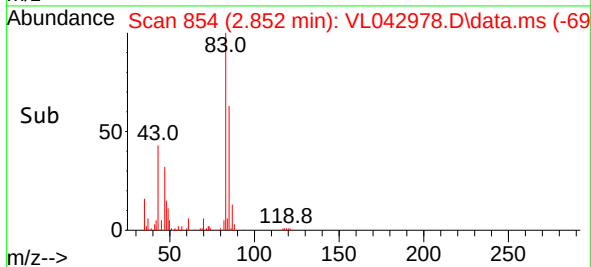
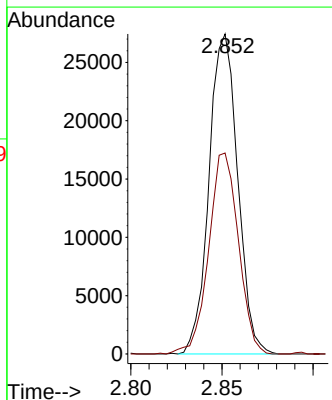
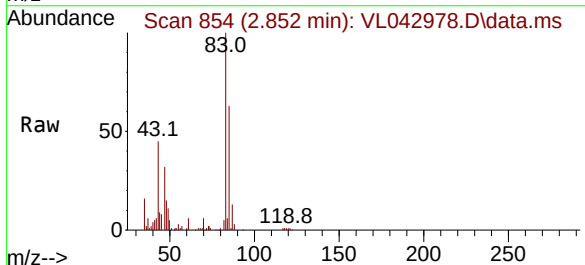
Instrument :
MSVOA_1
ClientSampleId :
151-1A-1

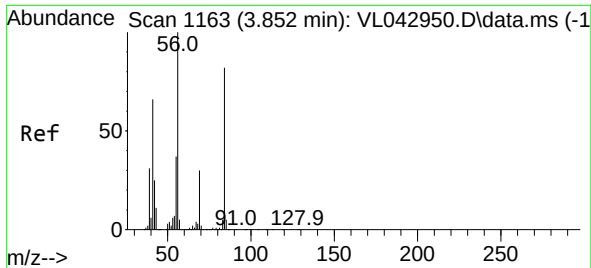
Tgt Ion: 76 Resp: 879
Ion Ratio Lower Upper
76 100
44 2737.8 15.6 23.4#
78 19.1 8.9 13.3#



#29
Chloroform
Concen: 1.036 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

Tgt Ion: 83 Resp: 30052
Ion Ratio Lower Upper
83 100
85 62.8 51.2 76.8

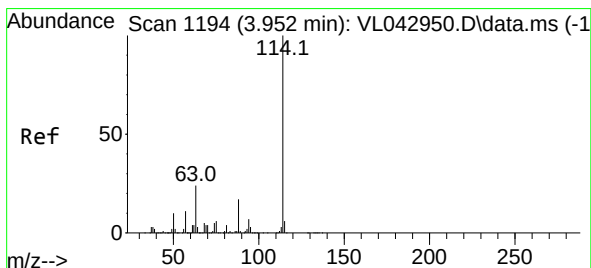
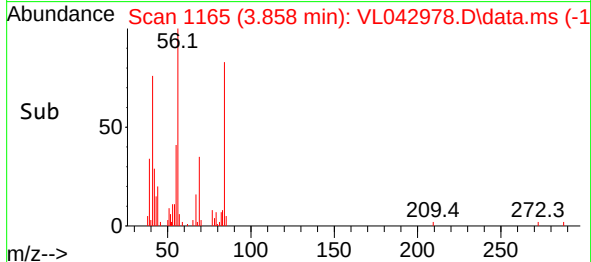
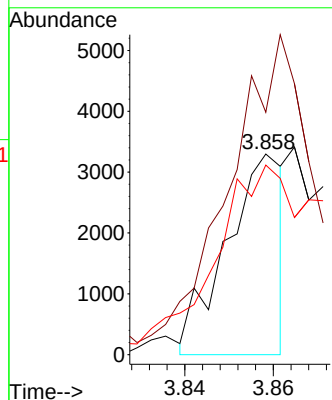
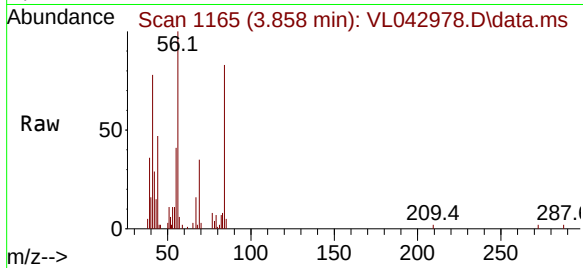




#30
Cyclohexane
Concen: 0.157 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

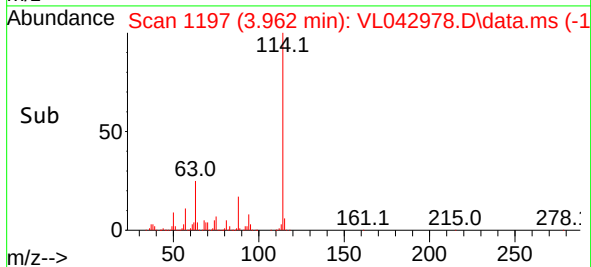
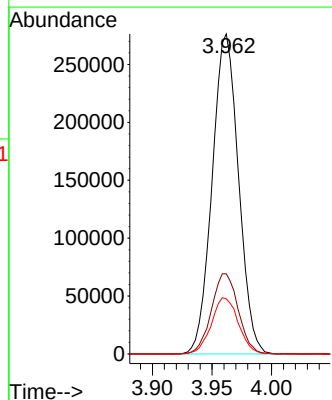
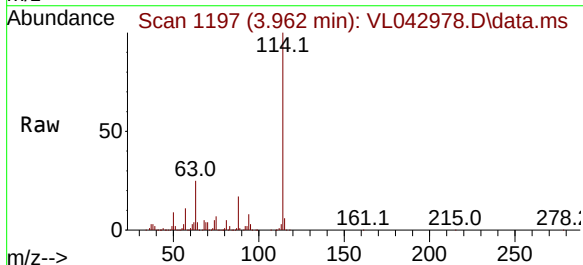
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1

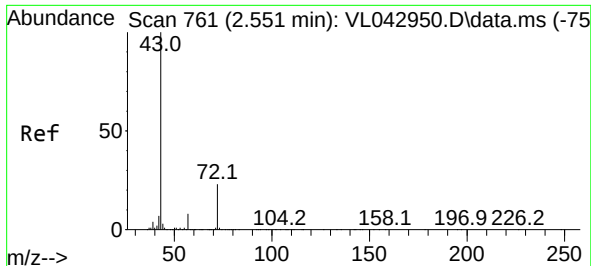
Tgt Ion: 84 Resp: 2918
Ion Ratio Lower Upper
84 100
56 282.0 102.2 153.4#
41 190.8 65.6 98.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.010 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

Tgt Ion: 114 Resp: 425027
Ion Ratio Lower Upper
114 100
63 25.5 19.4 29.2
88 18.0 14.2 21.2

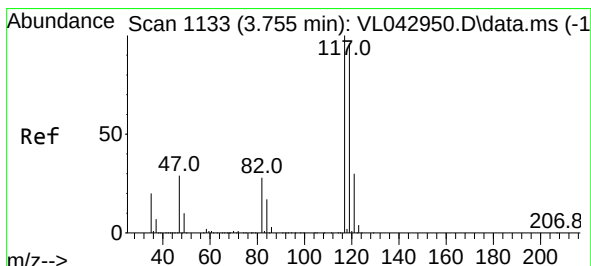
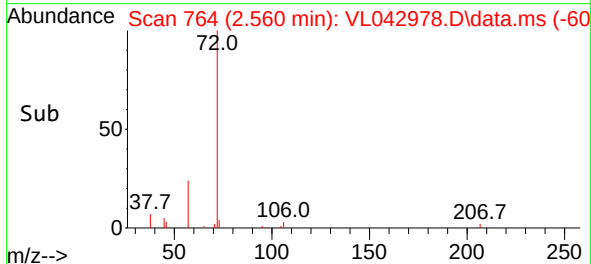
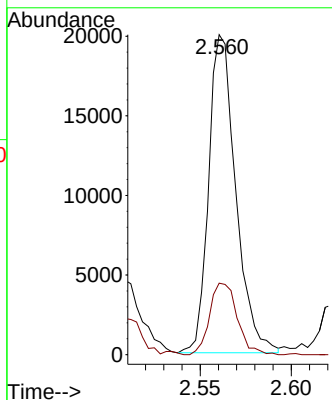
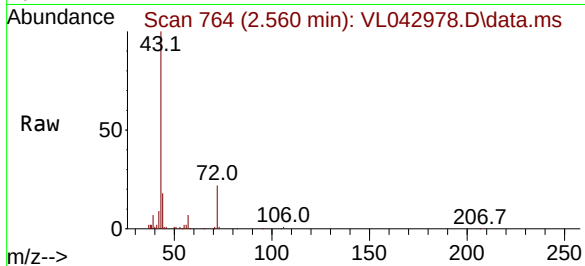




#34
2-Butanone
Concen: 0.697 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.010 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

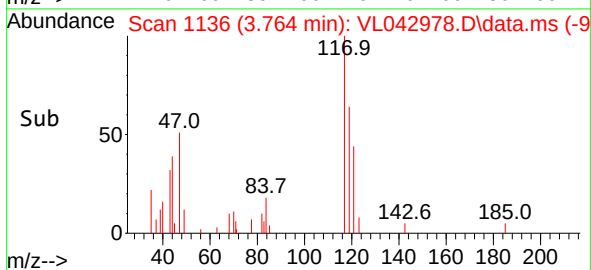
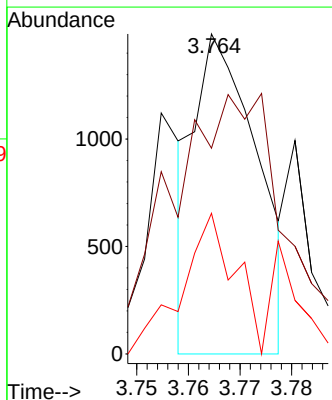
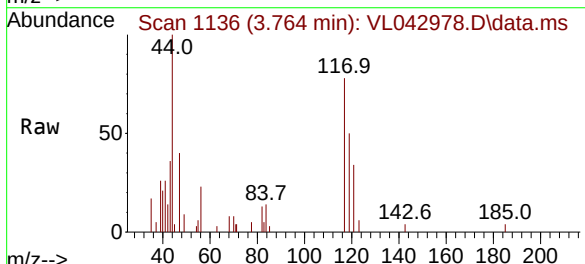
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1

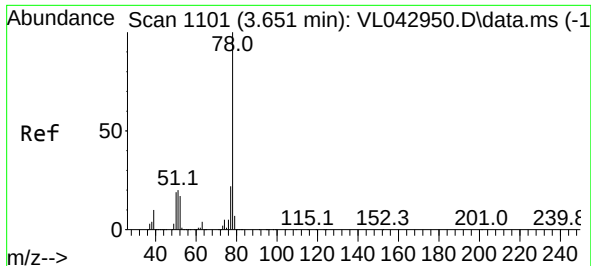
Tgt Ion: 43 Resp: 20748
Ion Ratio Lower Upper
43 100
72 22.9 17.7 26.5



#35
Carbon Tetrachloride
Concen: 0.045 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.010 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

Tgt Ion: 117 Resp: 1258
Ion Ratio Lower Upper
117 100
119 43.7 76.9 115.3#
121 52.5 23.7 35.5#

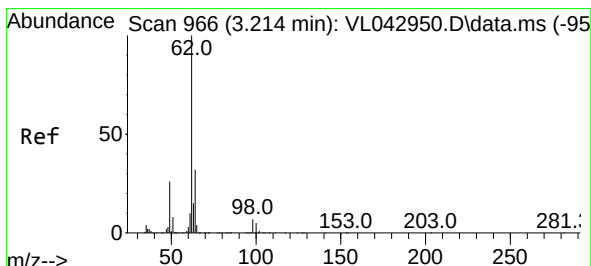
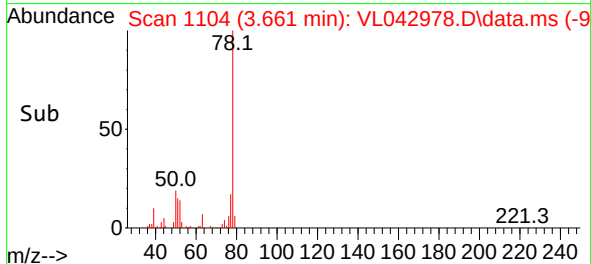
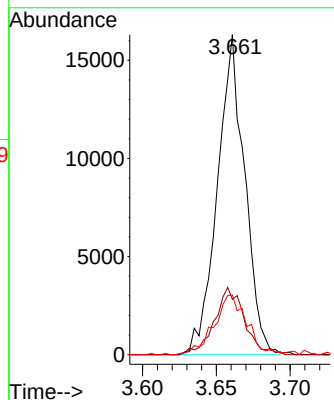
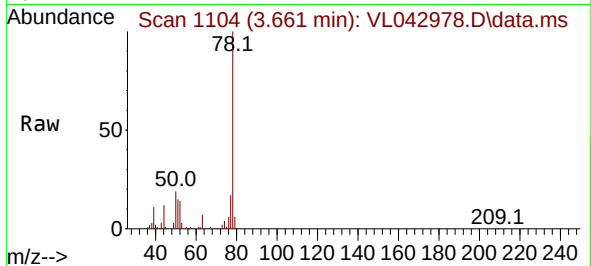




#36
Benzene
Concen: 0.528 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.010 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

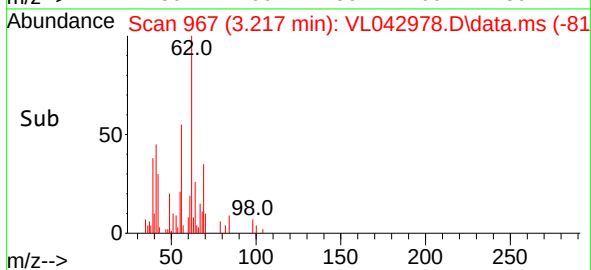
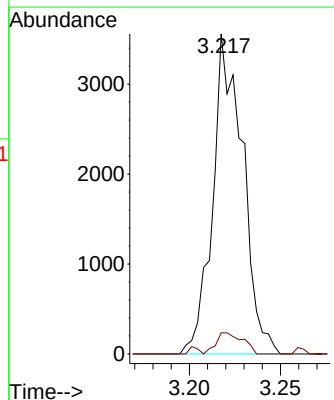
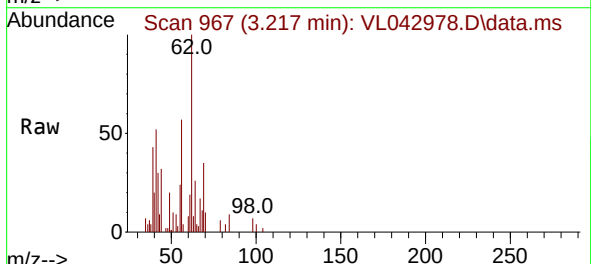
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1

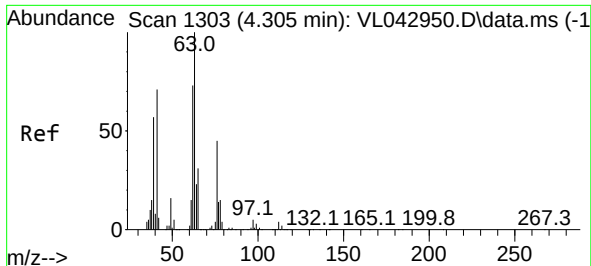
Tgt Ion: 78 Resp: 21071
Ion Ratio Lower Upper
78 100
77 17.4 17.8 26.6#
50 18.3 15.0 22.4



#37
1,2-Dichloroethane
Concen: 0.194 ppbv
RT: 3.217 min Scan# 967
Delta R.T. 0.003 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

Tgt Ion: 62 Resp: 4072
Ion Ratio Lower Upper
62 100
98 6.6 5.9 8.9





#39

1,2-Dichloropropane

Concen: 7.446 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.343 min

Lab File: VL042978.D

Acq: 23 Sep 2025 03:33

Instrument :

MSVOA_L

ClientSampleId :

151-1A-1

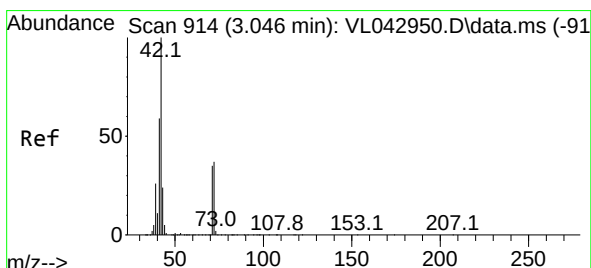
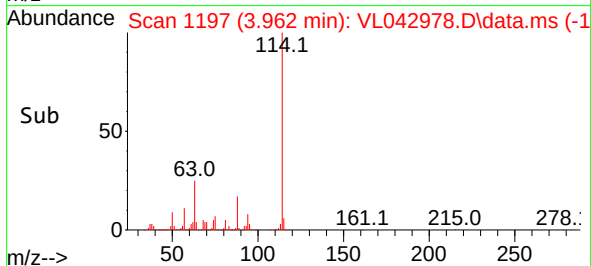
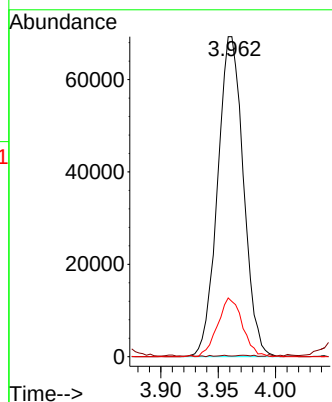
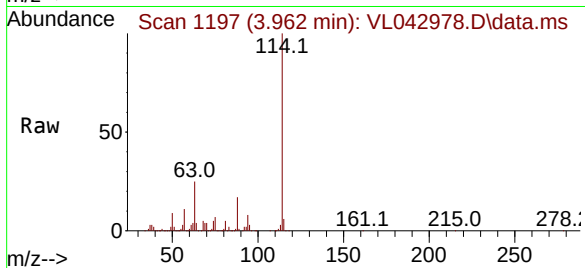
Tgt Ion: 63 Resp: 108493

Ion Ratio Lower Upper

63 100

41 0.0 57.5 86.3#

62 17.2 58.5 87.7#



#41

Tetrahydrofuran

Concen: 0.056 ppbv

RT: 3.065 min Scan# 920

Delta R.T. 0.019 min

Lab File: VL042978.D

Acq: 23 Sep 2025 03:33

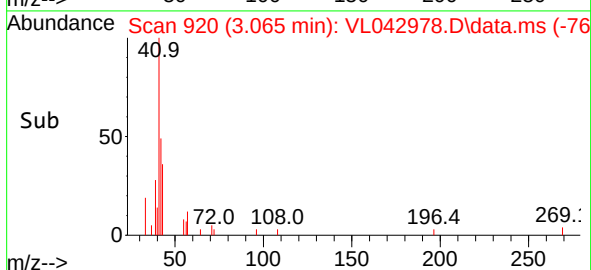
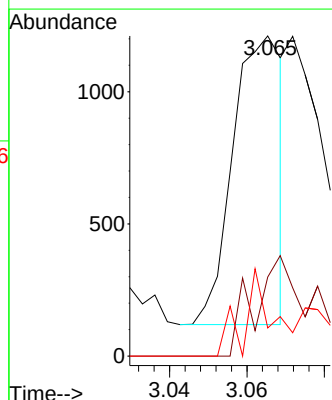
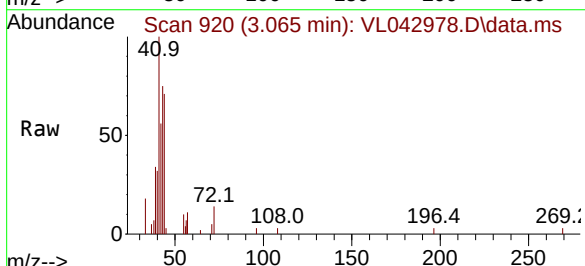
Tgt Ion: 42 Resp: 962

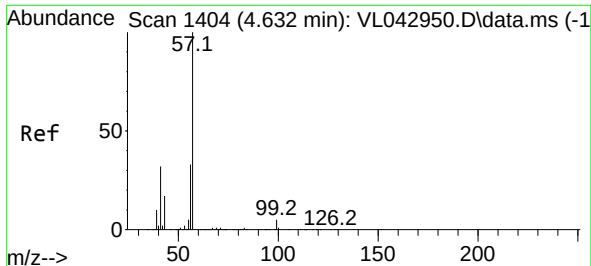
Ion Ratio Lower Upper

42 100

72 0.0 30.0 45.0#

71 29.8 28.8 43.2





#44

2,2,4-Trimethylpentane

Concen: 0.164 ppbv

RT: 4.645 min Scan# 1408

Delta R.T. 0.013 min

Lab File: VL042978.D

Acq: 23 Sep 2025 03:33

Instrument :

MSVOA_L

ClientSampleId :

151-1A-1

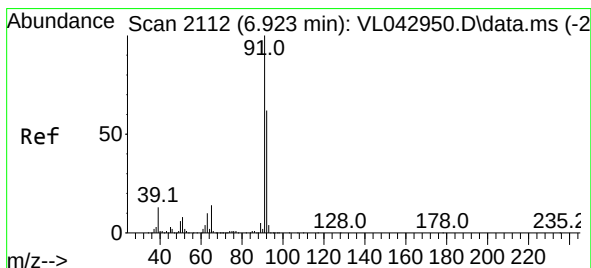
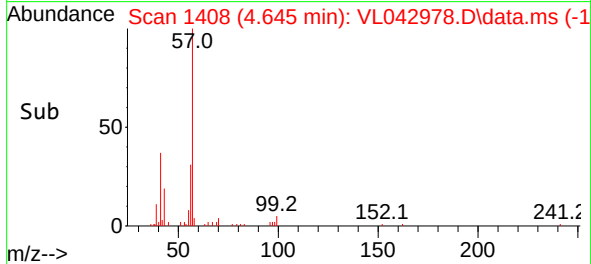
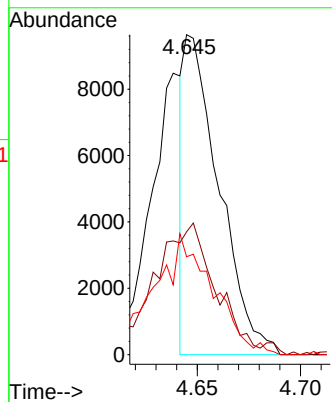
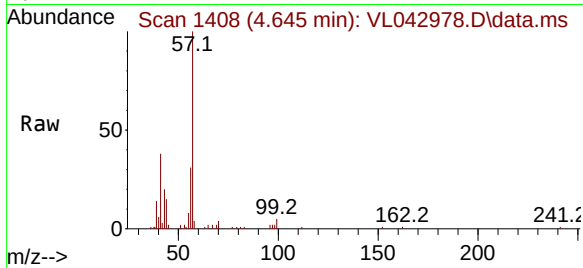
Tgt Ion: 57 Resp: 11312

Ion Ratio Lower Upper

57 100

41 89.9 25.5 38.3#

56 79.0 25.8 38.8#



#53

Toluene

Concen: 1.181 ppbv

RT: 6.933 min Scan# 2115

Delta R.T. 0.010 min

Lab File: VL042978.D

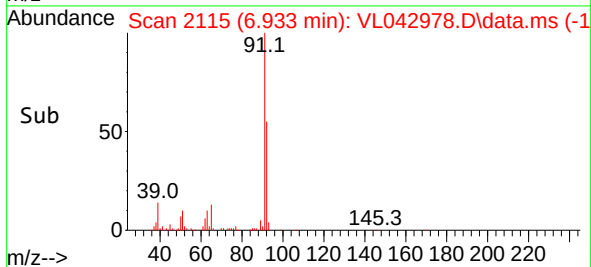
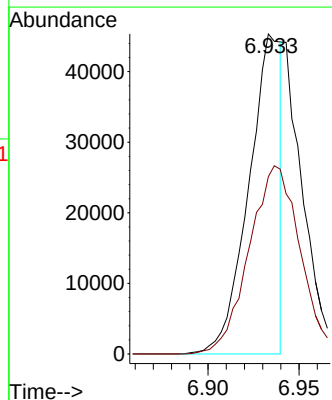
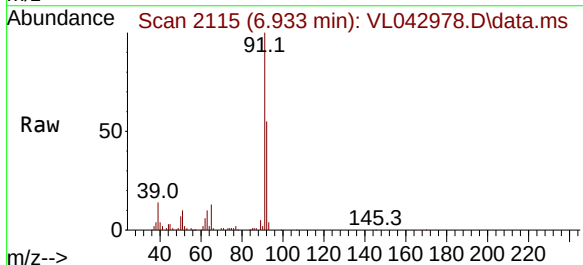
Acq: 23 Sep 2025 03:33

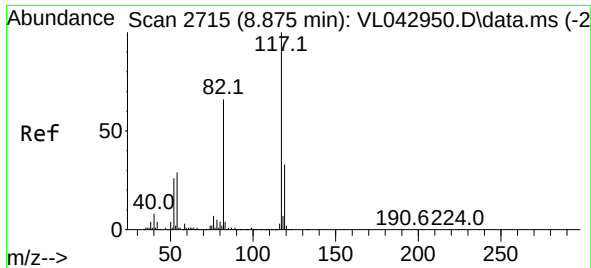
Tgt Ion: 91 Resp: 55807

Ion Ratio Lower Upper

91 100

92 92.6 48.2 72.2#

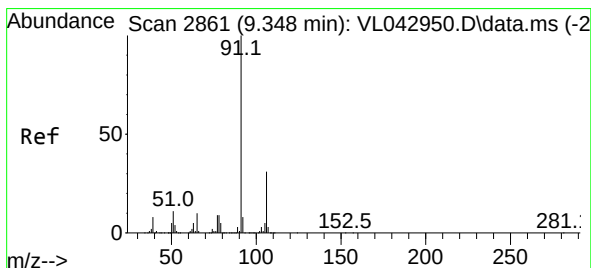
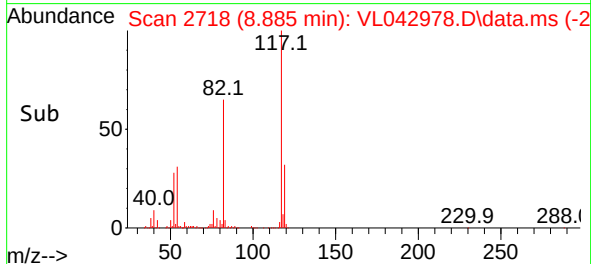
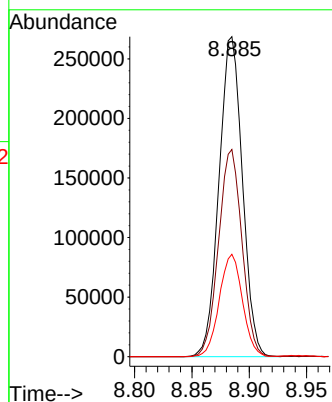
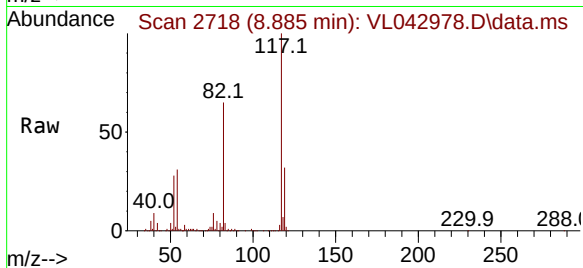




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

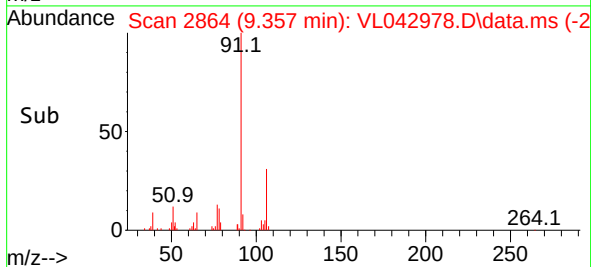
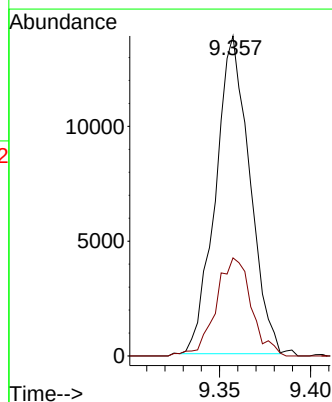
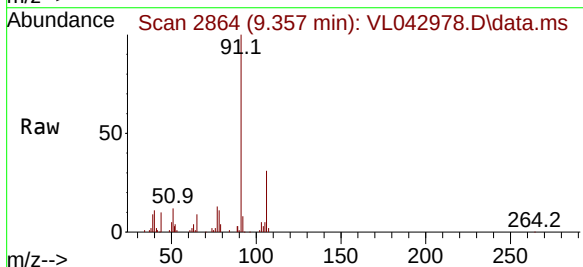
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1

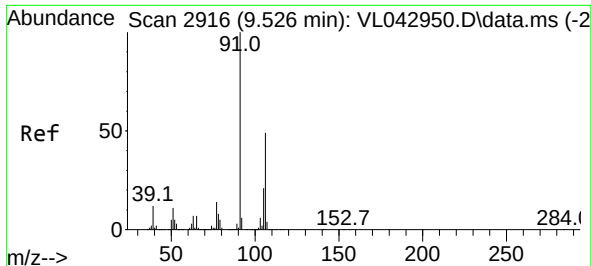
Tgt Ion:117 Resp: 381413
Ion Ratio Lower Upper
117 100
82 64.8 52.8 79.2
119 31.7 26.5 39.7



#58
Ethyl Benzene
Concen: 0.288 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.010 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

Tgt Ion: 91 Resp: 18057
Ion Ratio Lower Upper
91 100
106 30.1 24.6 37.0





#59

m/p-Xylene

Concen: 1.116 ppbv

RT: 9.532 min Scan# 2916

Delta R.T. 0.006 min

Lab File: VL042978.D

Acq: 23 Sep 2025 03:33

Instrument :

MSVOA_L

ClientSampleId :

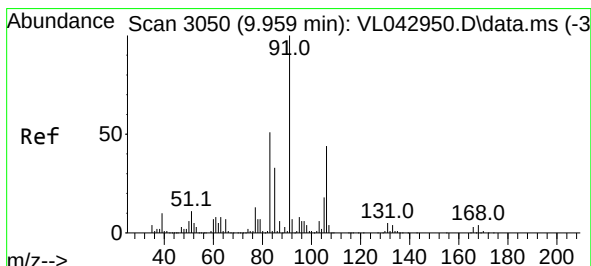
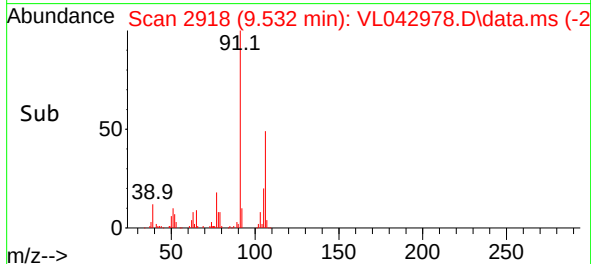
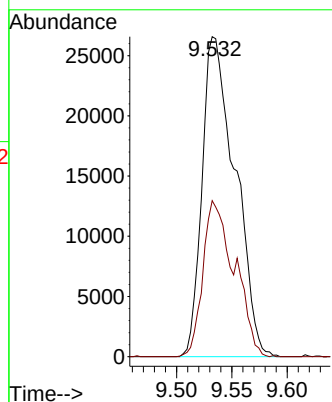
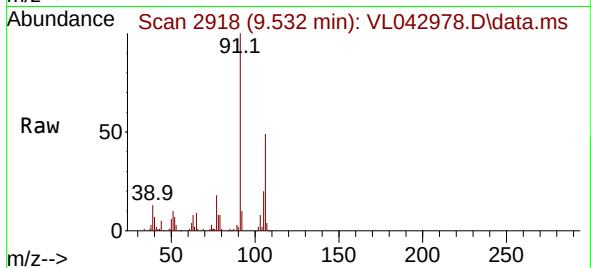
151-1A-1

Tgt Ion: 91 Resp: 55110

Ion Ratio Lower Upper

91 100

106 46.7 0.0 0.0#



#60

o-Xylene

Concen: 0.371 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.006 min

Lab File: VL042978.D

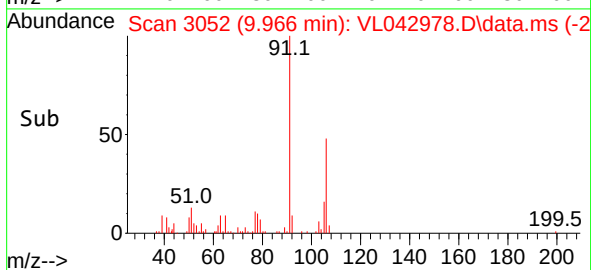
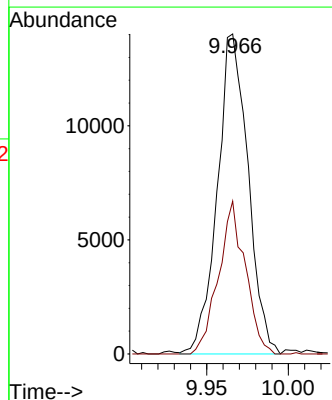
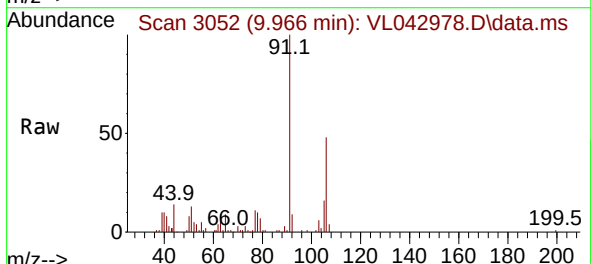
Acq: 23 Sep 2025 03:33

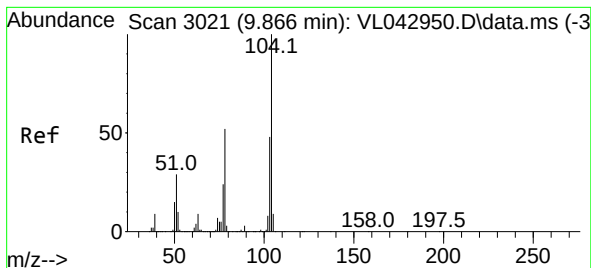
Tgt Ion: 91 Resp: 18333

Ion Ratio Lower Upper

91 100

106 41.8 22.4 67.0





#61

Styrene

Concen: 0.069 ppbv

RT: 9.878 min Scan# 3021

Delta R.T. 0.013 min

Lab File: VL042978.D

Acq: 23 Sep 2025 03:33

Instrument :

MSVOA_1

ClientSampleId :

151-1A-1

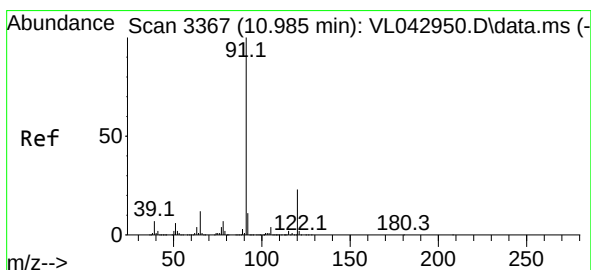
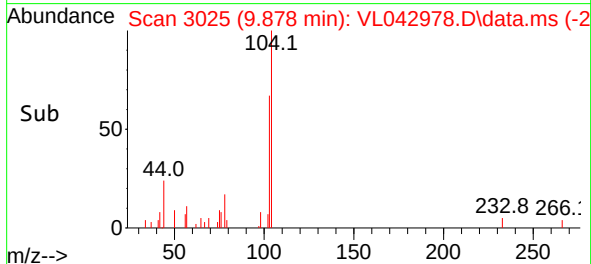
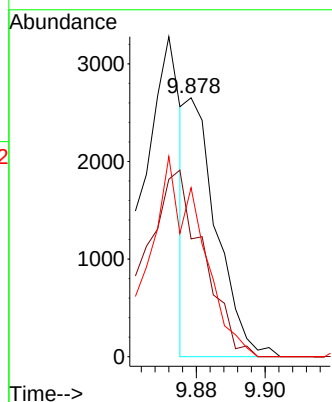
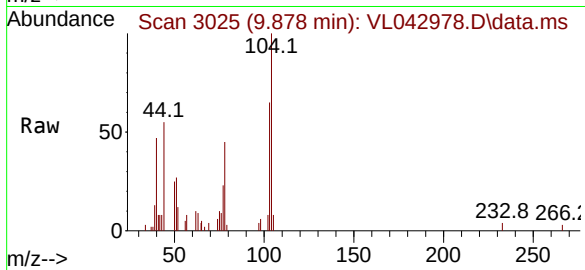
Tgt Ion:104 Resp: 1617

Ion Ratio Lower Upper

104 100

78 135.9 39.9 59.9#

103 0.0 36.9 55.3#



#64

n-propylbenzene

Concen: 0.040 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. 0.003 min

Lab File: VL042978.D

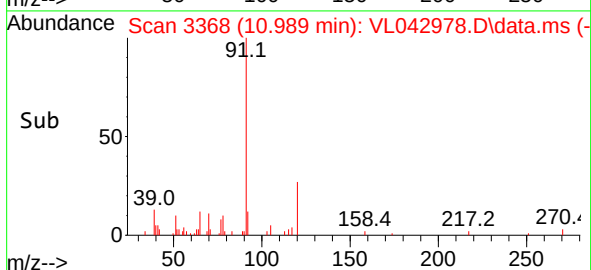
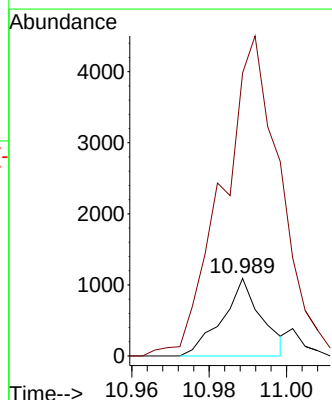
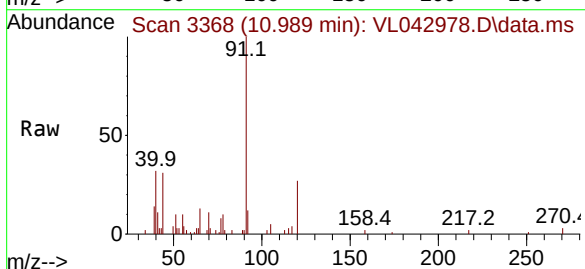
Acq: 23 Sep 2025 03:33

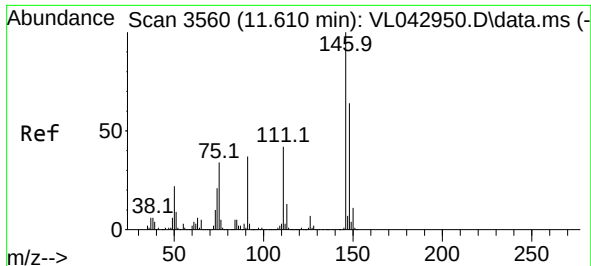
Tgt Ion:120 Resp: 766

Ion Ratio Lower Upper

120 100

91 624.2 364.9 547.3#

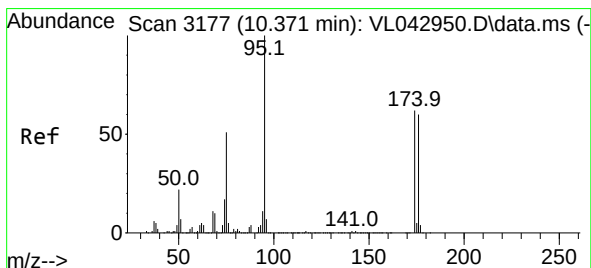
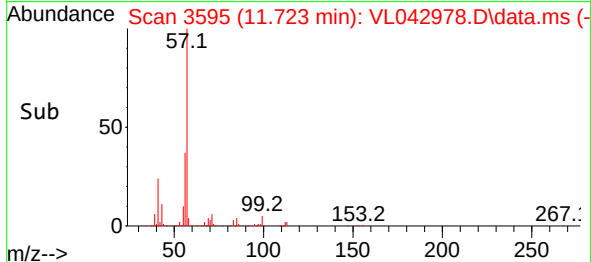
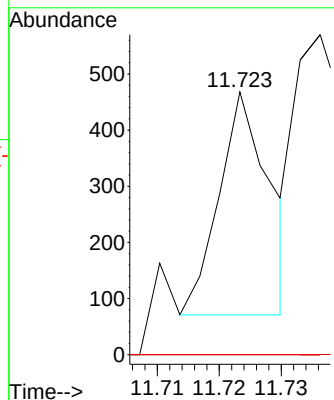
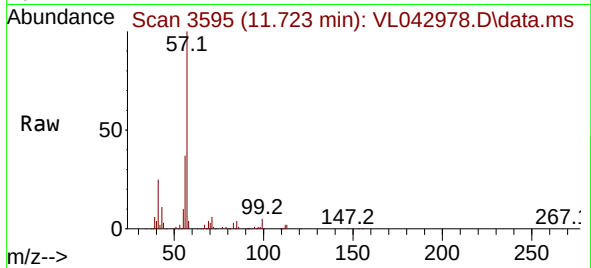




#66
Benzyl Chloride
Concen: 0.033 ppbv
RT: 11.723 min Scan# 3179
Delta R.T. 0.113 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

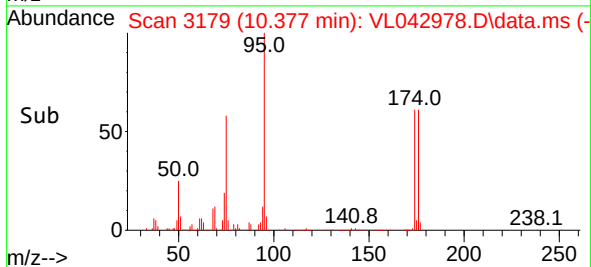
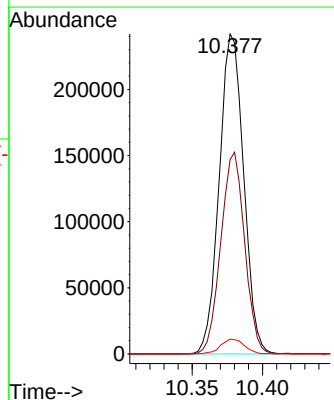
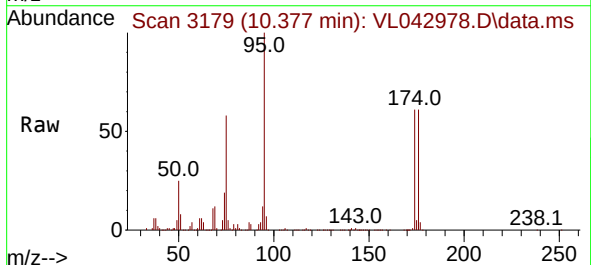
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1

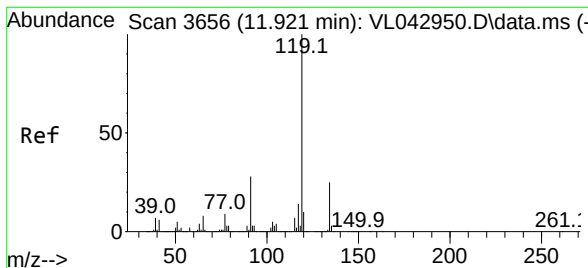
Tgt Ion: 91 Resp: 225
Ion Ratio Lower Upper
91 100
126 10.2 14.6 21.8#
128 0.0 5.0 7.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.277 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042978.D
Acq: 23 Sep 2025 03:33

Tgt Ion: 95 Resp: 292609
Ion Ratio Lower Upper
95 100
174 61.5 51.4 77.2
175 4.5 4.0 6.0





#69

p-Isopropyltoluene

Concen: 0.067 ppbv

RT: 11.927 min Scan# 3

Delta R.T. 0.006 min

Lab File: VL042978.D

Acq: 23 Sep 2025 03:33

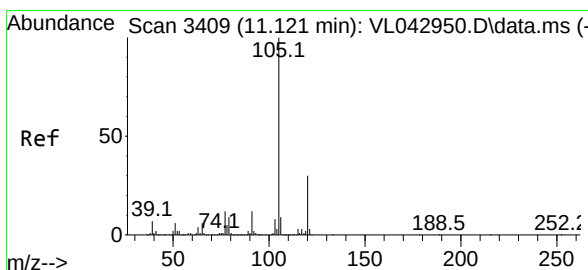
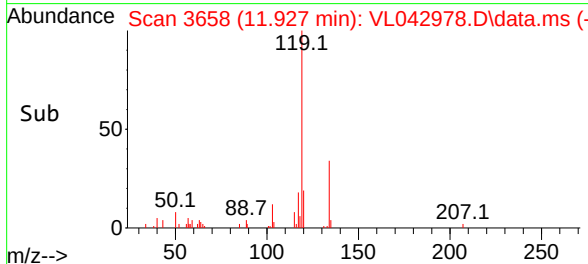
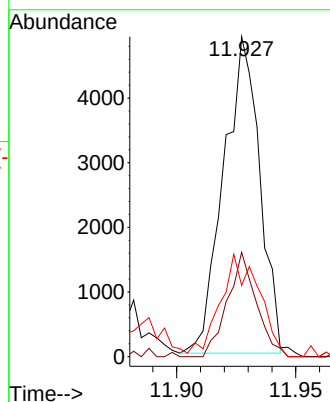
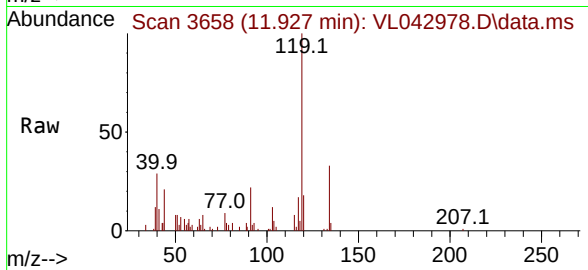
Instrument :

MSVOA_1

ClientSampleId :

151-1A-1

Tgt Ion:119	Resp:	5159
Ion	Ratio	Lower Upper
119	100	
134	27.3	21.0 31.4
91	36.2	22.3 33.5#



#72

4-Ethyltoluene

Concen: 0.084 ppbv

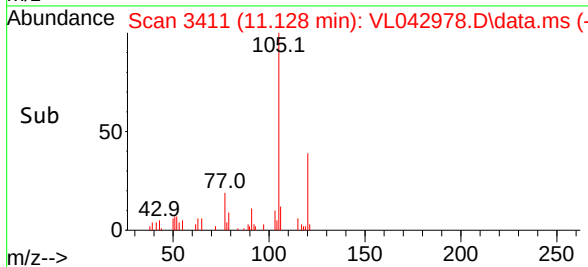
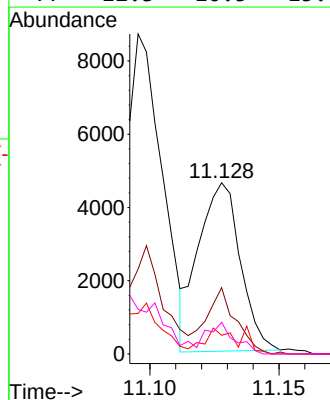
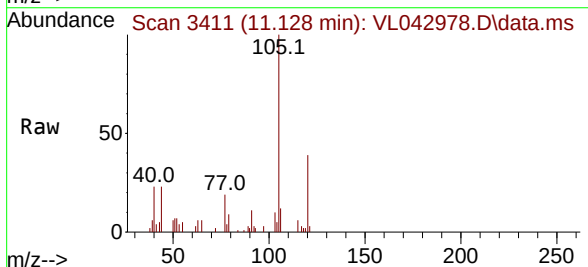
RT: 11.128 min Scan# 3411

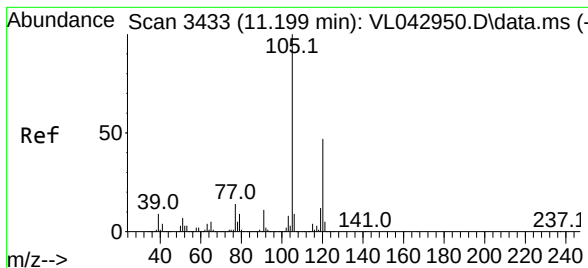
Delta R.T. 0.006 min

Lab File: VL042978.D

Acq: 23 Sep 2025 03:33

Tgt Ion:105	Resp:	5187
Ion	Ratio	Lower Upper
105	100	
120	25.6	24.2 36.2
91	11.9	10.0 15.0
77	12.3	10.5 15.7





#73

1,3,5-Trimethylbenzene

Concen: 0.061 ppbv

RT: 11.205 min Scan# 3433

Delta R.T. 0.006 min

Lab File: VL042978.D

Acq: 23 Sep 2025 03:33

Instrument :

MSVOA_L

ClientSampleId :

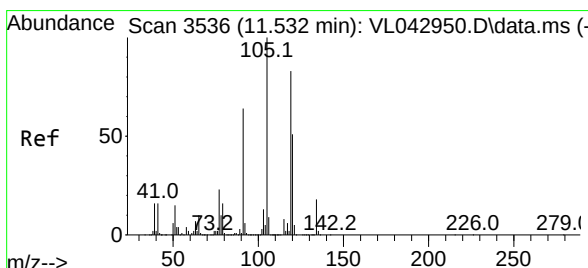
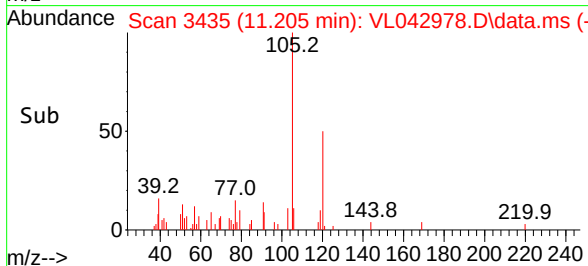
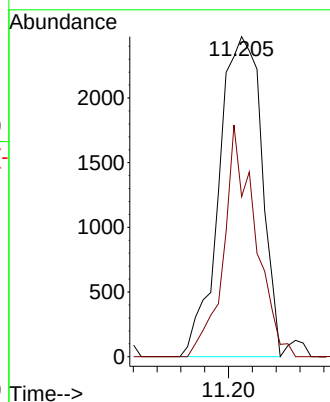
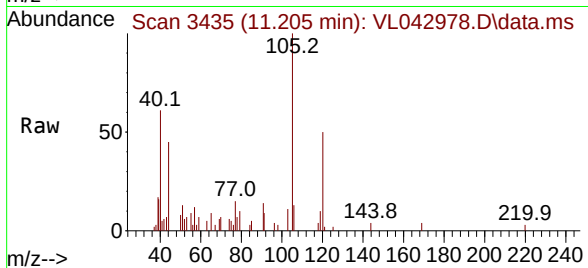
151-1A-1

Tgt Ion:105 Resp: 3082

Ion Ratio Lower Upper

105 100

120 50.0 38.0 57.0



#74

1,2,4-Trimethylbenzene

Concen: 0.259 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.006 min

Lab File: VL042978.D

Acq: 23 Sep 2025 03:33

Tgt Ion:105 Resp: 14343

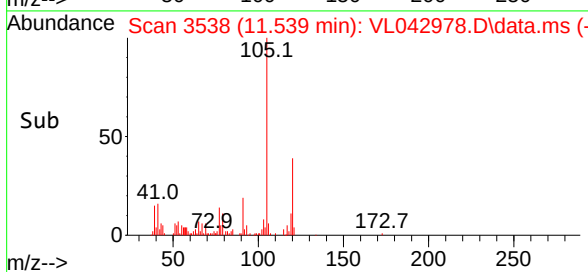
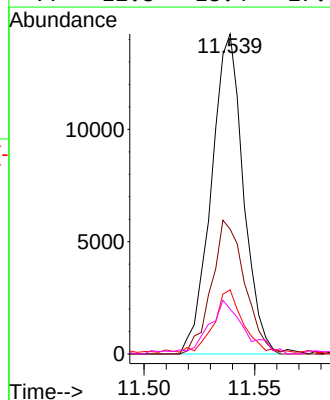
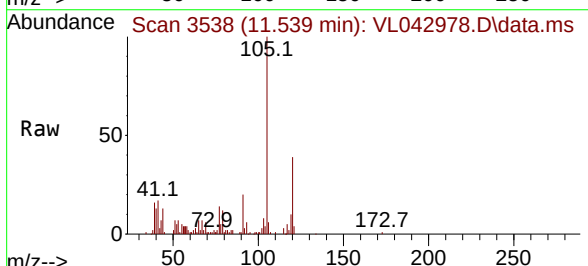
Ion Ratio Lower Upper

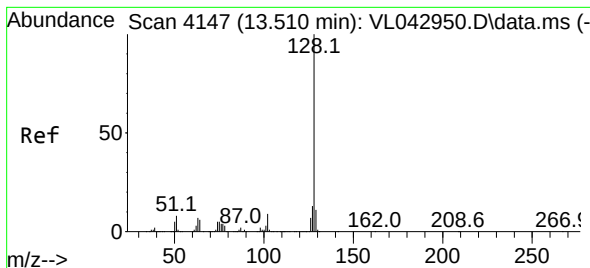
105 100

120 39.0 40.9 61.3#

91 19.4 51.2 76.8#

77 12.8 18.4 27.6#





#79

Naphthalene

Concen: 0.070 ppbv

RT: 13.516 min Scan# 4147

Delta R.T. 0.006 min

Lab File: VL042978.D

Acq: 23 Sep 2025 03:33

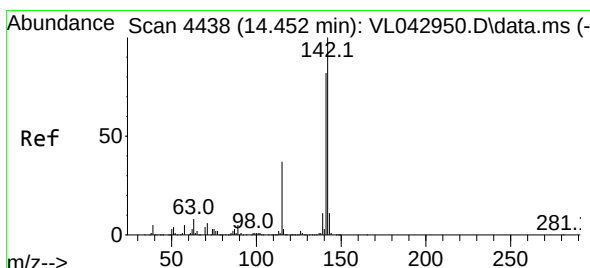
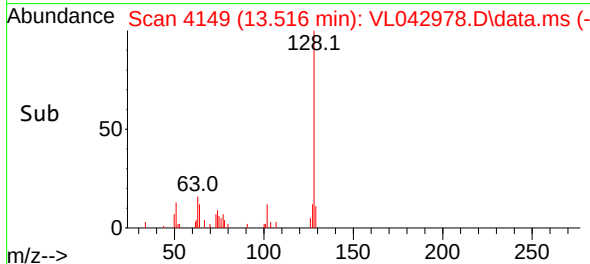
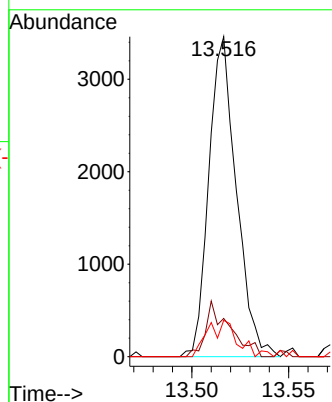
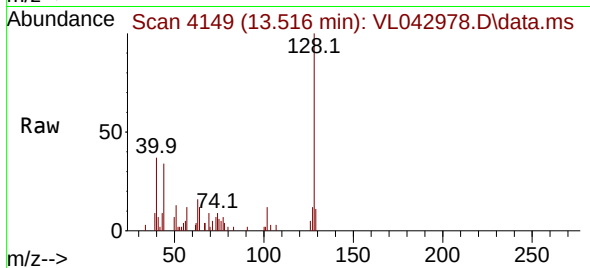
Instrument :

MSVOA_L

ClientSampleId :

151-1A-1

Tgt Ion:128	Resp:	3424
Ion Ratio	Lower	Upper
128	100	
127	11.9	10.6 15.8
129	11.3	9.0 13.6



#80

Naphthalene,2-methyl-

Concen: 0.260 ppbv

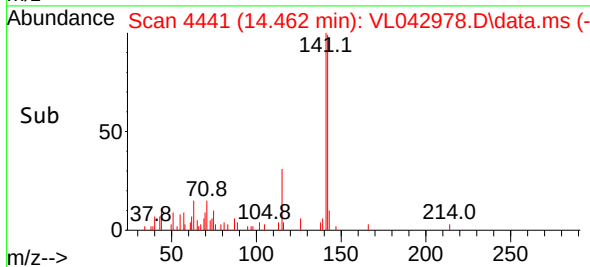
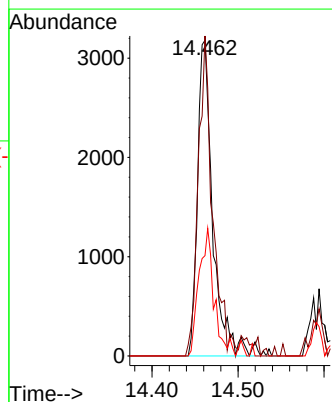
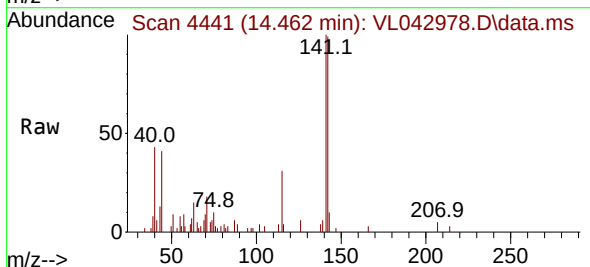
RT: 14.462 min Scan# 4441

Delta R.T. 0.010 min

Lab File: VL042978.D

Acq: 23 Sep 2025 03:33

Tgt Ion:142	Resp:	3925
Ion Ratio	Lower	Upper
142	100	
141	101.7	65.1 97.7#
115	41.9	28.9 43.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042979.D
 Acq On : 23 Sep 2025 04:08
 Operator : SY/MD
 Sample : Q3132-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-1A-1DL

Quant Time: Sep 24 01:15:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	150287	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	424605	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	372157	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	285913	10.292	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.900%

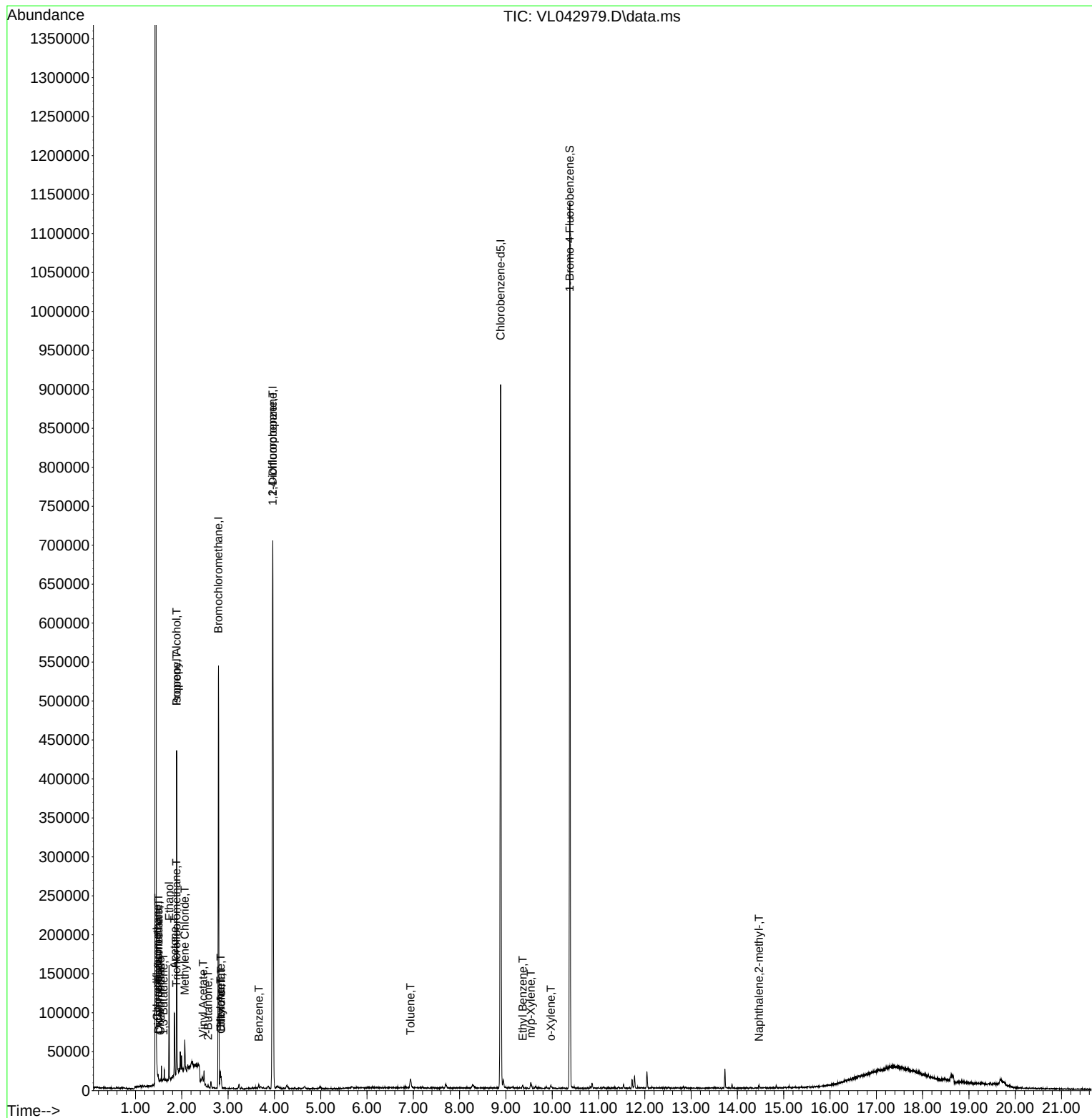
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.499	85	997	0.049	ppbv #	84
3) Chlorodifluoromethane	1.466	51	2826	0.112	ppbv #	79
4) Chloromethane	1.534	50	672	0.073	ppbv	91
8) Dichlorotetrafluoroethane	1.499	85	997	0.058	ppbv #	19
9) Propene	1.887	41	15680	1.431	ppbv	92
11) Trichlorofluoromethane	1.881	101	1084	0.056	ppbv	91
13) Ethanol	1.725	45	50434	47.435	ppbv	95
15) Acetone	1.839	43	38669	1.975	ppbv	92
16) 1,3-Butadiene	1.602	39	520	0.056	ppbv #	11
19) Isopropyl Alcohol	1.887	45	178860	15.200	ppbv #	38
20) Methylene Chloride	2.065	84	4978	0.196	ppbv	96
23) Vinyl Acetate	2.460	43	1330	0.048	ppbv #	1
25) Ethyl Acetate	2.842	43	5080	0.103	ppbv #	75
26) Hexane	2.832	57	4418	0.196	ppbv #	72
29) Chloroform	2.852	83	3102	0.105	ppbv	84
34) 2-Butanone	2.567	43	2374	0.080	ppbv	96
36) Benzene	3.664	78	2312	0.058	ppbv #	80
39) 1,2-Dichloropropane	3.962	63	108310	7.441	ppbv #	23
53) Toluene	6.940	91	8013	0.170	ppbv	95
58) Ethyl Benzene	9.361	91	2099	0.034	ppbv #	84
59) m/p-Xylene	9.539	91	3140	0.065	ppbv #	100
60) o-Xylene	9.969	91	1713	0.036	ppbv	95
80) Naphthalene,2-methyl-	14.468	142	1235	0.084	ppbv #	89

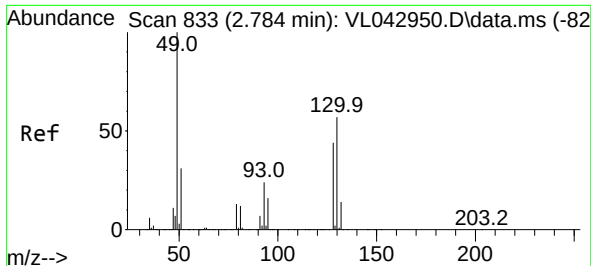
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042979.D
Acq On : 23 Sep 2025 04:08
Operator : SY/MD
Sample : Q3132-01DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
151-1A-1DL

Quant Time: Sep 24 01:15:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

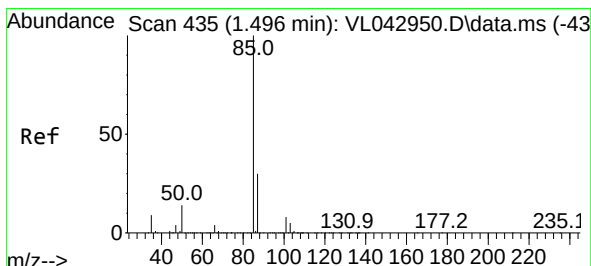
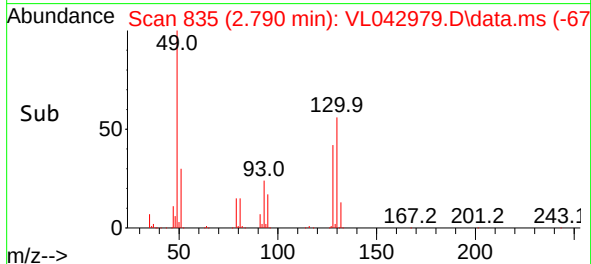
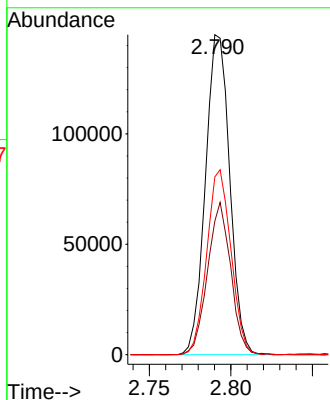
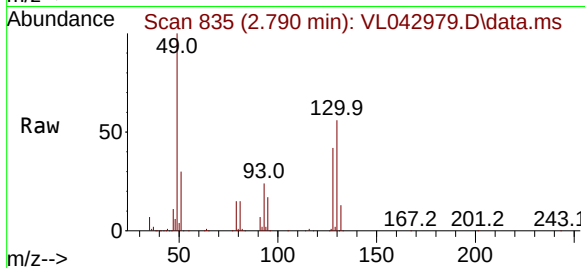




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

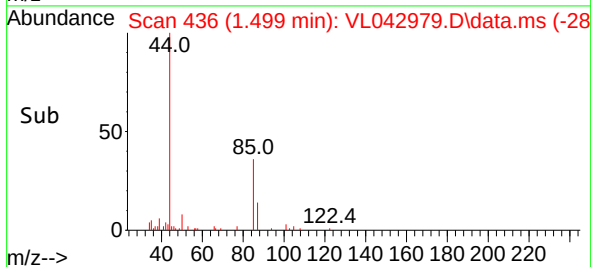
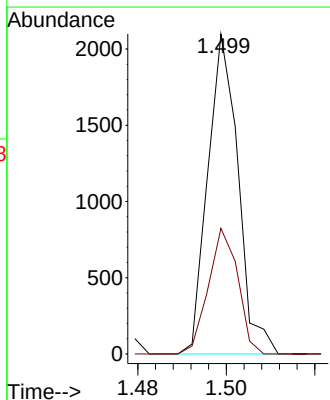
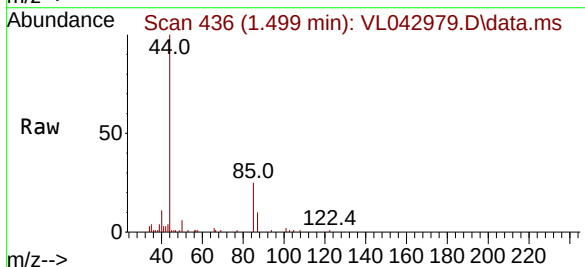
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1DL

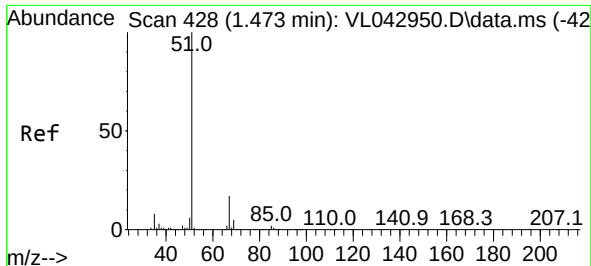
Tgt Ion: 49 Resp: 150287
Ion Ratio Lower Upper
49 100
128 45.4 22.9 68.8
130 57.6 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 0.049 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Tgt Ion: 85 Resp: 997
Ion Ratio Lower Upper
85 100
87 39.3 24.3 36.5#

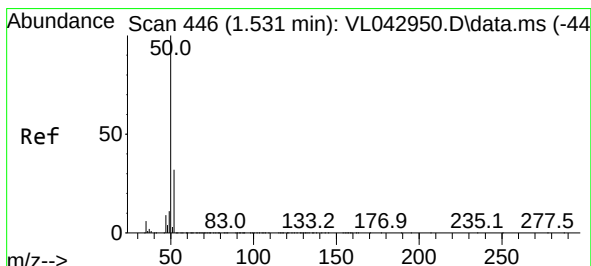
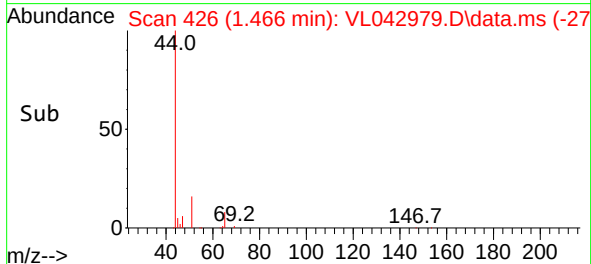
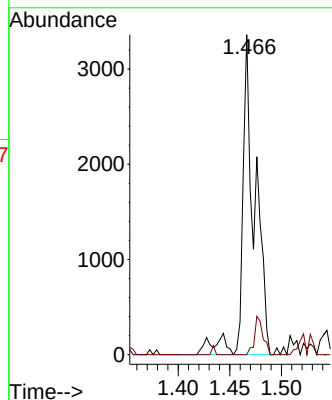
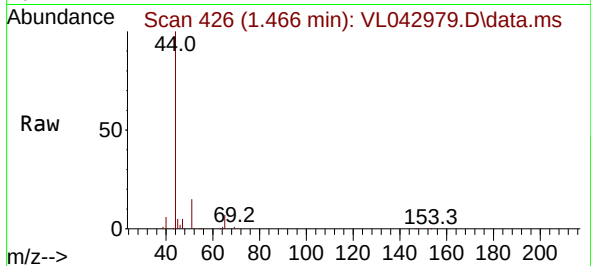




#3
Chlorodifluoromethane
Concen: 0.112 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

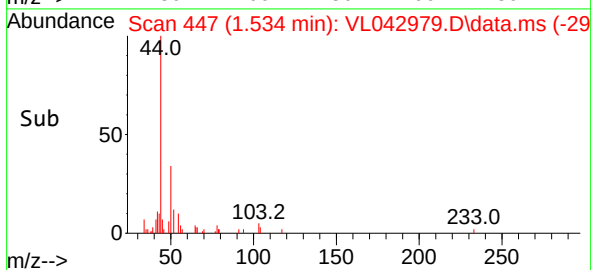
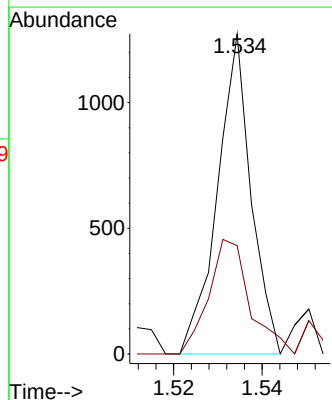
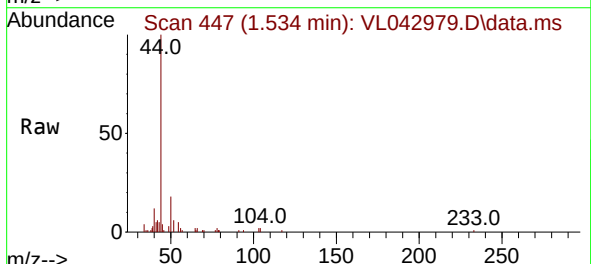
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1DL

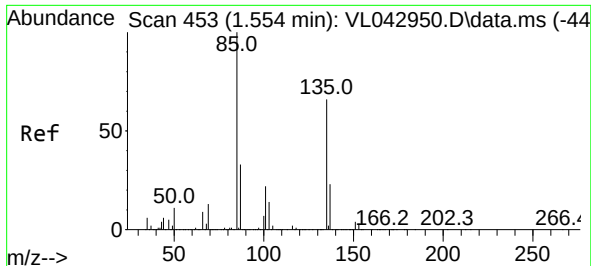
Tgt Ion: 51 Resp: 2826
Ion Ratio Lower Upper
51 100
67 8.2 13.8 20.8#



#4
Chloromethane
Concen: 0.073 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Tgt Ion: 50 Resp: 672
Ion Ratio Lower Upper
50 100
52 37.4 25.9 38.9

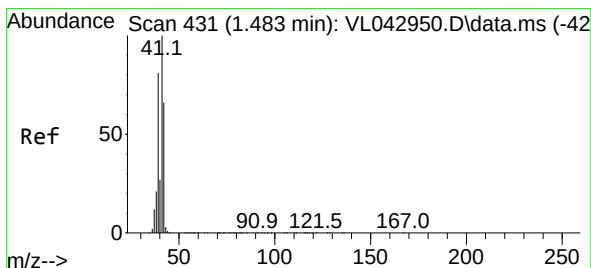
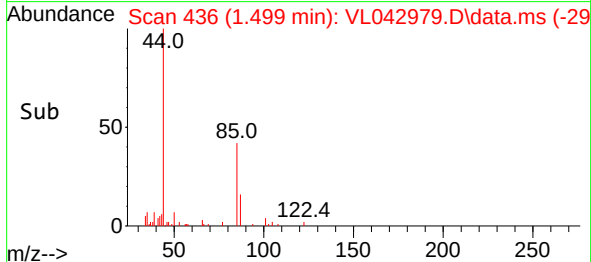
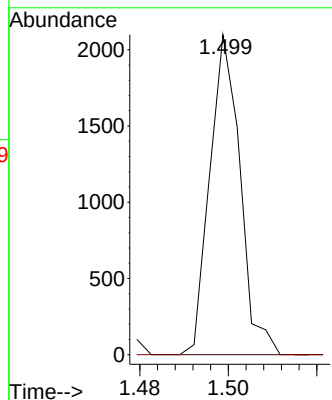
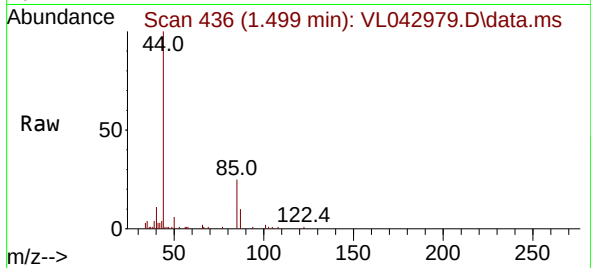




#8
Dichlorotetrafluoroethane
Concen: 0.058 ppbv
RT: 1.499 min Scan# 41
Delta R.T. -0.055 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

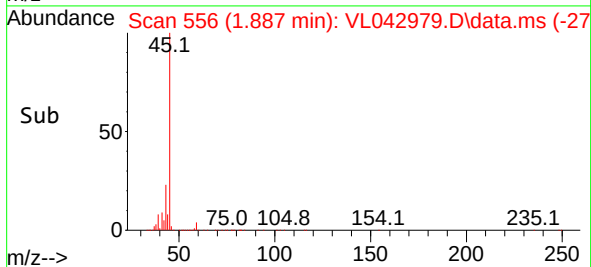
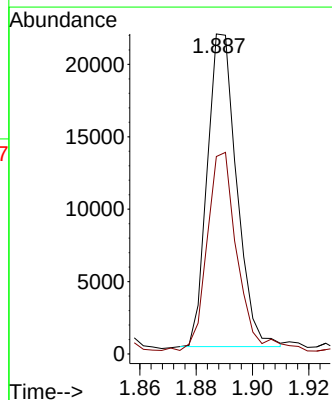
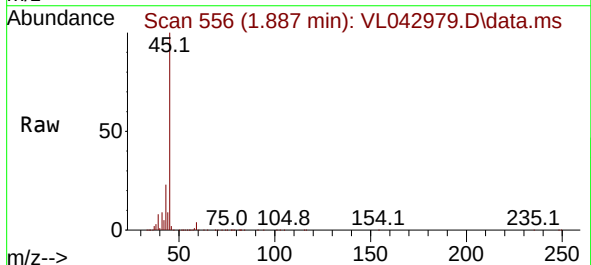
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1DL

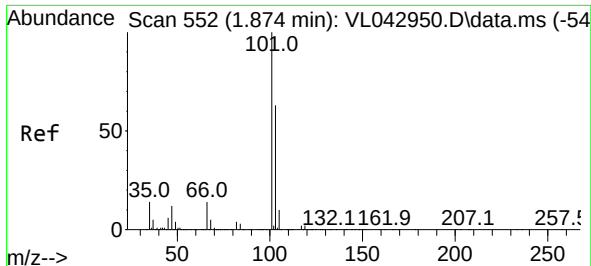
Tgt Ion: 85 Resp: 997
Ion Ratio Lower Upper
85 100
135 0.0 49.7 74.5#



#9
Propene
Concen: 1.431 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.404 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Tgt Ion: 41 Resp: 15680
Ion Ratio Lower Upper
41 100
42 64.9 57.4 86.2

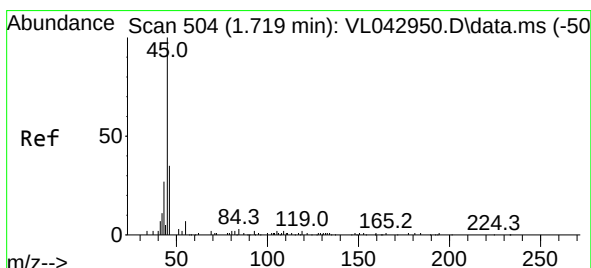
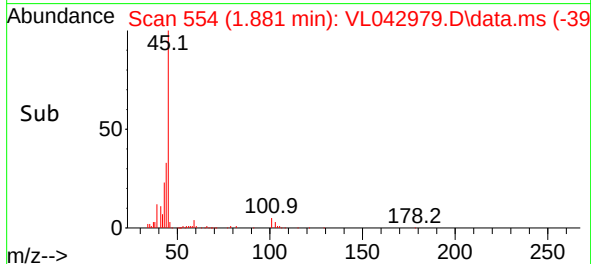
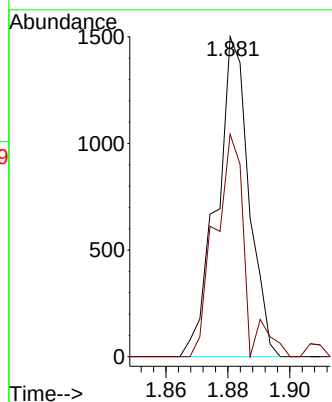
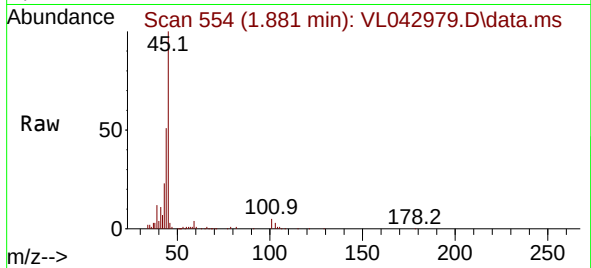




#11
 Trichlorofluoromethane
 Concen: 0.056 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VL042979.D
 Acq: 23 Sep 2025 04:08

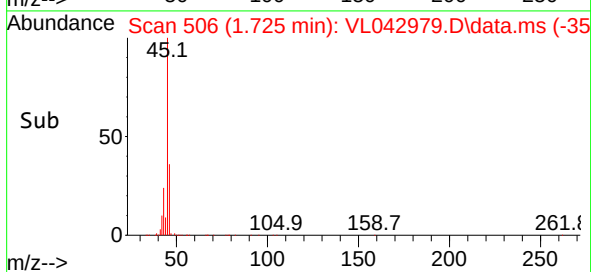
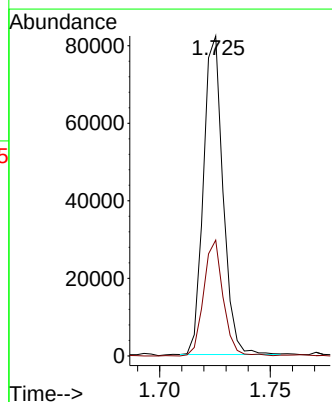
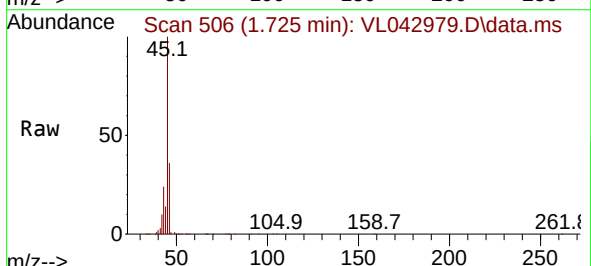
Instrument :
 MSVOA_L
 ClientSampleId :
 151-1A-1DL

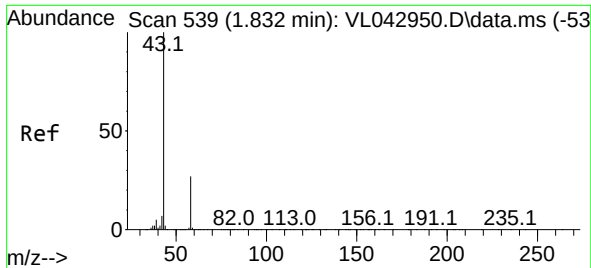
Tgt Ion:101 Resp: 1084
 Ion Ratio Lower Upper
 101 100
 103 69.5 50.1 75.1



#13
 Ethanol
 Concen: 47.435 ppbv
 RT: 1.725 min Scan# 506
 Delta R.T. 0.006 min
 Lab File: VL042979.D
 Acq: 23 Sep 2025 04:08

Tgt Ion: 45 Resp: 50434
 Ion Ratio Lower Upper
 45 100
 46 37.4 16.2 64.6





#15

Acetone

Concen: 1.975 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.006 min

Lab File: VL042979.D

Acq: 23 Sep 2025 04:08

Instrument :

MSVOA_L

ClientSampleId :

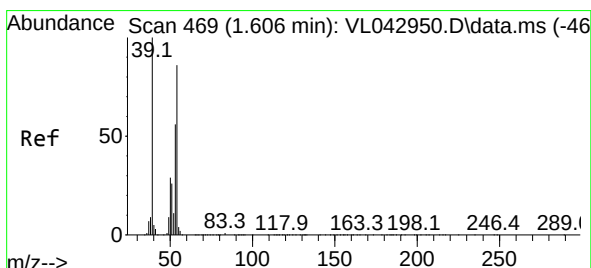
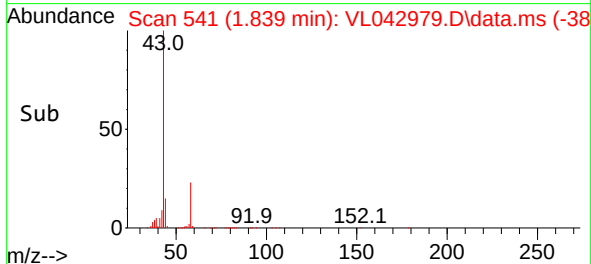
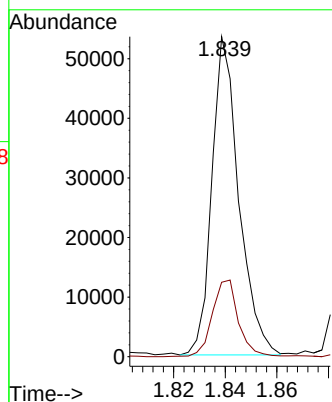
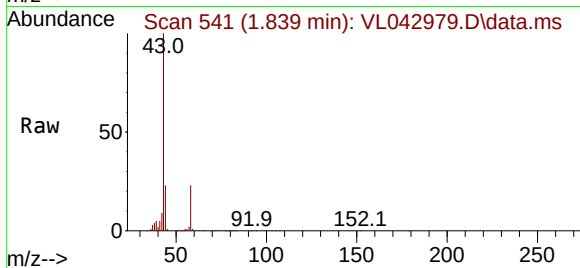
151-1A-1DL

Tgt Ion: 43 Resp: 38669

Ion Ratio Lower Upper

43 100

58 23.7 22.3 33.5



#16

1,3-Butadiene

Concen: 0.056 ppbv

RT: 1.602 min Scan# 468

Delta R.T. -0.003 min

Lab File: VL042979.D

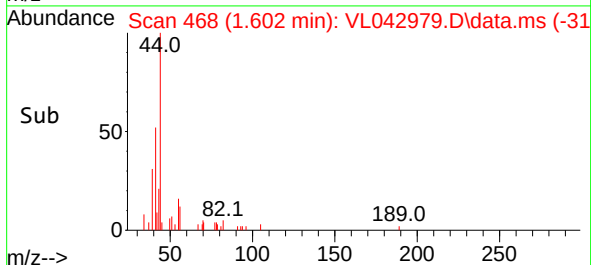
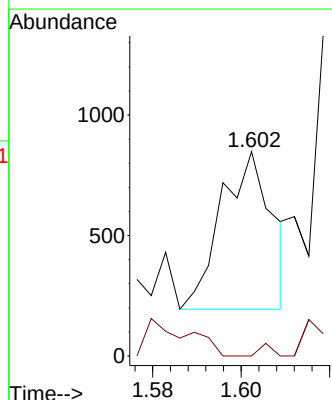
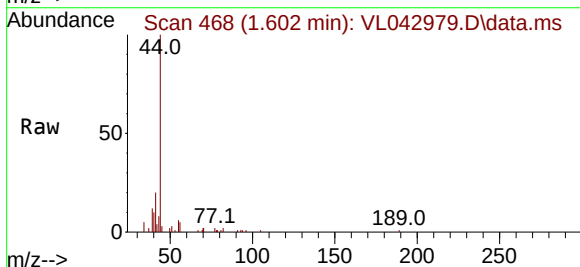
Acq: 23 Sep 2025 04:08

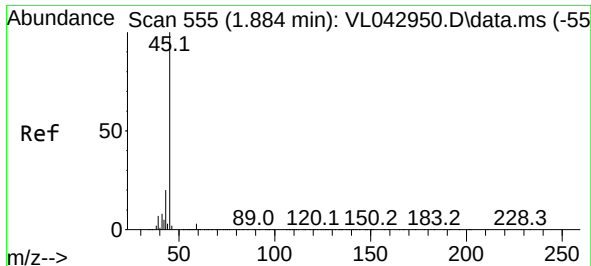
Tgt Ion: 39 Resp: 520

Ion Ratio Lower Upper

39 100

54 0.0 60.8 91.2#

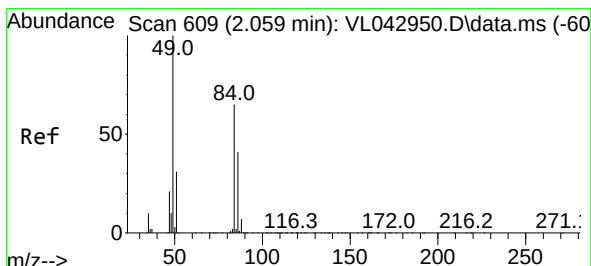
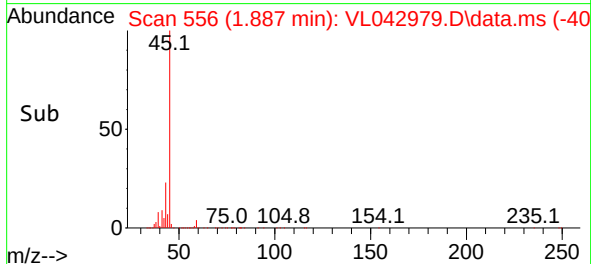
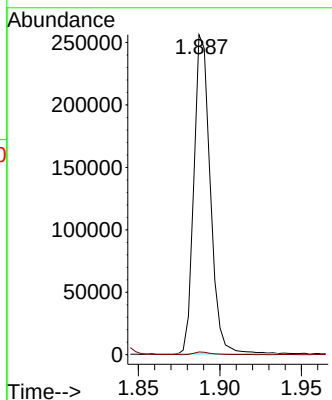
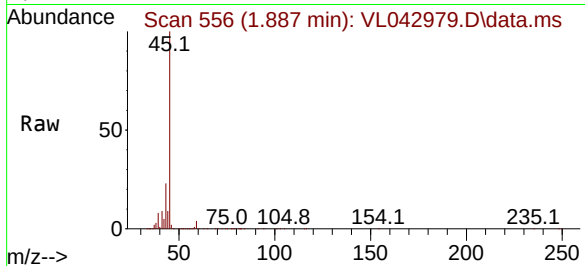




#19
Isopropyl Alcohol
Concen: 15.200 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

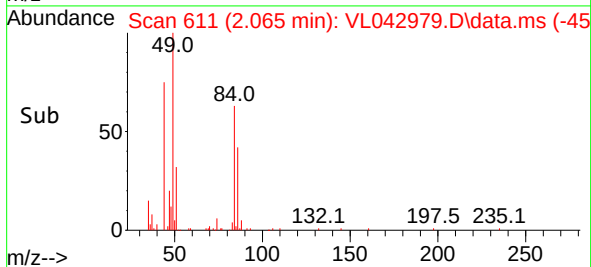
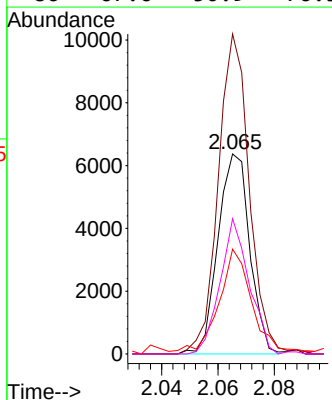
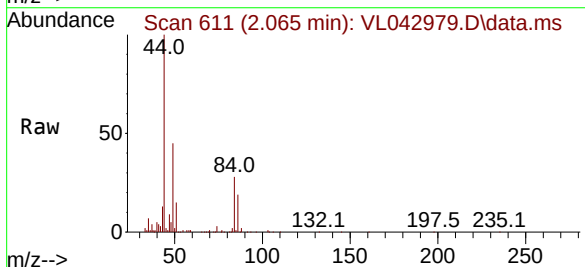
Instrument :
MSVOA_1
ClientSampleId :
151-1A-1DL

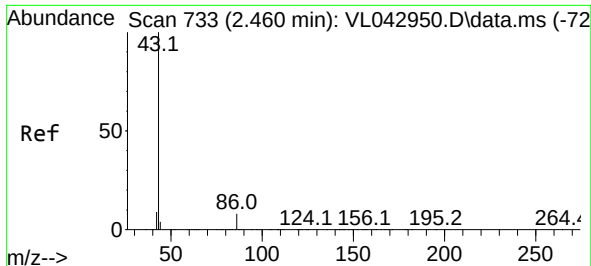
Tgt Ion: 45 Resp: 178860
Ion Ratio Lower Upper
45 100
58 0.9 31.0 46.6#



#20
Methylene Chloride
Concen: 0.196 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Tgt Ion: 84 Resp: 4978
Ion Ratio Lower Upper
84 100
49 160.0 124.1 186.1
51 50.6 39.8 59.8
86 67.6 50.9 76.3

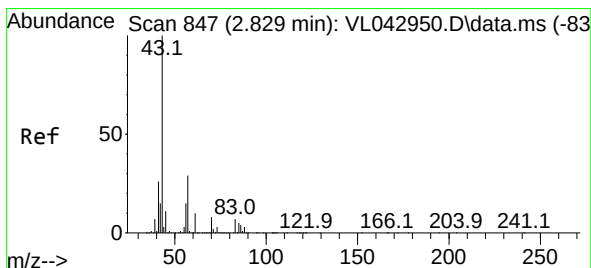
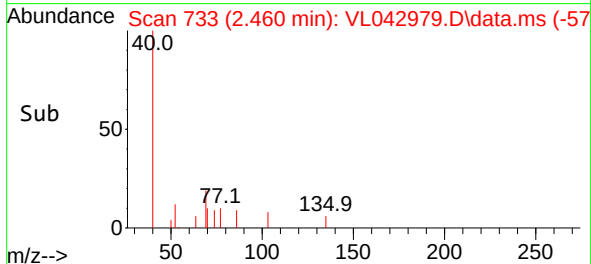
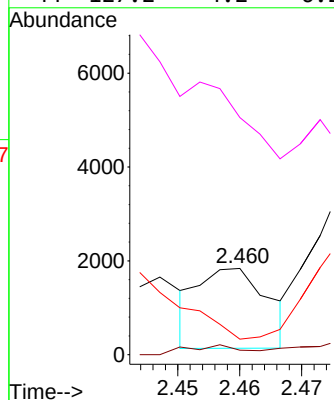
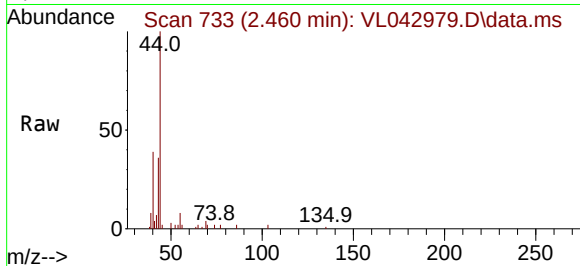




#23
 Vinyl Acetate
 Concen: 0.048 ppbv
 RT: 2.460 min Scan# 71
 Delta R.T. -0.000 min
 Lab File: VL042979.D
 Acq: 23 Sep 2025 04:08

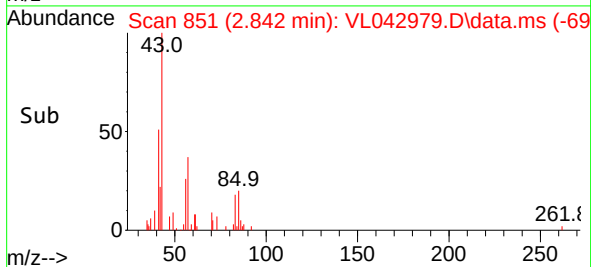
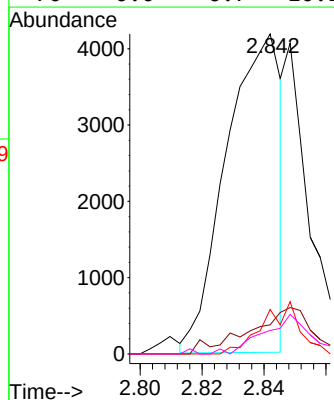
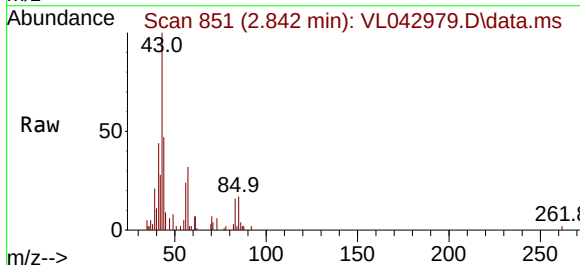
Instrument :
 MSVOA_1
 ClientSampleId :
 151-1A-1DL

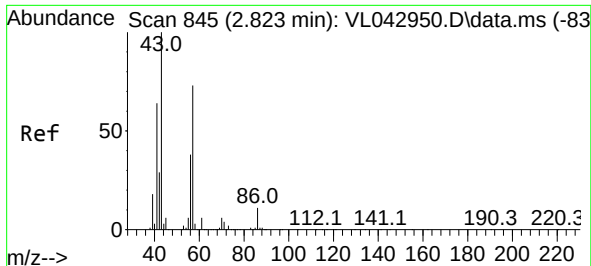
Tgt Ion:	43	Resp:	1330
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.2#
42	0.0	7.4	11.0#
44	127.2	4.2	6.2#



#25
 Ethyl Acetate
 Concen: 0.103 ppbv
 RT: 2.842 min Scan# 851
 Delta R.T. 0.013 min
 Lab File: VL042979.D
 Acq: 23 Sep 2025 04:08

Tgt Ion:	43	Resp:	5080
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.7	11.5#
61	0.0	7.1	10.7#
70	0.0	6.7	10.1#

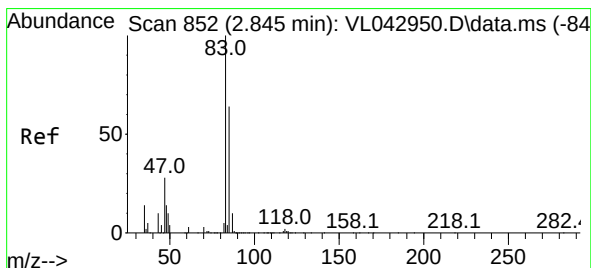
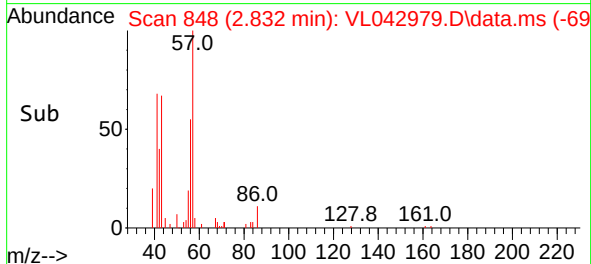
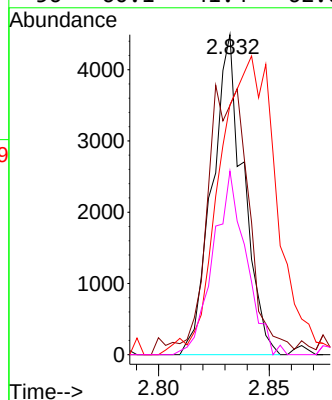
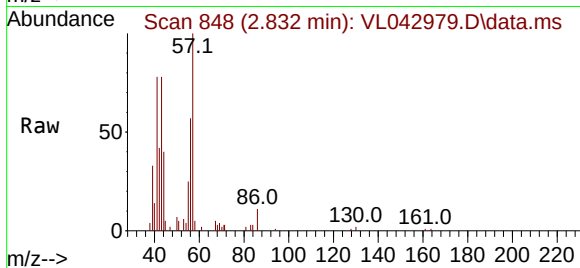




#26
Hexane
Concen: 0.196 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.010 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

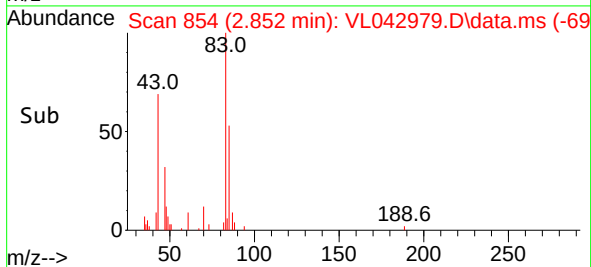
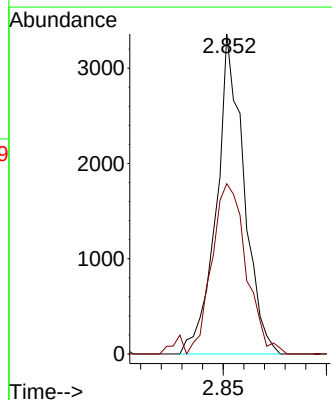
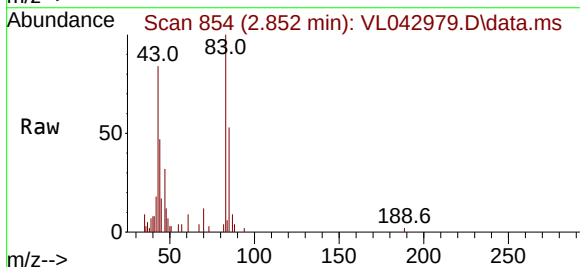
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1DL

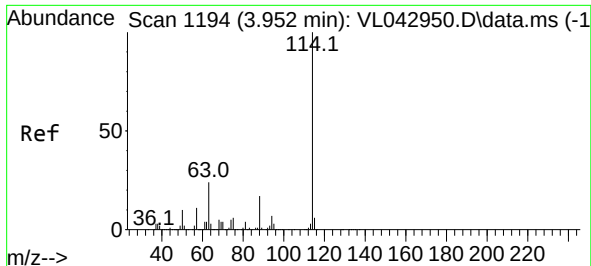
Tgt Ion: 57 Resp: 4418
Ion Ratio Lower Upper
57 100
41 115.3 71.7 107.5#
43 174.1 180.8 271.2#
56 60.1 41.4 62.0



#29
Chloroform
Concen: 0.105 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Tgt Ion: 83 Resp: 3102
Ion Ratio Lower Upper
83 100
85 51.4 51.2 76.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.013 min

Lab File: VL042979.D

Acq: 23 Sep 2025 04:08

Instrument :

MSVOA_L

ClientSampleId :

151-1A-1DL

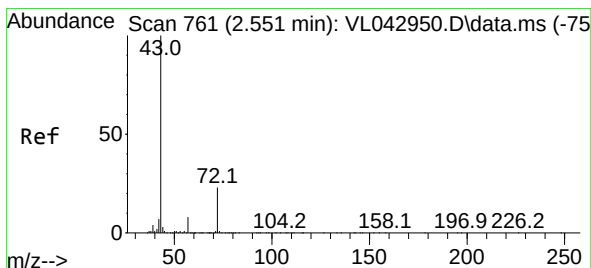
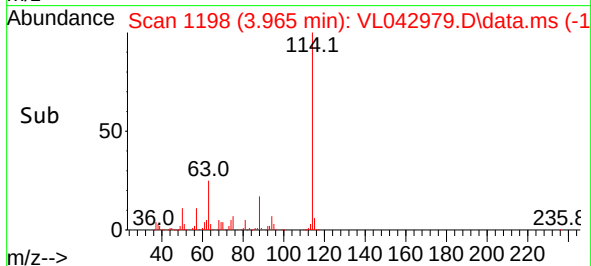
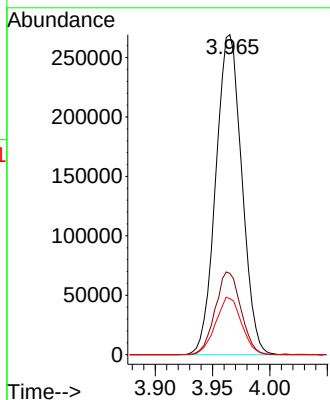
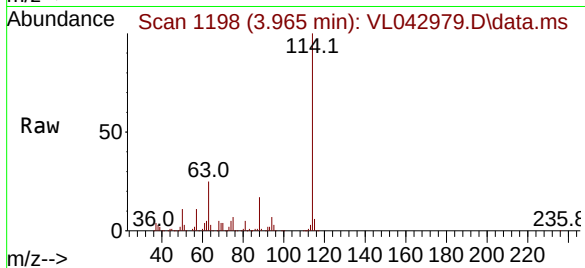
Tgt Ion:114 Resp: 424605

Ion Ratio Lower Upper

114 100

63 25.5 19.4 29.2

88 17.9 14.2 21.2



#34

2-Butanone

Concen: 0.080 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.016 min

Lab File: VL042979.D

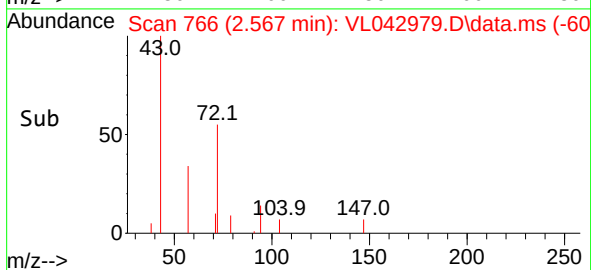
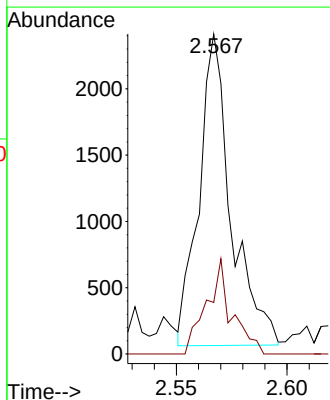
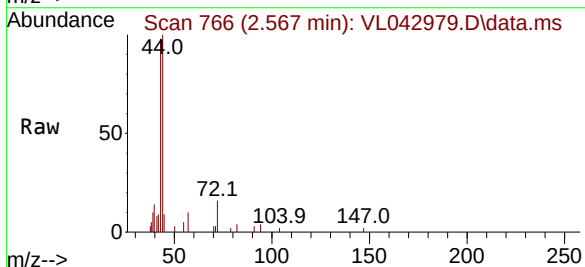
Acq: 23 Sep 2025 04:08

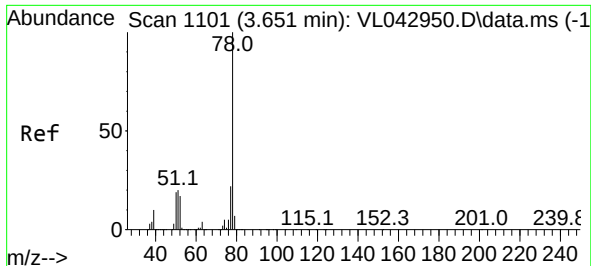
Tgt Ion: 43 Resp: 2374

Ion Ratio Lower Upper

43 100

72 24.0 17.7 26.5





#36

Benzene

Concen: 0.058 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.013 min

Lab File: VL042979.D

Acq: 23 Sep 2025 04:08

Instrument :

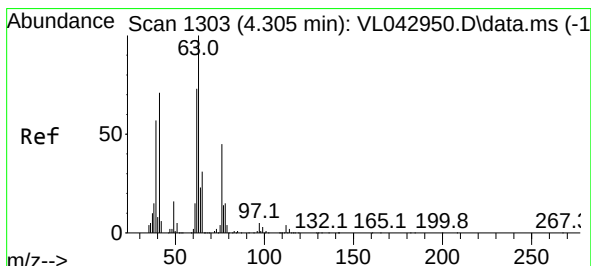
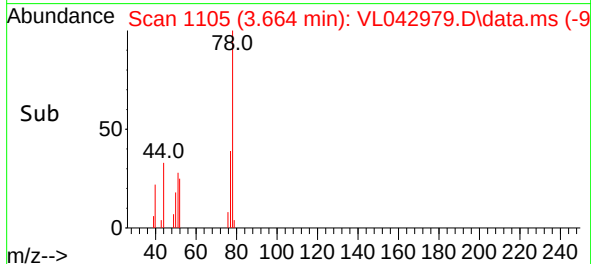
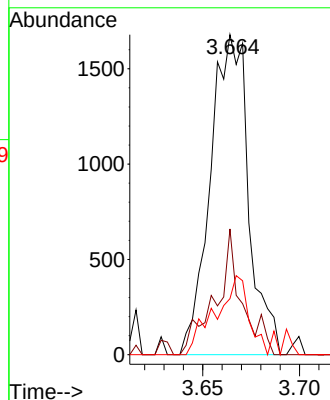
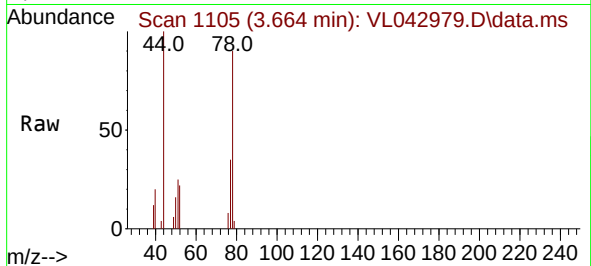
MSVOA_L

ClientSampleId :

151-1A-1DL

Tgt Ion: 78 Resp: 2312

Ion	Ratio	Lower	Upper
78	100		
77	37.8	17.8	26.6#
50	16.8	15.0	22.4



#39

1,2-Dichloropropane

Concen: 7.441 ppbv

RT: 3.962 min Scan# 1197

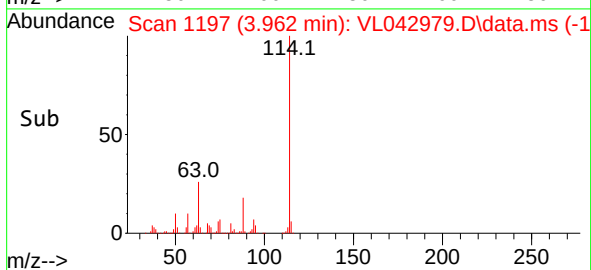
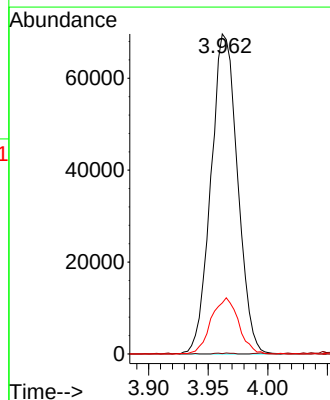
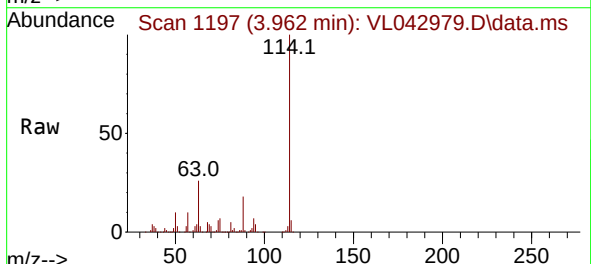
Delta R.T. -0.343 min

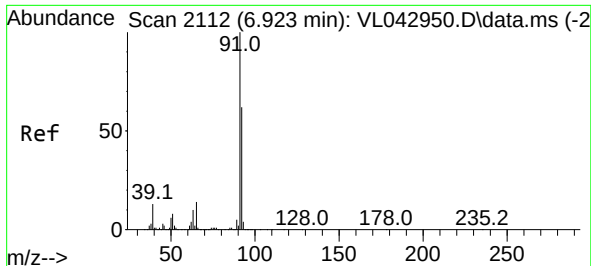
Lab File: VL042979.D

Acq: 23 Sep 2025 04:08

Tgt Ion: 63 Resp: 108310

Ion	Ratio	Lower	Upper
63	100		
41	0.1	57.5	86.3#
62	15.9	58.5	87.7#





#53

Toluene

Concen: 0.170 ppbv

RT: 6.940 min Scan# 2112

Delta R.T. 0.016 min

Lab File: VL042979.D

Acq: 23 Sep 2025 04:08

Instrument :

MSVOA_L

ClientSampleId :

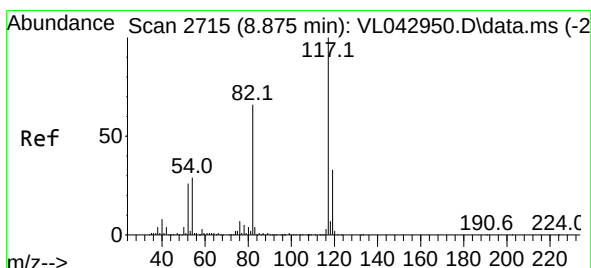
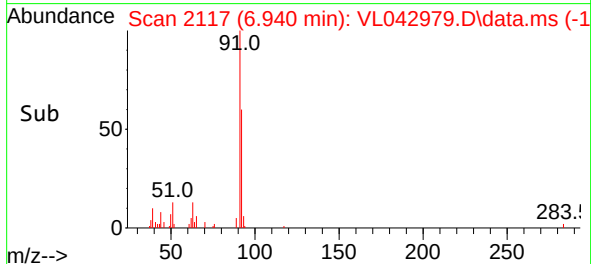
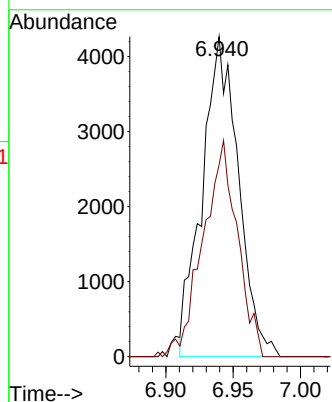
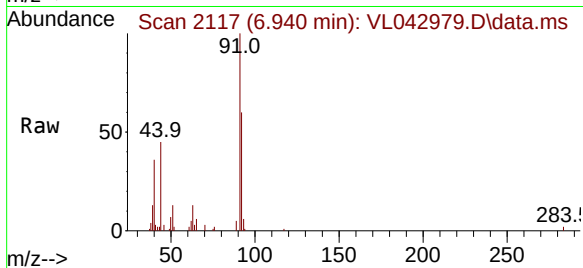
151-1A-1DL

Tgt Ion: 91 Resp: 8013

Ion Ratio Lower Upper

91 100

92 64.0 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.010 min

Lab File: VL042979.D

Acq: 23 Sep 2025 04:08

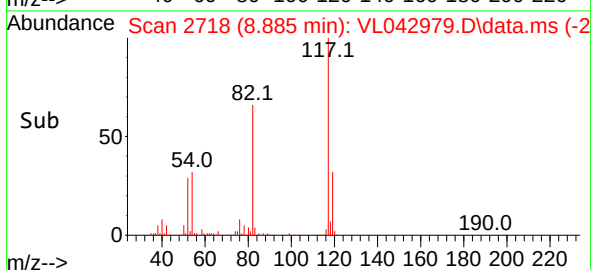
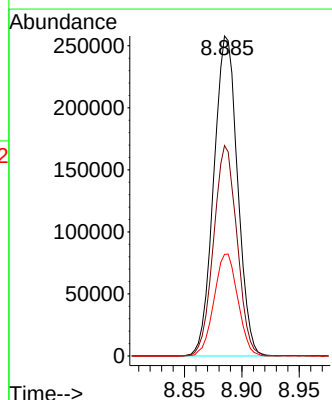
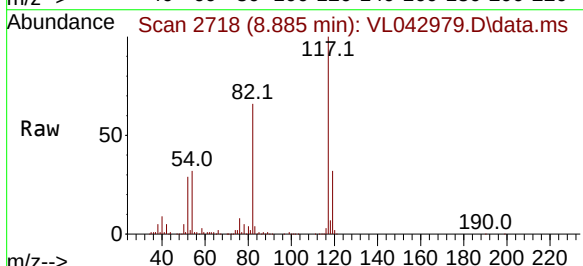
Tgt Ion: 117 Resp: 372157

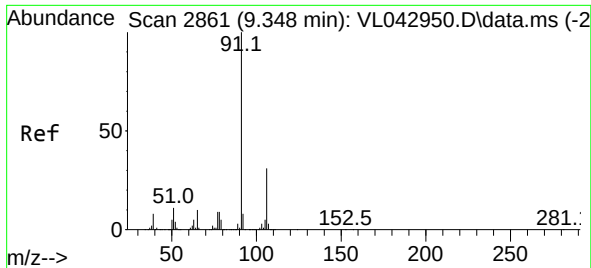
Ion Ratio Lower Upper

117 100

82 64.7 52.8 79.2

119 31.9 26.5 39.7

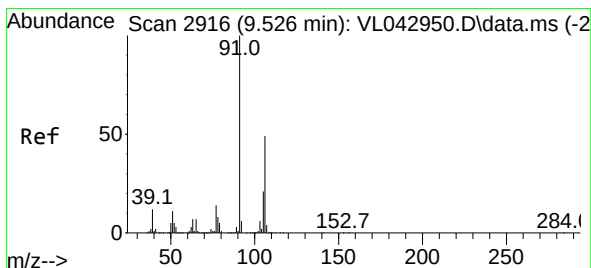
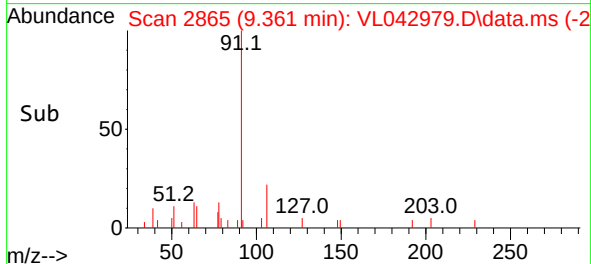
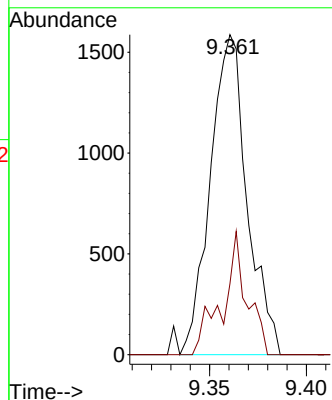
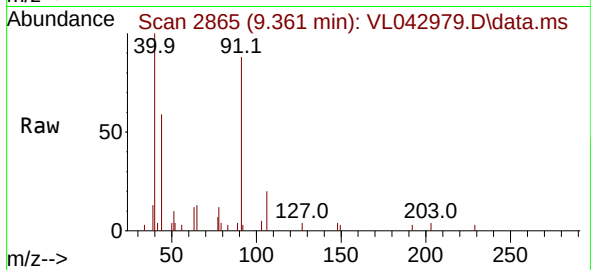




#58
Ethyl Benzene
Concen: 0.034 ppbv
RT: 9.361 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

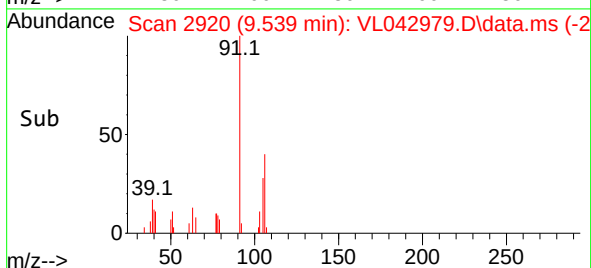
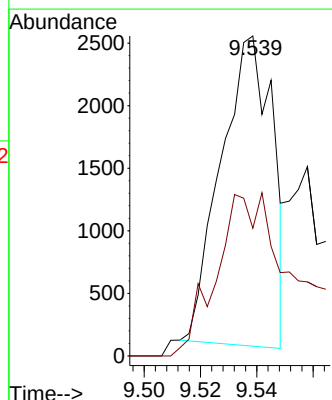
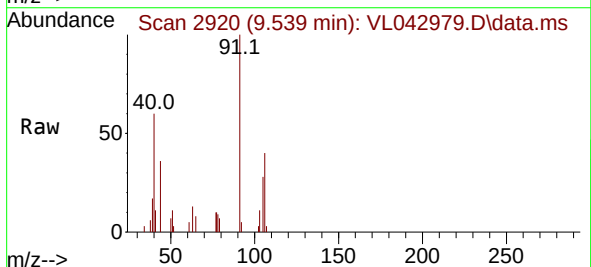
Instrument :
MSVOA_L
ClientSampleId :
151-1A-1DL

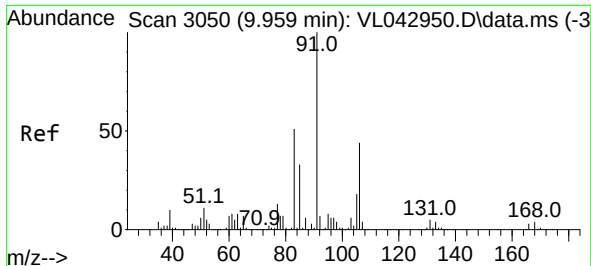
Tgt Ion: 91 Resp: 2099
Ion Ratio Lower Upper
91 100
106 22.2 24.6 37.0#



#59
m/p-Xylene
Concen: 0.065 ppbv
RT: 9.539 min Scan# 2920
Delta R.T. 0.013 min
Lab File: VL042979.D
Acq: 23 Sep 2025 04:08

Tgt Ion: 91 Resp: 3140
Ion Ratio Lower Upper
91 100
106 79.7 0.0 0.0#





#60

o-Xylene

Concen: 0.036 ppbv

RT: 9.969 min Scan# 3050

Delta R.T. 0.010 min

Lab File: VL042979.D

Acq: 23 Sep 2025 04:08

Instrument :

MSVOA_L

ClientSampleId :

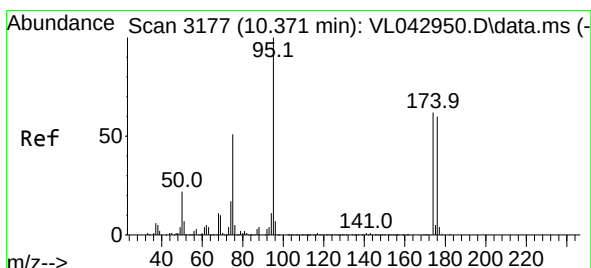
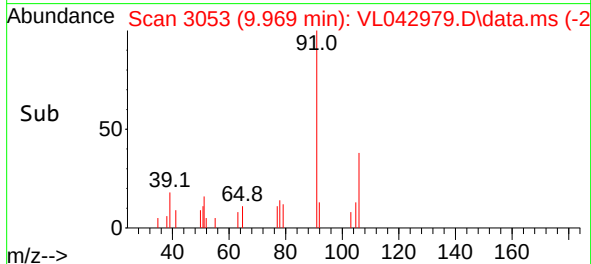
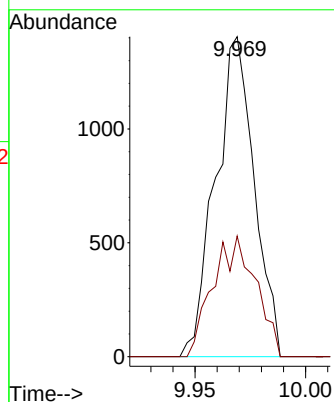
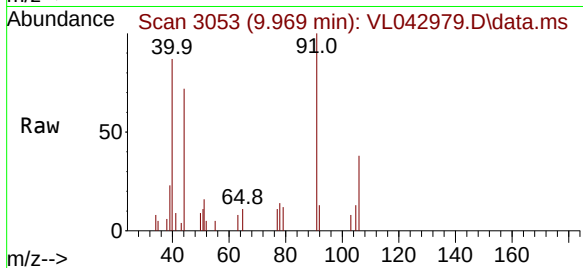
151-1A-1DL

Tgt Ion: 91 Resp: 1713

Ion Ratio Lower Upper

91 100

106 41.7 22.4 67.0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.292 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. 0.010 min

Lab File: VL042979.D

Acq: 23 Sep 2025 04:08

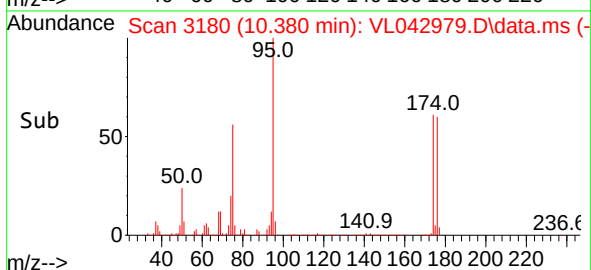
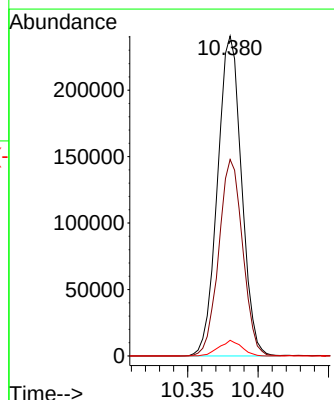
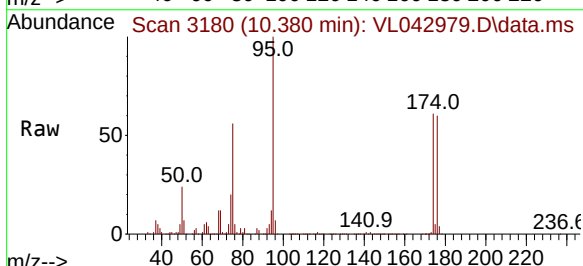
Tgt Ion: 95 Resp: 285913

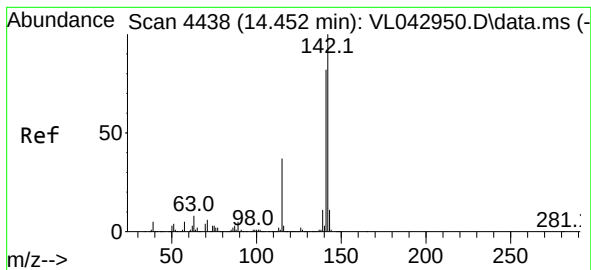
Ion Ratio Lower Upper

95 100

174 61.3 51.4 77.2

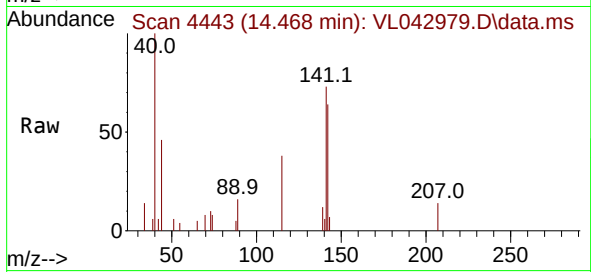
175 4.6 4.0 6.0



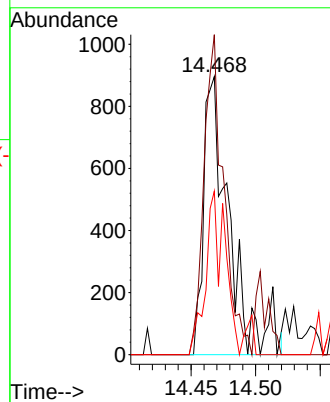
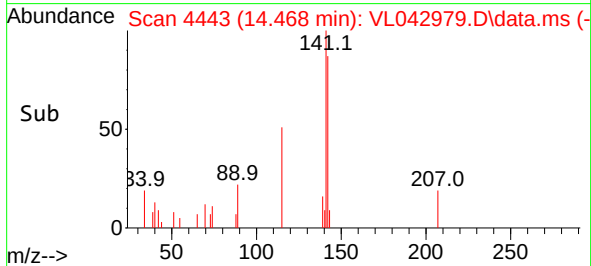


#80
 Naphthalene, 2-methyl-
 Concen: 0.084 ppbv
 RT: 14.468 min Scan# 44
 Delta R.T. 0.016 min
 Lab File: VL042979.D
 Acq: 23 Sep 2025 04:08

Instrument :
 MSVOA_L
 ClientSampleId :
 151-1A-1DL



Tgt Ion:	142	Resp:	1235
Ion	Ratio	Lower	Upper
142	100		
141	87.6	65.1	97.7
115	48.6	28.9	43.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042980.D
 Acq On : 23 Sep 2025 04:44
 Operator : SY/MD
 Sample : Q3132-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-1A-2

Quant Time: Sep 24 01:16:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	144544	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	414049	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	363422	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.380	95	284547	10.489	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.900%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8977	0.462	ppbv	98
3) Chlorodifluoromethane	1.466	51	20341	0.839	ppbv #	73
4) Chloromethane	1.534	50	4319	0.491	ppbv #	84
6) Bromomethane	1.664	94	91	0.032	ppbv	84
9) Propene	1.887	41	78927	7.487	ppbv	88
10) Heptane	4.988	43	5470	0.194	ppbv #	73
11) Trichlorofluoromethane	1.881	101	8542	0.456	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	1008	0.066	ppbv	91
13) Ethanol	1.722	45	341697	334.148	ppbv	96
15) Acetone	1.839	43	295004	15.670	ppbv	91
16) 1,3-Butadiene	1.606	39	1393	0.157	ppbv #	11
17) tert-Butyl alcohol	1.887	59	32235	1.561	ppbv	97
19) Isopropyl Alcohol	1.887	45	847050	74.844	ppbv #	38
20) Methylene Chloride	2.065	84	7194	0.656	ppbv #	83
21) Allyl Chloride	2.081	41	2009	0.153	ppbv #	1
23) Vinyl Acetate	2.476	43	34411	1.279	ppbv #	54
25) Ethyl Acetate	2.832	43	85787	1.803	ppbv #	92
26) Hexane	2.832	57	73023	3.367	ppbv #	57
27) Carbon Disulfide	2.153	76	820	0.042	ppbv #	43
29) Chloroform	2.852	83	26341	0.929	ppbv	97
30) Cyclohexane	3.865	84	2892	0.159	ppbv #	30
31) cis-1,2-Dichloroethene	2.842	61	4437	0.218	ppbv #	24
34) 2-Butanone	2.564	43	15549	0.536	ppbv	99
35) Carbon Tetrachloride	3.765	117	980	0.036	ppbv #	83
36) Benzene	3.661	78	17329	0.446	ppbv	95
37) 1,2-Dichloroethane	3.221	62	4279	0.209	ppbv	100
39) 1,2-Dichloropropane	3.962	63	105834	7.456	ppbv #	24
41) Tetrahydrofuran	3.069	42	2271	0.136	ppbv #	60
44) 2,2,4-Trimethylpentane	4.645	57	13143	0.196	ppbv #	59
52) Tetrachloroethene	8.234	164	469	0.031	ppbv #	31
53) Toluene	6.940	91	60968	1.325	ppbv	100
58) Ethyl Benzene	9.357	91	14102	0.236	ppbv	99
59) m/p-Xylene	9.535	91	39034	0.830	ppbv #	100
60) o-Xylene	9.969	91	12216	0.260	ppbv	94
61) Styrene	9.872	104	4201	0.189	ppbv	94
69) p-Isopropyltoluene	11.927	119	4561	0.062	ppbv	98
72) 4-Ethyltoluene	11.131	105	3946	0.067	ppbv #	61
73) 1,3,5-Trimethylbenzene	11.206	105	3224	0.067	ppbv	90
74) 1,2,4-Trimethylbenzene	11.539	105	12546	0.238	ppbv #	67
79) Naphthalene	13.517	128	2765	0.059	ppbv #	94
80) Naphthalene,2-methyl-	14.465	142	2846	0.198	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042980.D
Acq On : 23 Sep 2025 04:44
Operator : SY/MD
Sample : Q3132-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
151-1A-2

Quant Time: Sep 24 01:16:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

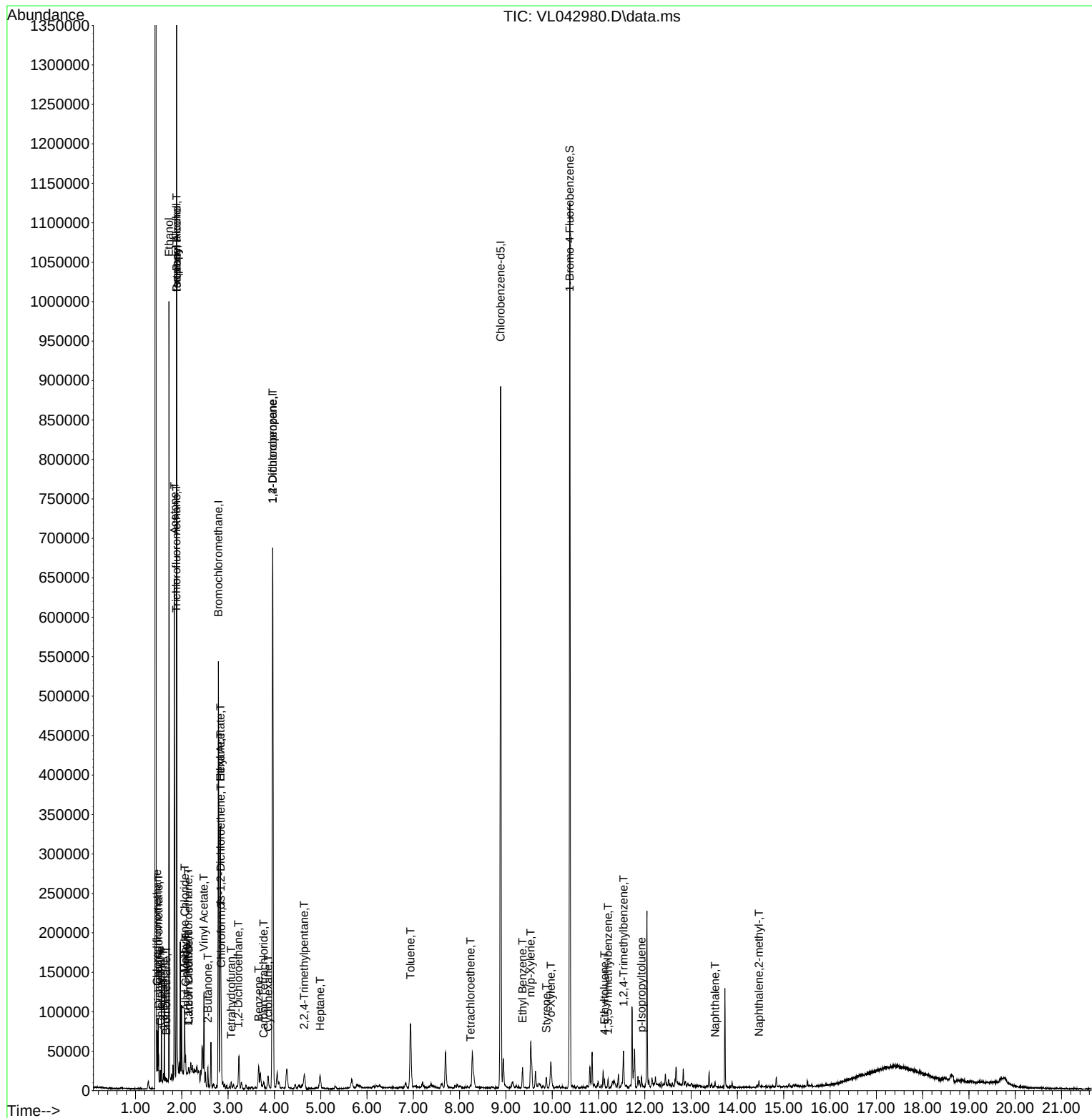
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

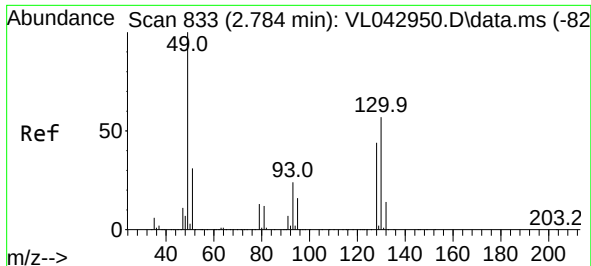
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042980.D
Acq On : 23 Sep 2025 04:44
Operator : SY/MD
Sample : Q3132-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
151-1A-2

Quant Time: Sep 24 01:16:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

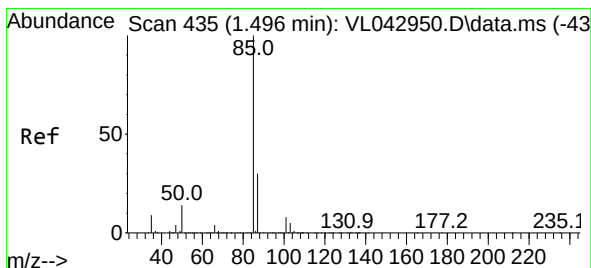
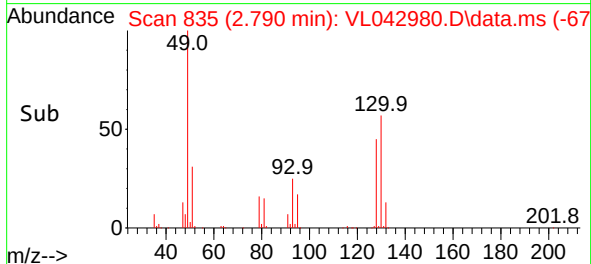
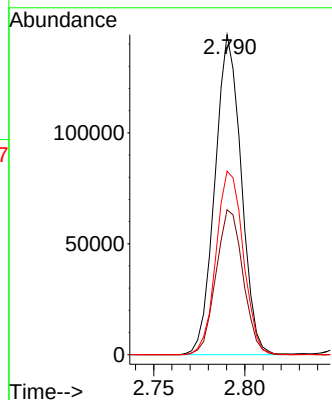
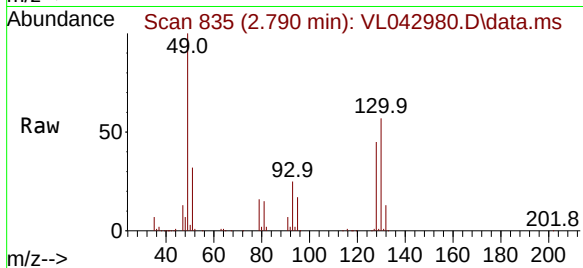




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

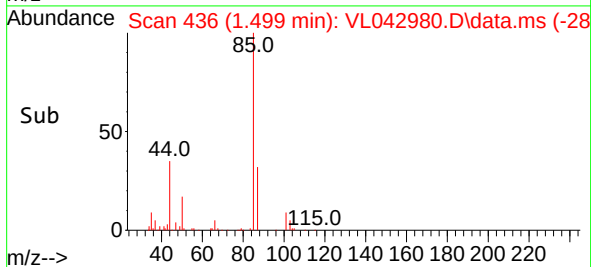
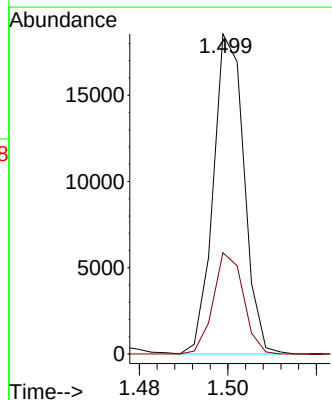
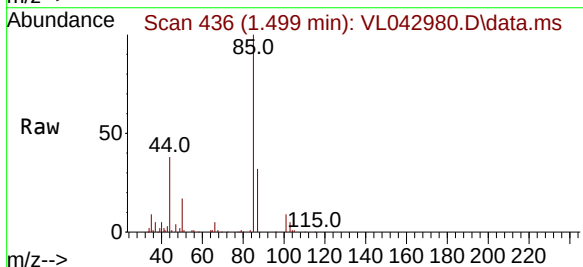
Instrument :
MSVOA_L
ClientSampleId :
151-1A-2

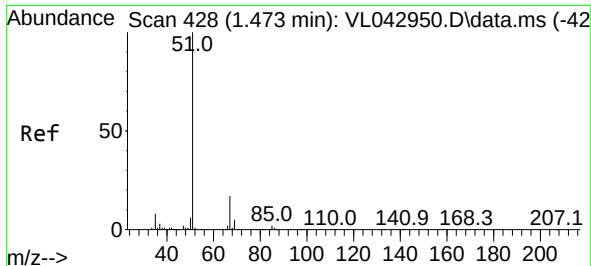
Tgt Ion: 49 Resp: 144544
Ion Ratio Lower Upper
49 100
128 46.6 22.9 68.8
130 59.4 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 0.462 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Tgt Ion: 85 Resp: 8977
Ion Ratio Lower Upper
85 100
87 31.6 24.3 36.5

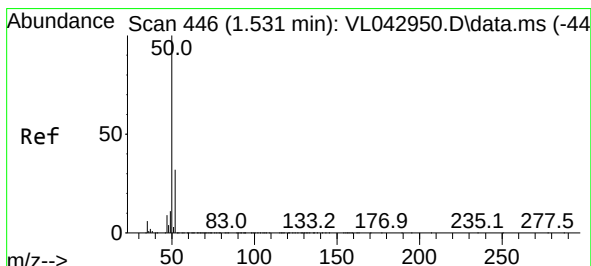
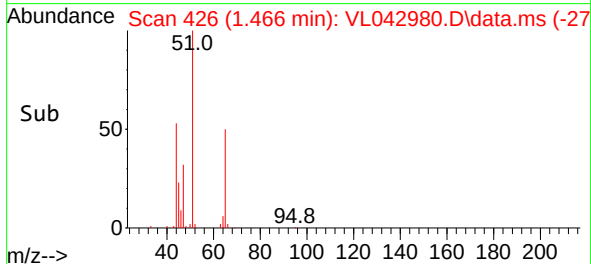
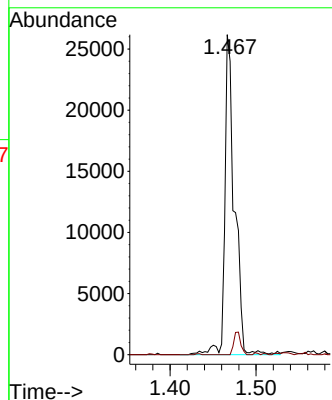
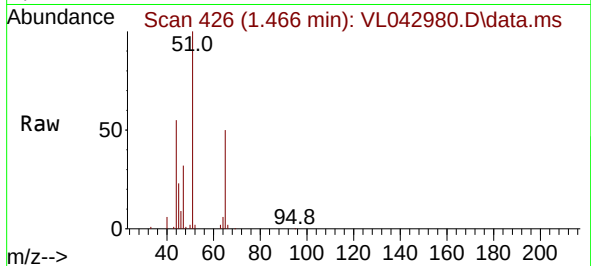




#3
Chlorodifluoromethane
Concen: 0.839 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

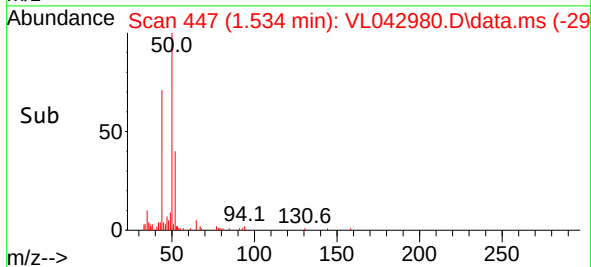
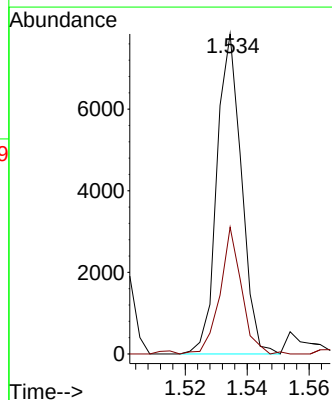
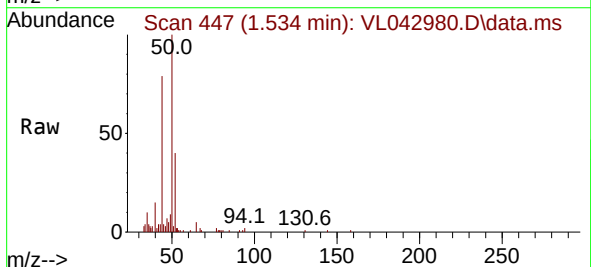
Instrument :
MSVOA_1
ClientSampleId :
151-1A-2

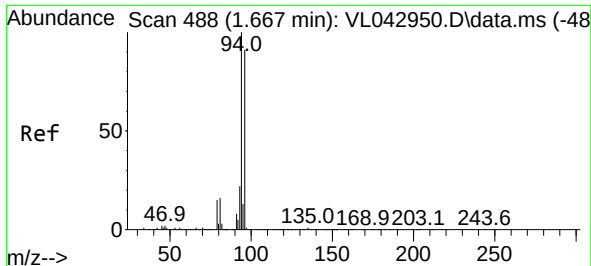
Tgt Ion: 51 Resp: 20341
Ion Ratio Lower Upper
51 100
67 5.5 13.8 20.8#



#4
Chloromethane
Concen: 0.491 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Tgt Ion: 50 Resp: 4319
Ion Ratio Lower Upper
50 100
52 41.4 25.9 38.9#

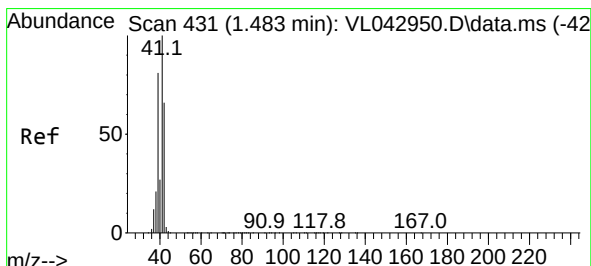
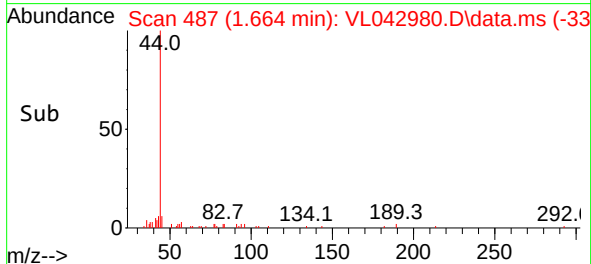
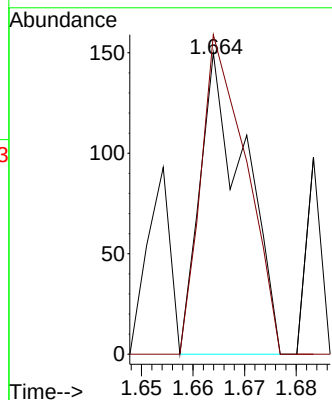
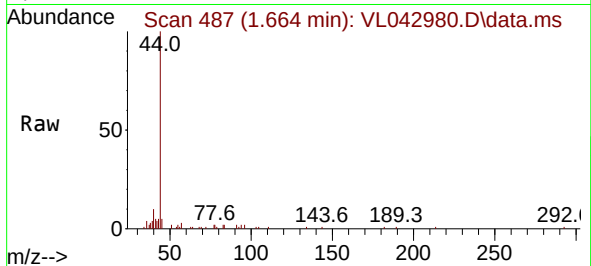




#6
Bromomethane
Concen: 0.032 ppbv
RT: 1.664 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

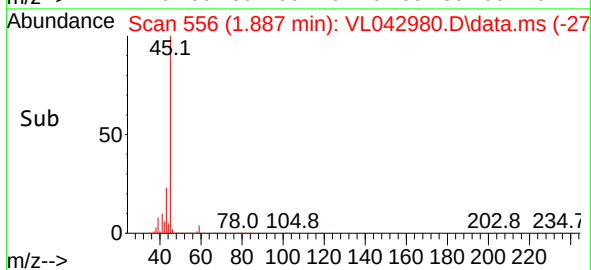
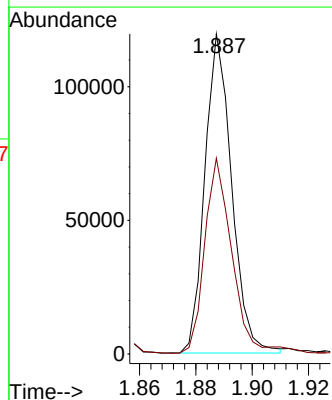
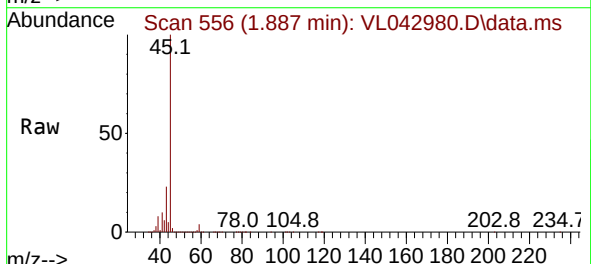
Instrument :
MSVOA_1
ClientSampleId :
151-1A-2

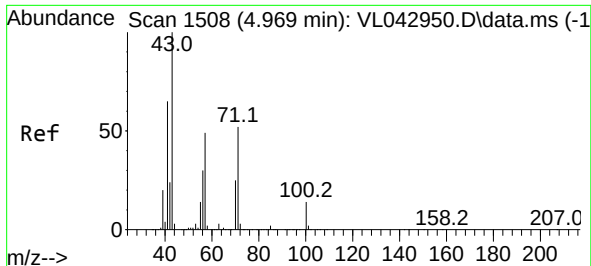
Tgt Ion: 94 Resp: 91
Ion Ratio Lower Upper
94 100
96 106.0 72.6 108.8



#9
Propene
Concen: 7.487 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.405 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Tgt Ion: 41 Resp: 78927
Ion Ratio Lower Upper
41 100
42 61.8 57.4 86.2

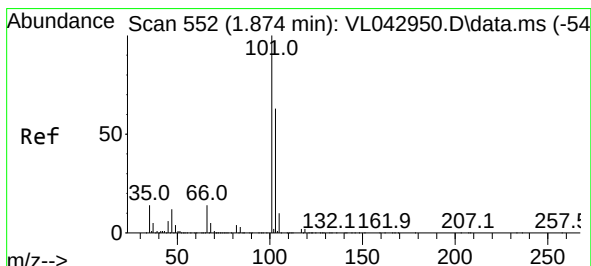
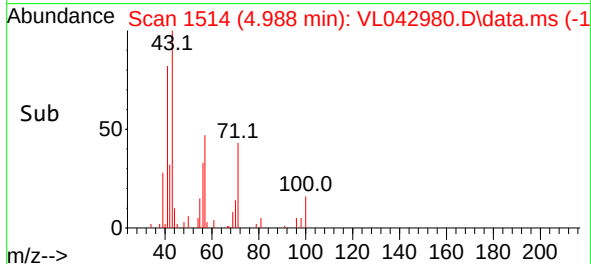
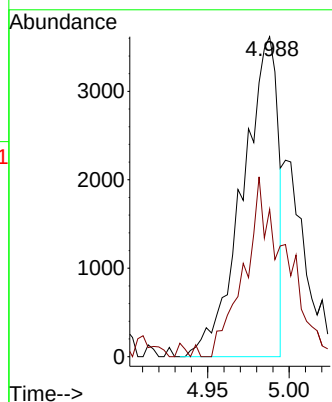
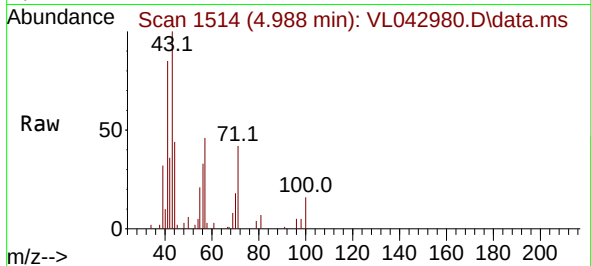




#10
 Heptane
 Concen: 0.194 ppbv
 RT: 4.988 min Scan# 11
 Delta R.T. 0.019 min
 Lab File: VL042980.D
 Acq: 23 Sep 2025 04:44

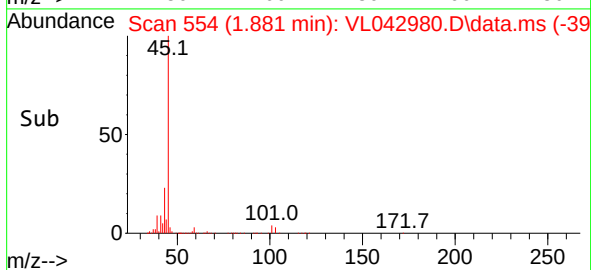
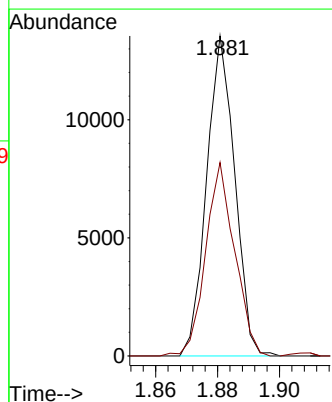
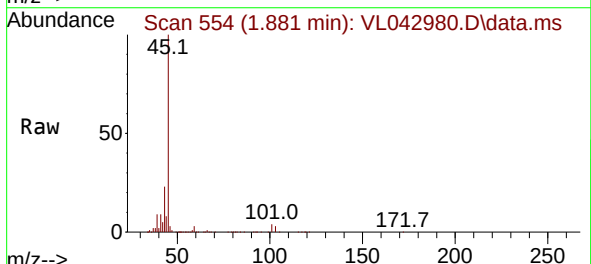
Instrument :
 MSVOA_1
 ClientSampleId :
 151-1A-2

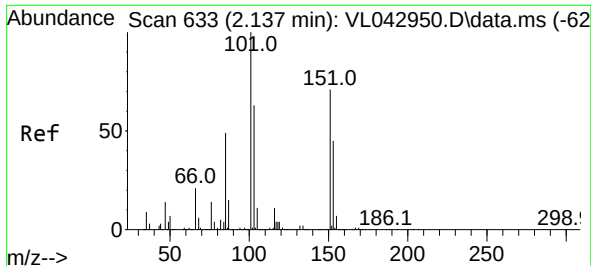
Tgt Ion: 43 Resp: 5470
 Ion Ratio Lower Upper
 43 100
 57 66.3 38.6 57.8#



#11
 Trichlorofluoromethane
 Concen: 0.456 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. 0.006 min
 Lab File: VL042980.D
 Acq: 23 Sep 2025 04:44

Tgt Ion: 101 Resp: 8542
 Ion Ratio Lower Upper
 101 100
 103 60.4 50.1 75.1

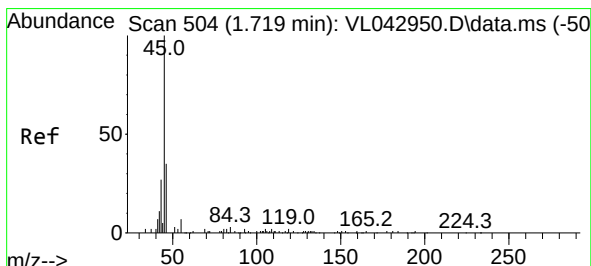
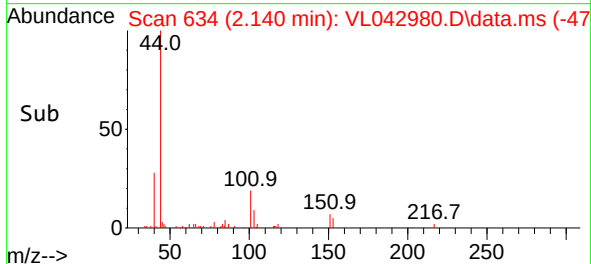
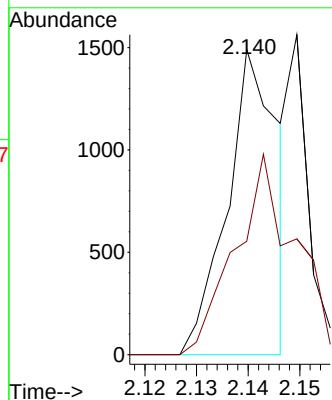
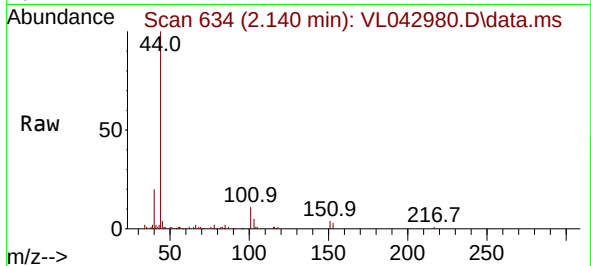




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.066 ppbv
RT: 2.140 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

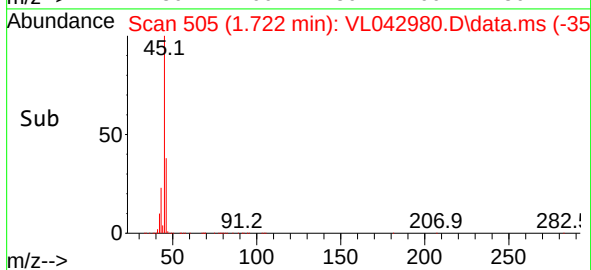
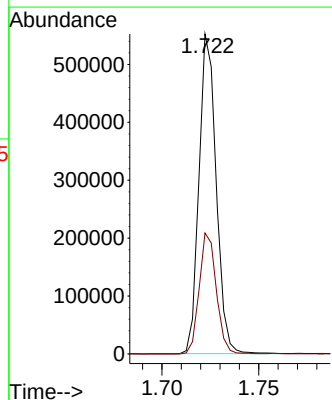
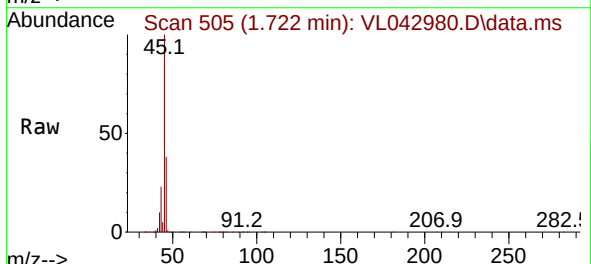
Instrument :
MSVOA_L
ClientSampleId :
151-1A-2

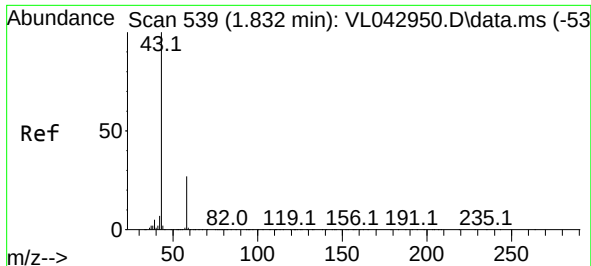
Tgt Ion:101 Resp: 1008
Ion Ratio Lower Upper
101 100
151 76.8 55.7 83.5



#13
Ethanol
Concen: 334.148 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Tgt Ion: 45 Resp: 341697
Ion Ratio Lower Upper
45 100
46 38.0 16.2 64.6

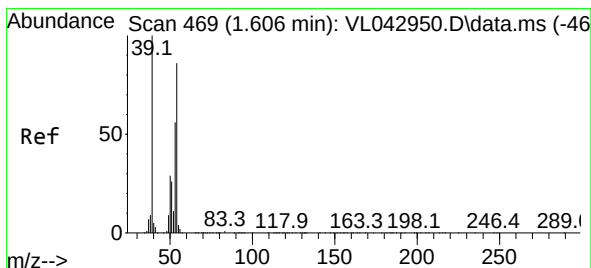
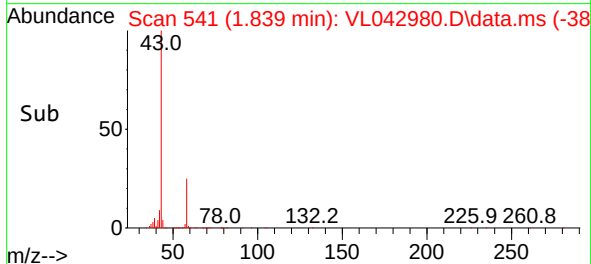
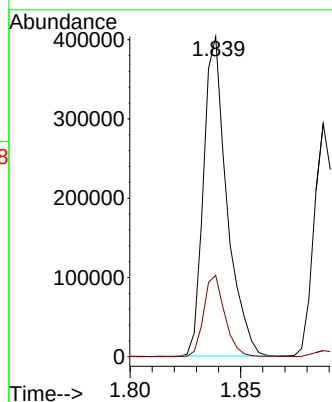
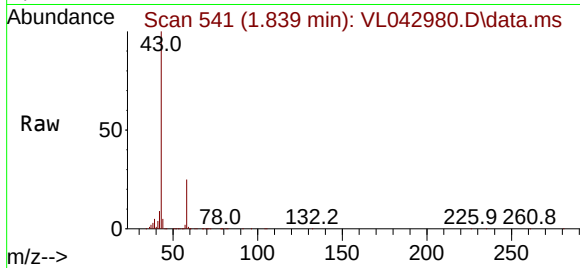




#15
Acetone
Concen: 15.670 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

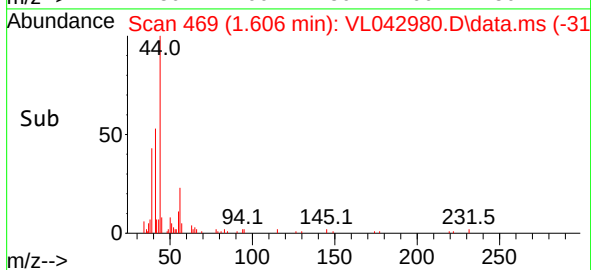
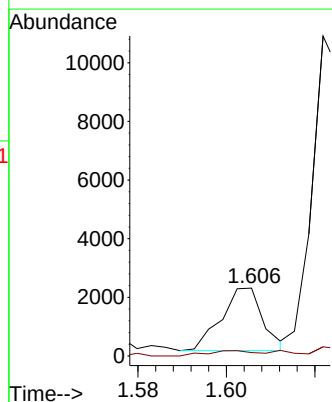
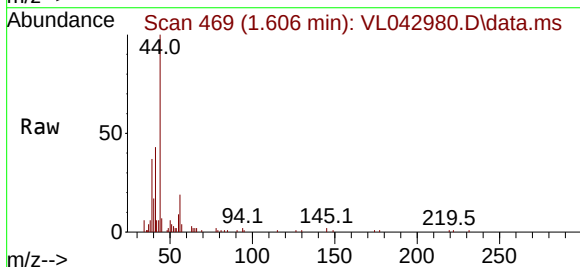
Instrument :
MSVOA_1
ClientSampleId :
151-1A-2

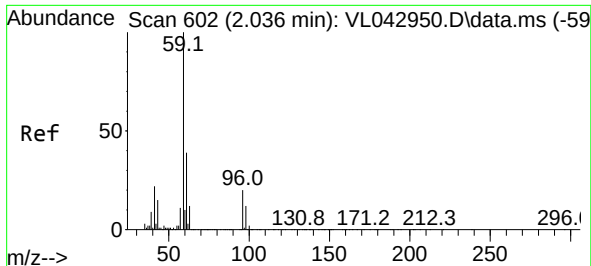
Tgt Ion: 43 Resp: 295004
Ion Ratio Lower Upper
43 100
58 23.1 22.3 33.5



#16
1,3-Butadiene
Concen: 0.157 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Tgt Ion: 39 Resp: 1393
Ion Ratio Lower Upper
39 100
54 0.0 60.8 91.2#

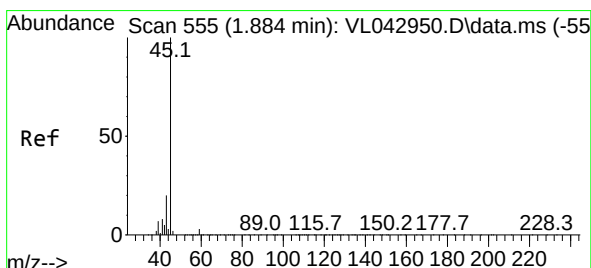
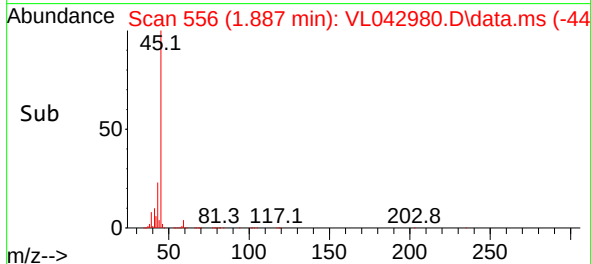
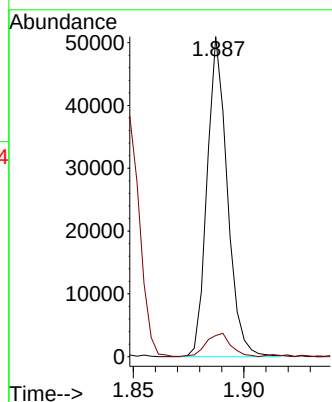
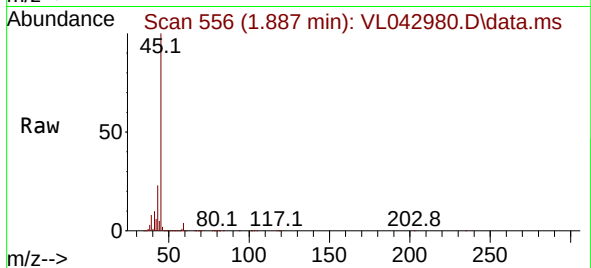




#17
tert-Butyl alcohol
Concen: 1.561 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.149 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

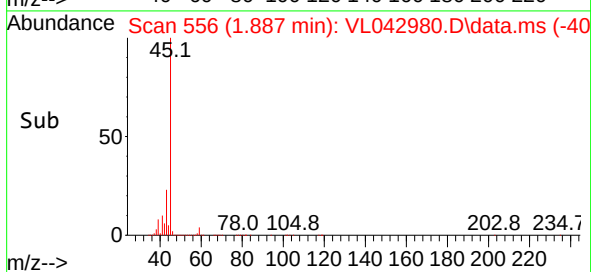
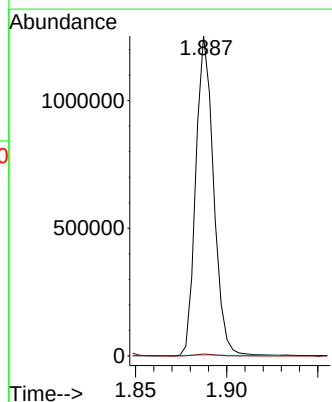
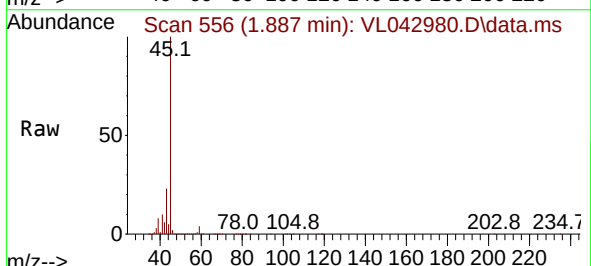
Instrument :
MSVOA_1
ClientSampleId :
151-1A-2

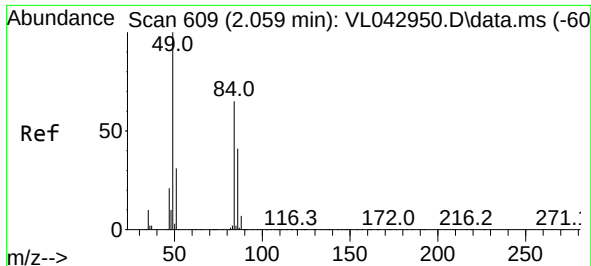
Tgt Ion: 59 Resp: 32235
Ion Ratio Lower Upper
59 100
57 9.6 8.6 12.8



#19
Isopropyl Alcohol
Concen: 74.844 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Tgt Ion: 45 Resp: 847050
Ion Ratio Lower Upper
45 100
58 0.8 31.0 46.6#





#20

Methylene Chloride

Concen: 0.656 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Instrument :

MSVOA_L

ClientSampleId :

151-1A-2

Tgt Ion: 84 Resp: 7194

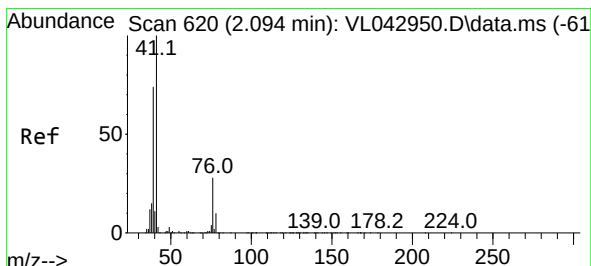
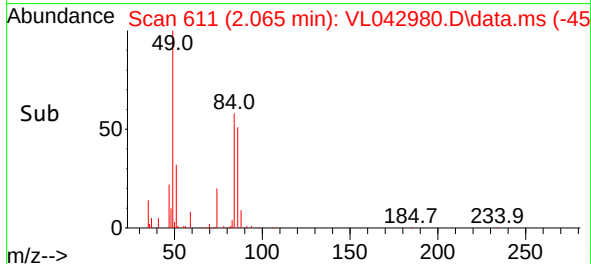
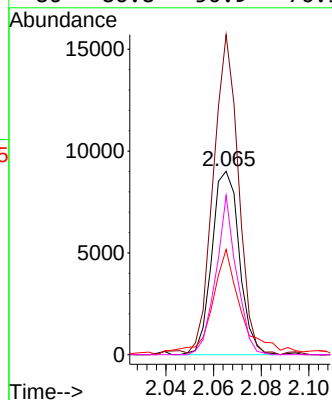
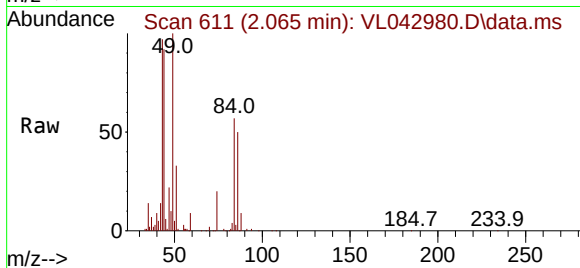
Ion Ratio Lower Upper

84 100

49 174.5 124.1 186.1

51 55.0 39.8 59.8

86 86.8 50.9 76.3#



#21

Allyl Chloride

Concen: 0.153 ppbv

RT: 2.081 min Scan# 616

Delta R.T. -0.013 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

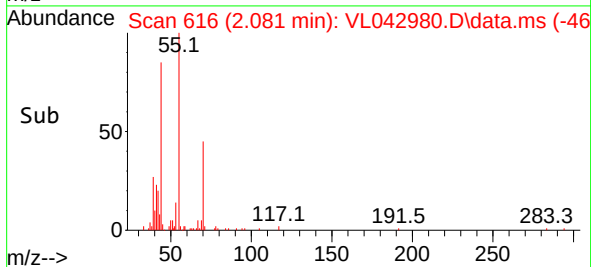
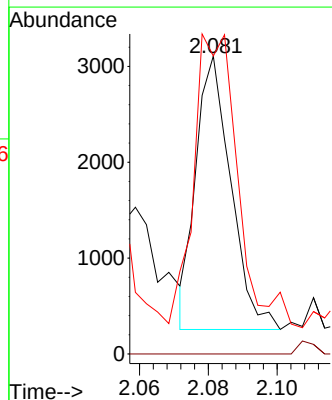
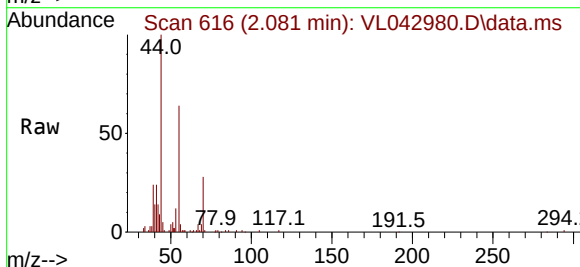
Tgt Ion: 41 Resp: 2009

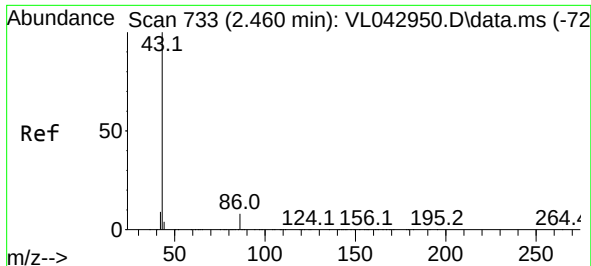
Ion Ratio Lower Upper

41 100

76 0.0 22.3 33.5#

39 208.7 61.3 91.9#

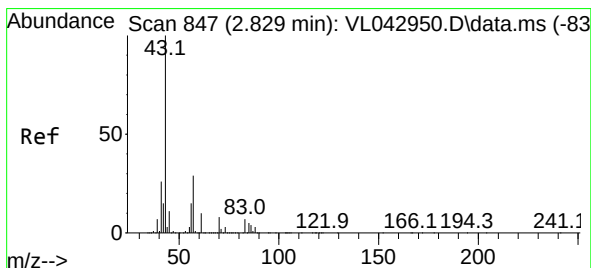
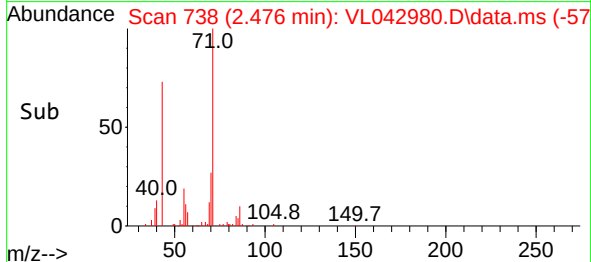
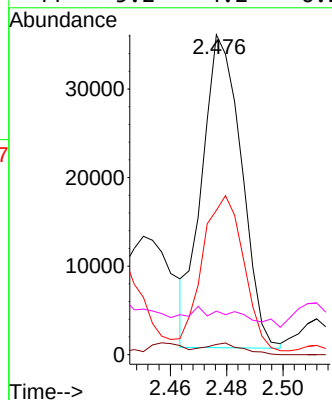
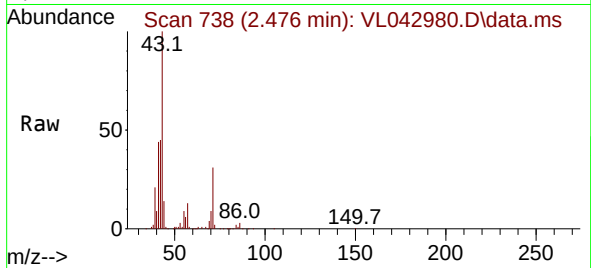




#23
 Vinyl Acetate
 Concen: 1.279 ppbv
 RT: 2.476 min Scan# 71
 Delta R.T. 0.016 min
 Lab File: VL042980.D
 Acq: 23 Sep 2025 04:44

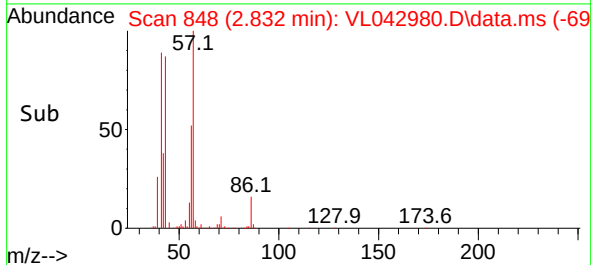
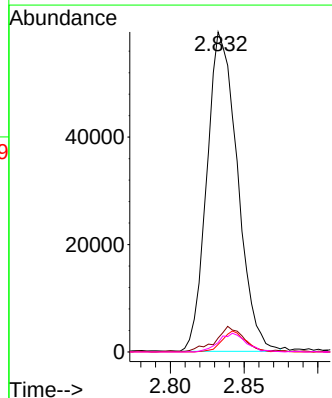
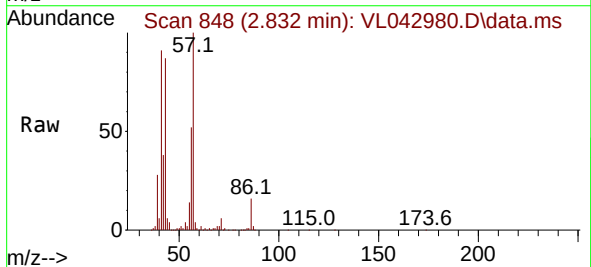
Instrument :
 MSVOA_1
 ClientSampleId :
 151-1A-2

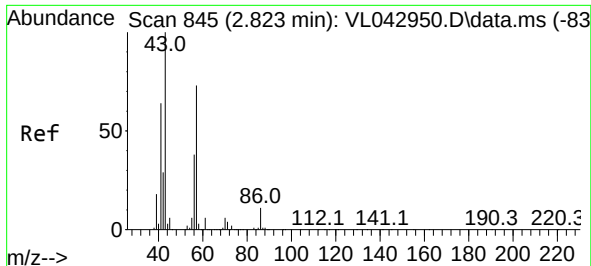
Tgt Ion:	43	Resp:	34411
Ion	Ratio	Lower	Upper
43	100		
86	3.3	6.2	9.2#
42	45.4	7.4	11.0#
44	5.2	4.2	6.2



#25
 Ethyl Acetate
 Concen: 1.803 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. 0.003 min
 Lab File: VL042980.D
 Acq: 23 Sep 2025 04:44

Tgt Ion:	43	Resp:	85787
Ion	Ratio	Lower	Upper
43	100		
45	7.9	7.7	11.5
61	5.3	7.1	10.7#
70	5.4	6.7	10.1#

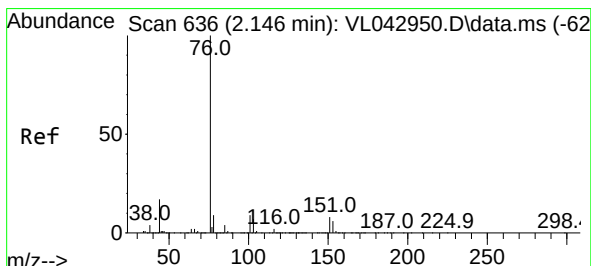
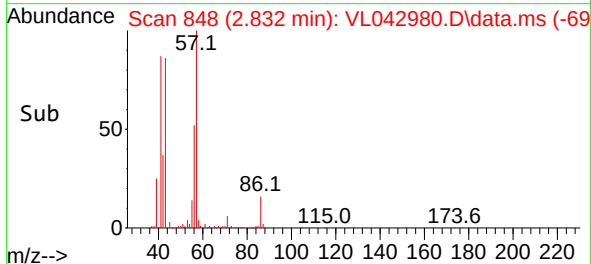
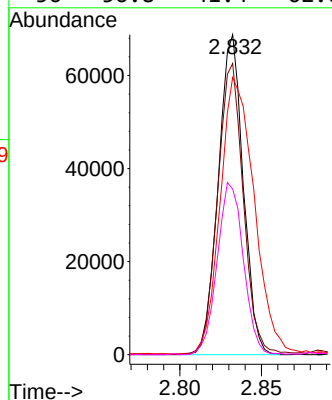
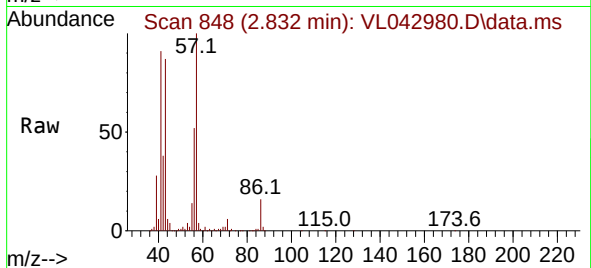




#26
Hexane
Concen: 3.367 ppbv
RT: 2.832 min Scan# 845
Delta R.T. 0.010 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

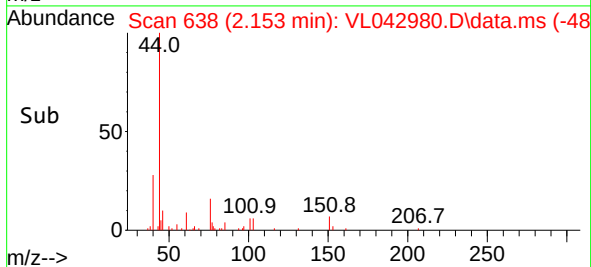
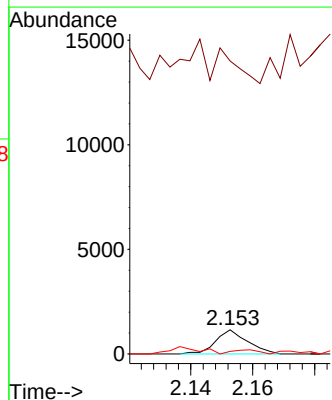
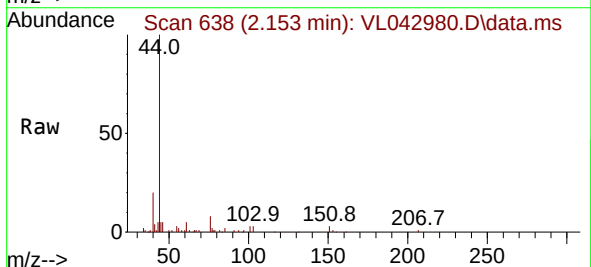
Instrument :
MSVOA_L
ClientSampleId :
151-1A-2

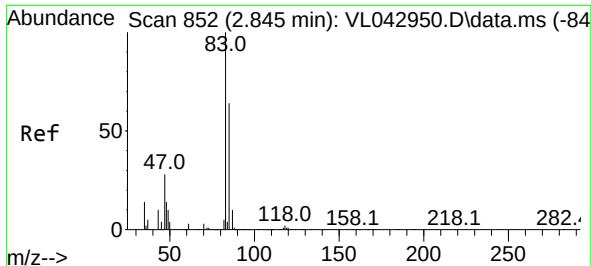
Tgt Ion: 57 Resp: 73023
Ion Ratio Lower Upper
57 100
41 93.6 71.7 107.5
43 118.1 180.8 271.2#
56 56.8 41.4 62.0



#27
Carbon Disulfide
Concen: 0.042 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.006 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Tgt Ion: 76 Resp: 820
Ion Ratio Lower Upper
76 100
44 0.0 15.6 23.4#
78 42.6 8.9 13.3#

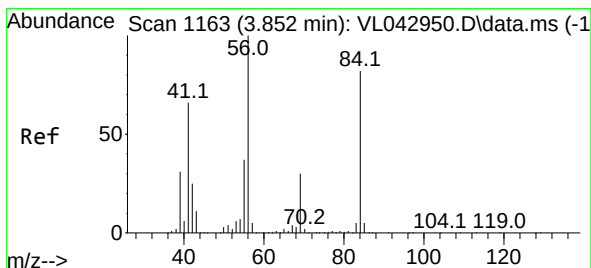
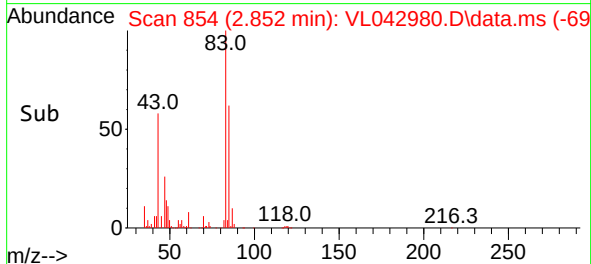
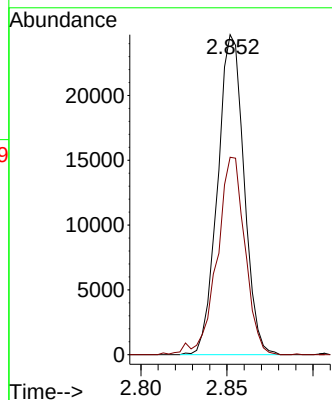
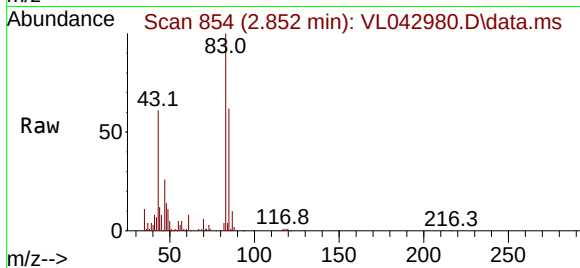




#29
Chloroform
Concen: 0.929 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

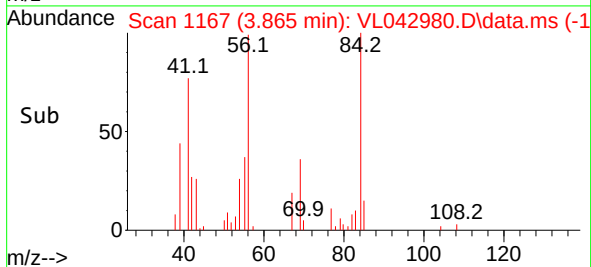
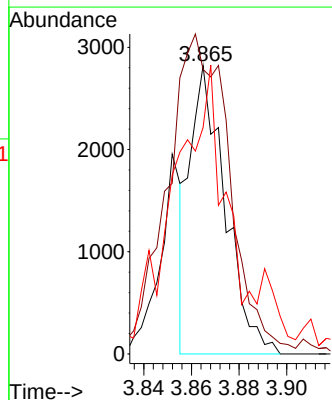
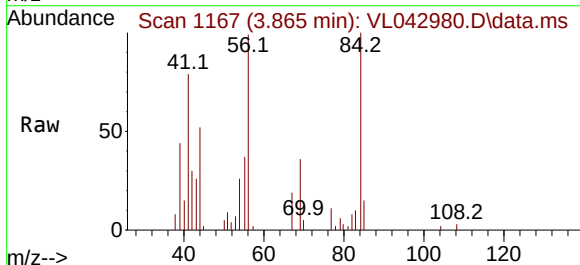
Instrument :
MSVOA_1
ClientSampleId :
151-1A-2

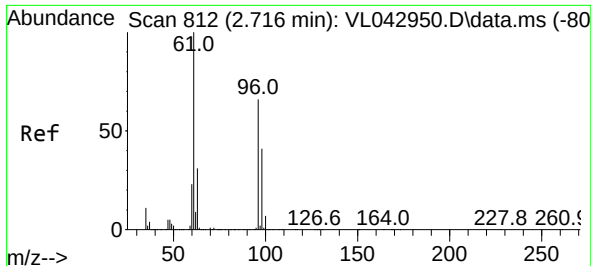
Tgt Ion: 83 Resp: 26341
Ion Ratio Lower Upper
83 100
85 61.7 51.2 76.8



#30
Cyclohexane
Concen: 0.159 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.013 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Tgt Ion: 84 Resp: 2892
Ion Ratio Lower Upper
84 100
56 188.7 102.2 153.4#
41 167.9 65.6 98.4#

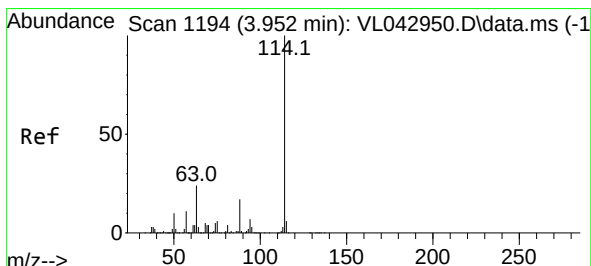
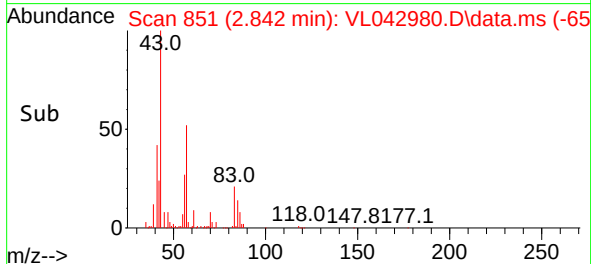
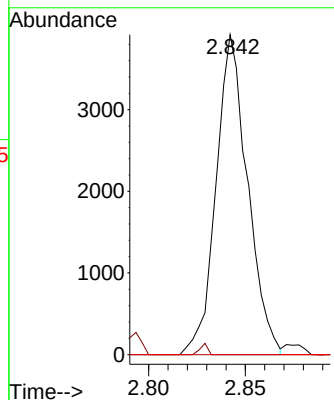
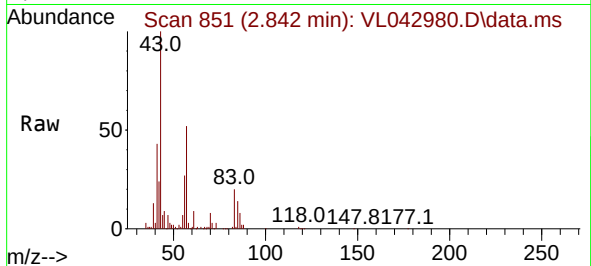




#31
 cis-1,2-Dichloroethene
 Concen: 0.218 ppbv
 RT: 2.842 min Scan# 81
 Delta R.T. 0.126 min
 Lab File: VL042980.D
 Acq: 23 Sep 2025 04:44

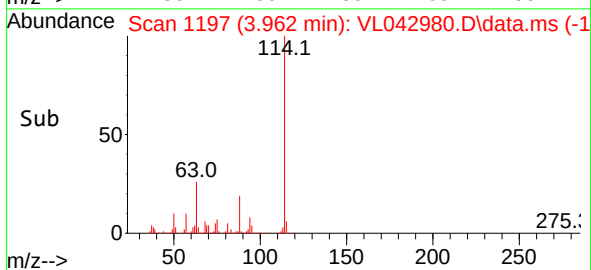
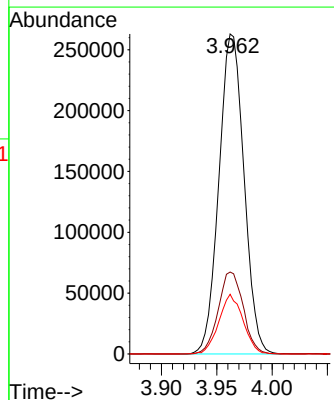
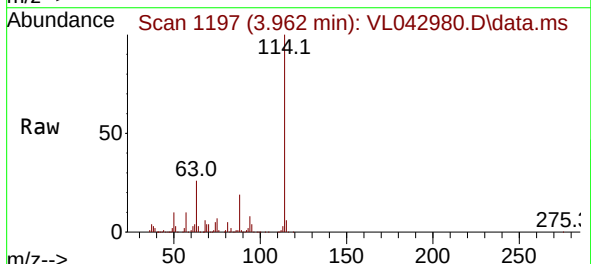
Instrument :
 MSVOA_1
 ClientSampleId :
 151-1A-2

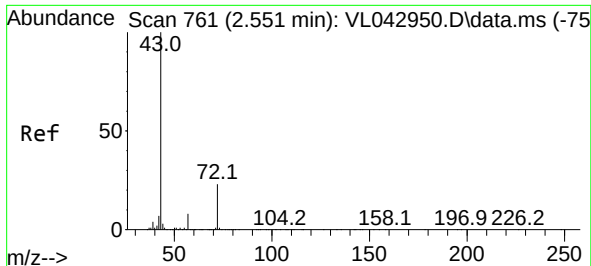
Tgt Ion: 61 Resp: 4437
 Ion Ratio Lower Upper
 61 100
 96 0.0 53.0 79.6#
 98 0.0 32.9 49.3#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. 0.010 min
 Lab File: VL042980.D
 Acq: 23 Sep 2025 04:44

Tgt Ion: 114 Resp: 414049
 Ion Ratio Lower Upper
 114 100
 63 25.6 19.4 29.2
 88 18.0 14.2 21.2

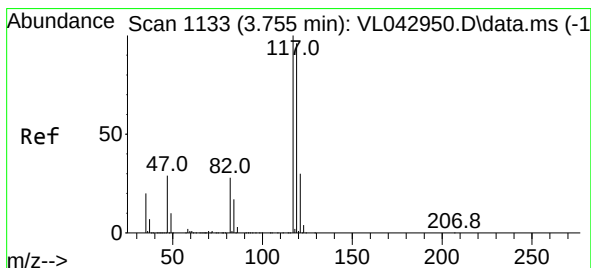
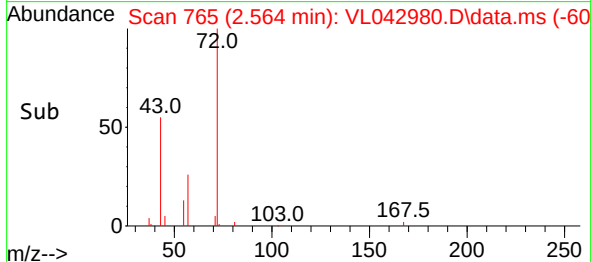
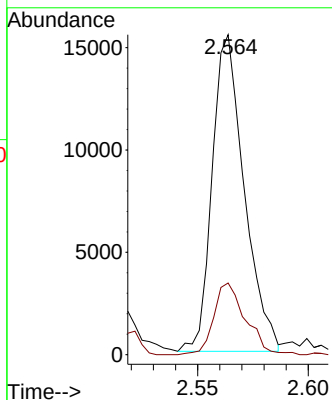
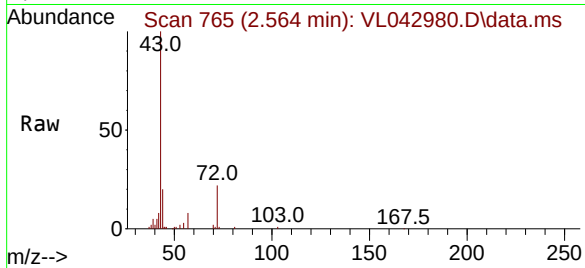




#34
2-Butanone
Concen: 0.536 ppbv
RT: 2.564 min Scan# 761
Delta R.T. 0.013 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

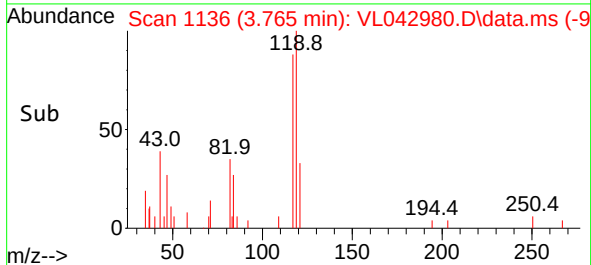
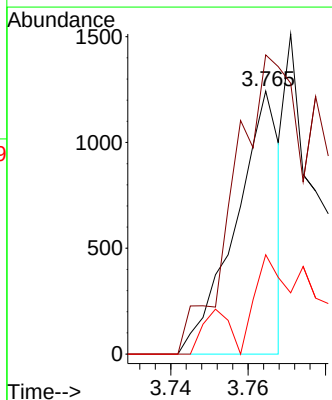
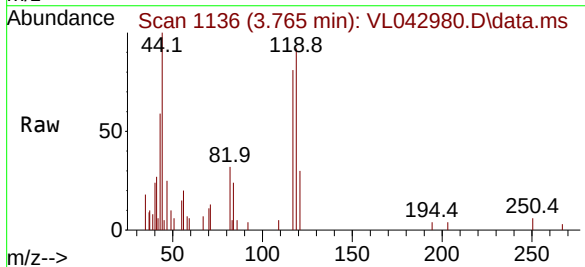
Instrument :
MSVOA_L
ClientSampleId :
151-1A-2

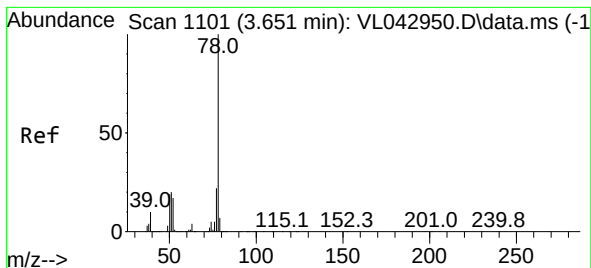
Tgt Ion: 43 Resp: 15549
Ion Ratio Lower Upper
43 100
72 22.7 17.7 26.5



#35
Carbon Tetrachloride
Concen: 0.036 ppbv
RT: 3.765 min Scan# 1136
Delta R.T. 0.010 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Tgt Ion: 117 Resp: 980
Ion Ratio Lower Upper
117 100
119 113.8 76.9 115.3
121 37.7 23.7 35.5#





#36

Benzene

Concen: 0.446 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. 0.010 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Instrument :

MSVOA_L

ClientSampleId :

151-1A-2

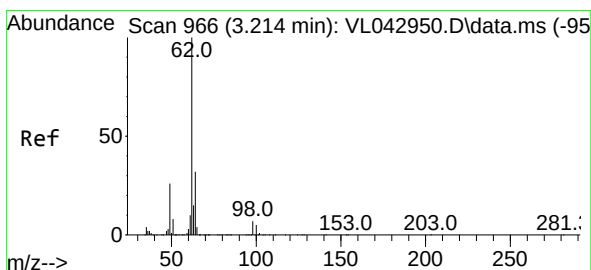
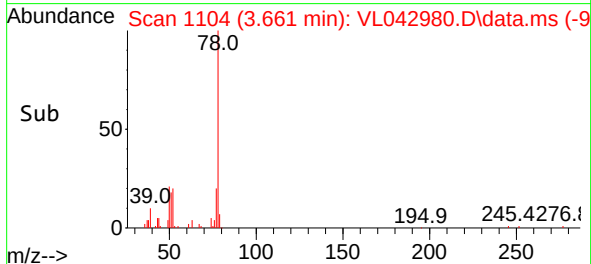
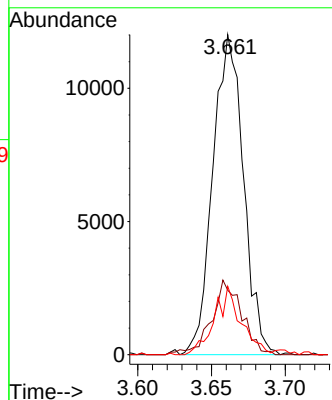
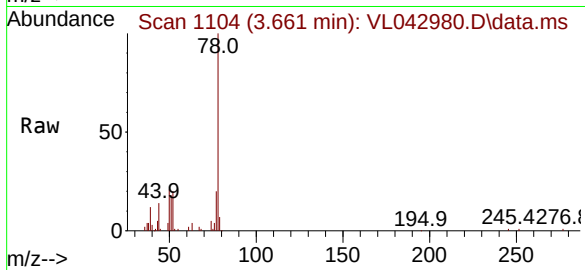
Tgt Ion: 78 Resp: 17329

Ion Ratio Lower Upper

78 100

77 20.2 17.8 26.6

50 21.4 15.0 22.4



#37

1,2-Dichloroethane

Concen: 0.209 ppbv

RT: 3.221 min Scan# 968

Delta R.T. 0.006 min

Lab File: VL042980.D

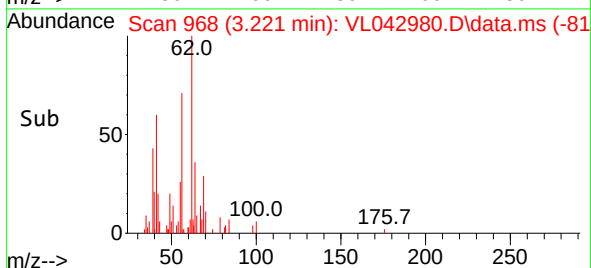
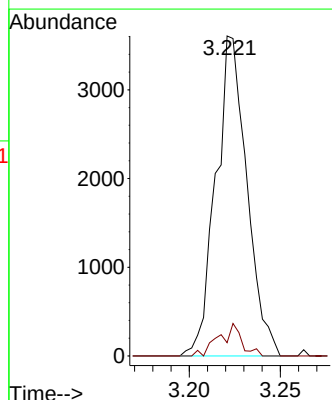
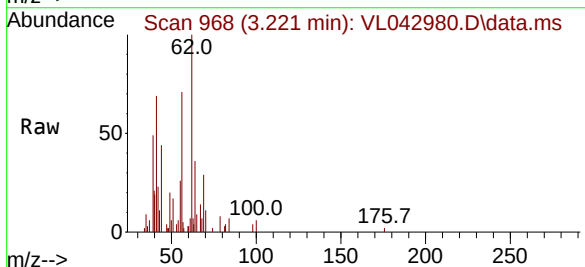
Acq: 23 Sep 2025 04:44

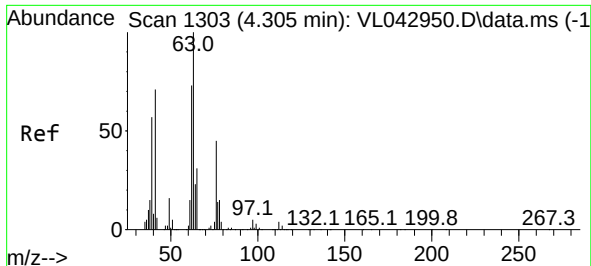
Tgt Ion: 62 Resp: 4279

Ion Ratio Lower Upper

62 100

98 7.4 5.9 8.9





#39

1,2-Dichloropropane

Concen: 7.456 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.343 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Instrument :

MSVOA_1

ClientSampleId :

151-1A-2

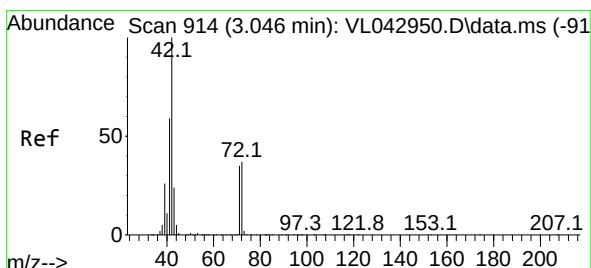
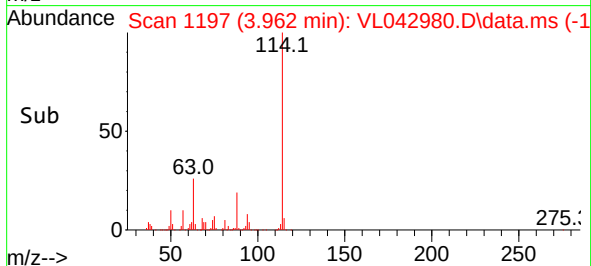
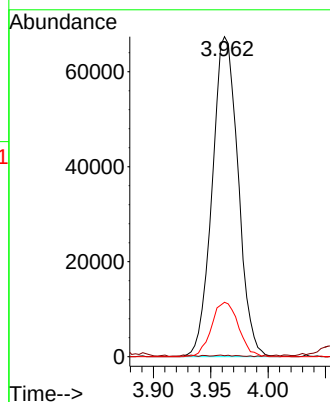
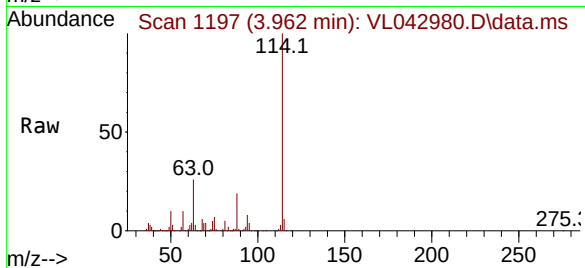
Tgt Ion: 63 Resp: 105834

Ion Ratio Lower Upper

63 100

41 0.1 57.5 86.3#

62 17.0 58.5 87.7#



#41

Tetrahydrofuran

Concen: 0.136 ppbv

RT: 3.069 min Scan# 921

Delta R.T. 0.023 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

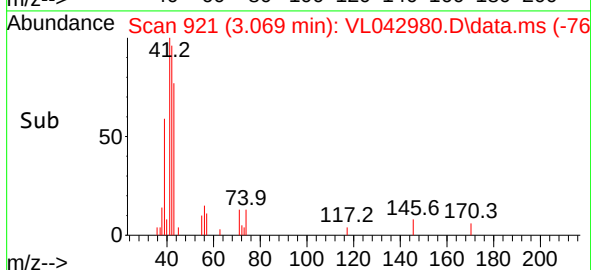
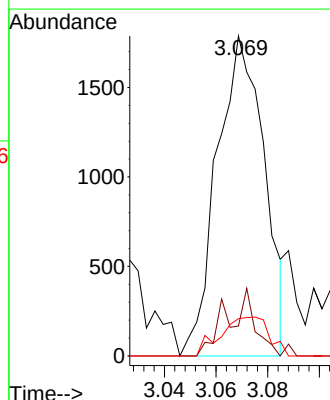
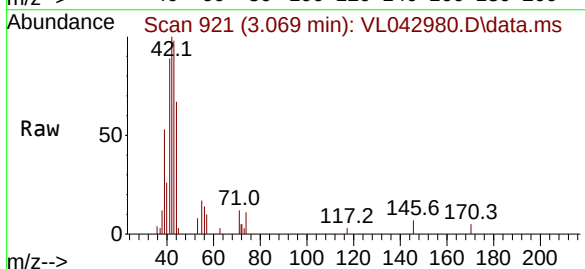
Tgt Ion: 42 Resp: 2271

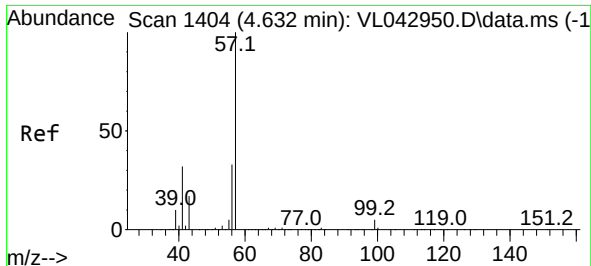
Ion Ratio Lower Upper

42 100

72 13.1 30.0 45.0#

71 12.4 28.8 43.2#

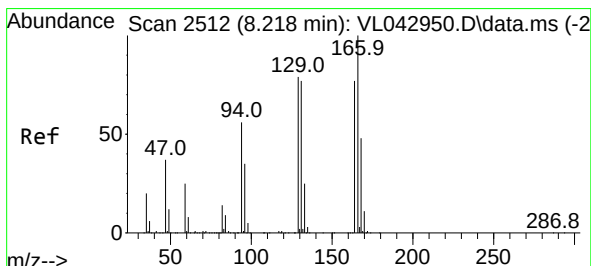
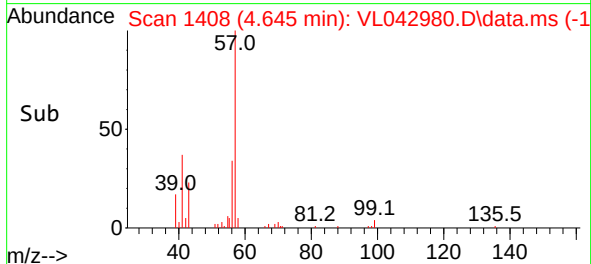
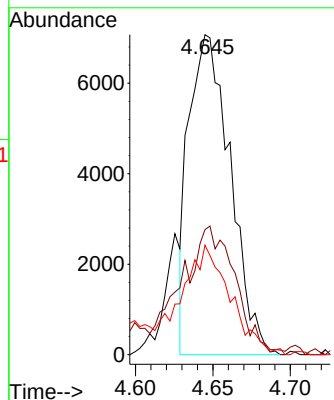
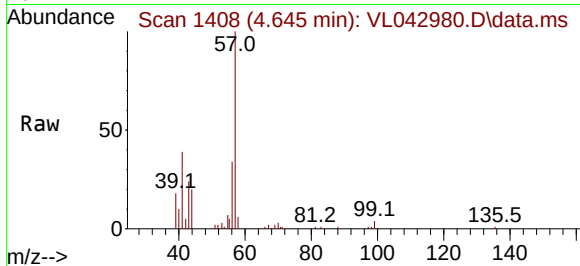




#44
 2,2,4-Trimethylpentane
 Concen: 0.196 ppbv
 RT: 4.645 min Scan# 1404
 Delta R.T. 0.013 min
 Lab File: VL042980.D
 Acq: 23 Sep 2025 04:44

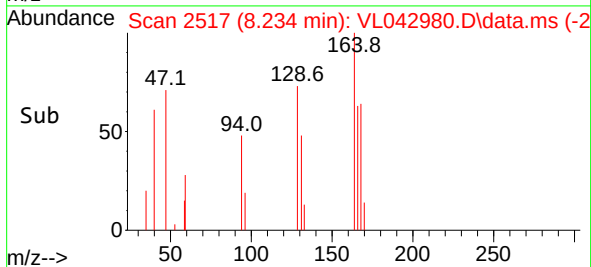
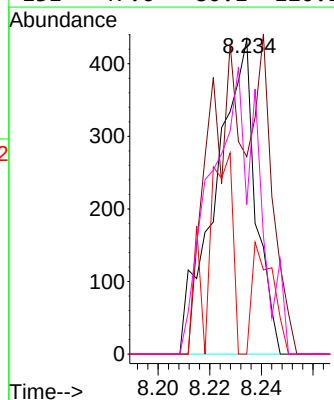
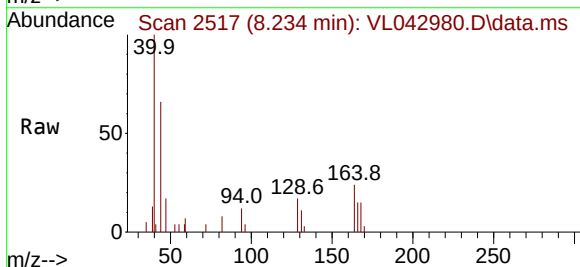
Instrument :
 MSVOA_1
 ClientSampleId :
 151-1A-2

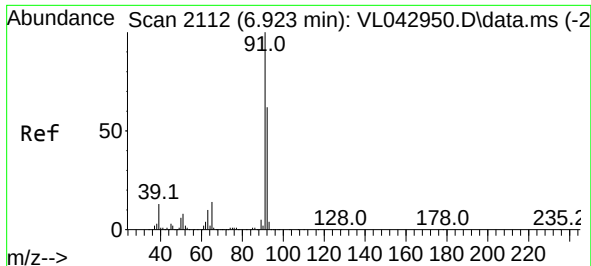
Tgt Ion: 57 Resp: 13143
 Ion Ratio Lower Upper
 57 100
 41 59.4 25.5 38.3#
 56 50.4 25.8 38.8#



#52
 Tetrachloroethene
 Concen: 0.031 ppbv
 RT: 8.234 min Scan# 2517
 Delta R.T. 0.016 min
 Lab File: VL042980.D
 Acq: 23 Sep 2025 04:44

Tgt Ion: 164 Resp: 469
 Ion Ratio Lower Upper
 164 100
 166 62.8 103.5 155.3#
 129 0.0 82.2 123.4#
 131 47.6 80.1 120.1#

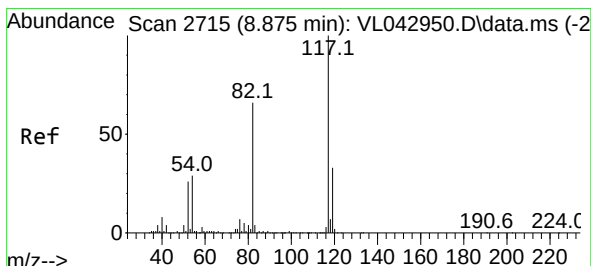
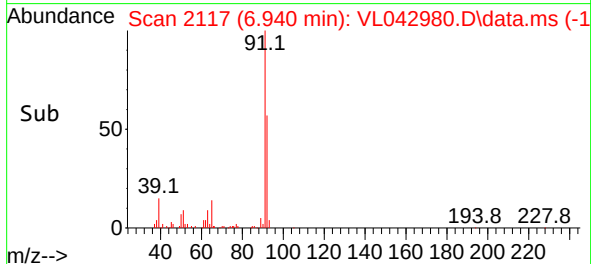
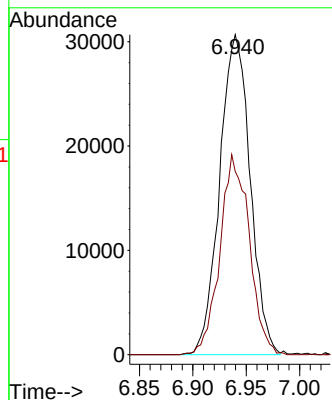
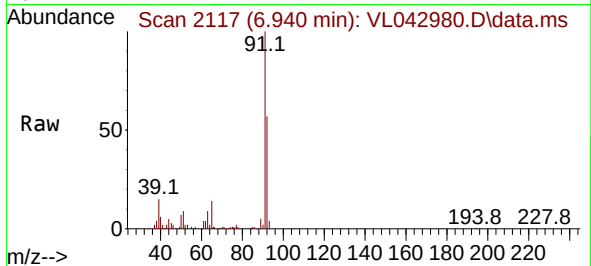




#53
Toluene
Concen: 1.325 ppbv
RT: 6.940 min Scan# 2112
Delta R.T. 0.016 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

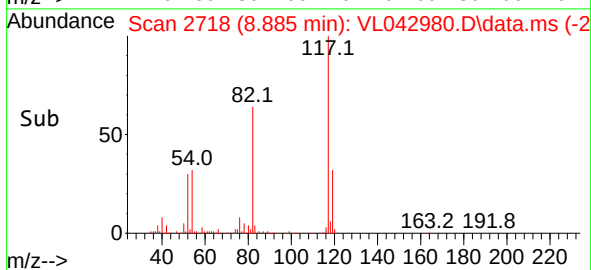
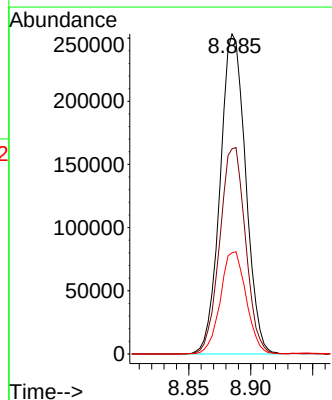
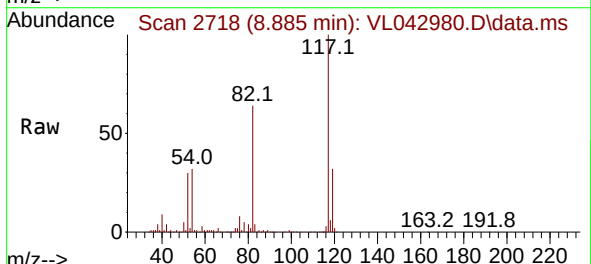
Instrument :
MSVOA_1
ClientSampleId :
151-1A-2

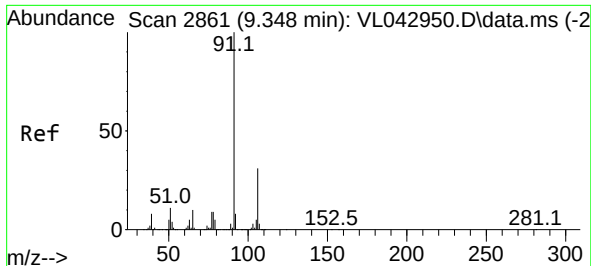
Tgt Ion: 91 Resp: 60968
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.010 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Tgt Ion: 117 Resp: 363422
Ion Ratio Lower Upper
117 100
82 65.3 52.8 79.2
119 32.3 26.5 39.7





#58

Ethyl Benzene

Concen: 0.236 ppbv

RT: 9.357 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Instrument :

MSVOA_1

ClientSampleId :

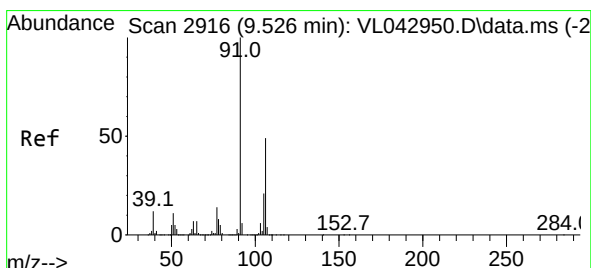
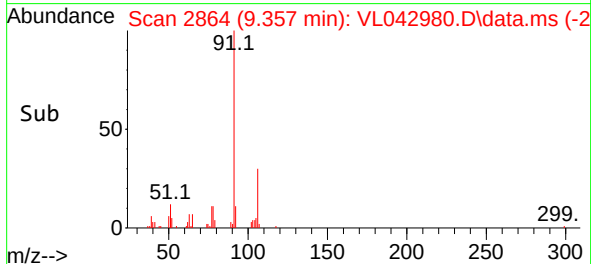
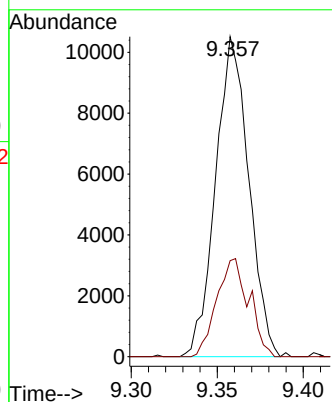
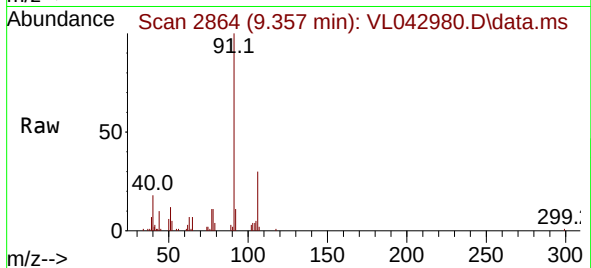
151-1A-2

Tgt Ion: 91 Resp: 14102

Ion Ratio Lower Upper

91 100

106 30.0 24.6 37.0



#59

m/p-Xylene

Concen: 0.830 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. 0.010 min

Lab File: VL042980.D

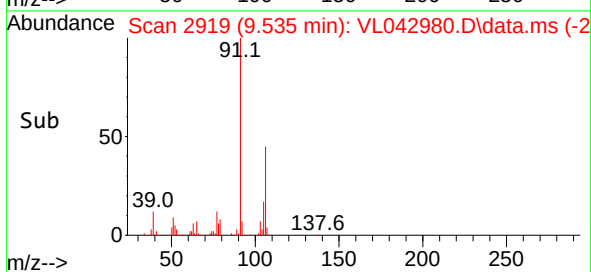
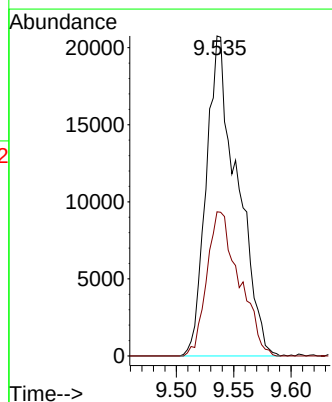
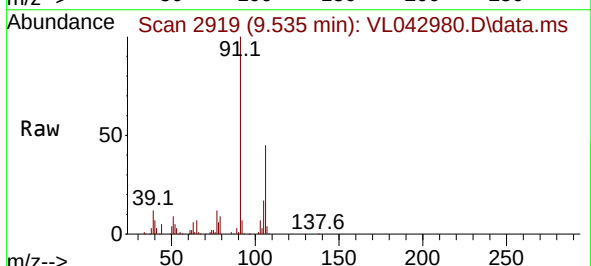
Acq: 23 Sep 2025 04:44

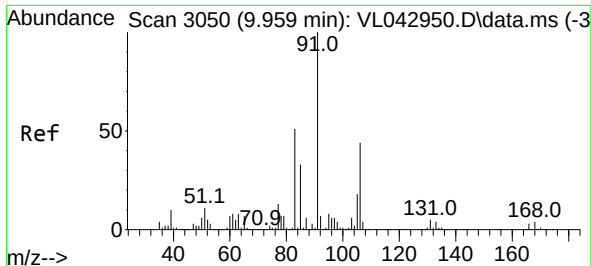
Tgt Ion: 91 Resp: 39034

Ion Ratio Lower Upper

91 100

106 47.1 0.0 0.0#

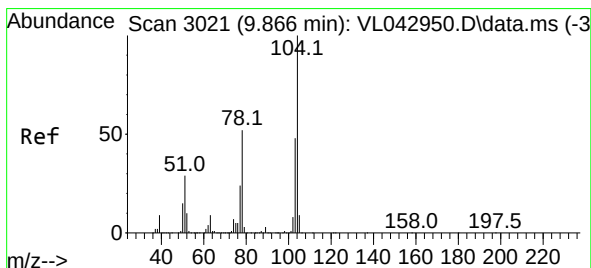
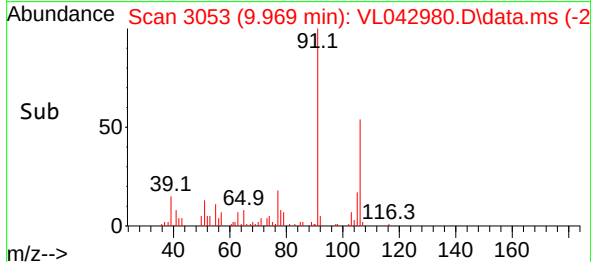
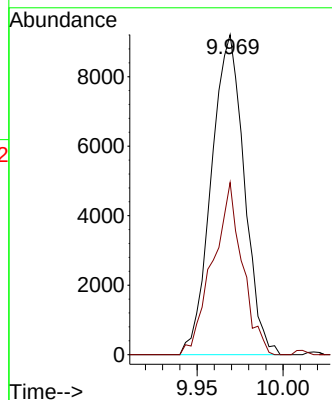
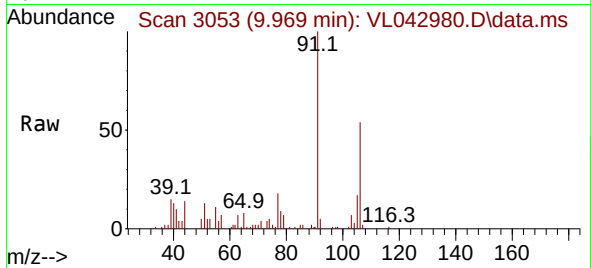




#60
o-Xylene
Concen: 0.260 ppbv
RT: 9.969 min Scan# 3050
Delta R.T. 0.010 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

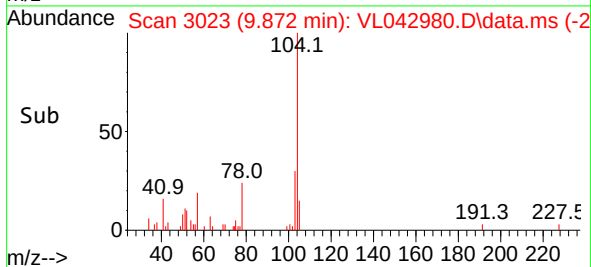
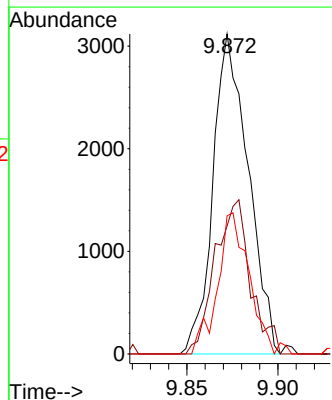
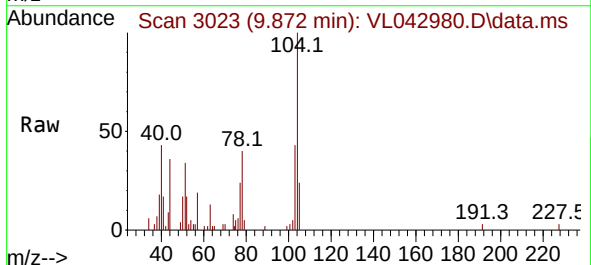
Instrument :
MSVOA_1
ClientSampleId :
151-1A-2

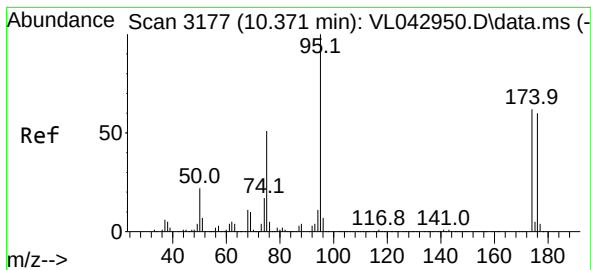
Tgt Ion: 91 Resp: 12216
Ion Ratio Lower Upper
91 100
106 48.7 22.4 67.0



#61
Styrene
Concen: 0.189 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.006 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Tgt Ion: 104 Resp: 4201
Ion Ratio Lower Upper
104 100
78 48.3 39.9 59.9
103 39.9 36.9 55.3

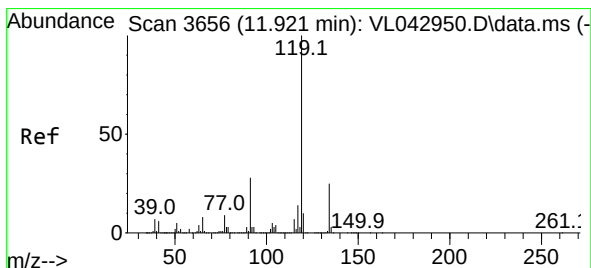
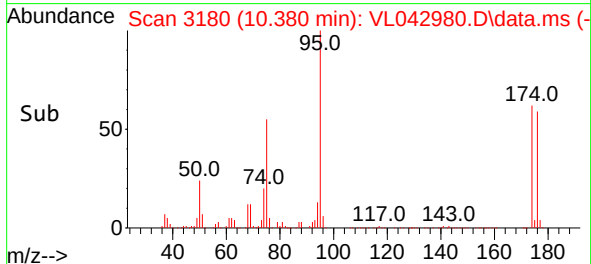
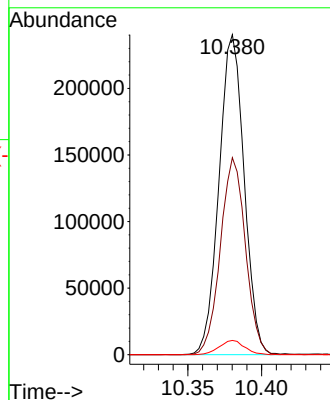
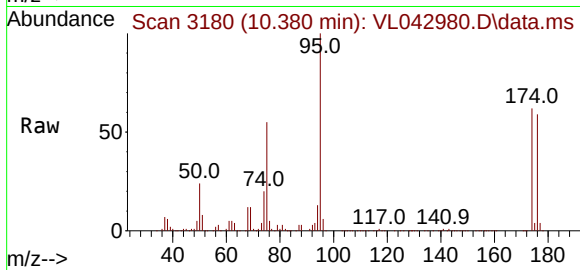




#68
1-Bromo-4-Fluorobenzene
Concen: 10.489 ppbv
RT: 10.380 min Scan# 3177
Delta R.T. 0.010 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

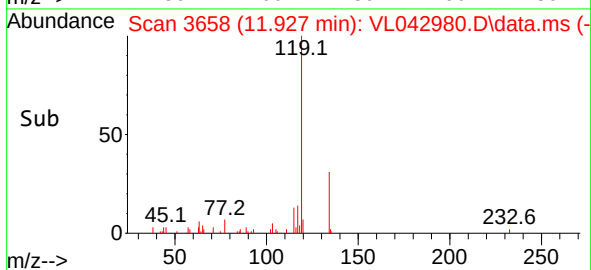
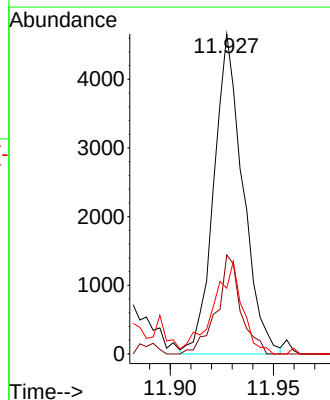
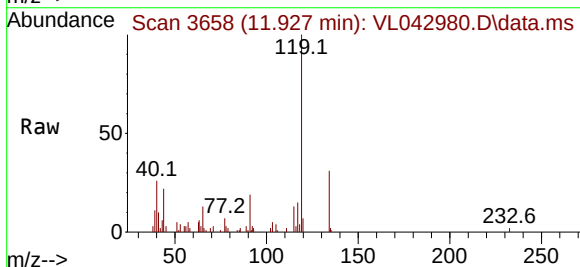
Instrument :
MSVOA_1
ClientSampleId :
151-1A-2

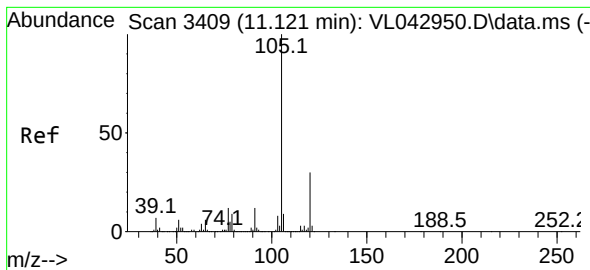
Tgt Ion: 95 Resp: 284547
Ion Ratio Lower Upper
95 100
174 61.6 51.4 77.2
175 4.5 4.0 6.0



#69
p-Isopropyltoluene
Concen: 0.062 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.006 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Tgt Ion: 119 Resp: 4561
Ion Ratio Lower Upper
119 100
134 27.8 21.0 31.4
91 28.6 22.3 33.5





#72

4-Ethyltoluene

Concen: 0.067 ppbv

RT: 11.131 min Scan# 3409

Delta R.T. 0.010 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Instrument :

MSVOA_1

ClientSampleId :

151-1A-2

Tgt Ion:105 Resp: 3946

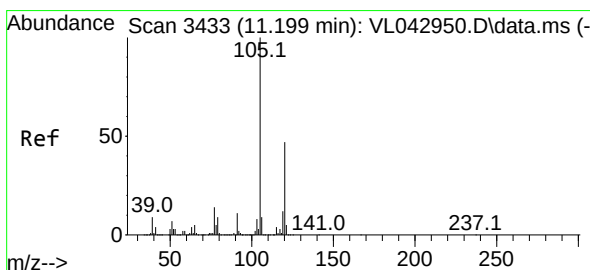
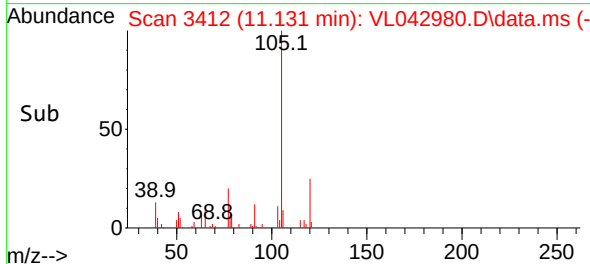
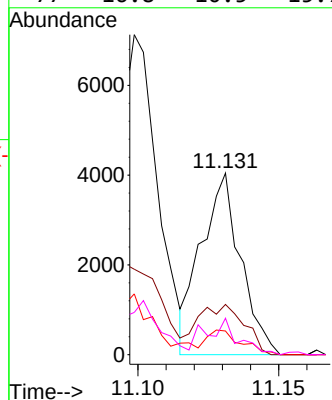
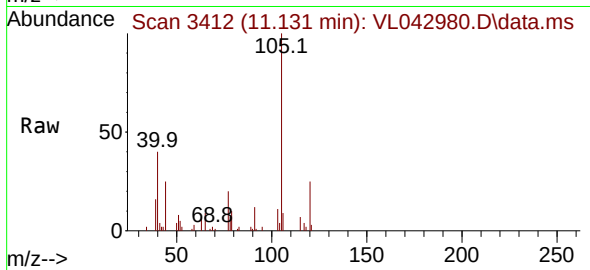
Ion Ratio Lower Upper

105 100

120 0.0 24.2 36.2#

91 0.0 10.0 15.0#

77 16.8 10.5 15.7#



#73

1,3,5-Trimethylbenzene

Concen: 0.067 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.006 min

Lab File: VL042980.D

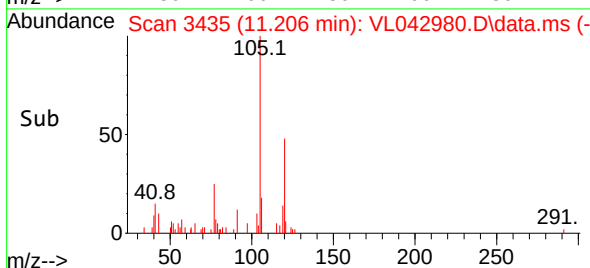
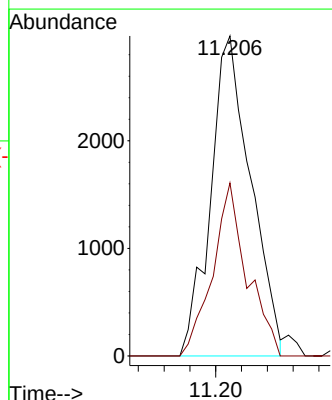
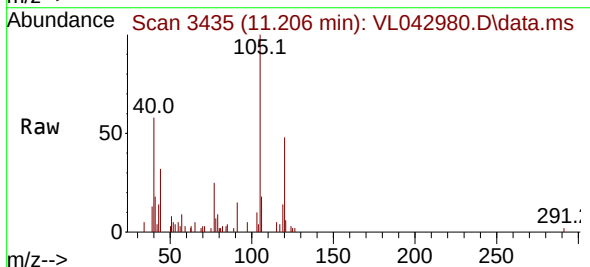
Acq: 23 Sep 2025 04:44

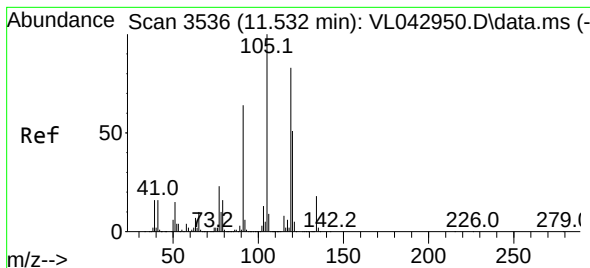
Tgt Ion:105 Resp: 3224

Ion Ratio Lower Upper

105 100

120 54.1 38.0 57.0





#74

1,2,4-Trimethylbenzene

Concen: 0.238 ppbv

RT: 11.539 min Scan# 3536

Delta R.T. 0.006 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

Instrument :

MSVOA_1

ClientSampleId :

151-1A-2

Tgt Ion:105 Resp: 12546

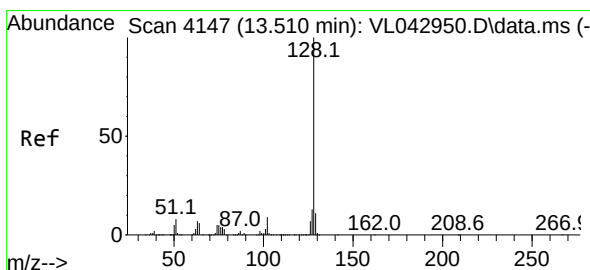
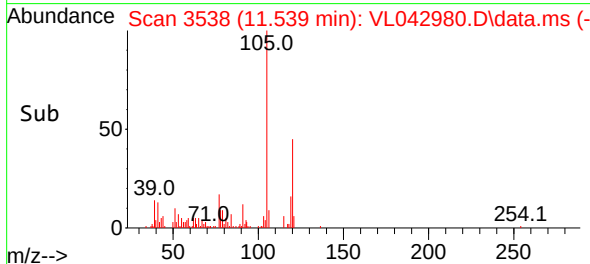
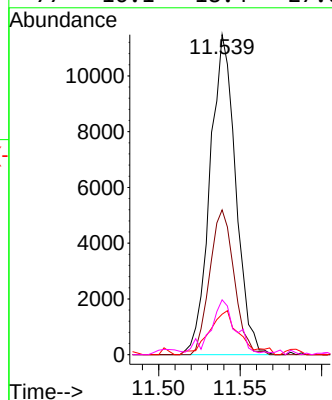
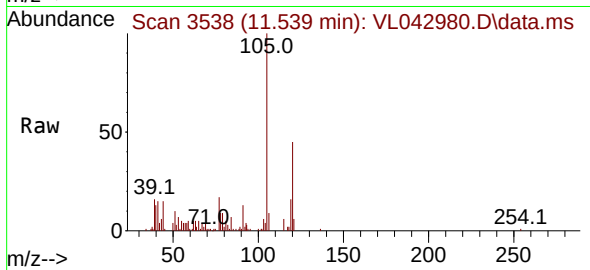
Ion Ratio Lower Upper

105 100

120 50.9 40.9 61.3

91 12.7 51.2 76.8#

77 16.1 18.4 27.6#



#79

Naphthalene

Concen: 0.059 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.006 min

Lab File: VL042980.D

Acq: 23 Sep 2025 04:44

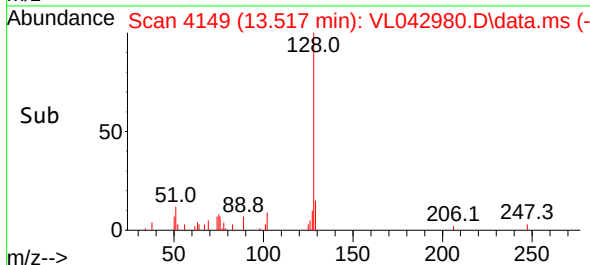
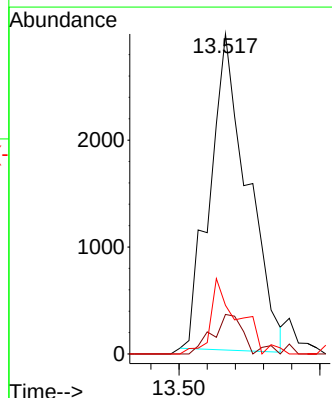
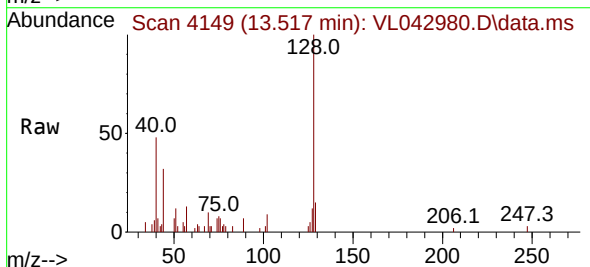
Tgt Ion:128 Resp: 2765

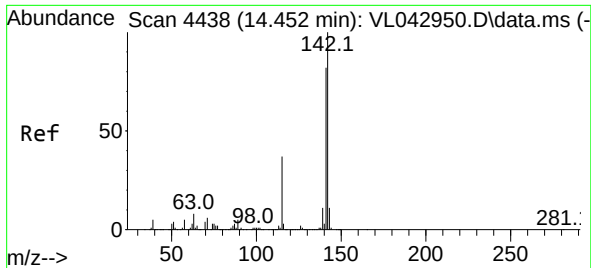
Ion Ratio Lower Upper

128 100

127 12.6 10.6 15.8

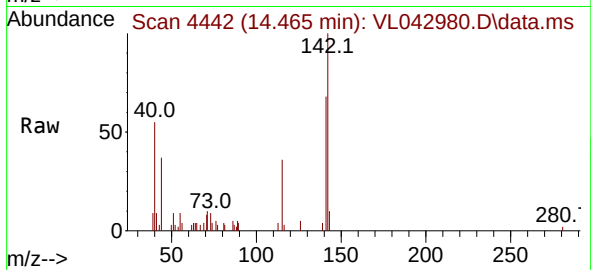
129 15.5 9.0 13.6#





#80
Naphthalene, 2-methyl-
Concen: 0.198 ppbv
RT: 14.465 min Scan# 44
Delta R.T. 0.013 min
Lab File: VL042980.D
Acq: 23 Sep 2025 04:44

Instrument :
MSVOA_L
ClientSampleId :
151-1A-2



Tgt Ion:	142	Resp:	2846
Ion	Ratio	Lower	Upper
142	100		
141	90.3	65.1	97.7
115	41.7	28.9	43.3

