



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

Cover Page

Order ID : Q2727

Project ID : NJ AIR PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number

Q2727-01

Client Sample Number

AE073-1100

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: 8/25/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



SHIPPING DOCUMENTS



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Customer #	C307001
Date	7/28/2025
Page	1 of 1

Packing Slip

Bill To:

Alliance Technical Group LLC - Newark
255 Grant Street Southeast
Suite 600
Decatur, AL, USA 35601

Ship To:

Alliance Technical Group - Newark
284 Sheffield St
Mountainside, NJ, USA 07092-2319

Sohil Jodhani

Email Address: sohil@chemtech.net

(908) 728-3152

Order Comments:

Received by: SJ

7/30/2025 10:00



1736155

Cust Svc Rep		Payment Terms	Shipping Method	Purchase Order #		Order #	
		NET 30	FEDEX ECON	PO2-2492		00205877	
QTY	CAT #	Product		Type	Lot #		Study #
1	1000	Volatiles in Gas Cylinder		PT	E073-1100		AE 073
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121263

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

CASE NARRATIVE

Alliance Technical Group, LLC - Newark

Project Name: NJ AIR PT

Project # N/A

Order ID # Q2727

Test Name: VOCMS Group3

A. Number of Samples and Date of Receipt:

1 Air sample was received on 07/30/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group3. This data package contains results for VOCMS Group3.

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 VOCMS Group3 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 {VL0731ABSD01} with File ID: VL042794.D met criteria except for Propene[28%] due to difference in results of BS and BSD.

The Blank Spike for {VL0731ABS01} with File ID: VL042790.D met requirements for all compounds except for Benzyl Chloride[134%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike Duplicate for {VL0731ABSD01} with File ID: VL042794.D met requirements for all compounds except for Benzyl Chloride[136%] is failing high but no positive hit in associate sample therefore no corrective action taken.

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

The %RSD is greater than 30% in the Initial Calibration method (VL072325AIR.M) for Ethanol, Naphthalene, and 1,2,4-Trichlorobenzene these compounds are passing on Linear Regression.

The Continuous Calibration File ID VL042788.D met the requirements except for Benzyl Chloride is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Samples AE073-1100, AE073-1100DL were diluted due to high concentrations.

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.

The Manual Integrations are performed for the followings.

Manual Integration Report			
Sequence	VL072325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042747.D	m/p-Xylene	SAM	7/24/2025 9:02:56 AM	MMDado da	7/24/2025 2:20:57 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042748.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042748.D	1,4-Dioxane	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042748.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly

VSTDICCO02	VL042748.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042748.D	Cyclohexane	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042748.D	Heptane	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042748.D	m/p-Xylene	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042748.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042748.D	trans-1,2-Dichloroethene	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	1,4-Dioxane	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly

VSTDICCO01	VL042749.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	Bromodichloromethane	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	Ethanol	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	Heptane	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	m/p-Xylene	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	Methyl Methacrylate	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly

VSTDICCO 01	VL04274 9.D	t-1,3- Dichloropropene	SAM	7/24/20 25 9:03:21 AM	MMDado da	7/24/20 25 2:21:02 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04275 0.D	1,1,2- Trichloroethane	SAM	7/24/20 25 9:03:31 AM	MMDado da	7/24/20 25 2:21:04 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04275 0.D	1,2- Dibromoethane	SAM	7/24/20 25 9:03:31 AM	MMDado da	7/24/20 25 2:21:04 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04275 0.D	1,4-Dioxane	SAM	7/24/20 25 9:03:31 AM	MMDado da	7/24/20 25 2:21:04 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04275 0.D	2-Hexanone	SAM	7/24/20 25 9:03:31 AM	MMDado da	7/24/20 25 2:21:04 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04275 0.D	4-Methyl-2- Pentanone	SAM	7/24/20 25 9:03:31 AM	MMDado da	7/24/20 25 2:21:04 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04275 0.D	Benzyl Chloride	SAM	7/24/20 25 9:03:31 AM	MMDado da	7/24/20 25 2:21:04 PM	Peak Integrat ed by Softwar e incorrec tly

VSTDIC0.5	VL042750.D	Bromodichloromethane	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Dibromochloromethane	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Ethanol	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Heptane	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	m/p-Xylene	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Methyl Methacrylate	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly

VSTDIC0.5	VL042750.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Tetrahydrofuran	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Trichloroethene	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042752.D	1,1,1-Trichloroethane	SAM	7/24/2025 9:03:05 AM	MMDado da	7/24/2025 2:21:09 PM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042752.D	1,1,2,2-Tetrachloroethane	SAM	7/24/2025 9:03:05 AM	MMDado da	7/24/2025 2:21:09 PM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042752.D	Carbon Tetrachloride	SAM	7/24/2025 9:03:05 AM	MMDado da	7/24/2025 2:21:09 PM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042752.D	Tetrachloroethene	SAM	7/24/2025 9:03:05 AM	MMDado da	7/24/2025 2:21:09 PM	Peak Integrated by Software incorrectly

VSTDICCO.03	VL04275 2.D	Trichloroethene	SAM	7/24/20 25 9:03:05 AM	MMDado da	7/24/20 25 2:21:09 PM	Peak Integrated by Software incorrectly
VSTDICCO 15	VL04275 3.D	m/p-Xylene	SAM	7/24/20 25 9:03:41 AM	MMDado da	7/24/20 25 2:21:10 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04275 4.D	1,1,2,2-Tetrachloroethane	SAM	7/24/20 25 9:03:10 AM	MMDado da	7/24/20 25 2:21:12 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04275 4.D	1,2-Dibromoethane	SAM	7/24/20 25 9:03:10 AM	MMDado da	7/24/20 25 2:21:12 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04275 4.D	Carbon Tetrachloride	SAM	7/24/20 25 9:03:10 AM	MMDado da	7/24/20 25 2:21:12 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04275 4.D	Tetrachloroethene	SAM	7/24/20 25 9:03:10 AM	MMDado da	7/24/20 25 2:21:12 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04275 4.D	Trichloroethene	SAM	7/24/20 25 9:03:10 AM	MMDado da	7/24/20 25 2:21:12 PM	Peak Integrated by Software incorrectly

VSTDICV010	VL042755.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:15 AM	MMDadoda	7/24/2025 2:21:15 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042755.D	m/p-Xylene	SAM	7/24/2025 9:03:15 AM	MMDadoda	7/24/2025 2:21:15 PM	Peak Integrated by Software incorrectly

Sequence		VL073125	Instrument			MSVOA_I	
Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042788.D	m/p-Xylene	SAM	8/1/2025 10:51:05 AM	MMDadoda	8/1/2025 4:16:30 PM	Peak Integrated by Software incorrectly
VL0731ABS01	VL042790.D	m/p-Xylene	SAM	8/1/2025 10:51:10 AM	MMDadoda	8/1/2025 4:16:31 PM	Peak Integrated by Software incorrectly
VL0731ABSD01	VL042794.D	m/p-Xylene	SAM	8/1/2025 10:51:25 AM	MMDadoda	8/1/2025 4:16:38 PM	Peak Integrated by Software incorrectly

Manual Integration Report							
Sequence		VL081325	Instrument			MSVOA_I	

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042842.D	m/p-Xylene	SAM	8/14/2025 7:48:06 AM	MMDadoda	8/18/2025 8:42:07 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042843.D	1,1,2-	SAM	8/14/2025	MMDadoda	8/18/2025	Peak

	D	Trichloroethane		5 7:48:12 AM		8:42:11 AM	Integrate d by Software incorrectl y
VSTDICC002	VL042843. D	1,4-Dioxane	SAM	8/14/202 5 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrate d by Software incorrectl y
VSTDICC002	VL042843. D	cis-1,3- Dichloropropene	SAM	8/14/202 5 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrate d by Software incorrectl y
VSTDICC002	VL042843. D	Ethanol	SAM	8/14/202 5 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrate d by Software incorrectl y
VSTDICC002	VL042843. D	m/p-Xylene	SAM	8/14/202 5 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrate d by Software incorrectl y
VSTDICC002	VL042843. D	Methyl Methacrylate	SAM	8/14/202 5 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrate d by Software incorrectl y
VSTDICC001	VL042844. D	1,2- Dichloropropane	SAM	8/14/202 5 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by Software incorrectl y
VSTDICC001	VL042844. D	1,4-Dioxane	SAM	8/14/202 5 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by Software incorrectl y
VSTDICC001	VL042844. D	2,2,4- Trimethylpentan e	SAM	8/14/202 5 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by Software incorrectl y
VSTDICC001	VL042844. D	Ethanol	SAM	8/14/202 5 7:48:18	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by

				AM			Software incorrectl y
VSTDIC001	VL042844. D	Heptane	SAM	8/14/202 5 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by Software incorrectl y
VSTDIC001	VL042844. D	m/p-Xylene	SAM	8/14/202 5 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by Software incorrectl y
VSTDIC001	VL042844. D	Methyl Methacrylate	SAM	8/14/202 5 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by Software incorrectl y
VSTDIC001	VL042844. D	t-1,3- Dichloropropene	SAM	8/14/202 5 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by Software incorrectl y
VSTDIC001	VL042844. D	trans-1,2- Dichloroethene	SAM	8/14/202 5 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by Software incorrectl y
VSTDIC0.5	VL042845. D	1,1,2- Trichloroethane	SAM	8/14/202 5 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrate d by Software incorrectl y
VSTDIC0.5	VL042845. D	1,4-Dioxane	SAM	8/14/202 5 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrate d by Software incorrectl y
VSTDIC0.5	VL042845. D	2,2,4- Trimethylpentan e	SAM	8/14/202 5 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrate d by Software incorrectl y
VSTDIC0.5	VL042845. D	4-Methyl-2- Pentanone	SAM	8/14/202 5 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrate d by Software incorrectl

							y
VSTDICC0.5	VL042845.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	m/p-Xylene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	Methyl Methacrylate	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	t-1,3-Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	Toluene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042846.D	1,1,1-Trichloroethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042846.D	1,2-Dibromoethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042846.D	Naphthalene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042846.D	Tetrachloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042846.D	Trichloroethene	SAM	8/14/2025	MMDadoda	8/18/2025	Peak

	D			5 7:48:23 AM		8:42:18 AM	Integrate d by Software incorrectl y
VSTDIC0.0 3	VL042847. D	1,1,1- Trichloroethane	SAM	8/14/202 5 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrate d by Software incorrectl y
VSTDIC0.0 3	VL042847. D	1,1,2,2- Tetrachloroetha ne	SAM	8/14/202 5 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrate d by Software incorrectl y
VSTDIC0.0 3	VL042847. D	Carbon Tetrachloride	SAM	8/14/202 5 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrate d by Software incorrectl y
VSTDIC0.0 3	VL042847. D	Tetrachloroethe ne	SAM	8/14/202 5 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrate d by Software incorrectl y
VSTDIC0.0 3	VL042847. D	Trichloroethene	SAM	8/14/202 5 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrate d by Software incorrectl y
VSTDIC015	VL042848. D	m/p-Xylene	SAM	8/14/202 5 7:49:35 AM	MMDadoda	8/18/2025 8:42:35 AM	Peak Integrate d by Software incorrectl y
VSTDICV010	VL042849. D	cis-1,3- Dichloropropene	SAM	8/14/202 5 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrate d by Software incorrectl y
VSTDICV010	VL042849. D	m/p-Xylene	SAM	8/14/202 5 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrate d by Software incorrectl y
VL0813ABS0 1	VL042851. D	1,4-Dioxane	SAM	8/14/202 5 7:49:08	MMDadoda	8/18/2025 8:42:38 AM	Peak Integrate d by



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

				AM			Software incorrectl y
VL0813ABS0 1	VL042851. D	m/p-Xylene	SAM	8/14/202 5 7:49:08 AM	MMDadoda	8/18/2025 8:42:38 AM	Peak Integrate d by Software incorrectl y

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 #: Q2727

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SHREENA PATEL

Date: 08/25/2025

Hit Summary Sheet SW-846

SDG No.: Q2727

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: AE073-1100								
Q2727-01	AE073-1100	Air	Chloroethane	78.9	E	0.40	1.32	ug/m3
Q2727-01	AE073-1100	Air	Heptane	97.1	E	0.70	2.05	ug/m3
Q2727-01	AE073-1100	Air	1,1-Dichloroethene	155	E	0.59	1.98	ug/m3
Q2727-01	AE073-1100	Air	Benzene	161	E	0.26	1.60	ug/m3
Q2727-01	AE073-1100	Air	Bromodichloromethane	195	E	0.40	3.35	ug/m3
Q2727-01	AE073-1100	Air	Chlorobenzene	180	E	0.37	2.30	ug/m3
Q2727-01	AE073-1100	Air	Total Xylenes	373		2.69	6.52	ug/m3
Q2727-01	AE073-1100	Air	m/p-Xylene	157	E	1.78	4.34	ug/m3
Q2727-01	AE073-1100	Air	o-Xylene	216	E	0.91	2.17	ug/m3
Q2727-01	AE073-1100	Air	1,3,5-Trimethylbenzene	180	E	0.88	2.46	ug/m3
Q2727-01	AE073-1100	Air	1,2-Dichlorobenzene	180	E	0.78	3.01	ug/m3
Total Voc :				1970				
Total Concentration:				1970				
Client ID: AE073-1100DL								
Q2727-01DL	AE073-1100DL	Air	Chloroethane	76.8	D	0.79	2.64	ug/m3
Q2727-01DL	AE073-1100DL	Air	Heptane	95.5	D	1.39	4.10	ug/m3
Q2727-01DL	AE073-1100DL	Air	1,1-Dichloroethene	155	ED	1.19	3.96	ug/m3
Q2727-01DL	AE073-1100DL	Air	Benzene	175	ED	0.51	3.19	ug/m3
Q2727-01DL	AE073-1100DL	Air	Bromodichloromethane	200	D	0.87	6.70	ug/m3
Q2727-01DL	AE073-1100DL	Air	Chlorobenzene	193	ED	0.69	4.61	ug/m3
Q2727-01DL	AE073-1100DL	Air	Total Xylenes	410	D	5.39	13.0	ug/m3
Q2727-01DL	AE073-1100DL	Air	m/p-Xylene	166	D	3.56	8.69	ug/m3
Q2727-01DL	AE073-1100DL	Air	o-Xylene	244	ED	1.82	4.34	ug/m3
Q2727-01DL	AE073-1100DL	Air	1,3,5-Trimethylbenzene	193	ED	1.77	4.92	ug/m3
Q2727-01DL	AE073-1100DL	Air	1,2-Dichlorobenzene	187	ED	1.56	6.01	ug/m3
Total Voc :				2100				
Total Concentration:				2100				
Client ID: AE073-1100DL2								
Q2727-01DL2	AE073-1100DL2	Air	Chloroethane	74.2	D	1.58	5.28	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	Heptane	78.7	D	2.79	8.20	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	1,1-Dichloroethene	155	D	2.38	7.93	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	Benzene	149	D	1.02	6.39	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	Bromodichloromethane	163	D	1.67	13.4	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	Chlorobenzene	165	D	1.43	9.21	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	Total Xylenes	327	D	10.6	26.1	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	m/p-Xylene	133	D	6.95	17.4	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q2727

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2727-01DL2	AE073-1100DL2	Air	o-Xylene	194	D	3.65	8.69	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	1,3,5-Trimethylbenzene	143	D	3.54	9.83	ug/m3
Q2727-01DL2	AE073-1100DL2	Air	1,2-Dichlorobenzene	144	D	3.13	12.0	ug/m3
Total Voc :				1730				
Total Concentration:				1730				

Project : NJ AIR PT

Field Id Number : AE073-1100

Laboratory Id Number : Q2727-01

Sampling Date : 07/28/25

Analysis Date : 07/31/25

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Chlorodifluoromethane	75-45-6	86.47	0.12	U	0.42		
Dichlorodifluoromethane	75-71-8	120.9	0.11	U	0.54		
Ethanol	64-17-5	46.07	0.32	U	0.6		
Chloromethane	74-87-3	50.49	0.1	U	0.21		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Ethyl Acetate	141-78-6	97	0.12	U	0.48		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	29.9	E	78.9		
Tetrahydrofuran	109-99-9	72.11	0.08	U	0.24		
Trichlorofluoromethane	75-69-4	137.4	0.17	U	0.96		
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		
Bromoethene	593-60-2	106.9	0.2	U	0.87		
Propene	115-07-1	42	0.08	U	0.14		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	23.7	E	97.1		
Isopropyl Alcohol	67-63-0	60.1	0.23	U	0.57		
1,1-Dichloroethene	75-35-4	96.94	39	E	154		
Acetone	67-64-1	58.08	0.18	U	0.43		
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	0.23	U	0.8		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
Vinyl Acetate	108-05-4	88	0.26	U	0.94		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.06	U	0.18		
Carbon Tetrachloride	56-23-5	153.8	0.03	U	0.19		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.1	U	0.49		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	50.3	E	160		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		

Project : NJ AIR PT

Sampling Date : 07/28/25

Field Id Number : AE073-1100

Analysis Date : 07/31/25

Laboratory Id Number : Q2727-01

Target Analyts : Air Results

1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	29.1	E	194		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.16	U	0.6		
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		
2-Hexanone	591-78-6	100	0.11	U	0.45		
Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	39	E	179		
Ethyl Benzene	100-41-4	106.2	0.19	U	0.83		
m/p-Xylene	179601-23-1	106.2	36.1	E	156		
Total Xylenes	1330-20-7	106.2	85.8		372		
o-Xylene	95-47-6	106.2	49.7	E	215		
Styrene	100-42-5	104.1	0.16	U	0.68		
Bromoform	75-25-2	252.8	0.05	U	0.52		
Isopropylbenzene	98-82-8	120.19	0.16	U	0.79		
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	36.7	E	180		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	U	0.88		
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	29.9	E	179		
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	0.16	U	0.56		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
Benzyl Chloride	100-44-7	126.59	0.09	U	0.47		
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 : NJ AIR PT

Sampling Date : 07/28/25

Field Id Number : AE073-1100DL

Analysis Date : 07/31/25

Laboratory Id Number : Q2727-01DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Chlorodifluoromethane	75-45-6	86.47	0.24	UD	0.85		
Dichlorodifluoromethane	75-71-8	120.9	0.22	UD	1.09		
Ethanol	64-17-5	46.07	0.64	UD	1.21		
Chloromethane	74-87-3	50.49	0.2	UD	0.41		
Vinyl Chloride	75-01-4	62.5	0.05	UD	0.13		
Ethyl Acetate	141-78-6	97	0.24	UD	0.95		
Bromomethane	74-83-9	94.94	0.15	UD	0.58		
Chloroethane	75-00-3	64.52	29.1	D	76.8		
Tetrahydrofuran	109-99-9	72.11	0.16	UD	0.47		
Trichlorofluoromethane	75-69-4	137.4	0.34	UD	1.91		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	UD	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	UD	2.15		
Bromoethene	593-60-2	106.9	0.4	UD	1.75		
Propene	115-07-1	42	0.15	UD	0.26		
tert-Butyl alcohol	75-65-0	74.12	0.32	UD	0.97		
Heptane	142-82-5	100.2	23.3	D	95.5		
Isopropyl Alcohol	67-63-0	60.1	0.46	UD	1.13		
1,1-Dichloroethene	75-35-4	96.94	39.1	ED	155		
Acetone	67-64-1	58.08	0.36	UD	0.86		
Carbon Disulfide	75-15-0	76.14	0.16	UD	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	UD	1.66		
Methylene Chloride	75-09-2	84.94	0.46	UD	1.6		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	UD	0.95		
Vinyl Acetate	108-05-4	88	0.52	UD	1.87		
1,1-Dichloroethane	75-34-3	98.96	0.26	UD	1.05		
Cyclohexane	110-82-7	84.16	0.44	UD	1.51		
2-Butanone	78-93-3	72.11	0.11	UD	0.32		
Carbon Tetrachloride	56-23-5	153.8	0.05	UD	0.31		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	UD	0.79		
Chloroform	67-66-3	119.4	0.19	UD	0.93		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	UD	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	UD	1.31		
Benzene	71-43-2	78.11	54.7	ED	174		
1,2-Dichloroethane	107-06-2	98.96	0.19	UD	0.77		
Trichloroethene	79-01-6	131.4	0.05	UD	0.27		

Project : NJ AIR PT

Sampling Date : 07/28/25

Field Id Number : AE073-1100DL

Analysis Date : 07/31/25

Laboratory Id Number : Q2727-01DL

Target Analyts : Air Results

1,2-Dichloropropane	78-87-5	113	0.26	UD	1.2		
Bromodichloromethane	75-27-4	163.8	29.8	D	199		
4-Methyl-2-Pentanone	108-10-1	100.2	0.19	UD	0.78		
Toluene	108-88-3	92.14	0.32	UD	1.21		
t-1,3-Dichloropropene	10061-02-6	111	0.3	UD	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	UD	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	UD	0.87		
2-Hexanone	591-78-6	100	0.22	UD	0.9		
Dibromochloromethane	124-48-1	208.3	0.17	UD	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	UD	1.31		
Tetrachloroethene	127-18-4	165.8	0.03	UD	0.2		
Chlorobenzene	108-90-7	112.6	42	ED	193		
Ethyl Benzene	100-41-4	106.2	0.38	UD	1.65		
m/p-Xylene	179601-23-1	106.2	38.3	D	166		
Total Xylenes	1330-20-7	106.2	94.5	D	410		
o-Xylene	95-47-6	106.2	56.2	ED	244		
Styrene	100-42-5	104.1	0.32	UD	1.36		
Bromoform	75-25-2	252.8	0.1	UD	1.03		
Isopropylbenzene	98-82-8	120.19	0.32	UD	1.57		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	UD	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	UD	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	39.2	ED	192		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	UD	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	UD	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	UD	1.56		
1,2-Dichlorobenzene	95-50-1	147	31.1	ED	186		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	UD	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	UD	2.77		
Naphthalene	91-20-3	128.17	0.03	UD	0.16		
1,3-Butadiene	106-99-0	54.09	0.1	UD	0.22		
4-Ethyltoluene	622-96-8	120.2	0.42	UD	2.06		
Hexane	110-54-3	86.17	0.32	UD	1.13		
Allyl Chloride	107-05-1	76.53	0.22	UD	0.69		
Benzyl Chloride	100-44-7	126.59	0.18	UD	0.93		
1,4-Dioxane	123-91-1	88.12	0.44	UD	1.59		
Methyl Methacrylate	80-62-6	100.117	0.28	UD	1.15		

Project : NJ AIR PT

Sampling Date : 07/28/25

Field Id Number : AE073-1100DL2

Analysis Date : 08/13/25

Laboratory Id Number : Q2727-01DL2

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Chlorodifluoromethane	75-45-6	86.47	0.48	UD	1.7		
Dichlorodifluoromethane	75-71-8	120.9	0.44	UD	2.18		
Ethanol	64-17-5	46.07	1.3	UD	2.45		
Chloromethane	74-87-3	50.49	0.39	UD	0.81		
Vinyl Chloride	75-01-4	62.5	0.1	UD	0.26		
Ethyl Acetate	141-78-6	97	0.48	UD	1.9		
Bromomethane	74-83-9	94.94	0.31	UD	1.2		
Chloroethane	75-00-3	64.52	28.1	D	74.2		
Tetrahydrofuran	109-99-9	72.11	0.32	UD	0.94		
Trichlorofluoromethane	75-69-4	137.4	0.68	UD	3.82		
Dichlorotetrafluoroethane	76-14-2	170.9	0.6	UD	4.19		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.56	UD	4.29		
Bromoethene	593-60-2	106.9	0.8	UD	3.5		
tert-Butyl alcohol	75-65-0	74.12	0.64	UD	1.94		
Propene	115-07-1	42	0.31	UD	0.53		
Heptane	142-82-5	100.2	19.2	D	78.7		
Isopropyl Alcohol	67-63-0	60.1	0.92	UD	2.26		
1,1-Dichloroethene	75-35-4	96.94	39	D	154		
Acetone	67-64-1	58.08	0.72	UD	1.71		
Carbon Disulfide	75-15-0	76.14	0.32	UD	1		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.92	UD	3.32		
Methylene Chloride	75-09-2	84.94	0.92	UD	3.2		
trans-1,2-Dichloroethene	156-60-5	96.94	0.48	UD	1.9		
Vinyl Acetate	108-05-4	88	1	UD	3.6		
1,1-Dichloroethane	75-34-3	98.96	0.52	UD	2.1		
Cyclohexane	110-82-7	84.16	0.88	UD	3.03		
2-Butanone	78-93-3	72.11	0.22	UD	0.65		
Carbon Tetrachloride	56-23-5	153.8	0.1	UD	0.63		
cis-1,2-Dichloroethene	156-59-2	96.94	0.4	UD	1.59		
Chloroform	67-66-3	119.4	0.38	UD	1.86		
1,1,1-Trichloroethane	71-55-6	133.4	0.06	UD	0.33		
2,2,4-Trimethylpentane	540-84-1	114.2	0.56	UD	2.62		
Benzene	71-43-2	78.11	46.7	D	149		
1,2-Dichloroethane	107-06-2	98.96	0.37	UD	1.5		
Trichloroethene	79-01-6	131.4	0.1	UD	0.54		

Project : NJ AIR PT

Sampling Date : 07/28/25

Field Id Number : AE073-1100DL2

Analysis Date : 08/13/25

Laboratory Id Number : Q2727-01DL2

Target Analyts : Air Results

1,2-Dichloropropane	78-87-5	113	0.52	UD	2.4		
Bromodichloromethane	75-27-4	163.8	24.4	D	163		
4-Methyl-2-Pentanone	108-10-1	100.2	0.39	UD	1.6		
Toluene	108-88-3	92.14	0.64	UD	2.41		
t-1,3-Dichloropropene	10061-02-6	111	0.6	UD	2.72		
cis-1,3-Dichloropropene	10061-01-5	111	0.44	UD	2		
1,1,2-Trichloroethane	79-00-5	133.4	0.32	UD	1.75		
2-Hexanone	591-78-6	100	0.44	UD	1.8		
Dibromochloromethane	124-48-1	208.3	0.34	UD	2.9		
1,2-Dibromoethane	106-93-4	187.9	0.34	UD	2.61		
Tetrachloroethene	127-18-4	165.8	0.06	UD	0.41		
Chlorobenzene	108-90-7	112.6	35.9	D	165		
Ethyl Benzene	100-41-4	106.2	0.76	UD	3.3		
m/p-Xylene	179601-23-1	106.2	30.7	D	133		
Total Xylenes	1330-20-7	106.2	75.3	D	327		
o-Xylene	95-47-6	106.2	44.6	D	193		
Styrene	100-42-5	104.1	0.64	UD	2.72		
Bromoform	75-25-2	252.8	0.19	UD	1.96		
Isopropylbenzene	98-82-8	120.19	0.64	UD	3.15		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.07	UD	0.48		
2-Chlorotoluene	95-49-8	126.6	0.68	UD	3.52		
1,3,5-Trimethylbenzene	108-67-8	120.2	29.1	D	143		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.72	UD	3.54		
1,3-Dichlorobenzene	541-73-1	147	0.22	UD	1.32		
1,4-Dichlorobenzene	106-46-7	147	0.52	UD	3.13		
1,2-Dichlorobenzene	95-50-1	147	24	D	144		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.84	UD	6.24		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.52	UD	5.55		
Naphthalene	91-20-3	128.17	0.05	UD	0.26		
1,3-Butadiene	106-99-0	54.09	0.2	UD	0.44		
4-Ethyltoluene	622-96-8	120.2	0.84	UD	4.13		
Hexane	110-54-3	86.17	0.64	UD	2.26		
Allyl Chloride	107-05-1	76.53	0.44	UD	1.38		
Benzyl Chloride	100-44-7	126.59	0.36	UD	1.86		
1,4-Dioxane	123-91-1	88.12	0.88	UD	3.17		
Methyl Methacrylate	80-62-6	100.117	0.56	UD	2.29		

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

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



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

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

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



QC SUMMARY

Surrogate Summary

SDG No.: Q2727

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2727-01	AE073-1100	1-Bromo-4-Fluorobenzene	10	10.7	107		65	135
Q2727-01DL	AE073-1100DL	1-Bromo-4-Fluorobenzene	10	10.6	106		65	135
Q2727-01DL2	AE073-1100DL2	1-Bromo-4-Fluorobenzene	10	9.96	100		65	135
VL0731ABL01	VL0731ABL01	1-Bromo-4-Fluorobenzene	10	9.82	98		65	135
VL0731ABS01	VL0731ABS01	1-Bromo-4-Fluorobenzene	10	10.3	103		65	135
VL0731ABSD01	VL0731ABSD01	1-Bromo-4-Fluorobenzene	10	10.4	104		65	135
VL0813ABL01	VL0813ABL01	1-Bromo-4-Fluorobenzene	10	10.0	100		65	135
VL0813ABS01	VL0813ABS01	1-Bromo-4-Fluorobenzene	10	10.1	101		65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2727</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>Alliance Technical Group, LLC - New</u>	Datafile :	<u>VL042790.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0731ABS01	Chlorodifluoromethane	10	10.0	ppbv	100			70	130	
	Dichlorodifluoromethane	10	9.60	ppbv	96			70	130	
	Ethanol	10	8.70	ppbv	87			70	130	
	Chloromethane	10	9.80	ppbv	98			70	130	
	Vinyl Chloride	10	8.50	ppbv	85			70	130	
	Ethyl Acetate	10	10.5	ppbv	105			70	130	
	Bromomethane	10	9.00	ppbv	90			70	130	
	Chloroethane	10	8.80	ppbv	88			70	130	
	Tetrahydrofuran	10	11.4	ppbv	114			70	130	
	Trichlorofluoromethane	10	9.30	ppbv	93			70	130	
	1,1,2-Trichlorotrifluoroethane	10	9.40	ppbv	94			70	130	
	Dichlorotetrafluoroethane	10	9.40	ppbv	94			70	130	
	Bromoethene	10	9.50	ppbv	95			70	130	
	tert-Butyl Alcohol	10	9.00	ppbv	90			70	130	
	Propene	10	9.90	ppbv	99			70	130	
	Heptane	10	10.7	ppbv	107			70	130	
	Isopropyl Alcohol	10	8.80	ppbv	88			70	130	
	1,1-Dichloroethene	10	9.00	ppbv	90			70	130	
	Acetone	10	7.60	ppbv	76			70	130	
	Carbon disulfide	10	10.2	ppbv	102			70	130	
	Methyl tert-butyl Ether	10	9.70	ppbv	97			70	130	
	Methylene Chloride	10	8.40	ppbv	84			70	130	
	trans-1,2-Dichloroethene	10	9.50	ppbv	95			70	130	
	Vinyl Acetate	10	11.5	ppbv	115			70	130	
	1,1-Dichloroethane	10	9.40	ppbv	94			70	130	
	Cyclohexane	10	10.3	ppbv	103			70	130	
	2-Butanone	10	10.8	ppbv	108			70	130	
	Carbon Tetrachloride	10	10.7	ppbv	107			70	130	
	cis-1,2-Dichloroethene	10	10.0	ppbv	100			70	130	
	Chloroform	10	10.3	ppbv	103			70	130	
	1,1,1-Trichloroethane	10	9.60	ppbv	96			70	130	
	2,2,4-Trimethylpentane	10	11.1	ppbv	111			70	130	
	Benzene	10	10.5	ppbv	105			70	130	
	1,2-Dichloroethane	10	10.6	ppbv	106			70	130	
	Trichloroethene	10	9.80	ppbv	98			70	130	
	1,2-Dichloropropane	10	10.5	ppbv	105			70	130	
	Bromodichloromethane	10	11.1	ppbv	111			70	130	
	4-Methyl-2-Pentanone	10	11.3	ppbv	113			70	130	
	Toluene	10	11.0	ppbv	110			70	130	
	t-1,3-Dichloropropene	10	11.2	ppbv	112			70	130	
	cis-1,3-Dichloropropene	10	11.1	ppbv	111			70	130	
	1,1,2-Trichloroethane	10	10.6	ppbv	106			70	130	
	2-Hexanone	10	11.9	ppbv	119			70	130	
	Dibromochloromethane	10	11.3	ppbv	113			70	130	
	1,2-Dibromoethane	10	10.9	ppbv	109			70	130	
	Tetrachloroethene	10	9.50	ppbv	95			70	130	
	Chlorobenzene	10	10.4	ppbv	104			70	130	
	Ethyl Benzene	10	11.1	ppbv	111			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2727</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>Alliance Technical Group, LLC - New</u>	Datafile :	<u>VL042790.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0731ABS01	m/p-Xylene	20	22.8	ppbv	114			70	130	
	o-Xylene	10	11.2	ppbv	112			70	130	
	Styrene	10	11.4	ppbv	114			70	130	
	Bromoform	10	11.4	ppbv	114			70	130	
	Isopropylbenzene	10	11.0	ppbv	110			70	130	
	1,1,2,2-Tetrachloroethane	10	10.2	ppbv	102			70	130	
	2-Chlorotoluene	10	11.2	ppbv	112			70	130	
	1,3,5-Trimethylbenzene	10	11.9	ppbv	119			70	130	
	1,2,4-Trimethylbenzene	10	12.1	ppbv	121			70	130	
	1,3-Dichlorobenzene	10	10.9	ppbv	109			70	130	
	1,4-Dichlorobenzene	10	11.3	ppbv	113			70	130	
	1,2-Dichlorobenzene	10	10.8	ppbv	108			70	130	
	1,2,4-Trichlorobenzene	10	10.6	ppbv	106			70	130	
	Hexachloro-1,3-butadiene	10	9.50	ppbv	95			70	130	
	Naphthalene	10	10.5	ppbv	105			70	130	
	1,3-Butadiene	10	9.00	ppbv	90			70	130	
	4-Ethyltoluene	10	11.7	ppbv	117			70	130	
	Hexane	10	10.3	ppbv	103			70	130	
	Allyl Chloride	10	9.80	ppbv	98			70	130	
	1,4-Dioxane	10	8.60	ppbv	86			70	130	
	Benzyl Chloride	10	13.4	ppbv	134		*	70	130	
	Methyl methacrylate	10	11.5	ppbv	115			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2727</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>Alliance Technical Group, LLC - New</u>	Datafile :	<u>VL042794.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0731ABSD01	Chlorodifluoromethane	10	10.1	ppbv	101	1		70	130	25
	Dichlorodifluoromethane	10	9.70	ppbv	97	1		70	130	25
	Ethanol	10	8.30	ppbv	83	5		70	130	25
	Chloromethane	10	9.20	ppbv	92	6		70	130	25
	Vinyl Chloride	10	8.40	ppbv	84	1		70	130	25
	Ethyl Acetate	10	10.3	ppbv	103	2		70	130	25
	Bromomethane	10	9.10	ppbv	91	1		70	130	25
	Chloroethane	10	8.80	ppbv	88	0		70	130	25
	Tetrahydrofuran	10	11.4	ppbv	114	0		70	130	25
	Trichlorofluoromethane	10	9.00	ppbv	90	3		70	130	25
	1,1,2-Trichlorotrifluoroethane	10	9.40	ppbv	94	0		70	130	25
	Dichlorotetrafluoroethane	10	9.30	ppbv	93	1		70	130	25
	Bromoethene	10	9.00	ppbv	90	5		70	130	25
	tert-Butyl Alcohol	10	8.80	ppbv	88	2		70	130	25
	Propene	10	7.50	ppbv	75	28	*	70	130	25
	Heptane	10	10.6	ppbv	106	1		70	130	25
	Isopropyl Alcohol	10	8.50	ppbv	85	3		70	130	25
	1,1-Dichloroethene	10	8.90	ppbv	89	1		70	130	25
	Acetone	10	7.40	ppbv	74	3		70	130	25
	Carbon disulfide	10	10.0	ppbv	100	2		70	130	25
	Methyl tert-butyl Ether	10	9.00	ppbv	90	7		70	130	25
	Methylene Chloride	10	8.50	ppbv	85	1		70	130	25
	trans-1,2-Dichloroethene	10	9.20	ppbv	92	3		70	130	25
	Vinyl Acetate	10	11.1	ppbv	111	4		70	130	25
	1,1-Dichloroethane	10	9.20	ppbv	92	2		70	130	25
	Cyclohexane	10	9.70	ppbv	97	6		70	130	25
	2-Butanone	10	10.7	ppbv	107	1		70	130	25
	Carbon Tetrachloride	10	11.0	ppbv	110	3		70	130	25
	cis-1,2-Dichloroethene	10	9.60	ppbv	96	4		70	130	25
	Chloroform	10	10.2	ppbv	102	1		70	130	25
	1,1,1-Trichloroethane	10	9.60	ppbv	96	0		70	130	25
	2,2,4-Trimethylpentane	10	11.3	ppbv	113	2		70	130	25
	Benzene	10	10.7	ppbv	107	2		70	130	25
	1,2-Dichloroethane	10	10.8	ppbv	108	2		70	130	25
	Trichloroethene	10	10.0	ppbv	100	2		70	130	25
	1,2-Dichloropropane	10	10.7	ppbv	107	2		70	130	25
	Bromodichloromethane	10	11.3	ppbv	113	2		70	130	25
	4-Methyl-2-Pentanone	10	11.5	ppbv	115	2		70	130	25
	Toluene	10	11.1	ppbv	111	1		70	130	25
	t-1,3-Dichloropropene	10	11.0	ppbv	110	2		70	130	25
	cis-1,3-Dichloropropene	10	11.2	ppbv	112	1		70	130	25
	1,1,2-Trichloroethane	10	10.9	ppbv	109	3		70	130	25
	2-Hexanone	10	12.2	ppbv	122	2		70	130	25
	Dibromochloromethane	10	11.5	ppbv	115	2		70	130	25
	1,2-Dibromoethane	10	11.2	ppbv	112	3		70	130	25
	Tetrachloroethene	10	9.50	ppbv	95	0		70	130	25
	Chlorobenzene	10	10.5	ppbv	105	1		70	130	25
	Ethyl Benzene	10	11.2	ppbv	112	1		70	130	25

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2727</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>Alliance Technical Group, LLC - New</u>	Datafile :	<u>VL042794.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0731ABSD01	m/p-Xylene	20	23.3	ppbv	117	3		70	130	25
	o-Xylene	10	11.6	ppbv	116	4		70	130	25
	Styrene	10	11.8	ppbv	118	3		70	130	25
	Bromoform	10	11.8	ppbv	118	3		70	130	25
	Isopropylbenzene	10	11.3	ppbv	113	3		70	130	25
	1,1,2,2-Tetrachloroethane	10	10.3	ppbv	103	1		70	130	25
	2-Chlorotoluene	10	11.3	ppbv	113	1		70	130	25
	1,3,5-Trimethylbenzene	10	12.1	ppbv	121	2		70	130	25
	1,2,4-Trimethylbenzene	10	12.2	ppbv	122	1		70	130	25
	1,3-Dichlorobenzene	10	11.2	ppbv	112	3		70	130	25
	1,4-Dichlorobenzene	10	11.3	ppbv	113	0		70	130	25
	1,2-Dichlorobenzene	10	11.0	ppbv	110	2		70	130	25
	1,2,4-Trichlorobenzene	10	10.8	ppbv	108	2		70	130	25
	Hexachloro-1,3-butadiene	10	9.90	ppbv	99	4		70	130	25
	Naphthalene	10	10.8	ppbv	108	3		70	130	25
	1,3-Butadiene	10	8.90	ppbv	89	1		70	130	25
	4-Ethyltoluene	10	11.9	ppbv	119	2		70	130	25
	Hexane	10	10.1	ppbv	101	2		70	130	25
	Allyl Chloride	10	9.30	ppbv	93	5		70	130	25
	1,4-Dioxane	10	9.90	ppbv	99	14		70	130	25
	Benzyl Chloride	10	13.6	ppbv	136	1	*	70	130	25
	Methyl methacrylate	10	11.3	ppbv	113	2		70	130	25

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2727</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>Alliance Technical Group, LLC - New</u>	Datafile :	<u>VL042851.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0813ABS01	Chlorodifluoromethane	10	9.40	ppbv	94			70	130	
	Dichlorodifluoromethane	10	9.30	ppbv	93			70	130	
	Ethanol	10	7.50	ppbv	75			70	130	
	Chloromethane	10	9.00	ppbv	90			70	130	
	Vinyl Chloride	10	8.70	ppbv	87			70	130	
	Ethyl Acetate	10	9.20	ppbv	92			70	130	
	Bromomethane	10	8.50	ppbv	85			70	130	
	Chloroethane	10	8.90	ppbv	89			70	130	
	Tetrahydrofuran	10	9.20	ppbv	92			70	130	
	Trichlorofluoromethane	10	9.10	ppbv	91			70	130	
	1,1,2-Trichlorotrifluoroethane	10	9.20	ppbv	92			70	130	
	Dichlorotetrafluoroethane	10	9.50	ppbv	95			70	130	
	Bromoethene	10	9.20	ppbv	92			70	130	
	tert-Butyl Alcohol	10	8.70	ppbv	87			70	130	
	Propene	10	8.70	ppbv	87			70	130	
	Heptane	10	9.10	ppbv	91			70	130	
	Isopropyl Alcohol	10	8.50	ppbv	85			70	130	
	1,1-Dichloroethene	10	9.40	ppbv	94			70	130	
	Acetone	10	7.40	ppbv	74			70	130	
	Carbon disulfide	10	9.10	ppbv	91			70	130	
	Methyl tert-butyl Ether	10	9.60	ppbv	96			70	130	
	Methylene Chloride	10	7.40	ppbv	74			70	130	
	trans-1,2-Dichloroethene	10	9.10	ppbv	91			70	130	
	Vinyl Acetate	10	9.70	ppbv	97			70	130	
	1,1-Dichloroethane	10	9.00	ppbv	90			70	130	
	Cyclohexane	10	9.30	ppbv	93			70	130	
	2-Butanone	10	9.00	ppbv	90			70	130	
	Carbon Tetrachloride	10	9.30	ppbv	93			70	130	
	cis-1,2-Dichloroethene	10	9.20	ppbv	92			70	130	
	Chloroform	10	9.50	ppbv	95			70	130	
	1,1,1-Trichloroethane	10	9.40	ppbv	94			70	130	
	2,2,4-Trimethylpentane	10	9.00	ppbv	90			70	130	
	Benzene	10	9.40	ppbv	94			70	130	
	1,2-Dichloroethane	10	9.90	ppbv	99			70	130	
	Trichloroethene	10	8.90	ppbv	89			70	130	
	1,2-Dichloropropane	10	9.30	ppbv	93			70	130	
	Bromodichloromethane	10	9.50	ppbv	95			70	130	
	4-Methyl-2-Pentanone	10	9.30	ppbv	93			70	130	
	Toluene	10	9.20	ppbv	92			70	130	
	t-1,3-Dichloropropene	10	9.30	ppbv	93			70	130	
	cis-1,3-Dichloropropene	10	9.30	ppbv	93			70	130	
	1,1,2-Trichloroethane	10	9.40	ppbv	94			70	130	
	2-Hexanone	10	9.40	ppbv	94			70	130	
	Dibromochloromethane	10	9.40	ppbv	94			70	130	
	1,2-Dibromoethane	10	9.30	ppbv	93			70	130	
	Tetrachloroethene	10	8.40	ppbv	84			70	130	
	Chlorobenzene	10	9.30	ppbv	93			70	130	
	Ethyl Benzene	10	9.40	ppbv	94			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2727</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>Alliance Technical Group, LLC - New</u>	Datafile :	<u>VL042851.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0813ABS01	m/p-Xylene	20	18.8	ppbv	94			70	130	
	o-Xylene	10	9.30	ppbv	93			70	130	
	Styrene	10	9.40	ppbv	94			70	130	
	Bromoform	10	9.20	ppbv	92			70	130	
	Isopropylbenzene	10	9.30	ppbv	93			70	130	
	1,1,2,2-Tetrachloroethane	10	9.00	ppbv	90			70	130	
	2-Chlorotoluene	10	9.20	ppbv	92			70	130	
	1,3,5-Trimethylbenzene	10	9.20	ppbv	92			70	130	
	1,2,4-Trimethylbenzene	10	9.00	ppbv	90			70	130	
	1,3-Dichlorobenzene	10	9.00	ppbv	90			70	130	
	1,4-Dichlorobenzene	10	9.00	ppbv	90			70	130	
	1,2-Dichlorobenzene	10	8.90	ppbv	89			70	130	
	1,2,4-Trichlorobenzene	10	8.80	ppbv	88			70	130	
	Hexachloro-1,3-butadiene	10	7.50	ppbv	75			70	130	
	Naphthalene	10	8.90	ppbv	89			70	130	
	1,3-Butadiene	10	8.40	ppbv	84			70	130	
	4-Ethyltoluene	10	9.30	ppbv	93			70	130	
	Hexane	10	9.20	ppbv	92			70	130	
	Allyl Chloride	10	8.90	ppbv	89			70	130	
	1,4-Dioxane	10	8.80	ppbv	88			70	130	
	Benzyl Chloride	10	8.50	ppbv	85			70	130	
	Methyl methacrylate	10	9.00	ppbv	90			70	130	

VOLATILE METHOD BLANK SUMMARY

Client ID

VL0731ABL01

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q2727

Lab File ID: VL042789.D

Lab Sample ID: VL0731ABL01

Date Analyzed: 07/31/2025

Time Analyzed: 09:29

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
VL0731ABS01	VL0731ABS01	VL042790.D	07/31/2025
AE073-1100	Q2727-01	VL042791.D	07/31/2025
AE073-1100DL	Q2727-01DL	VL042792.D	07/31/2025
VL0731ABSD01	VL0731ABSD01	VL042794.D	07/31/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VL0813ABL01

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q2727

Lab File ID: VL042850.D

Lab Sample ID: VL0813ABL01

Date Analyzed: 08/13/2025

Time Analyzed: 13:46

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
VL0813ABS01	VL0813ABS01	VL042851.D	08/13/2025
AE073-1100DL2	Q2727-01DL2	VL042852.D	08/13/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q2727

Lab File ID: VL042746.D

BFB Injection Date: 07/23/2025

Instrument ID: MSVOA_L

BFB Injection Time: 08:00

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.9
75	30.0 - 66.0% of mass 95	59.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 120.0% of mass 95	65.3
175	4.0 - 9.0% of mass 174	5.2 (8) 1
176	93.0 - 101.0% of mass 174	64.6 (99) 1
177	5.0 - 9.0% of mass 176	4.4 (6.7) 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	VL042747.D	07/23/2025	08:58
VSTDICCC002	VSTDICCC002	VL042748.D	07/23/2025	09:34
VSTDICCC001	VSTDICCC001	VL042749.D	07/23/2025	10:08
VSTDICCC0.5	VSTDICCC0.5	VL042750.D	07/23/2025	10:42
VSTDICCC0.03	VSTDICCC0.03	VL042752.D	07/23/2025	11:50
VSTDICCC015	VSTDICCC015	VL042753.D	07/23/2025	12:26
VSTDICCC0.1	VSTDICCC0.1	VL042754.D	07/23/2025	13:00

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Lab Code: ACE

Lab File ID: VL042787.D

Instrument ID: MSVOA_L

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

Contract: ALLI03

SDG NO.: Q2727

BFB Injection Date: 07/31/2025

BFB Injection Time: 07:46

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.3
75	30.0 - 66.0% of mass 95	57.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 120.0% of mass 95	62
175	4.0 - 9.0% of mass 174	4.7 (7.5) 1
176	93.0 - 101.0% of mass 174	62.4 (100.7) 1
177	5.0 - 9.0% of mass 176	3.9 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042788.D	07/31/2025	08:37
VL0731ABL01	VL0731ABL01	VL042789.D	07/31/2025	09:29
VL0731ABS01	VL0731ABS01	VL042790.D	07/31/2025	10:15
AE073-1100	Q2727-01	VL042791.D	07/31/2025	12:03
AE073-1100DL	Q2727-01DL	VL042792.D	07/31/2025	12:39
VL0731ABSD01	VL0731ABSD01	VL042794.D	07/31/2025	13:55

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q2727

Lab File ID: VL042841.D

BFB Injection Date: 08/13/2025

Instrument ID: MSVOA_L

BFB Injection Time: 07:45

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.8
75	30.0 - 66.0% of mass 95	53.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 120.0% of mass 95	62
175	4.0 - 9.0% of mass 174	4.5 (7.3) 1
176	93.0 - 101.0% of mass 174	60 (96.7) 1
177	5.0 - 9.0% of mass 176	3.7 (6.1) 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	VL042842.D	08/13/2025	08:30
VSTDICCC002	VSTDICCC002	VL042843.D	08/13/2025	09:06
VSTDICCC001	VSTDICCC001	VL042844.D	08/13/2025	09:41
VSTDICCC0.5	VSTDICCC0.5	VL042845.D	08/13/2025	10:17
VSTDICCC0.1	VSTDICCC0.1	VL042846.D	08/13/2025	10:53
VSTDICCC0.03	VSTDICCC0.03	VL042847.D	08/13/2025	11:30
VSTDICCC015	VSTDICCC015	VL042848.D	08/13/2025	12:06
VL0813ABL01	VL0813ABL01	VL042850.D	08/13/2025	13:46
VL0813ABS01	VL0813ABS01	VL042851.D	08/13/2025	14:32
AE073-1100DL2	Q2727-01DL2	VL042852.D	08/13/2025	15:10

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ALLI03
 Lab Code: ACE SDG NO.: Q2727
 Lab File ID: VL042788.D Date Analyzed: 07/31/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:37
 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	139439	2.79	391811	3.97	345903	8.89
UPPER LIMIT	195215	3.12	548535	4.30	484264	9.22
LOWER LIMIT	83663.4	2.46	235087	3.64	207542	8.56
EPA SAMPLE NO.						
AE073-1100	141472	2.79	391365	3.97	346534	8.89
AE073-1100DL	136777	2.80	371224	3.97	324625	8.90
VL0731ABL01	139538	2.79	390208	3.97	340795	8.89
VL0731ABS01	140975	2.79	391458	3.97	349880	8.89
VL0731ABSD01	143361	2.79	385270	3.97	347681	8.89

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ALLI03
 Lab Code: ACE SDG NO.: Q2727
 Lab File ID: VL042842.D Date Analyzed: 08/13/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:30
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	133104	2.79	413632	3.97	370372	8.89
UPPER LIMIT	186346	3.12	579085	4.30	518521	9.22
LOWER LIMIT	79862.4	2.46	248179	3.64	222223	8.56
EPA SAMPLE NO.						
AE073-1100DL2	118347	2.79	364683	3.97	318426	8.89
VL0813ABL01	119946	2.79	373094	3.97	324853	8.89
VL0813ABS01	116881	2.79	368200	3.97	322291	8.90

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

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

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



SAMPLE DATA

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100	SDG No.:	Q2727
Lab Sample ID:	Q2727-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042791.D	1		07/31/25 12:03	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-45-6	Chlorodifluoromethane	0.12	0.42	U	0.42	1.77	ug/m3
75-71-8	Dichlorodifluoromethane	0.11	0.54	U	0.54	2.47	ug/m3
64-17-5	Ethanol	0.32	0.60	U	0.60	0.94	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
141-78-6	Ethyl Acetate	0.12	0.48	U	0.48	1.98	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	29.9	78.9	E	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.080	0.24	U	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.17	0.96	U	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
593-60-2	Bromoethene	0.20	0.87	U	0.87	2.19	ug/m3
115-07-1	Propene	0.080	0.14	U	0.14	0.86	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	23.7	97.1	E	0.70	2.05	ug/m3
67-63-0	Isopropyl Alcohol	0.23	0.57	U	0.57	1.23	ug/m3
75-35-4	1,1-Dichloroethene	39.0	155	E	0.59	1.98	ug/m3
67-64-1	Acetone	0.18	0.43	U	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	0.080	0.25	U	0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	0.23	0.80	U	0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
108-05-4	Vinyl Acetate	0.26	0.94	U	0.94	1.80	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.060	0.18	U	0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.030	0.19	U	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.10	0.49	U	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	50.3	161	E	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100	SDG No.:	Q2727
Lab Sample ID:	Q2727-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042791.D	1		07/31/25 12:03	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	29.1	195	E	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.16	0.60	U	0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3
591-78-6	2-Hexanone	0.11	0.45	U	0.45	2.04	ug/m3
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	39.0	180	E	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	36.1	157	E	1.78	4.34	ug/m3
1330-20-7	Total Xylenes	85.8	373		2.69	6.52	ug/m3
95-47-6	o-Xylene	49.7	216	E	0.91	2.17	ug/m3
100-42-5	Styrene	0.16	0.68	U	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
98-82-8	Isopropylbenzene	0.16	0.79	U	0.79	2.46	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	36.7	180	E	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	29.9	180	E	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	0.16	0.56	U	0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
100-44-7	Benzyl Chloride	0.090	0.47	UQ	0.47	2.59	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100	SDG No.:	Q2727
Lab Sample ID:	Q2727-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042791.D	1		07/31/25 12:03	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.7			65 - 135	107%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	141000		2.794			
540-36-3	1,4-Difluorobenzene	391000		3.968			
3114-55-4	Chlorobenzene-d5	347000		8.891			

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\VL073125\
 Data File : VL042791.D
 Acq On : 31 Jul 2025 12:03
 Operator : SY/MD
 Sample : Q2727-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AE073-1100

Quant Time: Aug 01 01:14:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

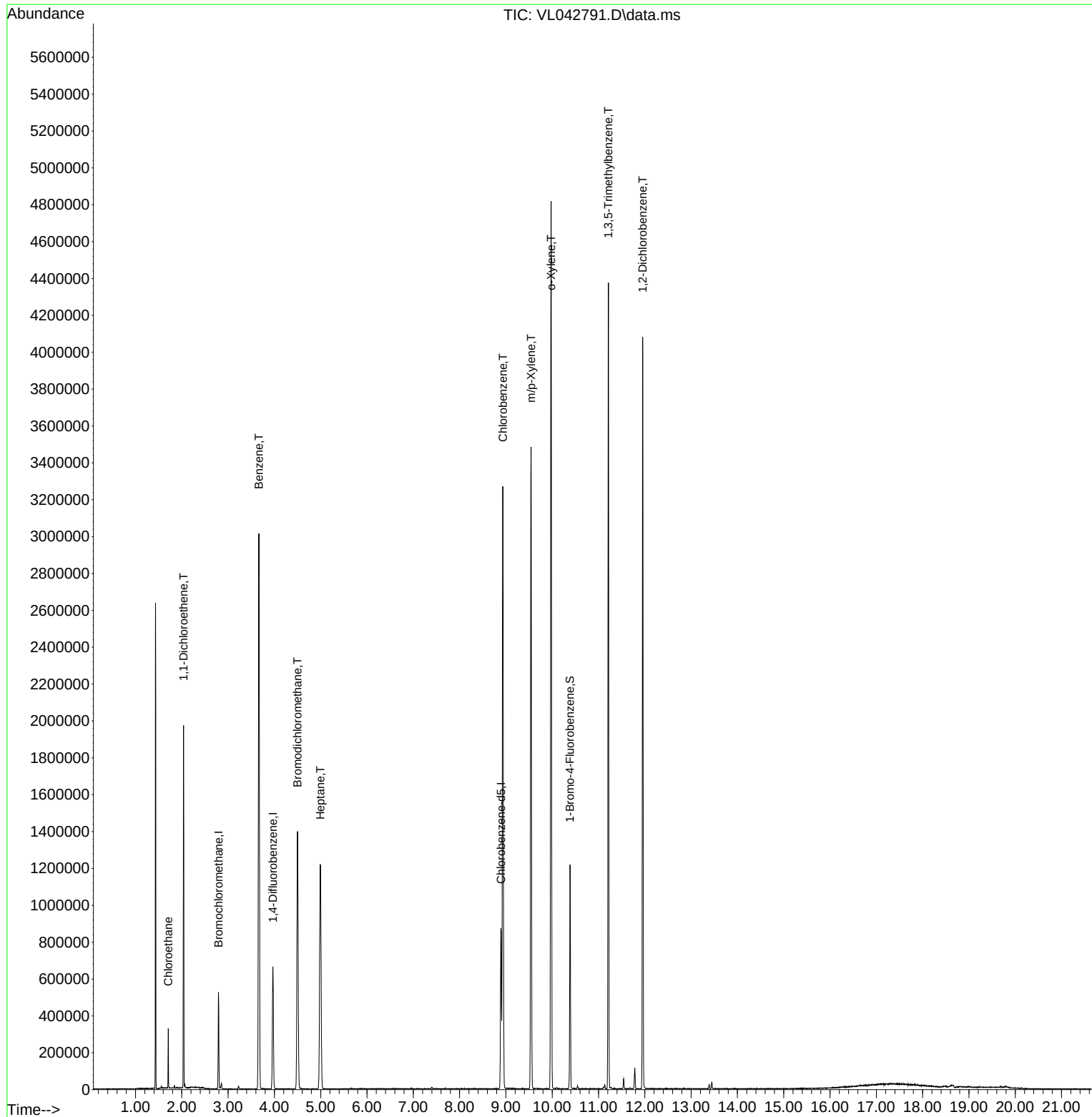
Internal Standards							
1) Bromochloromethane		2.794	49	141472	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		3.968	114	391365	10.000	ppbv	0.01
55) Chlorobenzene-d5		8.891	117	346534	10.000	ppbv	0.01
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.384	95	293791	10.705	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	= 107.100%	
Target Compounds							
							Qvalue
7) Chloroethane		1.709	64	86336	29.887	ppbv	99
10) Heptane		4.991	43	566179	23.711	ppbv	98
18) 1,1-Dichloroethene		2.039	96	258488	39.044	ppbv	94
36) Benzene		3.664	78	1865504	50.295	ppbv	98
42) Bromodichloromethane		4.499	83	846413	29.087	ppbv	96
57) Chlorobenzene		8.933	112	1308615	39.019	ppbv	97
59) m/p-Xylene		9.542	91	1577519	36.070	ppbv	100
60) o-Xylene		9.976	91	2173699	49.739	ppbv	97
73) 1,3,5-Trimethylbenzene		11.212	105	1577511	36.711	ppbv	97
77) 1,2-Dichlorobenzene		11.953	146	966653	29.926	ppbv	99

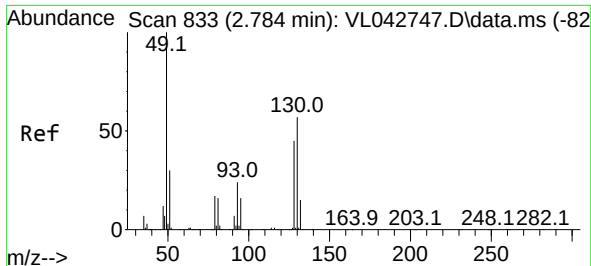
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
Data File : VL042791.D
Acq On : 31 Jul 2025 12:03
Operator : SY/MD
Sample : Q2727-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AE073-1100

Quant Time: Aug 01 01:14:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

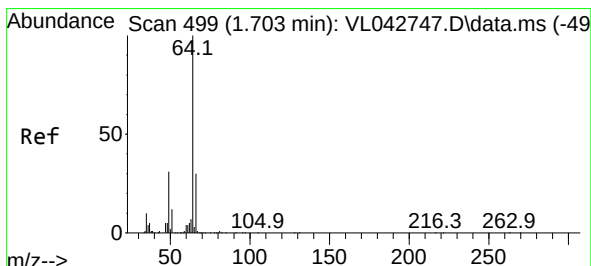
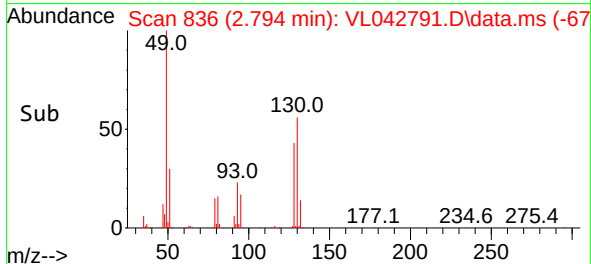
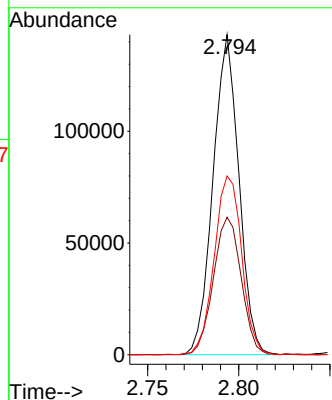
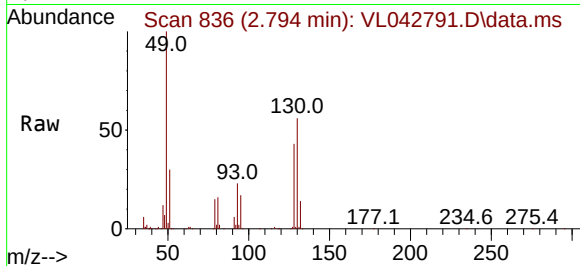




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

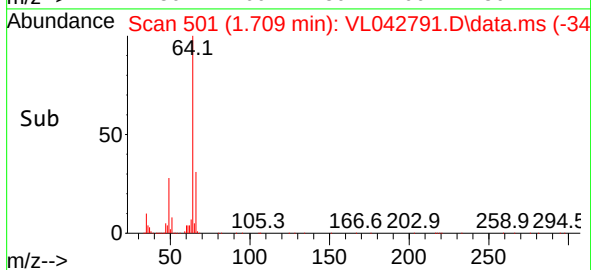
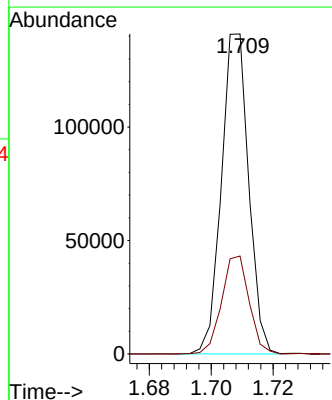
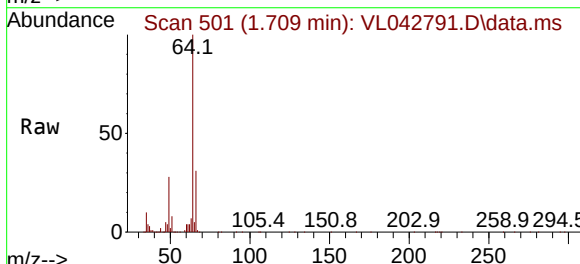
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100

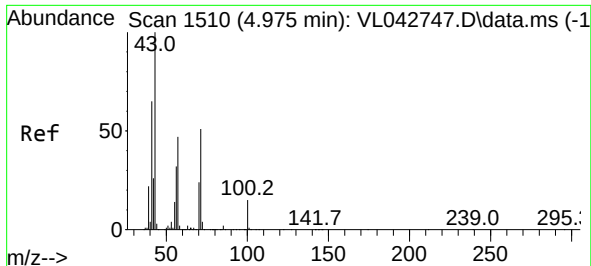
Tgt Ion: 49 Resp: 141472
Ion Ratio Lower Upper
49 100
128 46.2 23.6 71.0
130 59.3 30.3 90.8



#7
Chloroethane
Concen: 29.887 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.007 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

Tgt Ion: 64 Resp: 86336
Ion Ratio Lower Upper
64 100
66 30.6 24.1 36.1

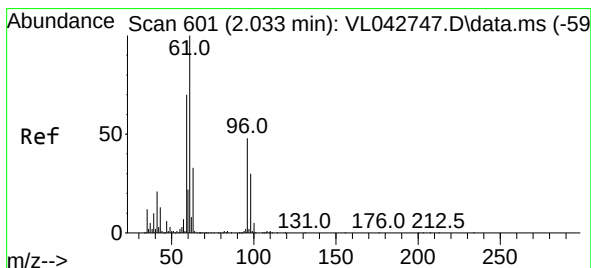
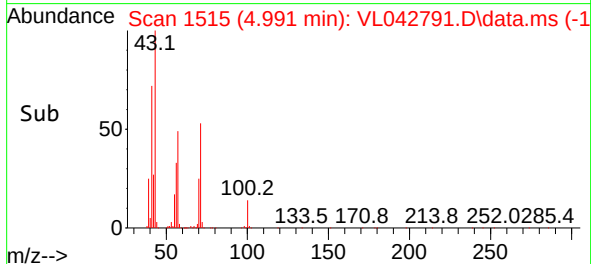
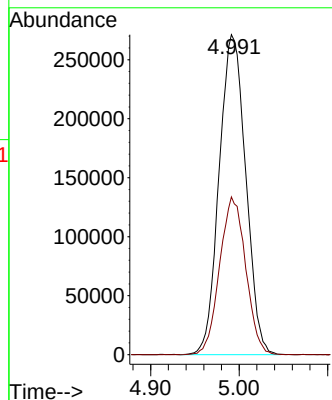
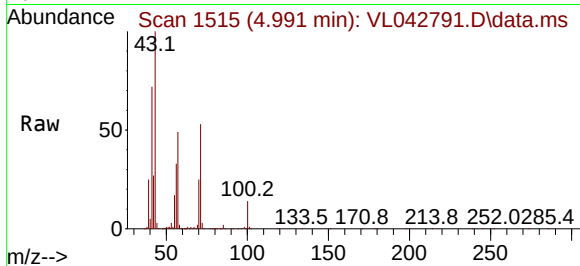




#10
Heptane
Concen: 23.711 ppbv
RT: 4.991 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

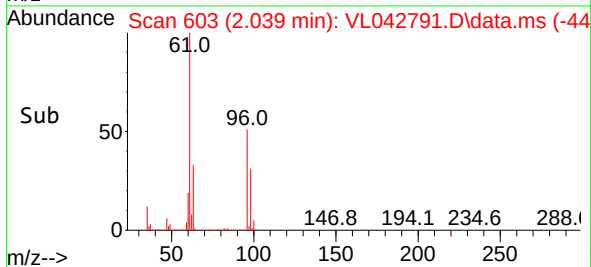
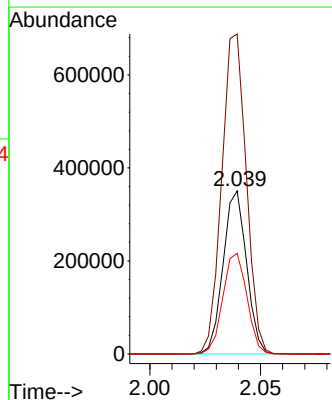
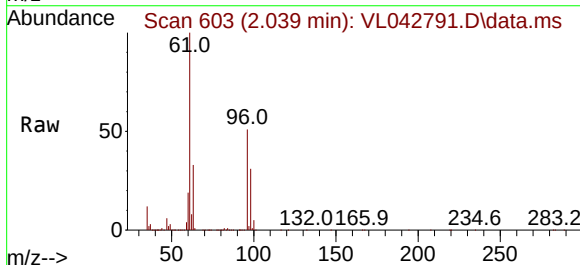
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100

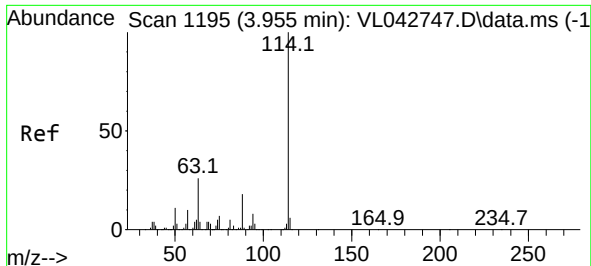
Tgt Ion: 43 Resp: 566179
Ion Ratio Lower Upper
43 100
57 48.3 39.9 59.9



#18
1,1-Dichloroethene
Concen: 39.044 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.007 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

Tgt Ion: 96 Resp: 258488
Ion Ratio Lower Upper
96 100
61 196.3 165.8 248.6
98 61.7 49.9 74.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.013 min

Lab File: VL042791.D

Acq: 31 Jul 2025 12:03

Instrument :

MSVOA_L

ClientSampleId :

AE073-1100

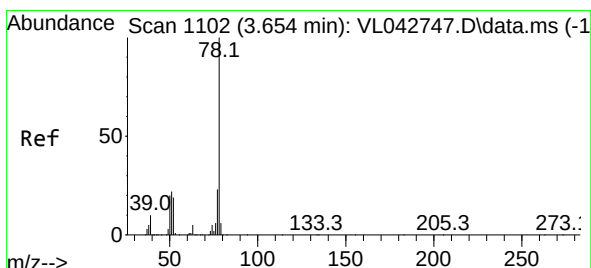
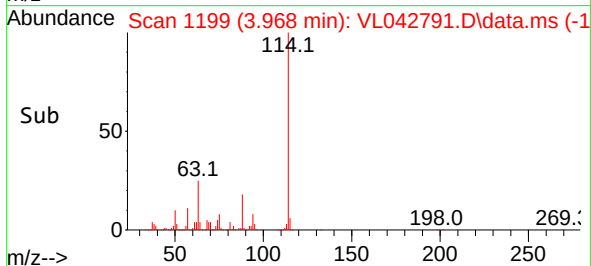
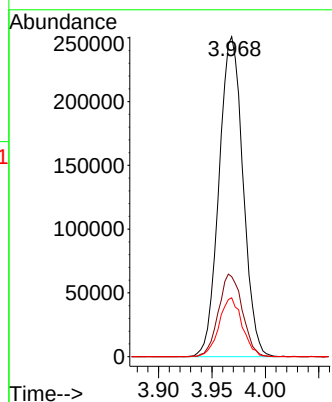
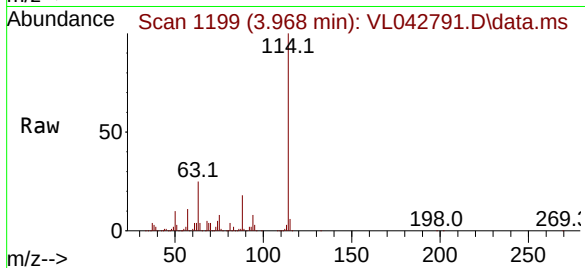
Tgt Ion:114 Resp: 391365

Ion Ratio Lower Upper

114 100

63 25.7 20.5 30.7

88 17.8 14.0 21.0



#36

Benzene

Concen: 50.295 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.010 min

Lab File: VL042791.D

Acq: 31 Jul 2025 12:03

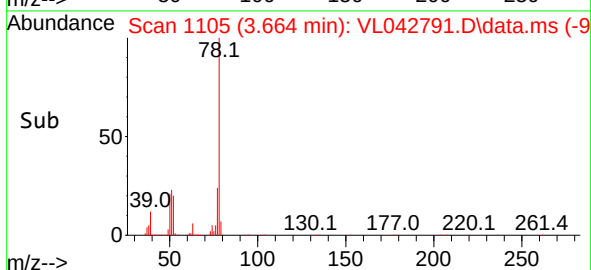
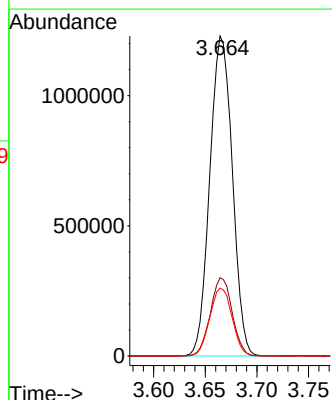
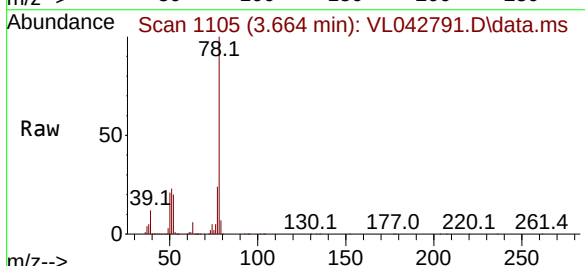
Tgt Ion: 78 Resp: 1865504

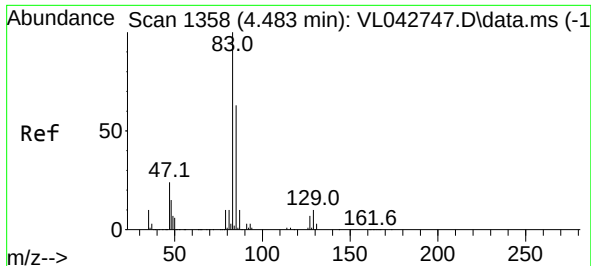
Ion Ratio Lower Upper

78 100

77 24.4 18.5 27.7

50 21.2 16.2 24.2

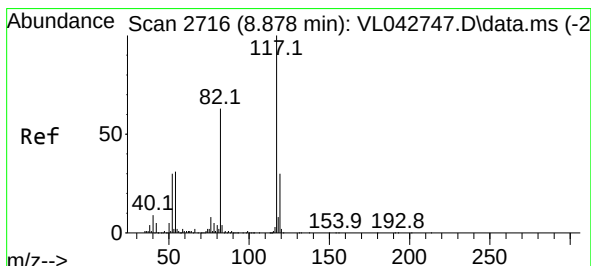
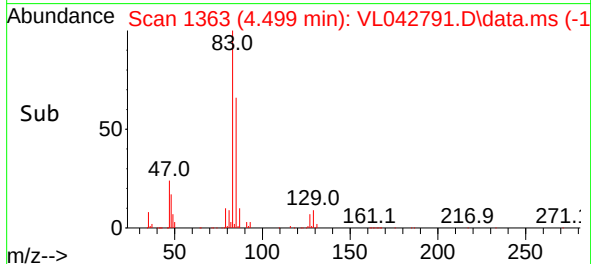
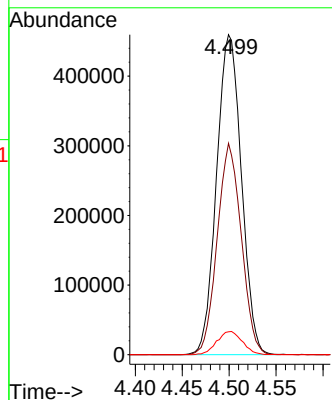
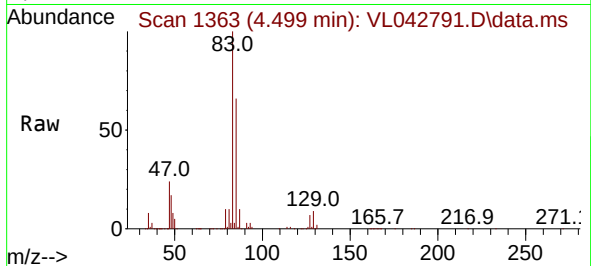




#42
Bromodichloromethane
Concen: 29.087 ppbv
RT: 4.499 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

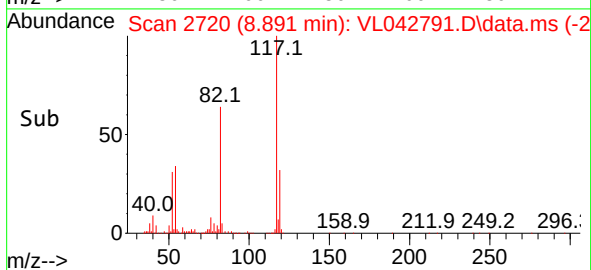
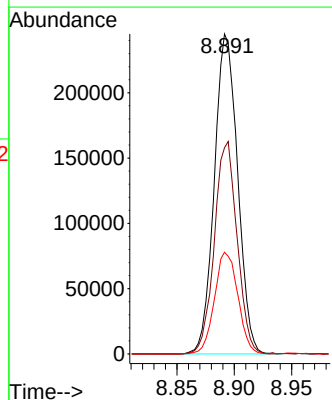
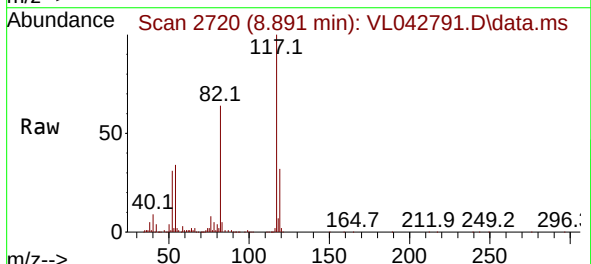
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100

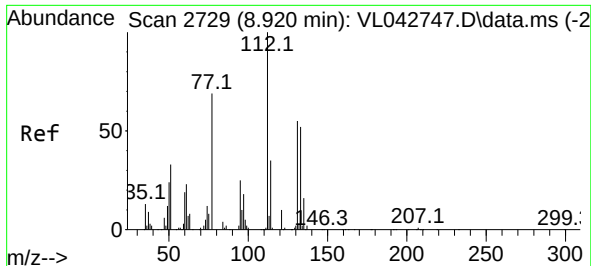
Tgt Ion: 83 Resp: 846413
Ion Ratio Lower Upper
83 100
85 66.0 50.2 75.4
127 7.2 5.4 8.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.013 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

Tgt Ion: 117 Resp: 346534
Ion Ratio Lower Upper
117 100
82 64.9 53.3 79.9
119 32.0 25.8 38.6

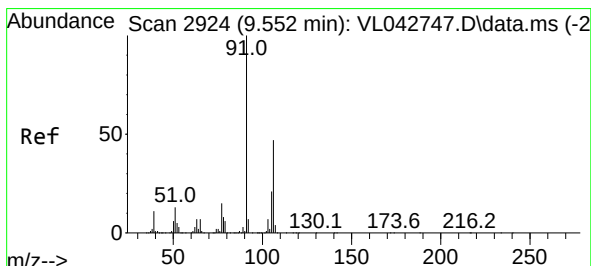
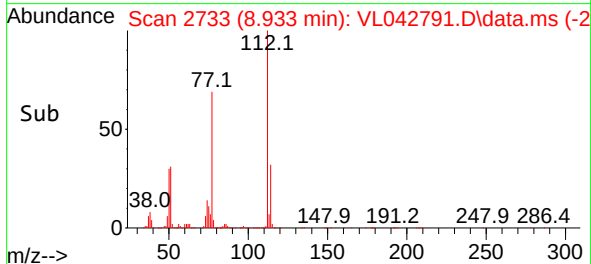
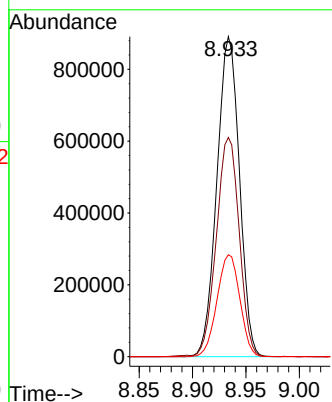
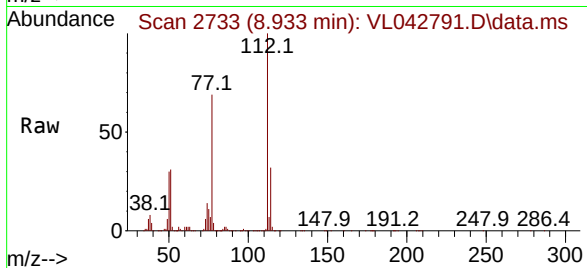




#57
Chlorobenzene
Concen: 39.019 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

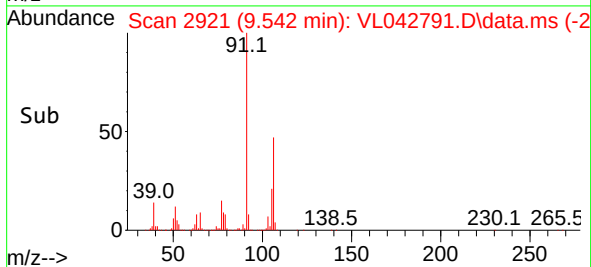
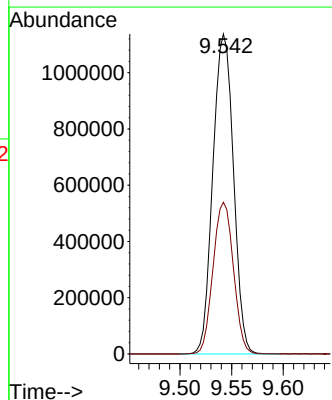
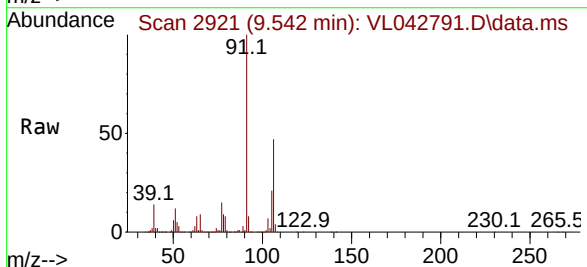
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100

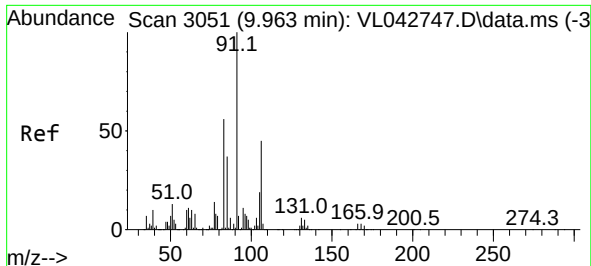
Tgt Ion:112 Resp: 1308615
Ion Ratio Lower Upper
112 100
77 68.4 56.4 84.6
114 31.8 31.2 38.2



#59
m/p-Xylene
Concen: 36.070 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. -0.010 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

Tgt Ion: 91 Resp: 1577519
Ion Ratio Lower Upper
91 100
106 46.9 37.4 56.2

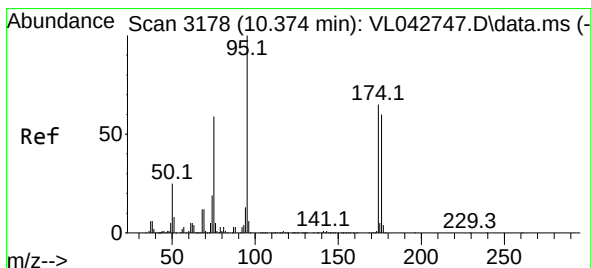
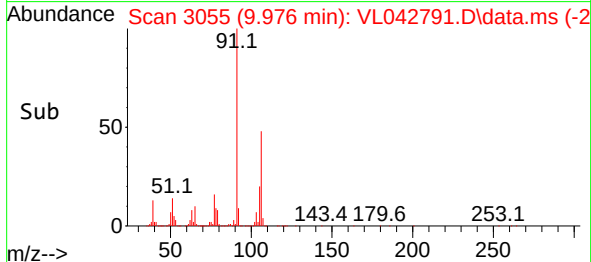
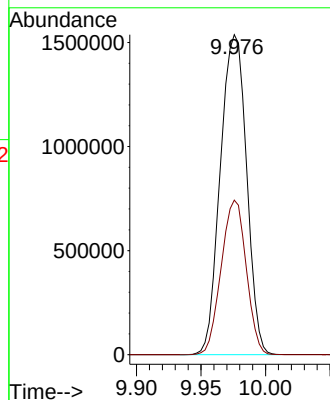
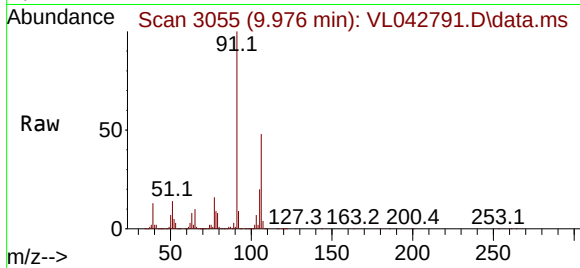




#60
o-Xylene
Concen: 49.739 ppbv
RT: 9.976 min Scan# 3051
Delta R.T. 0.013 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

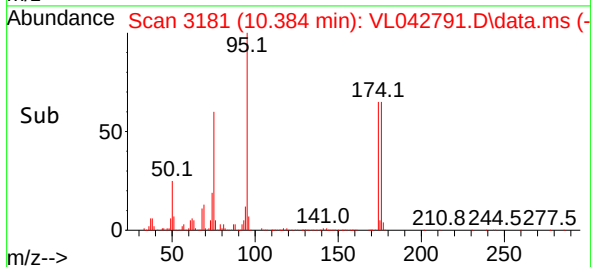
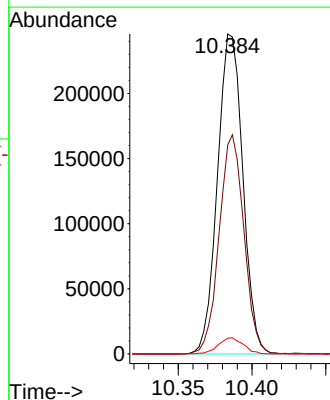
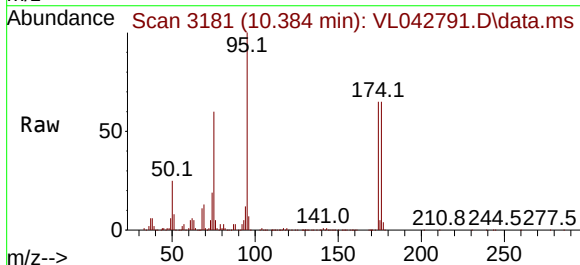
Instrument :
MSVOA_1
ClientSampleId :
AE073-1100

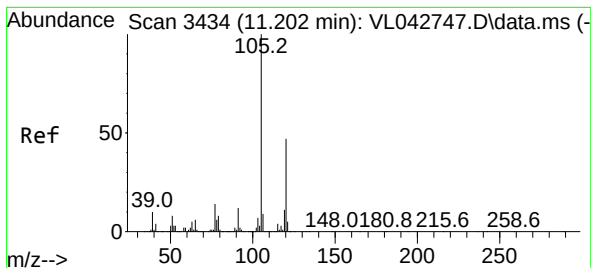
Tgt Ion: 91 Resp: 2173699
Ion Ratio Lower Upper
91 100
106 46.1 22.0 66.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.705 ppbv
RT: 10.384 min Scan# 3181
Delta R.T. 0.010 min
Lab File: VL042791.D
Acq: 31 Jul 2025 12:03

Tgt Ion: 95 Resp: 293791
Ion Ratio Lower Upper
95 100
174 66.9 53.8 80.6
175 5.0 4.0 6.0





#73

1,3,5-Trimethylbenzene

Concen: 36.711 ppbv

RT: 11.212 min Scan# 34

Delta R.T. 0.010 min

Lab File: VL042791.D

Acq: 31 Jul 2025 12:03

Instrument :

MSVOA_L

ClientSampleId :

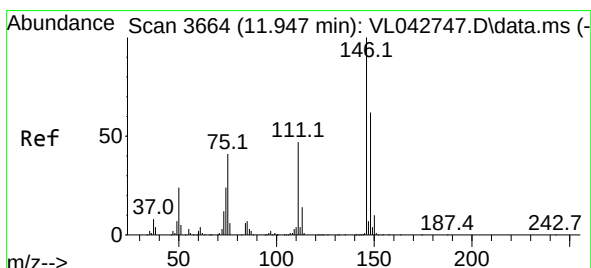
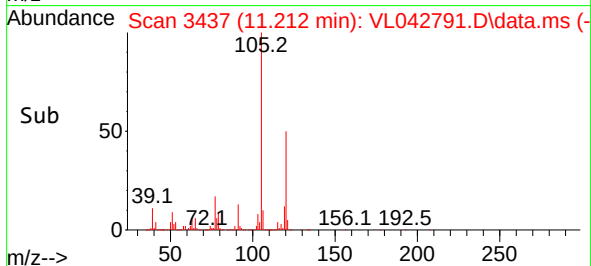
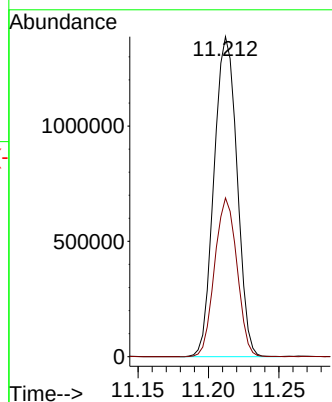
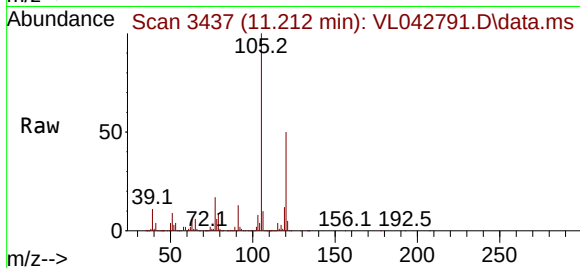
AE073-1100

Tgt Ion:105 Resp: 1577511

Ion Ratio Lower Upper

105 100

120 49.6 37.8 56.8



#77

1,2-Dichlorobenzene

Concen: 29.926 ppbv

RT: 11.953 min Scan# 3666

Delta R.T. 0.007 min

Lab File: VL042791.D

Acq: 31 Jul 2025 12:03

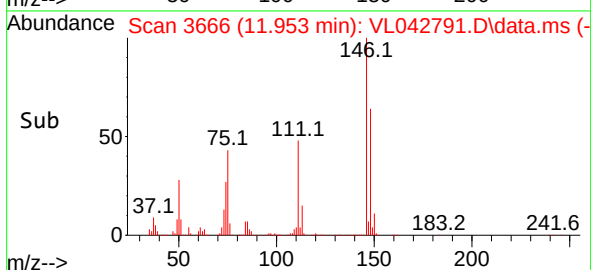
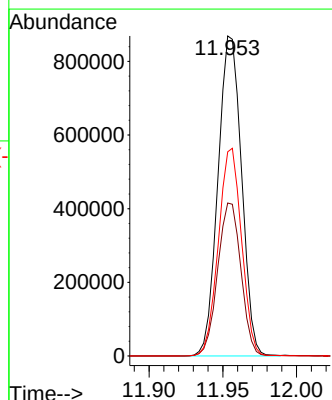
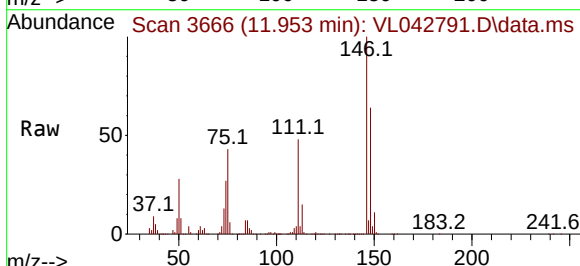
Tgt Ion:146 Resp: 966653

Ion Ratio Lower Upper

146 100

111 47.2 23.7 71.1

148 63.8 32.6 97.7



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100DL	SDG No.:	Q2727
Lab Sample ID:	Q2727-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042792.D	2		07/31/25 12:39	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-45-6	Chlorodifluoromethane	0.24	0.85	UD	0.85	3.54	ug/m3
75-71-8	Dichlorodifluoromethane	0.22	1.09	UD	1.09	4.94	ug/m3
64-17-5	Ethanol	0.64	1.21	UD	1.21	1.88	ug/m3
74-87-3	Chloromethane	0.20	0.41	UD	0.41	2.07	ug/m3
75-01-4	Vinyl Chloride	0.050	0.13	UD	0.13	0.15	ug/m3
141-78-6	Ethyl Acetate	0.24	0.95	UD	0.95	3.97	ug/m3
74-83-9	Bromomethane	0.15	0.58	UD	0.58	3.88	ug/m3
75-00-3	Chloroethane	29.1	76.8	D	0.79	2.64	ug/m3
109-99-9	Tetrahydrofuran	0.16	0.47	UD	0.47	2.95	ug/m3
75-69-4	Trichlorofluoromethane	0.34	1.91	UD	1.91	5.62	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	UD	2.15	7.66	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	UD	2.10	6.99	ug/m3
593-60-2	Bromoethene	0.40	1.75	UD	1.75	4.37	ug/m3
115-07-1	Propene	0.15	0.26	UD	0.26	1.72	ug/m3
75-65-0	tert-Butyl alcohol	0.32	0.97	UD	0.97	3.03	ug/m3
142-82-5	Heptane	23.3	95.5	D	1.39	4.10	ug/m3
67-63-0	Isopropyl Alcohol	0.46	1.13	UD	1.13	2.46	ug/m3
75-35-4	1,1-Dichloroethene	39.1	155	ED	1.19	3.96	ug/m3
67-64-1	Acetone	0.36	0.86	UD	0.86	2.38	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	UD	0.50	3.11	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	UD	1.66	3.61	ug/m3
75-09-2	Methylene Chloride	0.46	1.60	UD	1.60	3.47	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	UD	0.95	3.96	ug/m3
108-05-4	Vinyl Acetate	0.52	1.87	UD	1.87	3.60	ug/m3
75-34-3	1,1-Dichloroethane	0.26	1.05	UD	1.05	4.05	ug/m3
110-82-7	Cyclohexane	0.44	1.51	UD	1.51	3.44	ug/m3
78-93-3	2-Butanone	0.11	0.32	UD	0.32	2.95	ug/m3
56-23-5	Carbon Tetrachloride	0.050	0.31	UD	0.31	0.38	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	UD	0.79	3.96	ug/m3
67-66-3	Chloroform	0.19	0.93	UD	0.93	4.88	ug/m3
71-55-6	1,1,1-Trichloroethane	0.030	0.16	UD	0.16	0.33	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	UD	1.31	4.67	ug/m3
71-43-2	Benzene	54.7	175	ED	0.51	3.19	ug/m3
107-06-2	1,2-Dichloroethane	0.19	0.77	UD	0.77	4.05	ug/m3
79-01-6	Trichloroethene	0.050	0.27	UD	0.27	0.32	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100DL	SDG No.:	Q2727
Lab Sample ID:	Q2727-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042792.D	2		07/31/25 12:39	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
78-87-5	1,2-Dichloropropane	0.26	1.20	UD	1.20	4.62	ug/m3
75-27-4	Bromodichloromethane	29.8	200	D	0.87	6.70	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.19	0.78	UD	0.78	4.10	ug/m3
108-88-3	Toluene	0.32	1.21	UD	1.21	3.77	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	UD	1.36	4.54	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	UD	1.00	4.54	ug/m3
79-00-5	1,1,2-Trichloroethane	0.16	0.87	UD	0.87	5.46	ug/m3
591-78-6	2-Hexanone	0.22	0.90	UD	0.90	4.09	ug/m3
124-48-1	Dibromochloromethane	0.17	1.45	UD	1.45	8.52	ug/m3
106-93-4	1,2-Dibromoethane	0.17	1.31	UD	1.31	1.54	ug/m3
127-18-4	Tetrachloroethene	0.030	0.20	UD	0.20	0.41	ug/m3
108-90-7	Chlorobenzene	42.0	193	ED	0.69	4.61	ug/m3
100-41-4	Ethyl Benzene	0.38	1.65	UD	1.65	4.34	ug/m3
179601-23-1	m/p-Xylene	38.3	166	D	3.56	8.69	ug/m3
1330-20-7	Total Xylenes	94.5	410	D	5.39	13.0	ug/m3
95-47-6	o-Xylene	56.2	244	ED	1.82	4.34	ug/m3
100-42-5	Styrene	0.32	1.36	UD	1.36	4.26	ug/m3
75-25-2	Bromoform	0.10	1.03	UD	1.03	10.3	ug/m3
98-82-8	Isopropylbenzene	0.32	1.57	UD	1.57	4.92	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	UD	0.27	0.41	ug/m3
95-49-8	2-Chlorotoluene	0.34	1.76	UD	1.76	5.18	ug/m3
108-67-8	1,3,5-Trimethylbenzene	39.2	193	ED	1.77	4.92	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	UD	1.77	4.92	ug/m3
541-73-1	1,3-Dichlorobenzene	0.11	0.66	UD	0.66	6.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.26	1.56	UD	1.56	6.01	ug/m3
95-50-1	1,2-Dichlorobenzene	31.1	187	ED	1.56	6.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	UD	3.12	7.42	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	UD	2.77	10.7	ug/m3
106-99-0	1,3-Butadiene	0.10	0.22	UD	0.22	2.21	ug/m3
91-20-3	Naphthalene	0.030	0.16	UD	0.16	1.05	ug/m3
622-96-8	4-Ethyltoluene	0.42	2.06	UD	2.06	4.92	ug/m3
110-54-3	Hexane	0.32	1.13	UD	1.13	3.52	ug/m3
107-05-1	Allyl Chloride	0.22	0.69	UD	0.69	3.13	ug/m3
123-91-1	1,4-Dioxane	0.44	1.59	UD	1.59	3.60	ug/m3
100-44-7	Benzyl Chloride	0.18	0.93	UDQ	0.93	5.18	ug/m3
80-62-6	Methyl Methacrylate	0.28	1.15	UD	1.15	4.09	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100DL	SDG No.:	Q2727
Lab Sample ID:	Q2727-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042792.D	2		07/31/25 12:39	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			65 - 135	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	137000		2.797			
540-36-3	1,4-Difluorobenzene	371000		3.968			
3114-55-4	Chlorobenzene-d5	325000		8.898			

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\VL073125\
 Data File : VL042792.D
 Acq On : 31 Jul 2025 12:39
 Operator : SY/MD
 Sample : Q2727-01DL 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AE073-1100DL

Quant Time: Aug 01 01:14:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

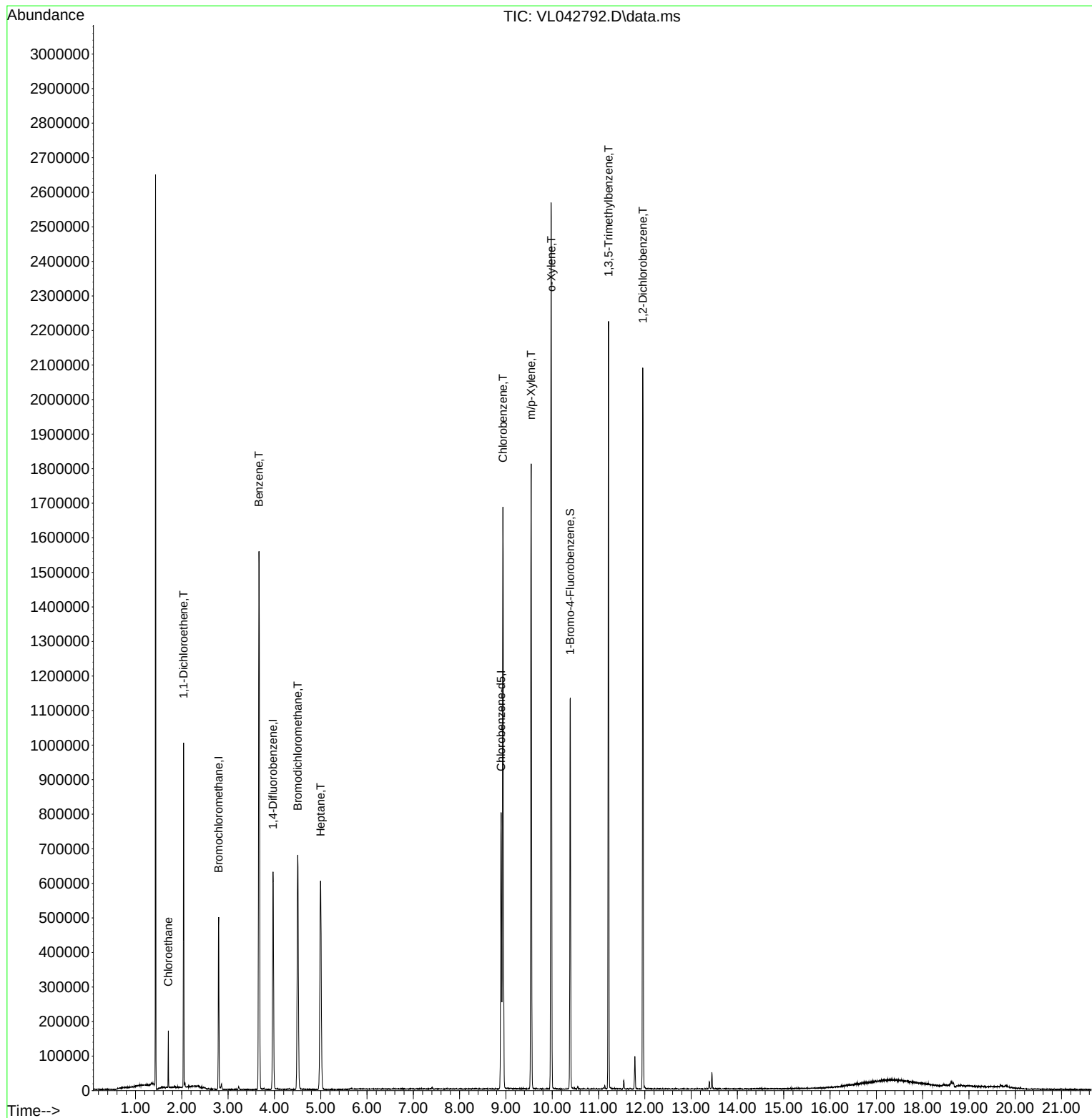
Internal Standards							
1) Bromochloromethane		2.797	49	136777	10.000	ppbv	0.01
33) 1,4-Difluorobenzene		3.968	114	371224	10.000	ppbv	0.01
55) Chlorobenzene-d5		8.898	117	324625	10.000	ppbv	0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.387	95	273294	10.631	ppbv	0.01
Spiked Amount		10.000	Range	65 - 135	Recovery	= 106.300%	
Target Compounds							
							Qvalue
7) Chloroethane		1.709	64	40627	14.547	ppbv	99
10) Heptane		4.994	43	268880	11.647	ppbv	97
18) 1,1-Dichloroethene		2.039	96	125059	19.538	ppbv	98
36) Benzene		3.667	78	961979	27.343	ppbv	99
42) Bromodichloromethane		4.506	83	411940	14.924	ppbv	98
57) Chlorobenzene		8.936	112	660376	21.020	ppbv	96
59) m/p-Xylene		9.545	91	785341	19.169	ppbv	98
60) o-Xylene		9.979	91	1150446	28.101	ppbv	100
73) 1,3,5-Trimethylbenzene		11.215	105	788778	19.595	ppbv	100
77) 1,2-Dichlorobenzene		11.956	146	471076	15.568	ppbv	99

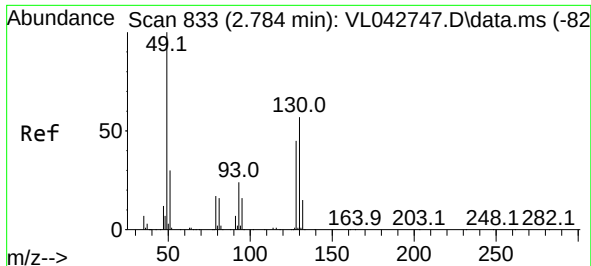
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
Data File : VL042792.D
Acq On : 31 Jul 2025 12:39
Operator : SY/MD
Sample : Q2727-01DL 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL

Quant Time: Aug 01 01:14:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

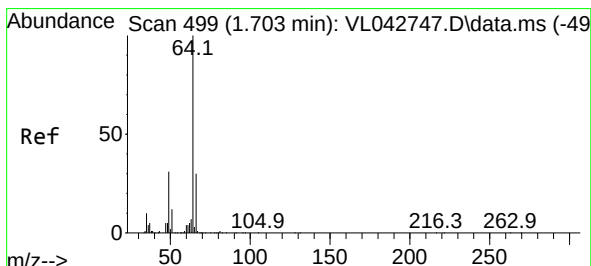
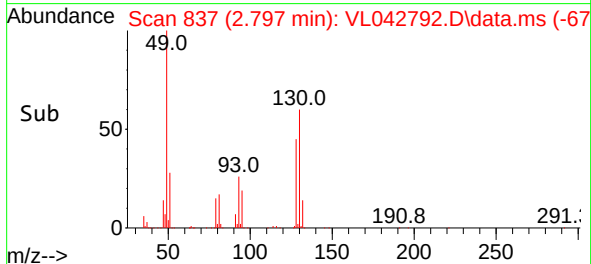
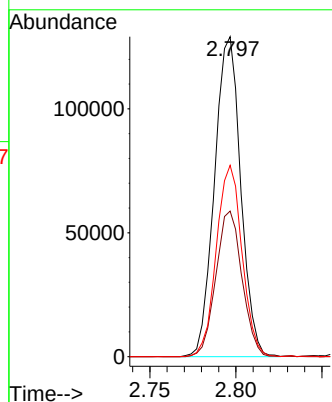
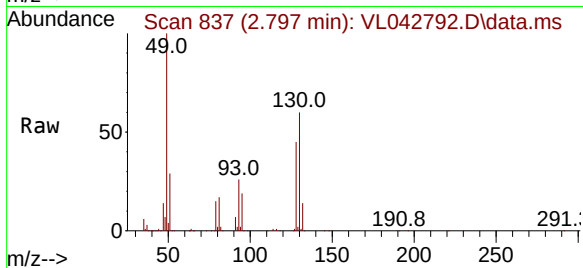




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

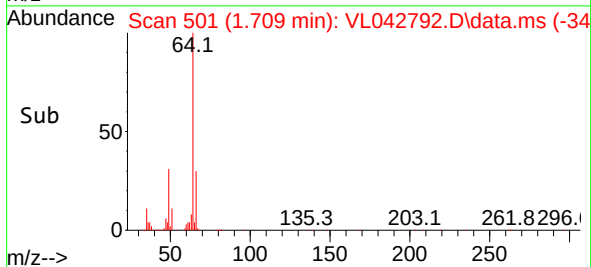
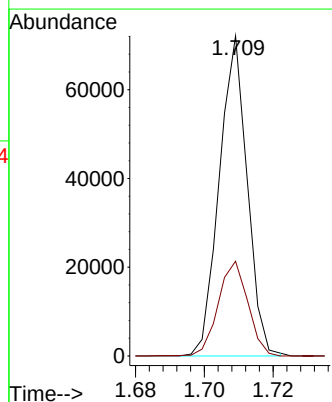
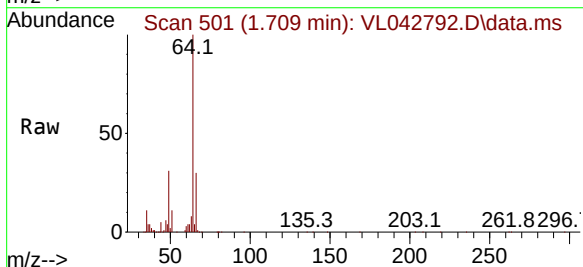
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL

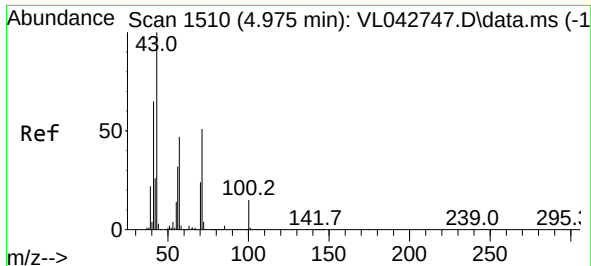
Tgt Ion: 49 Resp: 136777
Ion Ratio Lower Upper
49 100
128 45.5 23.6 71.0
130 58.8 30.3 90.8



#7
Chloroethane
Concen: 14.547 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.006 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

Tgt Ion: 64 Resp: 40627
Ion Ratio Lower Upper
64 100
66 29.6 24.1 36.1

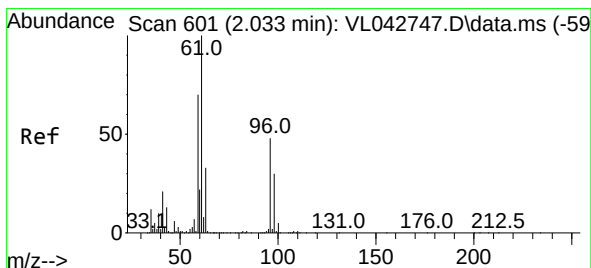
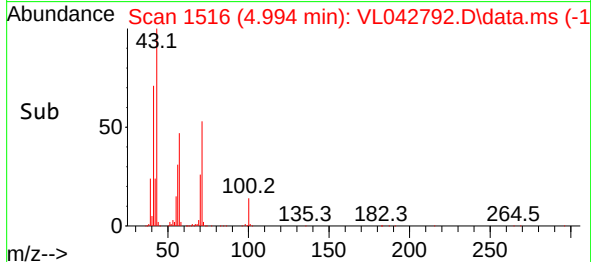
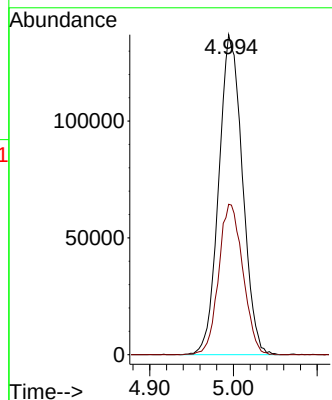
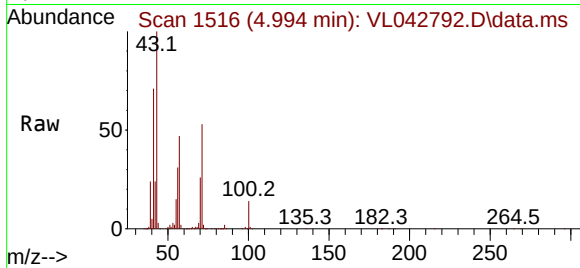




#10
Heptane
Concen: 11.647 ppbv
RT: 4.994 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

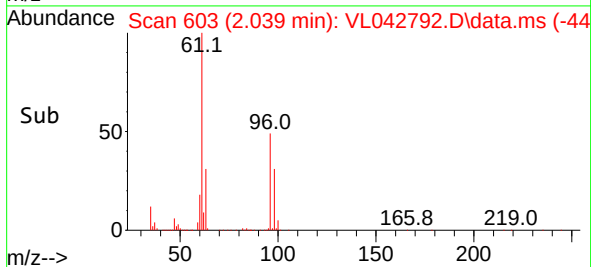
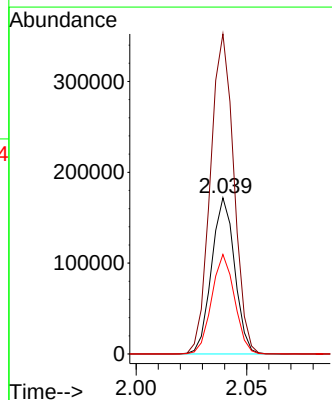
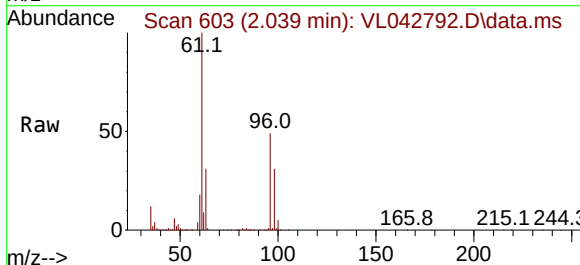
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL

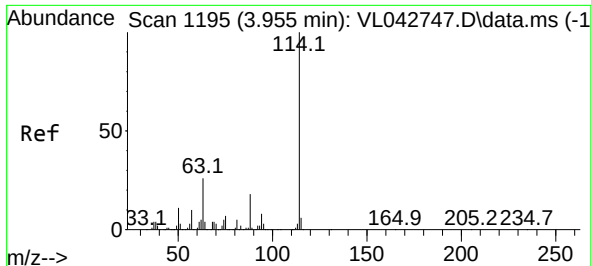
Tgt Ion: 43 Resp: 268880
Ion Ratio Lower Upper
43 100
57 48.0 39.9 59.9



#18
1,1-Dichloroethene
Concen: 19.538 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.006 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

Tgt Ion: 96 Resp: 125059
Ion Ratio Lower Upper
96 100
61 204.8 165.8 248.6
98 63.7 49.9 74.9

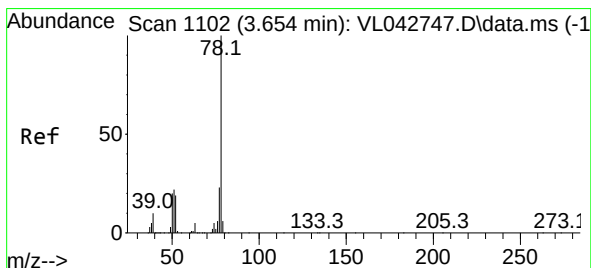
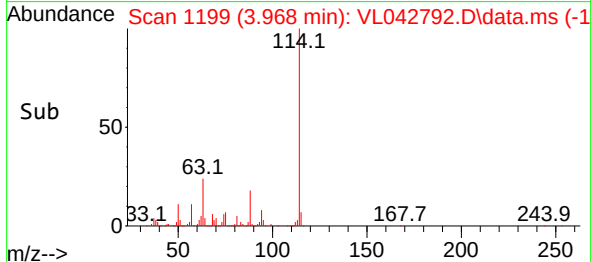
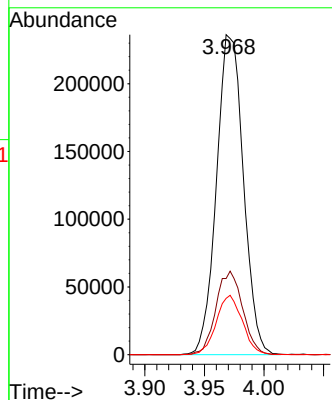
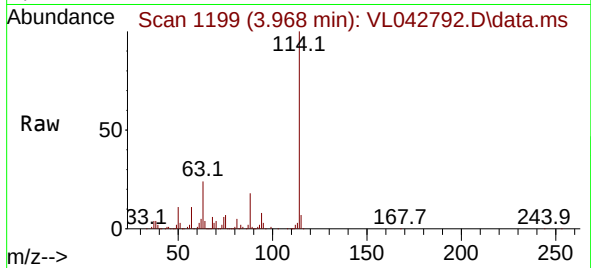




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1195
Delta R.T. 0.013 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

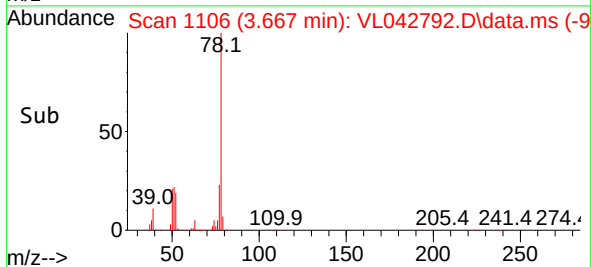
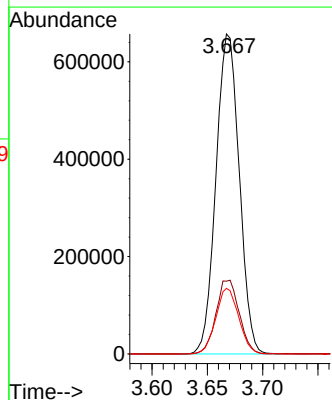
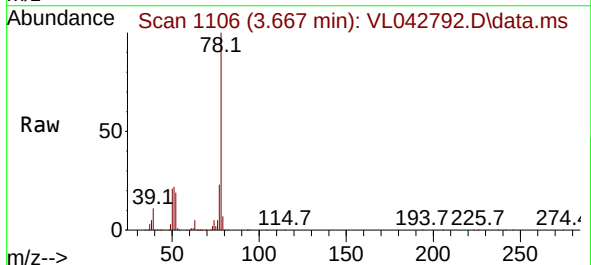
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL

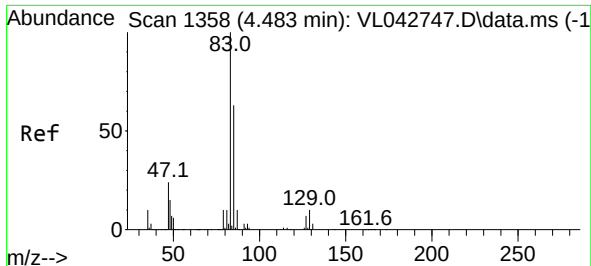
Tgt Ion:114 Resp: 371224
Ion Ratio Lower Upper
114 100
63 25.9 20.5 30.7
88 18.0 14.0 21.0



#36
Benzene
Concen: 27.343 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.013 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

Tgt Ion: 78 Resp: 961979
Ion Ratio Lower Upper
78 100
77 22.8 18.5 27.7
50 20.5 16.2 24.2

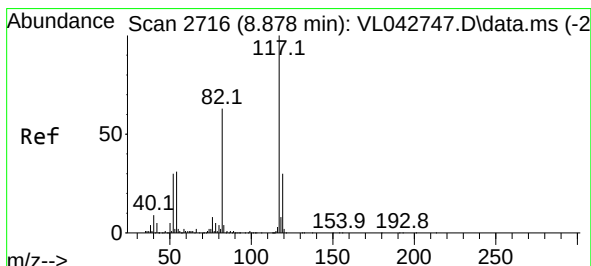
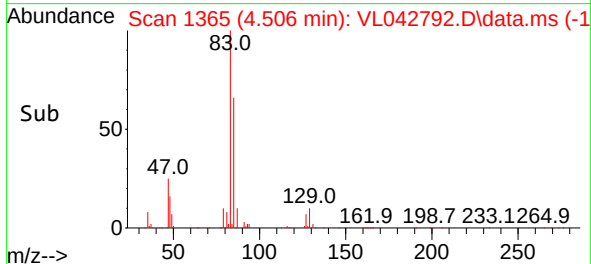
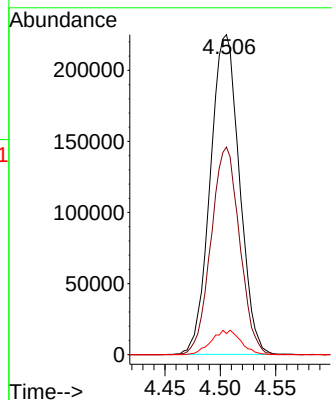
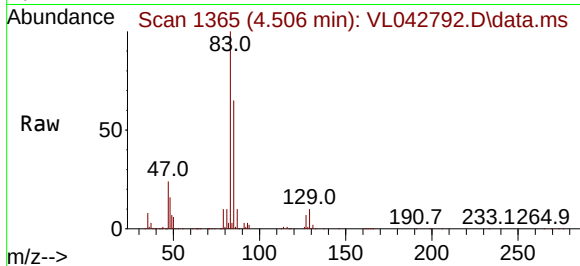




#42
Bromodichloromethane
Concen: 14.924 ppbv
RT: 4.506 min Scan# 11
Delta R.T. 0.022 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

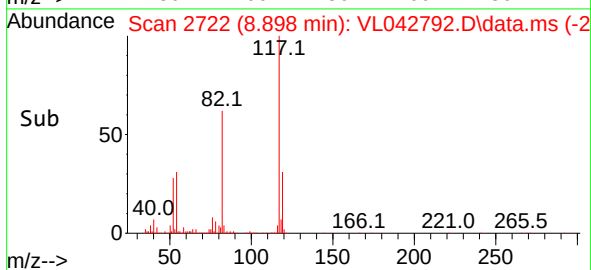
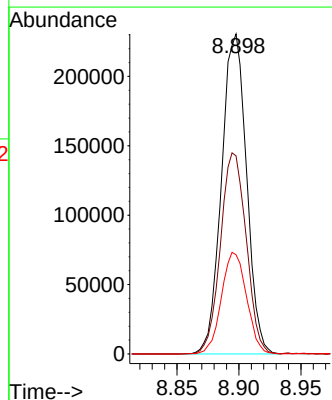
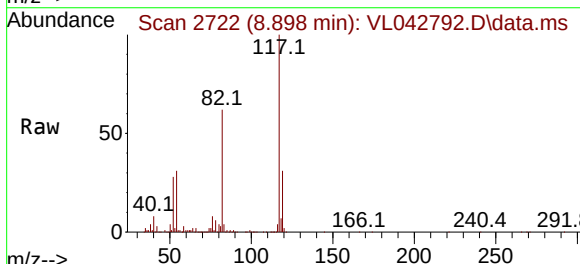
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL

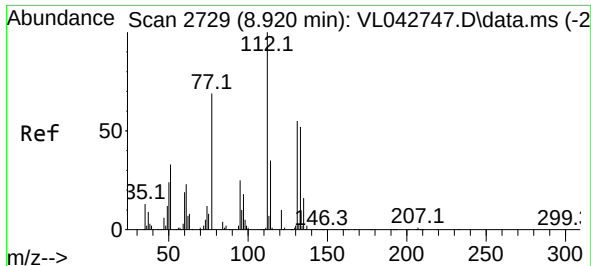
Tgt Ion: 83 Resp: 411940
Ion Ratio Lower Upper
83 100
85 64.8 50.2 75.4
127 6.6 5.4 8.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.019 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

Tgt Ion: 117 Resp: 324625
Ion Ratio Lower Upper
117 100
82 64.8 53.3 79.9
119 32.1 25.8 38.6

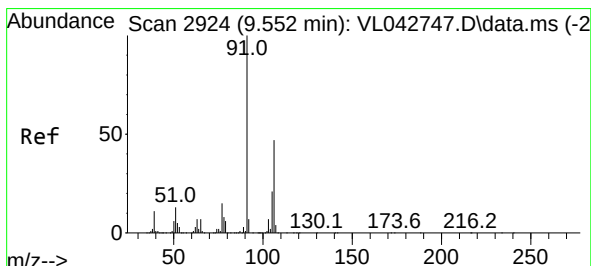
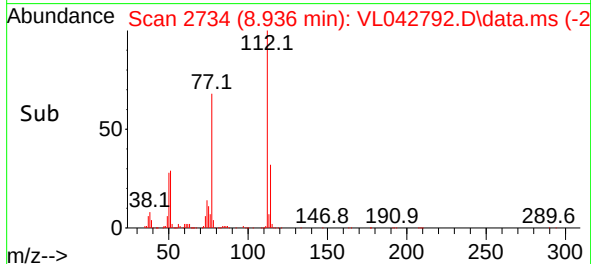
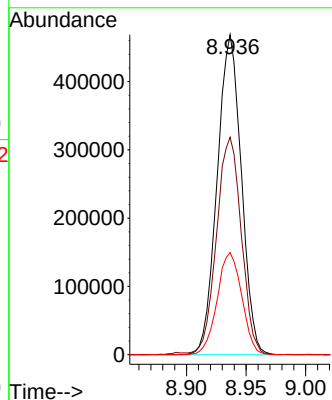
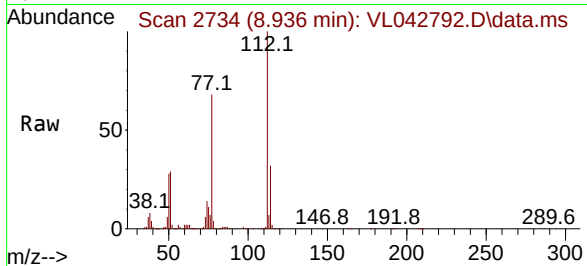




#57
Chlorobenzene
Concen: 21.020 ppbv
RT: 8.936 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

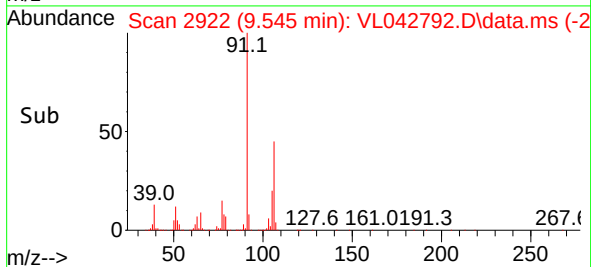
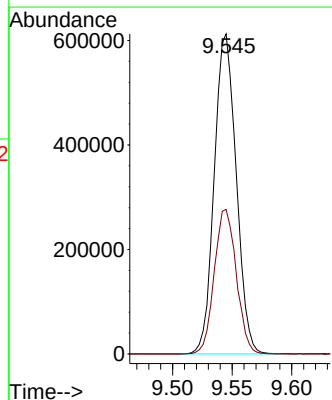
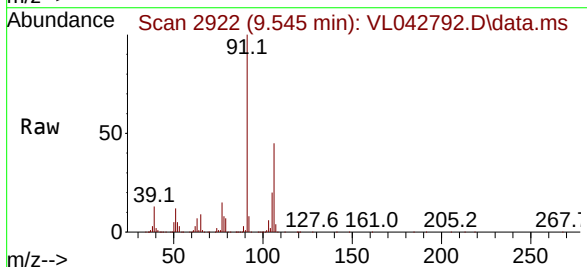
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL

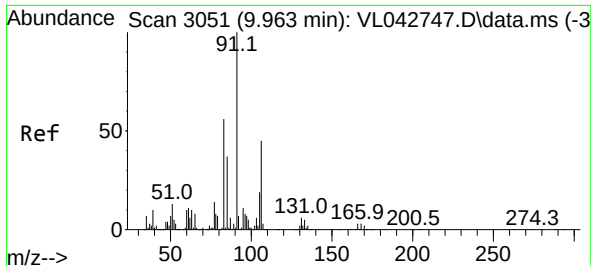
Tgt Ion:112 Resp: 660376
Ion Ratio Lower Upper
112 100
77 67.9 56.4 84.6
114 31.9 31.2 38.2



#59
m/p-Xylene
Concen: 19.169 ppbv
RT: 9.545 min Scan# 2922
Delta R.T. -0.007 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

Tgt Ion: 91 Resp: 785341
Ion Ratio Lower Upper
91 100
106 45.3 37.4 56.2

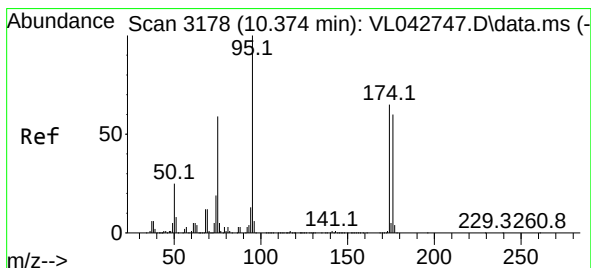
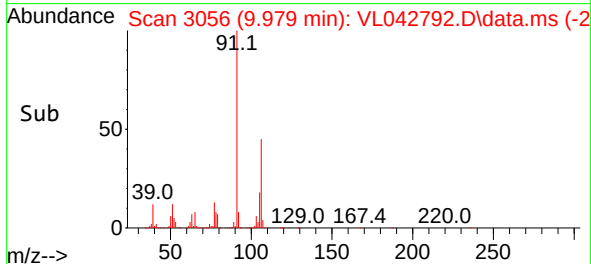
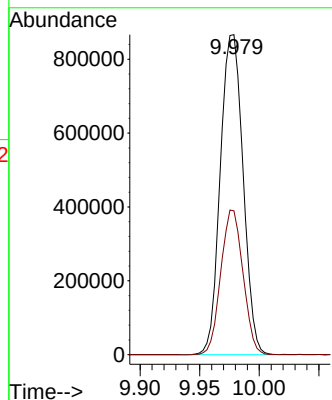
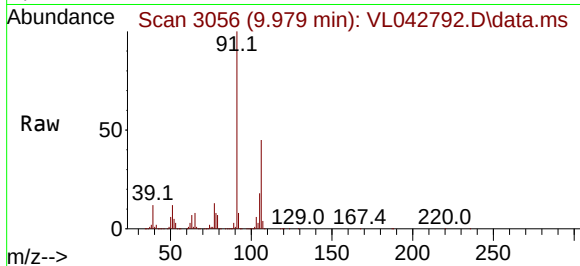




#60
o-Xylene
Concen: 28.101 ppbv
RT: 9.979 min Scan# 3051
Delta R.T. 0.016 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

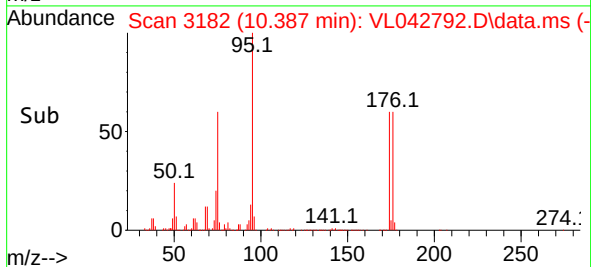
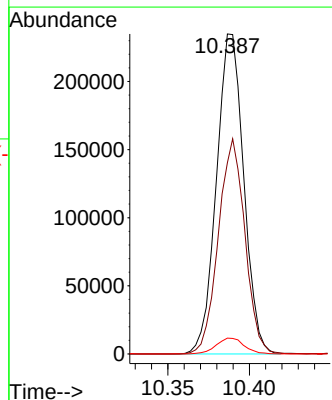
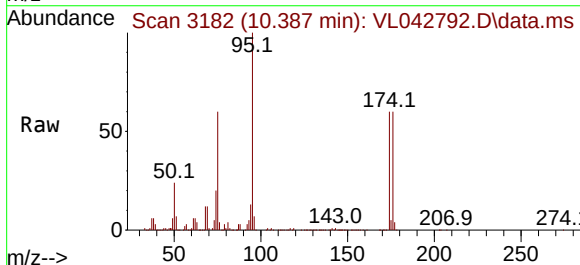
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL

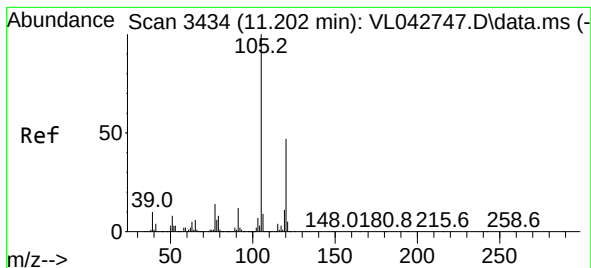
Tgt Ion: 91 Resp: 1150446
Ion Ratio Lower Upper
91 100
106 44.1 22.0 66.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.631 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.013 min
Lab File: VL042792.D
Acq: 31 Jul 2025 12:39

Tgt Ion: 95 Resp: 273294
Ion Ratio Lower Upper
95 100
174 65.4 53.8 80.6
175 5.1 4.0 6.0





#73

1,3,5-Trimethylbenzene

Concen: 19.595 ppbv

RT: 11.215 min Scan# 3434

Delta R.T. 0.013 min

Lab File: VL042792.D

Acq: 31 Jul 2025 12:39

Instrument :

MSVOA_L

ClientSampleId :

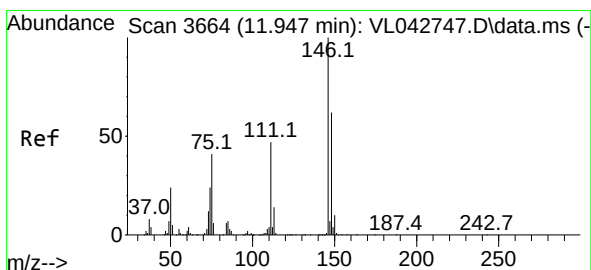
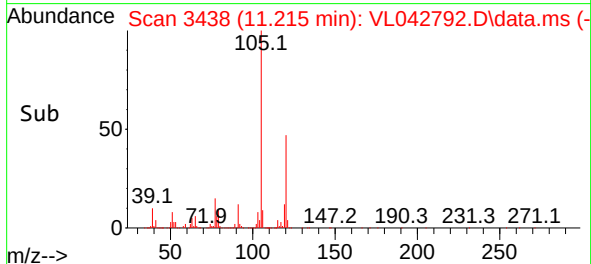
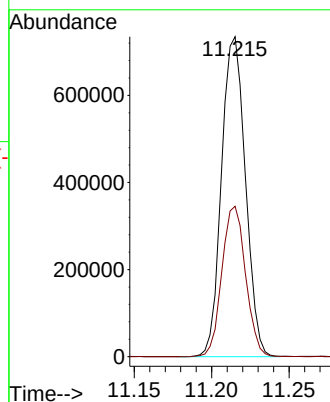
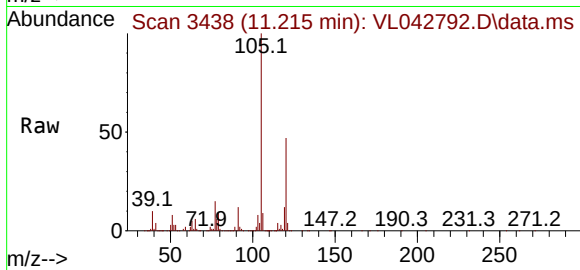
AE073-1100DL

Tgt Ion:105 Resp: 788778

Ion Ratio Lower Upper

105 100

120 47.0 37.8 56.8



#77

1,2-Dichlorobenzene

Concen: 15.568 ppbv

RT: 11.956 min Scan# 3667

Delta R.T. 0.010 min

Lab File: VL042792.D

Acq: 31 Jul 2025 12:39

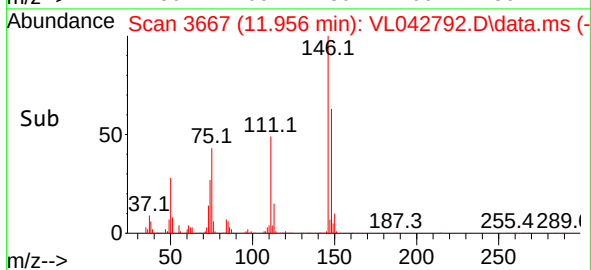
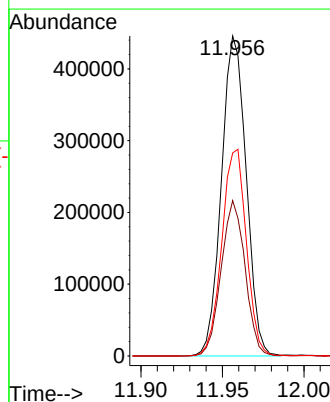
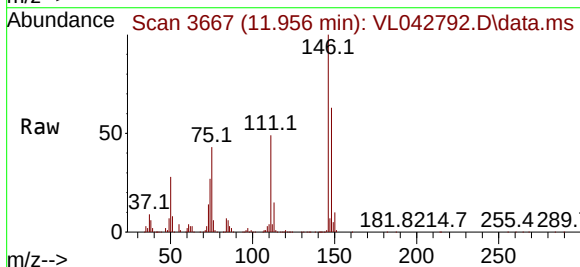
Tgt Ion:146 Resp: 471076

Ion Ratio Lower Upper

146 100

111 47.1 23.7 71.1

148 64.3 32.6 97.7



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100DL2	SDG No.:	Q2727
Lab Sample ID:	Q2727-01DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042852.D	4		08/13/25 15:10	VL081325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-45-6	Chlorodifluoromethane	0.48	1.70	UD	1.70	7.07	ug/m3
75-71-8	Dichlorodifluoromethane	0.44	2.18	UD	2.18	9.89	ug/m3
64-17-5	Ethanol	1.30	2.45	UD	2.45	3.77	ug/m3
74-87-3	Chloromethane	0.39	0.81	UD	0.81	4.13	ug/m3
75-01-4	Vinyl Chloride	0.10	0.26	UD	0.26	0.31	ug/m3
141-78-6	Ethyl Acetate	0.48	1.90	UD	1.90	7.93	ug/m3
74-83-9	Bromomethane	0.31	1.20	UD	1.20	7.77	ug/m3
75-00-3	Chloroethane	28.1	74.2	D	1.58	5.28	ug/m3
109-99-9	Tetrahydrofuran	0.32	0.94	UD	0.94	5.90	ug/m3
75-69-4	Trichlorofluoromethane	0.68	3.82	UD	3.82	11.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.56	4.29	UD	4.29	15.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.60	4.19	UD	4.19	14.0	ug/m3
593-60-2	Bromoethene	0.80	3.50	UD	3.50	8.74	ug/m3
115-07-1	Propene	0.31	0.53	UD	0.53	3.44	ug/m3
75-65-0	tert-Butyl alcohol	0.64	1.94	UD	1.94	6.06	ug/m3
142-82-5	Heptane	19.2	78.7	D	2.79	8.20	ug/m3
67-63-0	Isopropyl Alcohol	0.92	2.26	UD	2.26	4.92	ug/m3
75-35-4	1,1-Dichloroethene	39.0	155	D	2.38	7.93	ug/m3
67-64-1	Acetone	0.72	1.71	UD	1.71	4.75	ug/m3
75-15-0	Carbon Disulfide	0.32	1.00	UD	1.00	6.23	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.92	3.32	UD	3.32	7.21	ug/m3
75-09-2	Methylene Chloride	0.92	3.20	UD	3.20	6.95	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.48	1.90	UD	1.90	7.93	ug/m3
108-05-4	Vinyl Acetate	1.00	3.60	UD	3.60	7.20	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	UD	2.10	8.09	ug/m3
110-82-7	Cyclohexane	0.88	3.03	UD	3.03	6.88	ug/m3
78-93-3	2-Butanone	0.22	0.65	UD	0.65	5.90	ug/m3
56-23-5	Carbon Tetrachloride	0.10	0.63	UD	0.63	0.75	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.40	1.59	UD	1.59	7.93	ug/m3
67-66-3	Chloroform	0.38	1.86	UD	1.86	9.77	ug/m3
71-55-6	1,1,1-Trichloroethane	0.060	0.33	UD	0.33	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.56	2.62	UD	2.62	9.34	ug/m3
71-43-2	Benzene	46.7	149	D	1.02	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.37	1.50	UD	1.50	8.09	ug/m3
79-01-6	Trichloroethene	0.10	0.54	UD	0.54	0.64	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100DL2	SDG No.:	Q2727
Lab Sample ID:	Q2727-01DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042852.D	4		08/13/25 15:10	VL081325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
78-87-5	1,2-Dichloropropane	0.52	2.40	UD	2.40	9.24	ug/m3
75-27-4	Bromodichloromethane	24.4	163	D	1.67	13.4	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.39	1.60	UD	1.60	8.20	ug/m3
108-88-3	Toluene	0.64	2.41	UD	2.41	7.54	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.60	2.72	UD	2.72	9.08	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.44	2.00	UD	2.00	9.08	ug/m3
79-00-5	1,1,2-Trichloroethane	0.32	1.75	UD	1.75	10.9	ug/m3
591-78-6	2-Hexanone	0.44	1.80	UD	1.80	8.18	ug/m3
124-48-1	Dibromochloromethane	0.34	2.90	UD	2.90	17.0	ug/m3
106-93-4	1,2-Dibromoethane	0.34	2.61	UD	2.61	3.07	ug/m3
127-18-4	Tetrachloroethene	0.060	0.41	UD	0.41	0.81	ug/m3
108-90-7	Chlorobenzene	35.9	165	D	1.43	9.21	ug/m3
100-41-4	Ethyl Benzene	0.76	3.30	UD	3.30	8.69	ug/m3
179601-23-1	m/p-Xylene	30.7	133	D	6.95	17.4	ug/m3
1330-20-7	Total Xylenes	75.3	327	D	10.6	26.1	ug/m3
95-47-6	o-Xylene	44.6	194	D	3.65	8.69	ug/m3
100-42-5	Styrene	0.64	2.72	UD	2.72	8.52	ug/m3
75-25-2	Bromoform	0.19	1.96	UD	1.96	20.7	ug/m3
98-82-8	Isopropylbenzene	0.64	3.15	UD	3.15	9.83	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.070	0.48	UD	0.48	0.82	ug/m3
95-49-8	2-Chlorotoluene	0.68	3.52	UD	3.52	10.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	29.1	143	D	3.54	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.72	3.54	UD	3.54	9.83	ug/m3
541-73-1	1,3-Dichlorobenzene	0.22	1.32	UD	1.32	12.0	ug/m3
106-46-7	1,4-Dichlorobenzene	0.52	3.13	UD	3.13	12.0	ug/m3
95-50-1	1,2-Dichlorobenzene	24.0	144	D	3.13	12.0	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.84	6.24	UD	6.24	14.8	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.52	5.55	UD	5.55	21.3	ug/m3
106-99-0	1,3-Butadiene	0.20	0.44	UD	0.44	4.42	ug/m3
91-20-3	Naphthalene	0.050	0.26	UD	0.26	2.10	ug/m3
622-96-8	4-Ethyltoluene	0.84	4.13	UD	4.13	9.83	ug/m3
110-54-3	Hexane	0.64	2.26	UD	2.26	7.05	ug/m3
107-05-1	Allyl Chloride	0.44	1.38	UD	1.38	6.26	ug/m3
123-91-1	1,4-Dioxane	0.88	3.17	UD	3.17	7.21	ug/m3
100-44-7	Benzyl Chloride	0.36	1.86	UD	1.86	10.4	ug/m3
80-62-6	Methyl Methacrylate	0.56	2.29	UD	2.29	8.19	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	07/28/25
Project:	NJ AIR PT	Date Received:	07/30/25
Client Sample ID:	AE073-1100DL2	SDG No.:	Q2727
Lab Sample ID:	Q2727-01DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042852.D	4		08/13/25 15:10	VL081325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	118000		2.794			
540-36-3	1,4-Difluorobenzene	365000		3.969			
3114-55-4	Chlorobenzene-d5	318000		8.892			

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\VL081325\
 Data File : VL042852.D
 Acq On : 13 Aug 2025 15:10
 Operator : SY/MD
 Sample : Q2727-01DL2 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AE073-1100DL2

Quant Time: Aug 14 02:46:12 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)

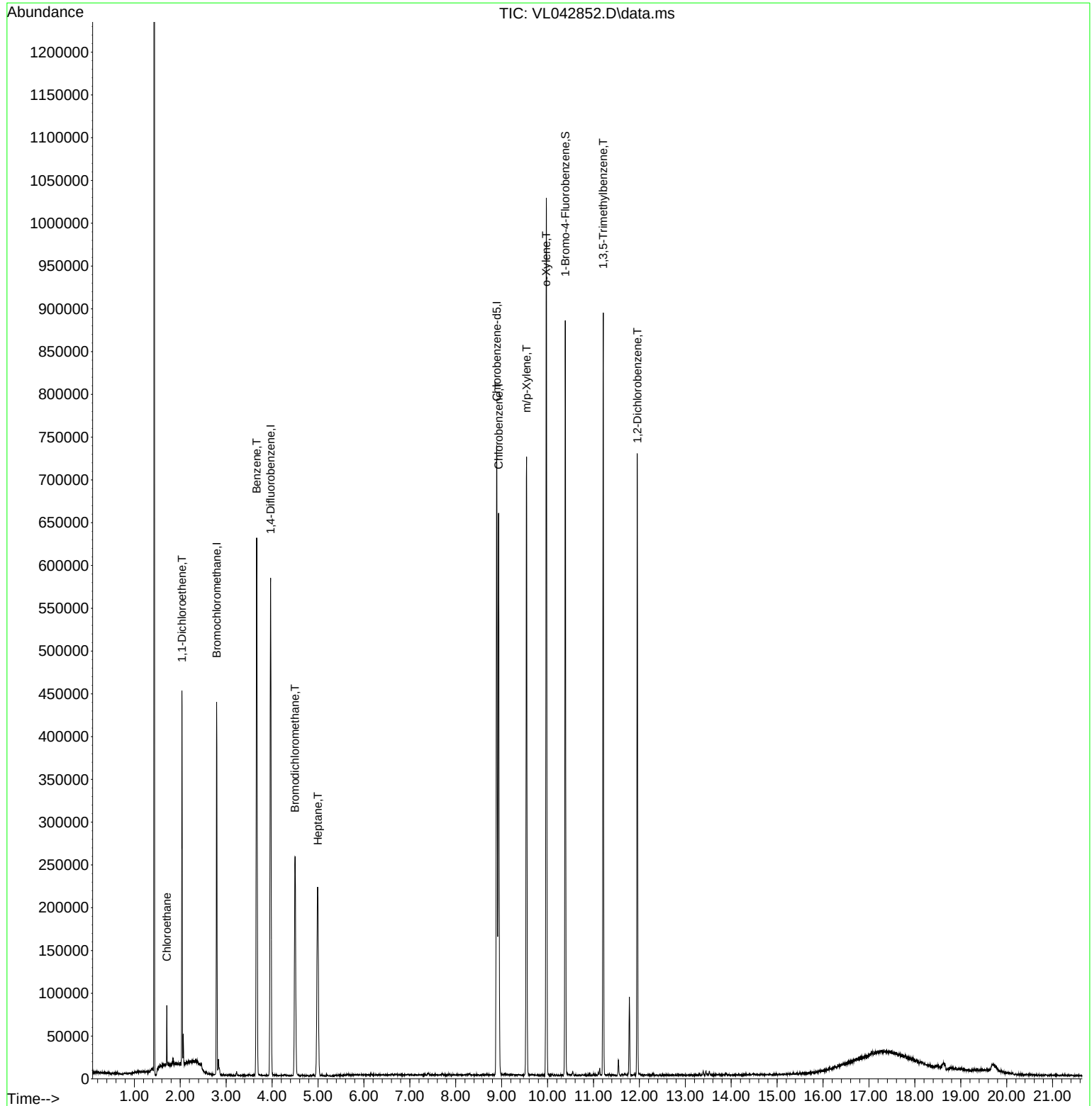
Internal Standards						
1) Bromochloromethane	2.794	49	118347	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	364683	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	318426	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	237748	9.956	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
					Qvalue	
7) Chloroethane	1.706	64	18906	7.023	ppbv	98
10) Heptane	4.995	43	106371	4.797	ppbv	100
18) 1,1-Dichloroethene	2.040	96	58452	9.748	ppbv	93
36) Benzene	3.664	78	407528	11.670	ppbv	99
42) Bromodichloromethane	4.499	83	165750	6.097	ppbv	98
57) Chlorobenzene	8.934	112	271358	8.963	ppbv	98
59) m/p-Xylene	9.542	91	337995	7.674	ppbv #	100
60) o-Xylene	9.973	91	493555	11.140	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	331987	7.269	ppbv	98
77) 1,2-Dichlorobenzene	11.957	146	167278	5.994	ppbv	99

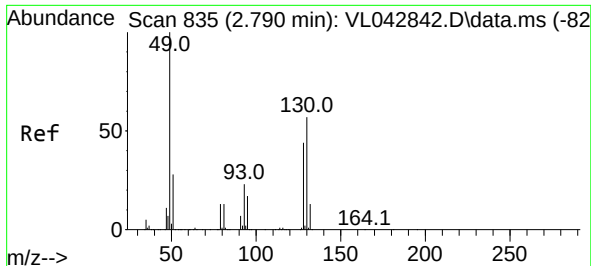
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042852.D
Acq On : 13 Aug 2025 15:10
Operator : SY/MD
Sample : Q2727-01DL2 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL2

Quant Time: Aug 14 02:46:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

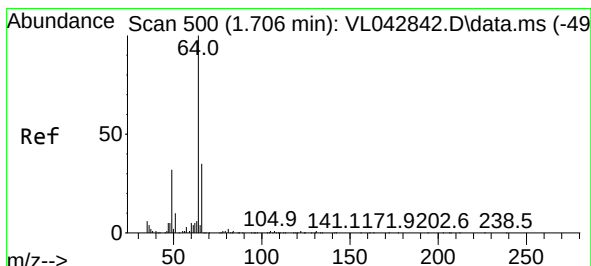
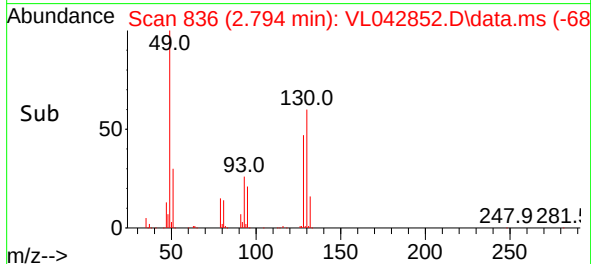
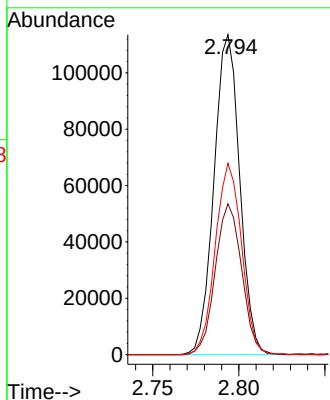
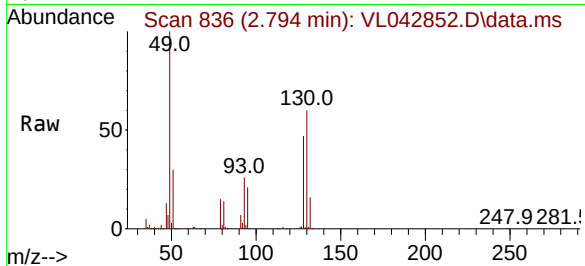




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042852.D
Acq: 13 Aug 2025 15:10

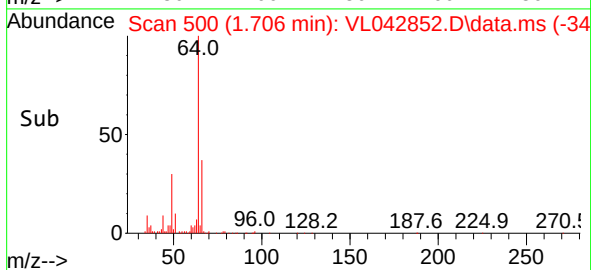
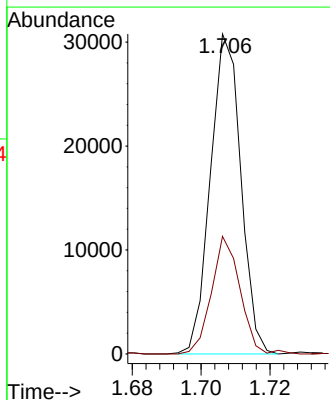
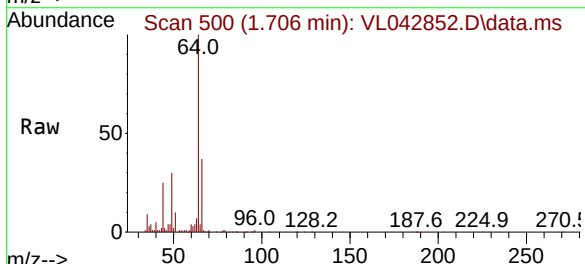
Instrument :
MSVOA_L
ClientSampleId :
AE073-1100DL2

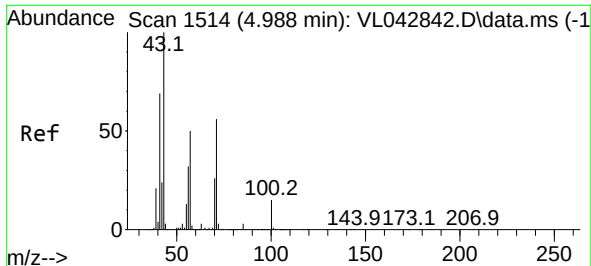
Tgt Ion: 49 Resp: 118347
Ion Ratio Lower Upper
49 100
128 48.5 23.7 71.1
130 61.0 30.6 91.6



#7
Chloroethane
Concen: 7.023 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042852.D
Acq: 13 Aug 2025 15:10

Tgt Ion: 64 Resp: 18906
Ion Ratio Lower Upper
64 100
66 36.8 28.6 42.8

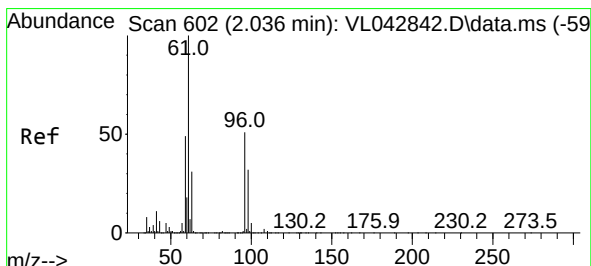
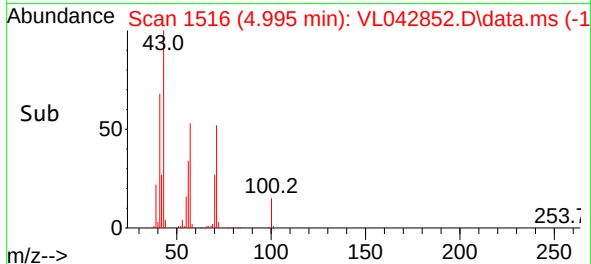
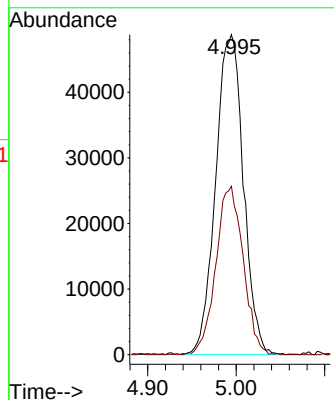
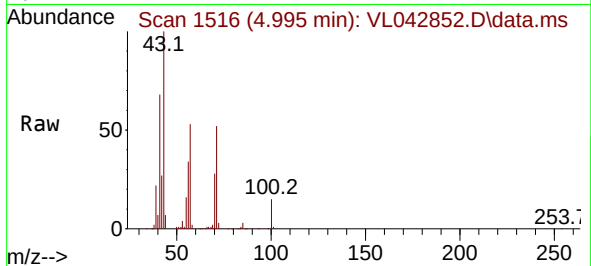




#10
 Heptane
 Concen: 4.797 ppbv
 RT: 4.995 min Scan# 11
 Delta R.T. 0.007 min
 Lab File: VL042852.D
 Acq: 13 Aug 2025 15:10

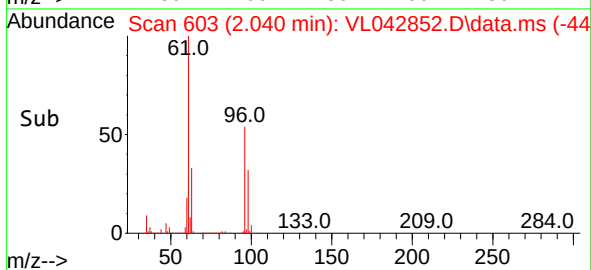
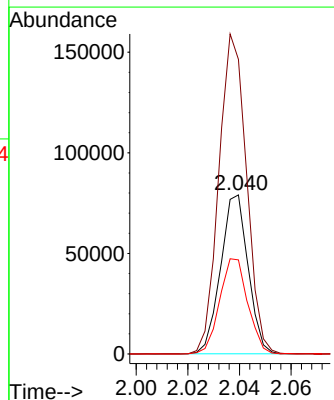
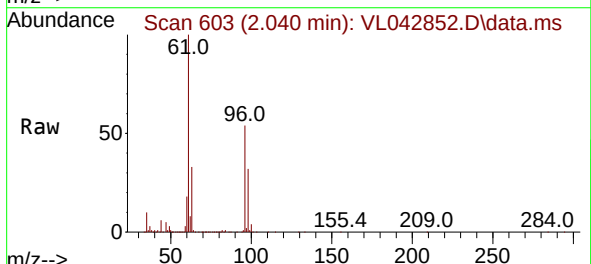
Instrument :
 MSVOA_L
 ClientSampleId :
 AE073-1100DL2

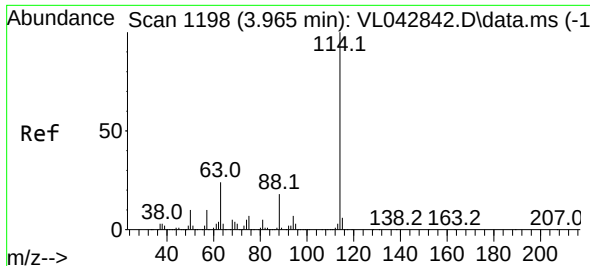
Tgt Ion: 43 Resp: 106371
 Ion Ratio Lower Upper
 43 100
 57 51.8 41.4 62.0



#18
 1,1-Dichloroethene
 Concen: 9.748 ppbv
 RT: 2.040 min Scan# 603
 Delta R.T. 0.003 min
 Lab File: VL042852.D
 Acq: 13 Aug 2025 15:10

Tgt Ion: 96 Resp: 58452
 Ion Ratio Lower Upper
 96 100
 61 185.5 158.2 237.4
 98 59.2 50.6 76.0

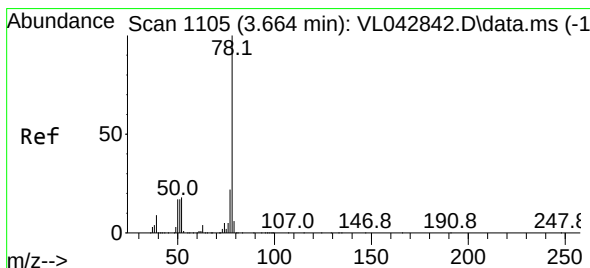
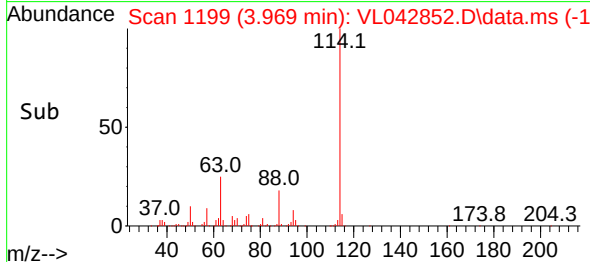
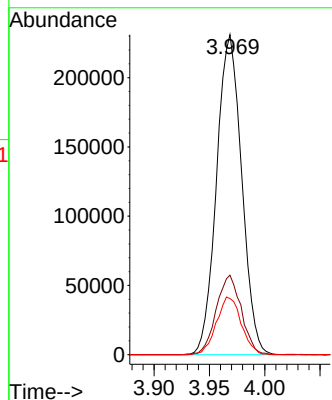
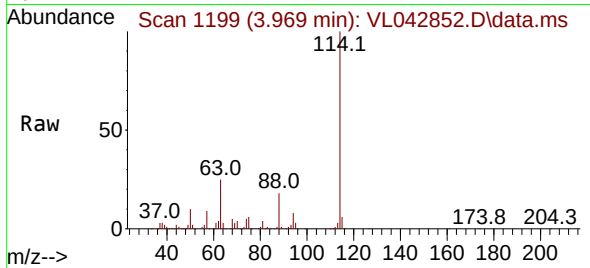




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.969 min Scan# 1199
 Delta R.T. 0.003 min
 Lab File: VL042852.D
 Acq: 13 Aug 2025 15:10

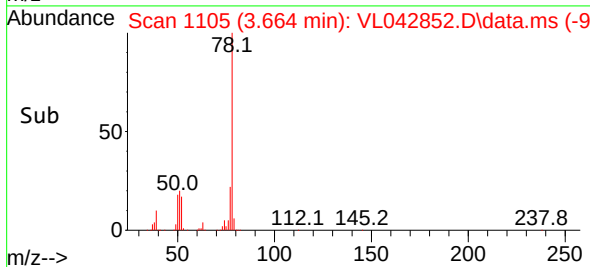
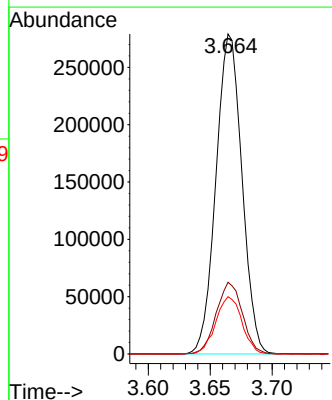
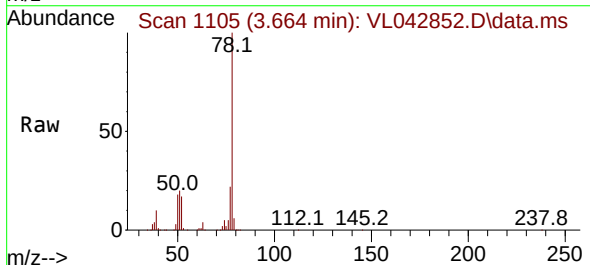
Instrument :
 MSVOA_L
 ClientSampleId :
 AE073-1100DL2

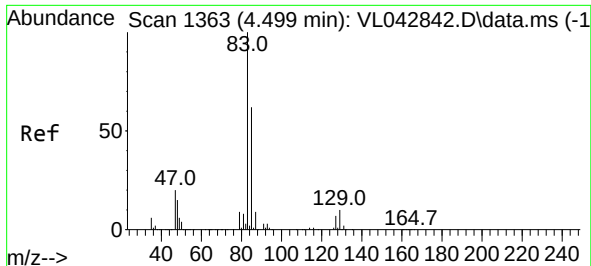
Tgt Ion:114 Resp: 364683
 Ion Ratio Lower Upper
 114 100
 63 24.7 19.7 29.5
 88 17.8 14.4 21.6



#36
 Benzene
 Concen: 11.670 ppbv
 RT: 3.664 min Scan# 1105
 Delta R.T. 0.000 min
 Lab File: VL042852.D
 Acq: 13 Aug 2025 15:10

Tgt Ion: 78 Resp: 407528
 Ion Ratio Lower Upper
 78 100
 77 22.4 17.7 26.5
 50 17.9 13.9 20.9

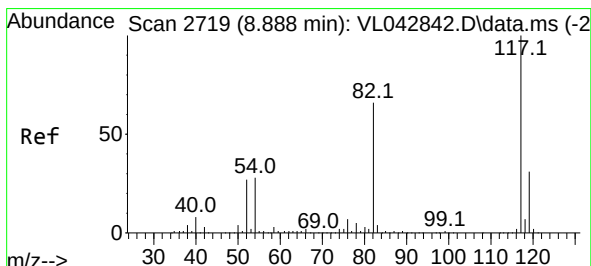
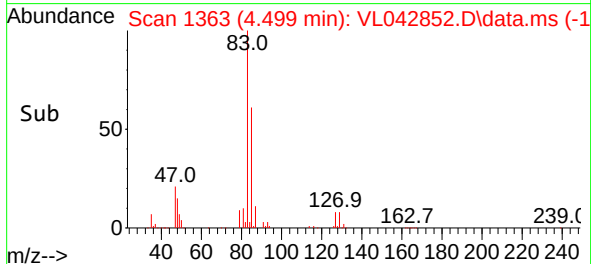
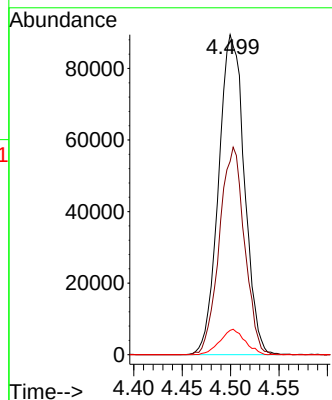
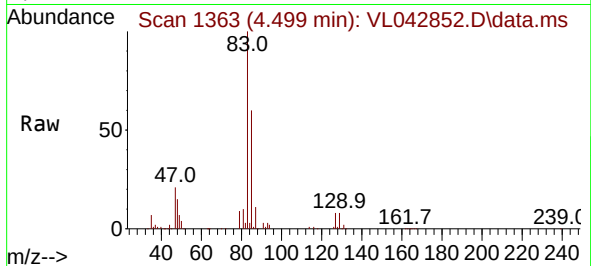




#42
Bromodichloromethane
Concen: 6.097 ppbv
RT: 4.499 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042852.D
Acq: 13 Aug 2025 15:10

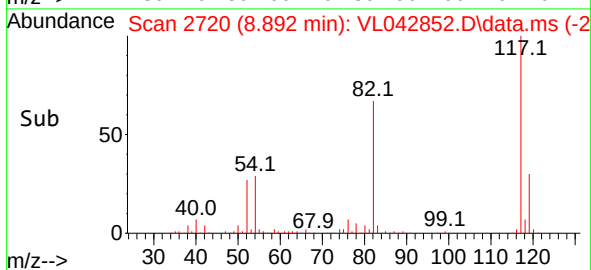
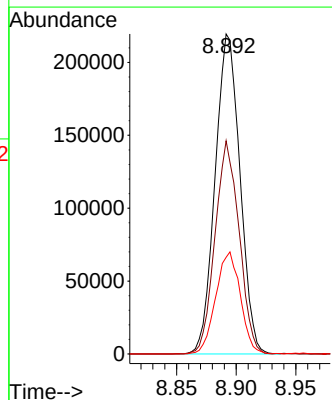
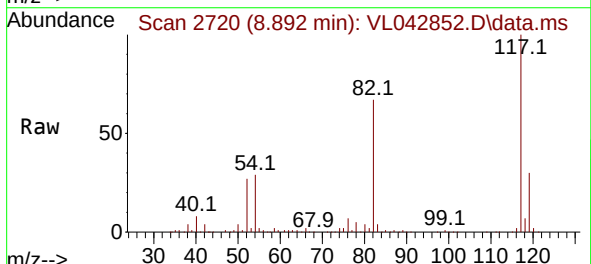
Instrument :
MSVOA_1
ClientSampleId :
AE073-1100DL2

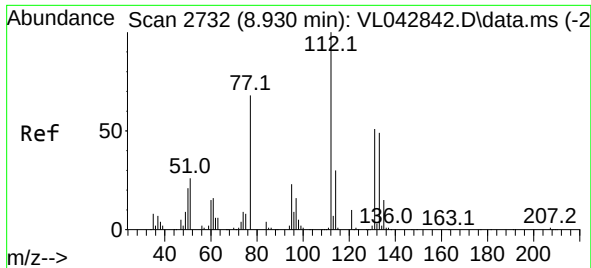
Tgt Ion: 83 Resp: 165750
Ion Ratio Lower Upper
83 100
85 60.4 49.8 74.8
127 7.6 5.8 8.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2720
Delta R.T. 0.003 min
Lab File: VL042852.D
Acq: 13 Aug 2025 15:10

Tgt Ion: 117 Resp: 318426
Ion Ratio Lower Upper
117 100
82 64.7 54.6 81.8
119 31.6 25.9 38.9

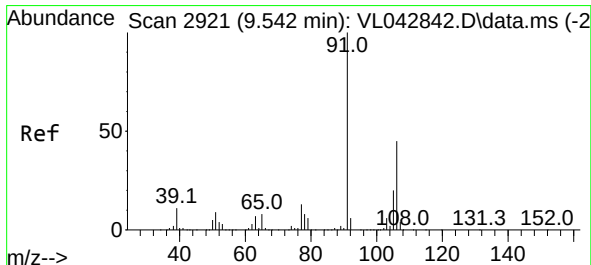
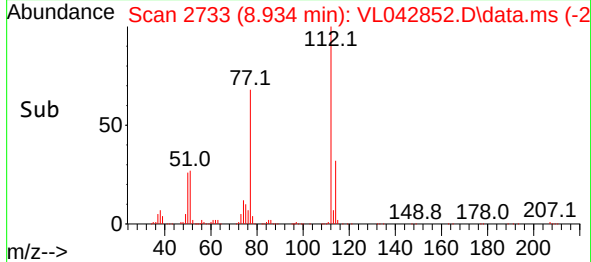
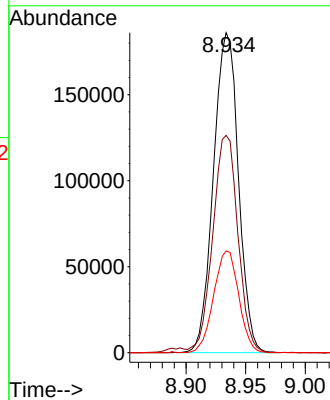
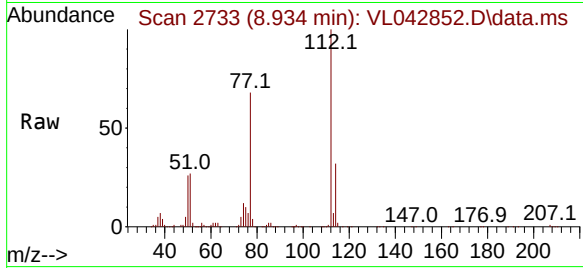




#57
Chlorobenzene
Concen: 8.963 ppbv
RT: 8.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042852.D
Acq: 13 Aug 2025 15:10

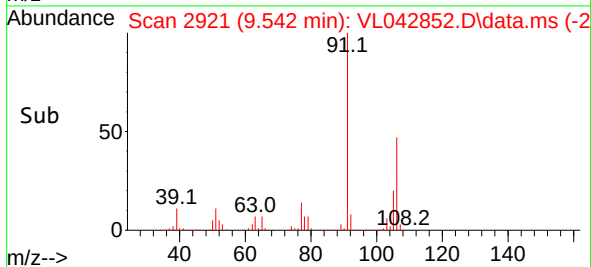
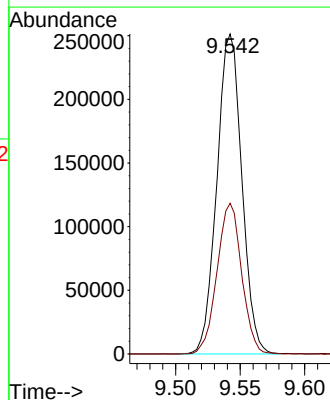
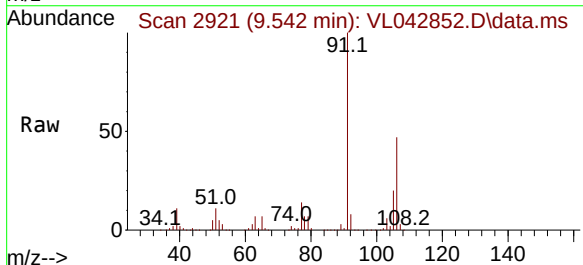
Instrument :
MSVOA_1
ClientSampleId :
AE073-1100DL2

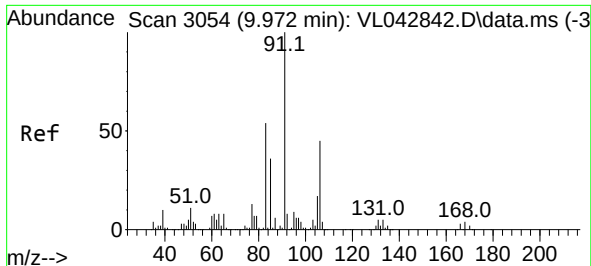
Tgt Ion:112 Resp: 271358
Ion Ratio Lower Upper
112 100
77 67.8 55.5 83.3
114 31.8 27.2 33.2



#59
m/p-Xylene
Concen: 7.674 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. 0.000 min
Lab File: VL042852.D
Acq: 13 Aug 2025 15:10

Tgt Ion: 91 Resp: 337995
Ion Ratio Lower Upper
91 100
106 46.4 0.0 0.0#

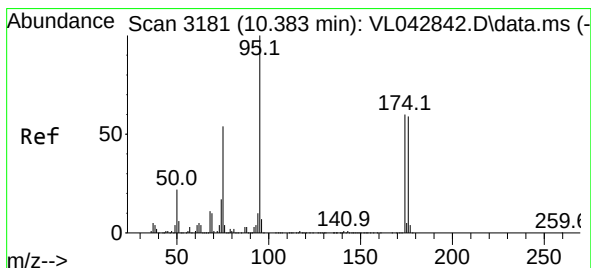
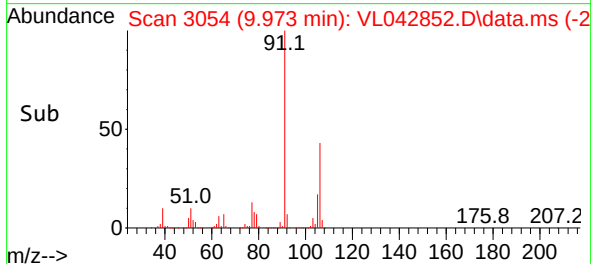
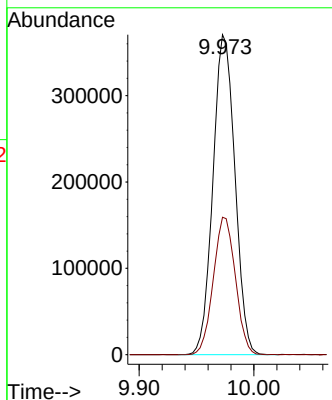
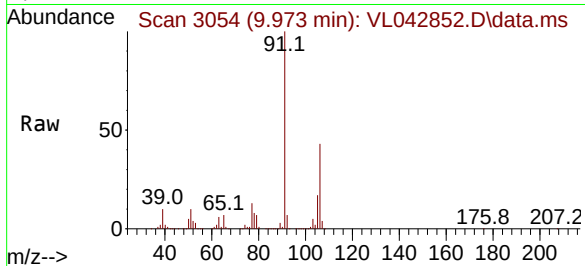




#60
o-Xylene
Concen: 11.140 ppbv
RT: 9.973 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042852.D
Acq: 13 Aug 2025 15:10

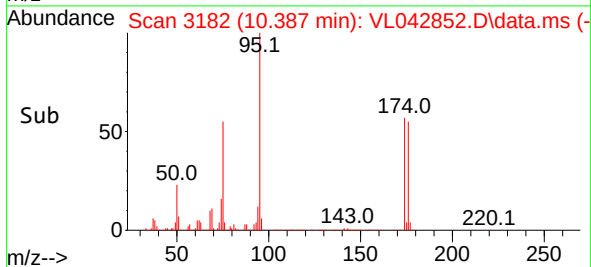
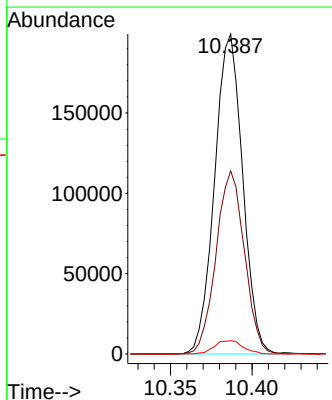
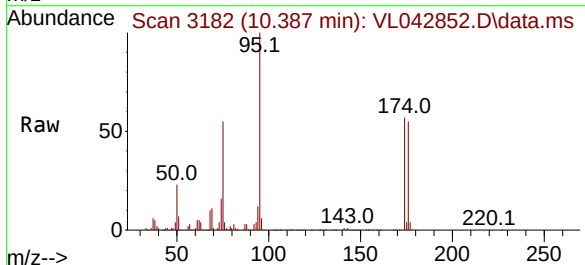
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MSVOA_L
ClientSampleId :
AE073-1100DL2

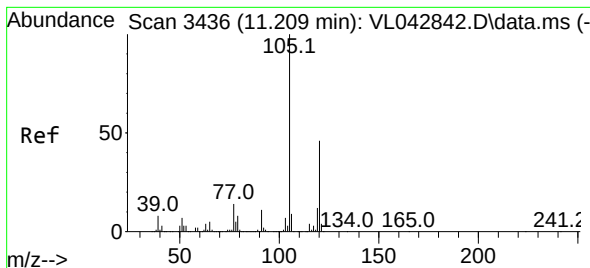
Tgt Ion: 91 Resp: 493555
Ion Ratio Lower Upper
91 100
106 43.1 21.8 65.4



#68
1-Bromo-4-Fluorobenzene
Concen: 9.956 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.003 min
Lab File: VL042852.D
Acq: 13 Aug 2025 15:10

Tgt Ion: 95 Resp: 237748
Ion Ratio Lower Upper
95 100
174 58.0 48.4 72.6
175 4.3 3.8 5.8





#73

1,3,5-Trimethylbenzene

Concen: 7.269 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.003 min

Lab File: VL042852.D

Acq: 13 Aug 2025 15:10

Instrument :

MSVOA_1

ClientSampleId :

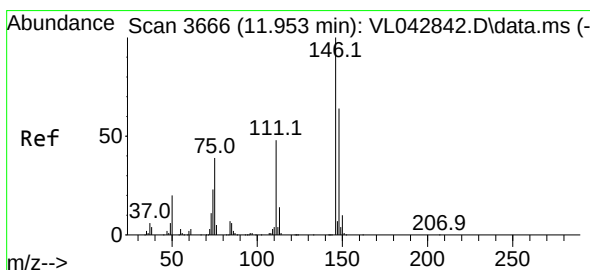
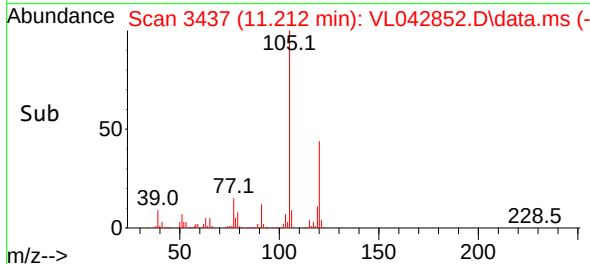
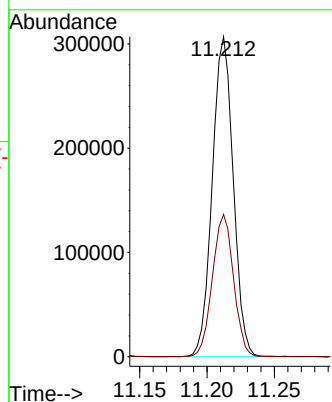
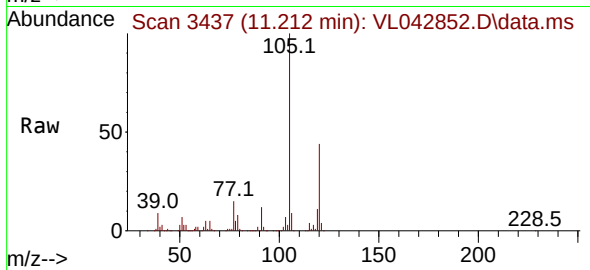
AE073-1100DL2

Tgt Ion:105 Resp: 331987

Ion Ratio Lower Upper

105 100

120 44.4 36.6 54.8



#77

1,2-Dichlorobenzene

Concen: 5.994 ppbv

RT: 11.957 min Scan# 3667

Delta R.T. 0.003 min

Lab File: VL042852.D

Acq: 13 Aug 2025 15:10

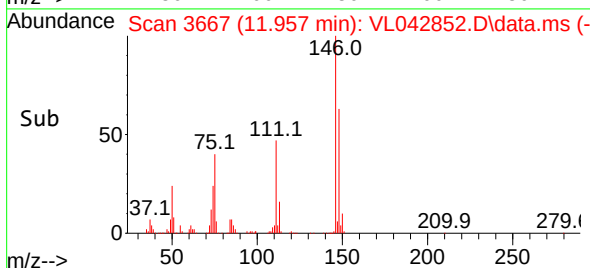
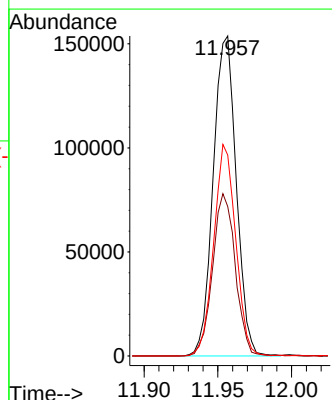
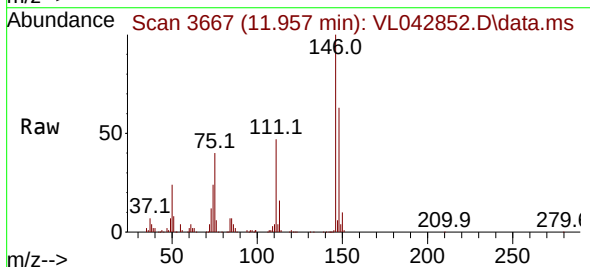
Tgt Ion:146 Resp: 167278

Ion Ratio Lower Upper

146 100

111 50.2 24.6 74.0

148 63.2 32.0 96.0





CALIBRATION SUMMARY

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

Method File : VL072325AIR.M

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

Last Update : Thu Jul 24 05:24:41 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042752.D 0.1 =VL042754.D 0.5 =VL042750.D 1 =VL042749.D 2 =VL042748.D 10 =VL042747.D 15 =VL042753.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.468	1.339	1.377	1.198	1.229	1.322	8.34
3) Chlorodifluoro...			1.890	1.757	1.772	1.625	1.567	1.722	7.41
4) Chloromethane			0.585	0.579	0.531	0.484	0.495	0.535	8.70
5) T Vinyl Chloride	0.825	0.549	0.516	0.476	0.485	0.411	0.437	0.528	26.27
6) T Bromomethane			0.227	0.239	0.181	0.178	0.196	0.204	13.52
7) Chloroethane			0.278	0.196	0.189	0.177	0.181	0.204	20.51
8) T Dichlorotetra...			1.186	1.130	1.123	0.980	1.017	1.087	7.89
9) T Propene			0.621	0.662	0.681	0.594	0.572	0.626	7.25
10) T Heptane			1.719	1.672	1.780	1.633	1.635	1.688	3.68
11) T Trichlorofluor...			1.457	1.435	1.412	1.226	1.285	1.363	7.47
12) T 1,1,2-Trichlor...			1.115	1.063	1.069	0.940	0.991	1.036	6.67
13) Ethanol			0.141	0.104	0.073	0.050	0.049	0.083	46.80
14) T Bromoethene			0.393	0.379	0.381	0.337	0.343	0.367	6.76
15) T Acetone			1.853	1.479	1.521	0.998	1.054	1.381	25.75
16) T 1,3-Butadiene			0.726	0.602	0.583	0.509	0.524	0.589	14.57
17) tert-Butyl alc...			1.366	1.275	1.265	1.165	1.156	1.245	7.01
18) T 1,1-Dichloroet...			0.536	0.530	0.453	0.404	0.417	0.468	13.20
19) T Isopropyl Alcohol			0.857	0.764	0.726	0.659	0.663	0.734	11.12
20) T Methylene Chlo...			0.595	0.458	0.419	0.337	0.367	0.435	23.16
21) T Allyl Chloride			0.903	0.856	0.876	0.798	0.821	0.851	4.92
22) T trans-1,2-Dich...			0.553	0.506	0.523	0.460	0.475	0.503	7.46
23) T Vinyl Acetate			1.643	1.502	1.688	1.704	1.833	1.674	7.14
24) T 1,1-Dichloroet...			1.053	1.117	1.071	0.945	0.981	1.033	6.75
25) T Ethyl Acetate			3.125	3.122	3.212	2.954	2.870	3.056	4.57
26) T Hexane			1.325	1.425	1.433	1.281	1.240	1.341	6.43
27) T Carbon Disulfide			1.146	1.183	1.165	1.088	1.157	1.148	3.13
28) T Methyl tert-Bu...			0.653	0.613	0.650	0.556	0.696	0.633	8.28
29) T Chloroform			2.261	2.104	2.136	1.915	1.943	2.072	6.92
30) T Cyclohexane			1.137	1.140	1.201	1.125	1.083	1.137	3.74
31) T cis-1,2-Dichlo...			1.459	1.406	1.414	1.306	1.304	1.378	5.05
32) T 1,1,1-Trichlor...	2.522	2.330	2.133	2.048	2.132	1.957	1.985	2.158	9.39

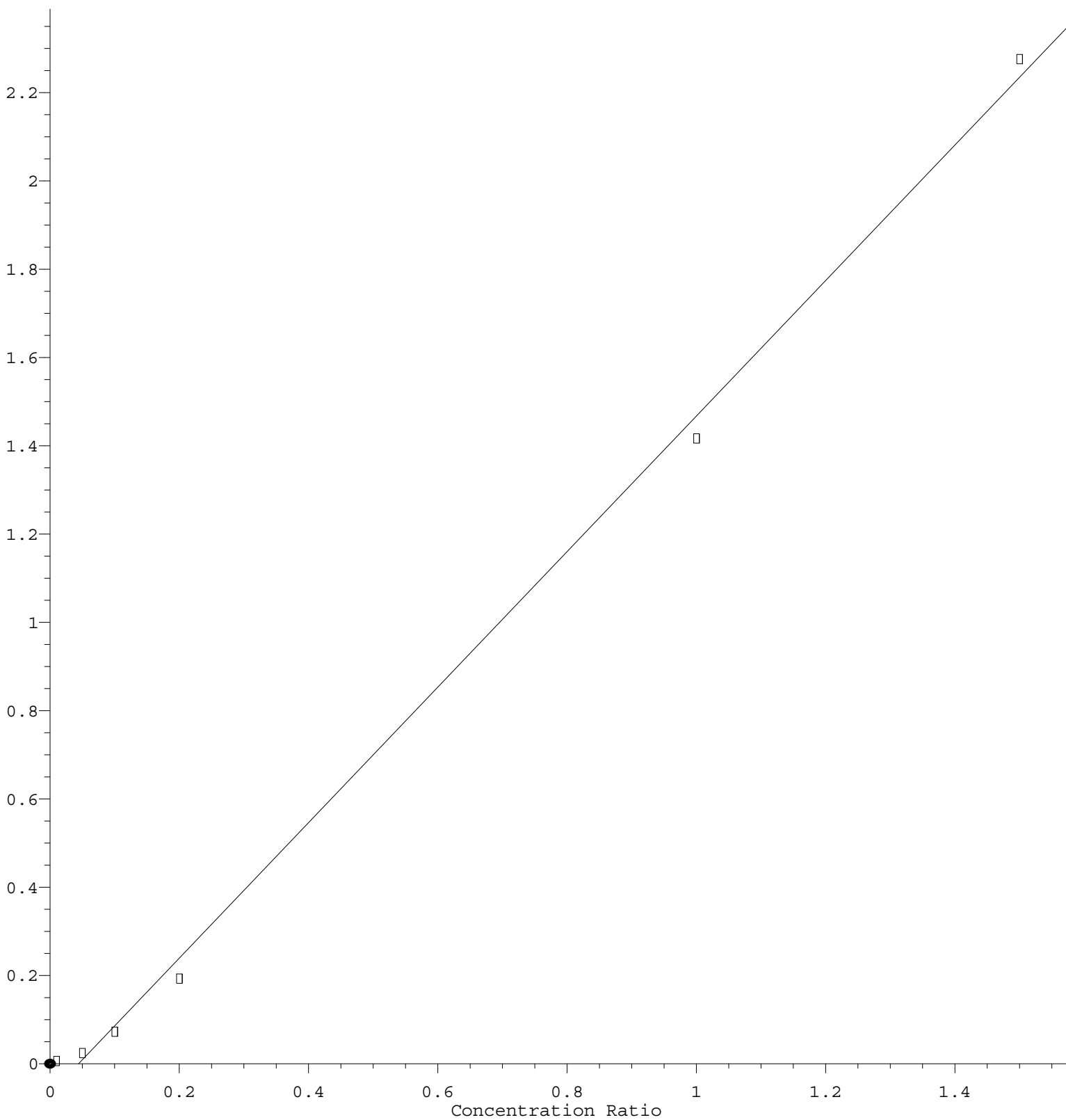
33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.730	0.713	0.761	0.663	0.675	0.708	5.64
35) T Carbon Tetrach...	0.950	0.692	0.681	0.709	0.735	0.701	0.731	0.743	12.56
36) T Benzene			0.976	0.971	0.995	0.896	0.900	0.948	4.86
37) T 1,2-Dichloroet...			0.595	0.585	0.584	0.537	0.553	0.571	4.34
38) T Trichloroethene	0.511	0.503	0.452	0.459	0.445	0.408	0.409	0.455	8.97
39) T 1,2-Dichloropr...			0.371	0.362	0.363	0.324	0.330	0.350	6.13

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL072325AIR.M										
40)	T	1,4-Dioxane		0.177	0.170	0.174	0.141	0.153	0.163	9.36
41)	T	Tetrahydrofuran		0.361	0.350	0.367	0.362	0.362	0.360	1.74
42)	T	Bromodichlorom...		0.720	0.761	0.755	0.723	0.759	0.744	2.75
43)		Methyl Methacr...		0.321	0.324	0.331	0.348	0.361	0.337	5.05
44)	T	2,2,4-Trimethy...		1.515	1.585	1.634	1.486	1.503	1.545	4.03
45)	T	t-1,3-Dichloro...		0.357	0.340	0.375	0.402	0.415	0.378	8.21
46)	T	cis-1,3-Dichlo...		0.435	0.459	0.479	0.507	0.514	0.479	6.95
47)	T	1,1,2-Trichlor...		0.393	0.384	0.385	0.347	0.356	0.373	5.41
48)	T	Dibromochlorom...		0.569	0.571	0.600	0.600	0.619	0.592	3.61
49)	T	Bromoform		0.483	0.502	0.517	0.529	0.549	0.516	4.87
50)	T	4-Methyl-2-Pen...		0.876	0.907	0.956	0.895	0.928	0.912	3.39
51)	T	2-Hexanone		0.573	0.647	0.744	0.726	0.757	0.690	11.25
52)	T	Tetrachloroethene	0.504 0.422	0.374	0.394	0.378	0.339	0.339	0.393	14.53
53)	T	Toluene		0.954	0.993	1.074	1.022	1.045	1.018	4.55
54)	T	1,2-Dibromoethane	0.498	0.550	0.531	0.539	0.514	0.529	0.527	3.51
-----ISTD-----										
55)	I	Chlorobenzene-d5								
56)		1,1,1,2-Tetrac...		0.548	0.520	0.541	0.484	0.508	0.520	4.96
57)	T	Chlorobenzene		1.019	1.019	1.016	0.879	0.905	0.968	7.22
58)	T	Ethyl Benzene		1.426	1.548	1.744	1.551	1.627	1.579	7.40
59)	T	m/p-Xylene		1.151	1.275	1.354	1.234	1.296	1.262	6.00
60)	T	o-Xylene		1.155	1.280	1.381	1.225	1.264	1.261	6.55
61)	T	Styrene		0.450	0.495	0.552	0.561	0.594	0.531	10.81
62)		Isopropylbenzene		1.722	1.885	2.034	1.793	1.866	1.860	6.27
63)	T	1,1,2,2-Tetrac...	1.105 0.785	0.761	0.795	0.803	0.693	0.726	0.810	16.82
64)		n-propylbenzene		0.437	0.490	0.533	0.469	0.496	0.485	7.31
65)		tert-Butylbenzene		1.496	1.669	1.839	1.606	1.652	1.652	7.52
66)	T	Benzyl Chloride		0.114	0.115	0.128	0.159	0.163	0.136	17.43
67)		sec-Butylbenzene		2.162	2.474	2.592	2.225	2.297	2.350	7.61
68)	S	1-Bromo-4-Fluo...	0.780 0.759	0.782	0.799	0.805	0.801	0.818	0.792	2.50
69)		p-Isopropyltol...		1.620	1.907	2.137	1.928	1.989	1.916	9.83
70)		n-Butylbenzene		1.422	1.811	2.090	1.939	1.994	1.851	14.06
71)		2-Chlorotoluene		1.331	1.444	1.522	1.385	1.451	1.426	5.08
72)	T	4-Ethyltoluene		1.292	1.493	1.632	1.524	1.589	1.506	8.74
73)	T	1,3,5-Trimethy...		1.096	1.193	1.315	1.275	1.321	1.240	7.70
74)	T	1,2,4-Trimethy...		1.115	1.345	1.489	1.384	1.432	1.353	10.61
75)	T	1,3-Dichlorobe...		0.914	0.970	1.038	0.887	0.933	0.948	6.14
76)	T	1,4-Dichlorobe...		0.862	0.927	1.016	0.896	0.940	0.928	6.19
77)	T	1,2-Dichlorobe...		0.920	0.996	1.002	0.848	0.894	0.932	7.10
78)	T	Hexachloro-1,3...		0.897	0.908	0.953	0.712	0.748	0.844	12.62
79)	T	Naphthalene	0.638	0.485	0.727	0.964	1.417	1.517	0.958	44.34
80)	T	Naphthalene,2-...		0.036	0.048	0.071	0.685	0.790	0.326	115.91
81)	T	1,2,4-Trichlor...		0.365	0.535	0.627	0.800	0.849	0.635	31.11

(#) = Out of Range

Naphthalene

Response Ratio



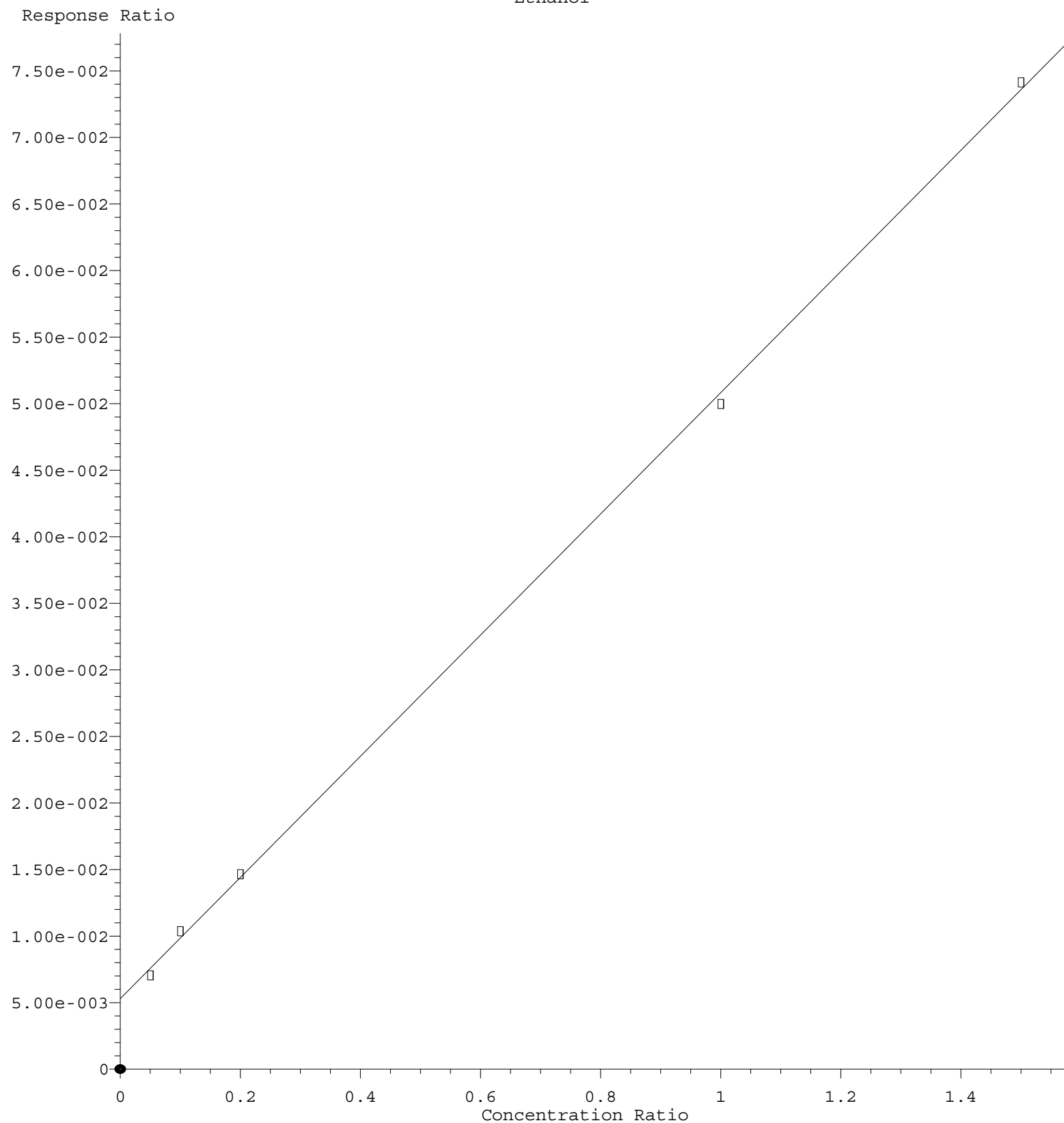
$$\text{Response} = 1.535\text{e}+000 * \text{Amt} - 6.678\text{e}-002$$

Coef of Det (r^2) = 0.997757 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL072325AIR.M

Calibration Table Last Updated: Thu Jul 24 05:24:41 2025

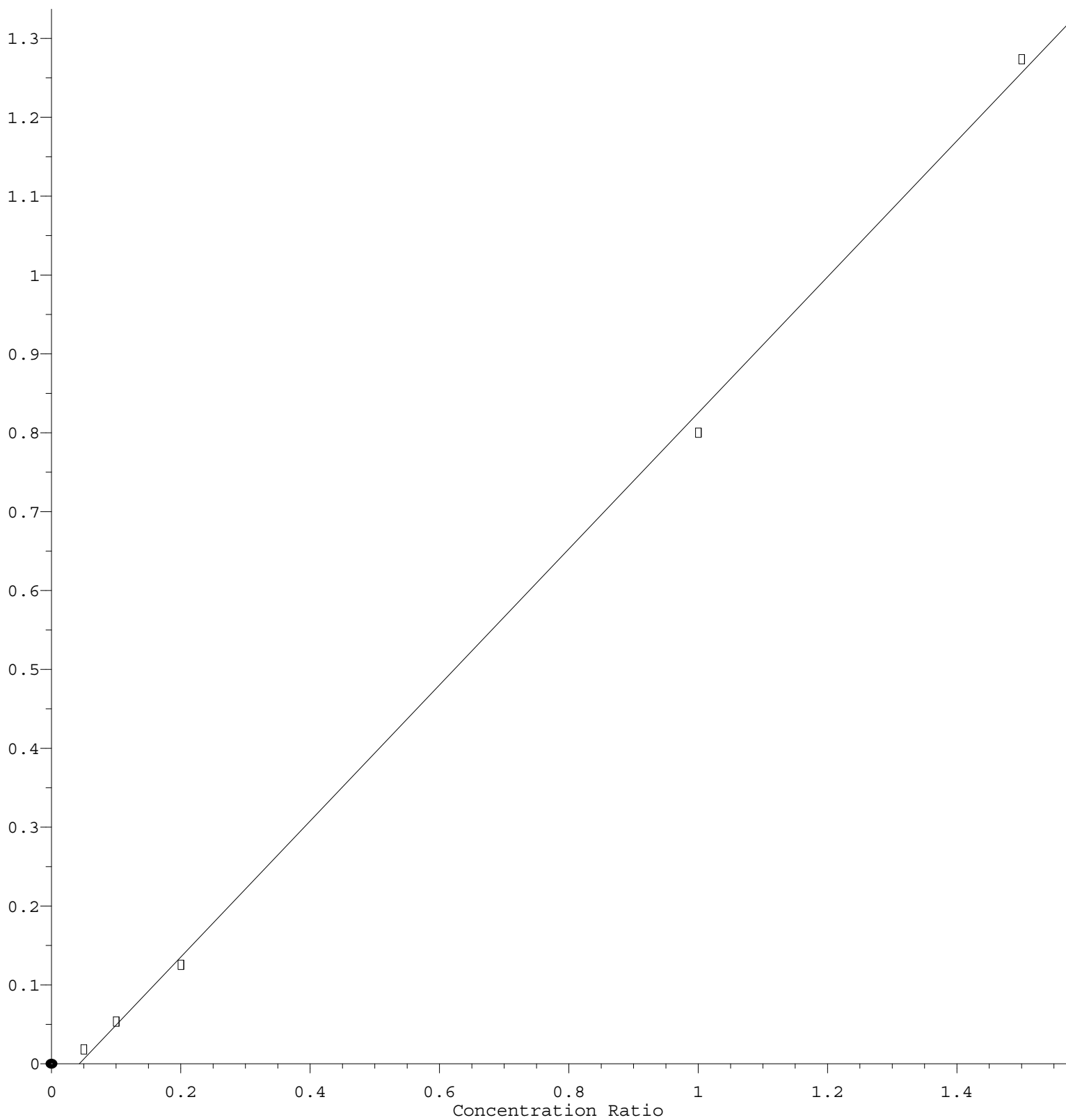
Ethanol



Response = 4.558e-002 * Amt + 5.251e-003
 Coef of Det (r^2) = 0.999534 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL072325AIR.M
 Calibration Table Last Updated: Thu Jul 24 05:24:41 2025

1,2,4-Trichlorobenzene

Response Ratio



$$\text{Response} = 8.625\text{e-}001 * \text{Amt} - 3.751\text{e-}002$$

Coef of Det (r^2) = 0.999044 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL072325AIR.M

Calibration Table Last Updated: Thu Jul 24 05:24:41 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042747.D
 Acq On : 23 Jul 2025 08:58
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:56:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	159080	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	462763	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	422206	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 338271 10.117 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	190592	9.062	ppbv	100
3) Chlorodifluoromethane	1.476	51	258542	9.436	ppbv	100
4) Chloromethane	1.531	50	77006	9.050	ppbv	100
5) Vinyl Chloride	1.580	62	65346	7.773	ppbv	100
6) Bromomethane	1.667	94	28292	8.705	ppbv	100
7) Chloroethane	1.703	64	28085	8.646	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	155875	9.011	ppbv	100
9) Propene	1.483	41	94480	9.488	ppbv	100
10) Heptane	4.975	43	259821	9.701	ppbv	100
11) Trichlorofluoromethane	1.878	101	194964	8.992	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	149612	9.081	ppbv	100
13) Ethanol	1.719	45	7949	9.867	ppbv	97
14) Bromoethene	1.780	108	53625	9.193	ppbv	100
15) Acetone	1.835	43	158714	7.225	ppbv	100
16) 1,3-Butadiene	1.609	39	80968	8.642	ppbv	100
17) tert-Butyl alcohol	2.039	59	185262	9.351	ppbv	100
18) 1,1-Dichloroethene	2.033	96	64224	8.627	ppbv	100
19) Isopropyl Alcohol	1.884	45	104903	8.987	ppbv	100
20) Methylene Chloride	2.059	84	53581	7.740	ppbv	100
21) Allyl Chloride	2.094	41	127021	9.382	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	73152	9.148	ppbv	100
23) Vinyl Acetate	2.460	43	271125	10.181	ppbv	100
24) 1,1-Dichloroethane	2.408	63	150257	9.141	ppbv	100
25) Ethyl Acetate	2.832	43	469997	9.666	ppbv	100
26) Hexane	2.826	57	203800	9.555	ppbv	100
27) Carbon Disulfide	2.149	76	173105	9.480	ppbv	100
28) Methyl tert-Butyl Ether	2.437	73	88372	8.770	ppbv	100
29) Chloroform	2.845	83	304670	9.244	ppbv	100
30) Cyclohexane	3.852	84	178948	9.892	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	207751	9.479	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	311368	9.069	ppbv	100
34) 2-Butanone	2.554	43	306858	9.361	ppbv	100
35) Carbon Tetrachloride	3.758	117	324501	9.436	ppbv	100
36) Benzene	3.654	78	414863	9.459	ppbv	100
37) 1,2-Dichloroethane	3.217	62	248414	9.403	ppbv	100
38) Trichloroethene	4.545	130	188750	8.926	ppbv	100
39) 1,2-Dichloropropane	4.311	63	149771	9.251	ppbv	100
40) 1,4-Dioxane	4.580	88	65413	8.569	ppbv #	100
41) Tetrahydrofuran	3.049	42	167323	10.160	ppbv	100
42) Bromodichloromethane	4.483	83	334531	9.713	ppbv	100
43) Methyl Methacrylate	4.875	69	161053	10.331	ppbv	100
44) 2,2,4-Trimethylpentane	4.638	57	687885	9.623	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	185965	10.633	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042747.D
 Acq On : 23 Jul 2025 08:58
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:56:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

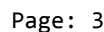
Response via : Initial Calibration

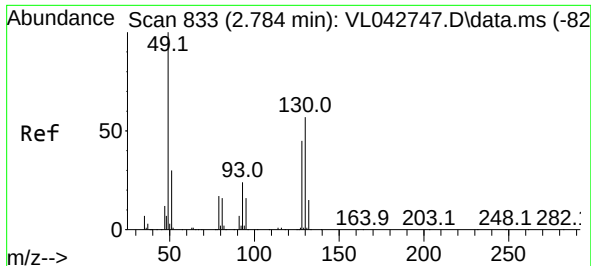
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	234594	10.587	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	160431	9.297	ppbv	100
48) Dibromochloromethane	7.383	129	277832	10.141	ppbv	100
49) Bromoform	9.480	173	244997	10.256	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	413966	9.914	ppbv	100
51) 2-Hexanone	7.432	43	336048	10.532	ppbv	100
52) Tetrachloroethene	8.225	164	156930	8.609	ppbv	100
53) Toluene	6.930	91	472953	10.042	ppbv	100
54) 1,2-Dibromoethane	7.648	107	238045	9.745	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	204205	9.302	ppbv	100
57) Chlorobenzene	8.920	112	371117	9.082	ppbv	100
58) Ethyl Benzene	9.354	91	655020	9.824	ppbv	100
59) m/p-Xylene	9.552	91	1042332m	19.555	ppbv	
60) o-Xylene	9.963	91	517292	9.715	ppbv	100
61) Styrene	9.869	104	236709	10.568	ppbv	100
62) Isopropylbenzene	10.539	105	757219	9.641	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	292568	8.434	ppbv	100
64) n-propylbenzene	10.989	120	198109	9.675	ppbv	100
65) tert-Butylbenzene	11.529	119	678174	9.721	ppbv	100
66) Benzyl Chloride	11.617	91	66954	11.691	ppbv	100
67) sec-Butylbenzene	11.765	105	939396	9.468	ppbv	100
69) p-Isopropyltoluene	11.924	119	814010	10.061	ppbv	100
70) n-Butylbenzene	12.280	91	818457	10.473	ppbv	100
71) 2-Chlorotoluene	10.898	91	584629	9.708	ppbv	100
72) 4-Ethyltoluene	11.125	105	643519	10.120	ppbv	100
73) 1,3,5-Trimethylbenzene	11.202	105	538451	10.285	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	584447	10.232	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	374587	9.355	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	378093	9.649	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	358206	9.102	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	300801	8.444	ppbv	100
79) Naphthalene	13.513	128	598108	9.665	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	289412	9.404	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	337776	9.710	ppbv	100

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

Manual Integrations

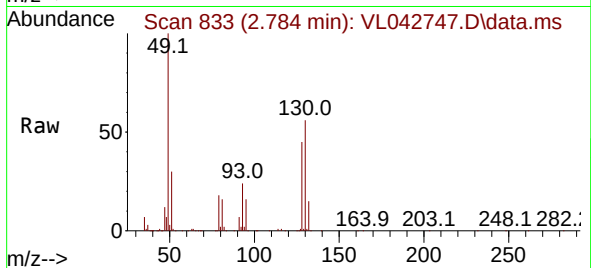
Quant Time: Jul 24 04:56:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

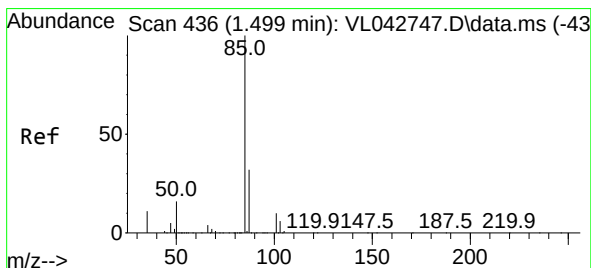
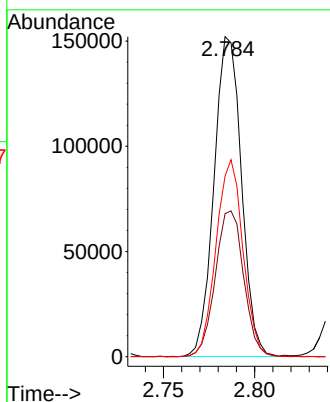
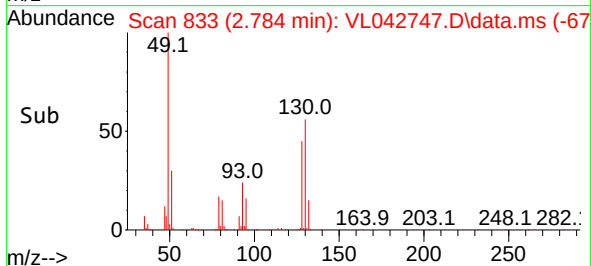
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



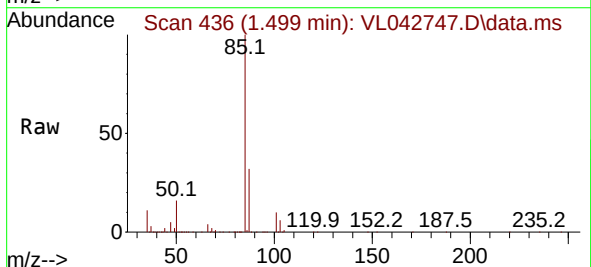
Tgt Ion: 49 Resp: 159080
Ion Ratio Lower Upper
49 100
128 47.3 23.6 71.0
130 60.5 30.3 90.8

Manual Integrations
APPROVED

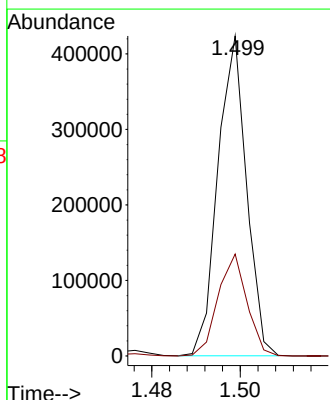
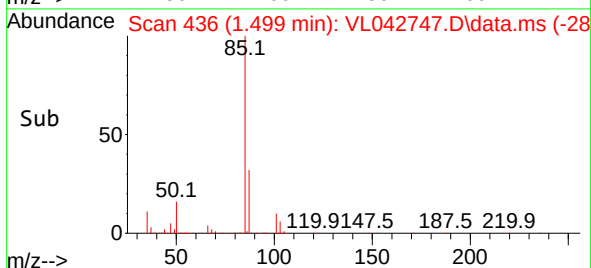
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

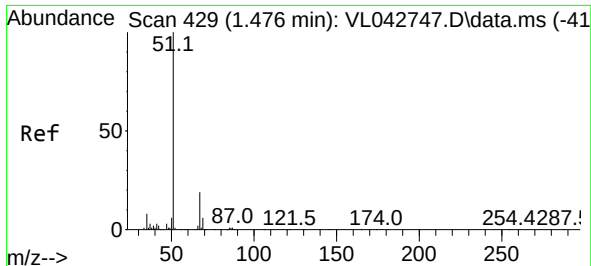


#2
Dichlorodifluoromethane
Concen: 9.062 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion: 85 Resp: 190592
Ion Ratio Lower Upper
85 100
87 31.8 25.4 38.2





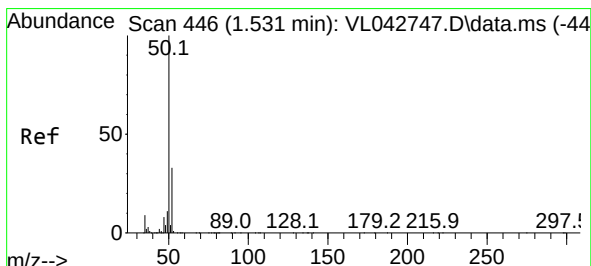
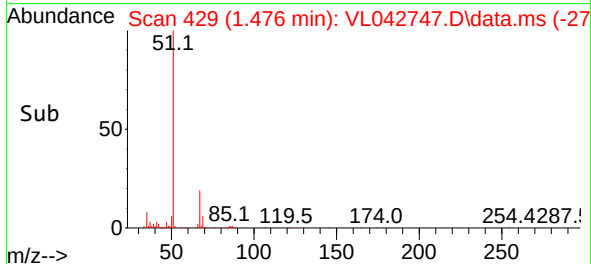
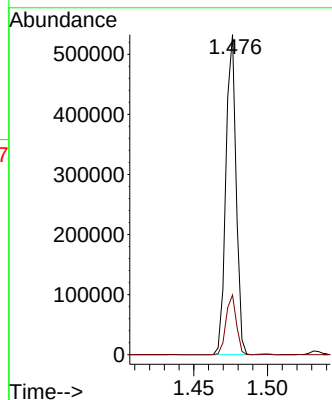
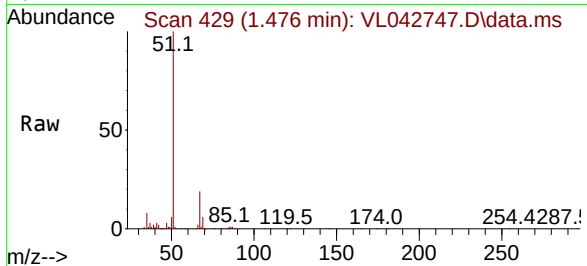
#3
Chlorodifluoromethane
Concen: 9.436 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 25854
Ion Ratio Lower Upper
51 100
67 18.8 15.0 22.6

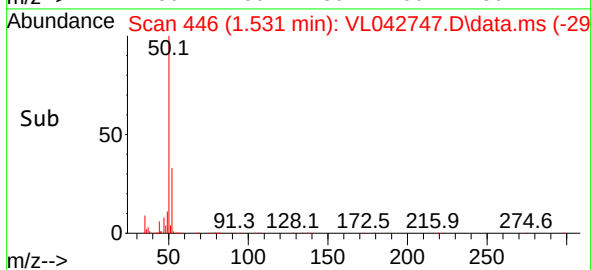
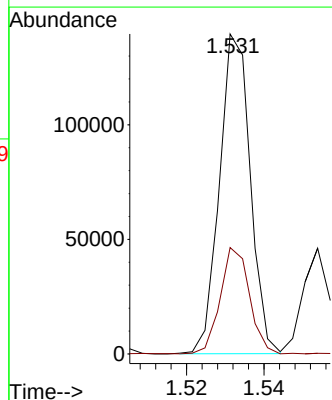
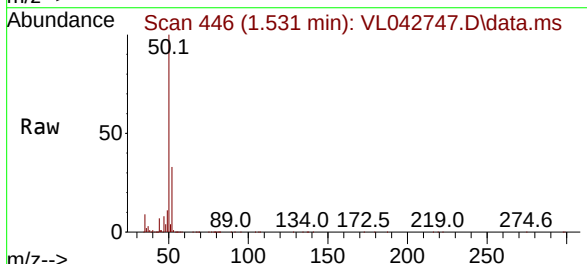
Manual Integrations
APPROVED

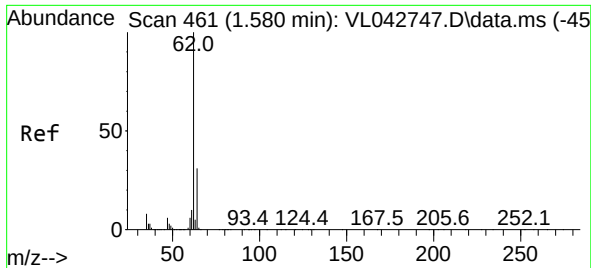
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#4
Chloromethane
Concen: 9.050 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 50 Resp: 77006
Ion Ratio Lower Upper
50 100
52 33.3 26.6 40.0





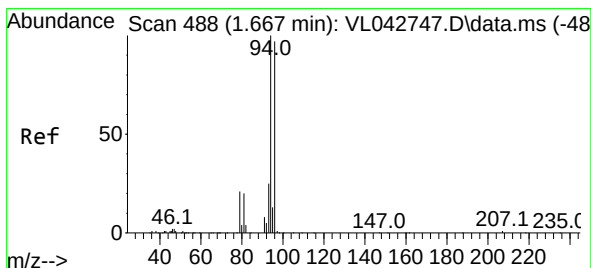
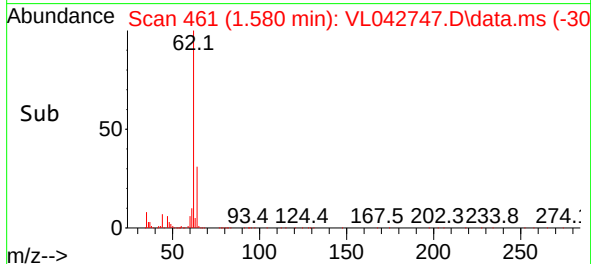
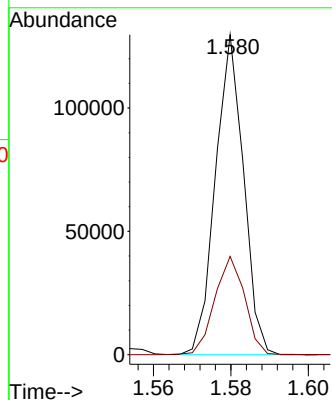
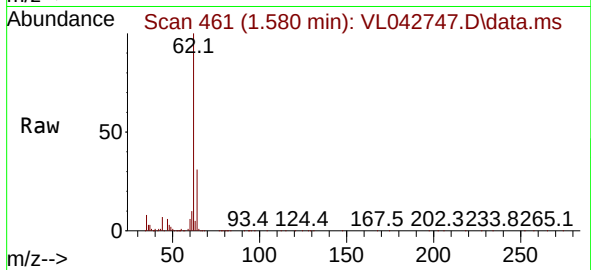
#5
 Vinyl Chloride
 Concen: 7.773 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 62 Resp: 65340
 Ion Ratio Lower Upper
 62 100
 64 30.6 24.5 36.7

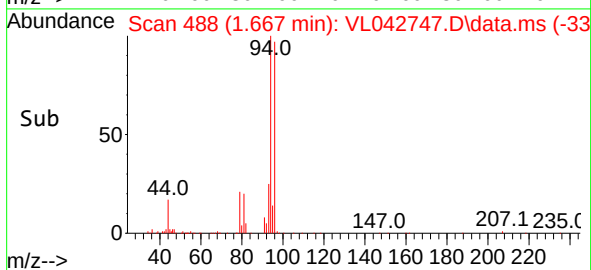
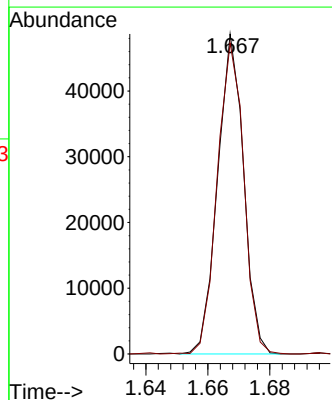
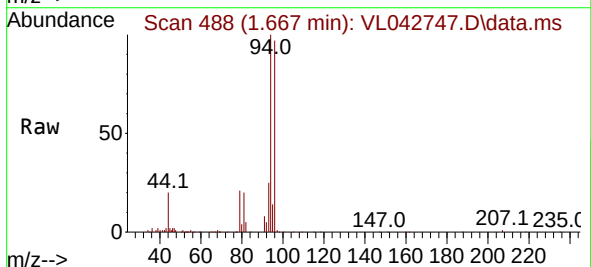
Manual Integrations
 APPROVED

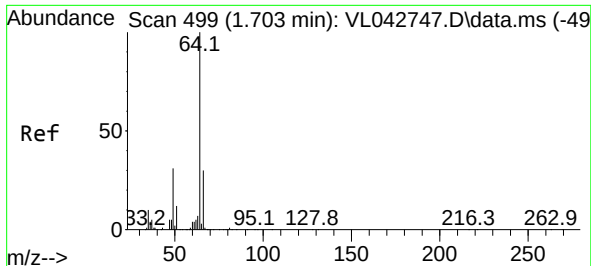
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#6
 Bromomethane
 Concen: 8.705 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion: 94 Resp: 28292
 Ion Ratio Lower Upper
 94 100
 96 97.0 77.6 116.4





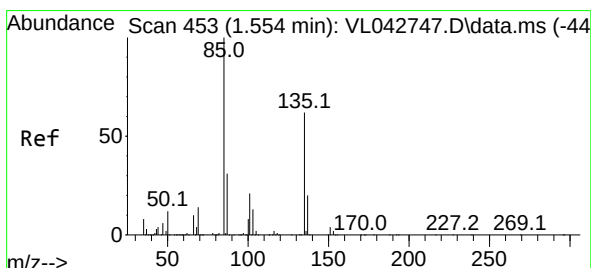
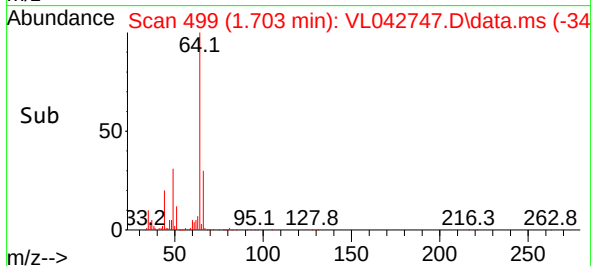
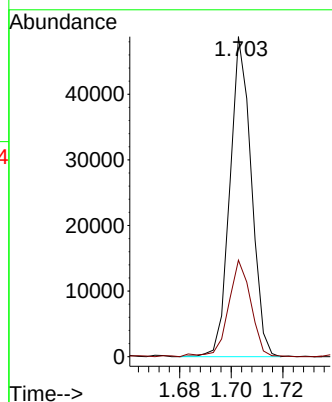
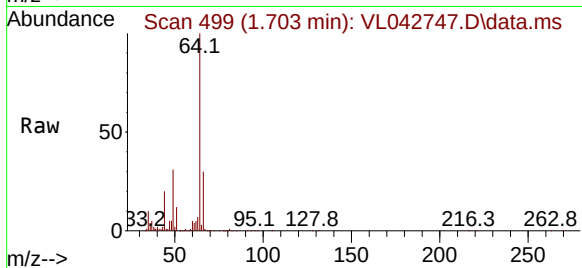
#7
Chloroethane
Concen: 8.646 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 64 Resp: 28085
Ion Ratio Lower Upper
64 100
66 30.1 24.1 36.1

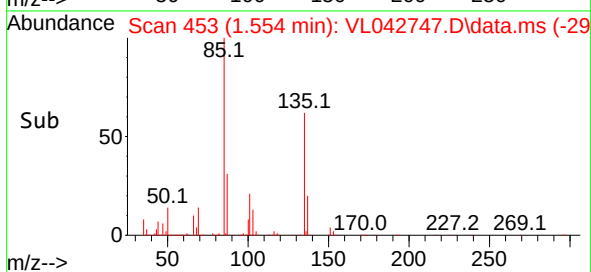
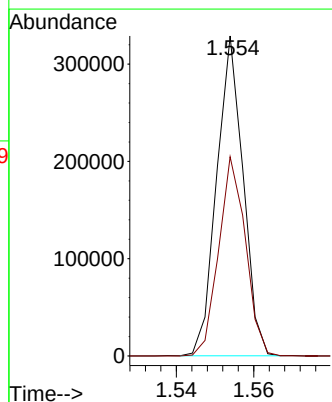
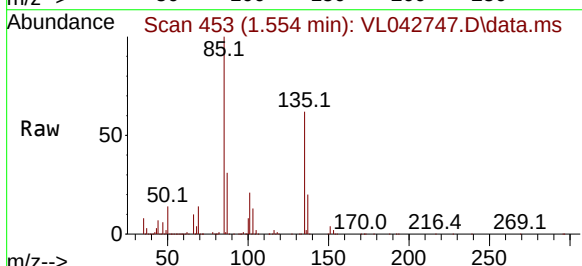
Manual Integrations
APPROVED

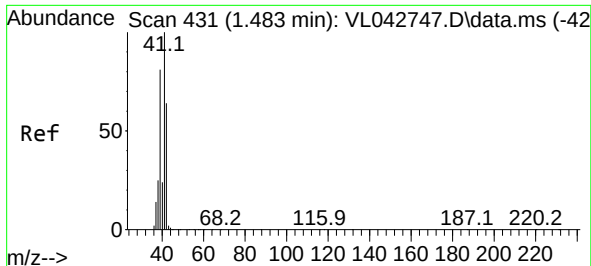
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#8
Dichlorotetrafluoroethane
Concen: 9.011 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 85 Resp: 155875
Ion Ratio Lower Upper
85 100
135 63.3 50.6 76.0





#9

Propene

Concen: 9.488 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 41 Resp: 94480

Ion Ratio Lower Upper

41 100

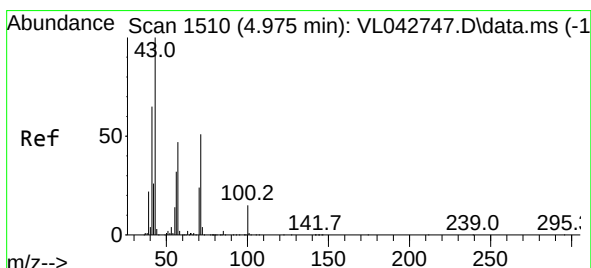
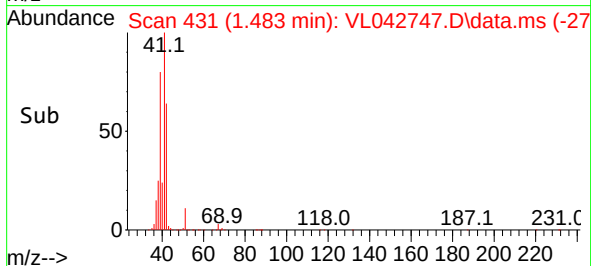
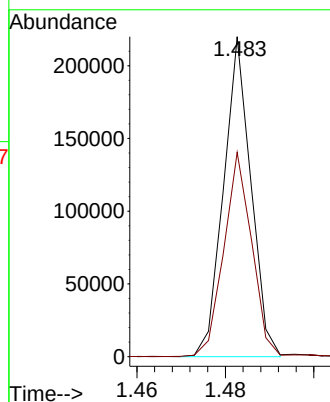
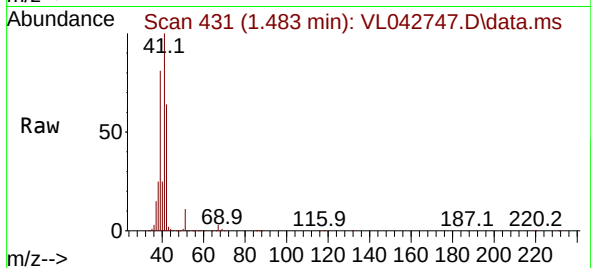
42 66.5 53.2 79.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#10

Heptane

Concen: 9.701 ppbv

RT: 4.975 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VL042747.D

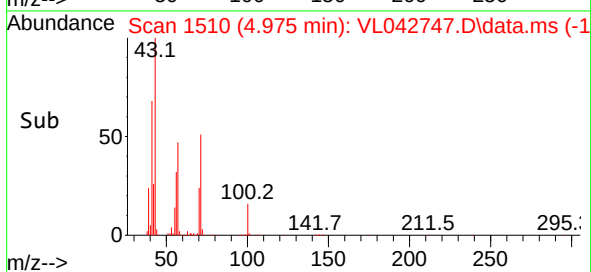
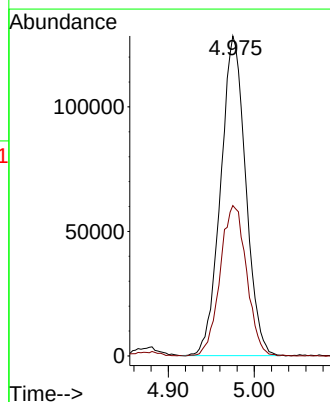
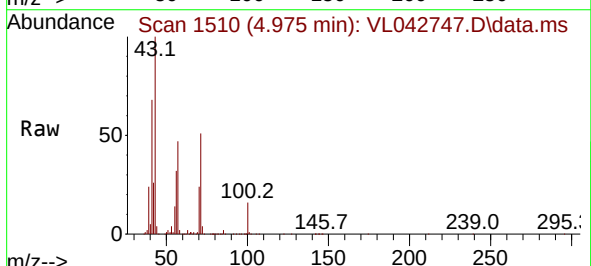
Acq: 23 Jul 2025 08:58

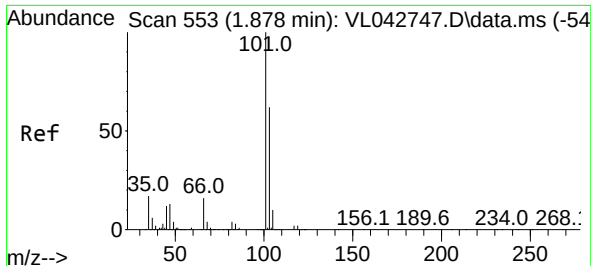
Tgt Ion: 43 Resp: 259821

Ion Ratio Lower Upper

43 100

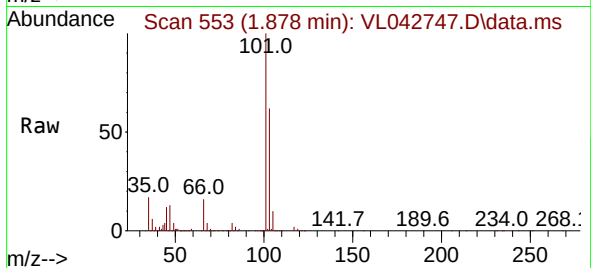
57 49.9 39.9 59.9





#11
Trichlorofluoromethane
Concen: 8.992 ppbv
RT: 1.878 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

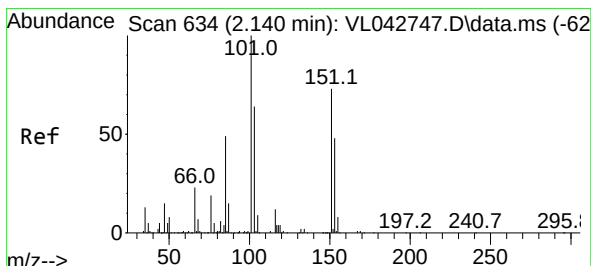
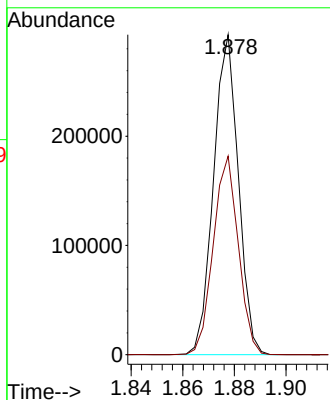
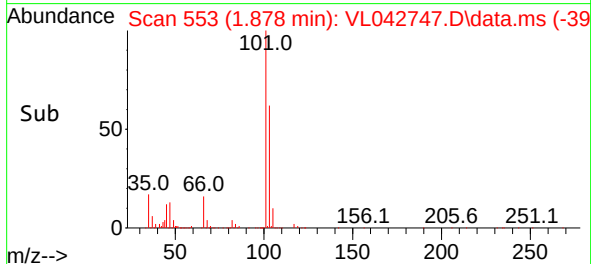
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



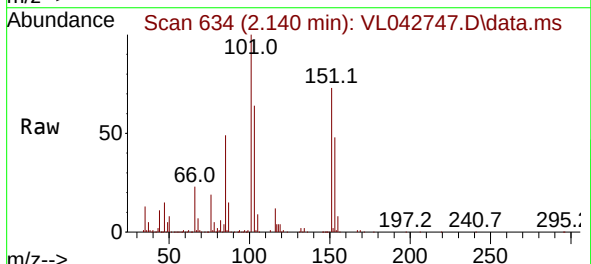
Tgt Ion:101 Resp: 194964
Ion Ratio Lower Upper
101 100
103 62.0 49.6 74.4

Manual Integrations
APPROVED

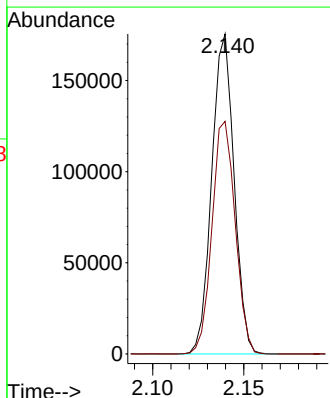
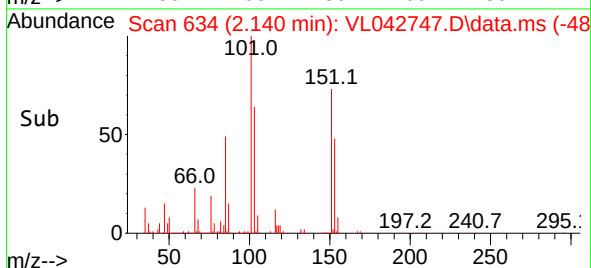
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

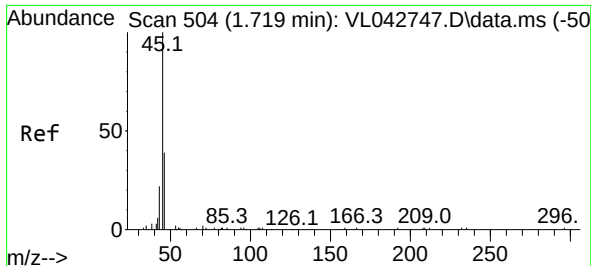


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.081 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



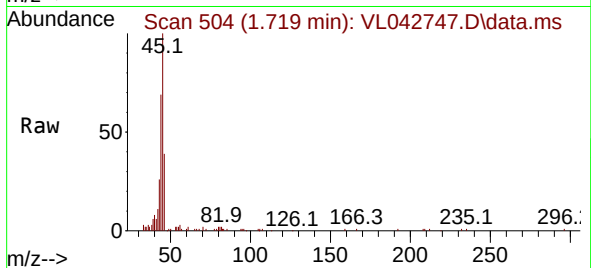
Tgt Ion:101 Resp: 149612
Ion Ratio Lower Upper
101 100
151 75.6 60.5 90.7





#13
Ethanol
Concen: 9.867 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

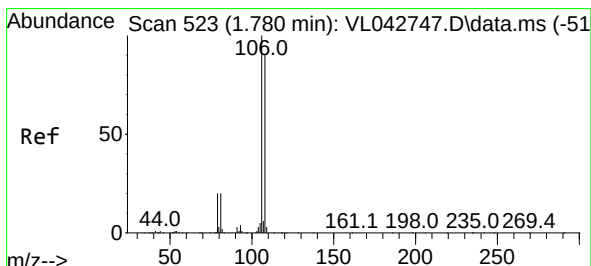
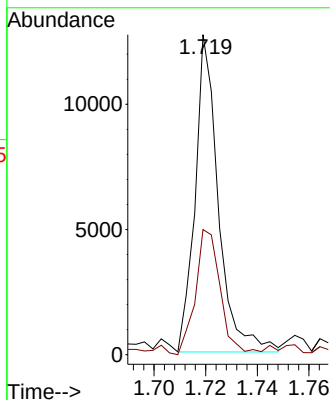
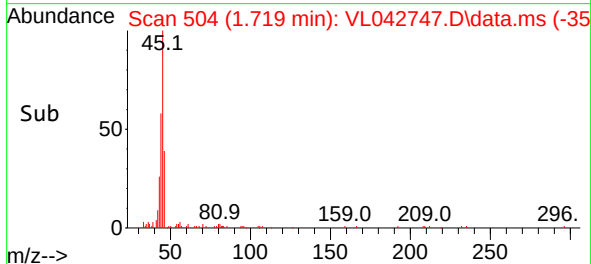
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



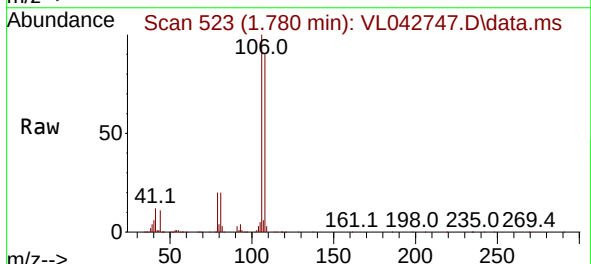
Tgt Ion: 45 Resp: 7949
Ion Ratio Lower Upper
45 100
46 46.5 17.8 71.4

Manual Integrations
APPROVED

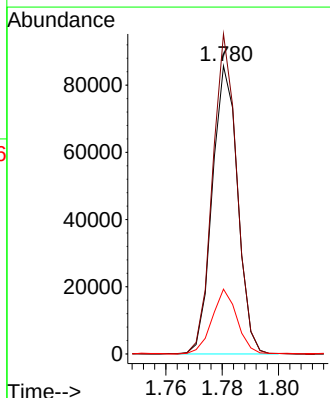
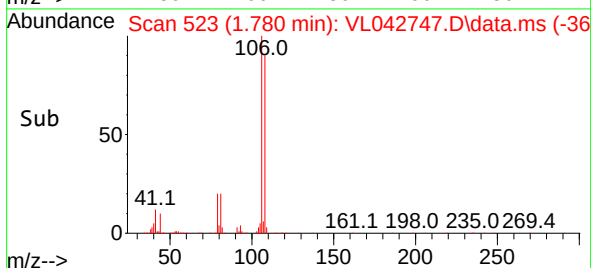
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

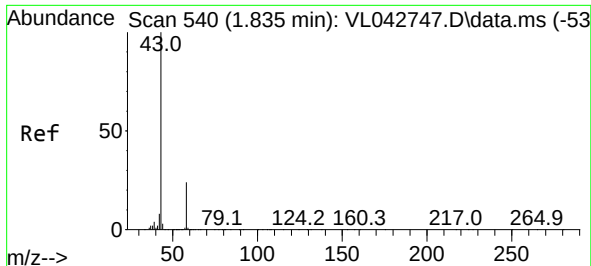


#14
Bromoethene
Concen: 9.193 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



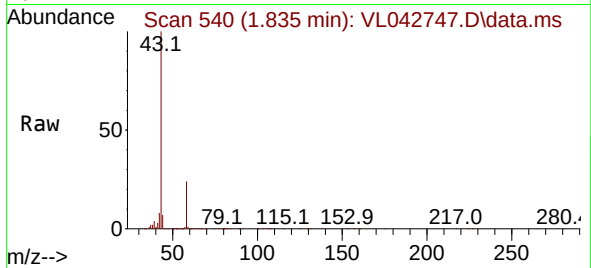
Tgt Ion:108 Resp: 53625
Ion Ratio Lower Upper
108 100
106 105.9 84.7 127.1
79 21.8 17.4 26.2





#15
Acetone
Concen: 7.225 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

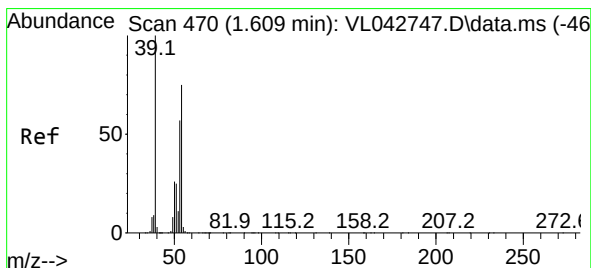
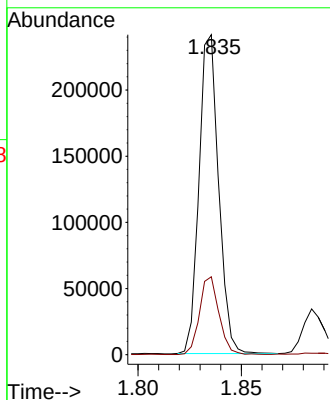
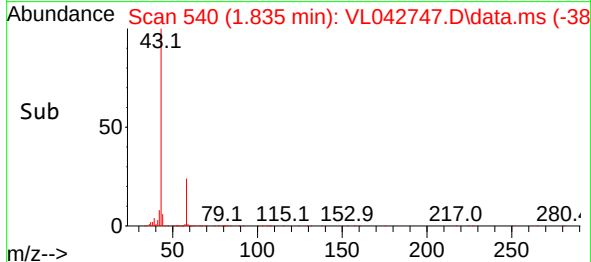
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



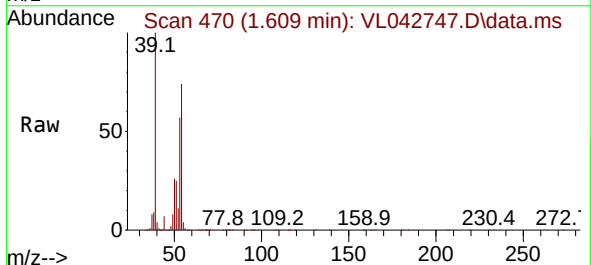
Tgt Ion: 43 Resp: 158714
Ion Ratio Lower Upper
43 100
58 24.8 19.8 29.8

Manual Integrations
APPROVED

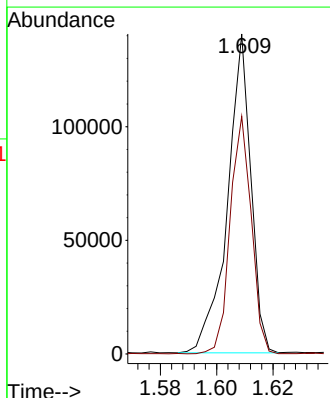
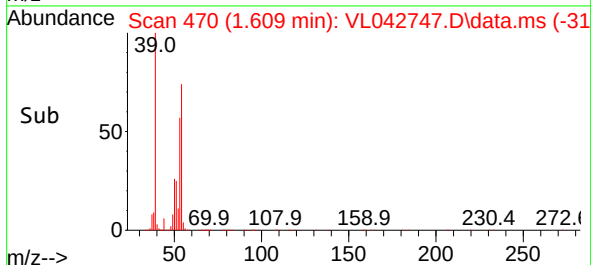
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

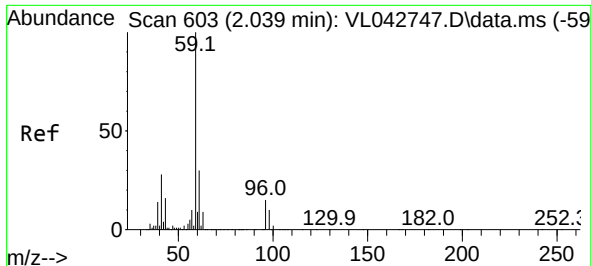


#16
1,3-Butadiene
Concen: 8.642 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion: 39 Resp: 80968
Ion Ratio Lower Upper
39 100
54 68.1 54.5 81.7





#17

tert-Butyl alcohol

Concen: 9.351 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 59 Resp: 18526

Ion Ratio Lower Upper

59 100

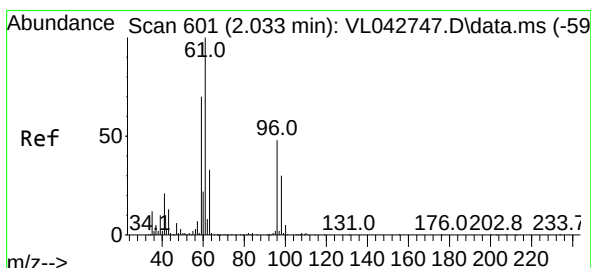
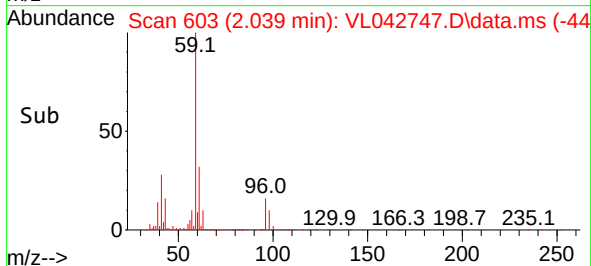
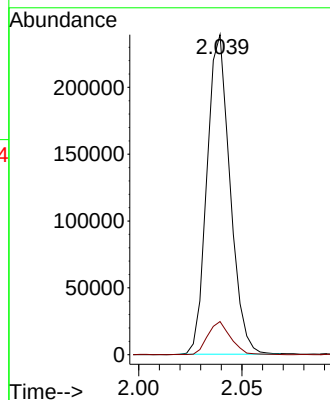
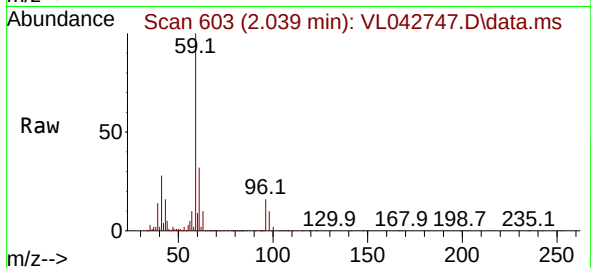
57 10.4 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#18

1,1-Dichloroethene

Concen: 8.627 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

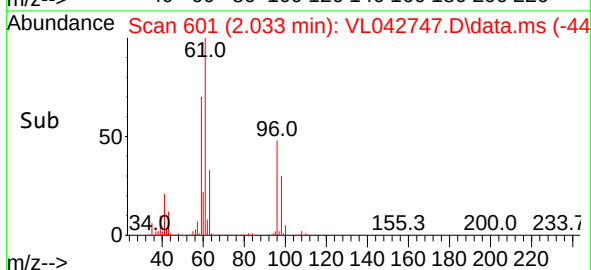
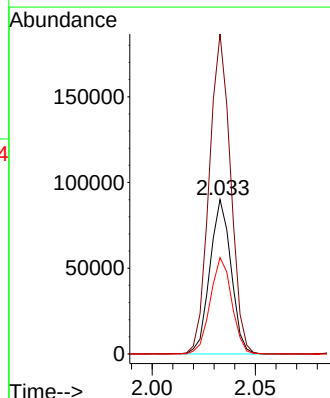
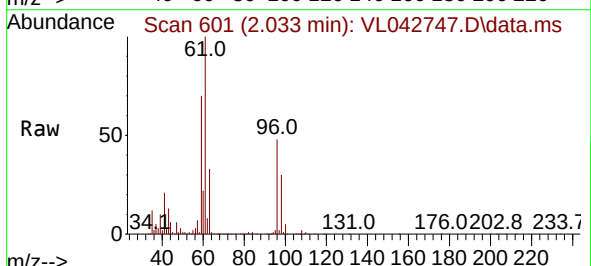
Tgt Ion: 96 Resp: 64224

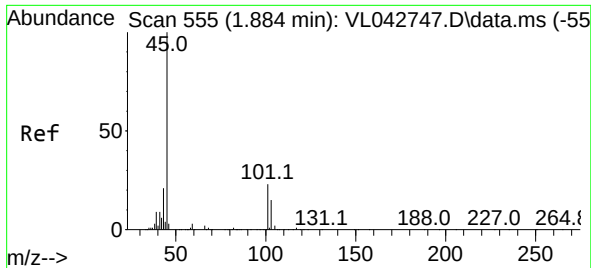
Ion Ratio Lower Upper

96 100

61 207.2 165.8 248.6

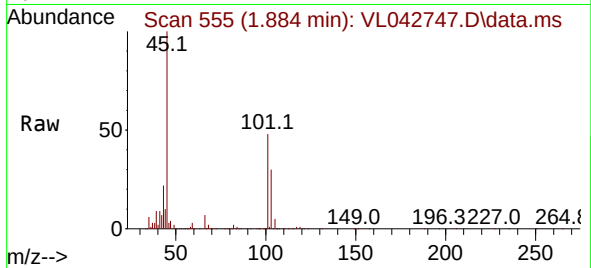
98 62.4 49.9 74.9





#19
Isopropyl Alcohol
Concen: 8.987 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

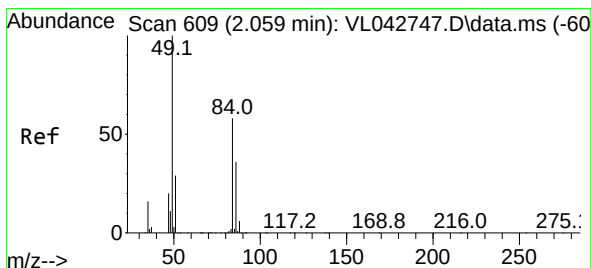
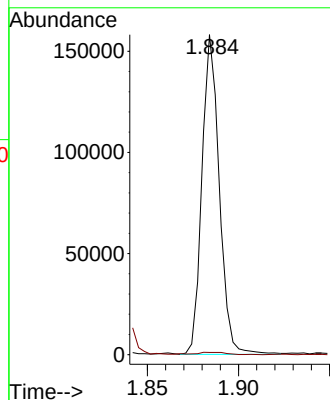
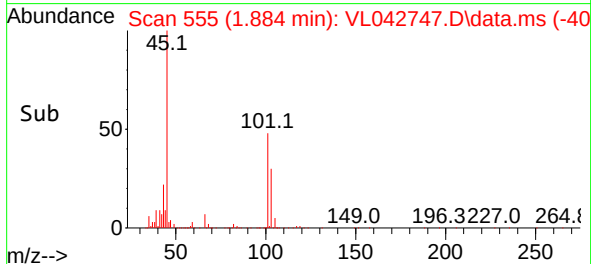
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



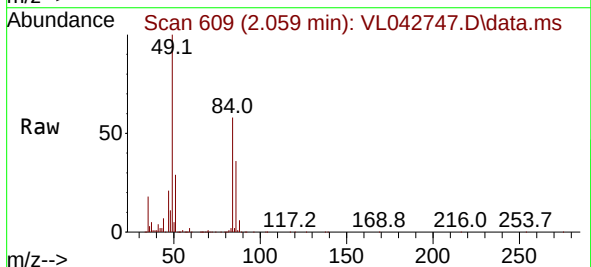
Tgt Ion: 45 Resp: 104900
Ion Ratio Lower Upper
45 100
58 37.5 30.0 45.0

Manual Integrations
APPROVED

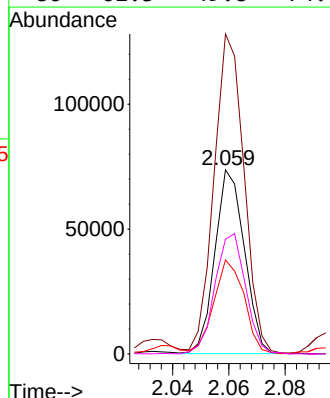
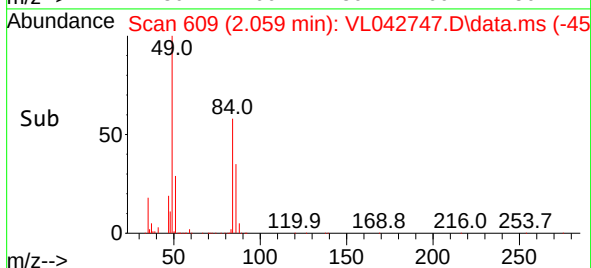
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

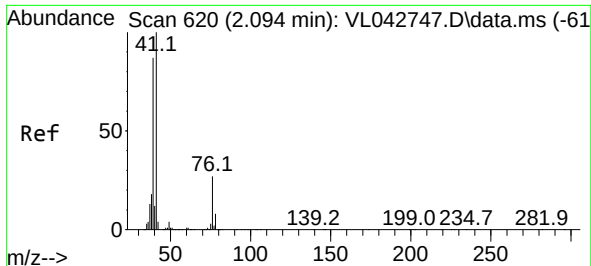


#20
Methylene Chloride
Concen: 7.740 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion: 84 Resp: 53581
Ion Ratio Lower Upper
84 100
49 173.3 138.6 208.0
51 50.8 40.6 61.0
86 62.3 49.8 74.8





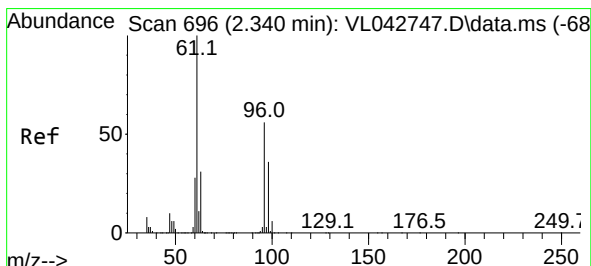
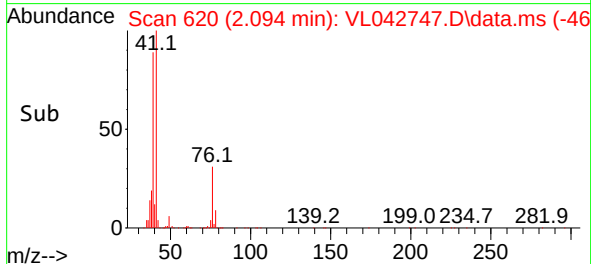
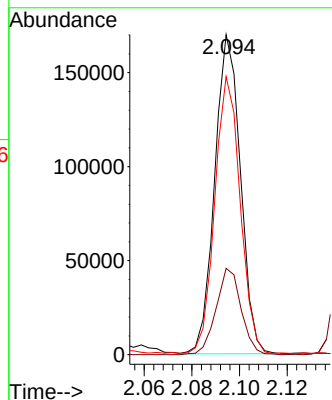
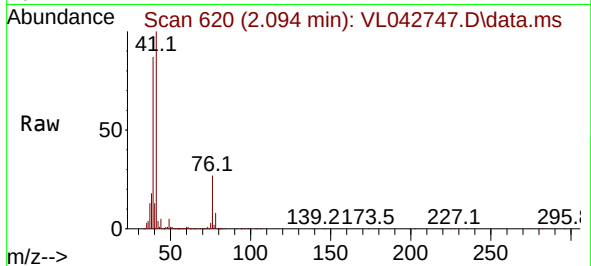
#21
 Allyl Chloride
 Concen: 9.382 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 41 Resp: 12702
 Ion Ratio Lower Upper
 41 100
 76 26.4 21.1 31.7
 39 85.4 68.3 102.5

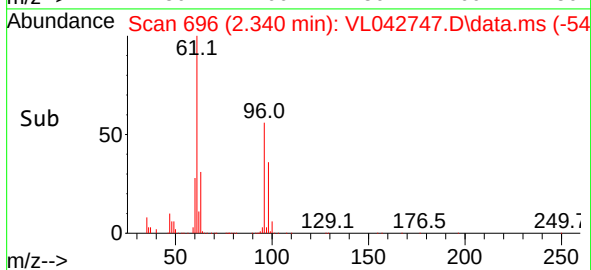
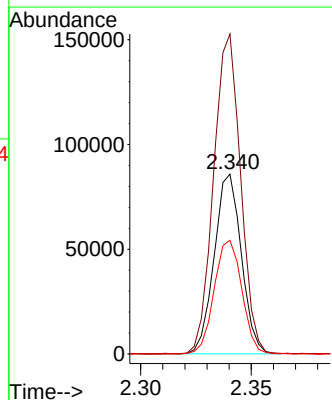
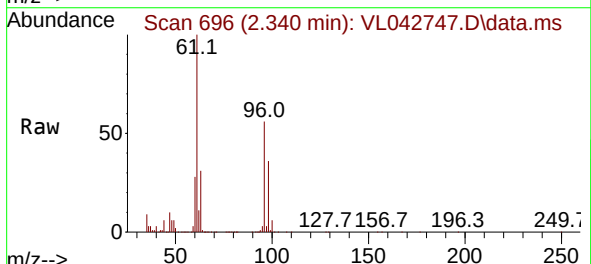
Manual Integrations
 APPROVED

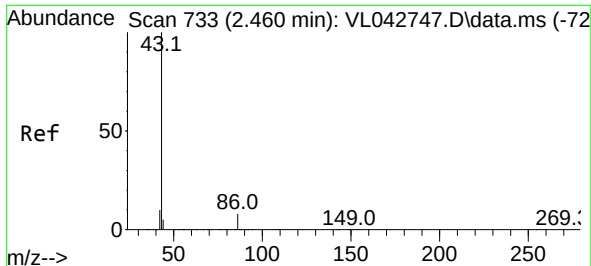
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.148 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

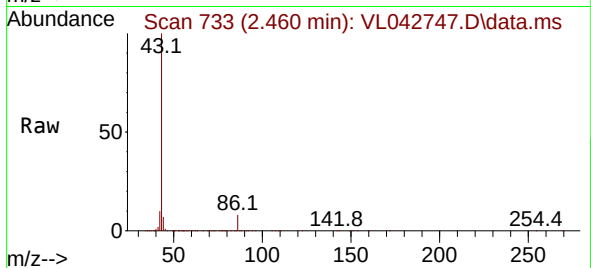
Tgt Ion: 96 Resp: 73152
 Ion Ratio Lower Upper
 96 100
 61 177.9 142.3 213.5
 98 63.3 50.6 76.0





#23
 Vinyl Acetate
 Concen: 10.181 ppbv
 RT: 2.460 min Scan# 711
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

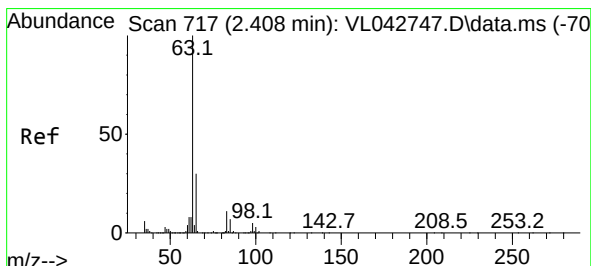
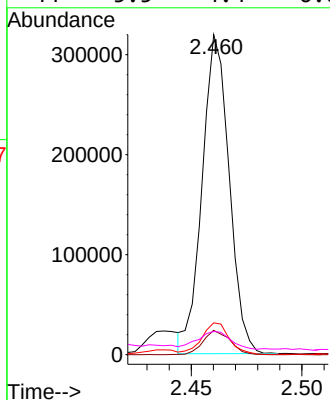
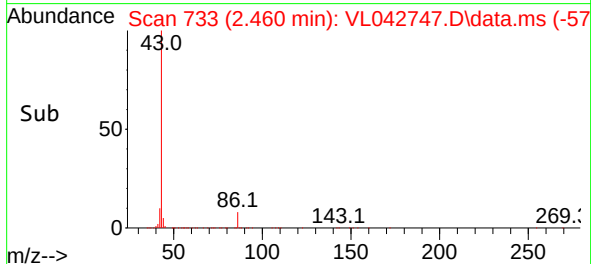
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:	43	Resp:	271125
Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.1	9.1
42	9.8	7.8	11.8
44	5.5	4.4	6.6

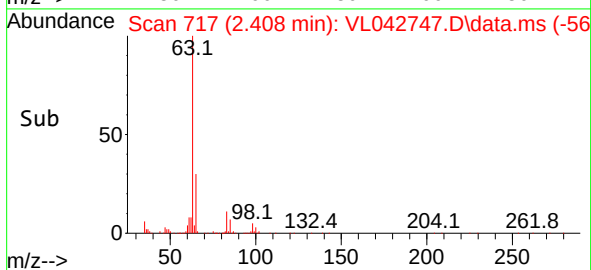
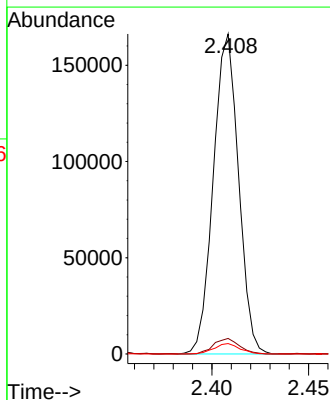
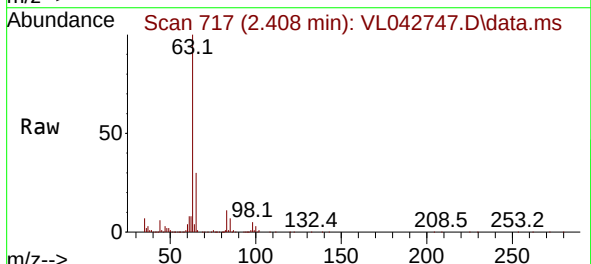
Manual Integrations
 APPROVED

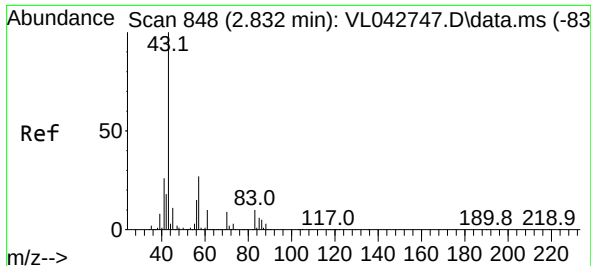
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#24
 1,1-Dichloroethane
 Concen: 9.141 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

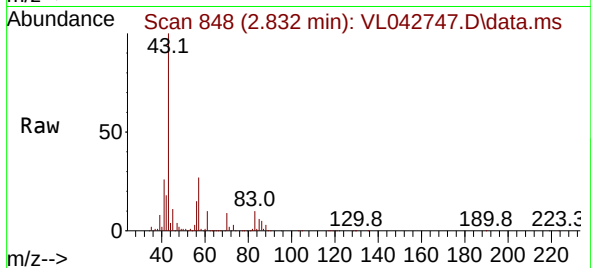
Tgt Ion:	63	Resp:	150257
Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.5	7.4
100	3.2	1.6	4.8





#25
Ethyl Acetate
Concen: 9.666 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

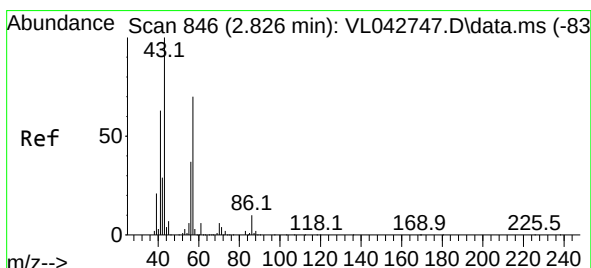
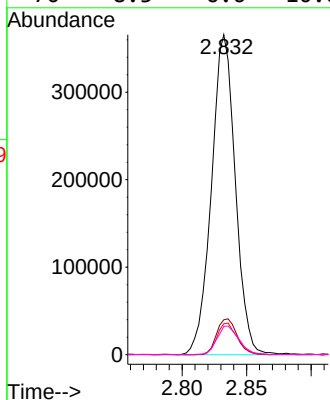
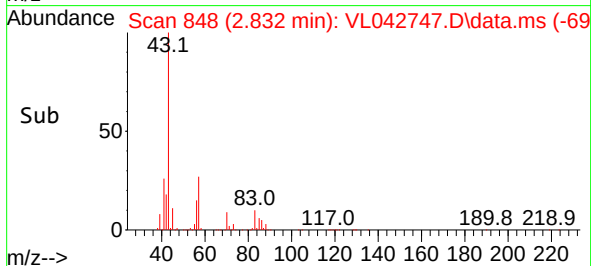
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



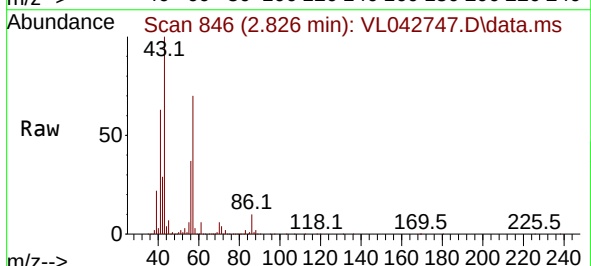
Tgt Ion: 43 Resp: 46999
Ion Ratio Lower Upper
43 100
45 9.7 7.8 11.6
61 8.4 6.7 10.1
70 8.3 6.6 10.0

Manual Integrations
APPROVED

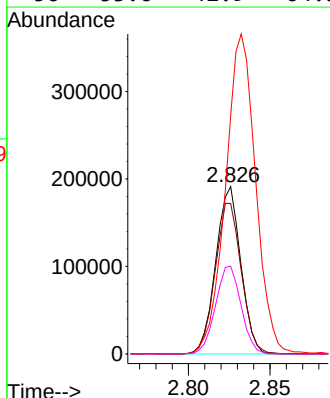
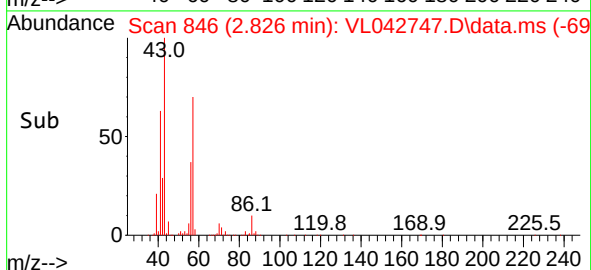
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

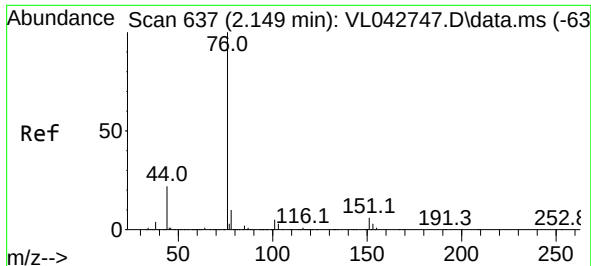


#26
Hexane
Concen: 9.555 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



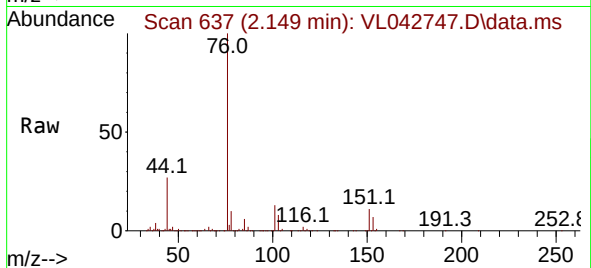
Tgt Ion: 57 Resp: 203800
Ion Ratio Lower Upper
57 100
41 94.3 75.4 113.2
43 231.3 185.0 277.6
56 53.6 42.9 64.3





#27
Carbon Disulfide
Concen: 9.480 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

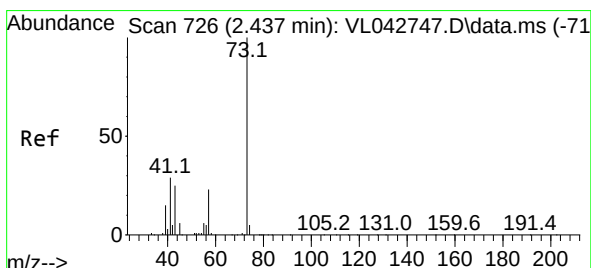
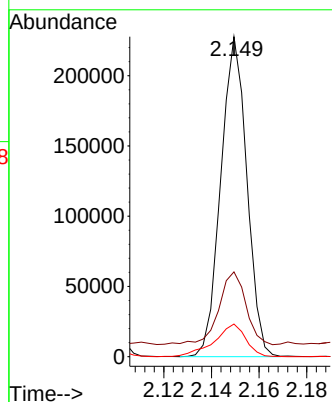
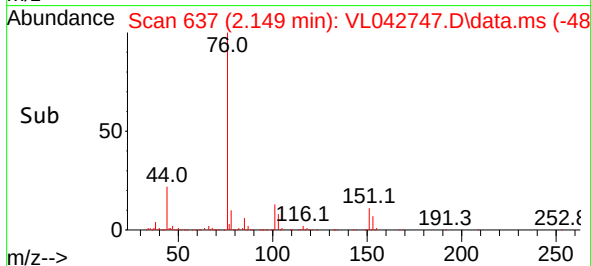
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 76 Resp: 17310
Ion Ratio Lower Upper
76 100
44 24.1 19.3 28.9
78 12.4 9.9 14.9

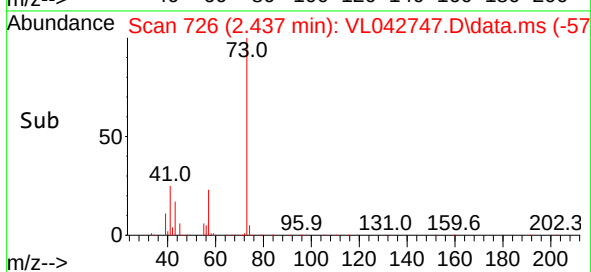
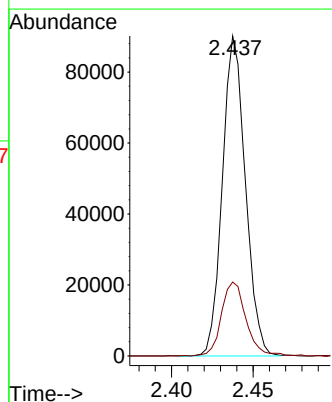
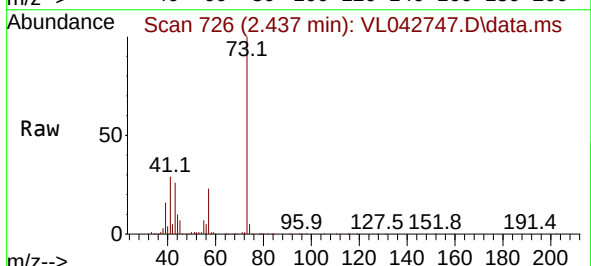
Manual Integrations
APPROVED

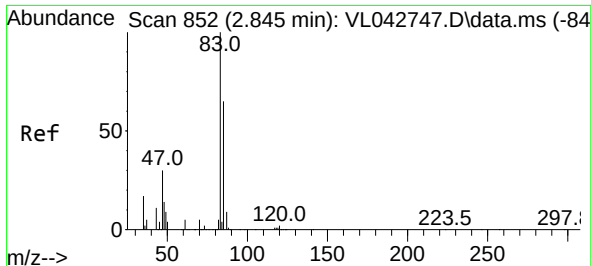
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#28
Methyl tert-Butyl Ether
Concen: 8.770 ppbv
RT: 2.437 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

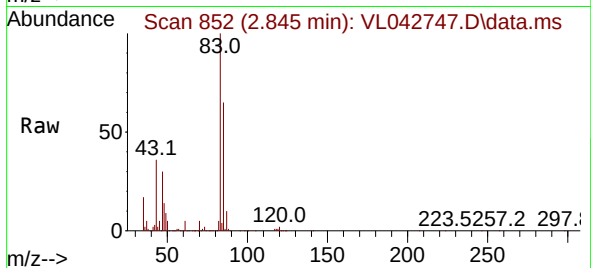
Tgt Ion: 73 Resp: 88372
Ion Ratio Lower Upper
73 100
57 24.8 19.8 29.8





#29
Chloroform
Concen: 9.244 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

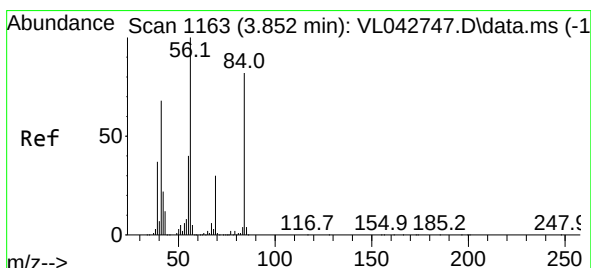
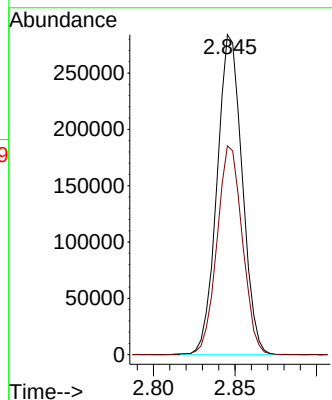
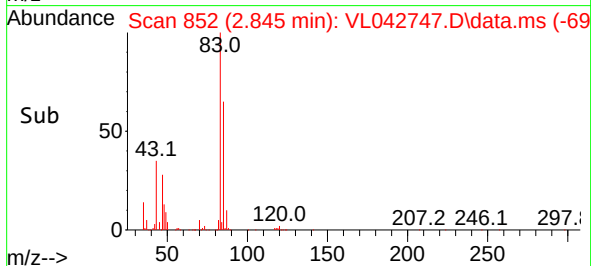
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 83 Resp: 304670
Ion Ratio Lower Upper
83 100
85 65.2 52.2 78.2

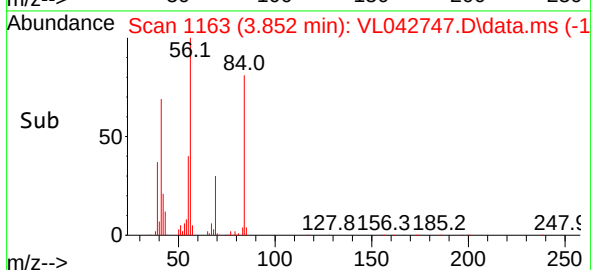
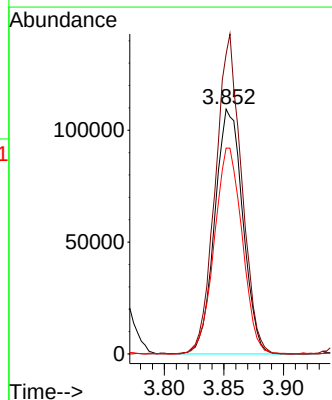
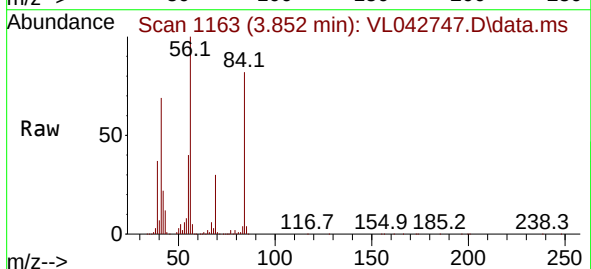
Manual Integrations
APPROVED

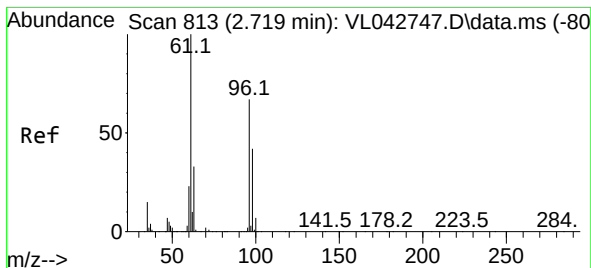
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#30
Cyclohexane
Concen: 9.892 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 84 Resp: 178948
Ion Ratio Lower Upper
84 100
56 121.9 97.5 146.3
41 84.0 67.2 100.8





#31

cis-1,2-Dichloroethene

Concen: 9.479 ppbv

RT: 2.719 min Scan# 813

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 61 Resp: 20775

Ion Ratio Lower Upper

61 100

96 66.9 53.5 80.3

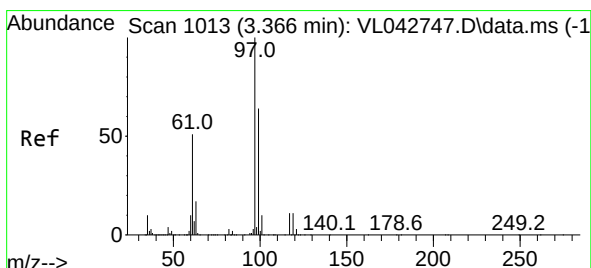
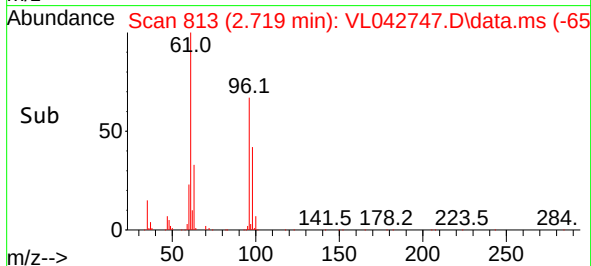
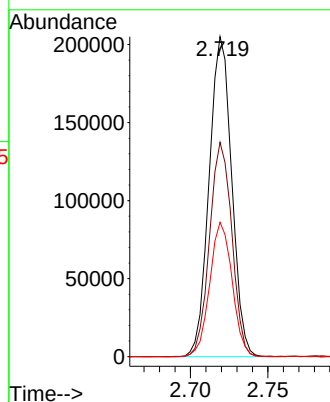
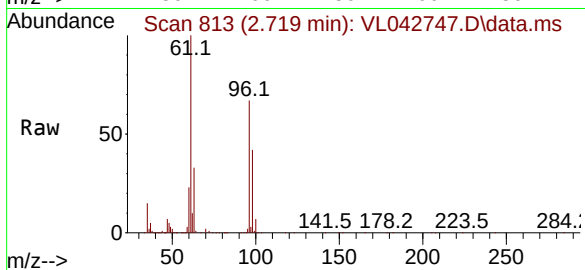
98 42.0 33.6 50.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#32

1,1,1-Trichloroethane

Concen: 9.069 ppbv

RT: 3.366 min Scan# 1013

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

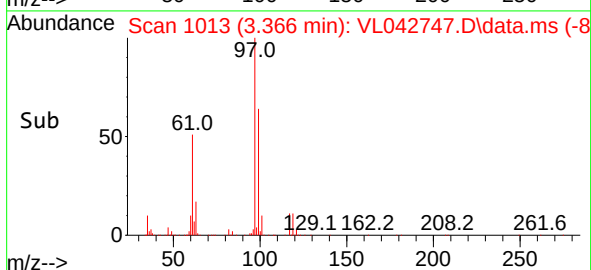
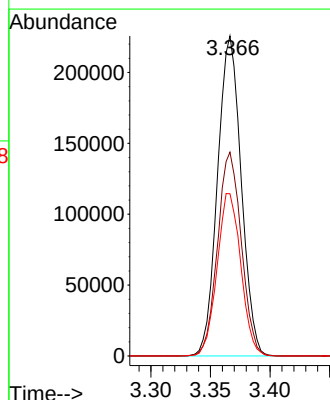
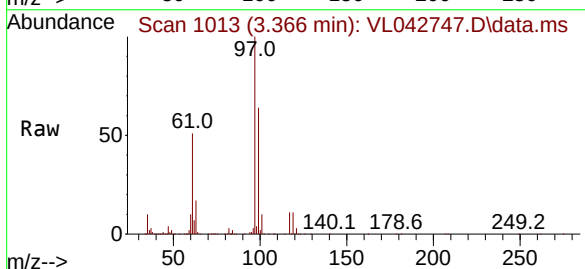
Tgt Ion: 97 Resp: 311368

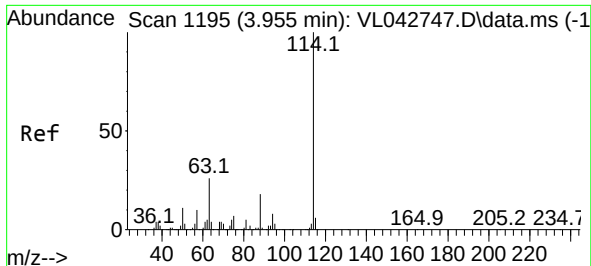
Ion Ratio Lower Upper

97 100

99 63.8 51.0 76.6

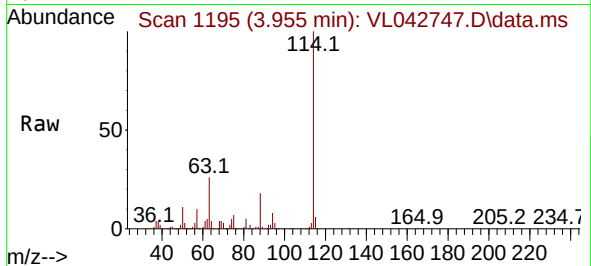
61 51.1 40.9 61.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

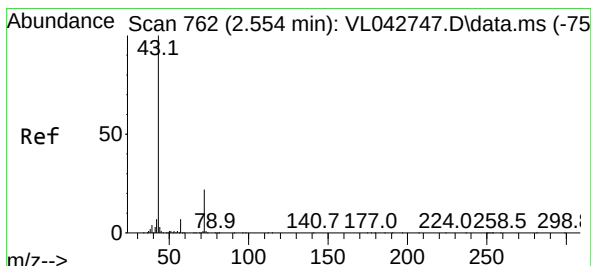
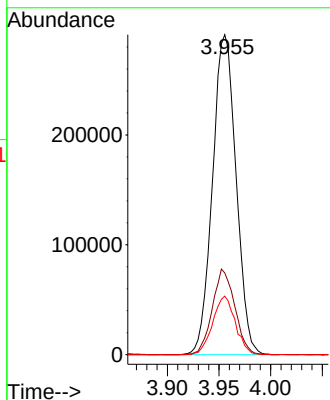
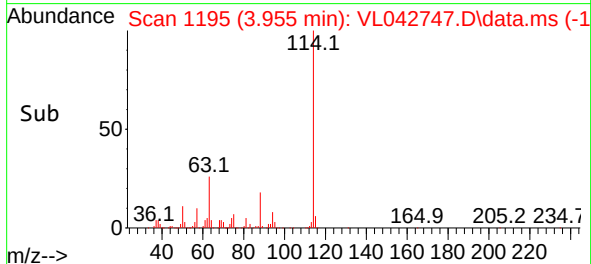
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



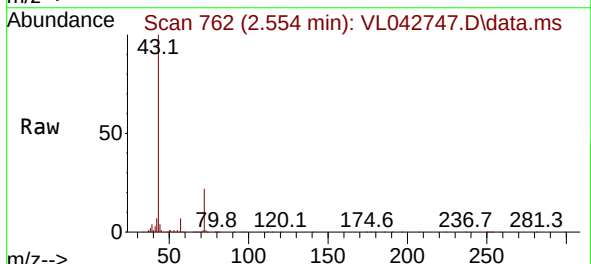
Tgt Ion:114 Resp: 462763
Ion Ratio Lower Upper
114 100
63 25.6 20.5 30.7
88 17.5 14.0 21.0

Manual Integrations
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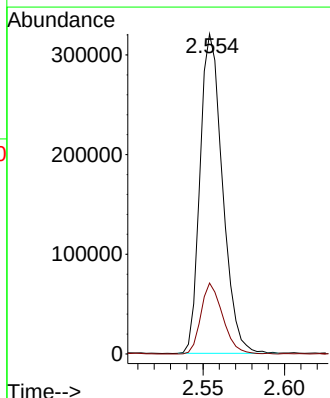
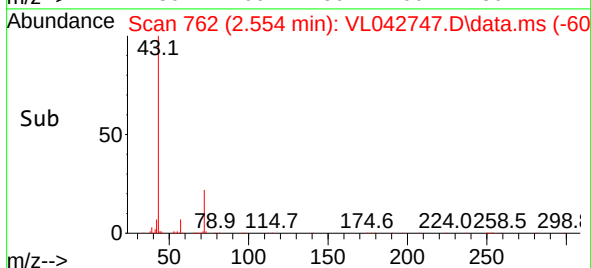
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

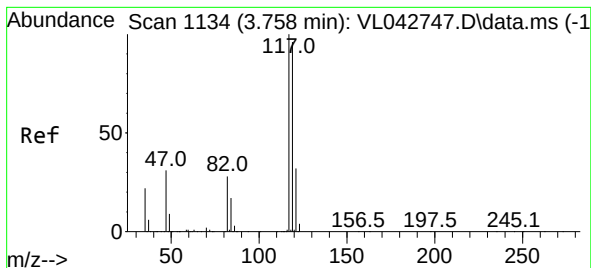


#34
2-Butanone
Concen: 9.361 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion: 43 Resp: 306858
Ion Ratio Lower Upper
43 100
72 21.7 17.4 26.0





#35

Carbon Tetrachloride

Concen: 9.436 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:117 Resp: 32450

Ion Ratio Lower Upper

117 100

119 96.4 77.1 115.7

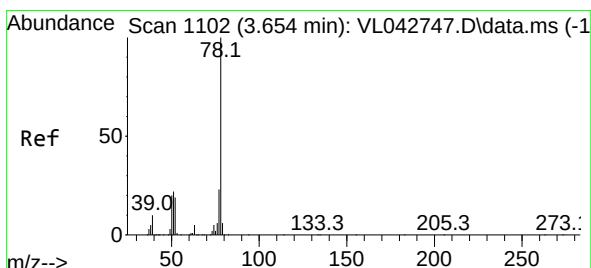
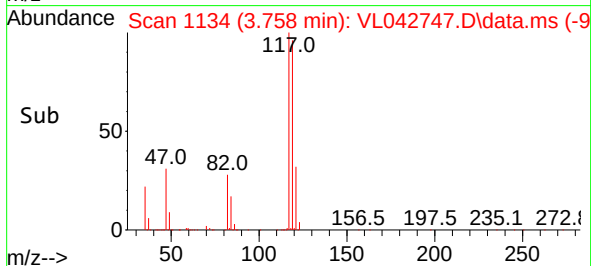
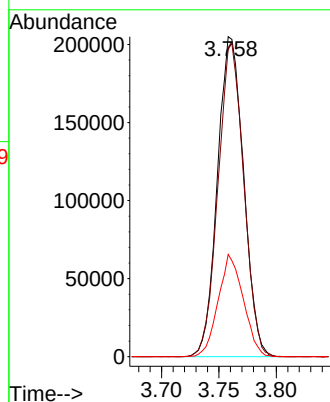
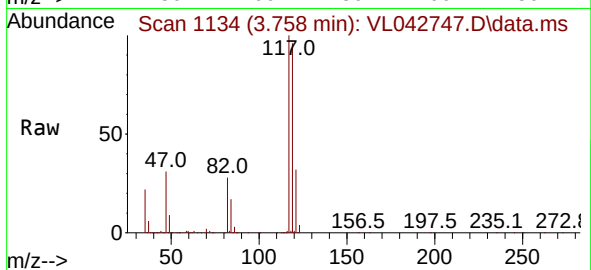
121 31.9 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#36

Benzene

Concen: 9.459 ppbv

RT: 3.654 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

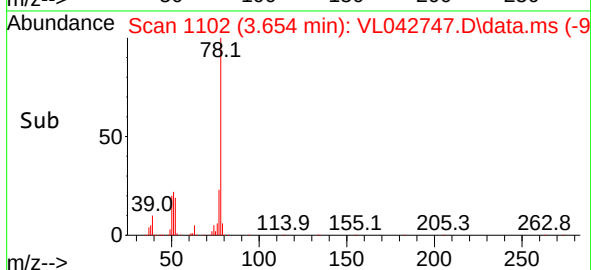
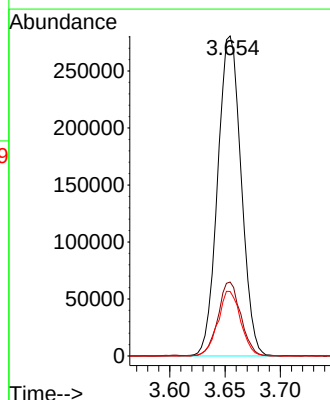
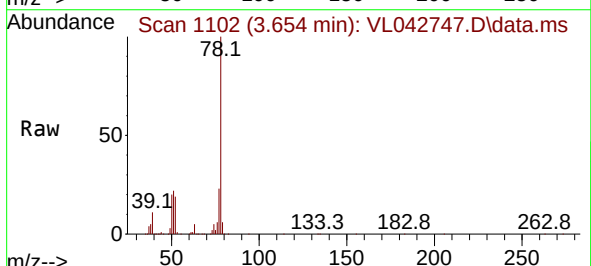
Tgt Ion: 78 Resp: 414863

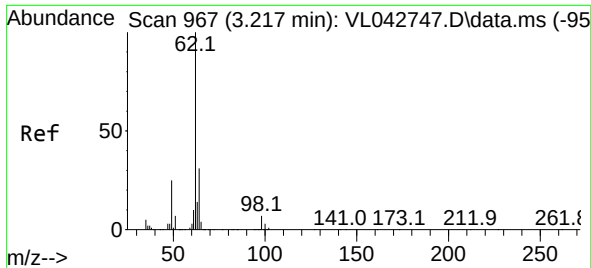
Ion Ratio Lower Upper

78 100

77 23.1 18.5 27.7

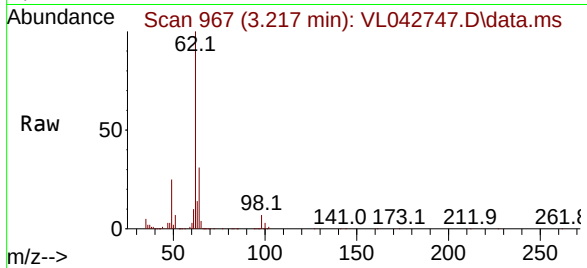
50 20.2 16.2 24.2





#37
1,2-Dichloroethane
Concen: 9.403 ppbv
RT: 3.217 min Scan# 967
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

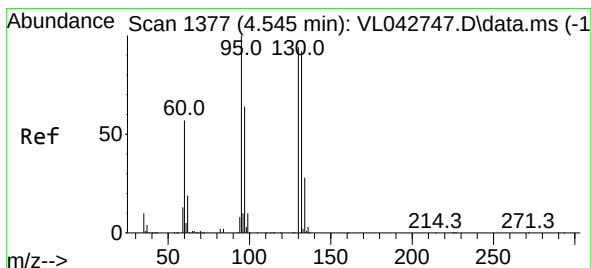
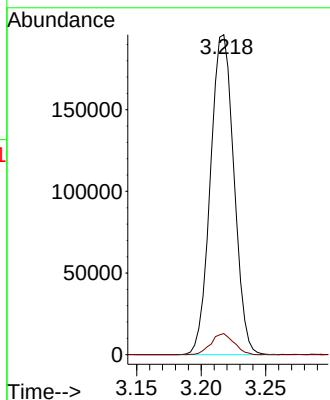
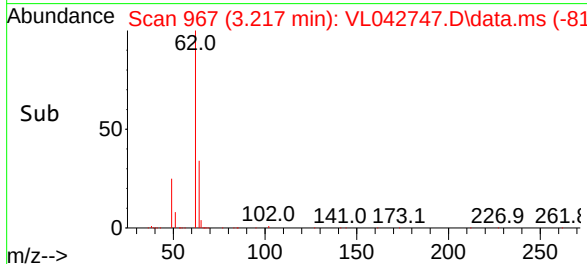
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



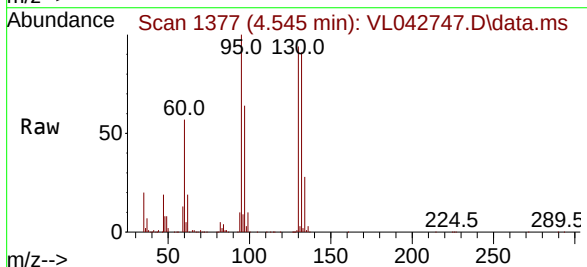
Tgt Ion: 62 Resp: 248414
Ion Ratio Lower Upper
62 100
98 6.5 5.2 7.8

Manual Integrations
APPROVED

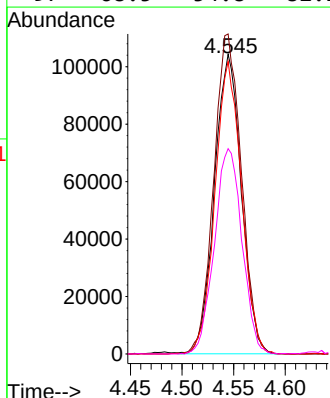
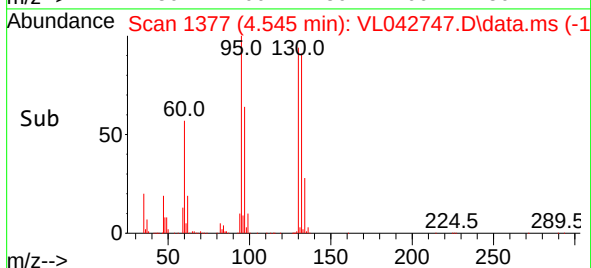
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

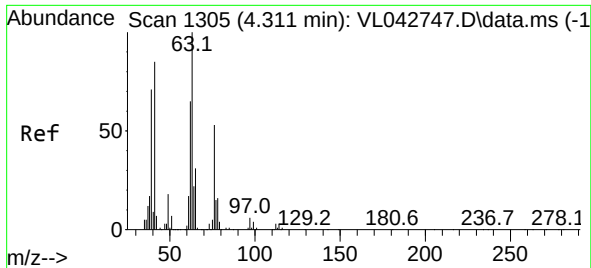


#38
Trichloroethene
Concen: 8.926 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



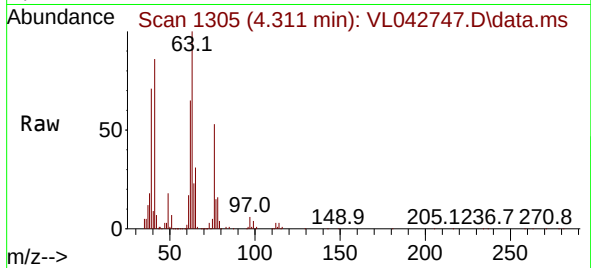
Tgt Ion:130 Resp: 188750
Ion Ratio Lower Upper
130 100
95 106.8 85.4 128.2
132 97.7 78.2 117.2
97 68.5 54.8 82.2





#39
1,2-Dichloropropane
Concen: 9.251 ppbv
RT: 4.311 min Scan# 1305
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

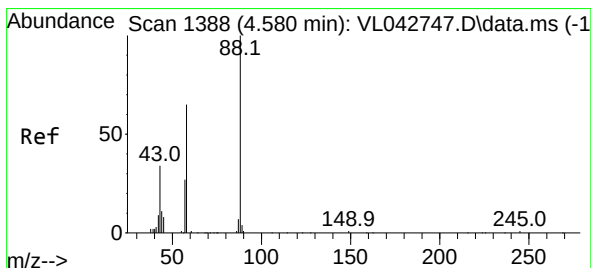
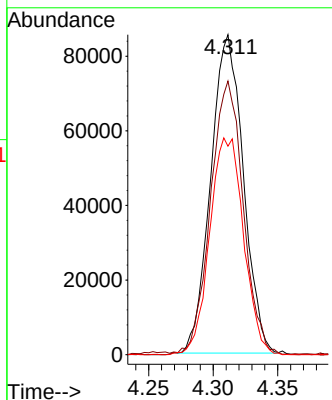
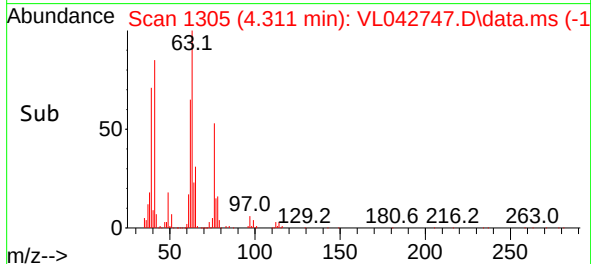
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 63 Resp: 14977
Ion Ratio Lower Upper
63 100
41 85.3 68.2 102.4
62 65.0 52.0 78.0

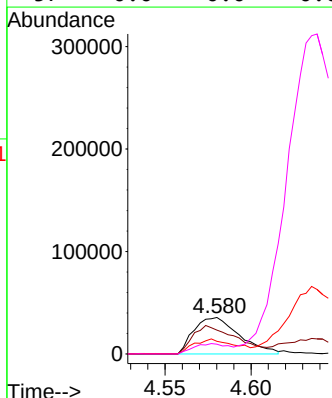
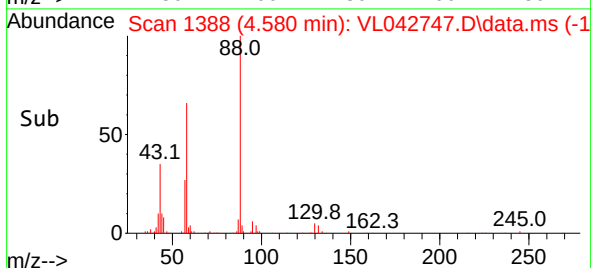
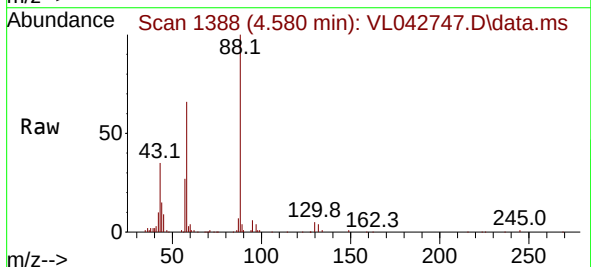
Manual Integrations
APPROVED

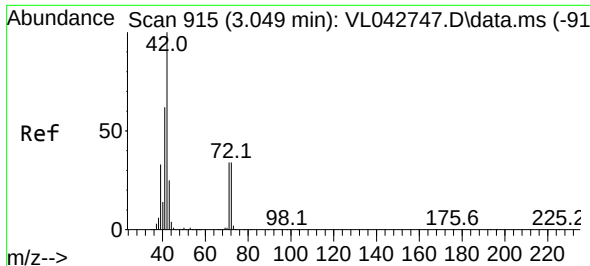
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#40
1,4-Dioxane
Concen: 8.569 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

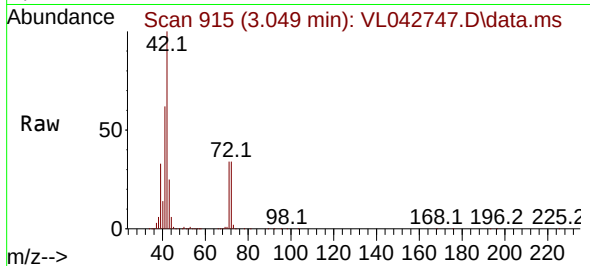
Tgt Ion: 88 Resp: 65413
Ion Ratio Lower Upper
88 100
58 73.5 58.8 88.2
43 36.1 28.9 43.3
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 10.160 ppbv
RT: 3.049 min Scan# 915
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

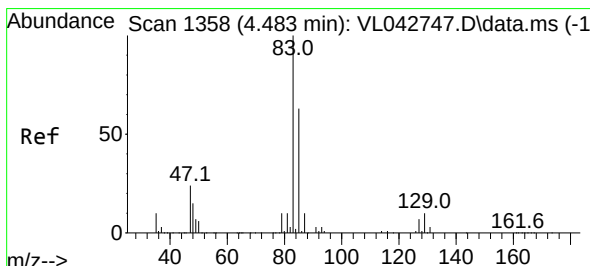
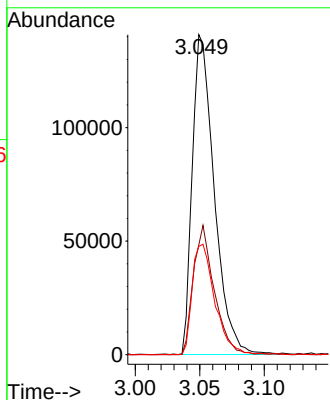
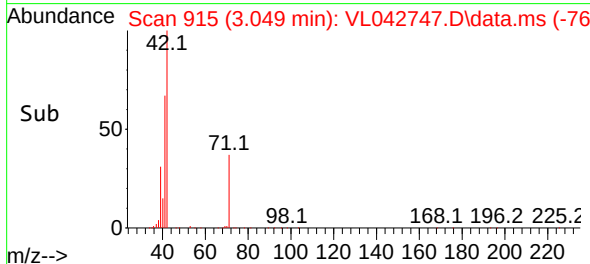
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 42 Resp: 16732
Ion Ratio Lower Upper
42 100
72 38.6 30.9 46.3
71 35.8 28.6 43.0

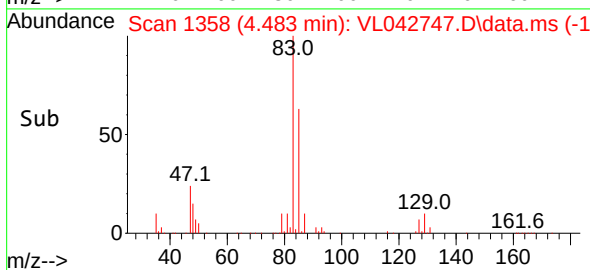
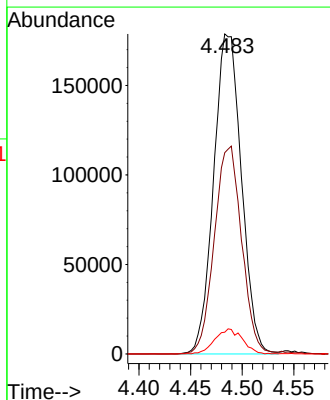
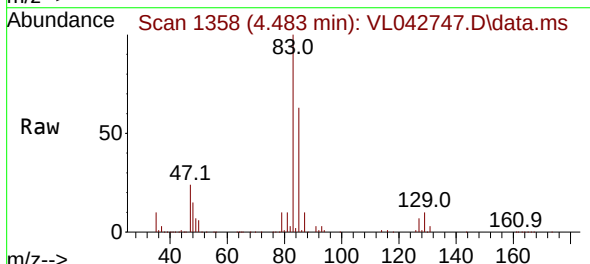
Manual Integrations
APPROVED

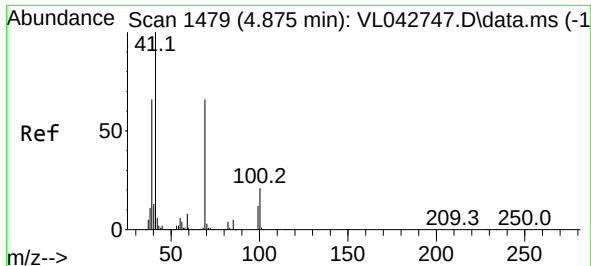
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#42
Bromodichloromethane
Concen: 9.713 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 83 Resp: 334531
Ion Ratio Lower Upper
83 100
85 62.8 50.2 75.4
127 6.8 5.4 8.2





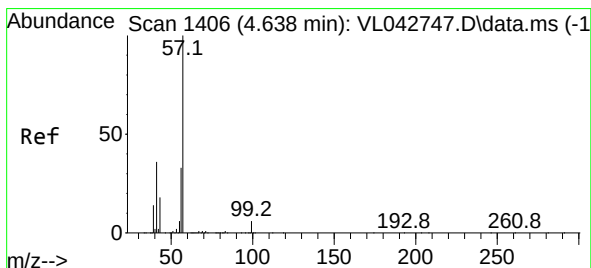
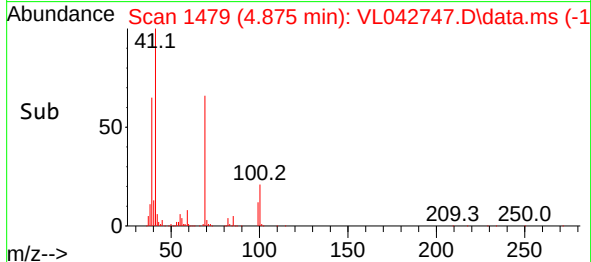
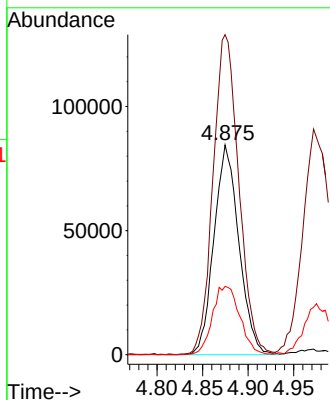
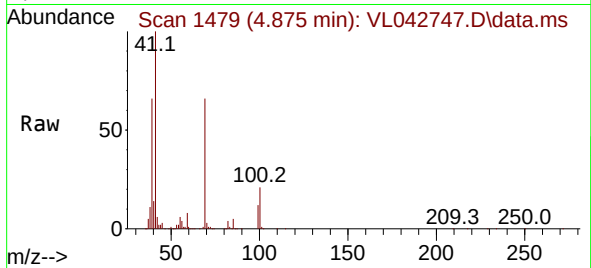
#43
Methyl Methacrylate
Concen: 10.331 ppbv
RT: 4.875 min Scan# 1479
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 69 Resp: 16105
Ion Ratio Lower Upper
69 100
41 157.1 125.7 188.5
100 35.7 28.6 42.8

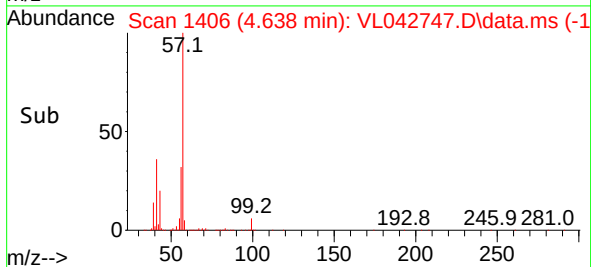
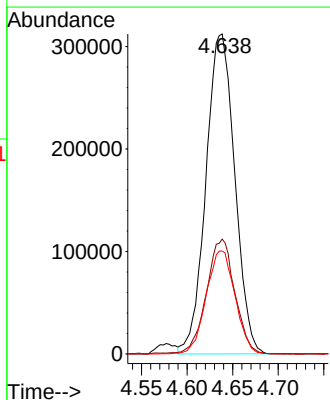
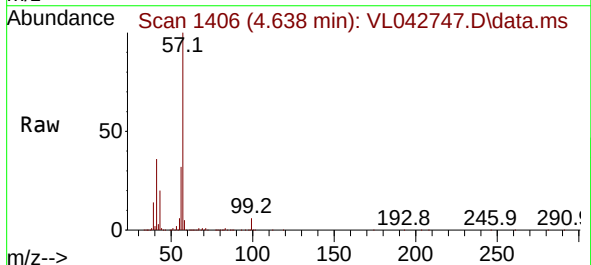
Manual Integrations
APPROVED

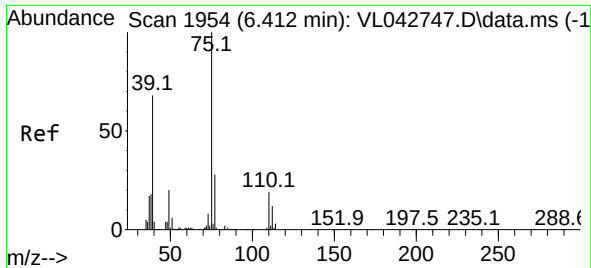
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#44
2,2,4-Trimethylpentane
Concen: 9.623 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 57 Resp: 687885
Ion Ratio Lower Upper
57 100
41 35.4 28.3 42.5
56 32.2 25.8 38.6





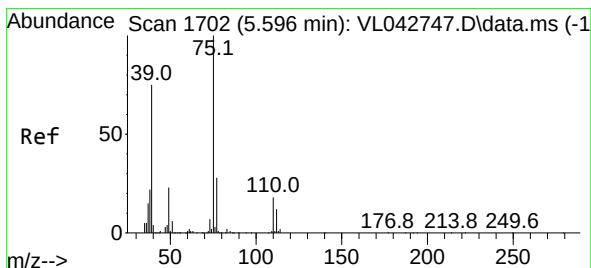
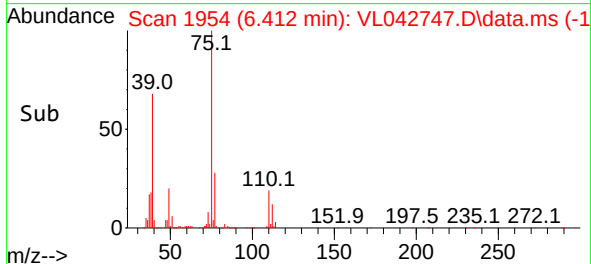
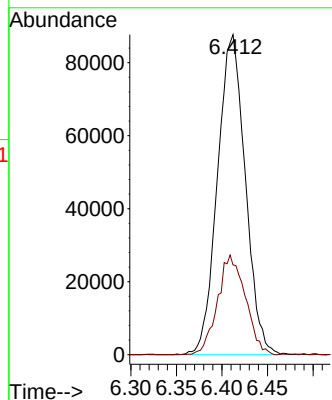
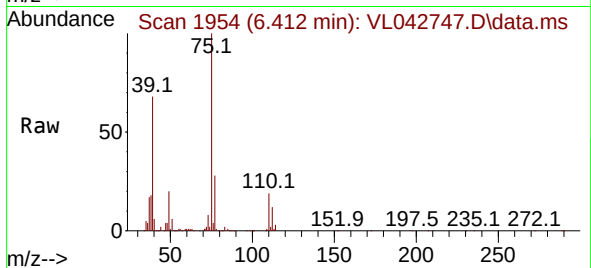
#45
t-1,3-Dichloropropene
Concen: 10.633 ppbv
RT: 6.412 min Scan# 1954
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 75 Resp: 18596
Ion Ratio Lower Upper
75 100
77 28.0 22.4 33.6

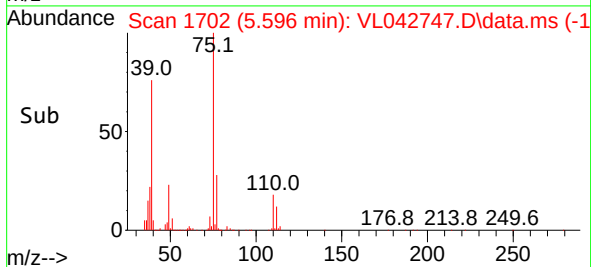
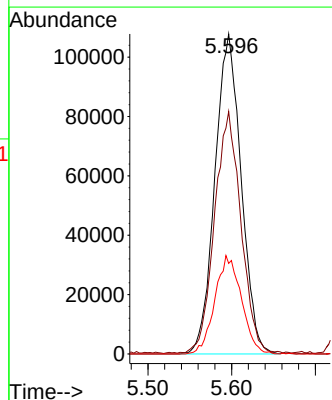
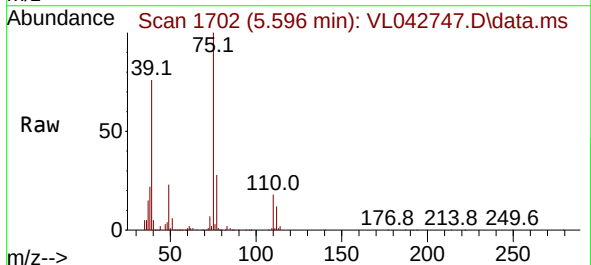
Manual Integrations
APPROVED

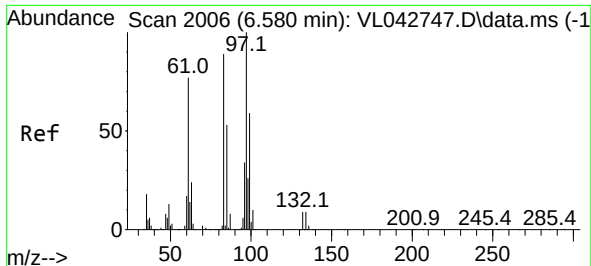
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#46
cis-1,3-Dichloropropene
Concen: 10.587 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 75 Resp: 234594
Ion Ratio Lower Upper
75 100
39 75.2 60.2 90.2
77 28.3 22.6 34.0





#47

1,1,2-Trichloroethane

Concen: 9.297 ppbv

RT: 6.580 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 16043

Ion Ratio Lower Upper

97 100

83 88.9 71.1 106.7

85 53.7 43.0 64.4

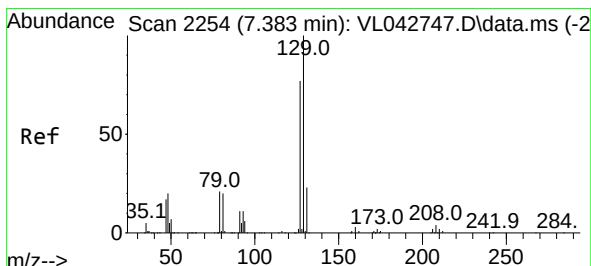
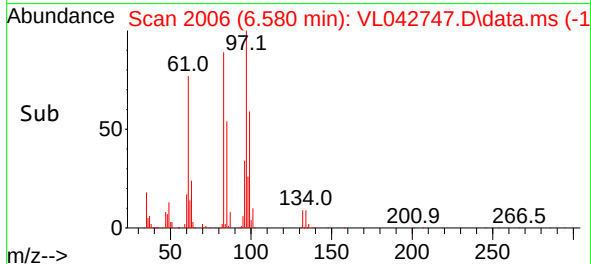
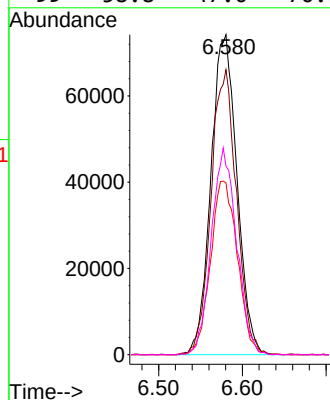
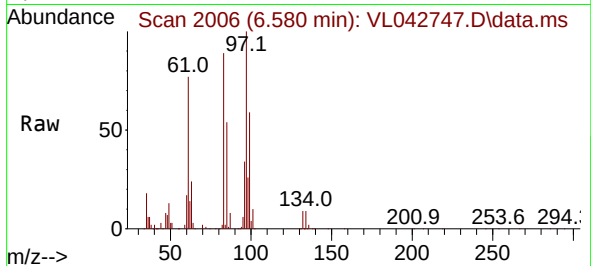
99 58.8 47.0 70.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#48

Dibromochloromethane

Concen: 10.141 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. 0.000 min

Lab File: VL042747.D

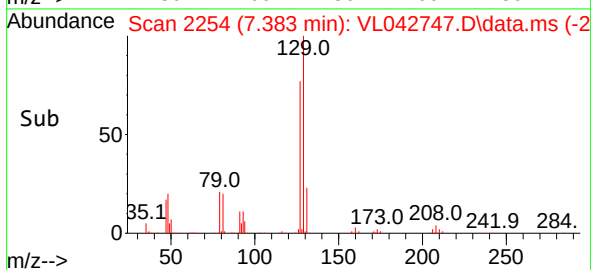
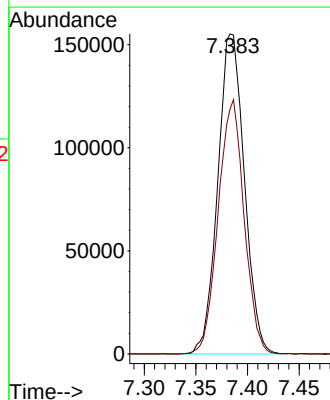
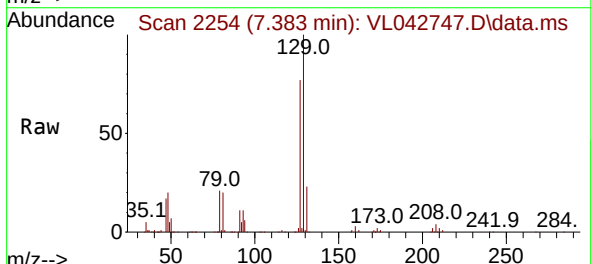
Acq: 23 Jul 2025 08:58

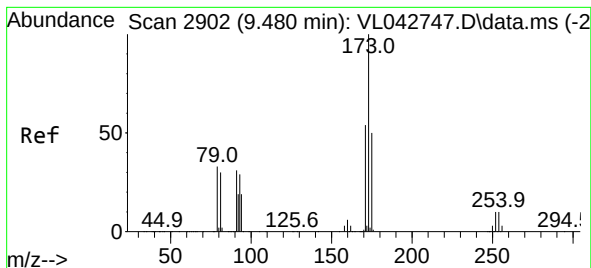
Tgt Ion:129 Resp: 277832

Ion Ratio Lower Upper

129 100

127 77.4 38.7 116.1





#49

Bromoform

Concen: 10.256 ppbv

RT: 9.480 min Scan# 2902

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

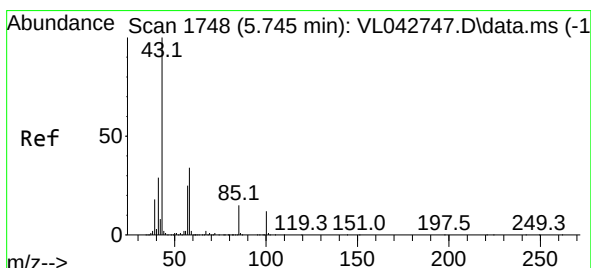
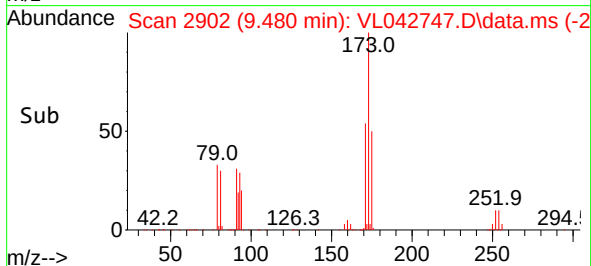
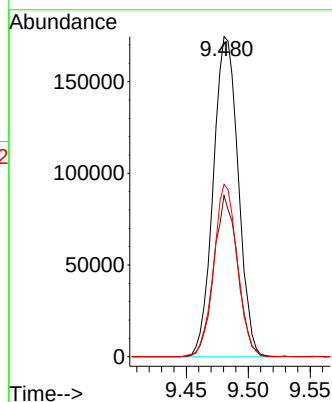
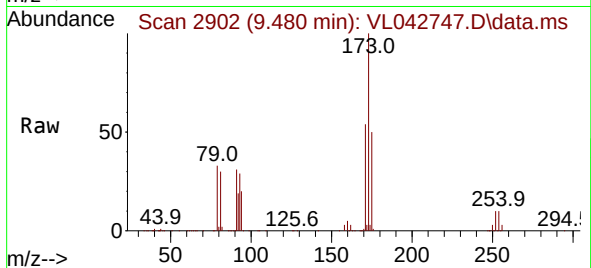
VSTDICCC010

Tgt Ion:173 Resp: 244997
 Ion Ratio Lower Upper
 173 100
 175 48.0 38.4 57.6
 171 51.1 40.9 61.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#50

4-Methyl-2-Pentanone

Concen: 9.914 ppbv

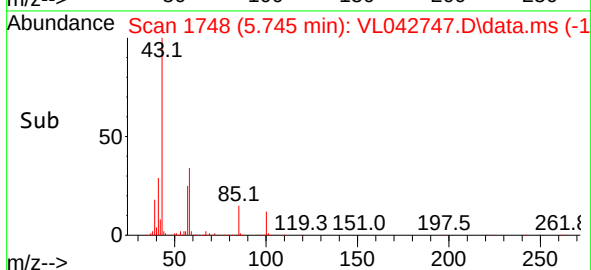
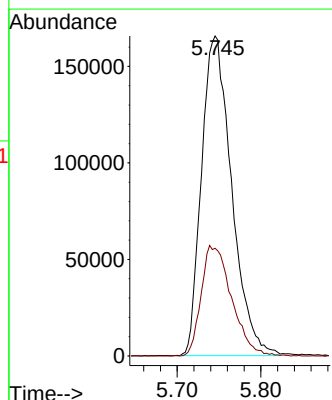
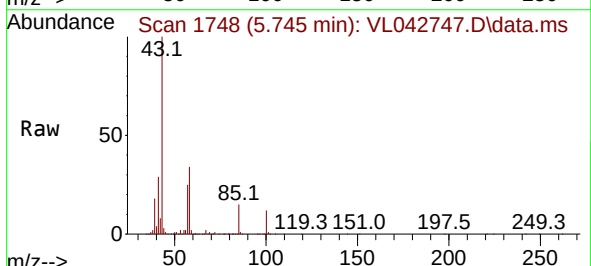
RT: 5.745 min Scan# 1748

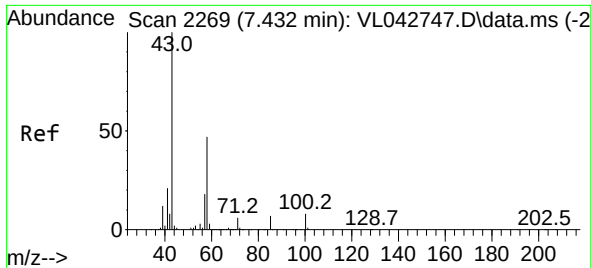
Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

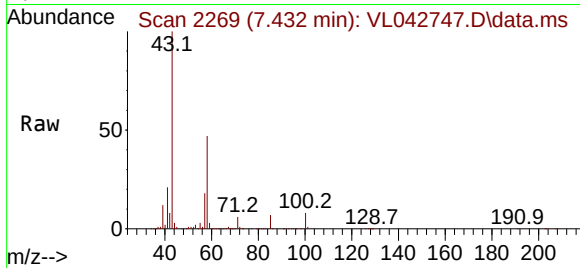
Tgt Ion: 43 Resp: 413966
 Ion Ratio Lower Upper
 43 100
 58 34.8 27.8 41.8





#51
2-Hexanone
Concen: 10.532 ppbv
RT: 7.432 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

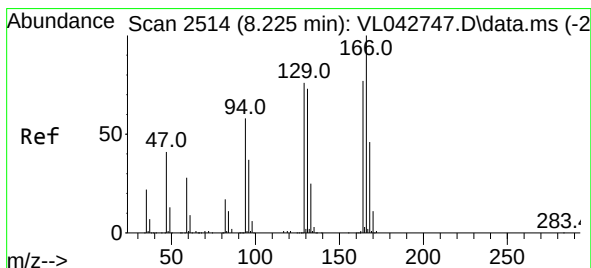
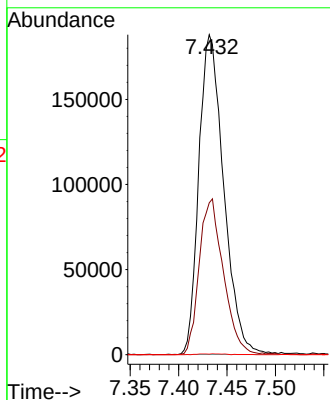
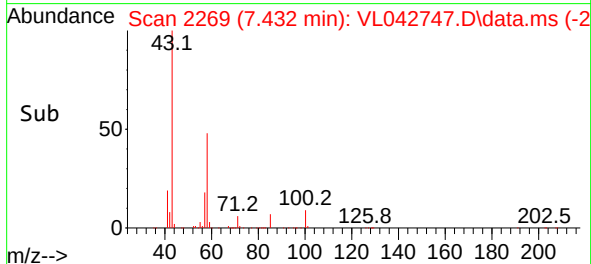
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



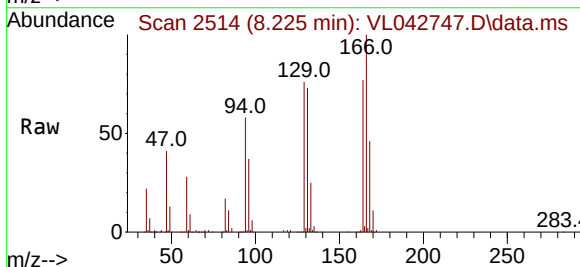
Tgt Ion: 43 Resp: 33604
Ion Ratio Lower Upper
43 100
58 47.5 38.0 57.0
98 0.3 0.2 0.4

Manual Integrations
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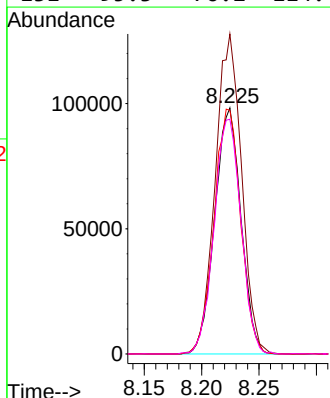
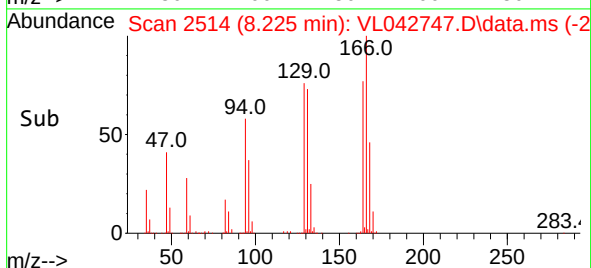
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

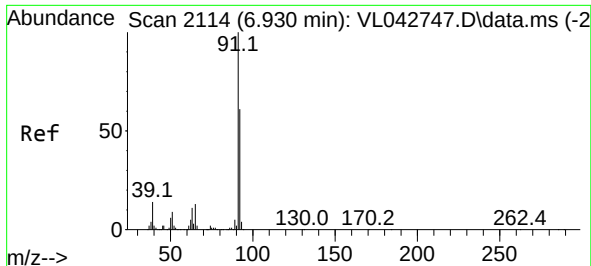


#52
Tetrachloroethene
Concen: 8.609 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion:164 Resp: 156930
Ion Ratio Lower Upper
164 100
166 130.0 104.0 156.0
129 99.0 79.2 118.8
131 95.3 76.2 114.4





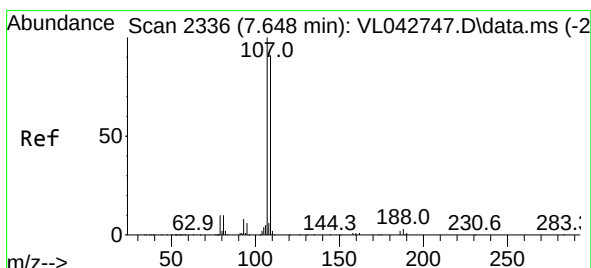
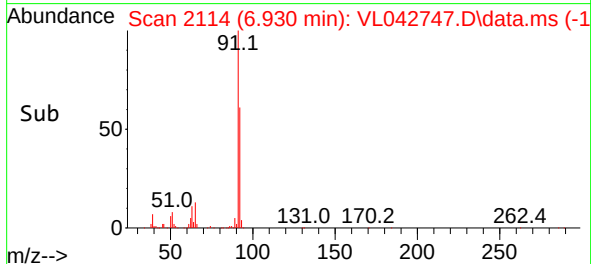
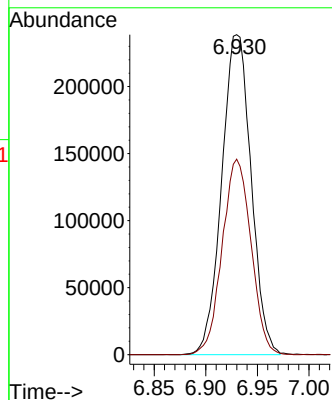
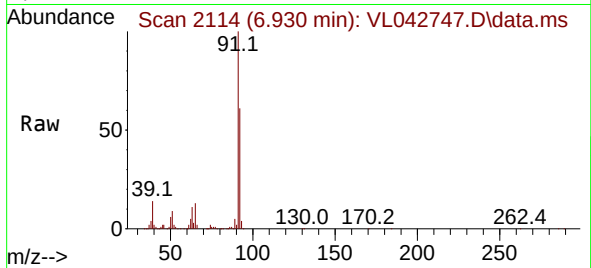
#53
Toluene
Concen: 10.042 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 47295
Ion Ratio Lower Upper
91 100
92 60.0 48.0 72.0

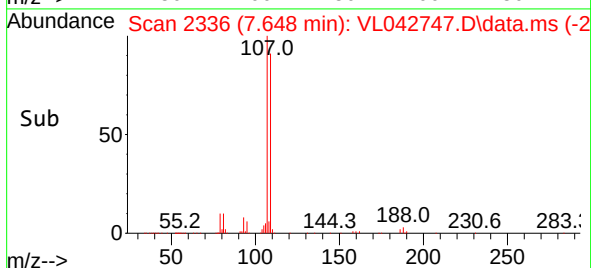
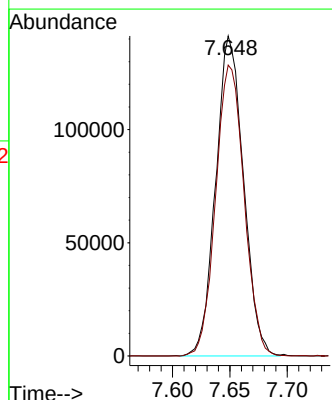
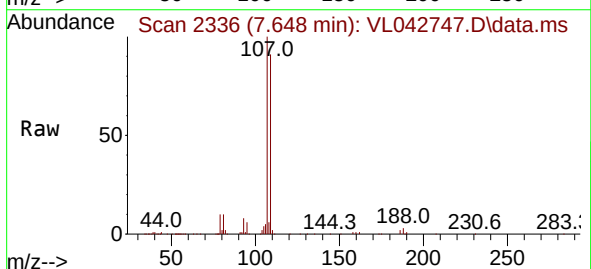
Manual Integrations
APPROVED

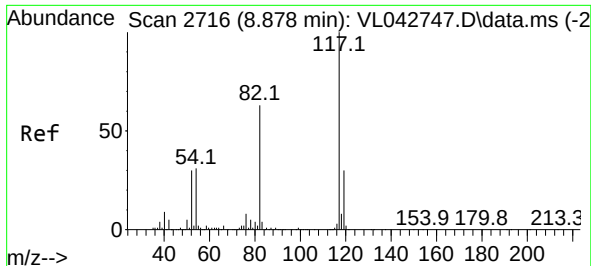
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#54
1,2-Dibromoethane
Concen: 9.745 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

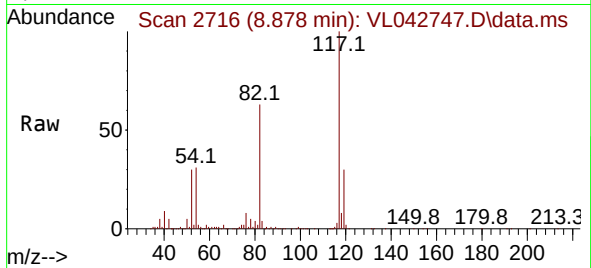
Tgt Ion:107 Resp: 238045
Ion Ratio Lower Upper
107 100
109 90.9 72.7 109.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

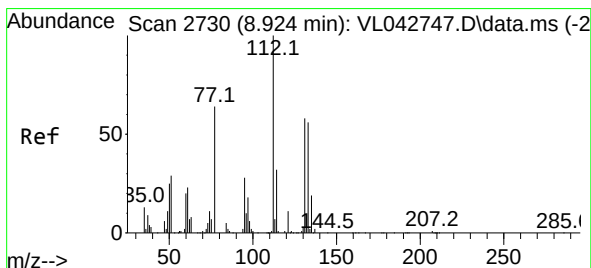
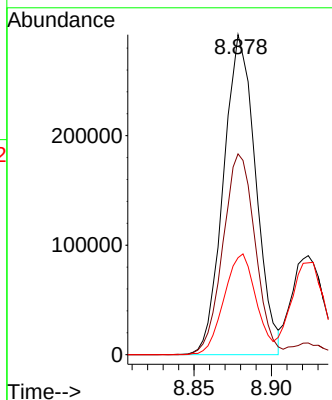
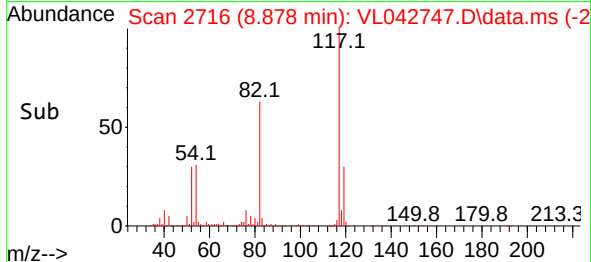
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:117 Resp: 422200
Ion Ratio Lower Upper
117 100
82 66.6 53.3 79.9
119 32.2 25.8 38.6

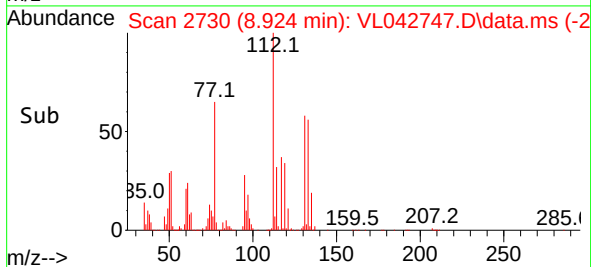
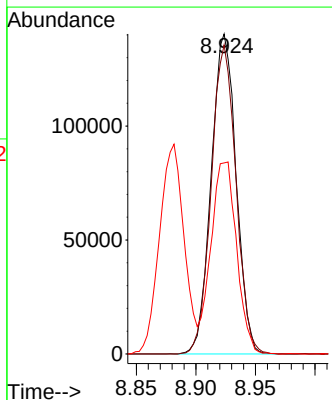
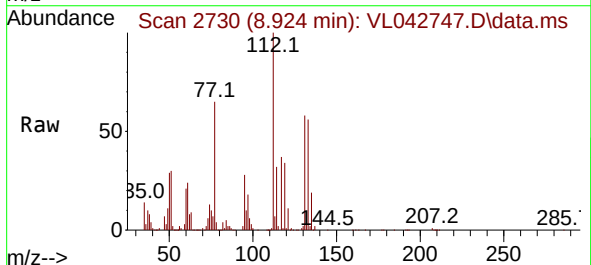
Manual Integrations
APPROVED

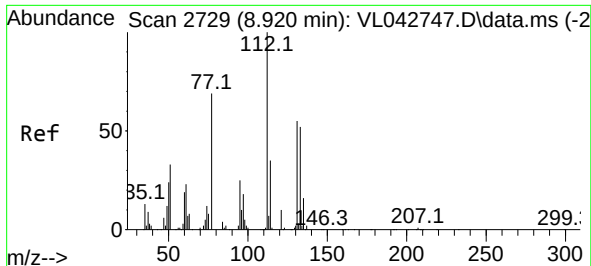
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.302 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

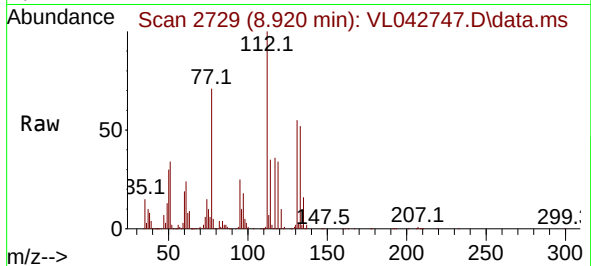
Tgt Ion:131 Resp: 204205
Ion Ratio Lower Upper
131 100
133 96.0 76.8 115.2
119 62.1 49.7 74.5





#57
Chlorobenzene
Concen: 9.082 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

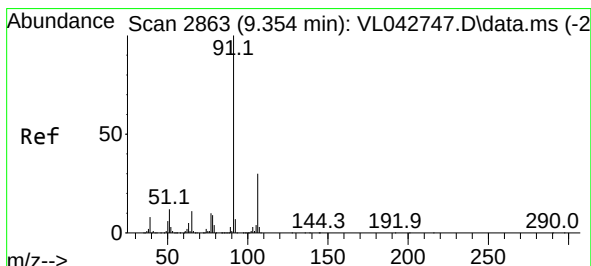
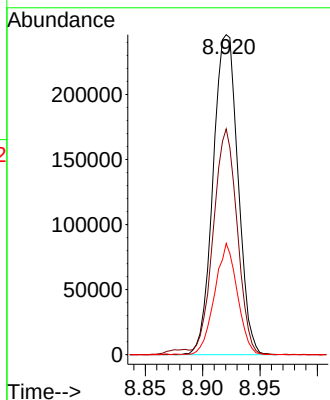
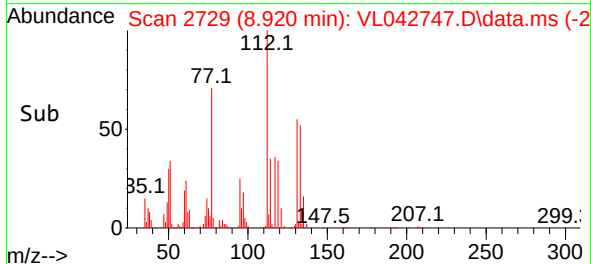
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:112 Resp: 37111
Ion Ratio Lower Upper
112 100
77 70.5 56.4 84.6
114 34.7 31.2 38.2

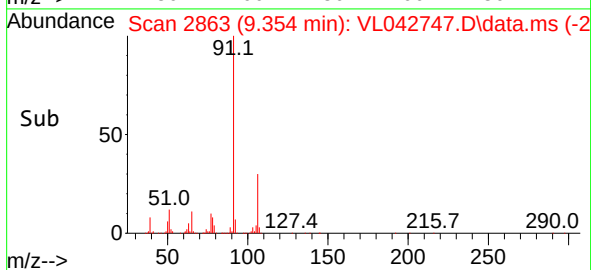
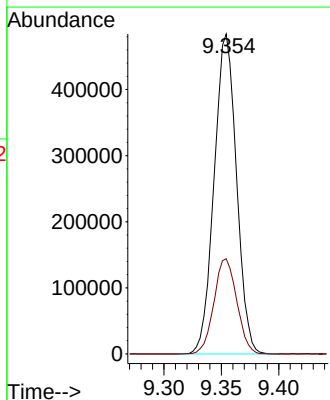
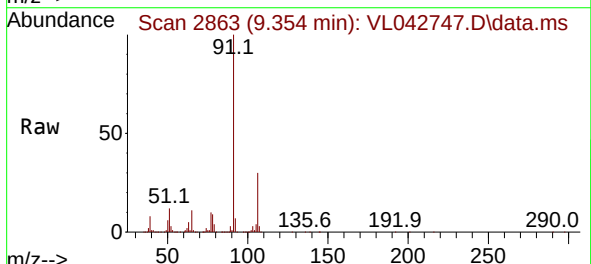
Manual Integrations
APPROVED

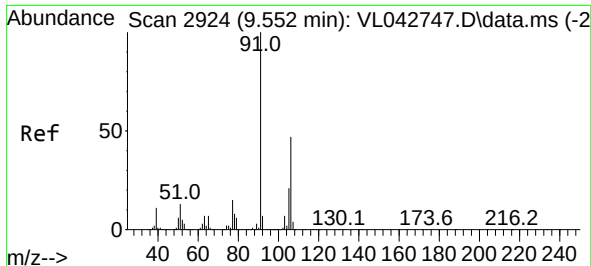
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#58
Ethyl Benzene
Concen: 9.824 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 91 Resp: 655020
Ion Ratio Lower Upper
91 100
106 29.7 23.8 35.6





#59

m/p-Xylene

Concen: 19.555 ppbv m

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 91 Resp: 104233

Ion Ratio Lower Upper

91 100

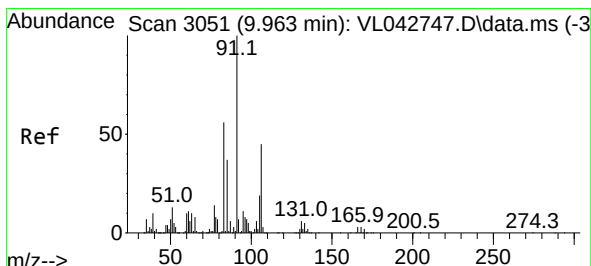
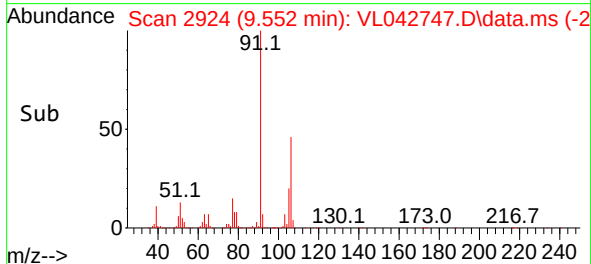
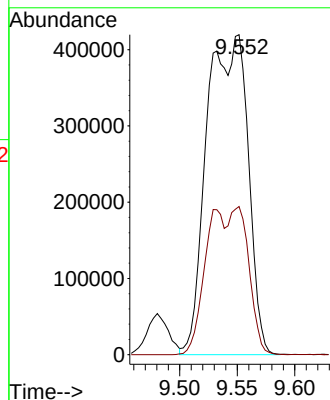
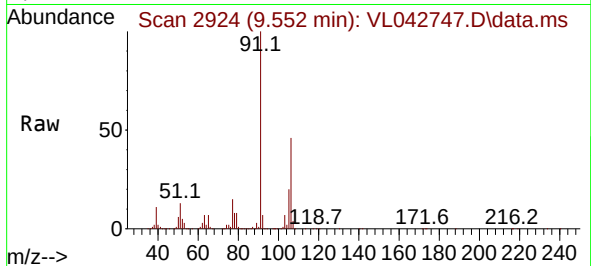
106 46.8 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#60

o-Xylene

Concen: 9.715 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042747.D

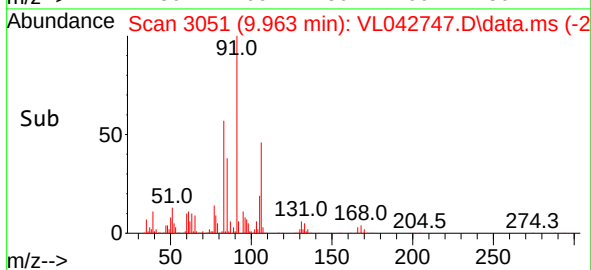
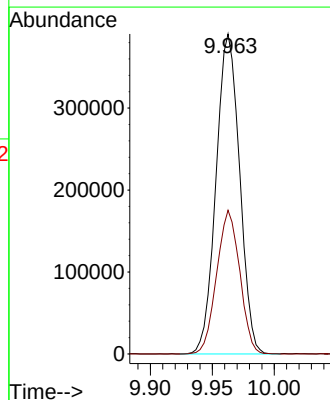
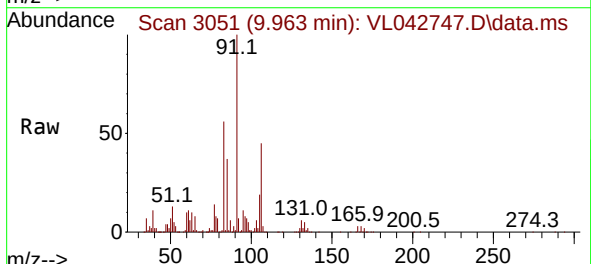
Acq: 23 Jul 2025 08:58

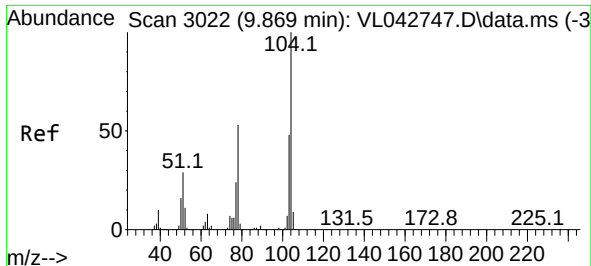
Tgt Ion: 91 Resp: 517292

Ion Ratio Lower Upper

91 100

106 44.0 22.0 66.0





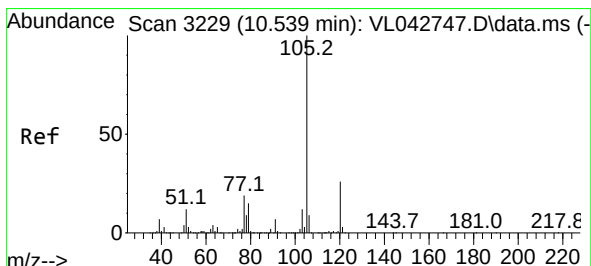
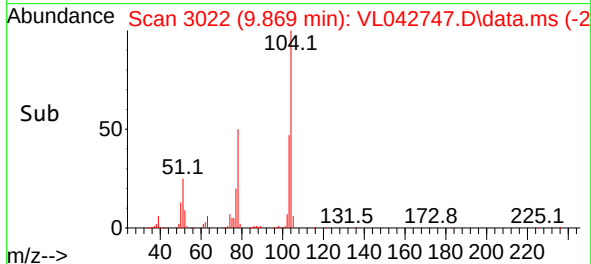
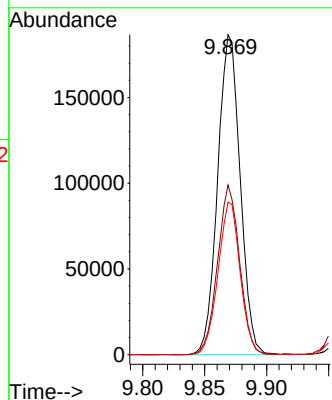
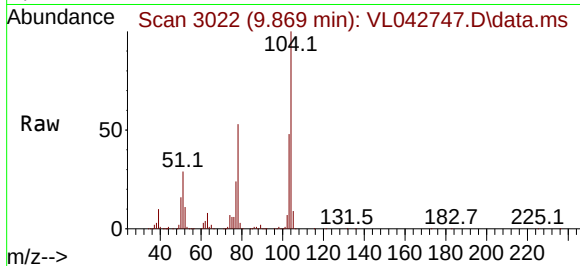
#61
Styrene
Concen: 10.568 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 236709
Ion Ratio Lower Upper
104 100
78 51.9 41.5 62.3
103 46.9 37.5 56.3

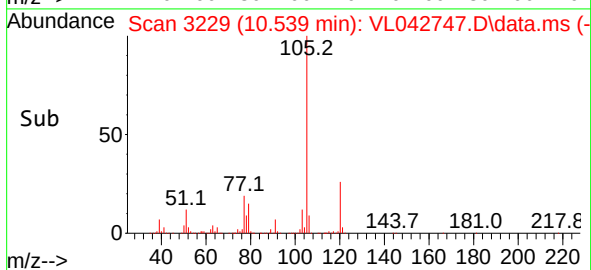
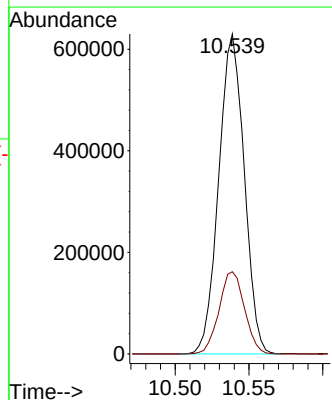
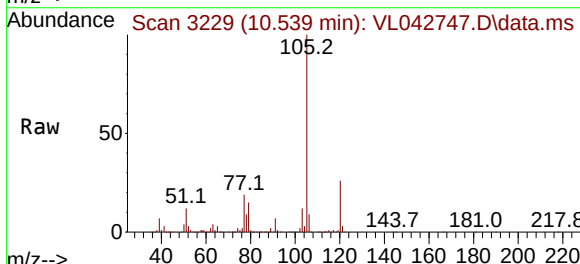
Manual Integrations
APPROVED

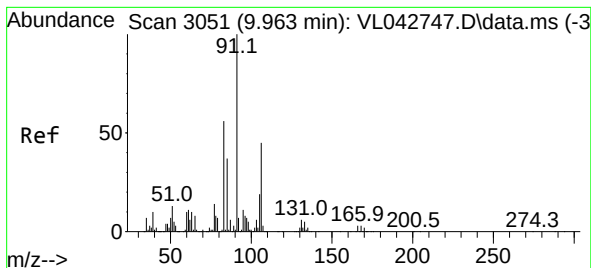
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#62
Isopropylbenzene
Concen: 9.641 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

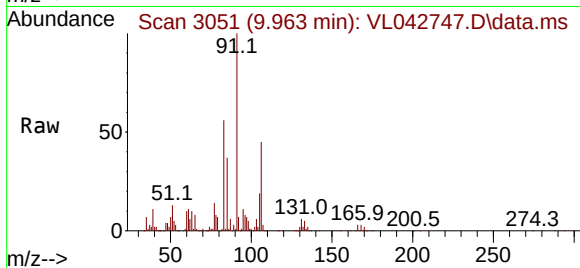
Tgt Ion:105 Resp: 757219
Ion Ratio Lower Upper
105 100
120 25.6 20.5 30.7





#63
1,1,2,2-Tetrachloroethane
Concen: 8.434 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

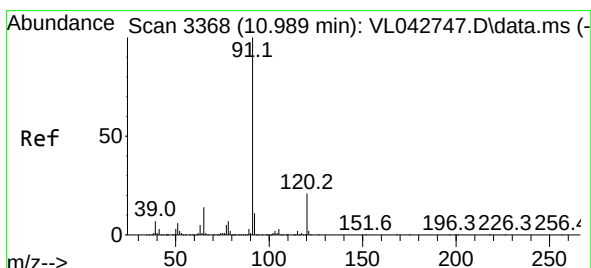
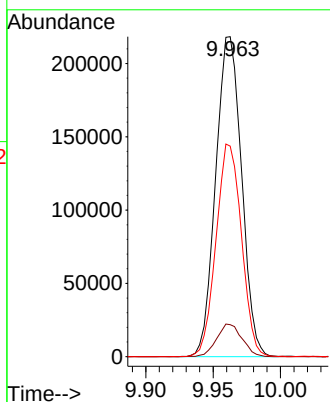
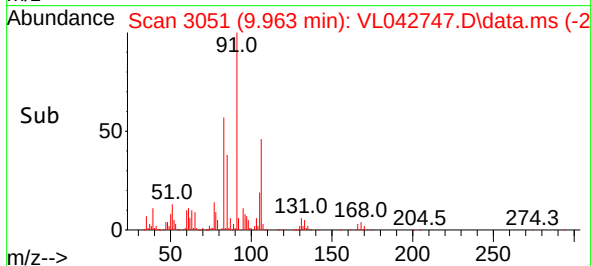
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



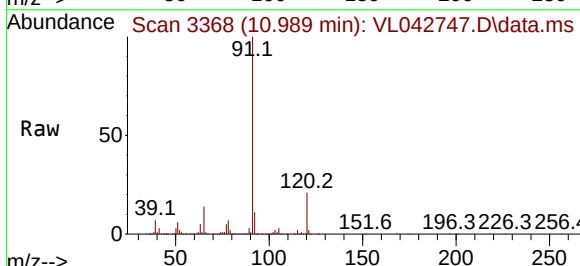
Tgt Ion: 83 Resp: 29256
Ion Ratio Lower Upper
83 100
131 10.0 5.0 15.0
85 65.1 32.6 97.7

Manual Integrations
APPROVED

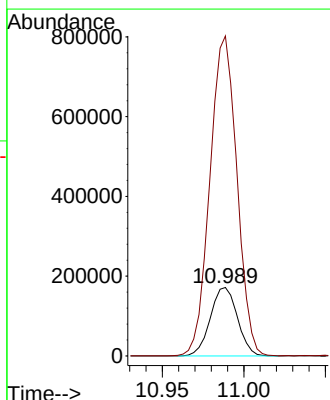
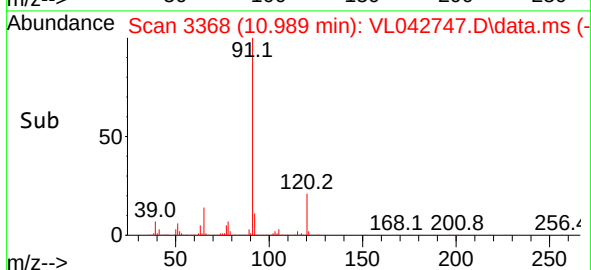
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

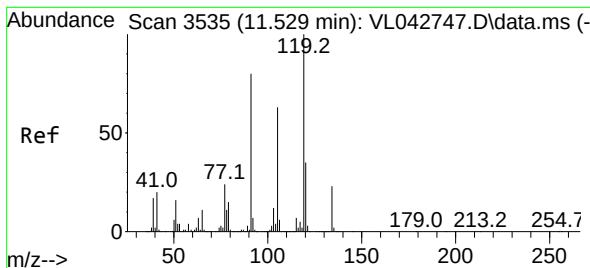


#64
n-propylbenzene
Concen: 9.675 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion:120 Resp: 198109
Ion Ratio Lower Upper
120 100
91 465.9 372.7 559.1





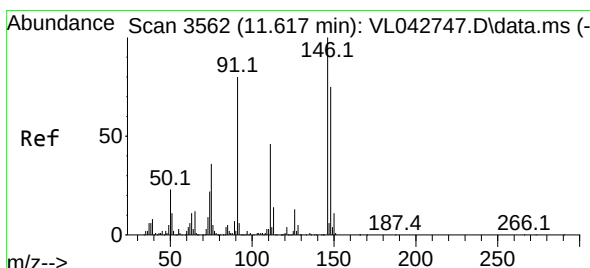
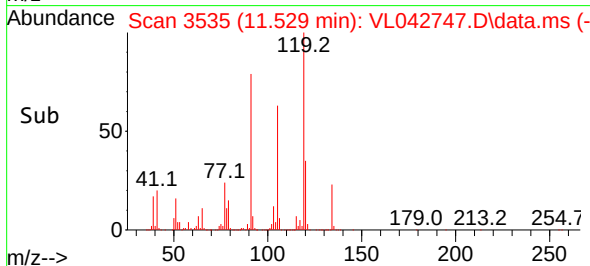
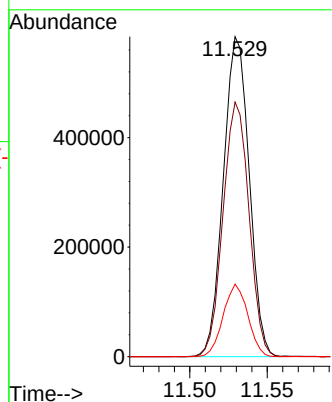
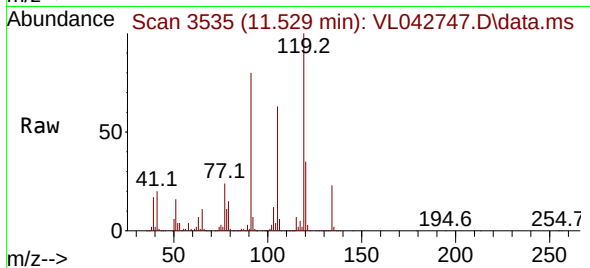
#65
tert-Butylbenzene
Concen: 9.721 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 119 Resp: 678174
Ion Ratio Lower Upper
119 100
91 80.0 64.0 96.0
134 21.6 17.3 25.9

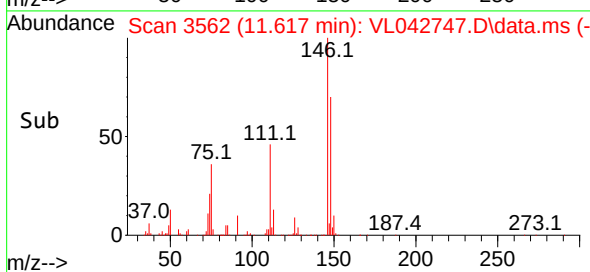
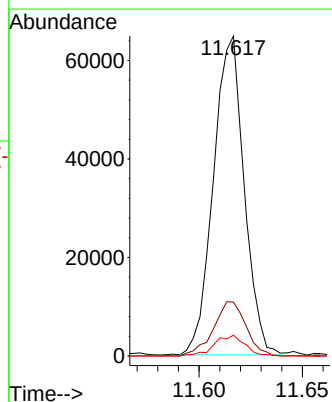
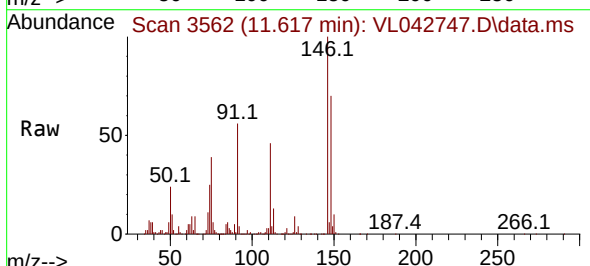
Manual Integrations
APPROVED

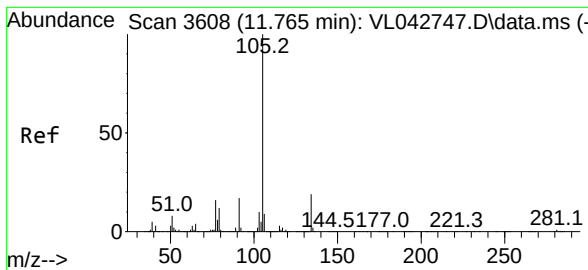
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#66
Benzyl Chloride
Concen: 11.691 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

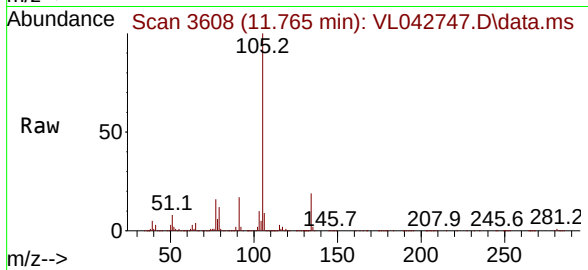
Tgt Ion: 91 Resp: 66954
Ion Ratio Lower Upper
91 100
126 18.0 14.4 21.6
128 6.5 5.2 7.8





#67
 sec-Butylbenzene
 Concen: 9.468 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

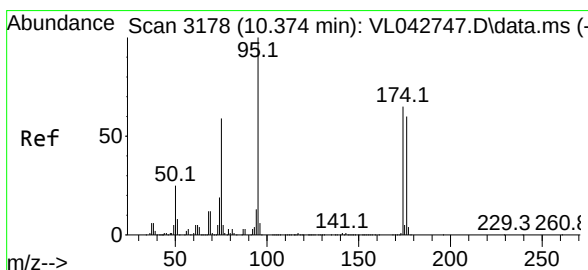
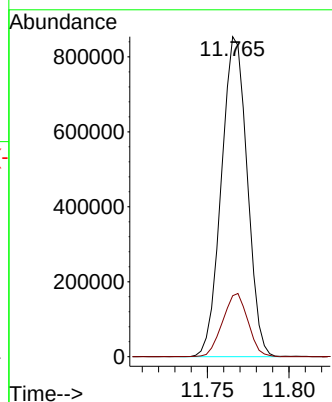
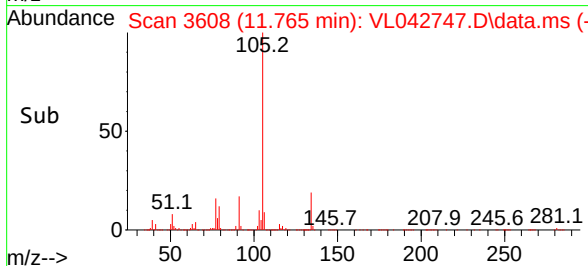
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



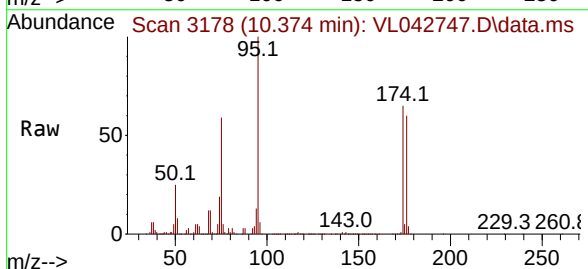
Tgt Ion:105 Resp: 939390
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3

Manual Integrations
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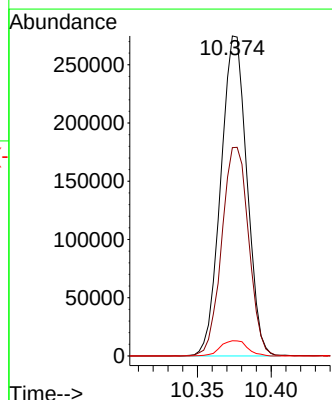
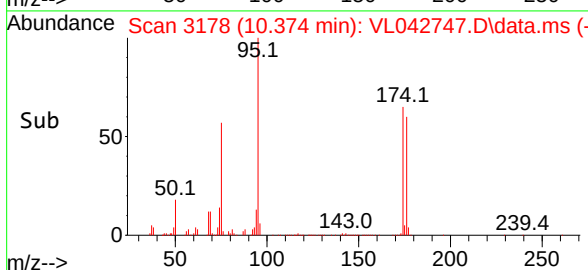
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

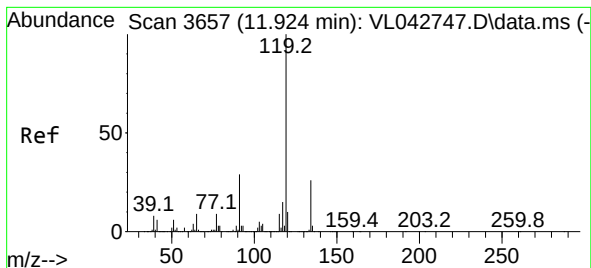


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.117 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58



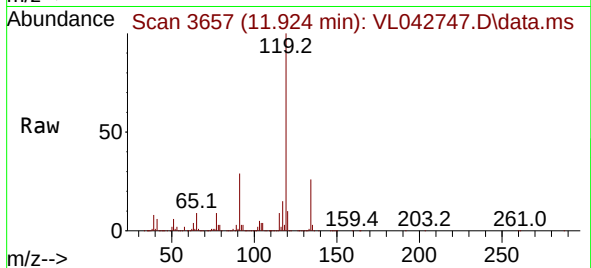
Tgt Ion: 95 Resp: 338271
 Ion Ratio Lower Upper
 95 100
 174 67.2 53.8 80.6
 175 5.0 4.0 6.0





#69
 p-Isopropyltoluene
 Concen: 10.061 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

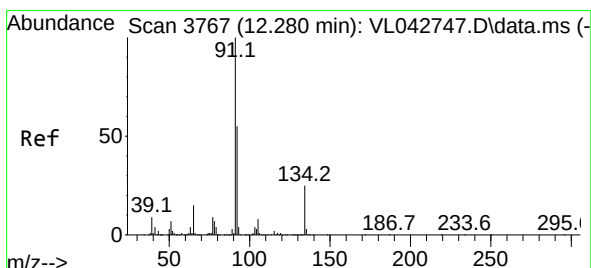
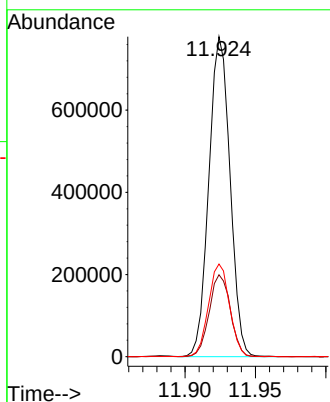
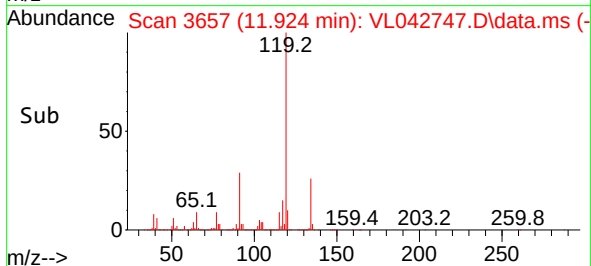
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



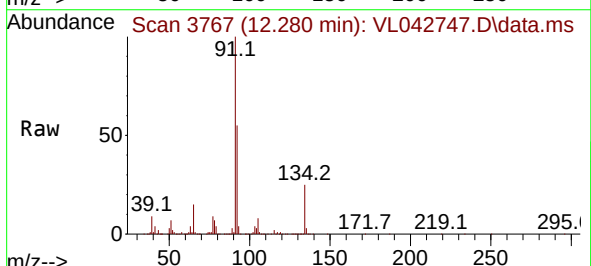
Tgt Ion:119 Resp: 814010
 Ion Ratio Lower Upper
 119 100
 134 25.8 20.6 31.0
 91 29.0 23.2 34.8

Manual Integrations
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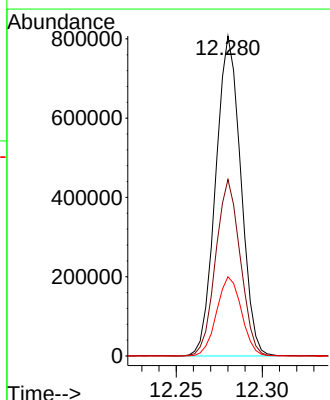
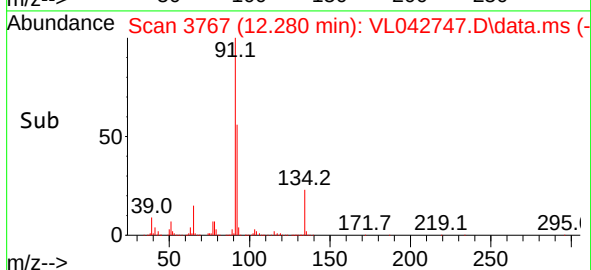
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

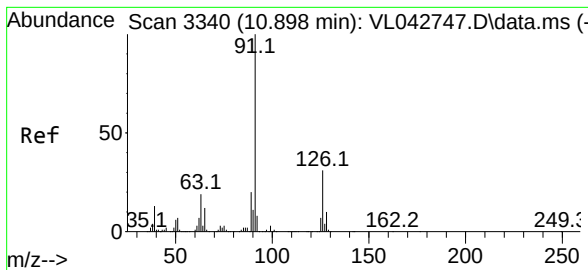


#70
 n-Butylbenzene
 Concen: 10.473 ppbv
 RT: 12.280 min Scan# 3767
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58



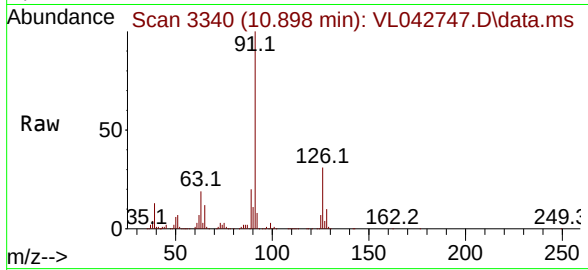
Tgt Ion: 91 Resp: 818457
 Ion Ratio Lower Upper
 91 100
 92 54.3 43.4 65.2
 134 24.5 19.6 29.4





#71
2-Chlorotoluene
Concen: 9.708 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

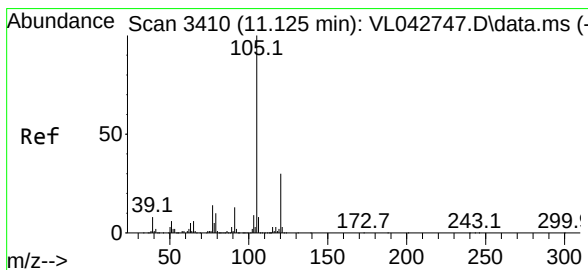
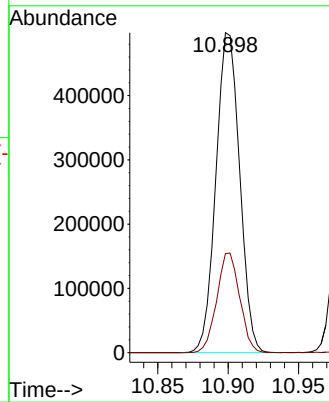
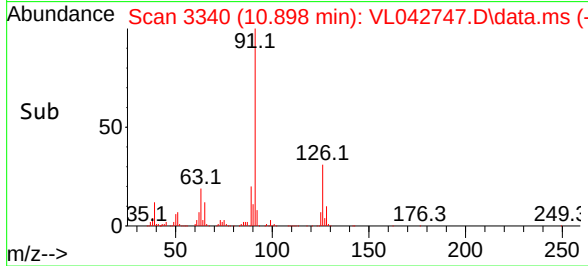
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



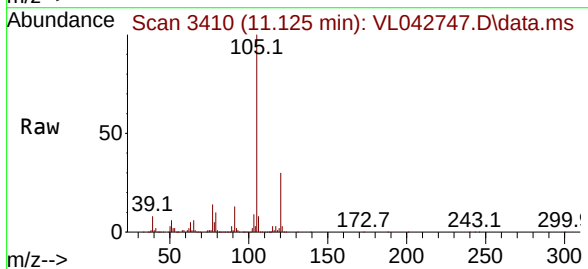
Tgt Ion: 91 Resp: 584629
Ion Ratio Lower Upper
91 100
126 30.1 12.0 48.2

Manual Integrations
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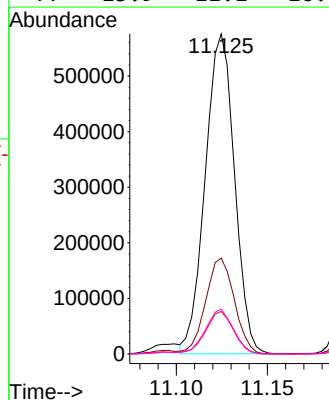
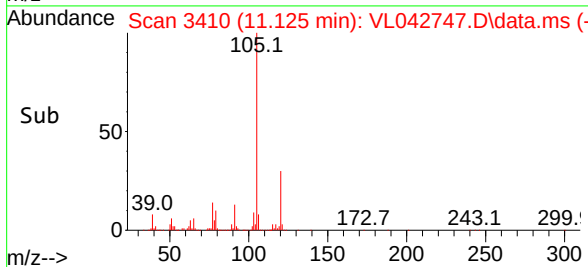
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

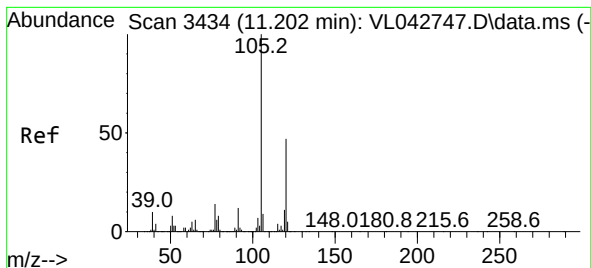


#72
4-Ethyltoluene
Concen: 10.120 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



Tgt Ion:105 Resp: 643519
Ion Ratio Lower Upper
105 100
120 30.5 24.4 36.6
91 13.2 10.6 15.8
77 13.9 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.285 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:105 Resp: 53845

Ion Ratio Lower Upper

105 100

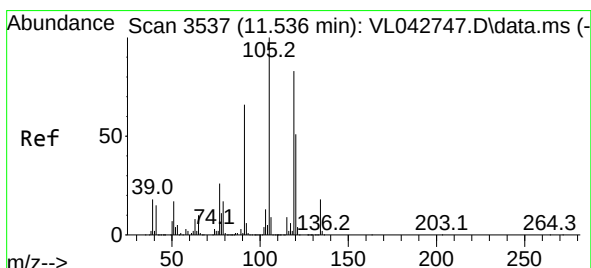
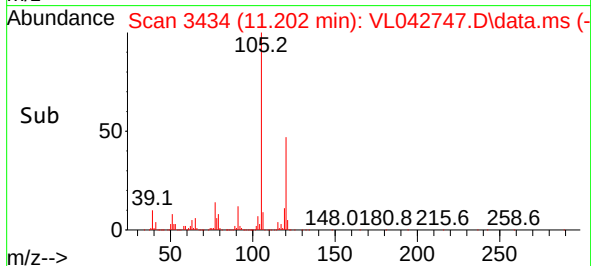
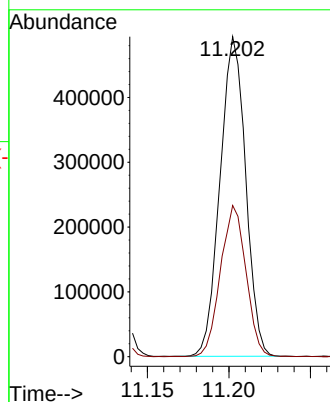
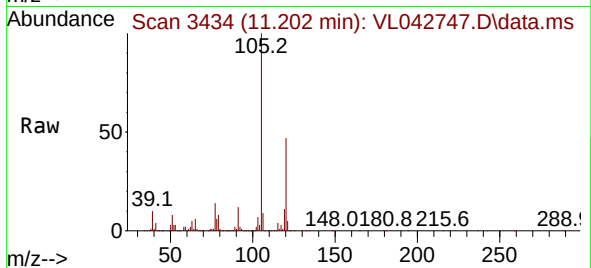
120 47.3 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#74

1,2,4-Trimethylbenzene

Concen: 10.232 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Tgt Ion:105 Resp: 584447

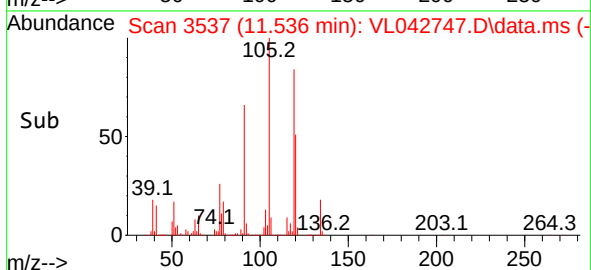
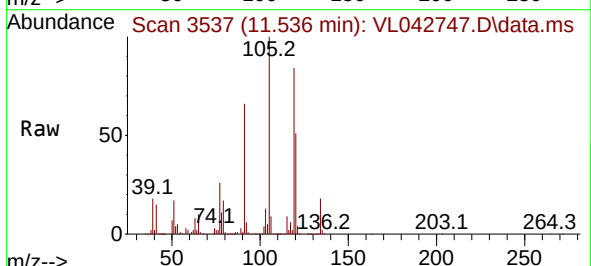
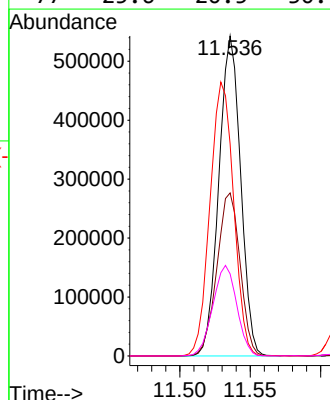
Ion Ratio Lower Upper

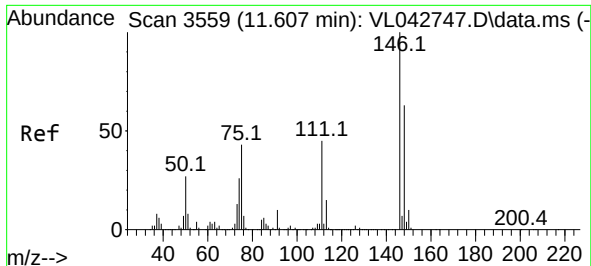
105 100

120 51.0 40.8 61.2

91 66.2 53.0 79.4

77 25.6 20.5 30.7





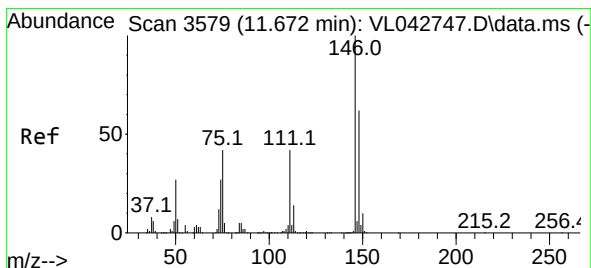
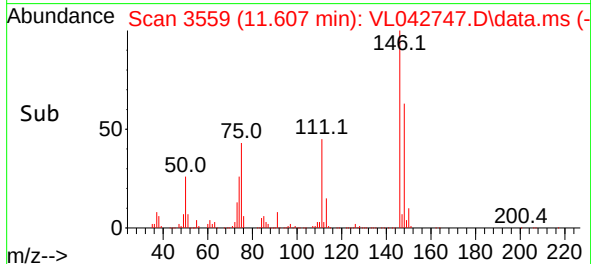
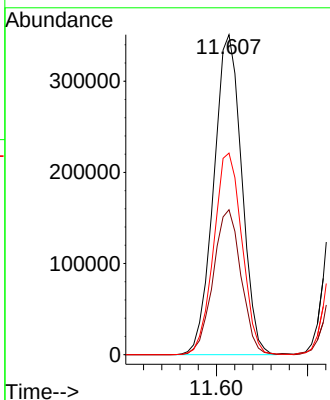
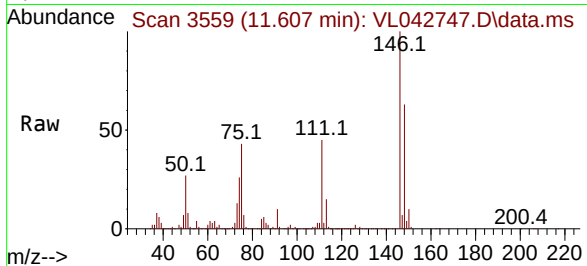
#75
1,3-Dichlorobenzene
Concen: 9.355 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 37458
Ion Ratio Lower Upper
146 100
111 45.3 22.7 68.0
148 63.7 31.9 95.5

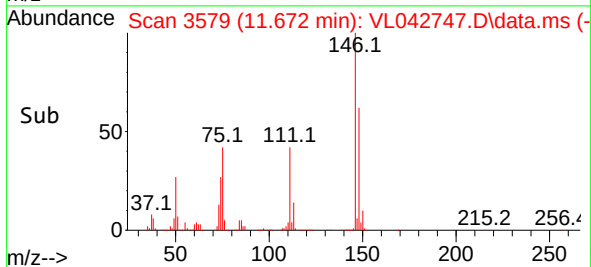
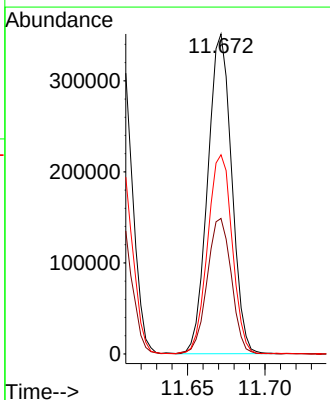
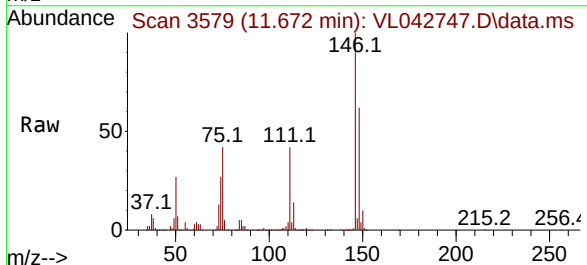
Manual Integrations
APPROVED

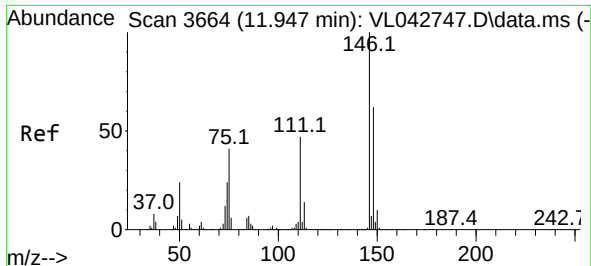
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#76
1,4-Dichlorobenzene
Concen: 9.649 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

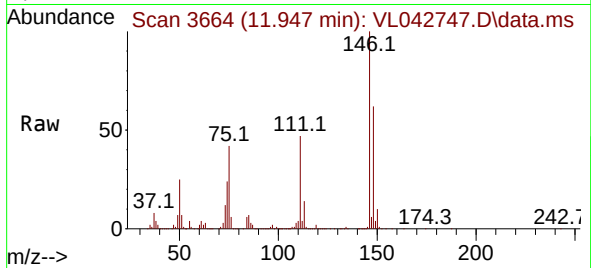
Tgt Ion:146 Resp: 378093
Ion Ratio Lower Upper
146 100
111 42.8 21.4 64.2
148 64.2 32.1 96.3





#77
1,2-Dichlorobenzene
Concen: 9.102 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

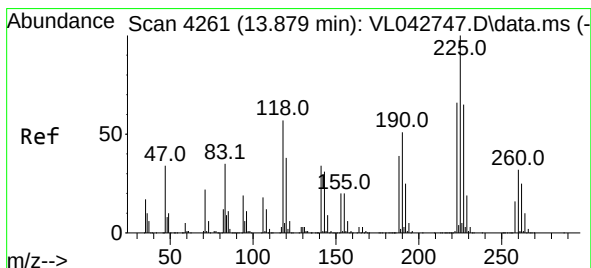
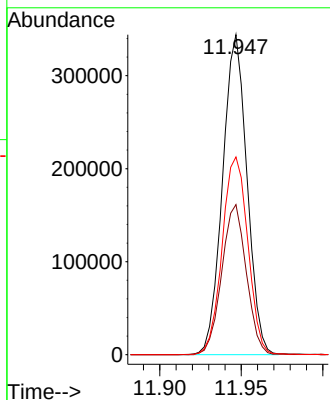
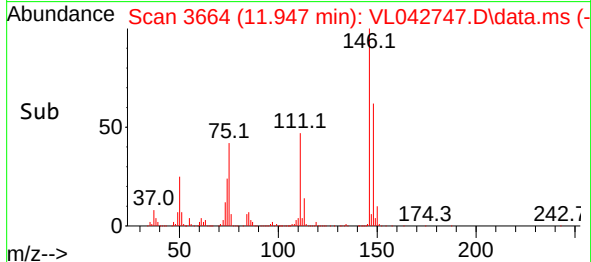
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010



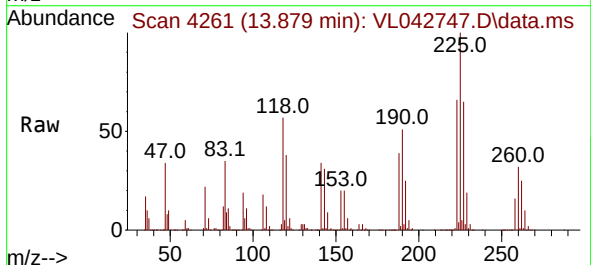
Tgt Ion:146 Resp: 358200
Ion Ratio Lower Upper
146 100
111 47.4 23.7 71.1
148 65.1 32.6 97.7

Manual Integrations
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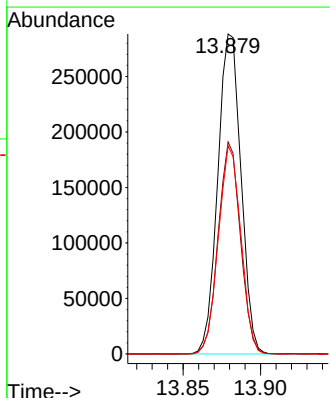
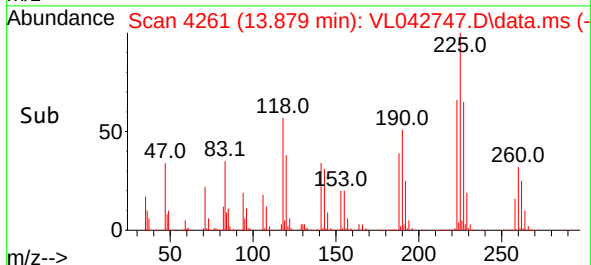
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

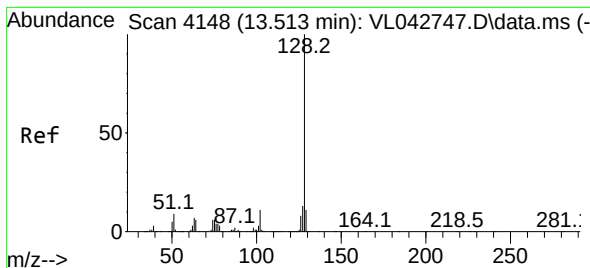


#78
Hexachloro-1,3-Butadiene
Concen: 8.444 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



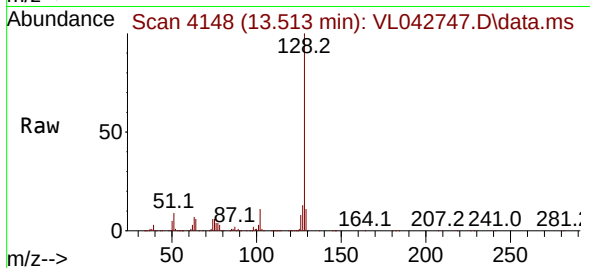
Tgt Ion:225 Resp: 300801
Ion Ratio Lower Upper
225 100
223 63.4 50.7 76.1
227 63.1 50.5 75.7





#79
Naphthalene
Concen: 9.665 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

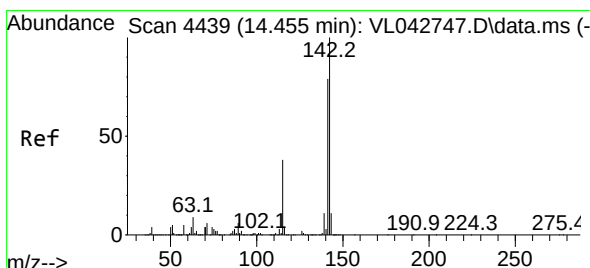
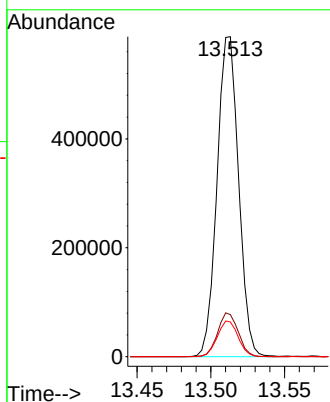
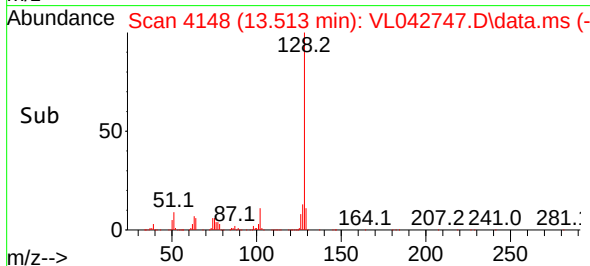
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



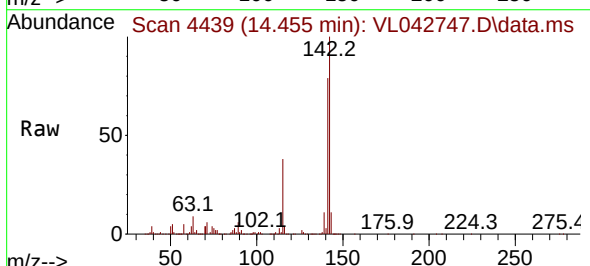
Tgt Ion:128 Resp: 598108
Ion Ratio Lower Upper
128 100
127 13.1 10.5 15.7
129 10.8 8.6 13.0

Manual Integrations
APPROVED

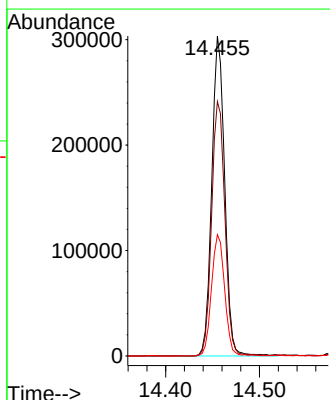
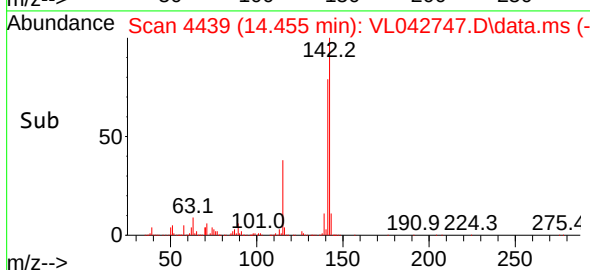
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

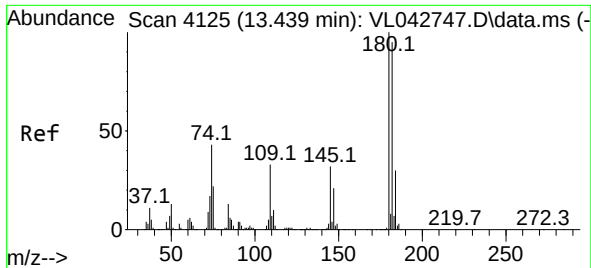


#80
Naphthalene,2-methyl-
Concen: 9.404 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58



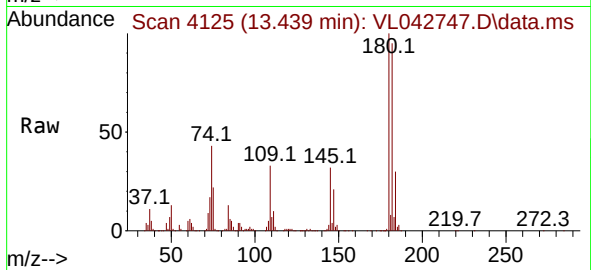
Tgt Ion:142 Resp: 289412
Ion Ratio Lower Upper
142 100
141 82.1 65.8 98.8
115 38.9 31.2 46.8





#81
 1,2,4-Trichlorobenzene
 Concen: 9.710 ppbv
 RT: 13.439 min Scan# 4125
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

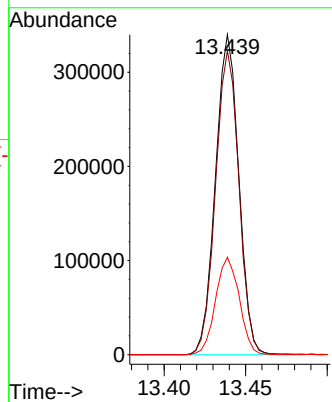
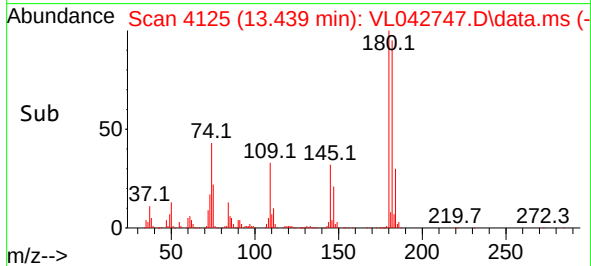
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:180 Resp: 337770
 Ion Ratio Lower Upper
 180 100
 182 95.2 76.2 114.2
 184 31.0 24.8 37.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042748.D
 Acq On : 23 Jul 2025 09:34
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Jul 24 04:56:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

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

Internal Standards						
1) Bromochloromethane	2.780	49	158575	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	457804	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	410740	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.370	95	330476	10.160	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.600%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.495	85	43675	2.083	ppbv	98
3) Chlorodifluoromethane	1.473	51	56214	2.058	ppbv	99
4) Chloromethane	1.531	50	16834	1.985	ppbv	100
5) Vinyl Chloride	1.576	62	15384	1.836	ppbv	92
6) Bromomethane	1.664	94	5754	1.776	ppbv	83
7) Chloroethane	1.703	64	6001	1.853	ppbv	93
8) Dichlorotetrafluoroethane	1.554	85	35629	2.066	ppbv	100
9) Propene	1.483	41	21592	2.175	ppbv	97
10) Heptane	4.965	43	56442m	2.114	ppbv	
11) Trichlorofluoromethane	1.874	101	44770	2.072	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.136	101	33910	2.065	ppbv	99
13) Ethanol	1.719	45	2321	2.155	ppbv	78
14) Bromoethene	1.780	108	12078	2.077	ppbv #	96
15) Acetone	1.832	43	48226	2.202	ppbv	100
16) 1,3-Butadiene	1.606	39	18504	1.981	ppbv	96
17) tert-Butyl alcohol	2.036	59	40135	2.032	ppbv #	93
18) 1,1-Dichloroethene	2.030	96	14381	1.938	ppbv	93
19) Isopropyl Alcohol	1.884	45	23028	1.979	ppbv #	75
20) Methylene Chloride	2.059	84	13296	1.927	ppbv	97
21) Allyl Chloride	2.091	41	27789	2.059	ppbv	97
22) trans-1,2-Dichloroethene	2.337	96	16591m	2.081	ppbv	
23) Vinyl Acetate	2.457	43	53544	2.017	ppbv #	98
24) 1,1-Dichloroethane	2.405	63	33969	2.073	ppbv	99
25) Ethyl Acetate	2.832	43	101853	2.101	ppbv	99
26) Hexane	2.822	57	45446	2.137	ppbv	99
27) Carbon Disulfide	2.146	76	36945	2.030	ppbv #	36
28) Methyl tert-Butyl Ether	2.437	73	20603	2.051	ppbv	96
29) Chloroform	2.842	83	67755	2.062	ppbv	97
30) Cyclohexane	3.845	84	38095m	2.113	ppbv	
31) cis-1,2-Dichloroethene	2.716	61	44860	2.053	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	67608	1.976	ppbv	98
34) 2-Butanone	2.551	43	69674	2.149	ppbv	99
35) Carbon Tetrachloride	3.755	117	67338	1.979	ppbv	97
36) Benzene	3.648	78	91141	2.101	ppbv	94
37) 1,2-Dichloroethane	3.211	62	53482	2.046	ppbv	98
38) Trichloroethene	4.538	130	40713	1.946	ppbv	90
39) 1,2-Dichloropropane	4.305	63	33225	2.075	ppbv	94
40) 1,4-Dioxane	4.583	88	15890m	2.104	ppbv	
41) Tetrahydrofuran	3.052	42	33618	2.064	ppbv	94
42) Bromodichloromethane	4.480	83	69093	2.028	ppbv	94
43) Methyl Methacrylate	4.871	69	30336	1.967	ppbv	95
44) 2,2,4-Trimethylpentane	4.632	57	149588	2.115	ppbv	99
45) t-1,3-Dichloropropene	6.405	75	34331m	1.984	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042748.D
 Acq On : 23 Jul 2025 09:34
 Operator : SY/MD
 Sample : VSTDIC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:56:50 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

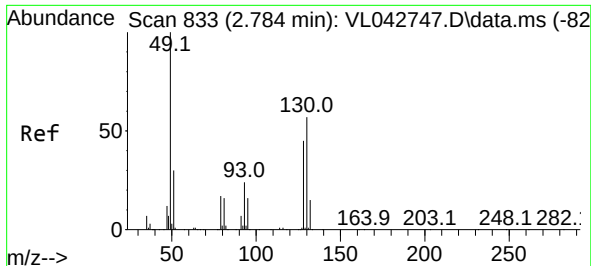
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

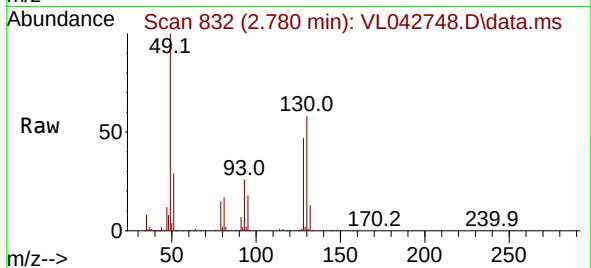
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	43845m	2.000	ppbv	
47) 1,1,2-Trichloroethane	6.567	97	35222m	2.063	ppbv	
48) Dibromochloromethane	7.380	129	54906	2.026	ppbv	96
49) Bromoform	9.477	173	47340	2.003	ppbv	96
50) 4-Methyl-2-Pentanone	5.748	43	87566m	2.120	ppbv	
51) 2-Hexanone	7.431	43	68093	2.157	ppbv #	99
52) Tetrachloroethene	8.215	164	34568	1.917	ppbv	94
53) Toluene	6.923	91	98346	2.111	ppbv	100
54) 1,2-Dibromoethane	7.645	107	49346	2.042	ppbv	91
56) 1,1,1,2-Tetrachloroethane	8.920	131	44409	2.079	ppbv	92
57) Chlorobenzene	8.914	112	83503	2.101	ppbv #	92
58) Ethyl Benzene	9.348	91	143251	2.208	ppbv	97
59) m/p-Xylene	9.545	91	222465m	4.290	ppbv	
60) o-Xylene	9.956	91	113462	2.190	ppbv	99
61) Styrene	9.865	104	45351	2.081	ppbv	100
62) Isopropylbenzene	10.535	105	167108	2.187	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	65928	1.954	ppbv	100
64) n-propylbenzene	10.982	120	43789	2.198	ppbv	98
65) tert-Butylbenzene	11.526	119	151081	2.226	ppbv	98
66) Benzyl Chloride	11.610	91	10485	1.882	ppbv	98
67) sec-Butylbenzene	11.762	105	212925	2.206	ppbv	99
69) p-Isopropyltoluene	11.921	119	175553	2.230	ppbv	99
70) n-Butylbenzene	12.277	91	171675	2.258	ppbv	99
71) 2-Chlorotoluene	10.898	91	125039	2.134	ppbv	98
72) 4-Ethyltoluene	11.121	105	134097	2.168	ppbv	98
73) 1,3,5-Trimethylbenzene	11.199	105	108055	2.122	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	122295	2.201	ppbv	95
75) 1,3-Dichlorobenzene	11.600	146	85254	2.188	ppbv	99
76) 1,4-Dichlorobenzene	11.665	146	83440	2.189	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	82311	2.150	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	78291	2.259	ppbv	99
79) Naphthalene	13.510	128	79191	1.690	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	5851	1.298	ppbv	90
81) 1,2,4-Trichlorobenzene	13.435	180	51515	1.888	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. -0.004 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

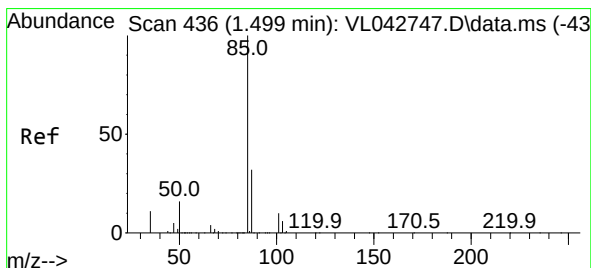
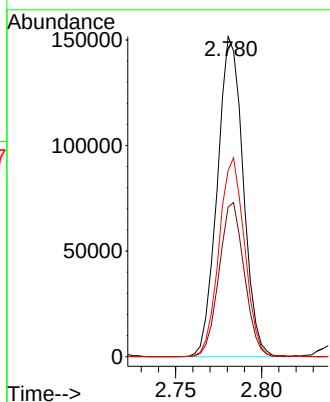
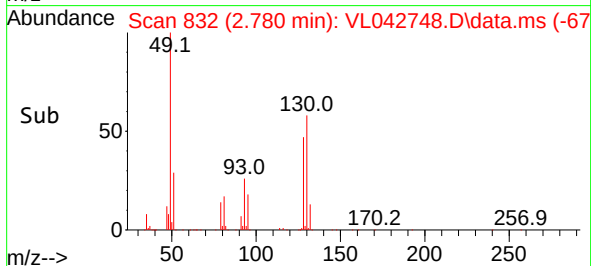
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 49 Resp: 158579
Ion Ratio Lower Upper
49 100
128 47.0 23.6 71.0
130 61.6 30.3 90.8

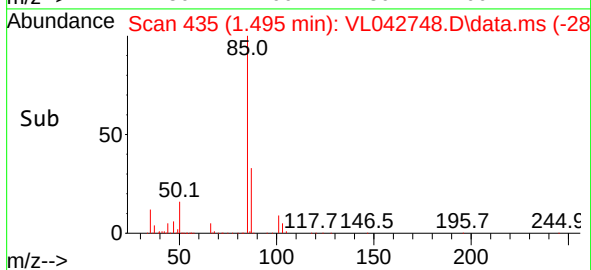
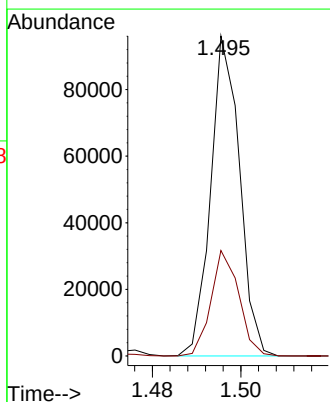
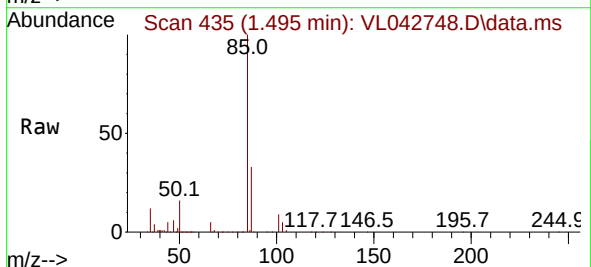
Manual Integrations
APPROVED

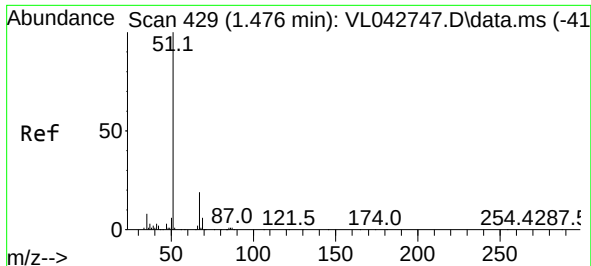
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#2
Dichlorodifluoromethane
Concen: 2.083 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 85 Resp: 43675
Ion Ratio Lower Upper
85 100
87 33.0 25.4 38.2





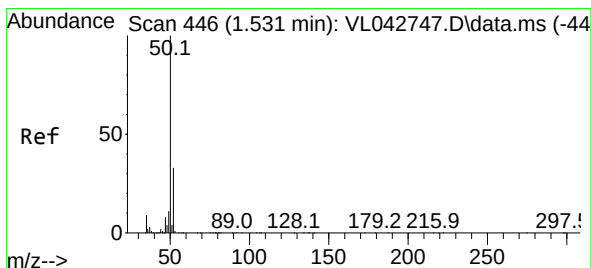
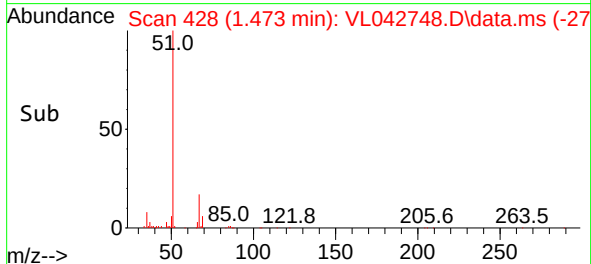
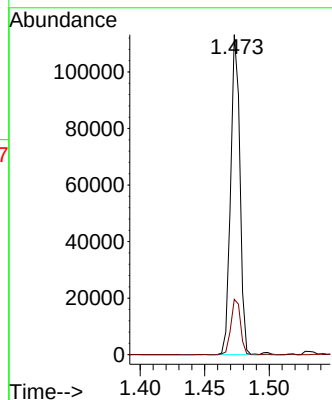
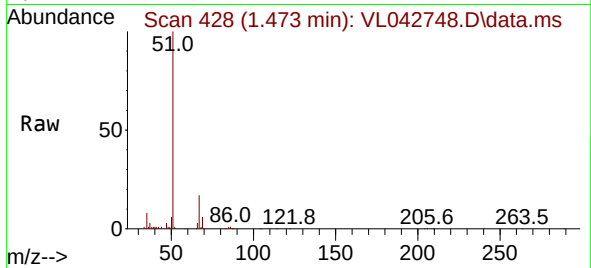
#3
Chlorodifluoromethane
Concen: 2.058 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 51 Resp: 56214
Ion Ratio Lower Upper
51 100
67 18.3 15.0 22.6

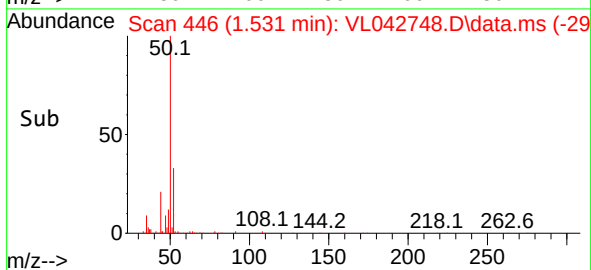
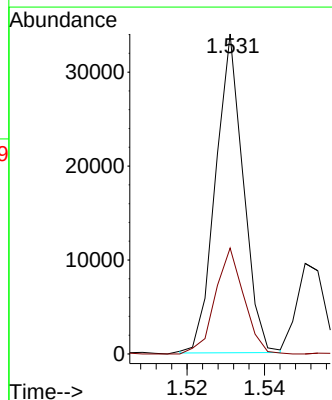
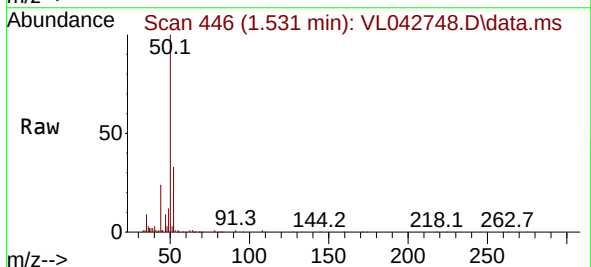
Manual Integrations
APPROVED

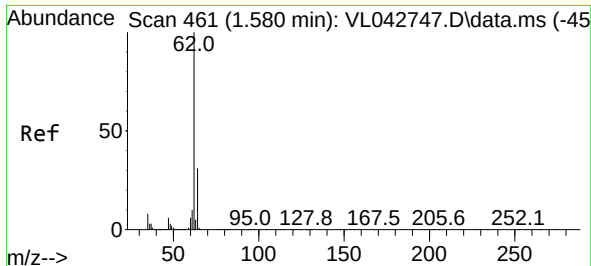
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#4
Chloromethane
Concen: 1.985 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 50 Resp: 16834
Ion Ratio Lower Upper
50 100
52 33.1 26.6 40.0





#5
 Vinyl Chloride
 Concen: 1.836 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

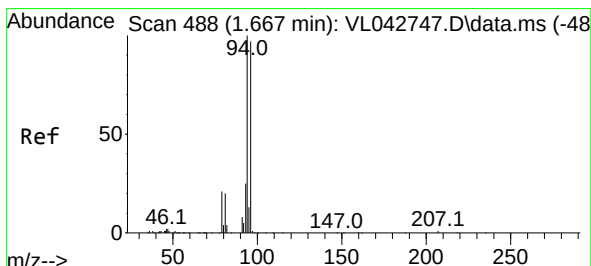
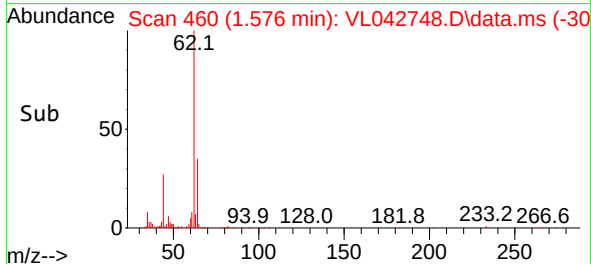
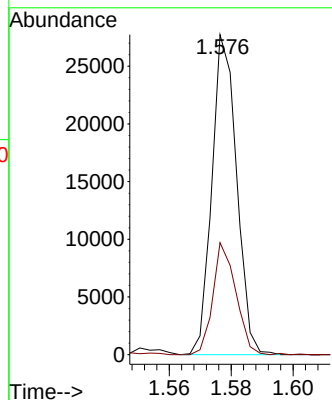
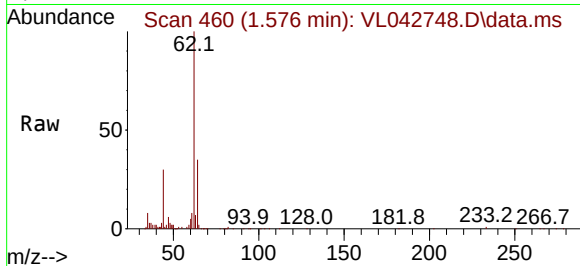
ClientSampleId :

VSTDICC002

Tgt Ion: 62 Resp: 15384
 Ion Ratio Lower Upper
 62 100
 64 35.0 24.5 36.7

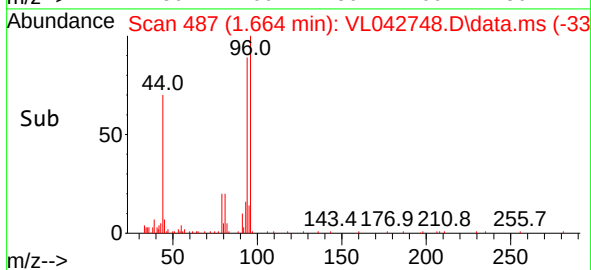
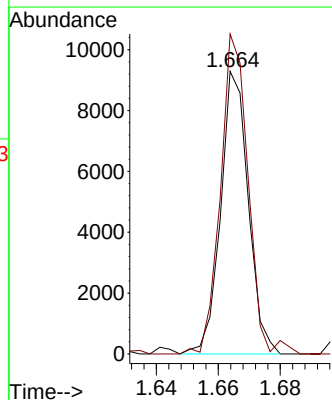
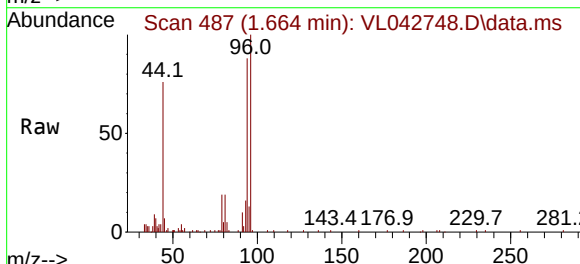
Manual Integrations
 APPROVED

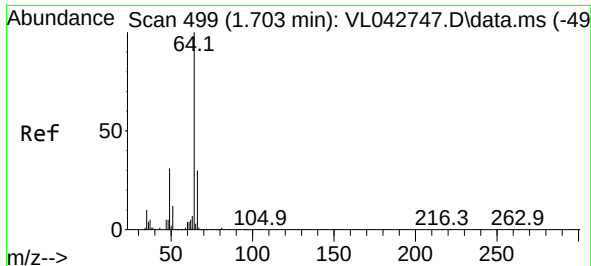
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#6
 Bromomethane
 Concen: 1.776 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

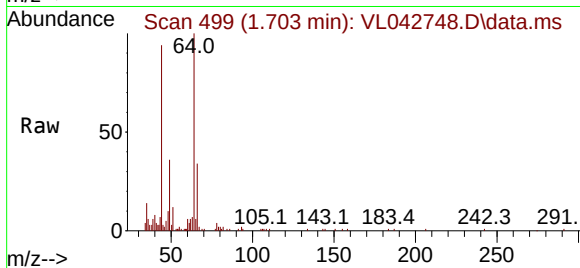
Tgt Ion: 94 Resp: 5754
 Ion Ratio Lower Upper
 94 100
 96 113.3 77.6 116.4





#7
Chloroethane
Concen: 1.853 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

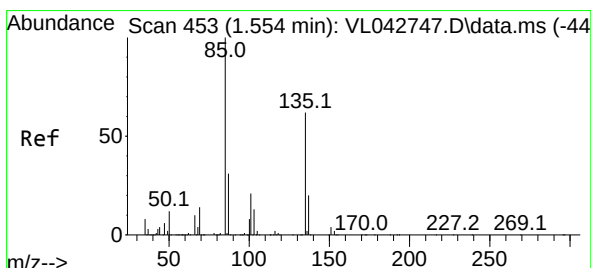
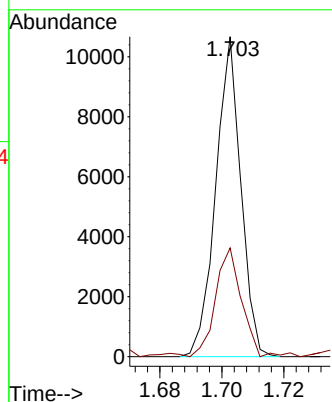
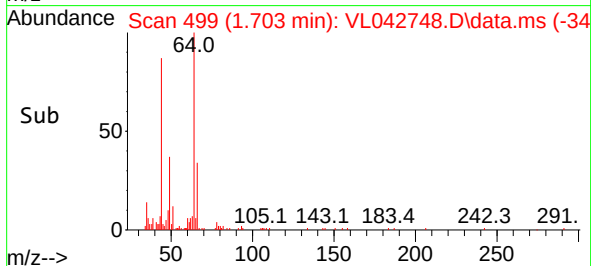
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



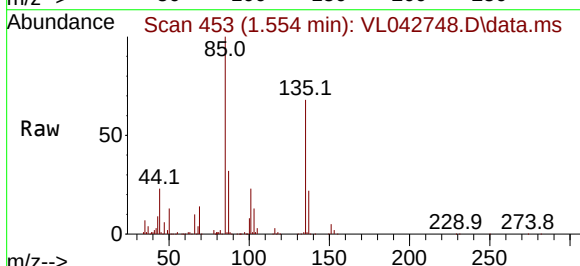
Tgt Ion: 64 Resp: 600
Ion Ratio Lower Upper
64 100
66 34.0 24.1 36.1

Manual Integrations
APPROVED

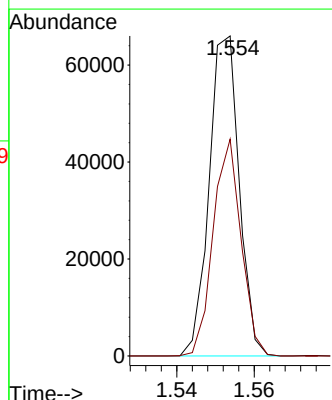
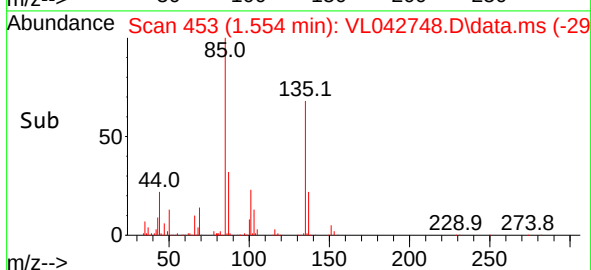
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

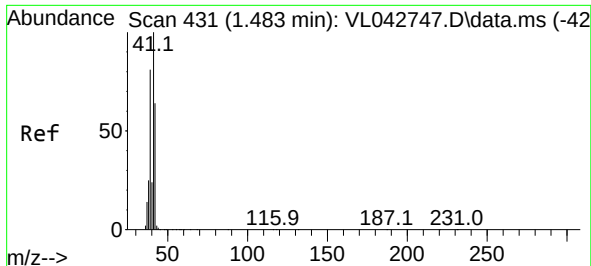


#8
Dichlorotetrafluoroethane
Concen: 2.066 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



Tgt Ion: 85 Resp: 35629
Ion Ratio Lower Upper
85 100
135 63.0 50.6 76.0





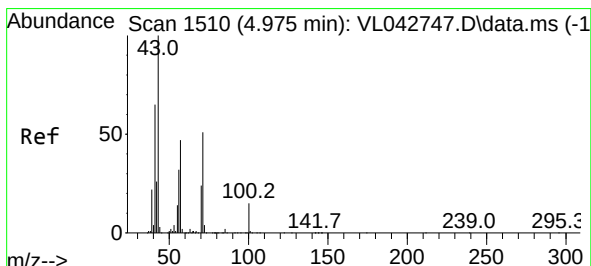
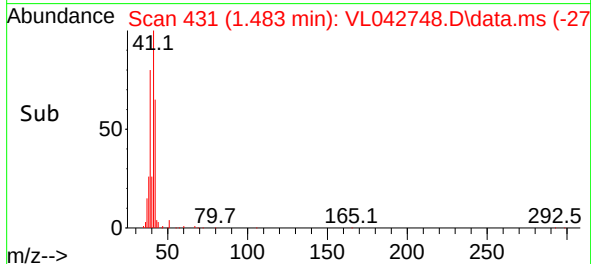
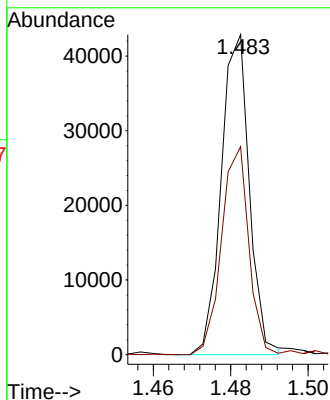
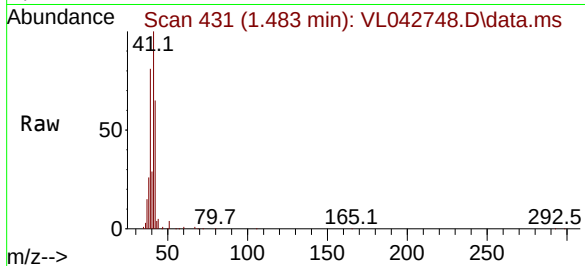
#9
Propene
Concen: 2.175 ppbv
RT: 1.483 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 41 Resp: 21592
Ion Ratio Lower Upper
41 100
42 64.5 53.2 79.8

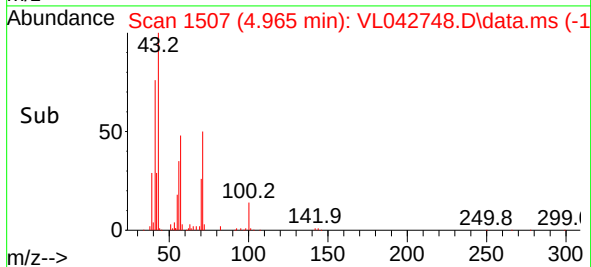
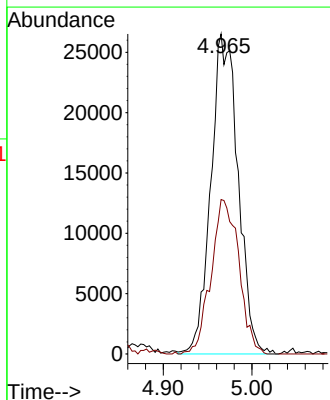
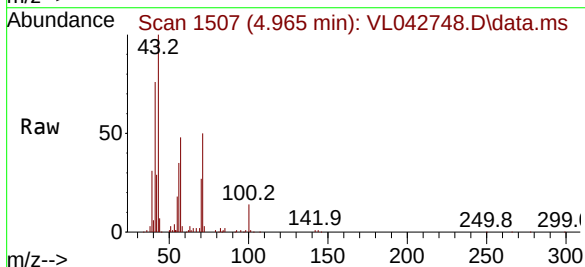
Manual Integrations
APPROVED

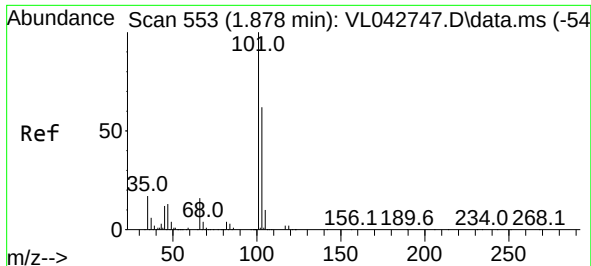
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#10
Heptane
Concen: 2.114 ppbv m
RT: 4.965 min Scan# 1507
Delta R.T. -0.010 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

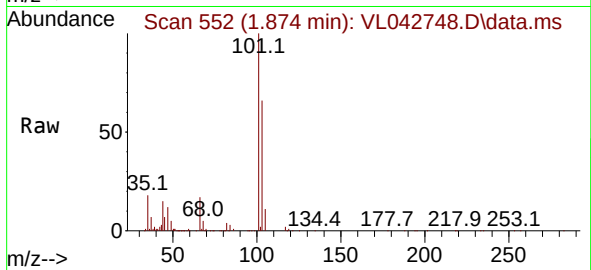
Tgt Ion: 43 Resp: 56442
Ion Ratio Lower Upper
43 100
57 49.3 39.9 59.9





#11
Trichlorofluoromethane
Concen: 2.072 ppbv
RT: 1.874 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

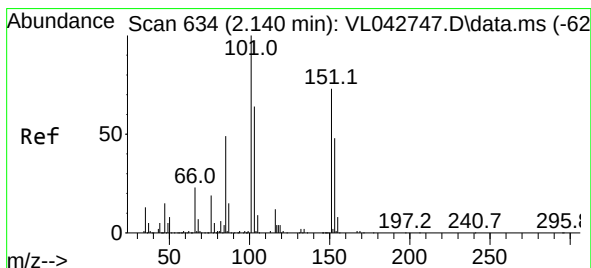
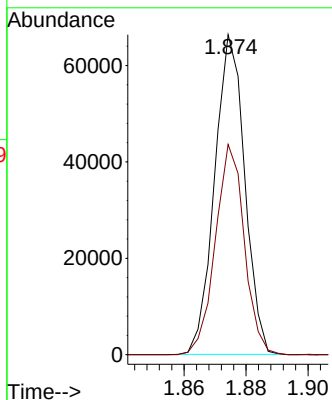
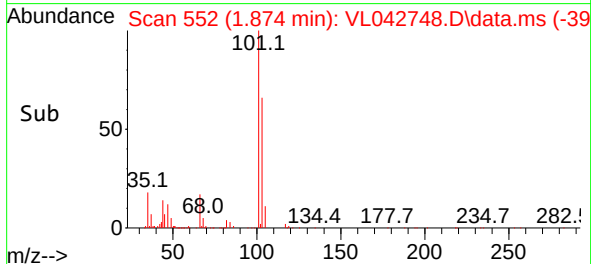
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



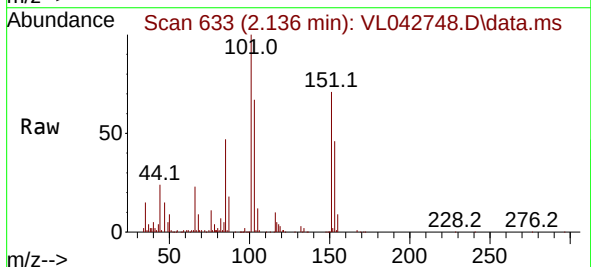
Tgt Ion:101 Resp: 44770
Ion Ratio Lower Upper
101 100
103 65.8 49.6 74.4

Manual Integrations
APPROVED

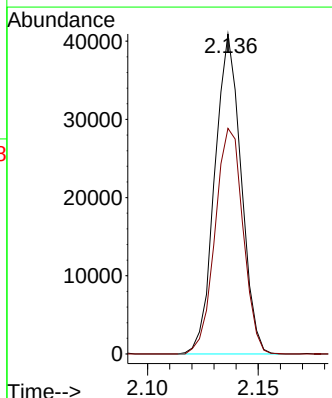
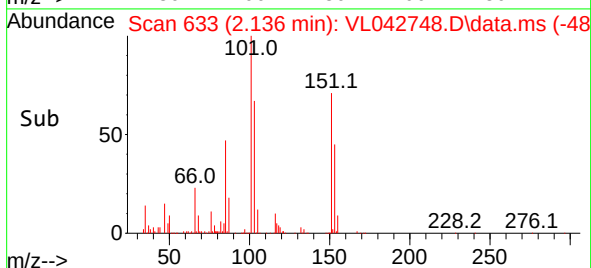
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

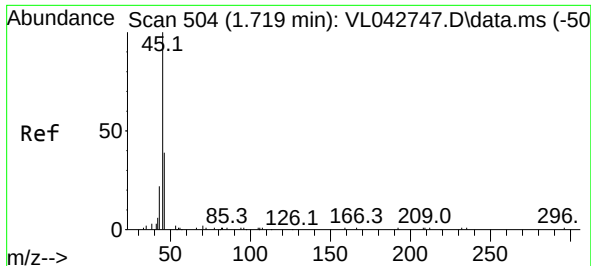


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.065 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



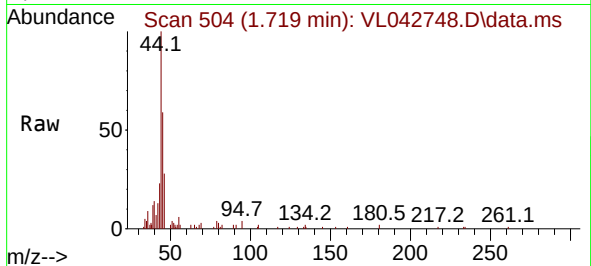
Tgt Ion:101 Resp: 33910
Ion Ratio Lower Upper
101 100
151 74.9 60.5 90.7





#13
Ethanol
Concen: 2.155 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

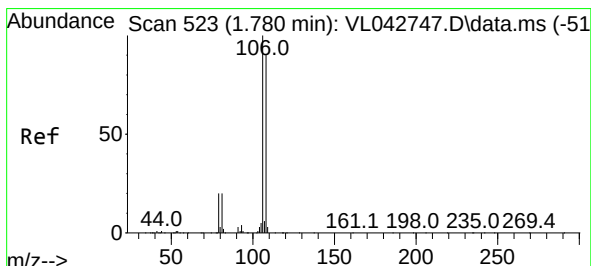
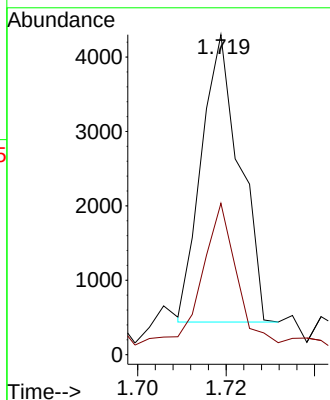
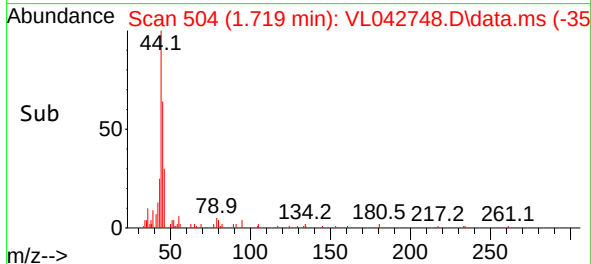
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



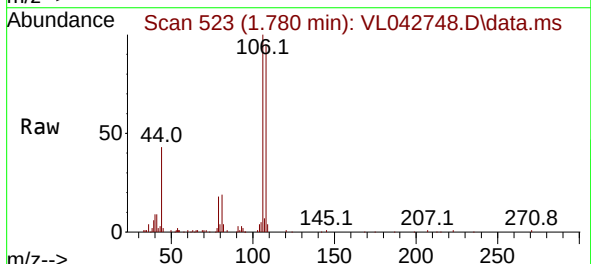
Tgt Ion: 45 Resp: 232
Ion Ratio Lower Upper
45 100
46 58.7 17.8 71.4

Manual Integrations
APPROVED

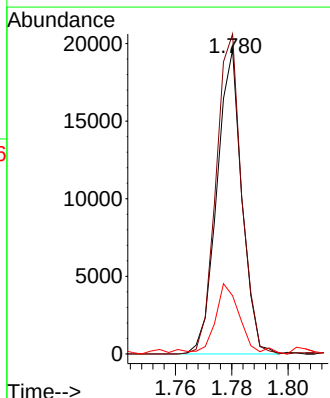
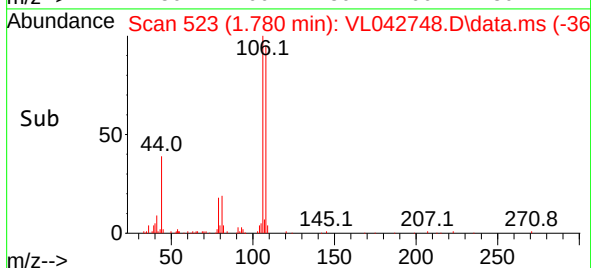
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

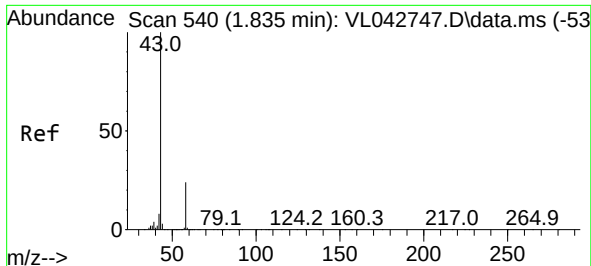


#14
Bromoethene
Concen: 2.077 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



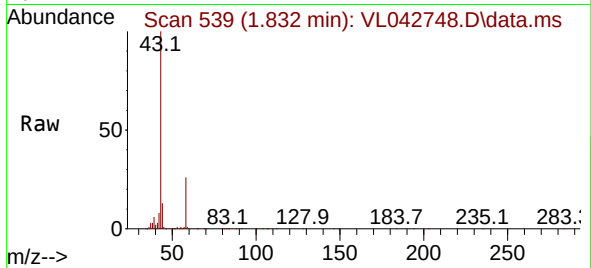
Tgt Ion:108 Resp: 12078
Ion Ratio Lower Upper
108 100
106 107.6 84.7 127.1
79 29.2 17.4 26.2#





#15
Acetone
Concen: 2.202 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

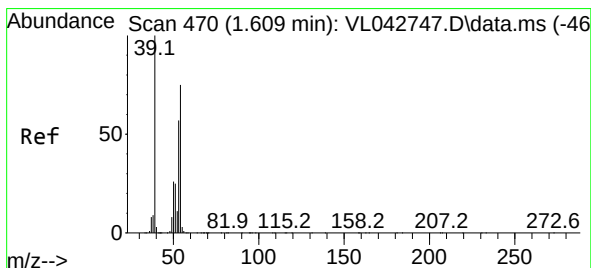
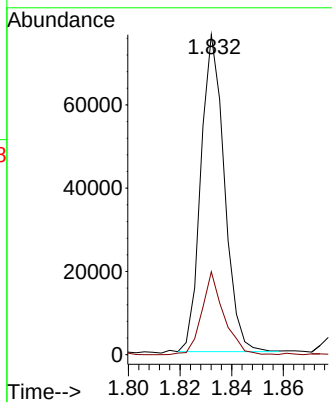
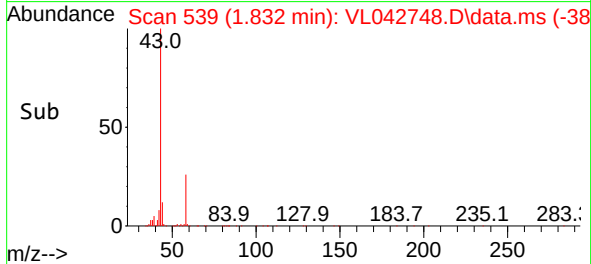
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 43 Resp: 48220
Ion Ratio Lower Upper
43 100
58 25.0 19.8 29.8

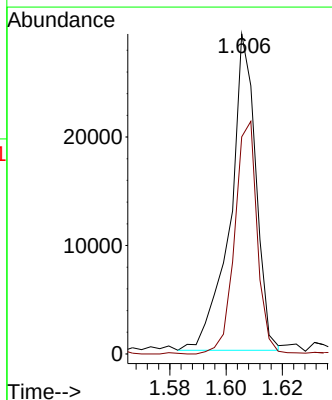
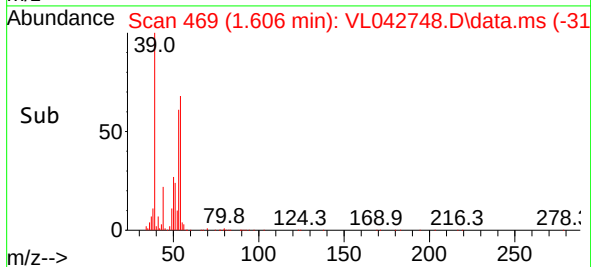
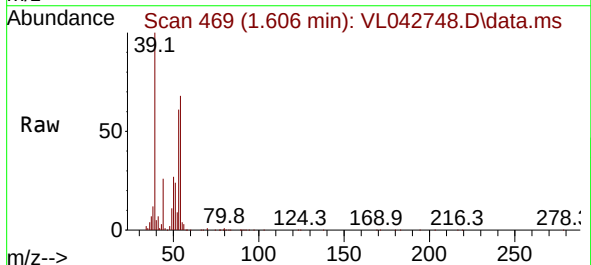
Manual Integrations
APPROVED

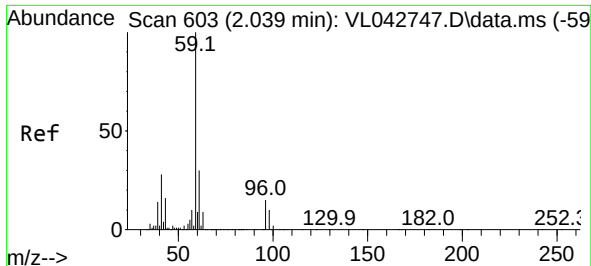
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#16
1,3-Butadiene
Concen: 1.981 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 39 Resp: 18504
Ion Ratio Lower Upper
39 100
54 65.0 54.5 81.7





#17

tert-Butyl alcohol

Concen: 2.032 ppbv

RT: 2.036 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 59 Resp: 4013

Ion Ratio Lower Upper

59 100

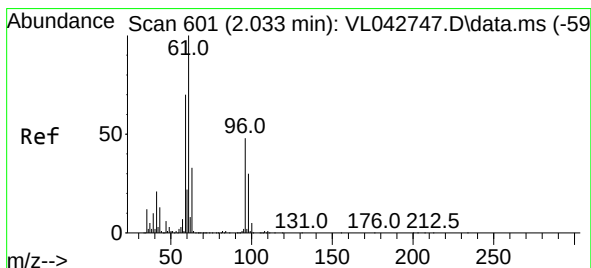
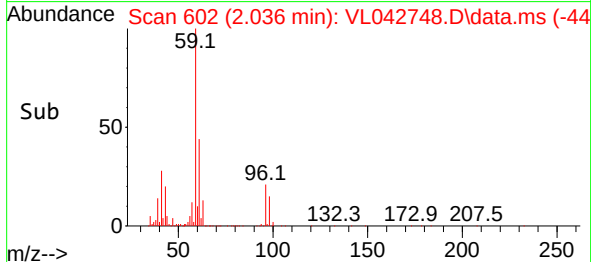
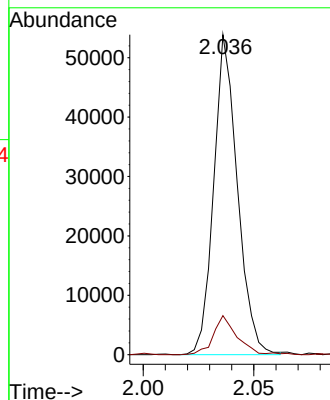
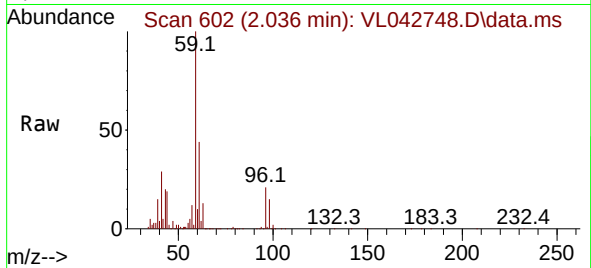
57 12.9 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#18

1,1-Dichloroethene

Concen: 1.938 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

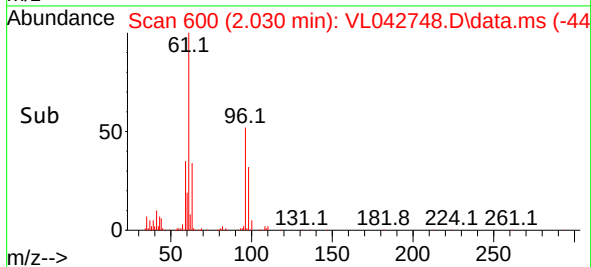
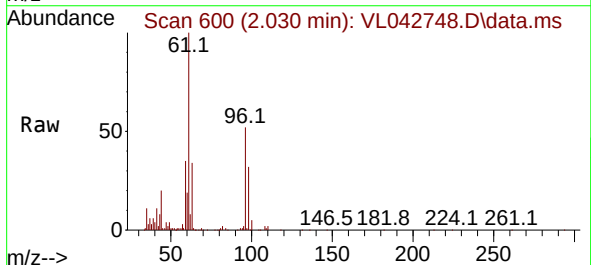
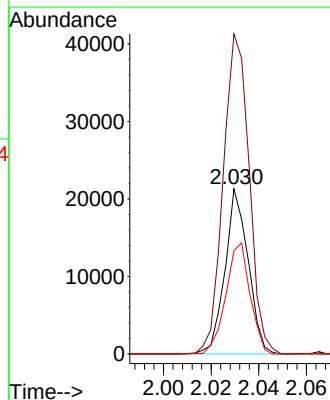
Tgt Ion: 96 Resp: 14381

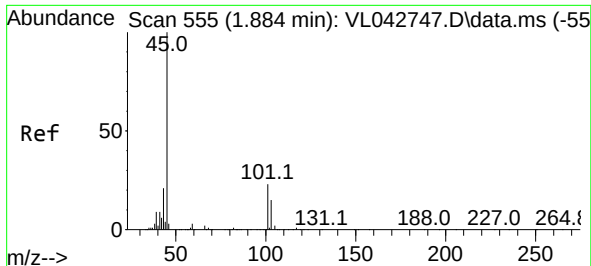
Ion Ratio Lower Upper

96 100

61 193.9 165.8 248.6

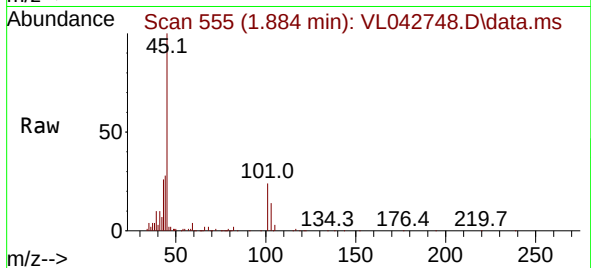
98 62.7 49.9 74.9





#19
Isopropyl Alcohol
Concen: 1.979 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

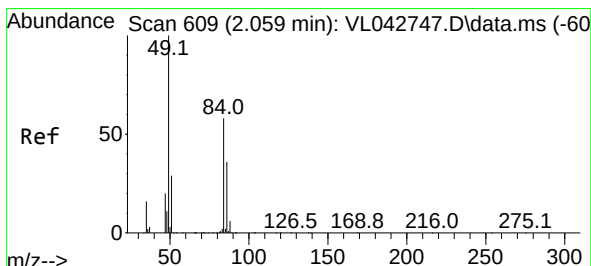
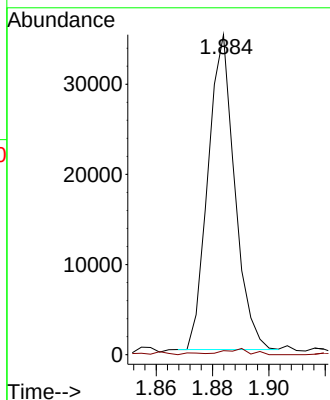
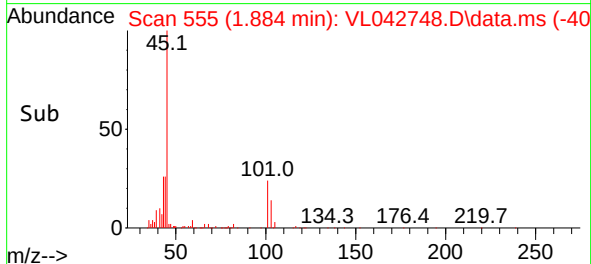
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



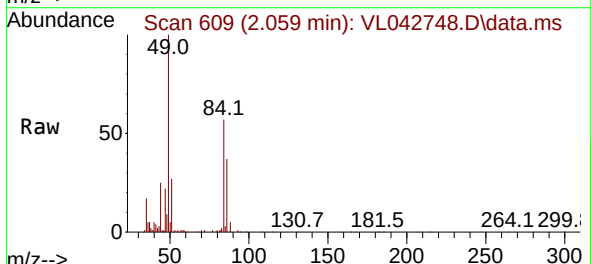
Tgt Ion: 45 Resp: 23028
Ion Ratio Lower Upper
45 100
58 52.5 30.0 45.0

Manual Integrations
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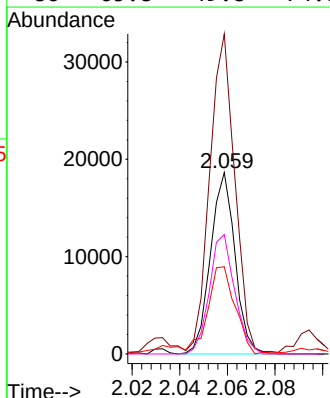
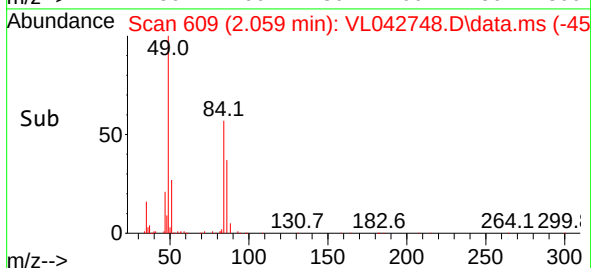
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

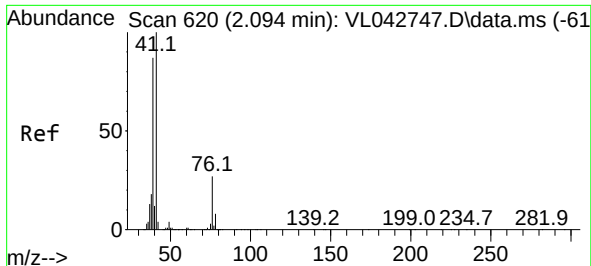


#20
Methylene Chloride
Concen: 1.927 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



Tgt Ion: 84 Resp: 13296
Ion Ratio Lower Upper
84 100
49 175.4 138.6 208.0
51 47.4 40.6 61.0
86 65.8 49.8 74.8





#21
 Allyl Chloride
 Concen: 2.059 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

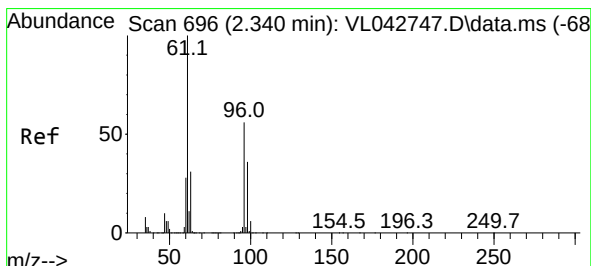
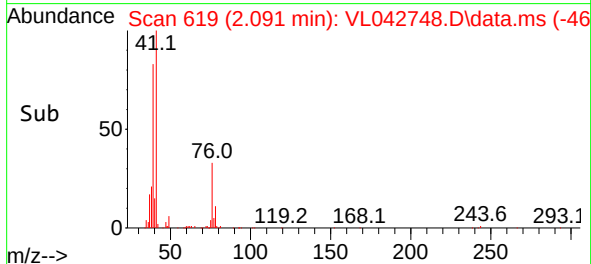
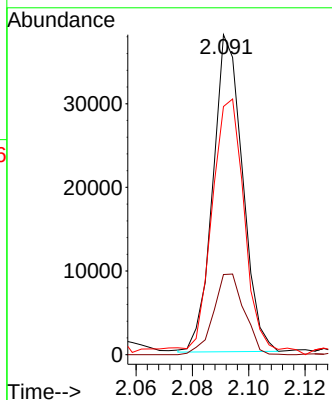
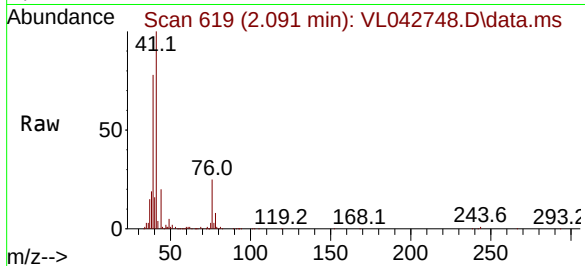
ClientSampleId :

VSTDICC002

Tgt Ion: 41 Resp: 27789
 Ion Ratio Lower Upper
 41 100
 76 26.3 21.1 31.7
 39 89.5 68.3 102.5

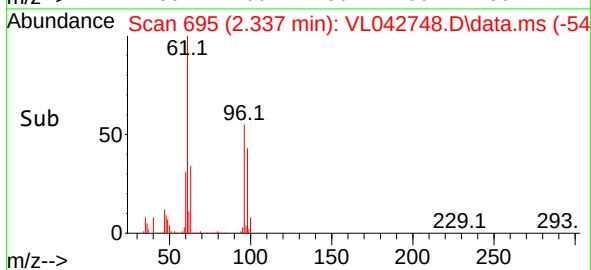
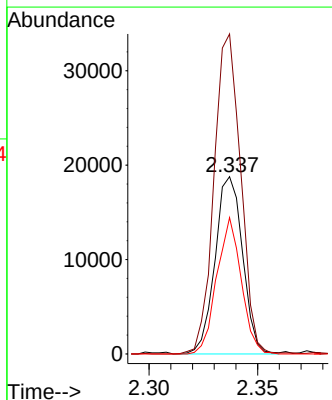
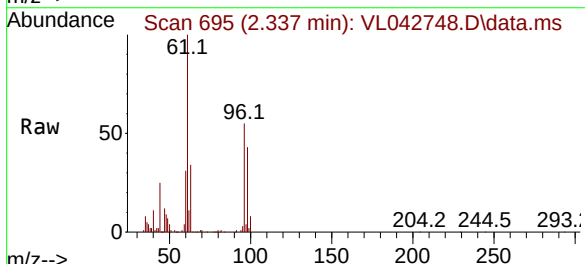
Manual Integrations
 APPROVED

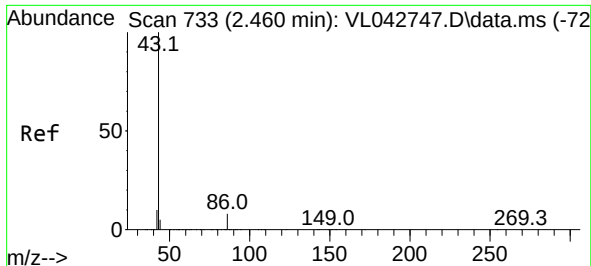
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#22
 trans-1,2-Dichloroethene
 Concen: 2.081 ppbv m
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion: 96 Resp: 16591
 Ion Ratio Lower Upper
 96 100
 61 180.5 142.3 213.5
 98 76.8 50.6 76.0#





#23
 Vinyl Acetate
 Concen: 2.017 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

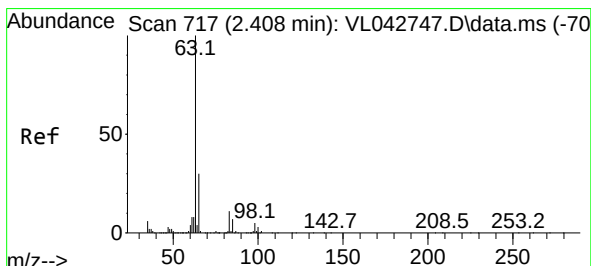
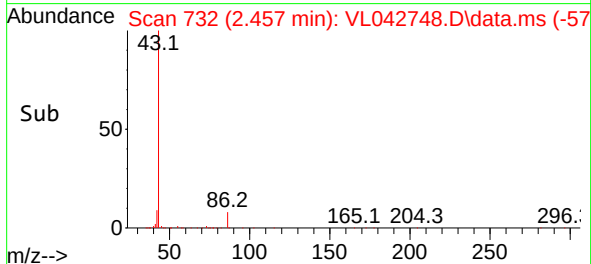
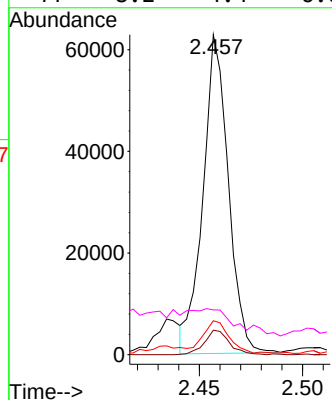
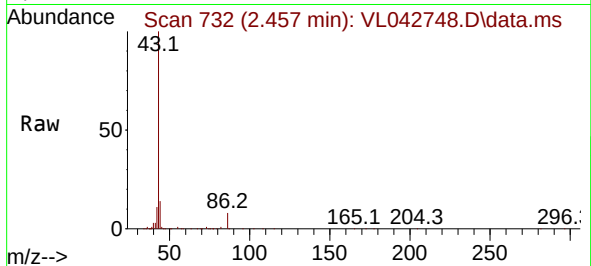
VSTDIC002

Tgt Ion: 43 Resp: 53544
 Ion Ratio Lower Upper
 43 100
 86 7.6 6.1 9.1
 42 10.1 7.8 11.8
 44 8.2 4.4 6.6#

Manual Integrations

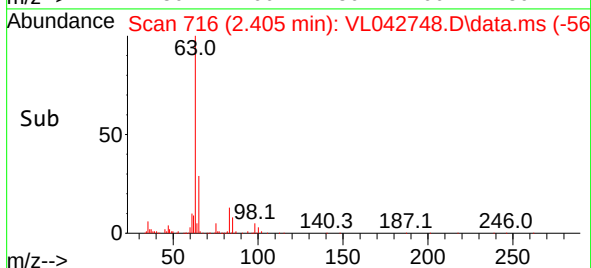
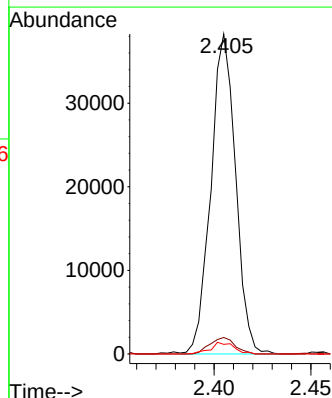
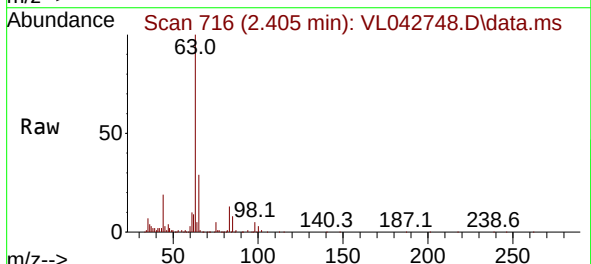
APPROVED

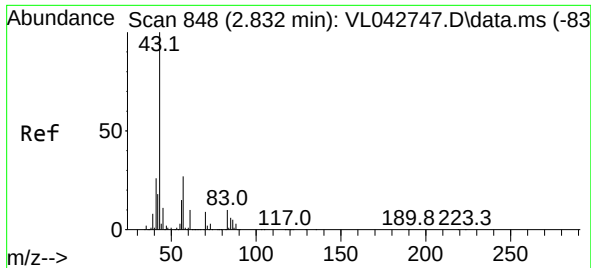
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#24
 1,1-Dichloroethane
 Concen: 2.073 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

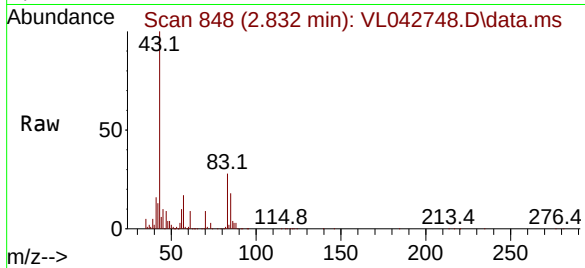
Tgt Ion: 63 Resp: 33969
 Ion Ratio Lower Upper
 63 100
 98 5.2 2.5 7.4
 100 3.0 1.6 4.8





#25
Ethyl Acetate
Concen: 2.101 ppbv
RT: 2.832 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

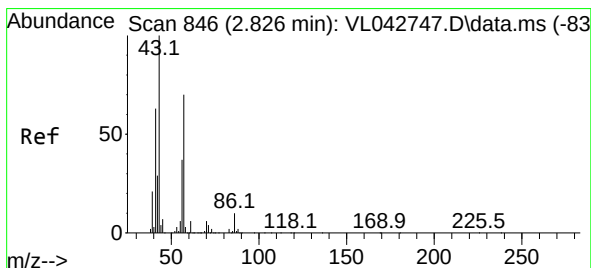
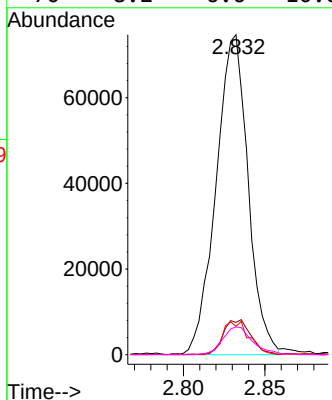
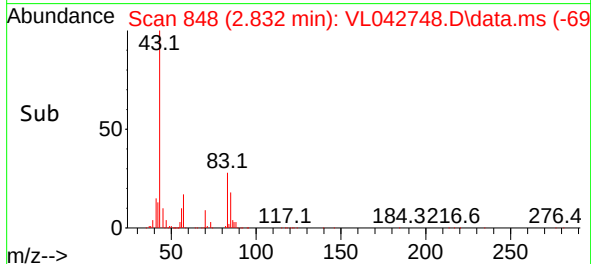
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



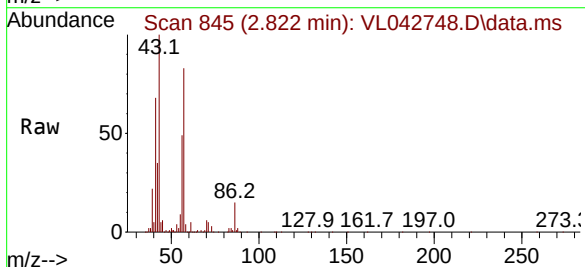
Tgt Ion: 43 Resp: 10185
Ion Ratio Lower Upper
43 100
45 9.9 7.8 11.6
61 8.9 6.7 10.1
70 8.2 6.6 10.0

Manual Integrations
APPROVED

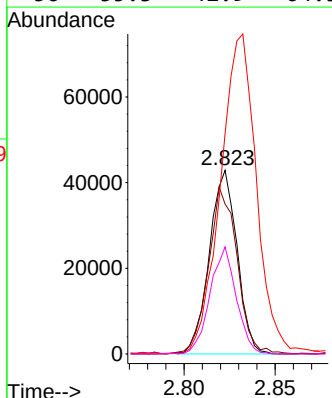
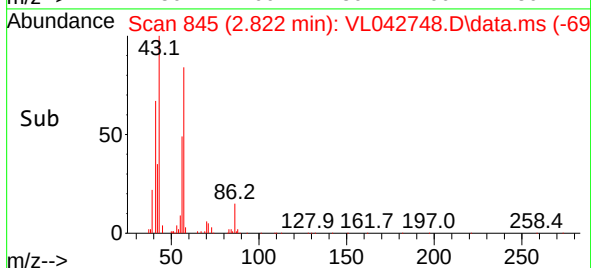
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

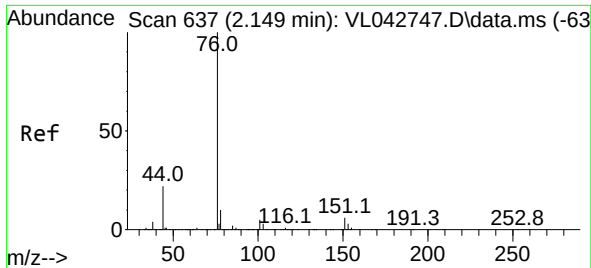


#26
Hexane
Concen: 2.137 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



Tgt Ion: 57 Resp: 45446
Ion Ratio Lower Upper
57 100
41 94.1 75.4 113.2
43 230.2 185.0 277.6
56 55.3 42.9 64.3





#27

Carbon Disulfide

Concen: 2.030 ppbv

RT: 2.146 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

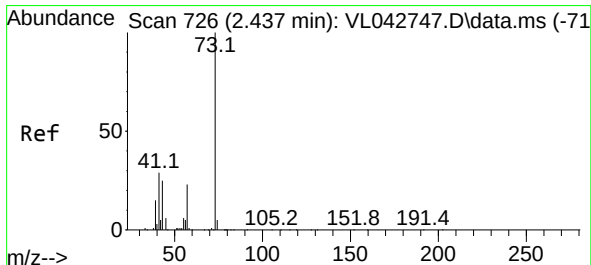
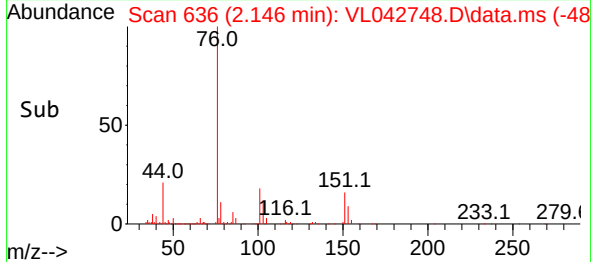
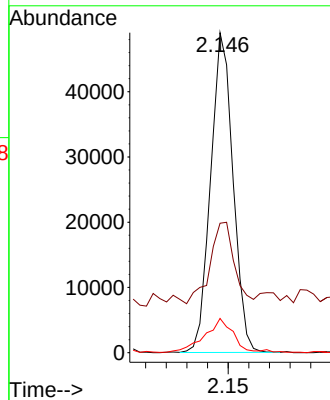
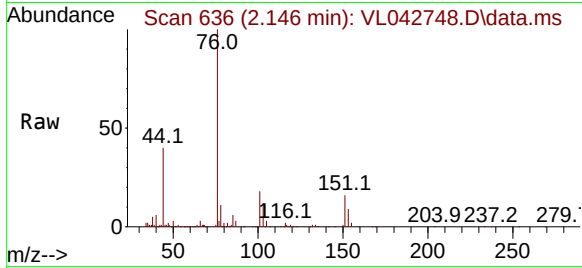
VSTDIC002

Tgt Ion: 76	Resp: 3694
Ion Ratio	Lower Upper
76 100	
44 71.1	19.3 28.9
78 13.6	9.9 14.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#28

Methyl tert-Butyl Ether

Concen: 2.051 ppbv

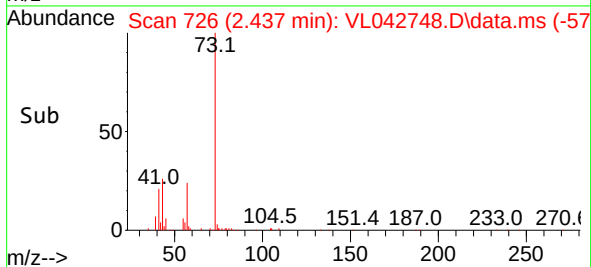
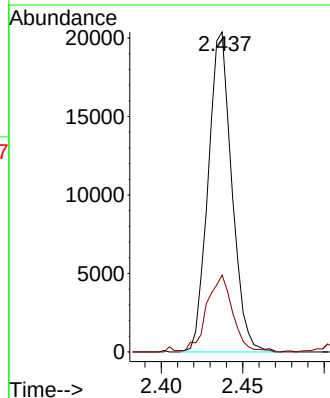
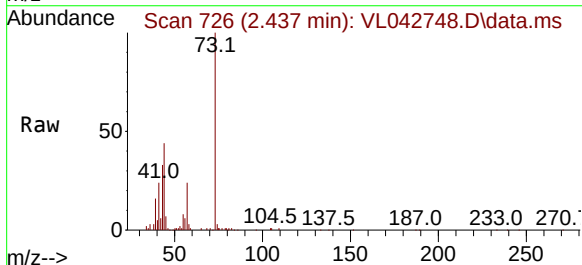
RT: 2.437 min Scan# 726

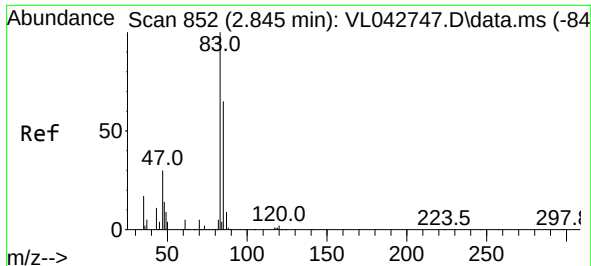
Delta R.T. -0.000 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Tgt Ion: 73	Resp: 20603
Ion Ratio	Lower Upper
73 100	
57 26.7	19.8 29.8





#29

Chloroform

Concen: 2.062 ppbv

RT: 2.842 min Scan# 851

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 83 Resp: 6775

Ion Ratio Lower Upper

83 100

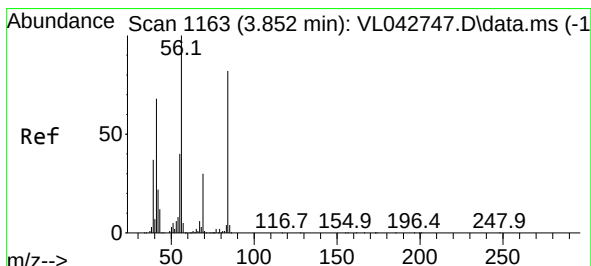
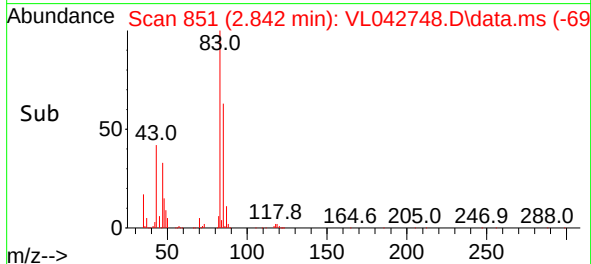
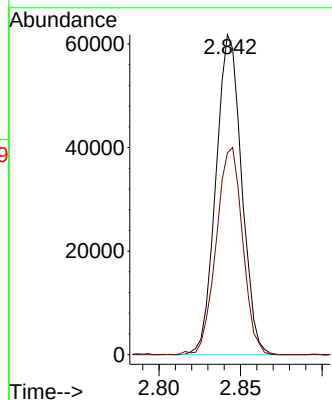
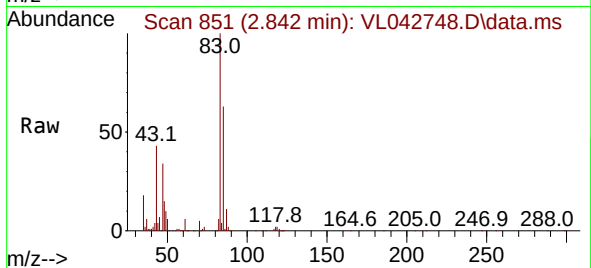
85 63.0 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#30

Cyclohexane

Concen: 2.113 ppbv m

RT: 3.845 min Scan# 1161

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

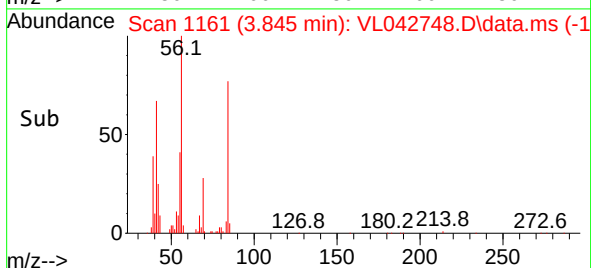
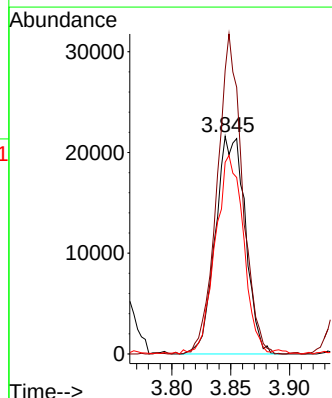
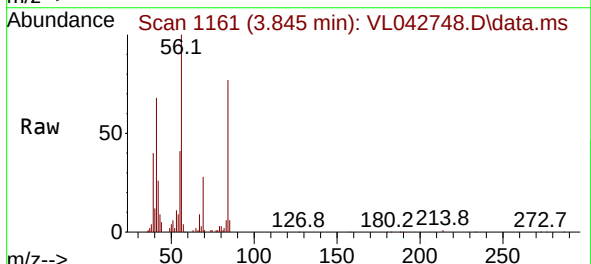
Tgt Ion: 84 Resp: 38095

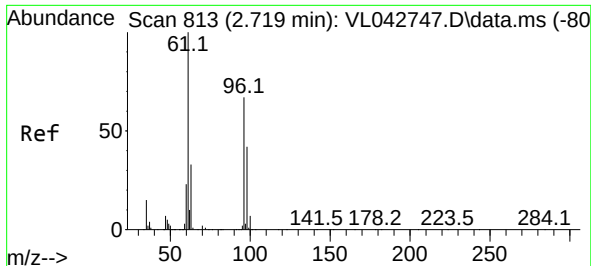
Ion Ratio Lower Upper

84 100

56 124.9 97.5 146.3

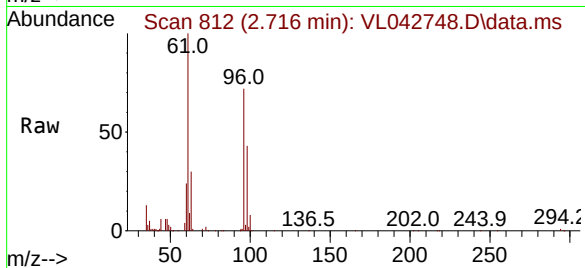
41 87.4 67.2 100.8





#31
 cis-1,2-Dichloroethene
 Concen: 2.053 ppbv
 RT: 2.716 min Scan# 813
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

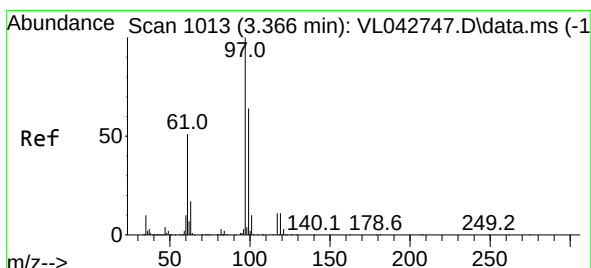
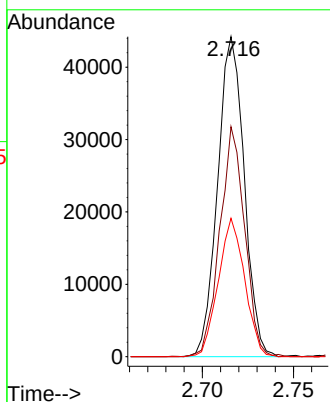
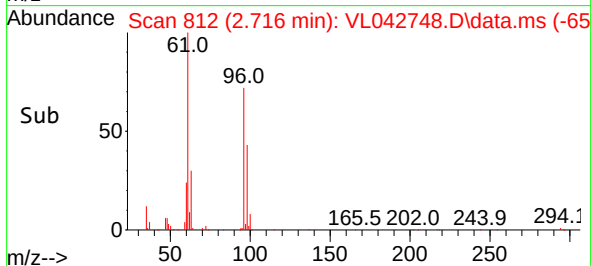
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002



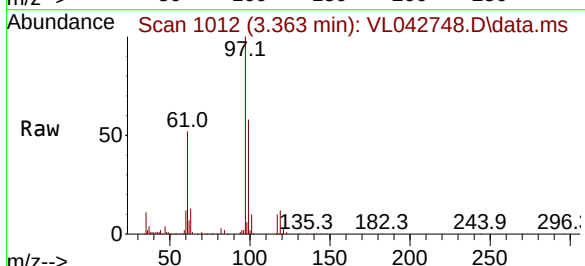
Tgt Ion: 61 Resp: 44860
 Ion Ratio Lower Upper
 61 100
 96 71.8 53.5 80.3
 98 43.3 33.6 50.4

Manual Integrations
 APPROVED

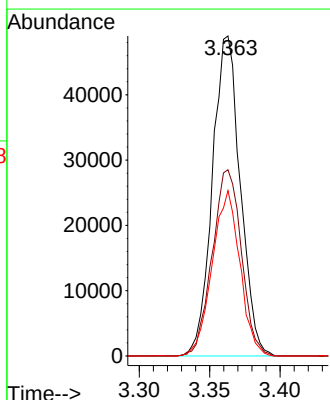
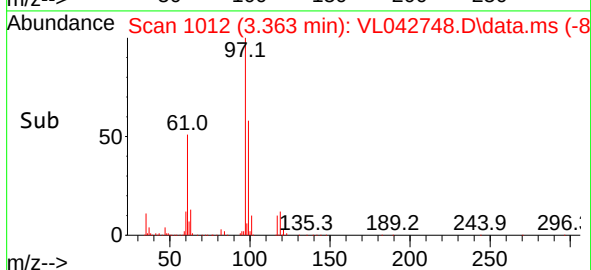
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

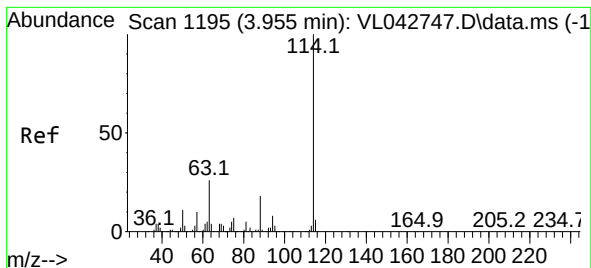


#32
 1,1,1-Trichloroethane
 Concen: 1.976 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34



Tgt Ion: 97 Resp: 67608
 Ion Ratio Lower Upper
 97 100
 99 60.8 51.0 76.6
 61 51.3 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion:114 Resp: 457804

Ion Ratio Lower Upper

114 100

63 25.7 20.5 30.7

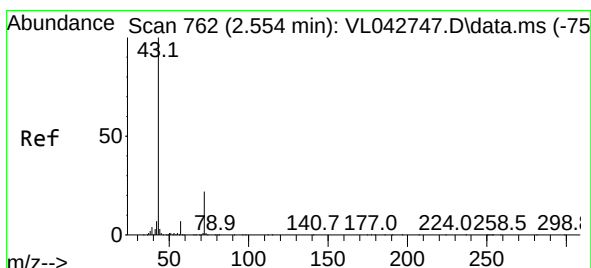
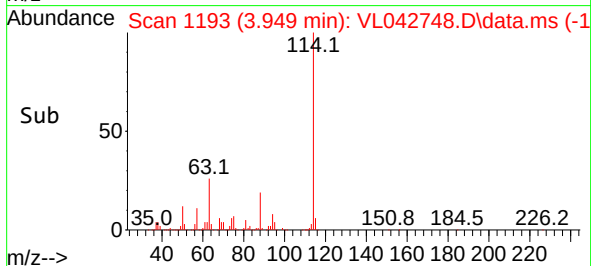
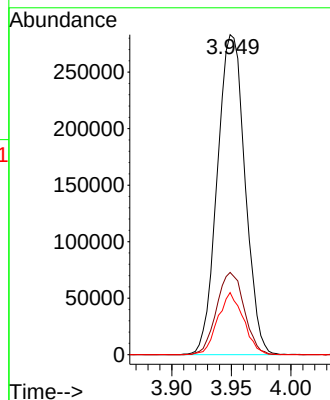
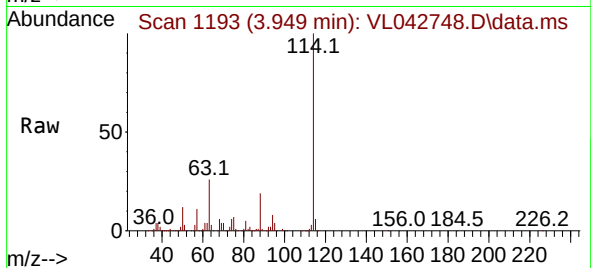
88 18.0 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#34

2-Butanone

Concen: 2.149 ppbv

RT: 2.551 min Scan# 761

Delta R.T. -0.003 min

Lab File: VL042748.D

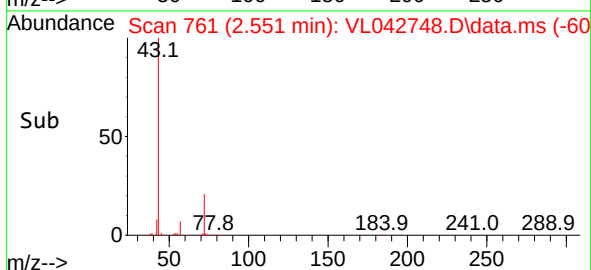
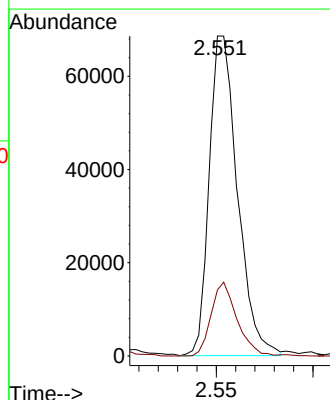
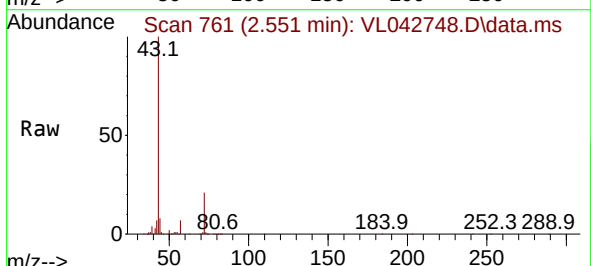
Acq: 23 Jul 2025 09:34

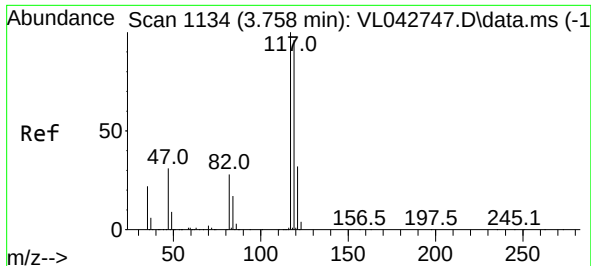
Tgt Ion: 43 Resp: 69674

Ion Ratio Lower Upper

43 100

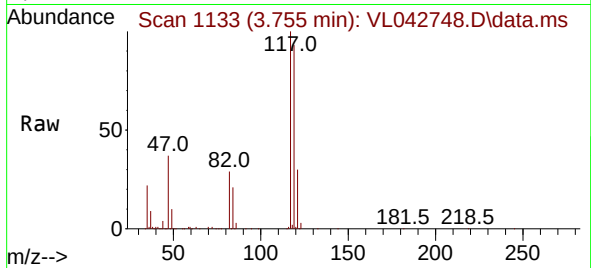
72 21.2 17.4 26.0





#35
Carbon Tetrachloride
Concen: 1.979 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

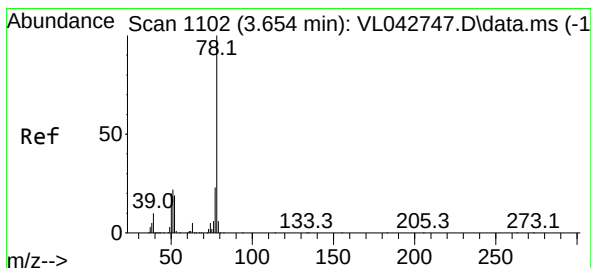
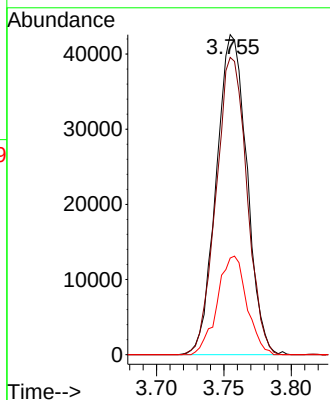
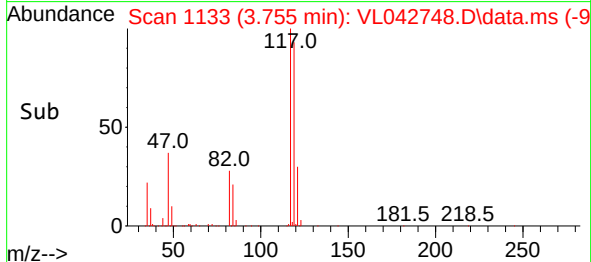
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 117 Resp: 67338
Ion Ratio Lower Upper
117 100
119 92.9 77.1 115.7
121 30.2 25.5 38.3

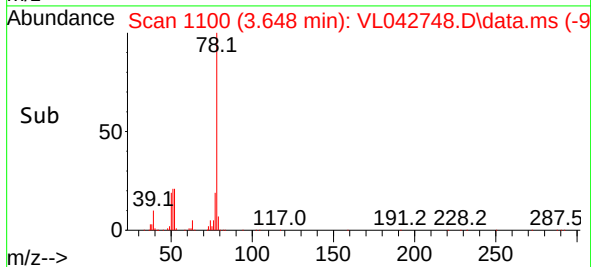
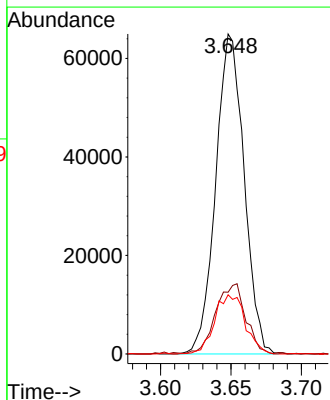
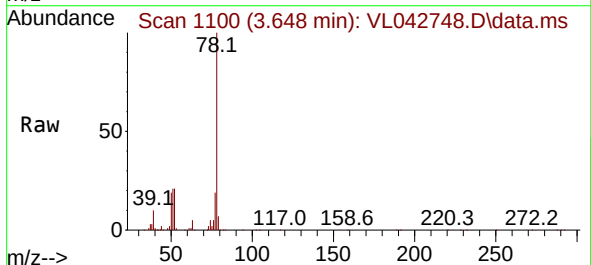
Manual Integrations
APPROVED

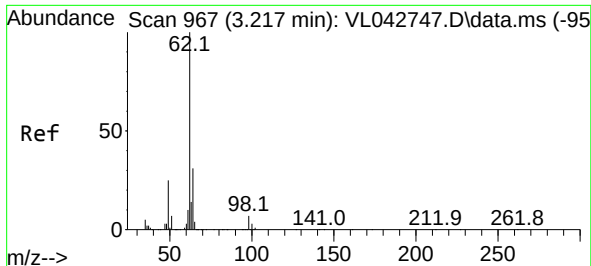
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#36
Benzene
Concen: 2.101 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

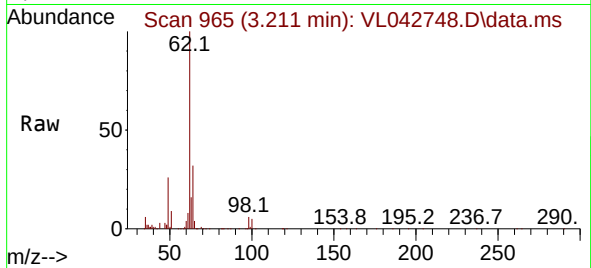
Tgt Ion: 78 Resp: 91141
Ion Ratio Lower Upper
78 100
77 19.0 18.5 27.7
50 18.5 16.2 24.2





#37
1,2-Dichloroethane
Concen: 2.046 ppbv
RT: 3.211 min Scan# 90
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

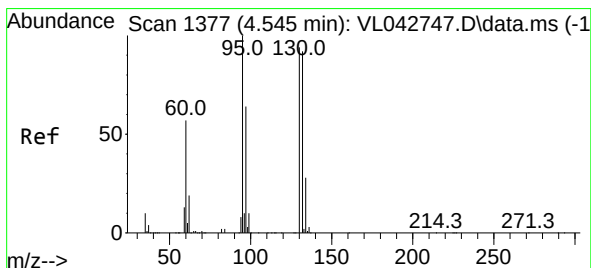
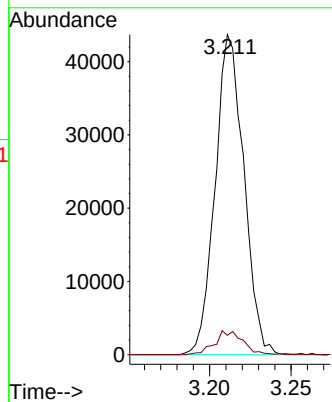
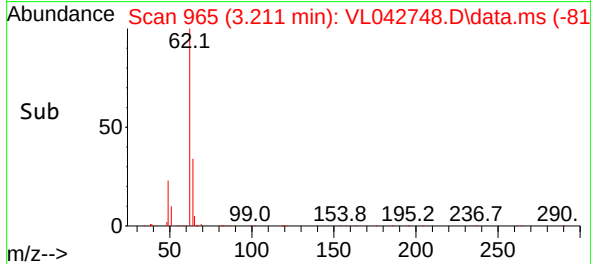
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 62 Resp: 5348
Ion Ratio Lower Upper
62 100
98 7.3 5.2 7.8

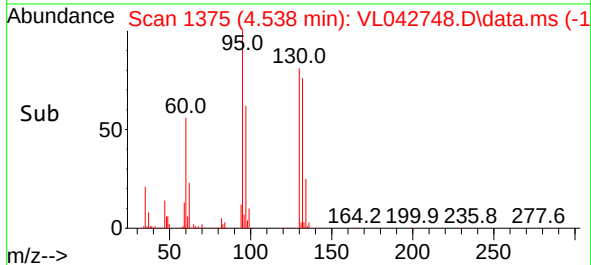
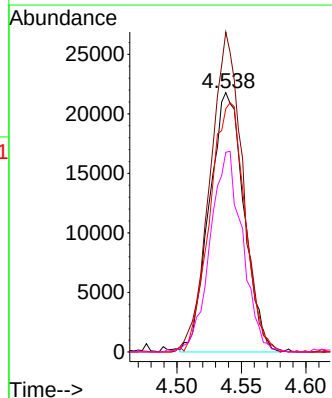
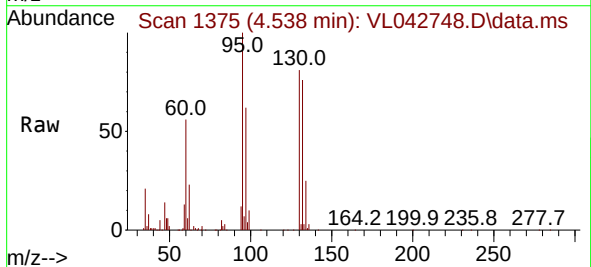
Manual Integrations
APPROVED

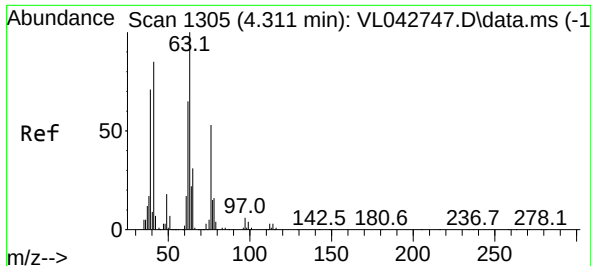
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#38
Trichloroethene
Concen: 1.946 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:130 Resp: 40713
Ion Ratio Lower Upper
130 100
95 122.9 85.4 128.2
132 94.1 78.2 117.2
97 76.6 54.8 82.2





#39

1,2-Dichloropropane

Concen: 2.075 ppbv

RT: 4.305 min Scan# 1303

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

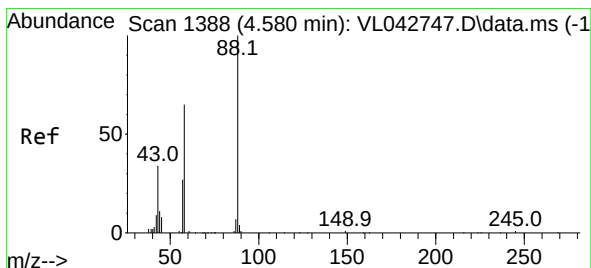
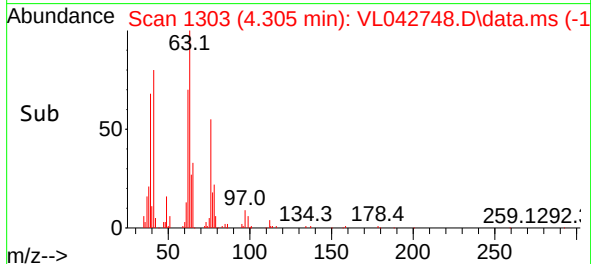
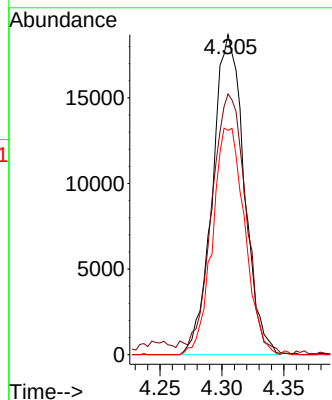
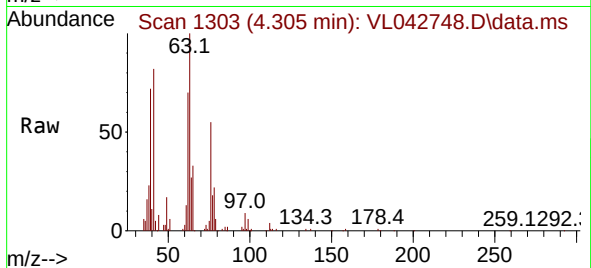
Tgt Ion: 63 Resp: 33225

Ion	Ratio	Lower	Upper
63	100		
41	80.8	68.2	102.4
62	70.1	52.0	78.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#40

1,4-Dioxane

Concen: 2.104 ppbv m

RT: 4.583 min Scan# 1389

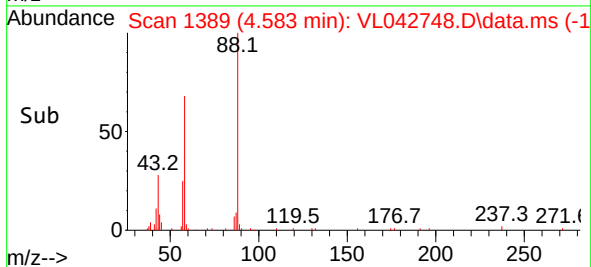
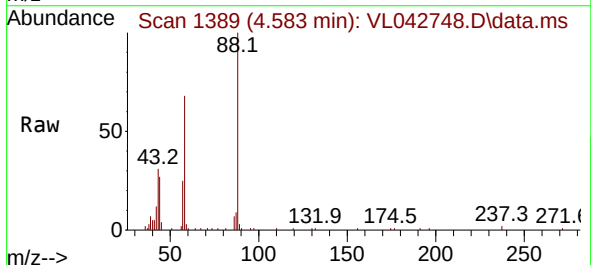
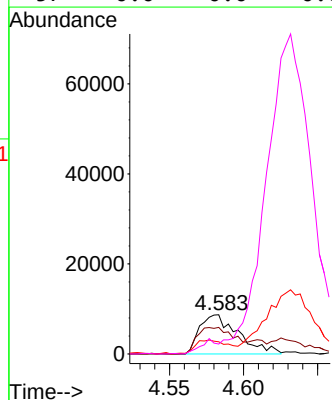
Delta R.T. 0.003 min

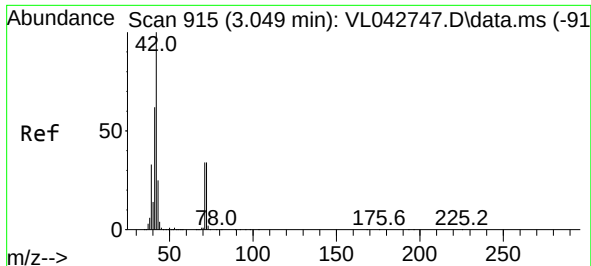
Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Tgt Ion: 88 Resp: 15890

Ion	Ratio	Lower	Upper
88	100		
58	80.9	58.8	88.2
43	0.0	28.9	43.3#
57	0.0	0.0	0.0





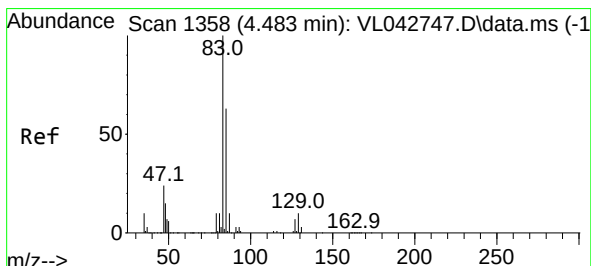
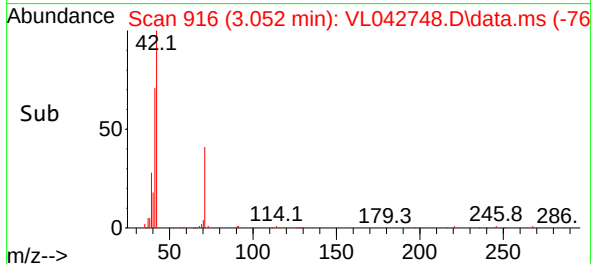
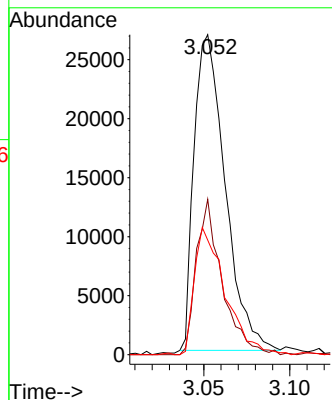
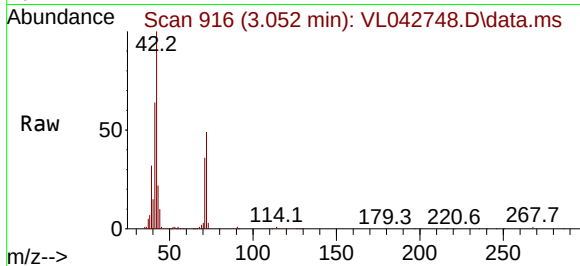
#41
Tetrahydrofuran
Concen: 2.064 ppbv
RT: 3.052 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 42 Resp: 33618
Ion Ratio Lower Upper
42 100
72 41.3 30.9 46.3
71 40.4 28.6 43.0

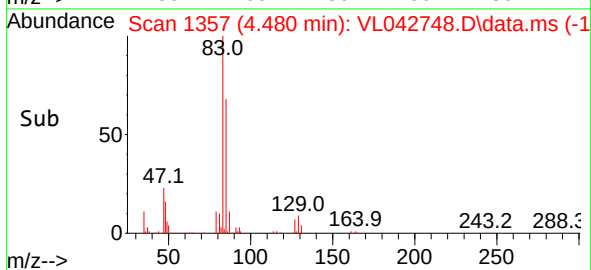
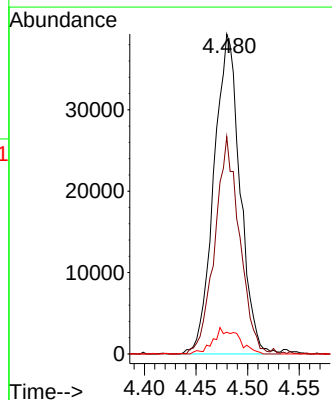
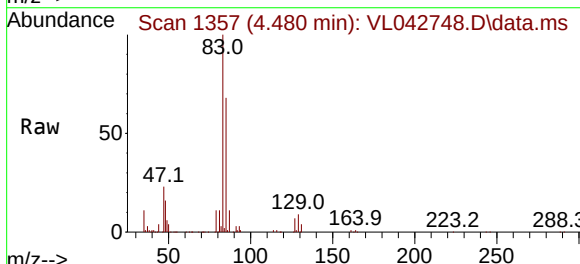
Manual Integrations
APPROVED

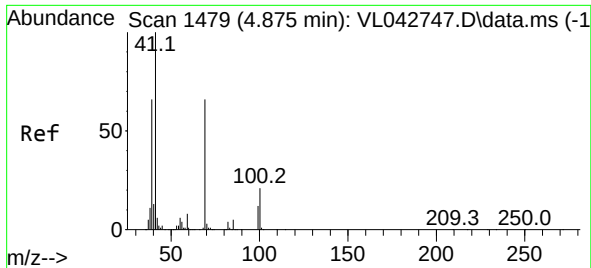
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#42
Bromodichloromethane
Concen: 2.028 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

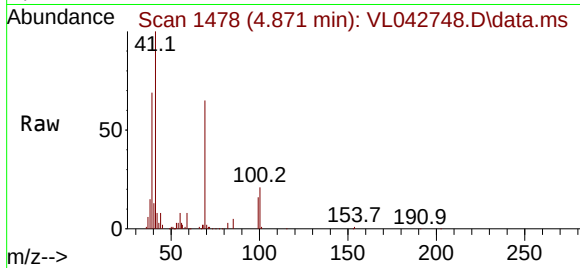
Tgt Ion: 83 Resp: 69093
Ion Ratio Lower Upper
83 100
85 67.9 50.2 75.4
127 6.8 5.4 8.2





#43
Methyl Methacrylate
Concen: 1.967 ppbv
RT: 4.871 min Scan# 1479
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

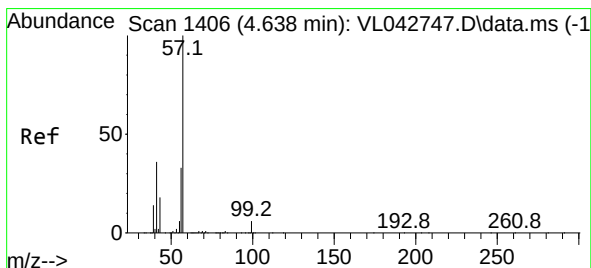
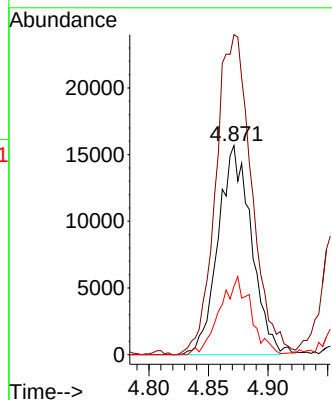
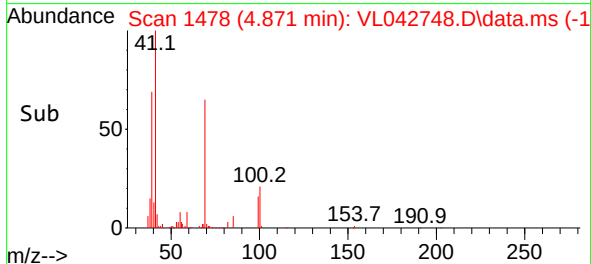
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



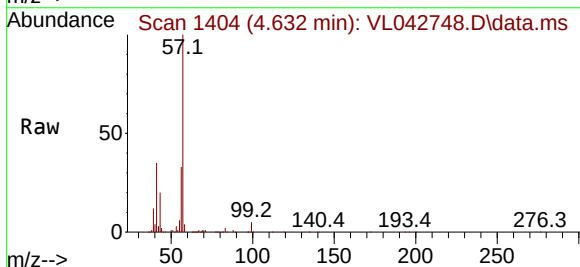
Tgt Ion: 69 Resp: 30330
Ion Ratio Lower Upper
69 100
41 164.3 125.7 188.5
100 35.5 28.6 42.8

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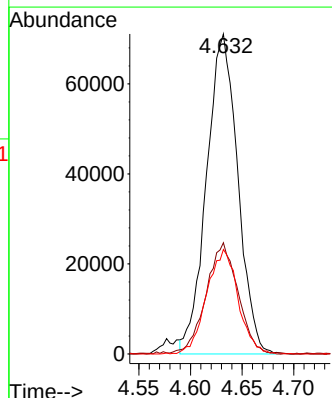
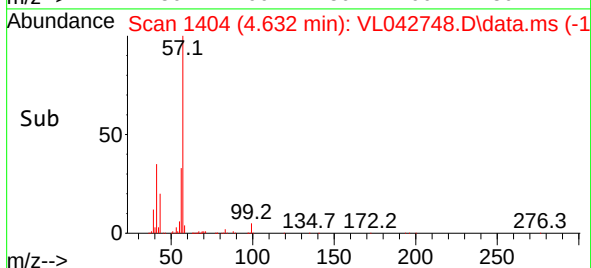
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

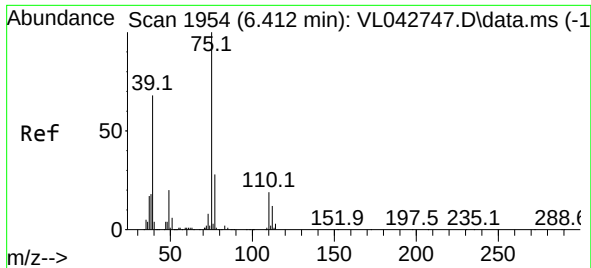


#44
2,2,4-Trimethylpentane
Concen: 2.115 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



Tgt Ion: 57 Resp: 149588
Ion Ratio Lower Upper
57 100
41 36.0 28.3 42.5
56 32.9 25.8 38.6





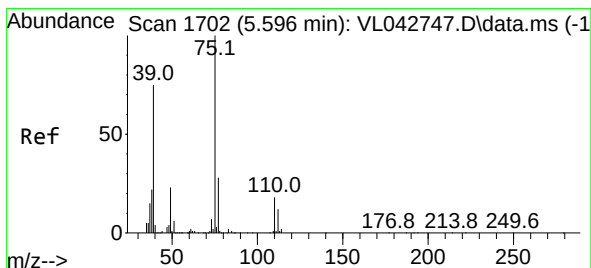
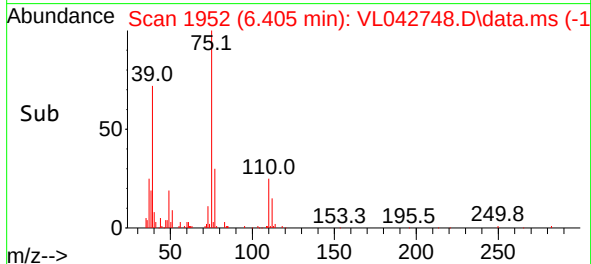
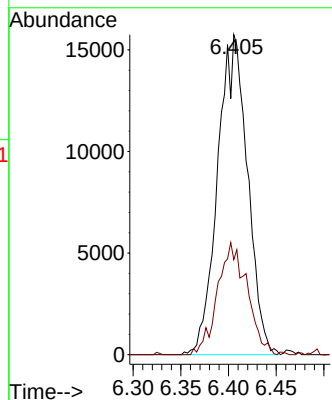
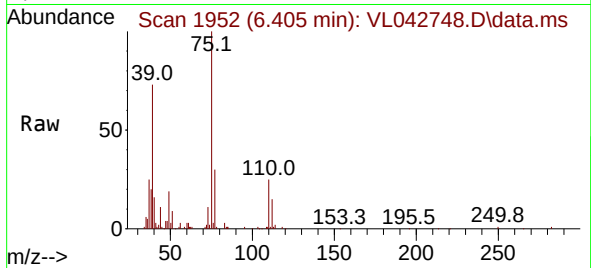
#45
t-1,3-Dichloropropene
Concen: 1.984 ppbv m
RT: 6.405 min Scan# 1954
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 75 Resp: 3433
Ion Ratio Lower Upper
75 100
77 29.7 22.4 33.6

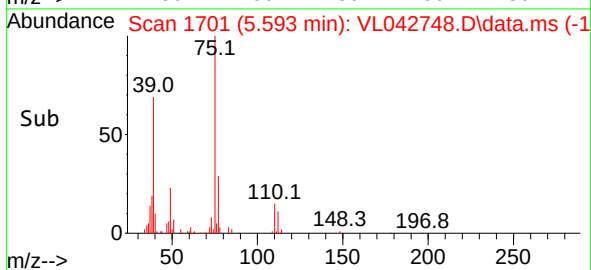
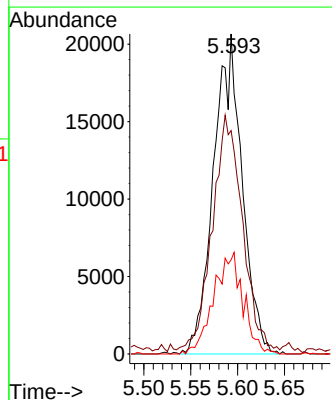
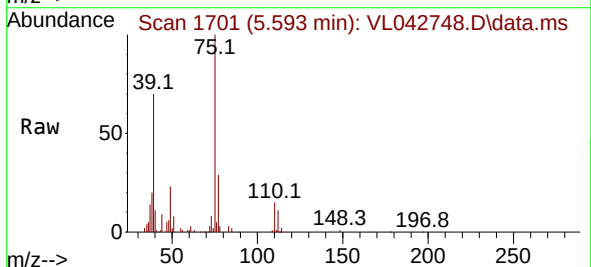
Manual Integrations
APPROVED

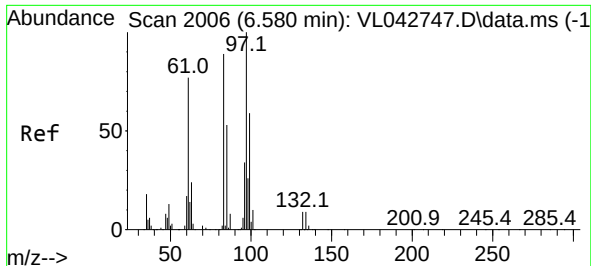
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#46
cis-1,3-Dichloropropene
Concen: 2.000 ppbv m
RT: 5.593 min Scan# 1701
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

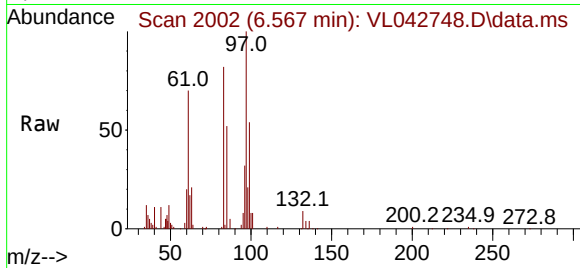
Tgt Ion: 75 Resp: 43845
Ion Ratio Lower Upper
75 100
39 69.8 60.2 90.2
77 29.4 22.6 34.0





#47
1,1,2-Trichloroethane
Concen: 2.063 ppbv m
RT: 6.567 min Scan# 2006
Delta R.T. -0.013 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

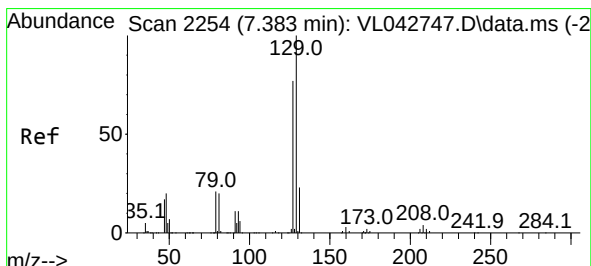
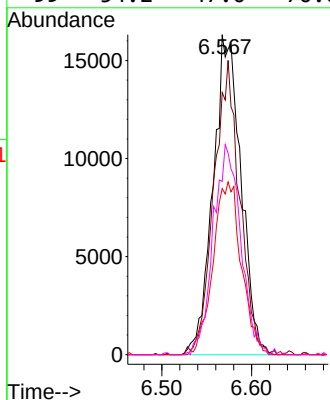
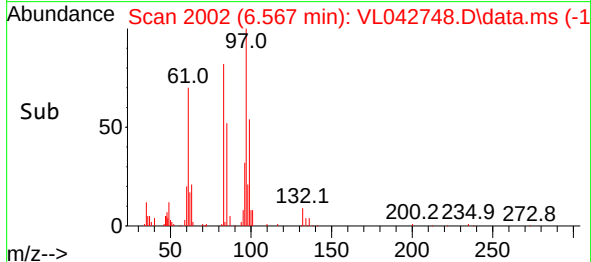
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 97 Resp: 3522
Ion Ratio Lower Upper
97 100
83 81.9 71.1 106.7
85 51.9 43.0 64.4
99 54.2 47.0 70.6

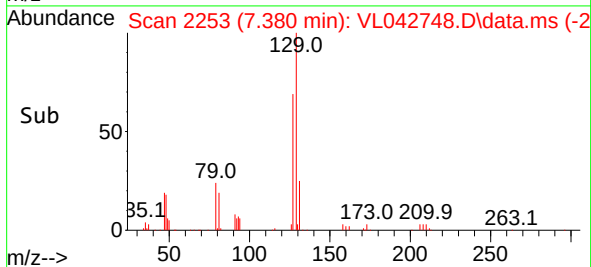
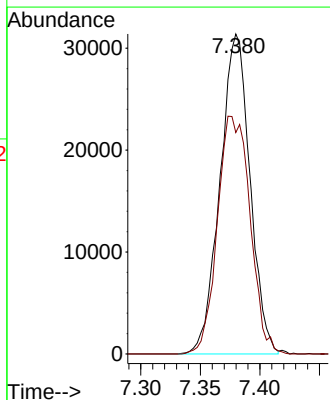
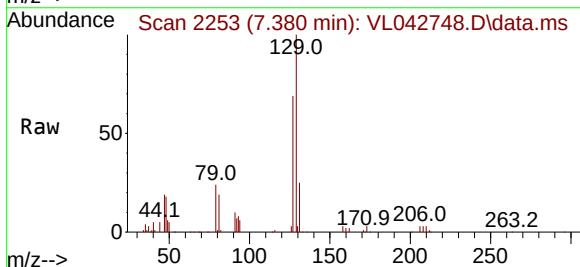
Manual Integrations
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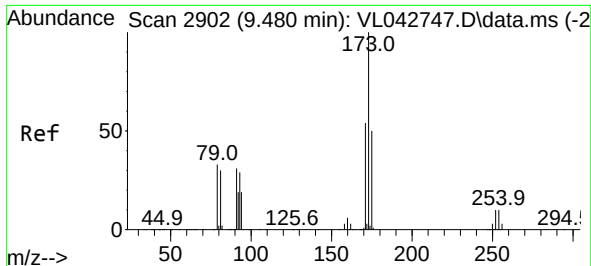
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#48
Dibromochloromethane
Concen: 2.026 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:129 Resp: 54906
Ion Ratio Lower Upper
129 100
127 80.8 38.7 116.1





#49

Bromoform

Concen: 2.003 ppbv

RT: 9.477 min Scan# 2901

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

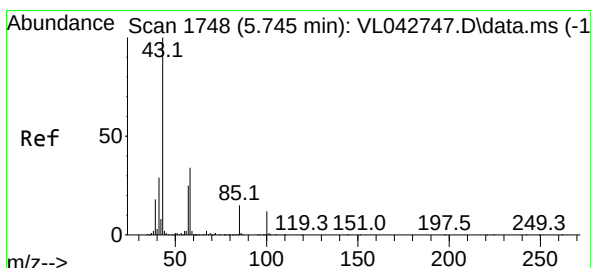
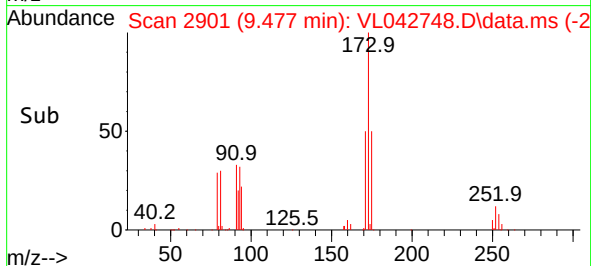
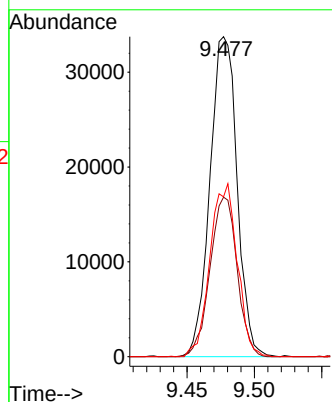
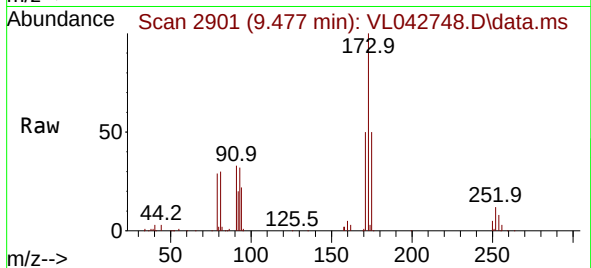
VSTDIC002

Tgt Ion:173 Resp: 47340
 Ion Ratio Lower Upper
 173 100
 175 49.7 38.4 57.6
 171 54.2 40.9 61.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#50

4-Methyl-2-Pentanone

Concen: 2.120 ppbv m

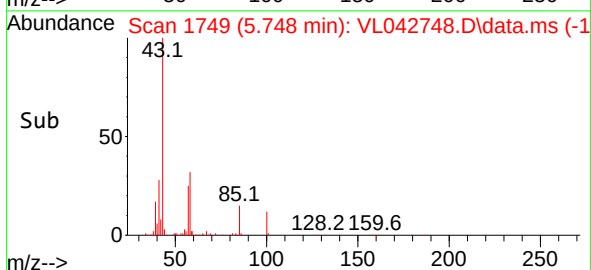
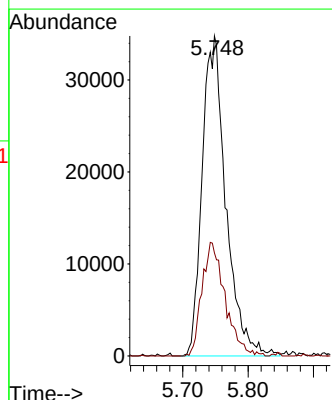
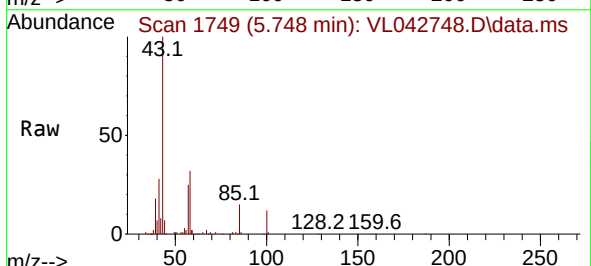
RT: 5.748 min Scan# 1749

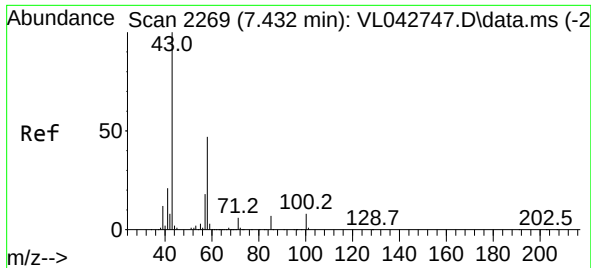
Delta R.T. 0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

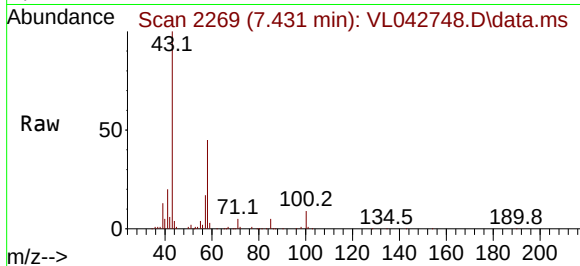
Tgt Ion: 43 Resp: 87566
 Ion Ratio Lower Upper
 43 100
 58 34.8 27.8 41.8





#51
2-Hexanone
Concen: 2.157 ppbv
RT: 7.431 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

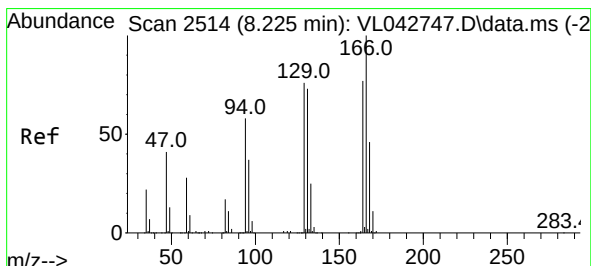
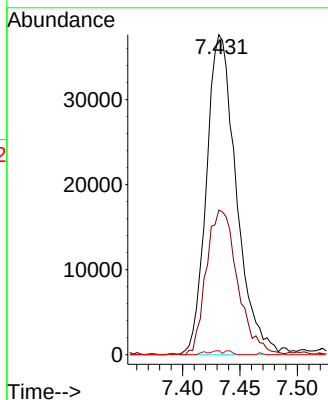
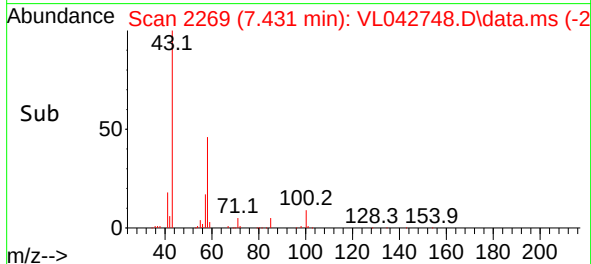
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



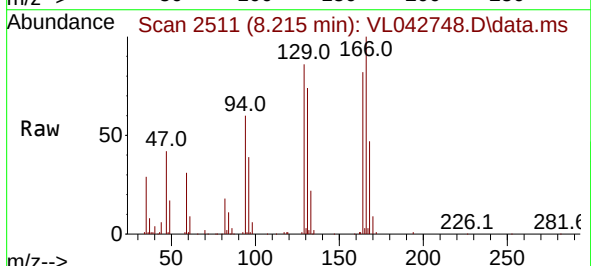
Tgt Ion: 43 Resp: 6809
Ion Ratio Lower Upper
43 100
58 48.2 38.0 57.0
98 1.0 0.2 0.4

Manual Integrations
APPROVED

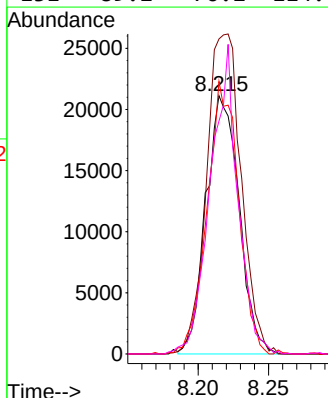
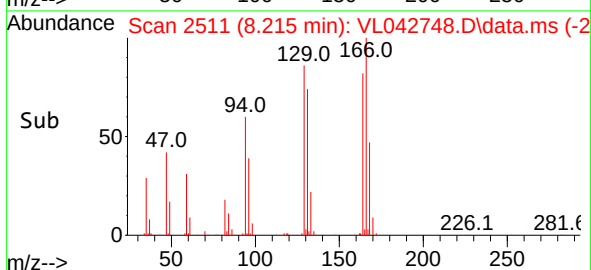
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

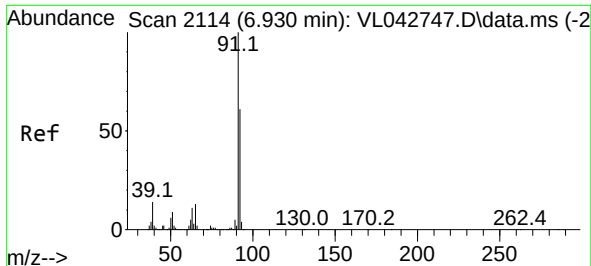


#52
Tetrachloroethene
Concen: 1.917 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. -0.010 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



Tgt Ion:164 Resp: 34568
Ion Ratio Lower Upper
164 100
166 121.7 104.0 156.0
129 103.9 79.2 118.8
131 89.2 76.2 114.4





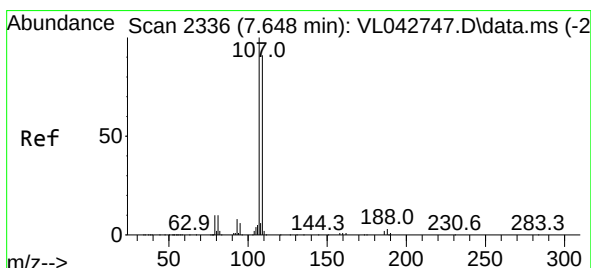
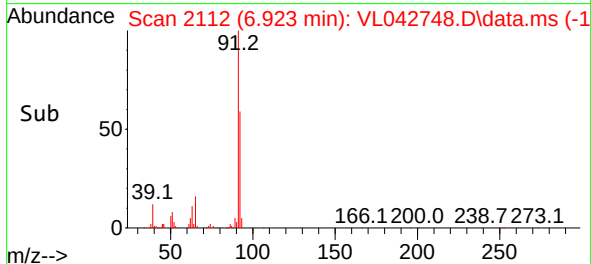
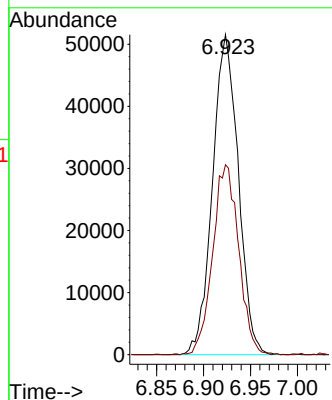
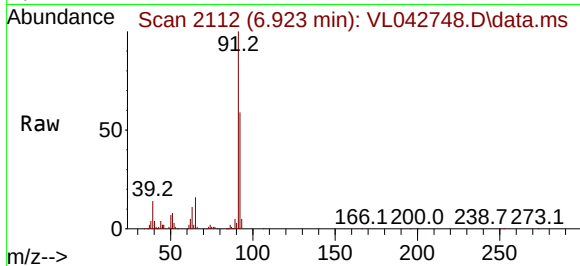
#53
Toluene
Concen: 2.111 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 98340
Ion Ratio Lower Upper
91 100
92 59.8 48.0 72.0

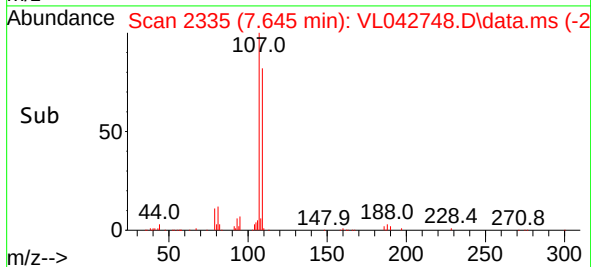
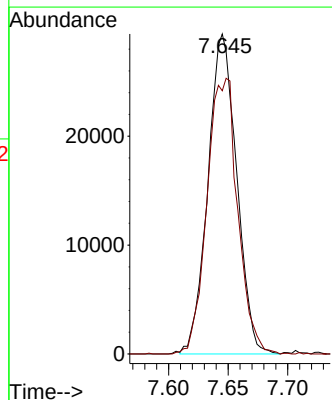
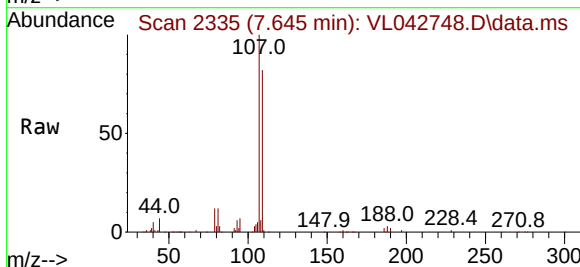
Manual Integrations
APPROVED

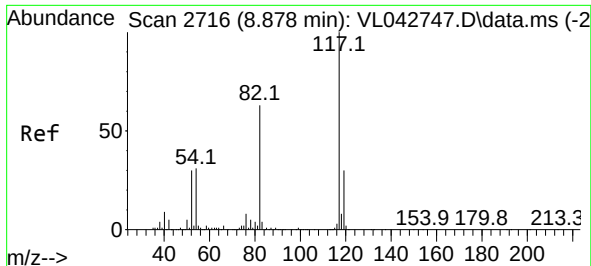
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#54
1,2-Dibromoethane
Concen: 2.042 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

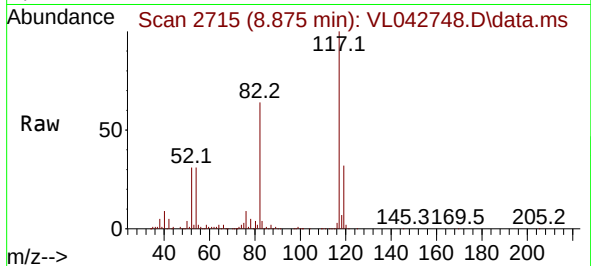
Tgt Ion:107 Resp: 49346
Ion Ratio Lower Upper
107 100
109 82.2 72.7 109.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2716
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

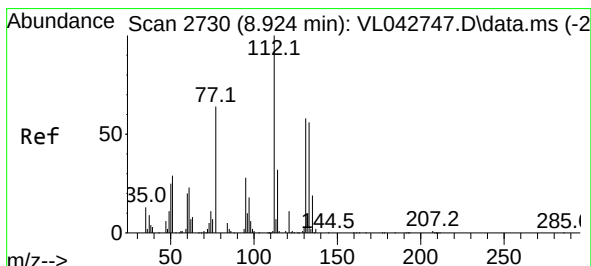
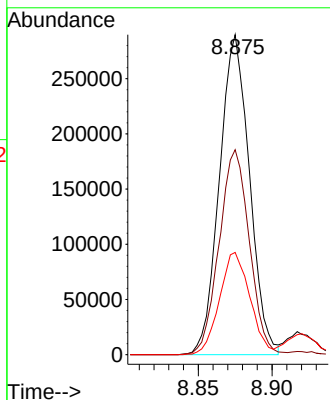
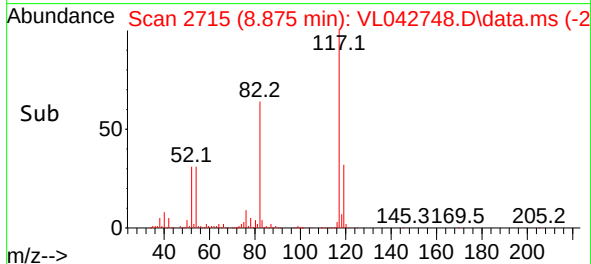
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion:117 Resp: 410740
Ion Ratio Lower Upper
117 100
82 65.2 53.3 79.9
119 33.2 25.8 38.6

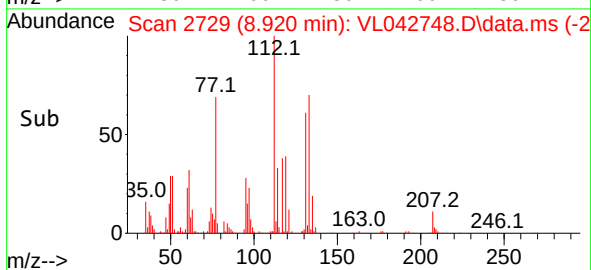
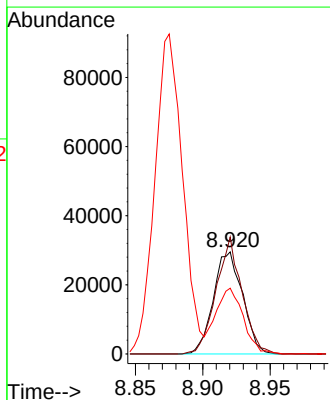
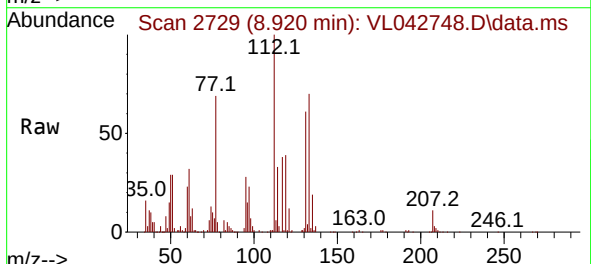
Manual Integrations
APPROVED

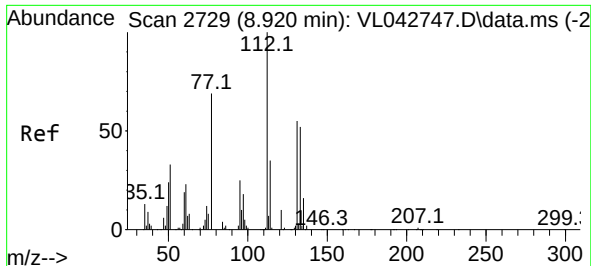
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 2.079 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

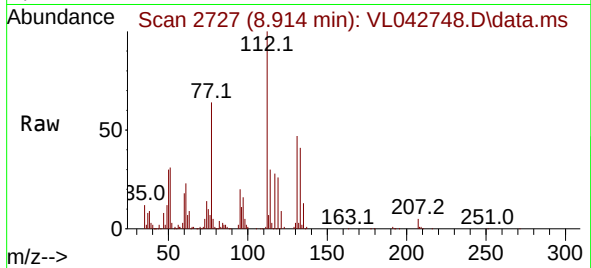
Tgt Ion:131 Resp: 44409
Ion Ratio Lower Upper
131 100
133 102.1 76.8 115.2
119 54.2 49.7 74.5





#57
Chlorobenzene
Concen: 2.101 ppbv
RT: 8.914 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

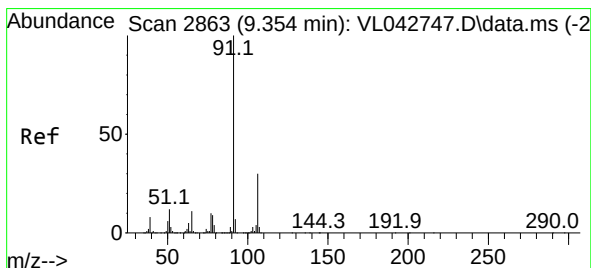
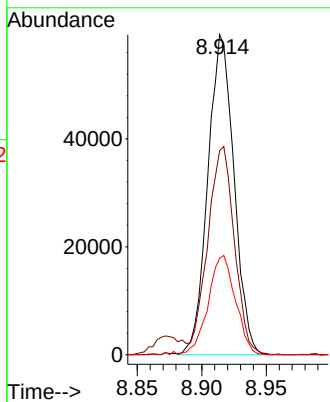
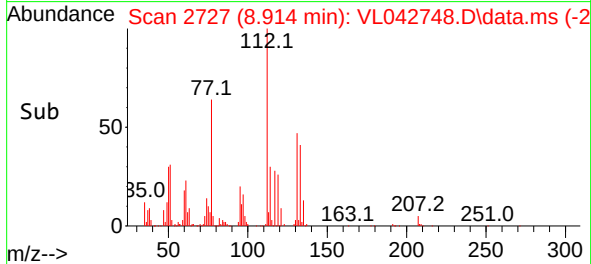
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion:112 Resp: 8350
Ion Ratio Lower Upper
112 100
77 63.5 56.4 84.6
114 30.2 31.2 38.2

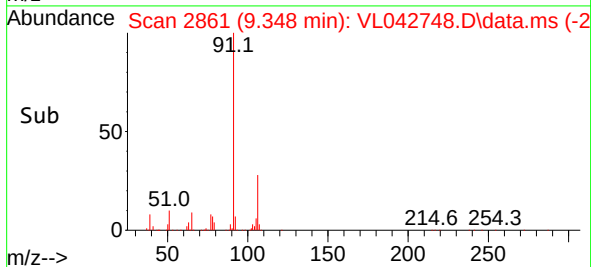
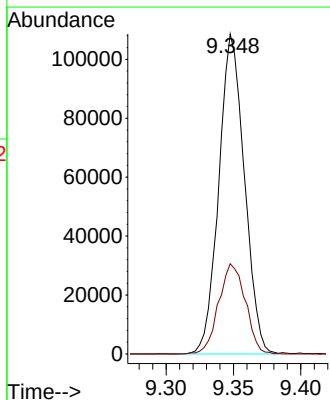
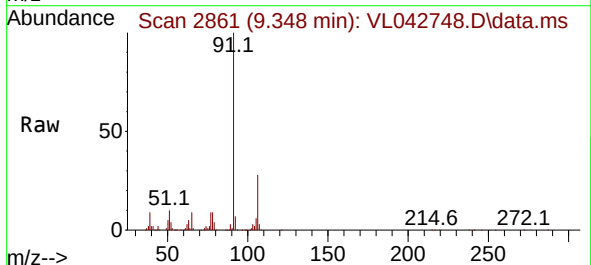
Manual Integrations
APPROVED

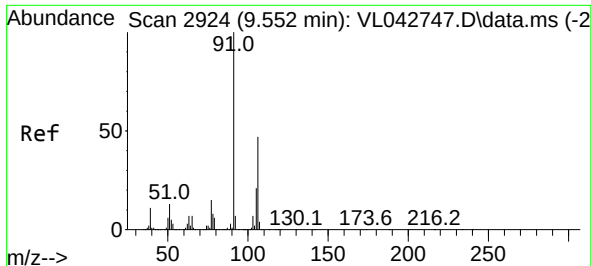
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#58
Ethyl Benzene
Concen: 2.208 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 143251
Ion Ratio Lower Upper
91 100
106 28.2 23.8 35.6





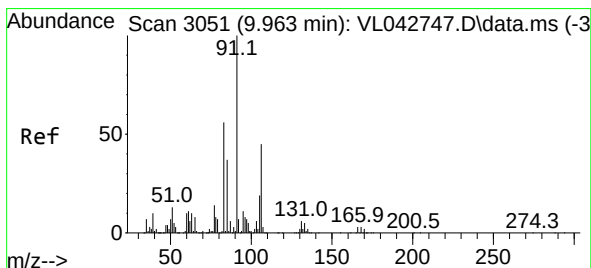
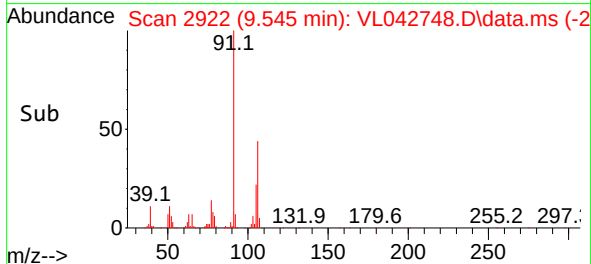
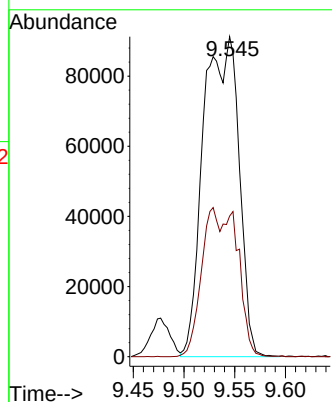
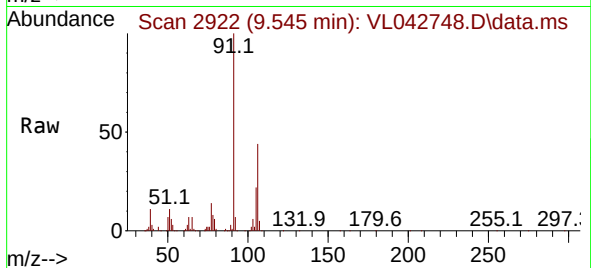
#59
m/p-Xylene
Concen: 4.290 ppbv m
RT: 9.545 min Scan# 2924
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 22246
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2

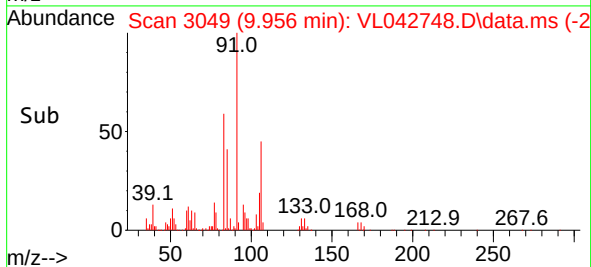
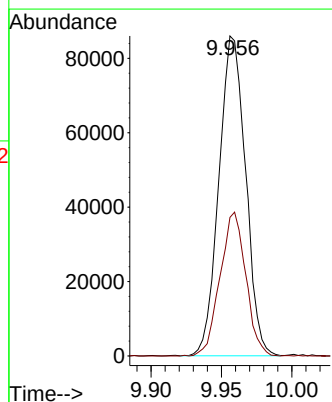
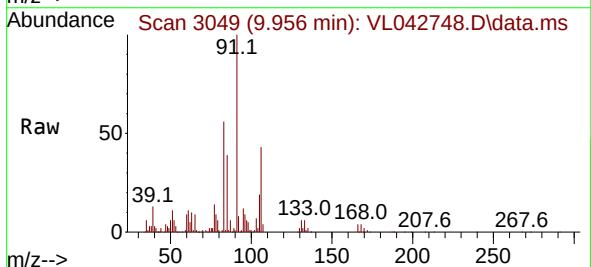
Manual Integrations
APPROVED

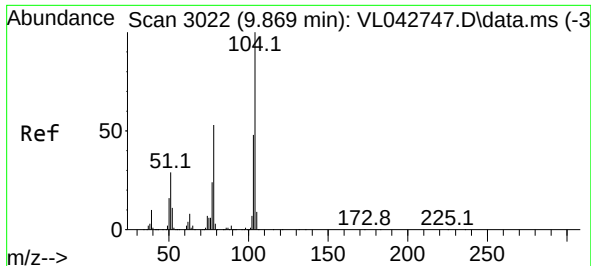
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#60
o-Xylene
Concen: 2.190 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 113462
Ion Ratio Lower Upper
91 100
106 43.4 22.0 66.0





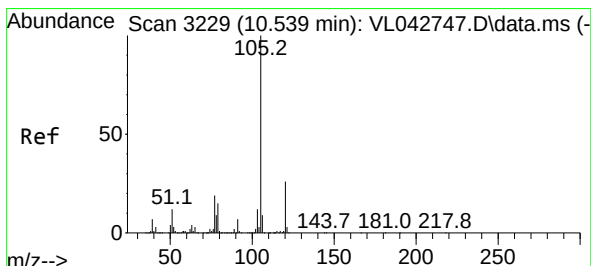
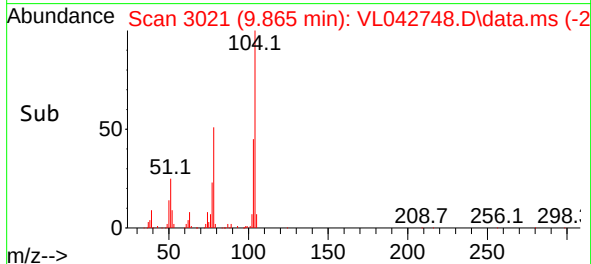
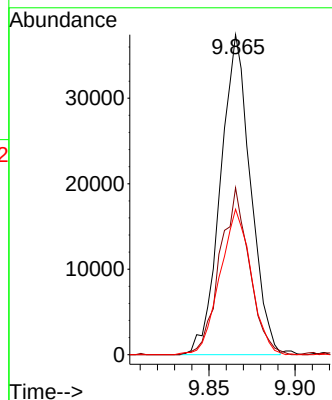
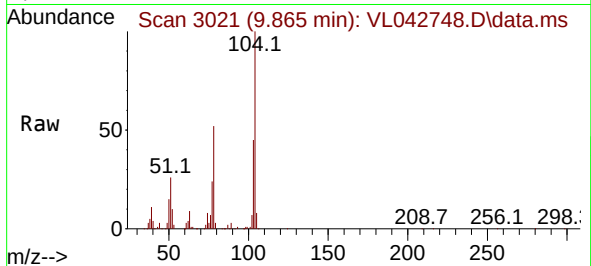
#61
Styrene
Concen: 2.081 ppbv
RT: 9.865 min Scan# 3022
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument : MSVOA_L
ClientSampleId : VSTDIC002

Tgt Ion:104 Resp: 4535
Ion Ratio Lower Upper
104 100
78 51.7 41.5 62.3
103 47.1 37.5 56.3

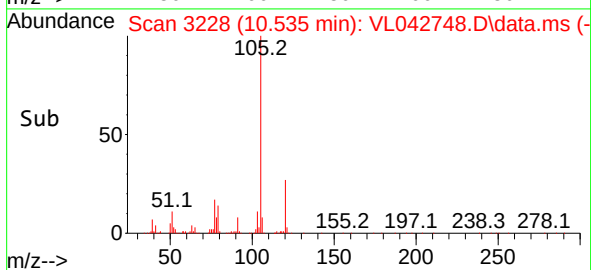
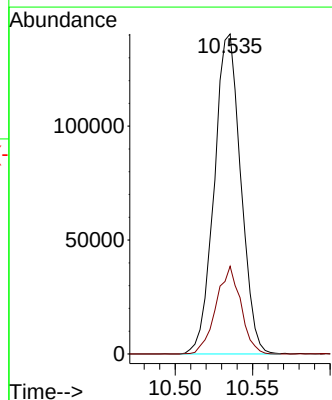
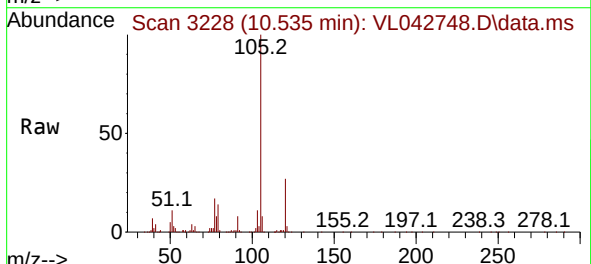
Manual Integrations
APPROVED

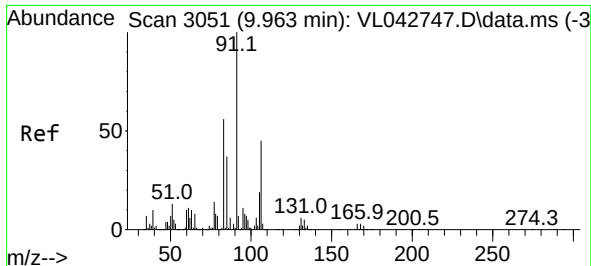
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#62
Isopropylbenzene
Concen: 2.187 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

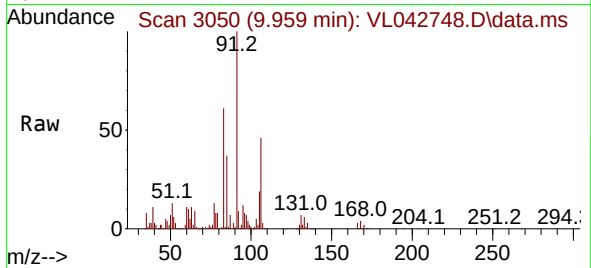
Tgt Ion:105 Resp: 167108
Ion Ratio Lower Upper
105 100
120 25.6 20.5 30.7





#63
1,1,2,2-Tetrachloroethane
Concen: 1.954 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

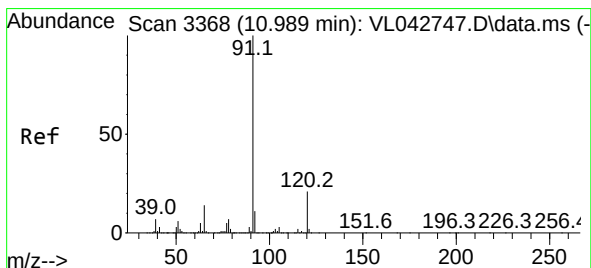
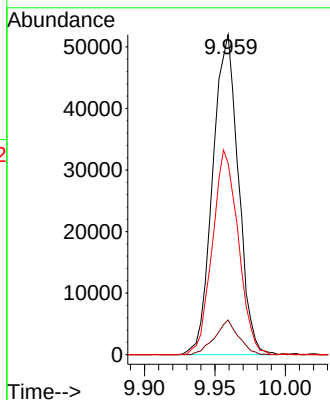
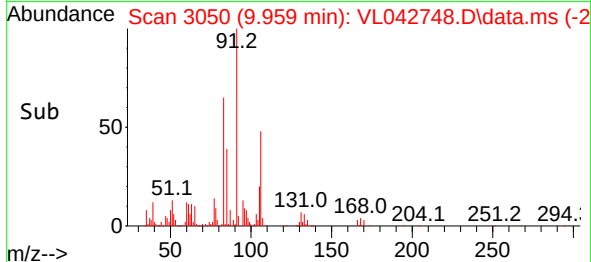
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



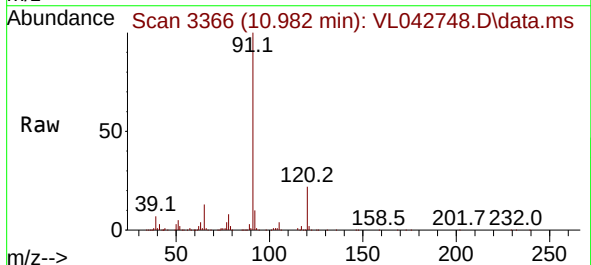
Tgt Ion: 83 Resp: 65928
Ion Ratio Lower Upper
83 100
131 10.1 5.0 15.0
85 64.7 32.6 97.7

Manual Integrations
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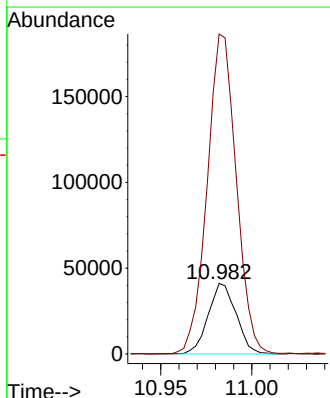
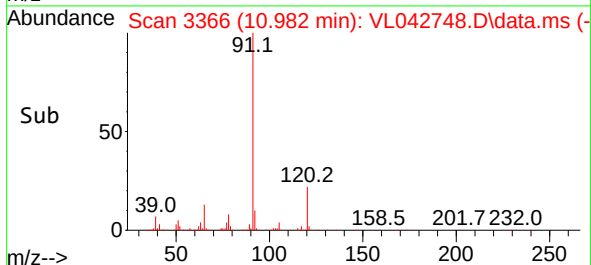
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

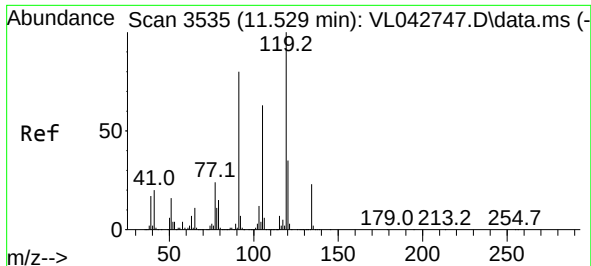


#64
n-propylbenzene
Concen: 2.198 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



Tgt Ion:120 Resp: 43789
Ion Ratio Lower Upper
120 100
91 472.1 372.7 559.1





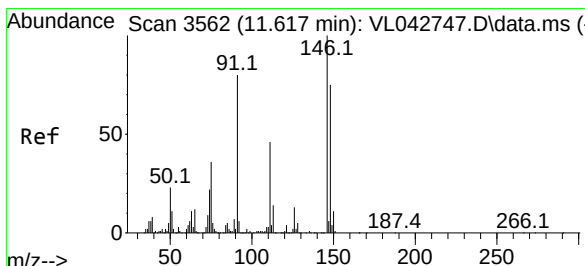
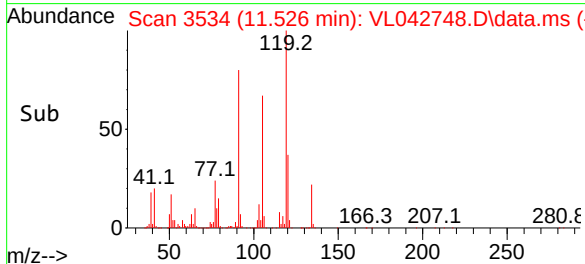
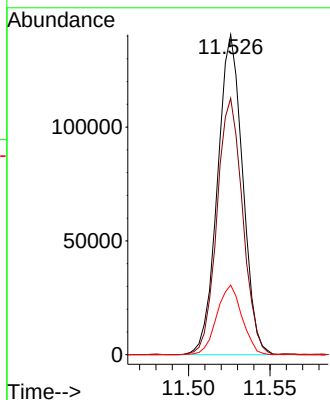
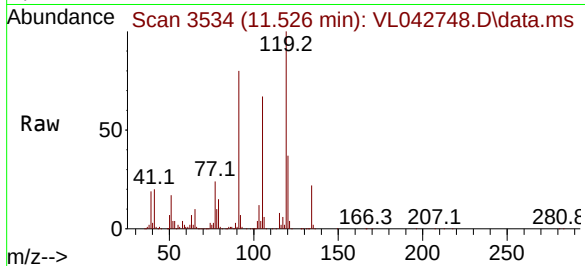
#65
tert-Butylbenzene
Concen: 2.226 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument : MSVOA_L
ClientSampleId : VSTDIC002

Tgt Ion: 119 Resp: 15108
Ion Ratio Lower Upper
119 100
91 81.8 64.0 96.0
134 21.7 17.3 25.9

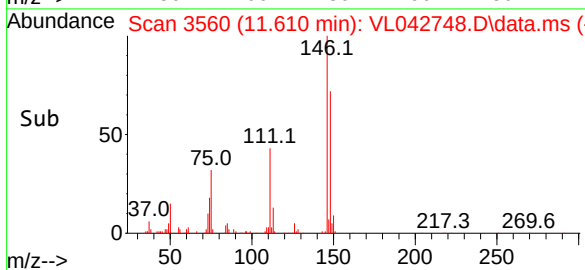
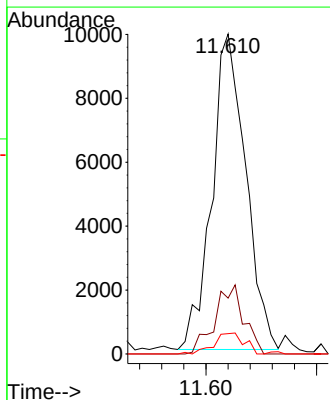
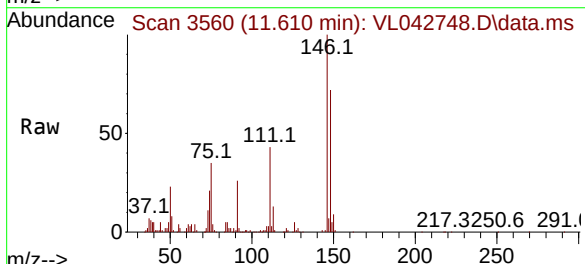
Manual Integrations
APPROVED

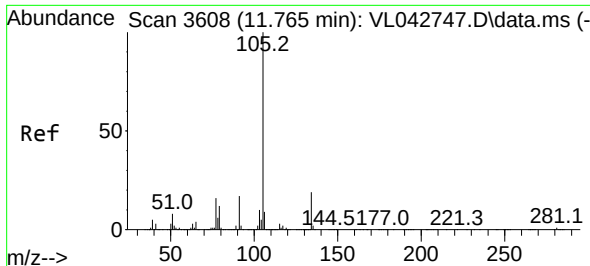
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#66
Benzyl Chloride
Concen: 1.882 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

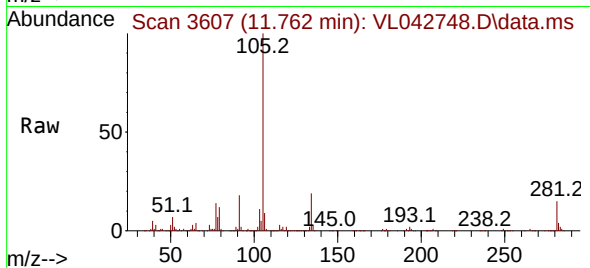
Tgt Ion: 91 Resp: 10485
Ion Ratio Lower Upper
91 100
126 18.8 14.4 21.6
128 6.2 5.2 7.8





#67
 sec-Butylbenzene
 Concen: 2.206 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

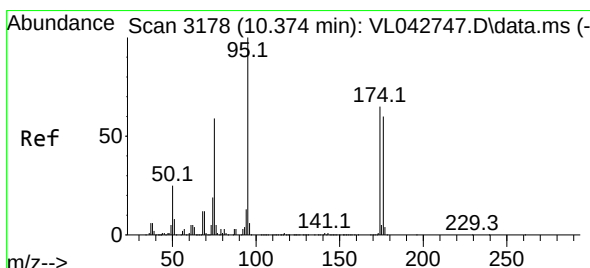
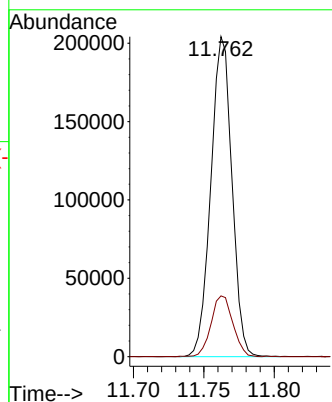
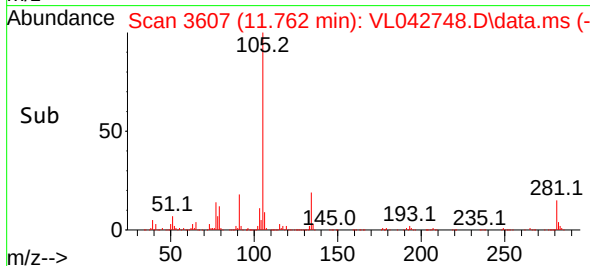
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



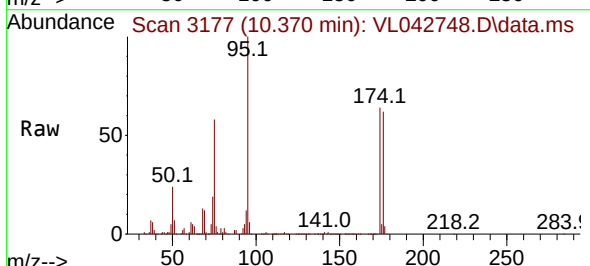
Tgt Ion:105 Resp: 212925
 Ion Ratio Lower Upper
 105 100
 134 19.8 15.5 23.3

Manual Integrations
 APPROVED

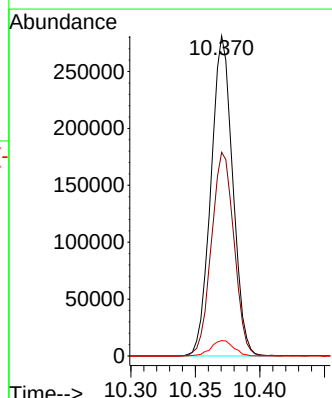
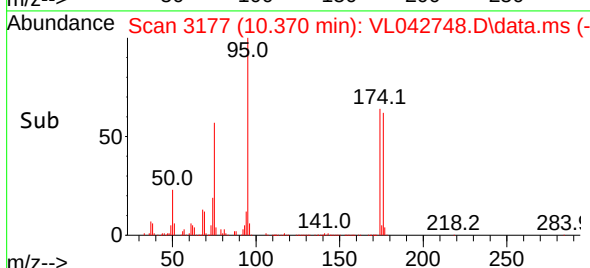
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

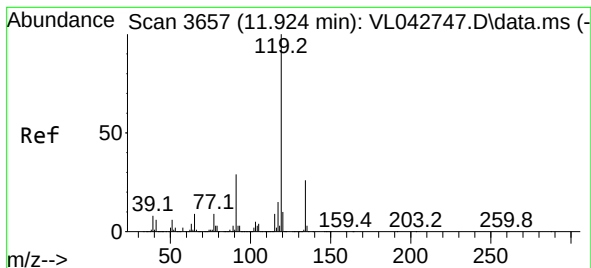


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.160 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34



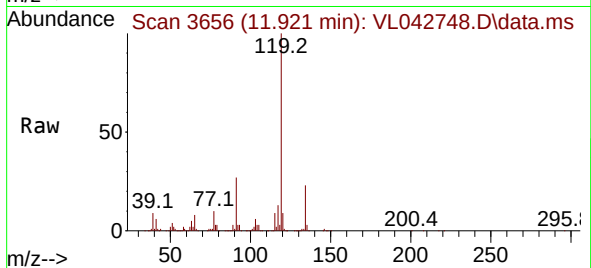
Tgt Ion: 95 Resp: 330476
 Ion Ratio Lower Upper
 95 100
 174 66.2 53.8 80.6
 175 5.0 4.0 6.0





#69
p-Isopropyltoluene
Concen: 2.230 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

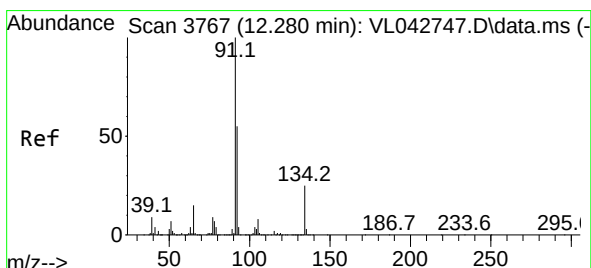
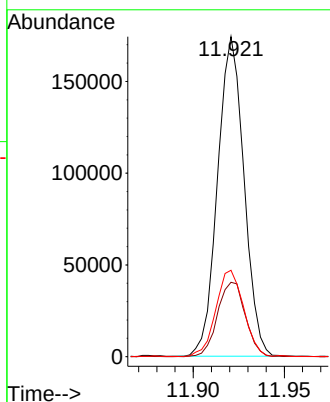
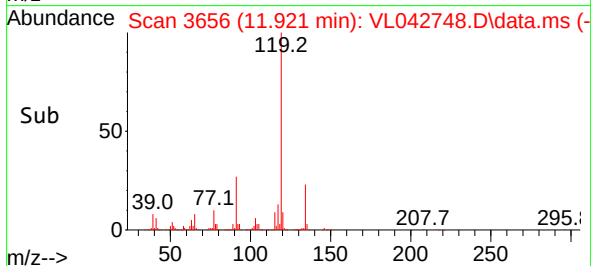
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



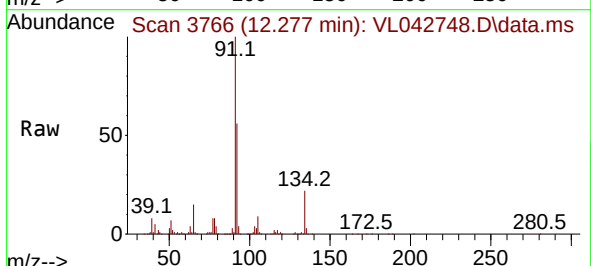
Tgt Ion: 119 Resp: 17555
Ion Ratio Lower Upper
119 100
134 24.7 20.6 31.0
91 29.0 23.2 34.8

Manual Integrations
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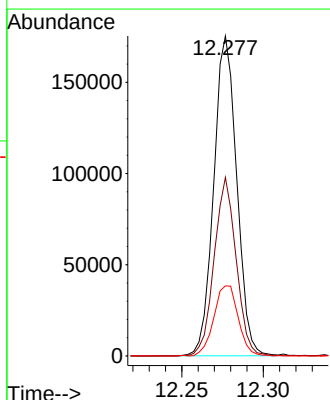
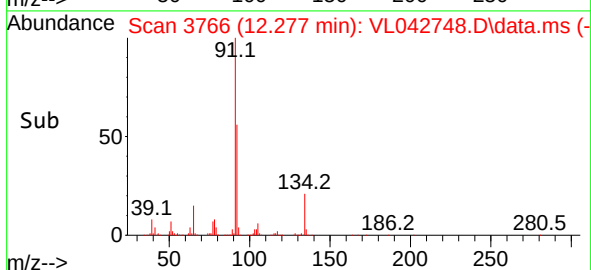
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

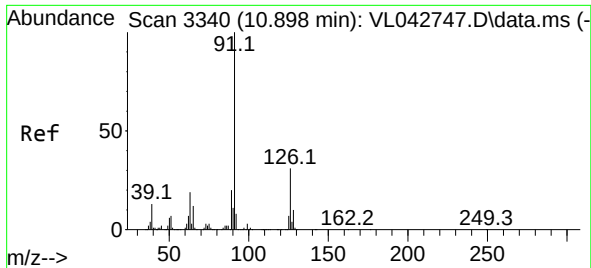


#70
n-Butylbenzene
Concen: 2.258 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



Tgt Ion: 91 Resp: 171675
Ion Ratio Lower Upper
91 100
92 53.7 43.4 65.2
134 23.4 19.6 29.4





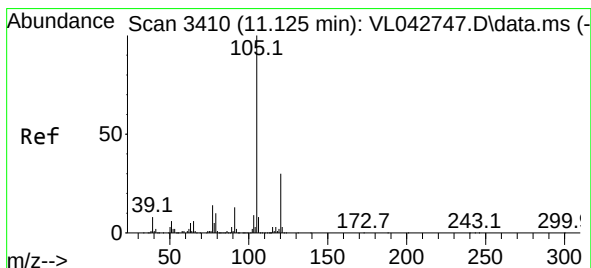
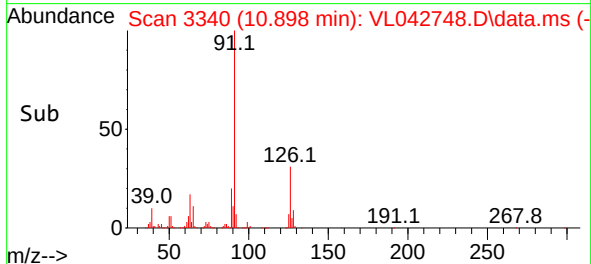
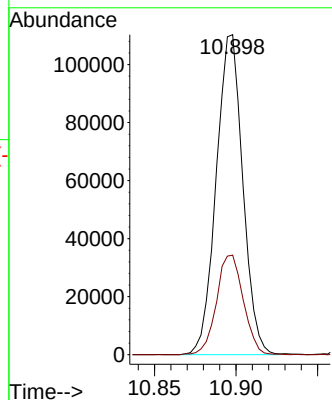
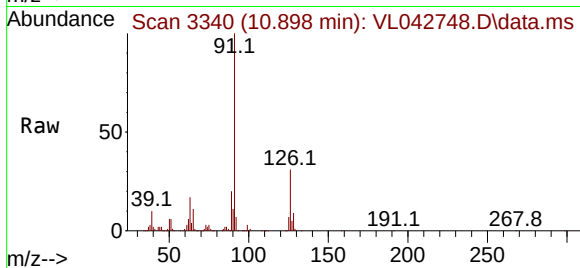
#71
2-Chlorotoluene
Concen: 2.134 ppbv
RT: 10.898 min Scan# 3109
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 125039
Ion Ratio Lower Upper
91 100
126 31.4 12.0 48.2

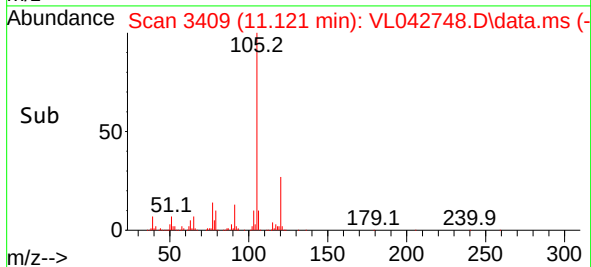
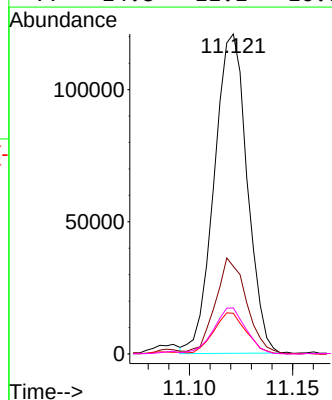
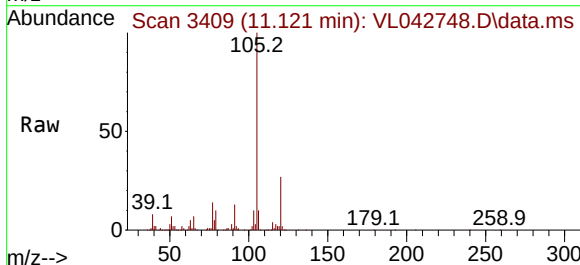
Manual Integrations
APPROVED

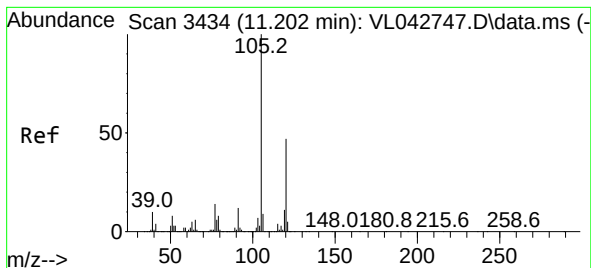
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#72
4-Ethyltoluene
Concen: 2.168 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:105 Resp: 134097
Ion Ratio Lower Upper
105 100
120 29.7 24.4 36.6
91 13.7 10.6 15.8
77 14.8 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 2.122 ppbv

RT: 11.199 min Scan# 3434

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion:105 Resp: 10805

Ion Ratio Lower Upper

105 100

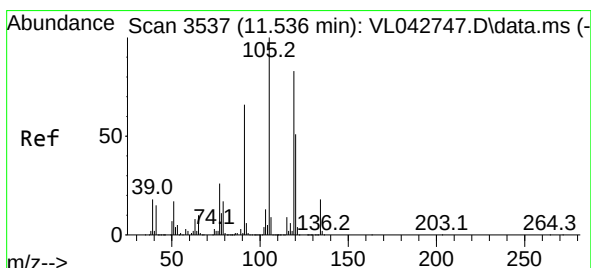
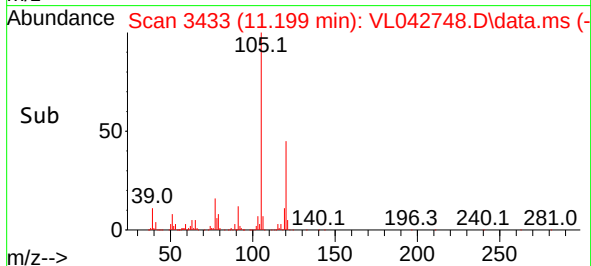
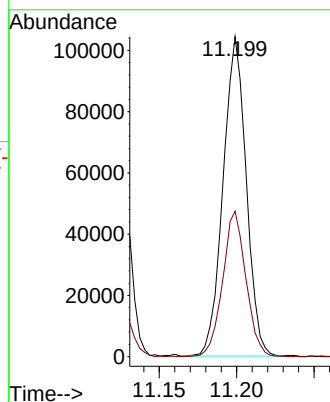
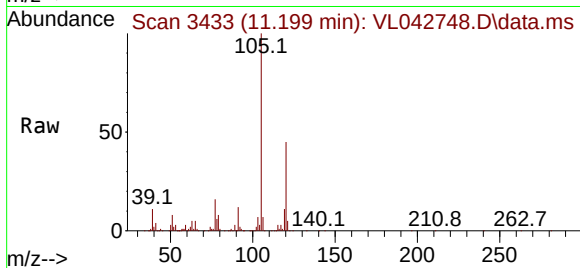
120 45.6 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#74

1,2,4-Trimethylbenzene

Concen: 2.201 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Tgt Ion:105 Resp: 122295

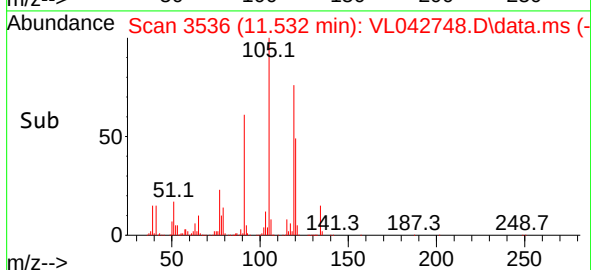
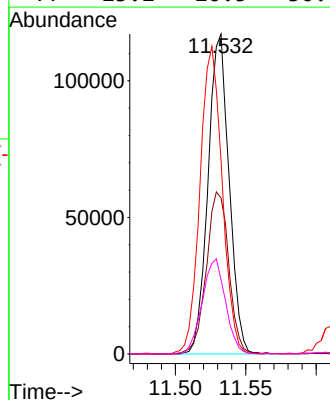
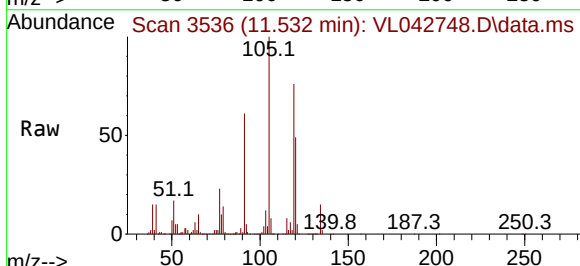
Ion Ratio Lower Upper

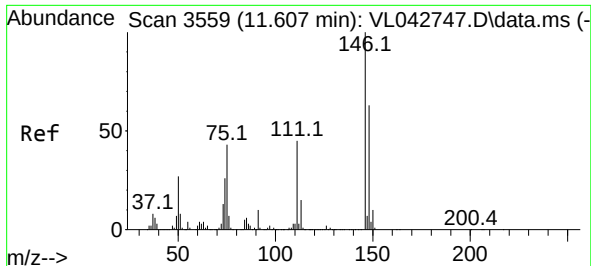
105 100

120 48.6 40.8 61.2

91 60.6 53.0 79.4

77 23.2 20.5 30.7





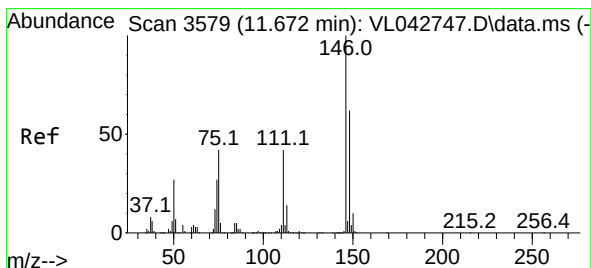
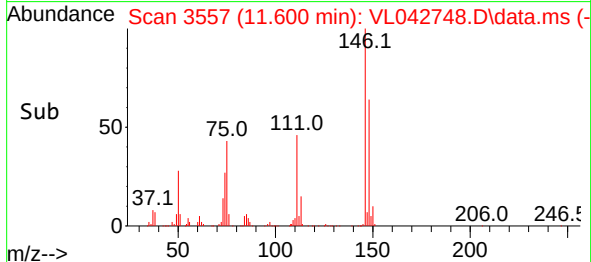
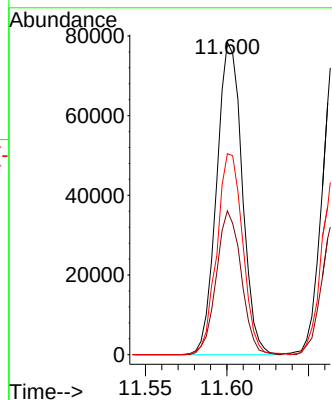
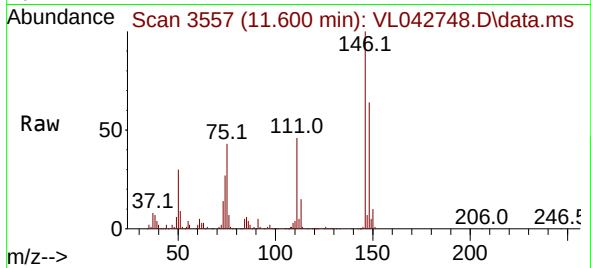
#75
1,3-Dichlorobenzene
Concen: 2.188 ppbv
RT: 11.600 min Scan# 3559
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 85254
Ion Ratio Lower Upper
146 100
111 45.0 22.7 68.0
148 65.2 31.9 95.5

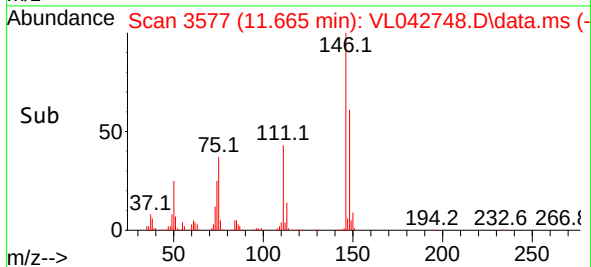
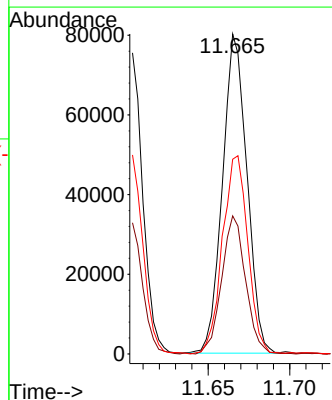
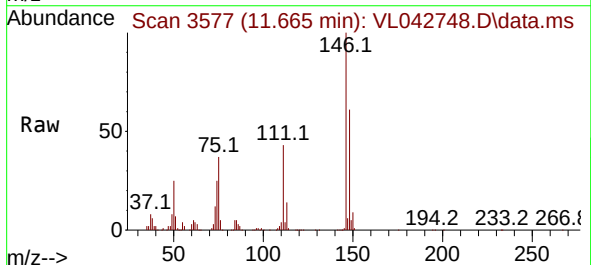
Manual Integrations
APPROVED

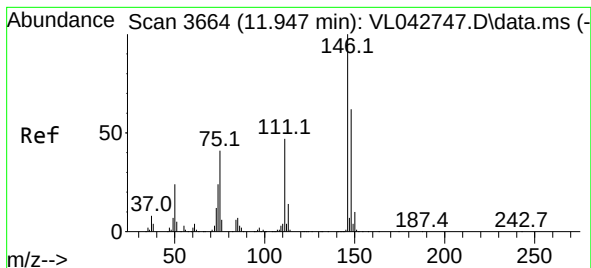
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#76
1,4-Dichlorobenzene
Concen: 2.189 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:146 Resp: 83440
Ion Ratio Lower Upper
146 100
111 42.6 21.4 64.2
148 64.9 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 2.150 ppbv

RT: 11.943 min Scan# 30

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

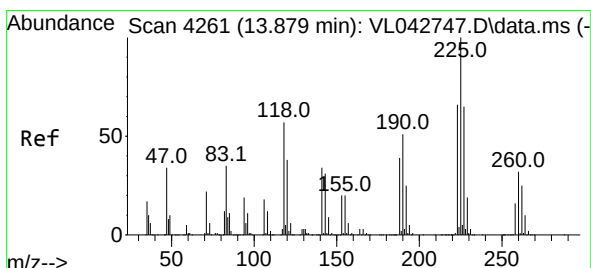
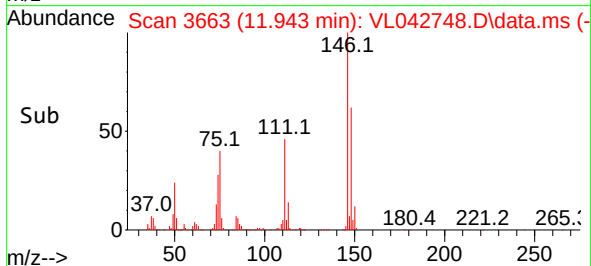
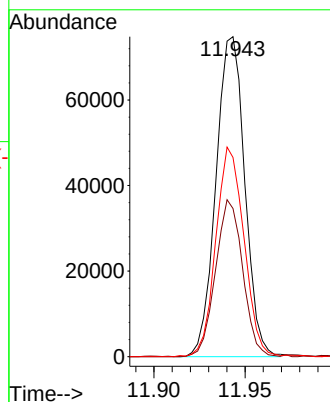
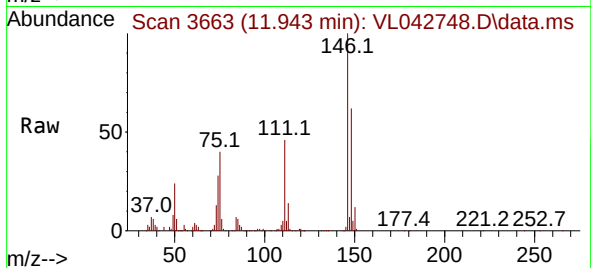
VSTDICC002

Tgt Ion:146	Resp:	8231
Ion Ratio	Lower	Upper
146	100	
111	46.6	23.7 71.1
148	64.3	32.6 97.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#78

Hexachloro-1,3-Butadiene

Concen: 2.259 ppbv

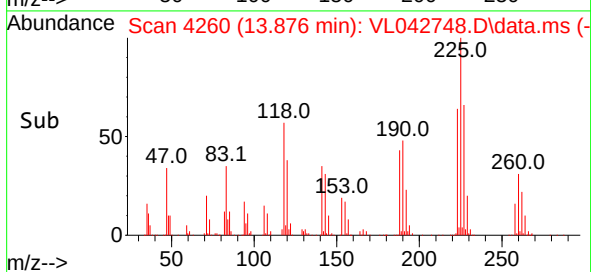
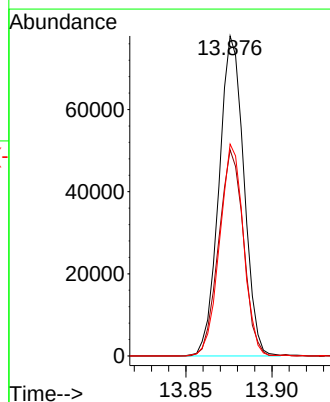
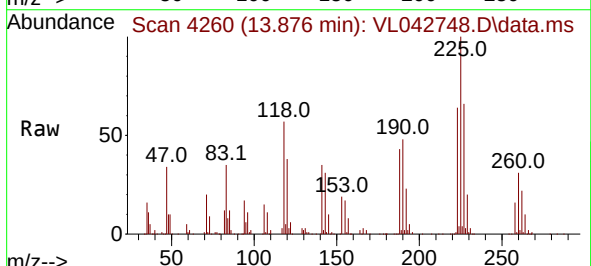
RT: 13.876 min Scan# 4260

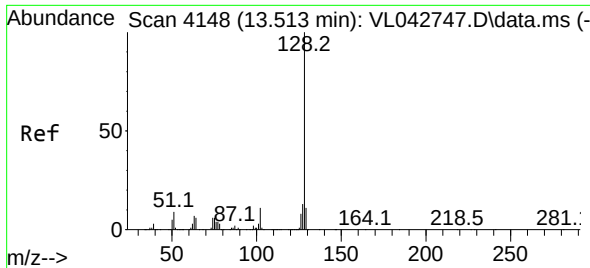
Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

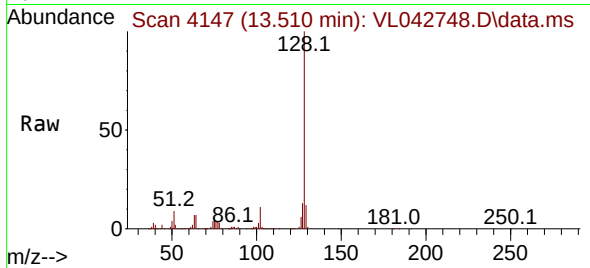
Tgt Ion:225	Resp:	78291
Ion Ratio	Lower	Upper
225	100	
223	64.2	50.7 76.1
227	63.3	50.5 75.7





#79
Naphthalene
Concen: 1.690 ppbv
RT: 13.510 min Scan# 4148
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

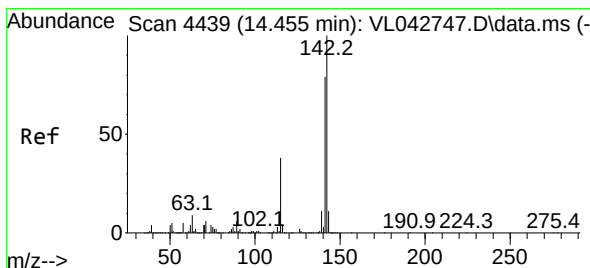
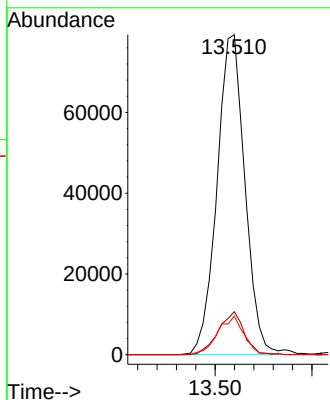
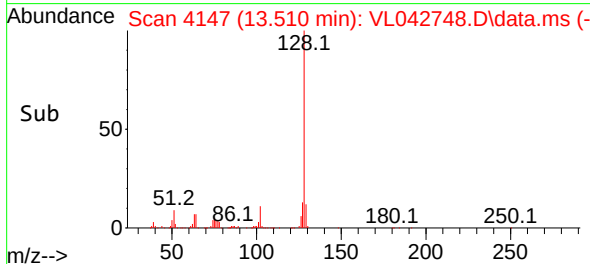
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



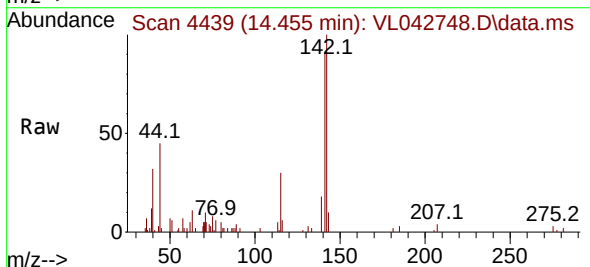
Tgt Ion:128 Resp: 7919
Ion Ratio Lower Upper
128 100
127 13.5 10.5 15.7
129 12.1 8.6 13.0

Manual Integrations
APPROVED

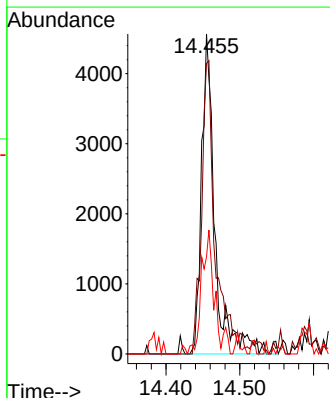
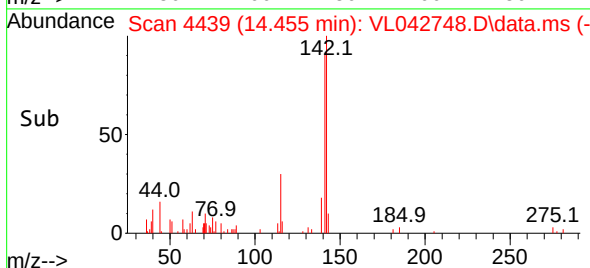
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

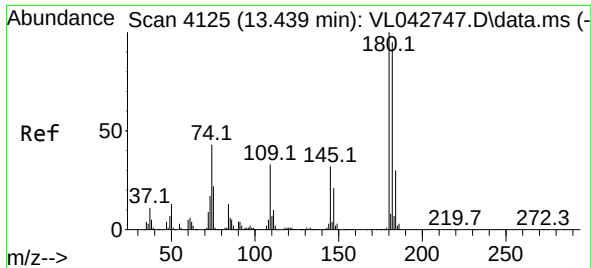


#80
Naphthalene,2-methyl-
Concen: 1.298 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34



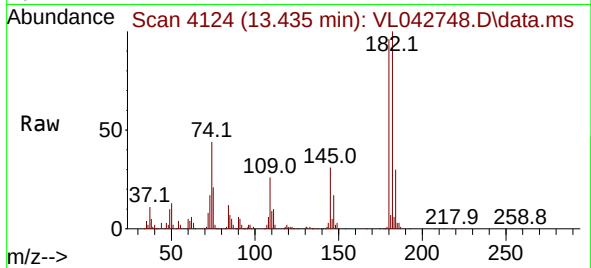
Tgt Ion:142 Resp: 5851
Ion Ratio Lower Upper
142 100
141 94.9 65.8 98.8
115 40.3 31.2 46.8





#81
 1,2,4-Trichlorobenzene
 Concen: 1.888 ppbv
 RT: 13.435 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

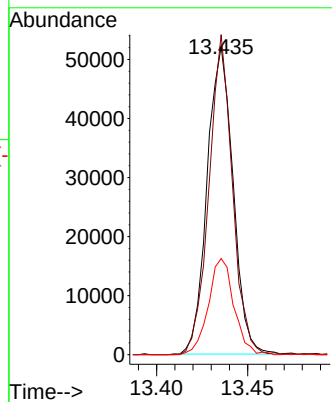
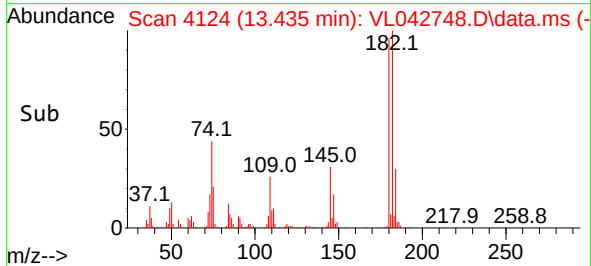
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:180 Resp: 5151
 Ion Ratio Lower Upper
 180 100
 182 94.3 76.2 114.2
 184 30.9 24.8 37.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042749.D
 Acq On : 23 Jul 2025 10:08
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:57:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	156293	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	459770	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	410018	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 327673 10.091 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	20935	1.013	ppbv	93
3) Chlorodifluoromethane	1.473	51	27459	1.020	ppbv	99
4) Chloromethane	1.531	50	9047	1.082	ppbv	96
5) Vinyl Chloride	1.580	62	7432	0.900	ppbv	96
6) Bromomethane	1.667	94	3743	1.172	ppbv #	71
7) Chloroethane	1.703	64	3061	0.959	ppbv	99
8) Dichlorotetrafluoroethane	1.551	85	17668	1.040	ppbv	98
9) Propene	1.483	41	10346	1.057	ppbv	95
10) Heptane	4.975	43	26137m	0.993	ppbv	
11) Trichlorofluoromethane	1.874	101	22428	1.053	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	16608	1.026	ppbv	97
13) Ethanol	1.719	45	1620m	1.222	ppbv	
14) Bromoethene	1.780	108	5928	1.034	ppbv #	92
15) Acetone	1.832	43	23119	1.071	ppbv	94
16) 1,3-Butadiene	1.606	39	9416	1.023	ppbv	98
17) tert-Butyl alcohol	2.039	59	19926	1.024	ppbv #	93
18) 1,1-Dichloroethene	2.030	96	8276	1.132	ppbv	95
19) Isopropyl Alcohol	1.884	45	11942	1.041	ppbv #	42
20) Methylene Chloride	2.059	84	7153	1.052	ppbv	90
21) Allyl Chloride	2.091	41	13382	1.006	ppbv	92
22) trans-1,2-Dichloroethene	2.337	96	7909	1.007	ppbv	89
23) Vinyl Acetate	2.457	43	23472	0.897	ppbv #	91
24) 1,1-Dichloroethane	2.405	63	17459	1.081	ppbv	99
25) Ethyl Acetate	2.829	43	48790	1.021	ppbv	97
26) Hexane	2.823	57	22279	1.063	ppbv	98
27) Carbon Disulfide	2.146	76	18488	1.031	ppbv #	1
28) Methyl tert-Butyl Ether	2.434	73	9587	0.968	ppbv	90
29) Chloroform	2.845	83	32880	1.015	ppbv	95
30) Cyclohexane	3.852	84	17824	1.003	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	21979	1.021	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	32003	0.949	ppbv	97
34) 2-Butanone	2.554	43	32783	1.007	ppbv	98
35) Carbon Tetrachloride	3.758	117	32610	0.954	ppbv	92
36) Benzene	3.651	78	44638	1.024	ppbv	98
37) 1,2-Dichloroethane	3.211	62	26909	1.025	ppbv #	96
38) Trichloroethene	4.538	130	21122	1.005	ppbv	93
39) 1,2-Dichloropropane	4.305	63	16622	1.033	ppbv	94
40) 1,4-Dioxane	4.587	88	7811m	1.030	ppbv	
41) Tetrahydrofuran	3.056	42	16097	0.984	ppbv	97
42) Bromodichloromethane	4.480	83	34995m	1.023	ppbv	
43) Methyl Methacrylate	4.868	69	14886m	0.961	ppbv	
44) 2,2,4-Trimethylpentane	4.629	57	72865	1.026	ppbv	99
45) t-1,3-Dichloropropene	6.399	75	15641m	0.900	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042749.D
 Acq On : 23 Jul 2025 10:08
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:57:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

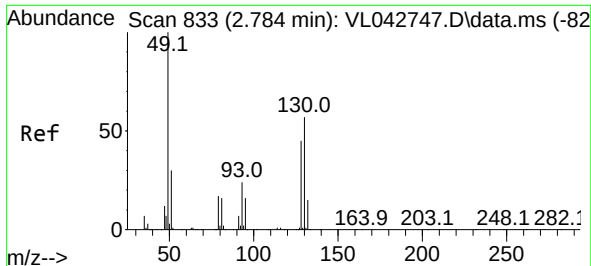
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

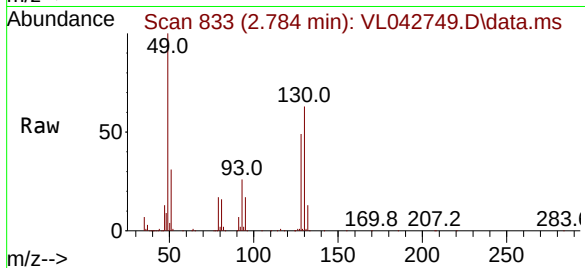
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	21088m	0.958	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	17646	1.029	ppbv #	82
48) Dibromochloromethane	7.380	129	26259	0.965	ppbv	99
49) Bromoform	9.474	173	23083	0.973	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	41715m	1.006	ppbv	
51) 2-Hexanone	7.435	43	29761	0.939	ppbv #	100
52) Tetrachloroethene	8.215	164	18131	1.001	ppbv	96
53) Toluene	6.927	91	45645	0.976	ppbv	98
54) 1,2-Dibromoethane	7.642	107	24427	1.007	ppbv	85
56) 1,1,1,2-Tetrachloroethane	8.920	131	21319	1.000	ppbv	94
57) Chlorobenzene	8.911	112	41788	1.053	ppbv #	85
58) Ethyl Benzene	9.351	91	63467	0.980	ppbv	98
59) m/p-Xylene	9.545	91	104545m	2.020	ppbv	
60) o-Xylene	9.959	91	52499	1.015	ppbv	99
61) Styrene	9.865	104	20313	0.934	ppbv	97
62) Isopropylbenzene	10.532	105	77278	1.013	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.956	83	32591	0.967	ppbv	100
64) n-propylbenzene	10.985	120	20073	1.009	ppbv	95
65) tert-Butylbenzene	11.526	119	68428	1.010	ppbv	95
66) Benzyl Chloride	11.610	91	4700	0.845	ppbv	96
67) sec-Butylbenzene	11.762	105	101458	1.053	ppbv	99
69) p-Isopropyltoluene	11.921	119	78186	0.995	ppbv	98
70) n-Butylbenzene	12.277	91	74257	0.978	ppbv	98
71) 2-Chlorotoluene	10.895	91	59193	1.012	ppbv	100
72) 4-Ethyltoluene	11.121	105	61199	0.991	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	48901	0.962	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	55153	0.994	ppbv	97
75) 1,3-Dichlorobenzene	11.600	146	39753	1.022	ppbv	97
76) 1,4-Dichlorobenzene	11.665	146	38018	0.999	ppbv	98
77) 1,2-Dichlorobenzene	11.943	146	40835	1.068	ppbv	98
78) Hexachloro-1,3-Butadiene	13.876	225	37228	1.076	ppbv	98
79) Naphthalene	13.510	128	29792	0.907	ppbv	97
80) Naphthalene,2-methyl-	14.449	142	1950	1.184	ppbv #	78
81) 1,2,4-Trichlorobenzene	13.435	180	21929	1.053	ppbv	98

(#) = 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: VL042749.D
Acq: 23 Jul 2025 10:08

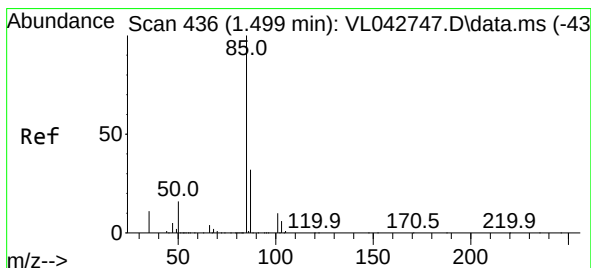
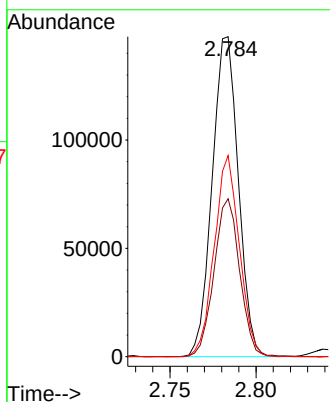
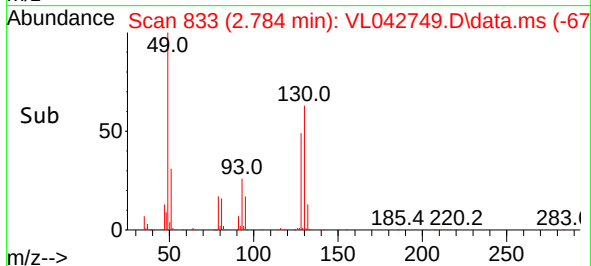
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 49 Resp: 156293
Ion Ratio Lower Upper
49 100
128 48.2 23.6 71.0
130 60.4 30.3 90.8

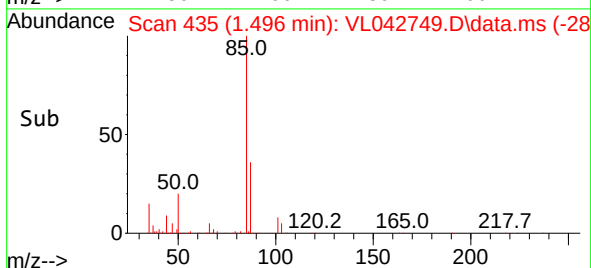
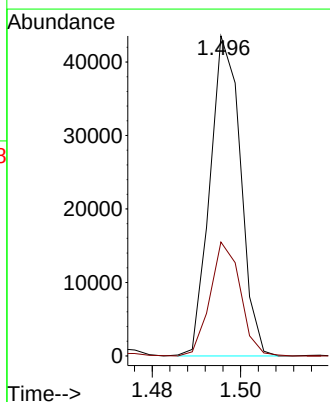
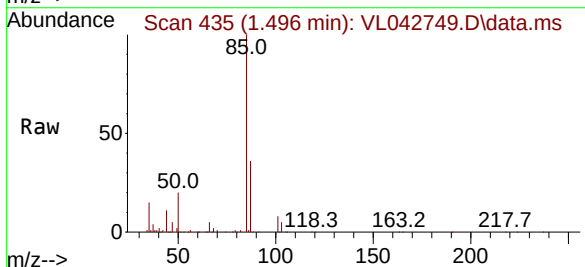
Manual Integrations
APPROVED

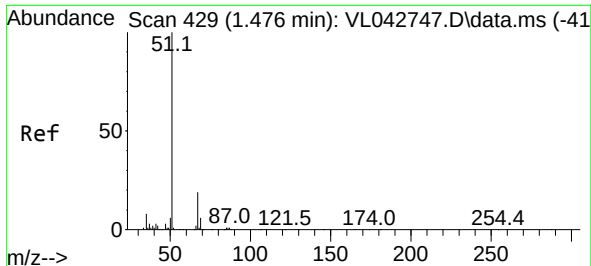
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#2
Dichlorodifluoromethane
Concen: 1.013 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

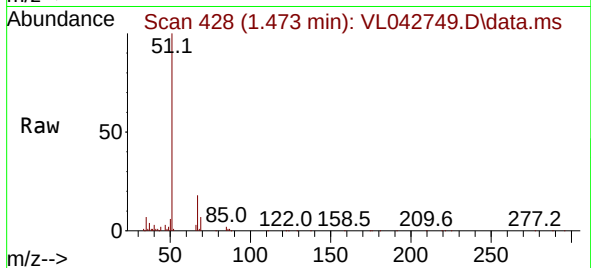
Tgt Ion: 85 Resp: 20935
Ion Ratio Lower Upper
85 100
87 35.6 25.4 38.2





#3
Chlorodifluoromethane
Concen: 1.020 ppbv
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

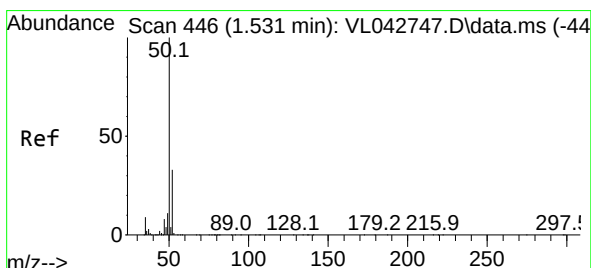
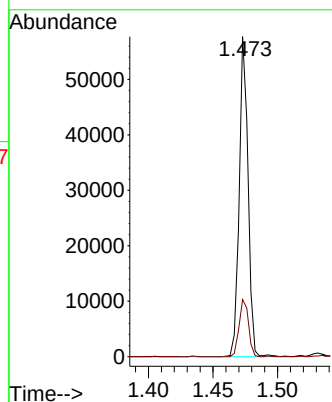
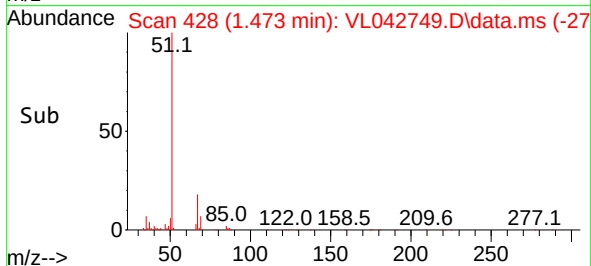
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



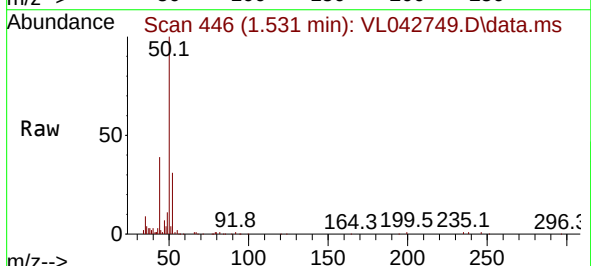
Tgt Ion: 51 Resp: 27459
Ion Ratio Lower Upper
51 100
67 19.3 15.0 22.6

Manual Integrations
APPROVED

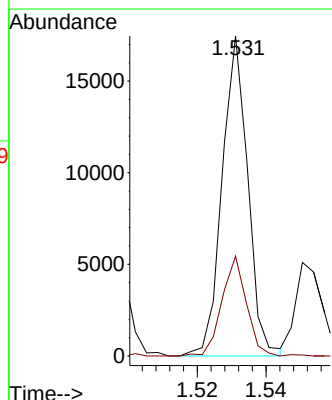
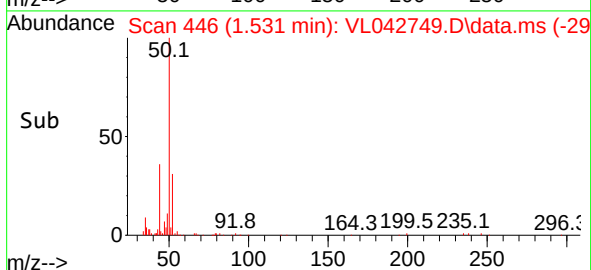
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

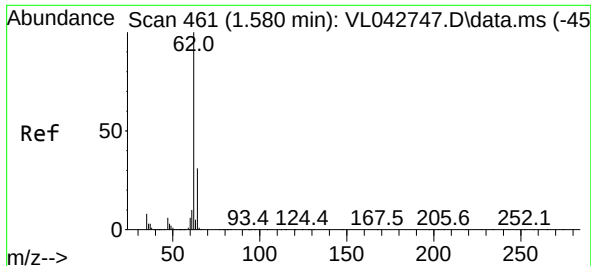


#4
Chloromethane
Concen: 1.082 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08



Tgt Ion: 50 Resp: 9047
Ion Ratio Lower Upper
50 100
52 31.2 26.6 40.0





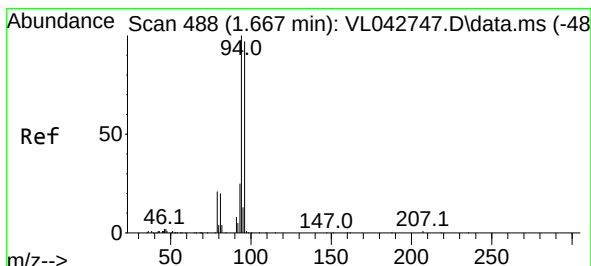
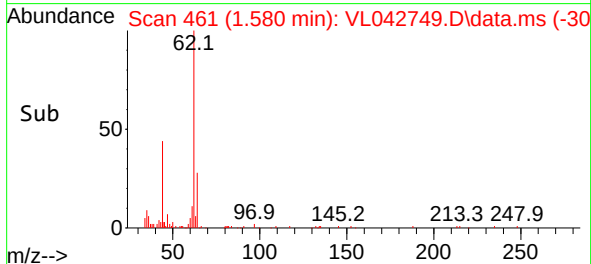
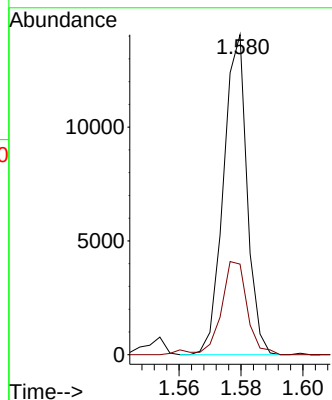
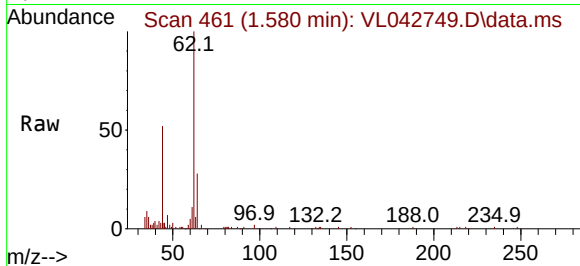
#5
 Vinyl Chloride
 Concen: 0.900 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 62 Resp: 7432
 Ion Ratio Lower Upper
 62 100
 64 28.3 24.5 36.7

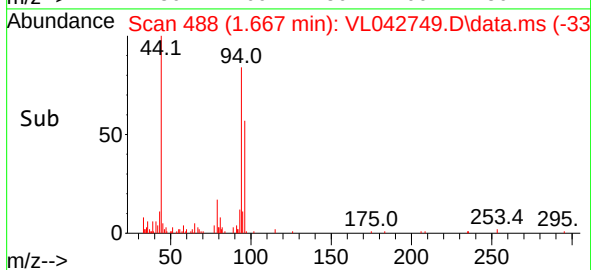
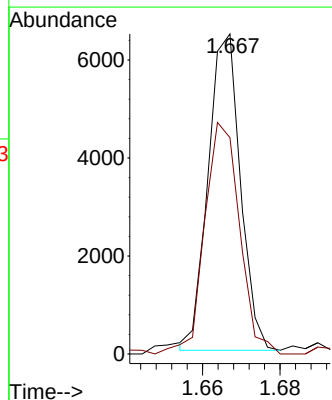
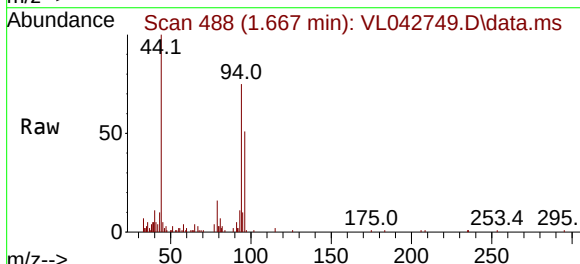
Manual Integrations
 APPROVED

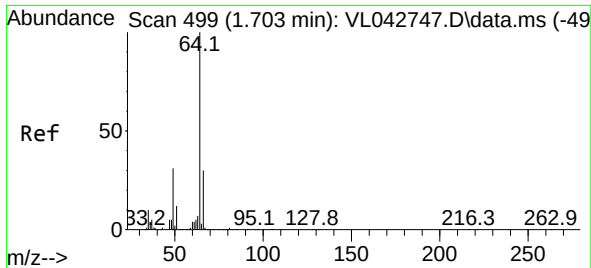
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#6
 Bromomethane
 Concen: 1.172 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 94 Resp: 3743
 Ion Ratio Lower Upper
 94 100
 96 68.4 77.6 116.4#





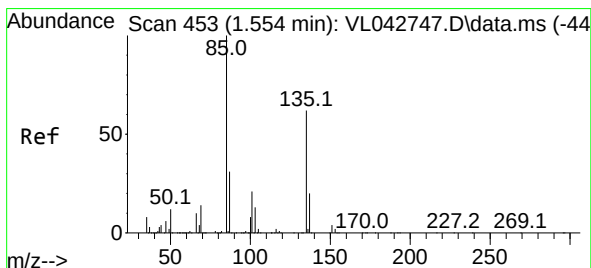
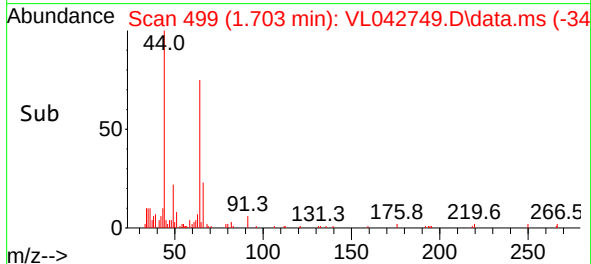
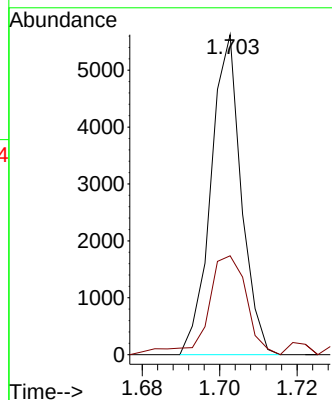
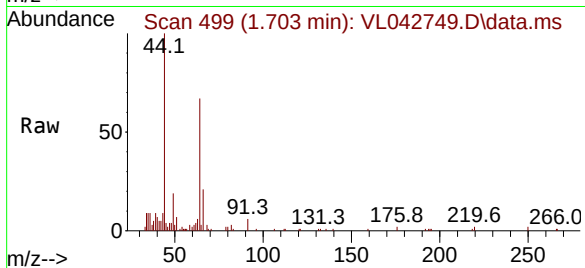
#7
Chloroethane
Concen: 0.959 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 64 Resp: 306
Ion Ratio Lower Upper
64 100
66 30.9 24.1 36.1

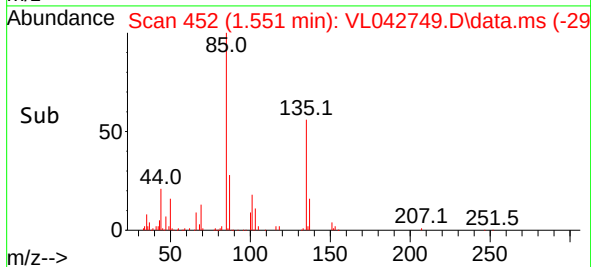
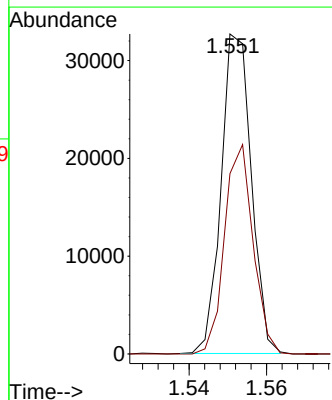
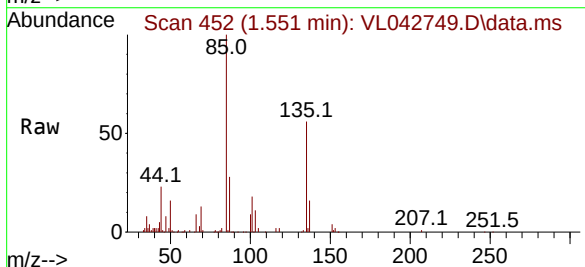
Manual Integrations
APPROVED

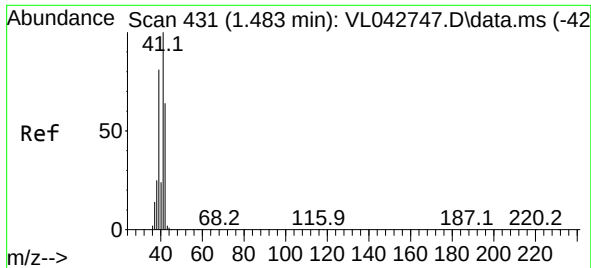
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#8
Dichlorotetrafluoroethane
Concen: 1.040 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 85 Resp: 17668
Ion Ratio Lower Upper
85 100
135 62.1 50.6 76.0





#9

Propene

Concen: 1.057 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 41 Resp: 10340

Ion Ratio Lower Upper

41 100

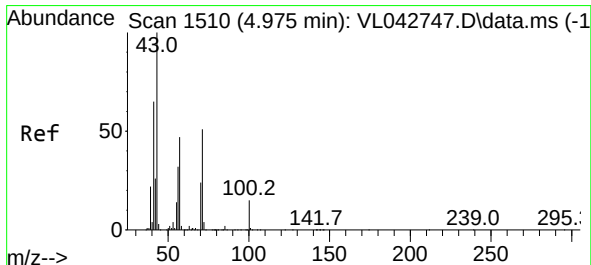
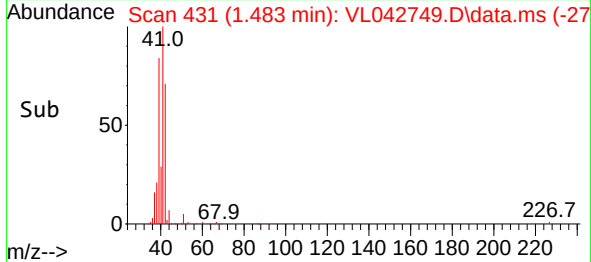
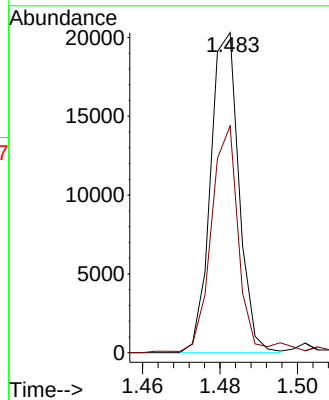
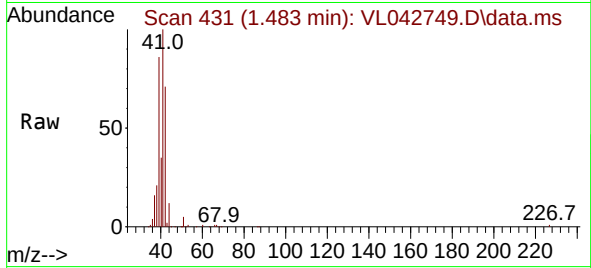
42 70.5 53.2 79.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#10

Heptane

Concen: 0.993 ppbv m

RT: 4.975 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VL042749.D

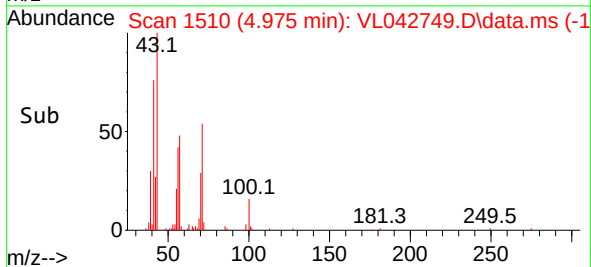
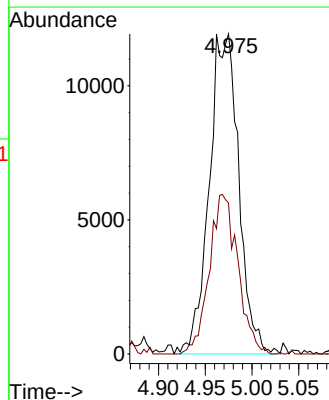
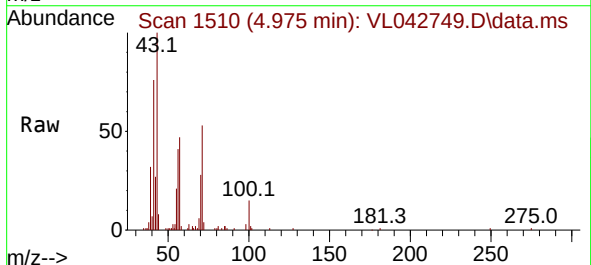
Acq: 23 Jul 2025 10:08

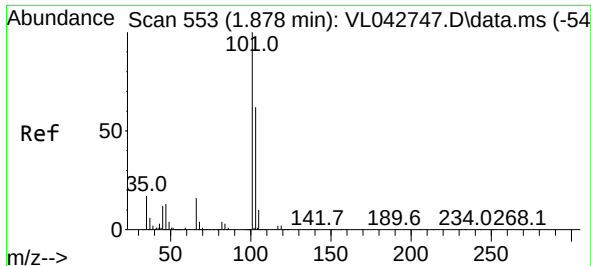
Tgt Ion: 43 Resp: 26137

Ion Ratio Lower Upper

43 100

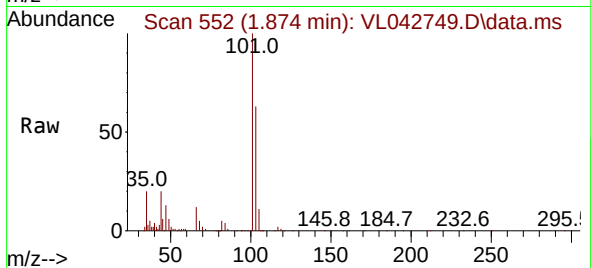
57 48.5 39.9 59.9





#11
 Trichlorofluoromethane
 Concen: 1.053 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

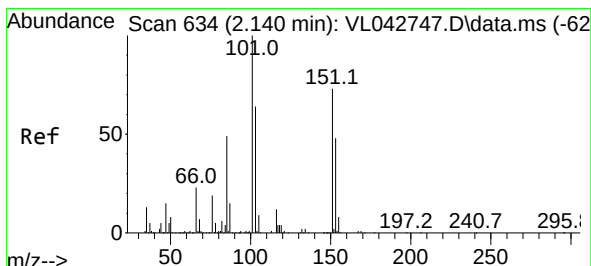
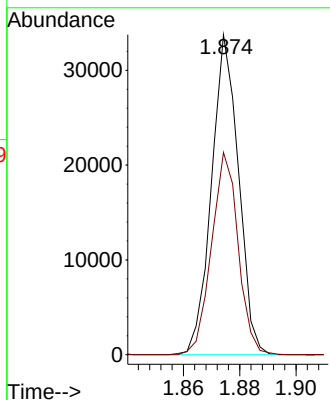
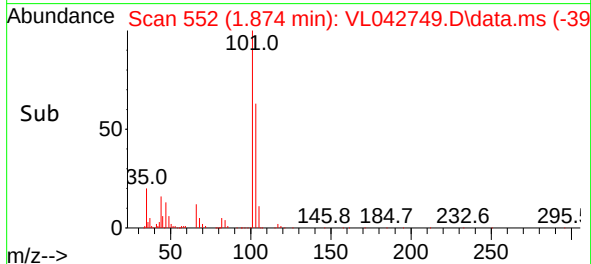
Instrument :
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 ClientSampleId :
 VSTDIC001



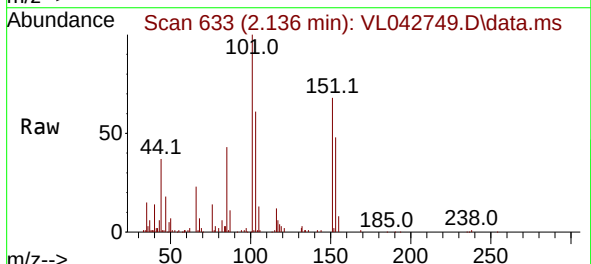
Tgt Ion:101 Resp: 22428
 Ion Ratio Lower Upper
 101 100
 103 63.2 49.6 74.4

Manual Integrations
 APPROVED

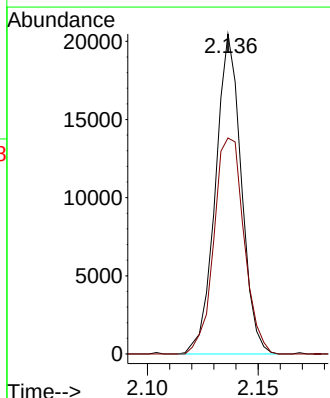
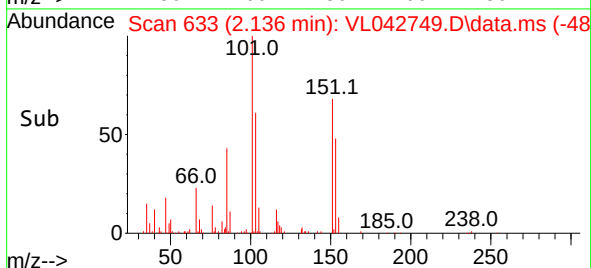
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

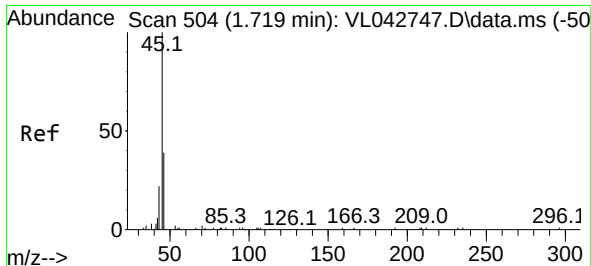


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.026 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08



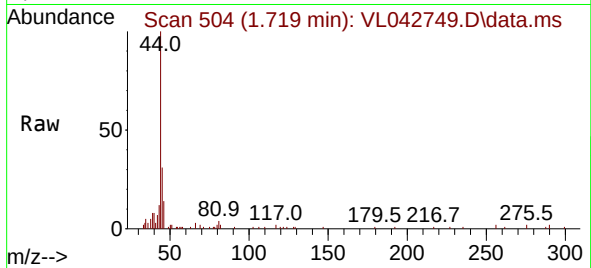
Tgt Ion:101 Resp: 16608
 Ion Ratio Lower Upper
 101 100
 151 78.6 60.5 90.7





#13
Ethanol
Concen: 1.222 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

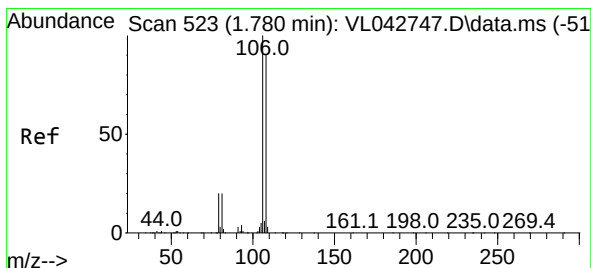
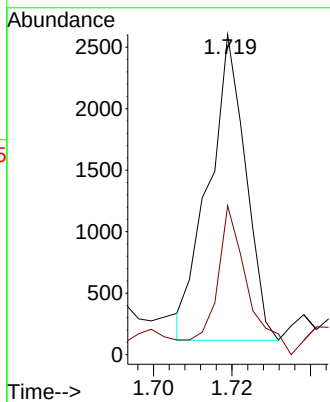
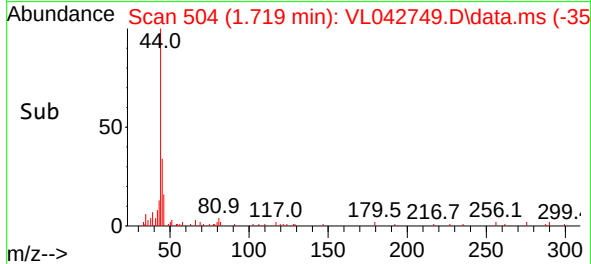
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



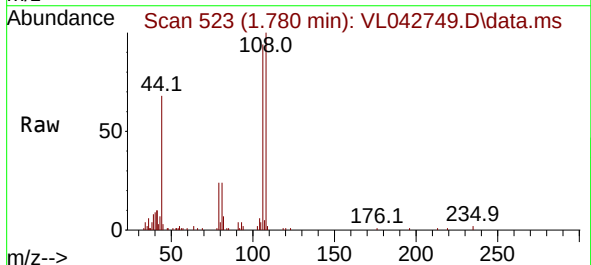
Tgt Ion: 45 Resp: 1620
Ion Ratio Lower Upper
45 100
46 38.4 17.8 71.4

Manual Integrations
APPROVED

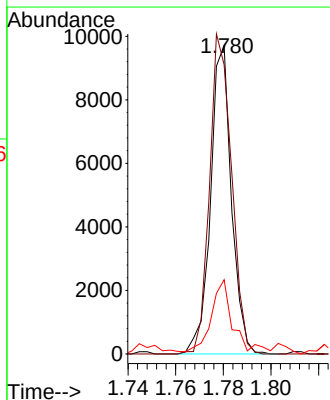
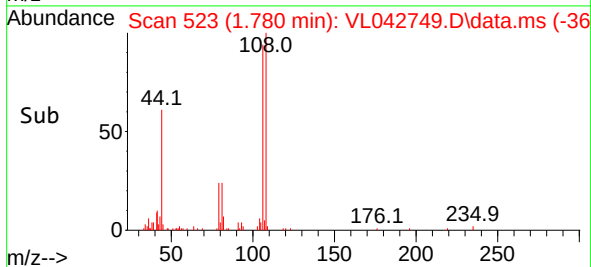
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

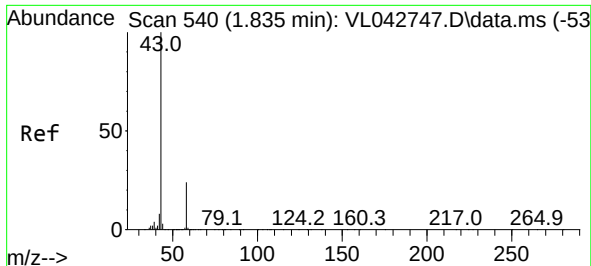


#14
Bromoethene
Concen: 1.034 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08



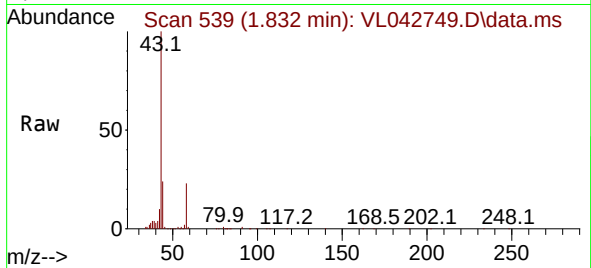
Tgt Ion:108 Resp: 5928
Ion Ratio Lower Upper
108 100
106 108.7 84.7 127.1
79 38.6 17.4 26.2#





#15
Acetone
Concen: 1.071 ppbv
RT: 1.832 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

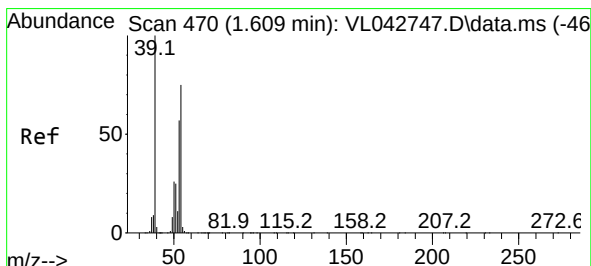
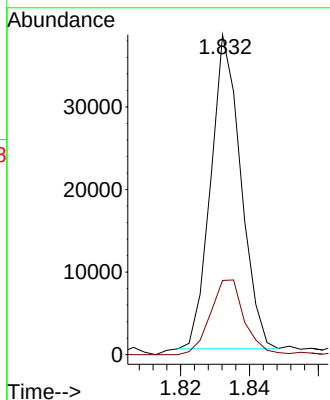
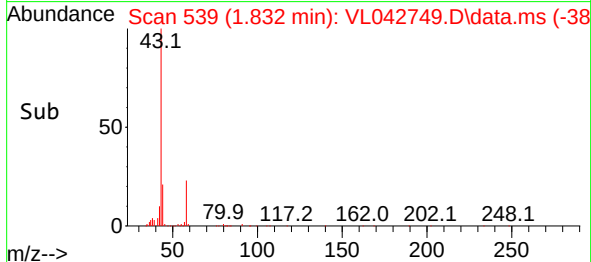
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 43 Resp: 23119
Ion Ratio Lower Upper
43 100
58 27.7 19.8 29.8

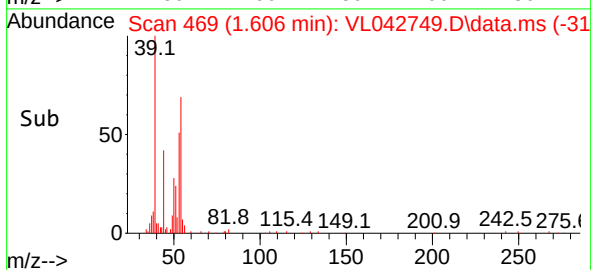
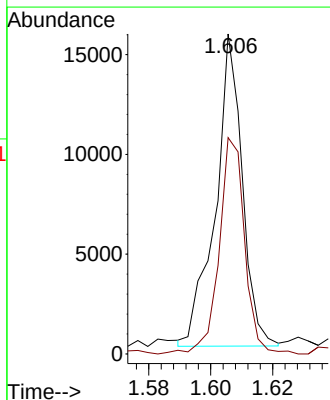
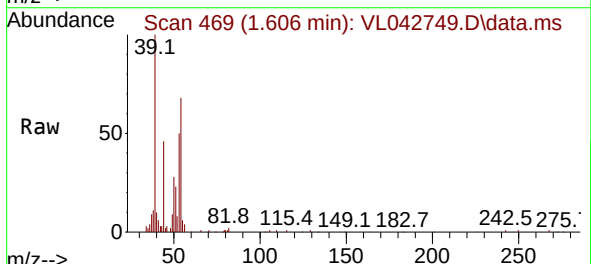
Manual Integrations
APPROVED

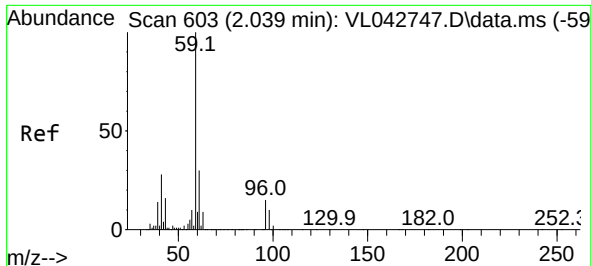
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#16
1,3-Butadiene
Concen: 1.023 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 39 Resp: 9416
Ion Ratio Lower Upper
39 100
54 69.7 54.5 81.7





#17

tert-Butyl alcohol

Concen: 1.024 ppbv

RT: 2.039 min Scan# 603

Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 59 Resp: 19920

Ion Ratio Lower Upper

59 100

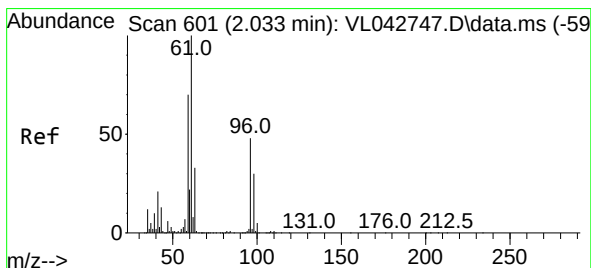
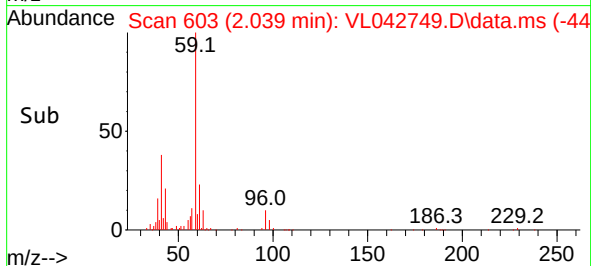
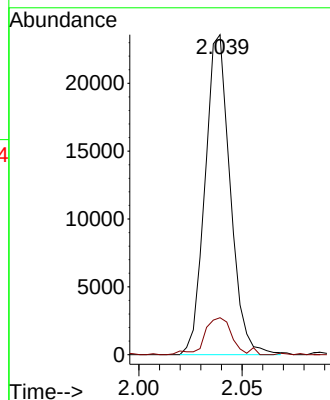
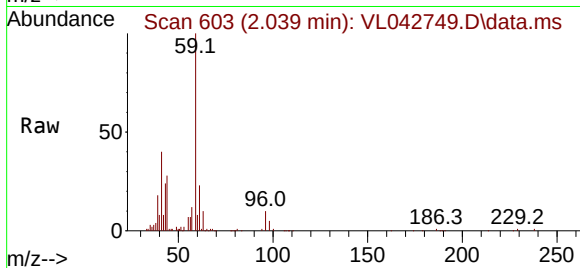
57 12.9 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#18

1,1-Dichloroethene

Concen: 1.132 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

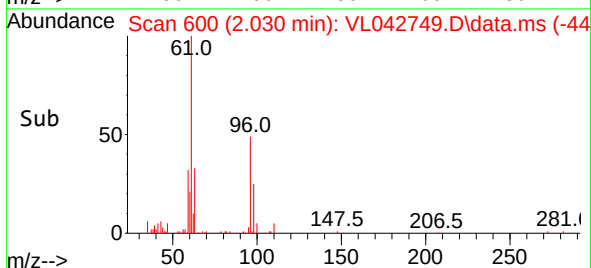
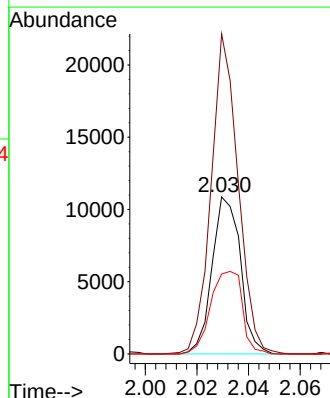
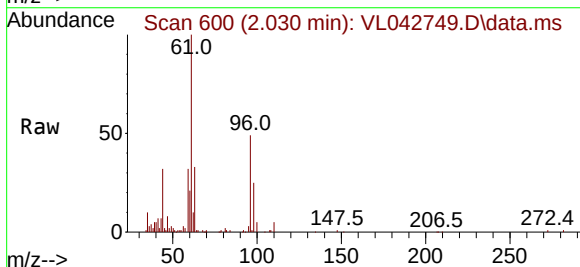
Tgt Ion: 96 Resp: 8276

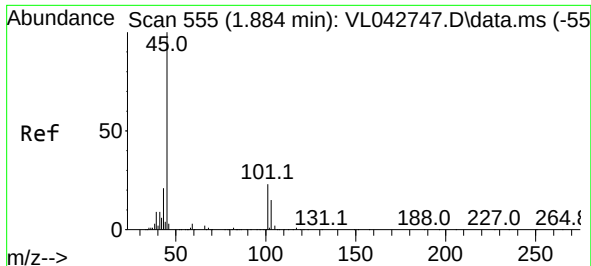
Ion Ratio Lower Upper

96 100

61 203.0 165.8 248.6

98 51.0 49.9 74.9





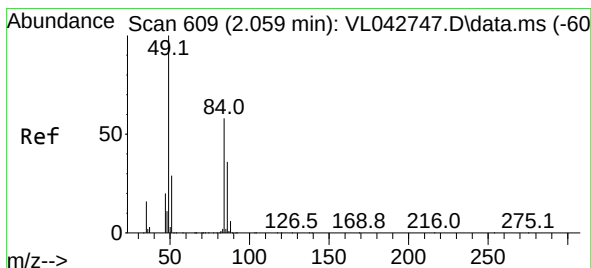
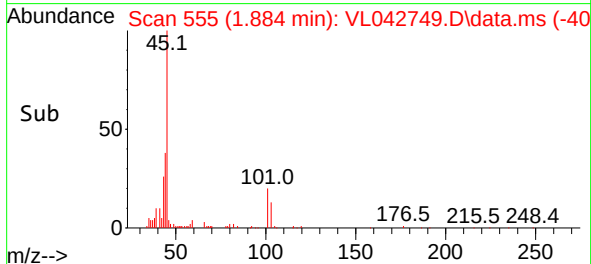
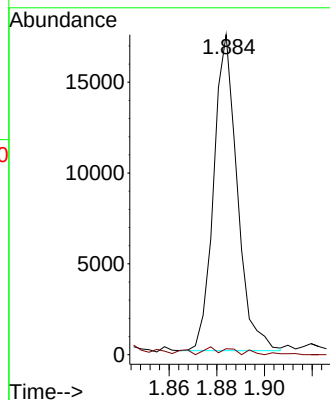
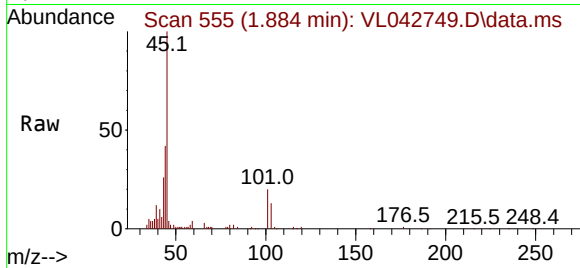
#19
Isopropyl Alcohol
Concen: 1.041 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 45 Resp: 1194
Ion Ratio Lower Upper
45 100
58 2.8 30.0 45.0

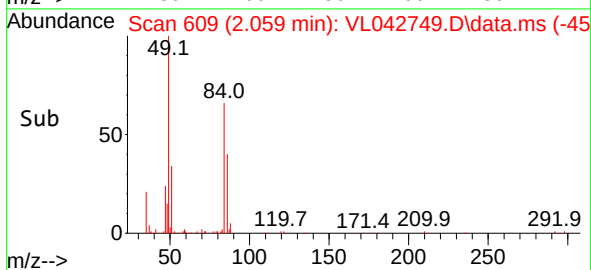
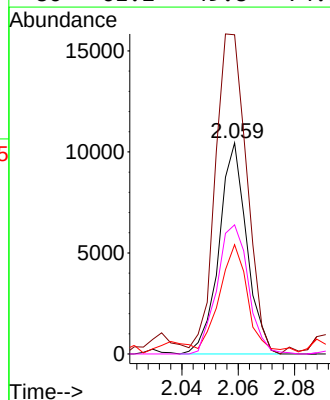
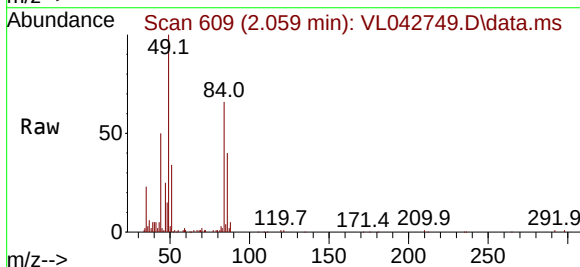
Manual Integrations
APPROVED

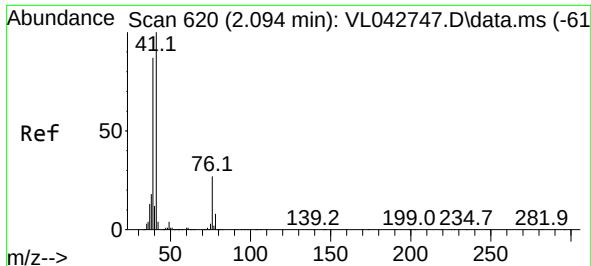
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#20
Methylene Chloride
Concen: 1.052 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 84 Resp: 7153
Ion Ratio Lower Upper
84 100
49 151.3 138.6 208.0
51 50.2 40.6 61.0
86 61.2 49.8 74.8





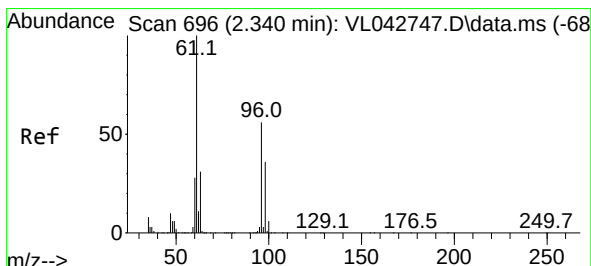
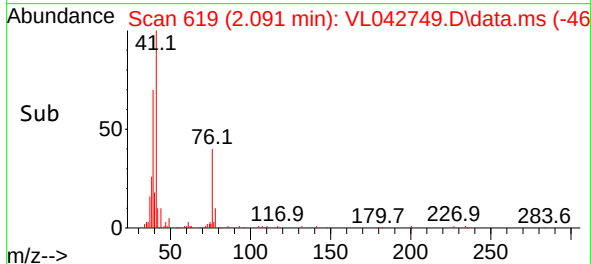
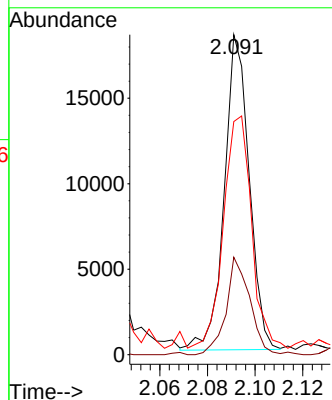
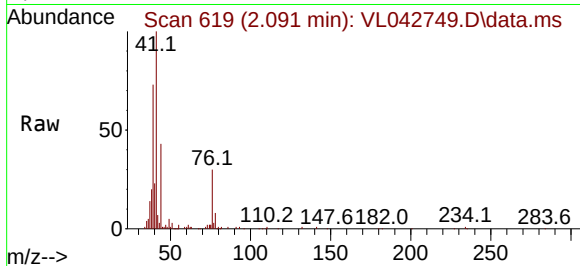
#21
 Allyl Chloride
 Concen: 1.006 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 41 Resp: 1338
 Ion Ratio Lower Upper
 41 100
 76 30.1 21.1 31.7
 39 93.4 68.3 102.5

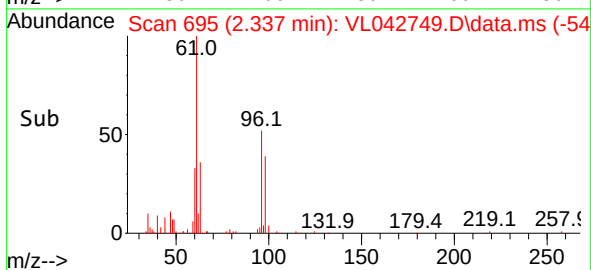
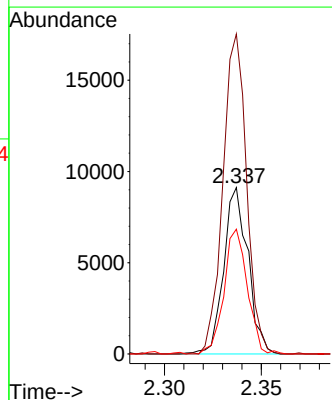
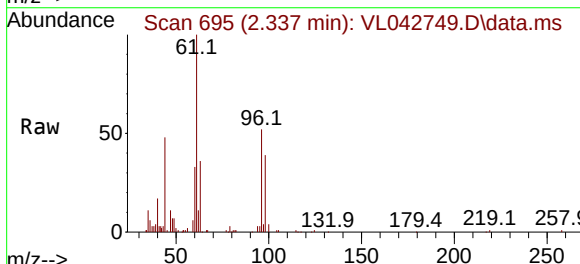
Manual Integrations
 APPROVED

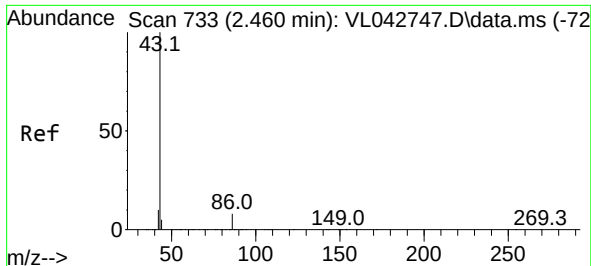
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#22
 trans-1,2-Dichloroethene
 Concen: 1.007 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 96 Resp: 7909
 Ion Ratio Lower Upper
 96 100
 61 192.3 142.3 213.5
 98 74.2 50.6 76.0





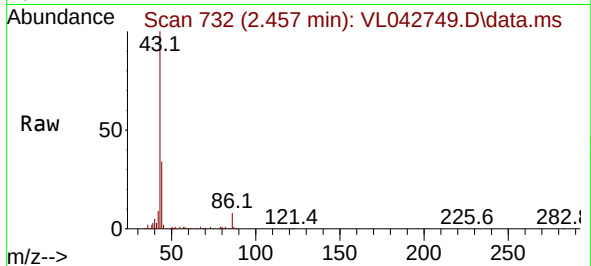
#23
 Vinyl Acetate
 Concen: 0.897 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

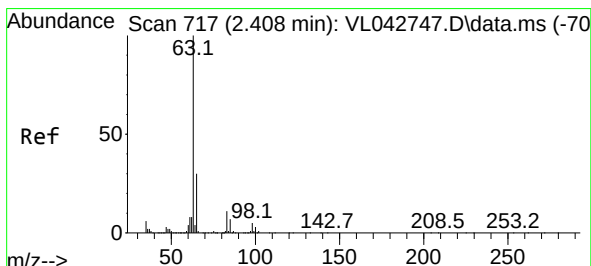
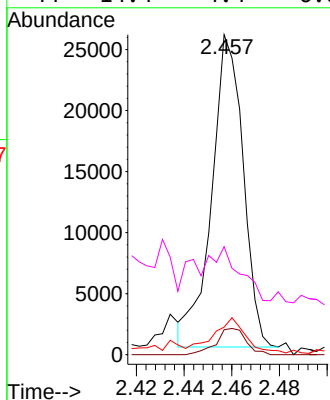
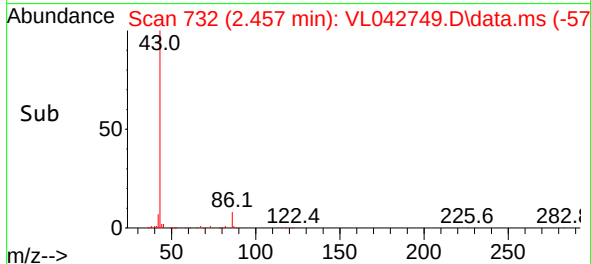


Tgt Ion: 43 Resp: 23472
 Ion Ratio Lower Upper
 43 100
 86 8.0 6.1 9.1
 42 7.5 7.8 11.8
 44 14.4 4.4 6.6

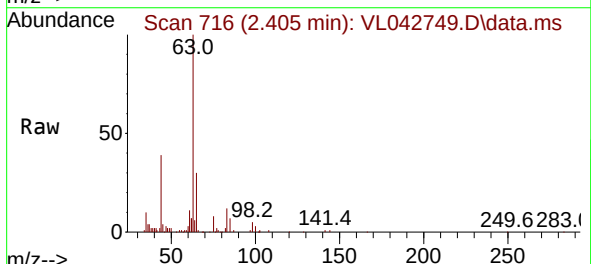
Manual Integrations

APPROVED

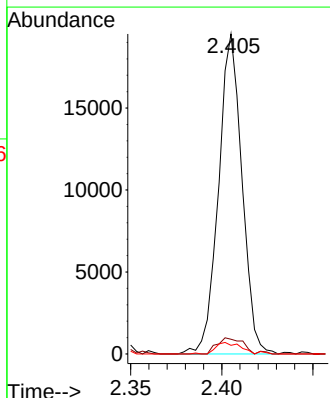
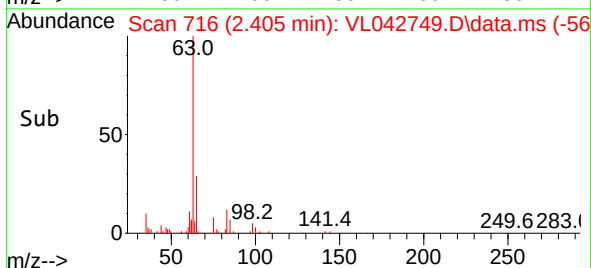
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

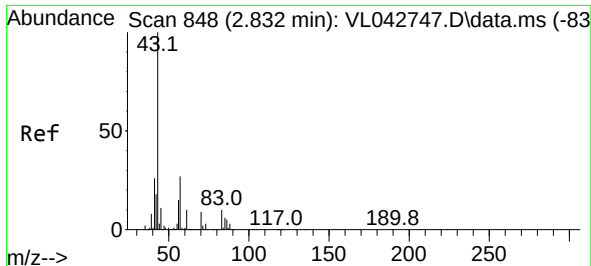


#24
 1,1-Dichloroethane
 Concen: 1.081 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08



Tgt Ion: 63 Resp: 17459
 Ion Ratio Lower Upper
 63 100
 98 4.6 2.5 7.4
 100 2.7 1.6 4.8





#25
Ethyl Acetate
Concen: 1.021 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

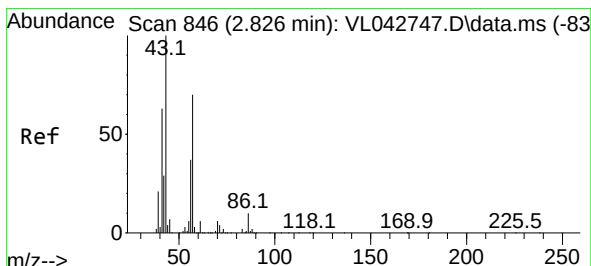
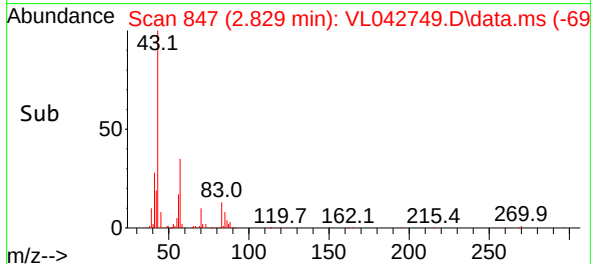
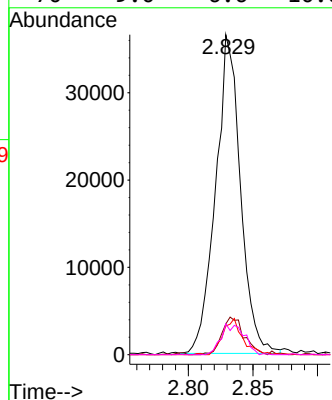
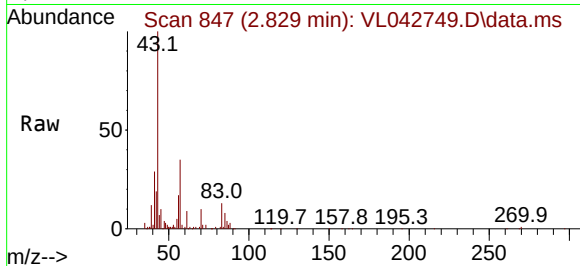
VSTDICC001

Tgt Ion: 43 Resp: 48790
Ion Ratio Lower Upper
43 100
45 11.3 7.8 11.6
61 9.3 6.7 10.1
70 9.0 6.6 10.0

Manual Integrations

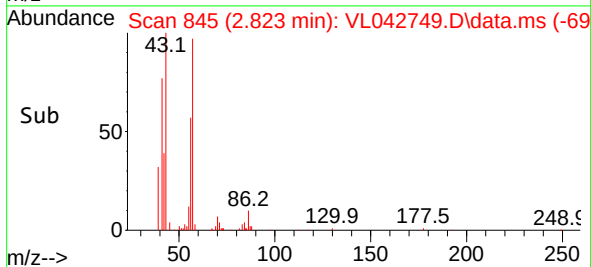
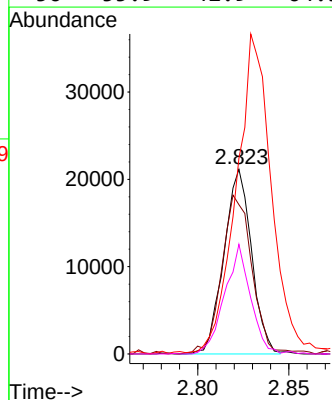
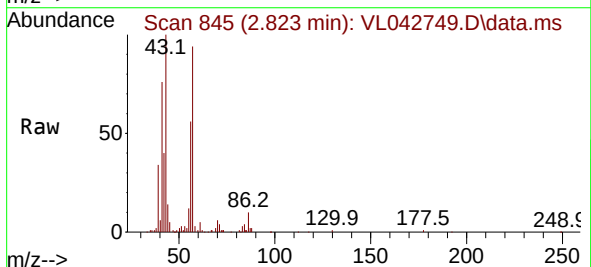
APPROVED

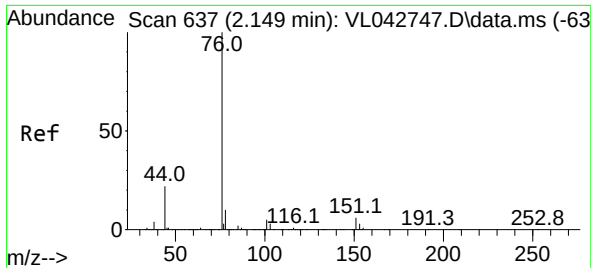
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#26
Hexane
Concen: 1.063 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 57 Resp: 22279
Ion Ratio Lower Upper
57 100
41 98.5 75.4 113.2
43 230.7 185.0 277.6
56 55.9 42.9 64.3





#27
Carbon Disulfide
Concen: 1.031 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

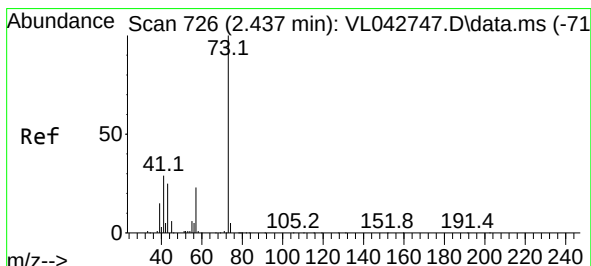
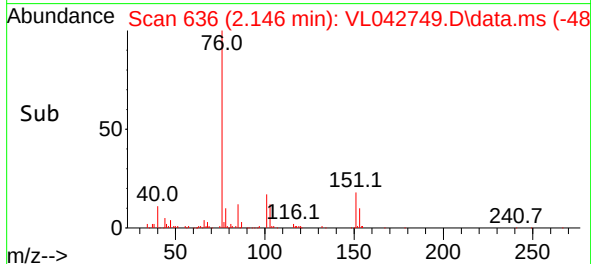
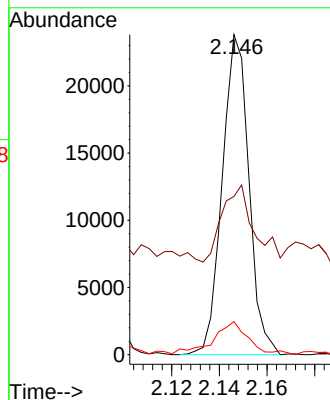
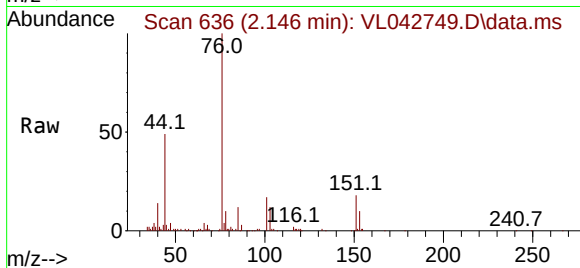
VSTDICC001

Tgt Ion: 76 Resp: 1848
Ion Ratio Lower Upper
76 100
44 115.6 19.3 28.9
78 14.9 9.9 14.9

Manual Integrations

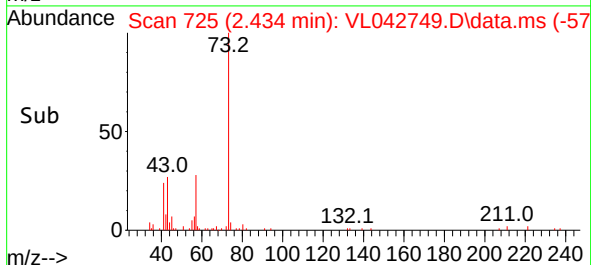
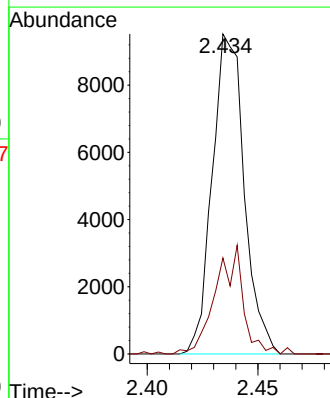
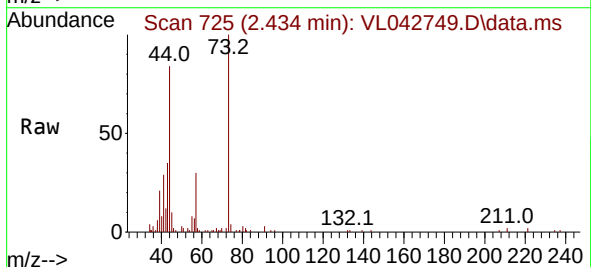
APPROVED

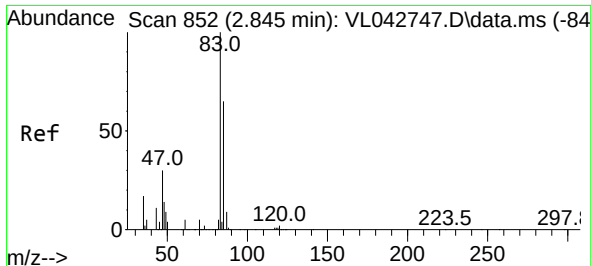
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#28
Methyl tert-Butyl Ether
Concen: 0.968 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 73 Resp: 9587
Ion Ratio Lower Upper
73 100
57 29.7 19.8 29.8





#29

Chloroform

Concen: 1.015 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 83 Resp: 32880

Ion Ratio Lower Upper

83 100

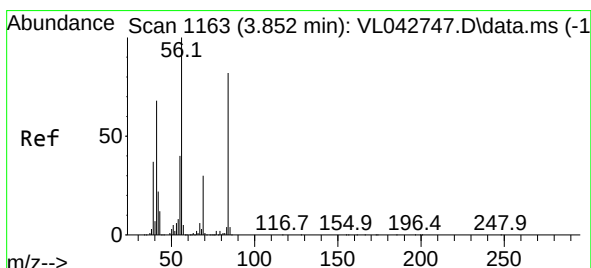
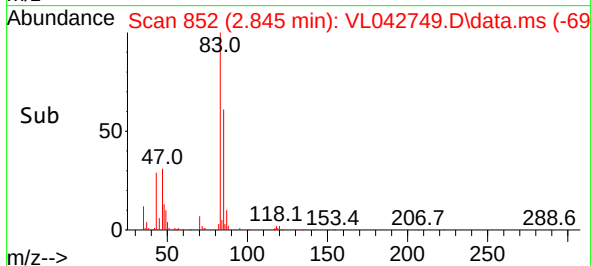
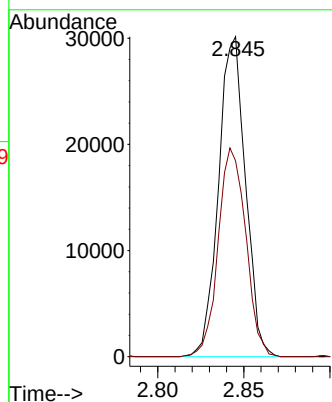
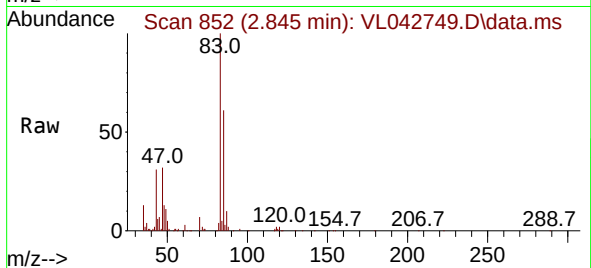
85 61.2 52.2 78.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#30

Cyclohexane

Concen: 1.003 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

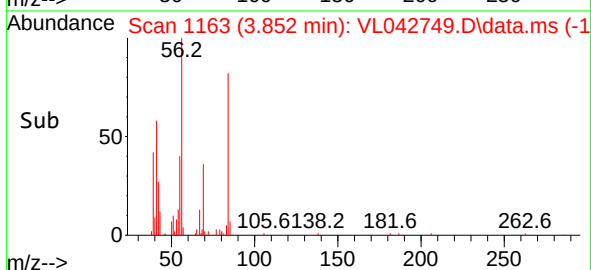
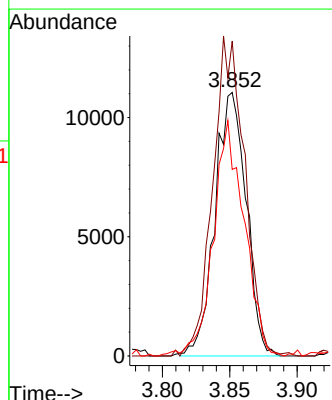
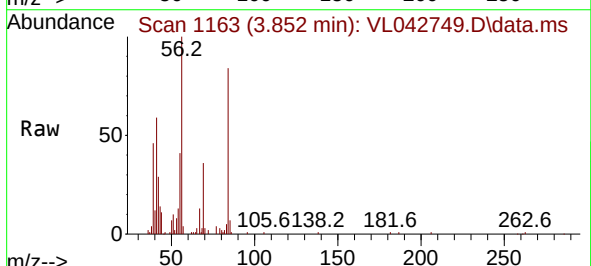
Tgt Ion: 84 Resp: 17824

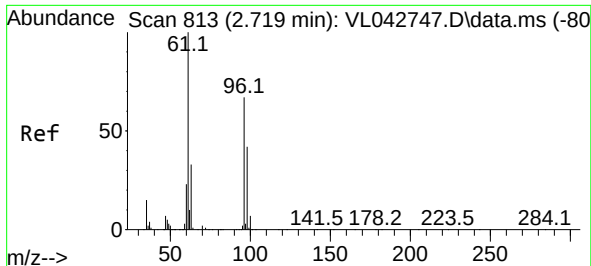
Ion Ratio Lower Upper

84 100

56 124.3 97.5 146.3

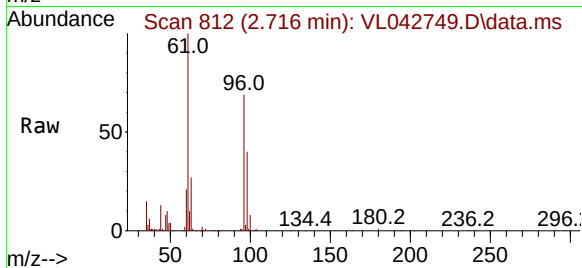
41 88.5 67.2 100.8





#31
 cis-1,2-Dichloroethene
 Concen: 1.021 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

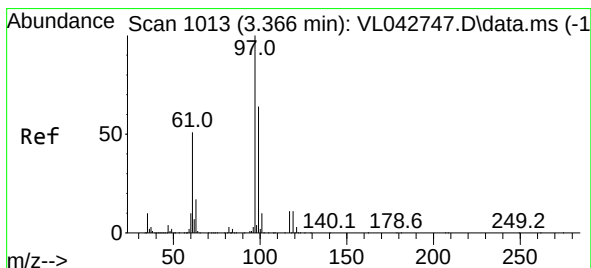
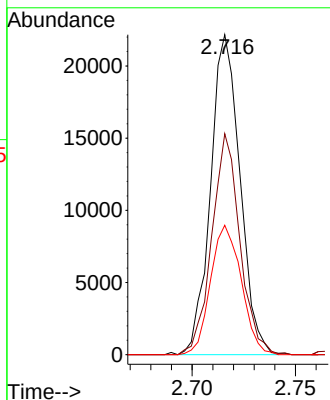
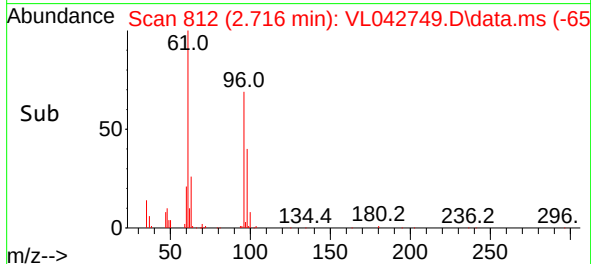
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



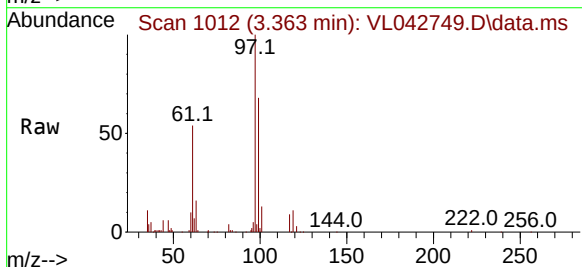
Tgt Ion: 61 Resp: 21979
 Ion Ratio Lower Upper
 61 100
 96 69.0 53.5 80.3
 98 40.5 33.6 50.4

Manual Integrations
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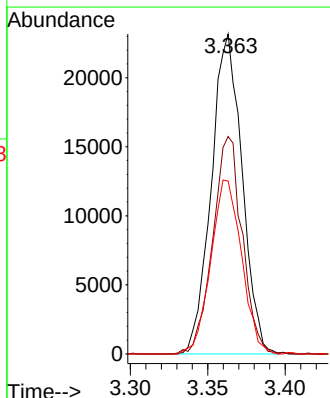
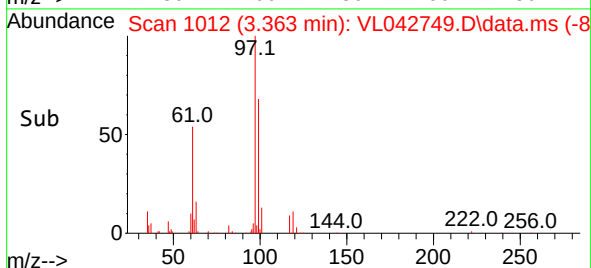
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

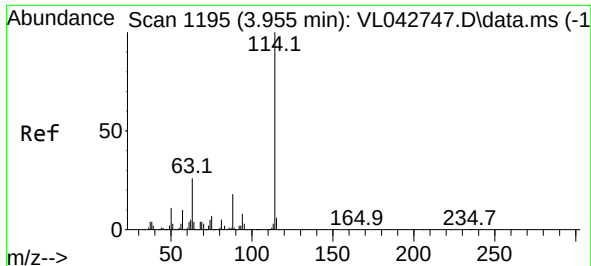


#32
 1,1,1-Trichloroethane
 Concen: 0.949 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08



Tgt Ion: 97 Resp: 32003
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.0 76.6
 61 54.5 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 459770

Ion Ratio Lower Upper

114 100

63 25.5 20.5 30.7

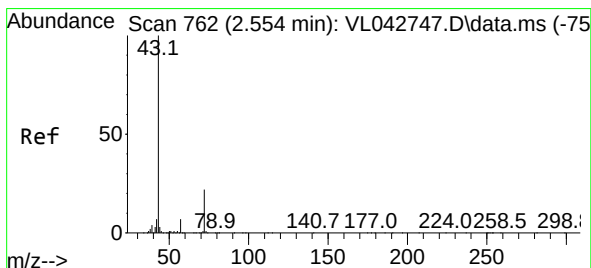
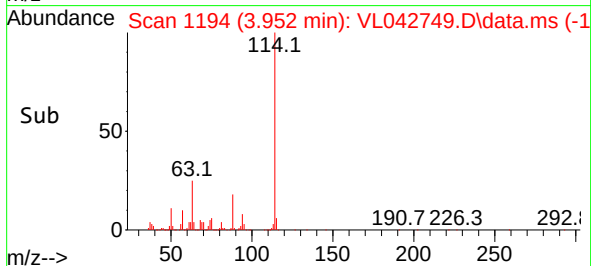
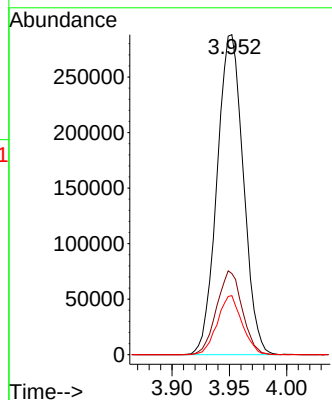
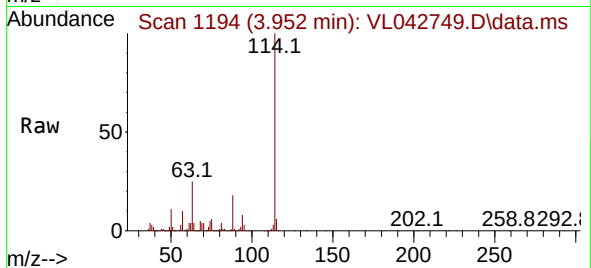
88 17.4 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#34

2-Butanone

Concen: 1.007 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.000 min

Lab File: VL042749.D

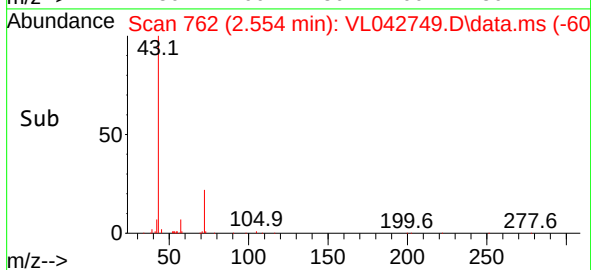
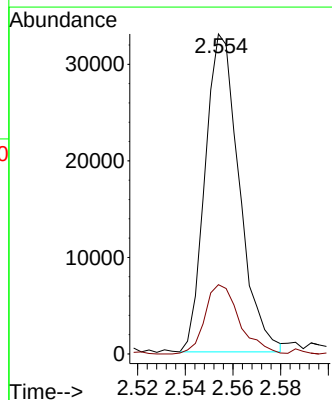
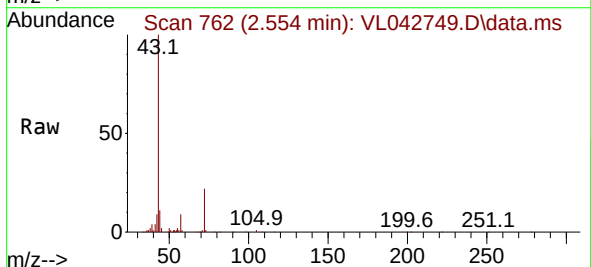
Acq: 23 Jul 2025 10:08

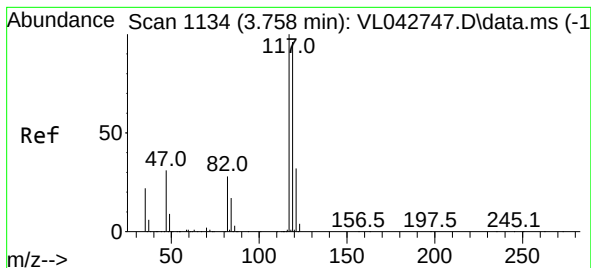
Tgt Ion: 43 Resp: 32783

Ion Ratio Lower Upper

43 100

72 22.7 17.4 26.0





#35

Carbon Tetrachloride

Concen: 0.954 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

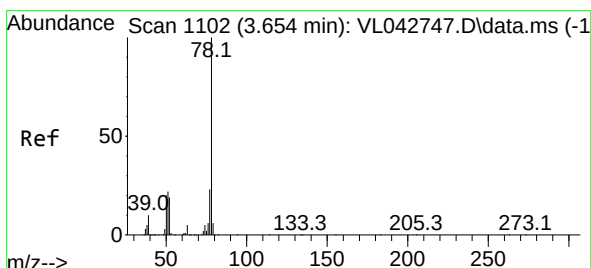
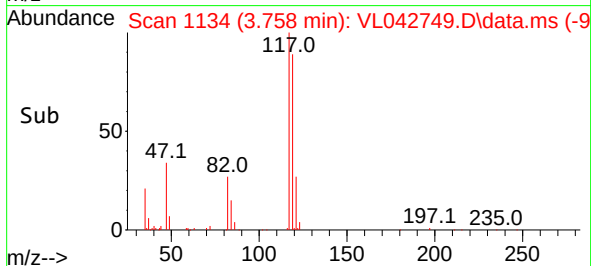
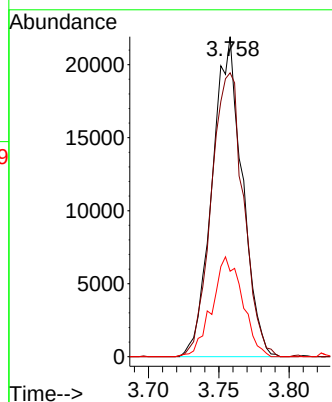
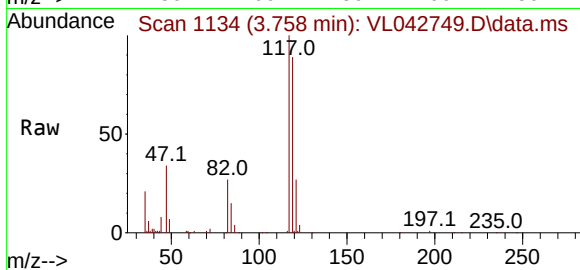
VSTDIC001

Tgt Ion:	117	Resp:	32610
Ion	Ratio	Lower	Upper
117	100		
119	88.7	77.1	115.7
121	26.7	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#36

Benzene

Concen: 1.024 ppbv

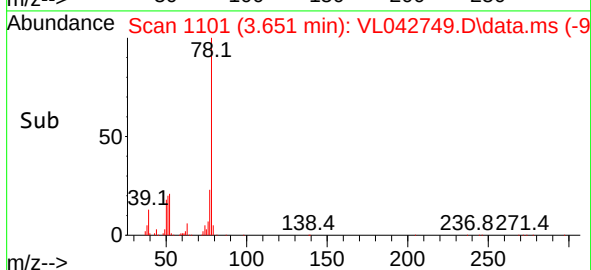
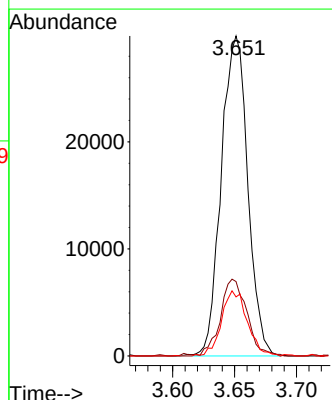
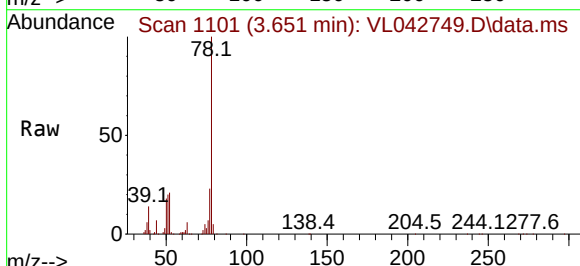
RT: 3.651 min Scan# 1101

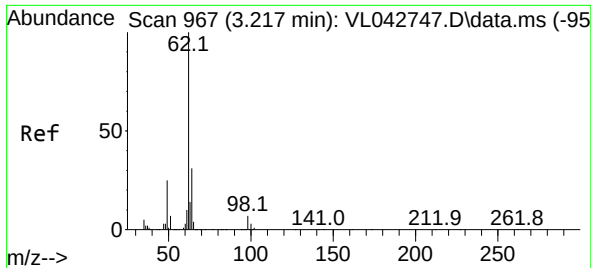
Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Tgt Ion:	78	Resp:	44638
Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.5	27.7
50	18.4	16.2	24.2





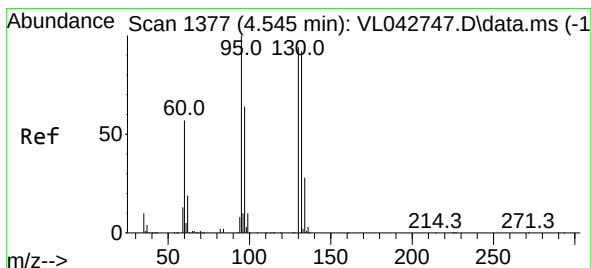
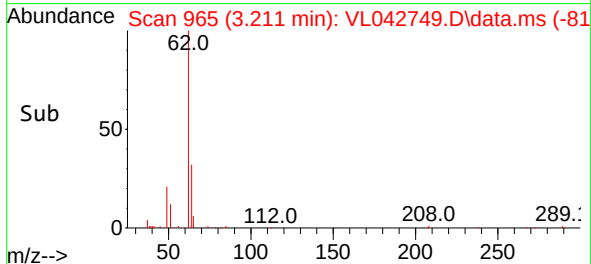
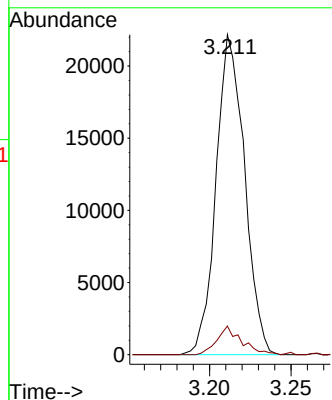
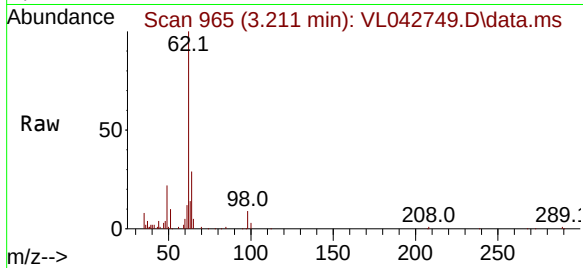
#37
1,2-Dichloroethane
Concen: 1.025 ppbv
RT: 3.211 min Scan# 90
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 2690
Ion Ratio Lower Upper
62 100
98 8.0 5.2 7.8

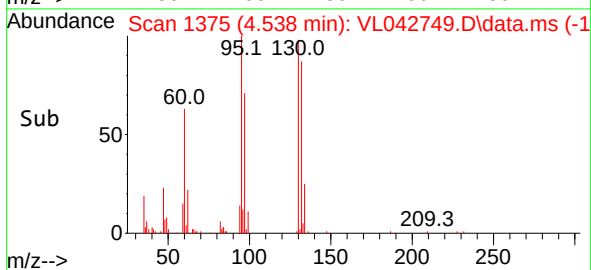
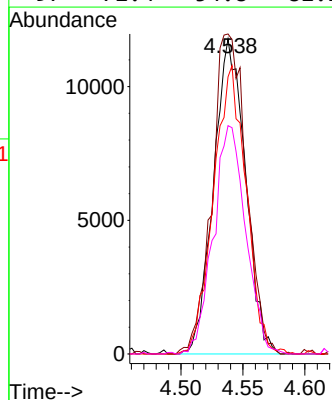
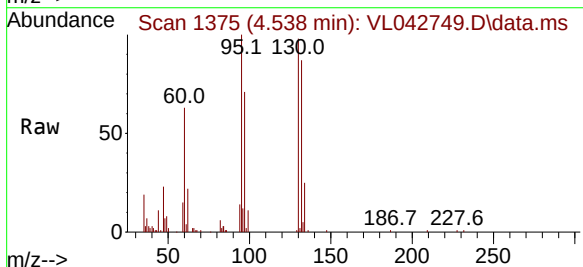
Manual Integrations
APPROVED

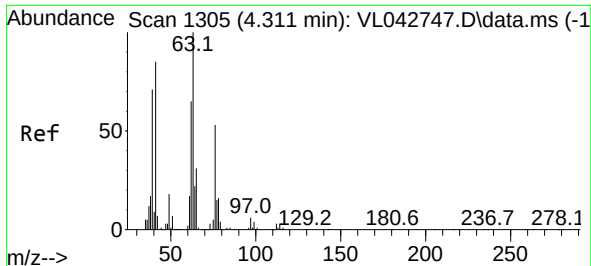
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#38
Trichloroethene
Concen: 1.005 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:130 Resp: 21122
Ion Ratio Lower Upper
130 100
95 101.6 85.4 128.2
132 87.5 78.2 117.2
97 72.4 54.8 82.2





#39

1,2-Dichloropropane

Concen: 1.033 ppbv

RT: 4.305 min Scan# 1305

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

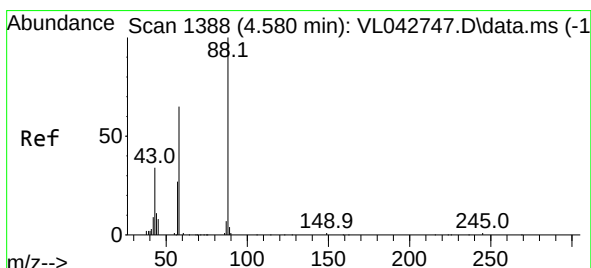
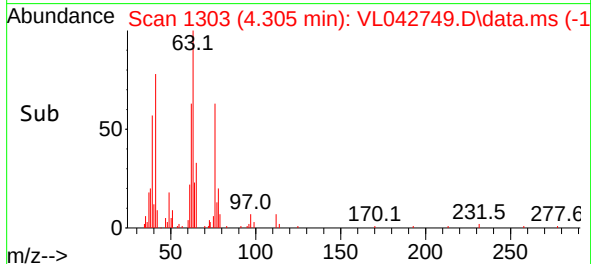
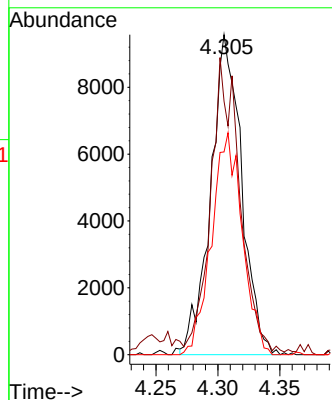
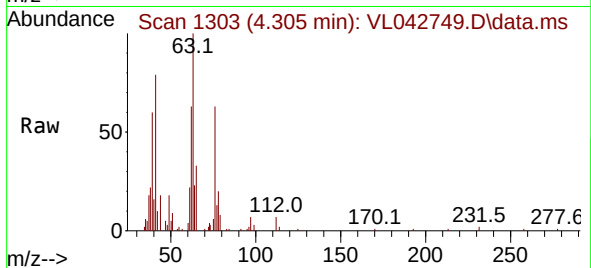
Tgt Ion: 63 Resp: 1662

Ion	Ratio	Lower	Upper
63	100		
41	77.8	68.2	102.4
62	63.3	52.0	78.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#40

1,4-Dioxane

Concen: 1.030 ppbv m

RT: 4.587 min Scan# 1390

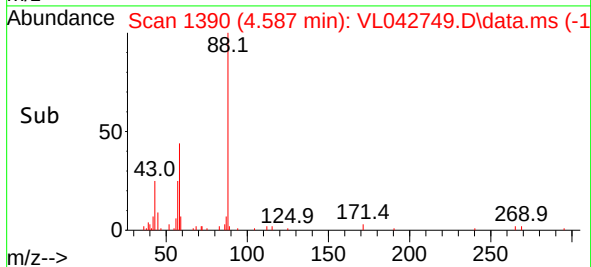
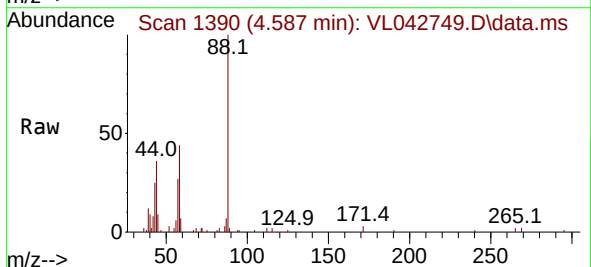
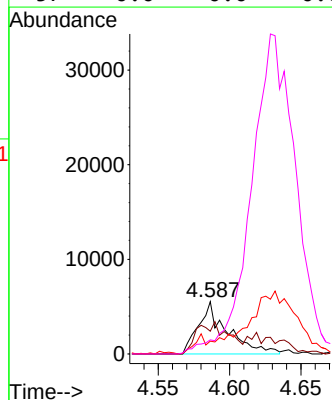
Delta R.T. 0.006 min

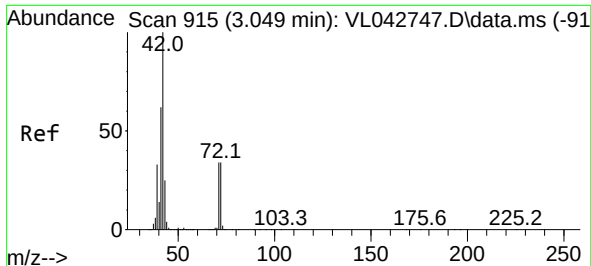
Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Tgt Ion: 88 Resp: 7811

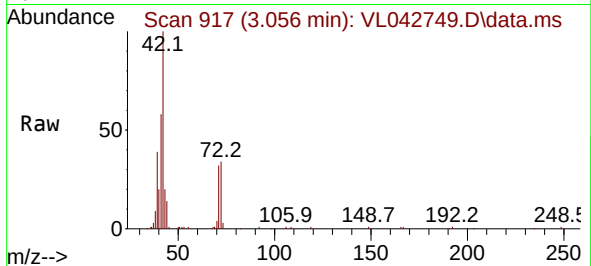
Ion	Ratio	Lower	Upper
88	100		
58	0.0	58.8	88.2#
43	0.0	28.9	43.3#
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 0.984 ppbv
RT: 3.056 min Scan# 915
Delta R.T. 0.006 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

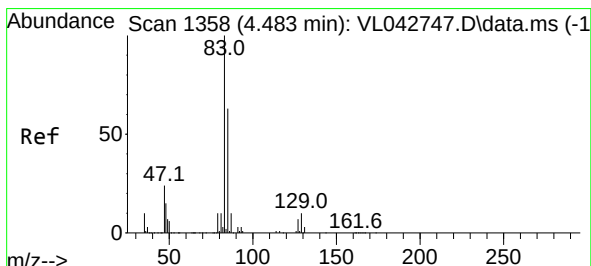
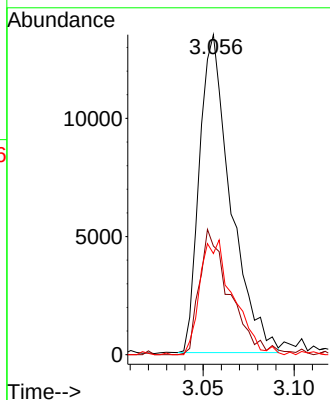
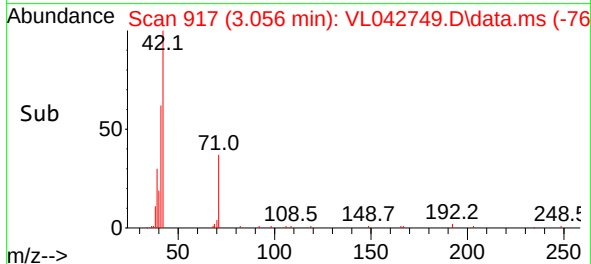
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



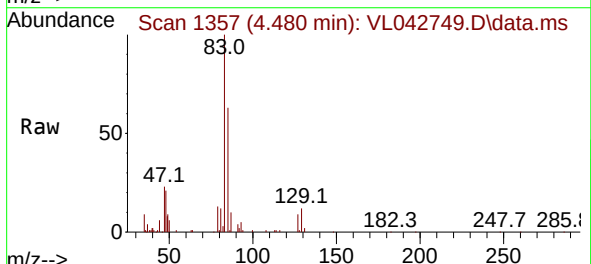
Tgt Ion: 42 Resp: 1609
Ion Ratio Lower Upper
42 100
72 39.1 30.9 46.3
71 38.6 28.6 43.0

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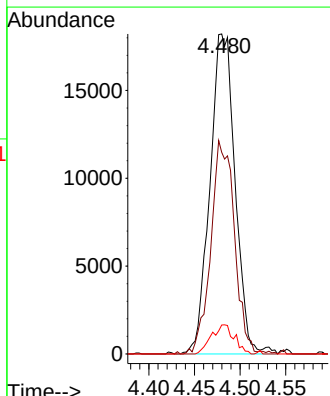
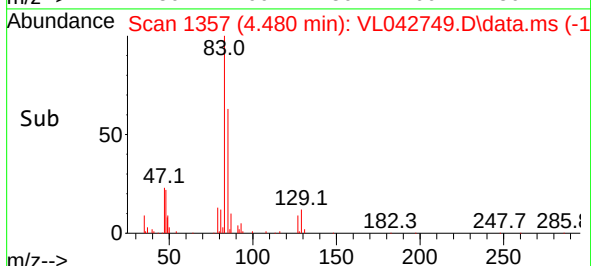
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

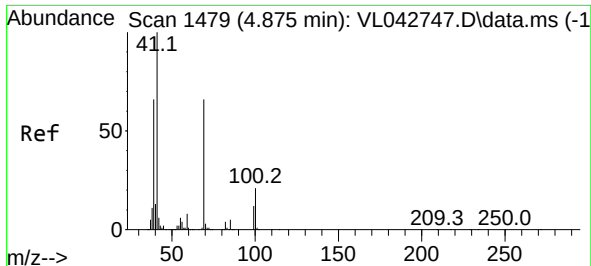


#42
Bromodichloromethane
Concen: 1.023 ppbv m
RT: 4.480 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08



Tgt Ion: 83 Resp: 34995
Ion Ratio Lower Upper
83 100
85 63.0 50.2 75.4
127 9.1 5.4 8.2#





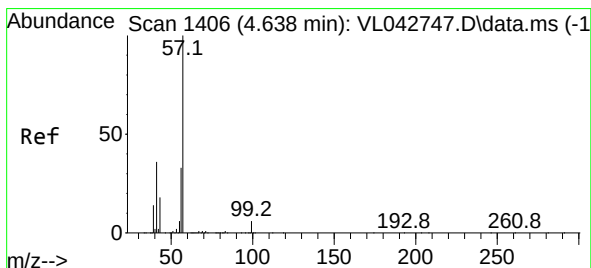
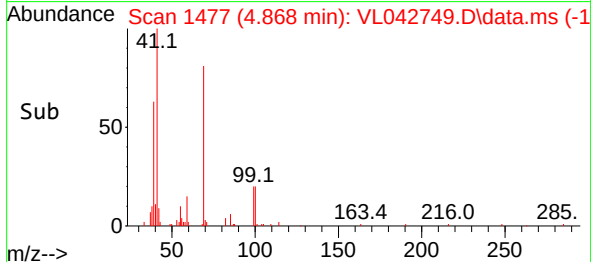
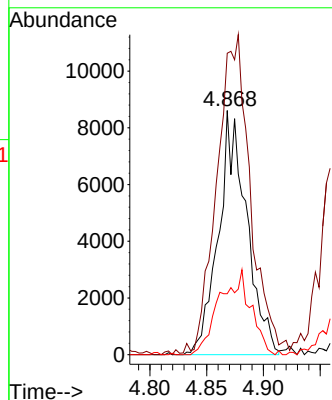
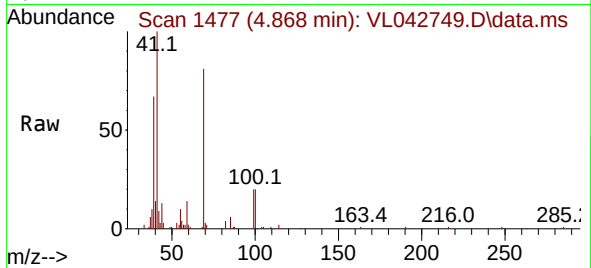
#43
Methyl Methacrylate
Concen: 0.961 ppbv
RT: 4.868 min Scan# 1479
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 69 Resp: 1488
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5
100 0.0 28.6 42.8

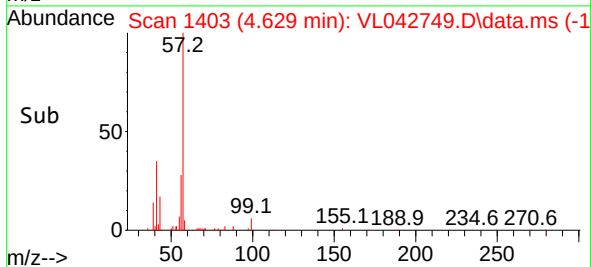
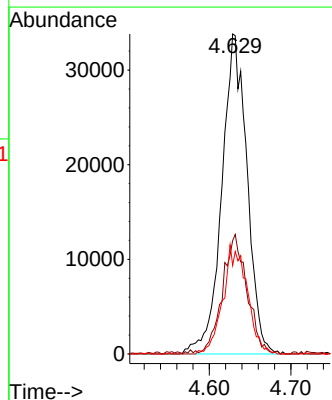
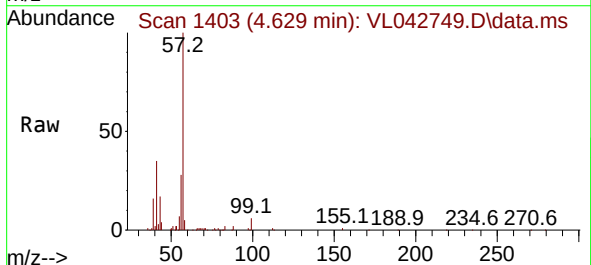
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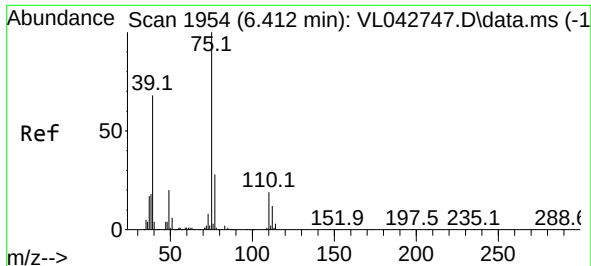
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#44
2,2,4-Trimethylpentane
Concen: 1.026 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 57 Resp: 72865
Ion Ratio Lower Upper
57 100
41 36.4 28.3 42.5
56 32.5 25.8 38.6





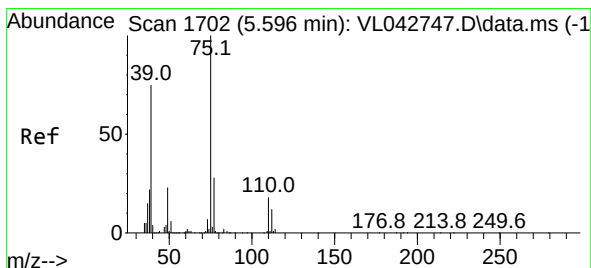
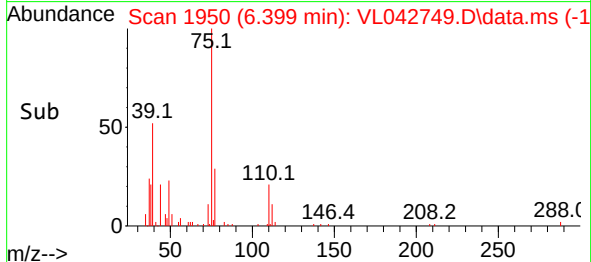
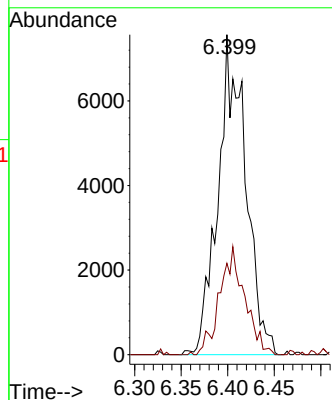
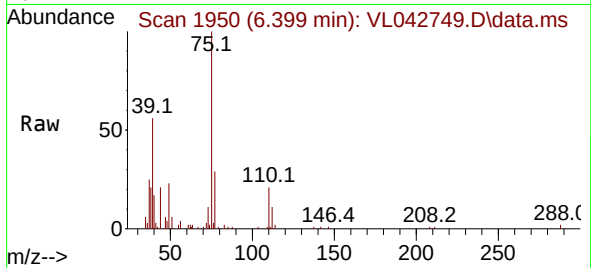
#45
t-1,3-Dichloropropene
Concen: 0.900 ppbv m
RT: 6.399 min Scan# 1954
Delta R.T. -0.013 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 1564
Ion Ratio Lower Upper
75 100
77 28.5 22.4 33.6

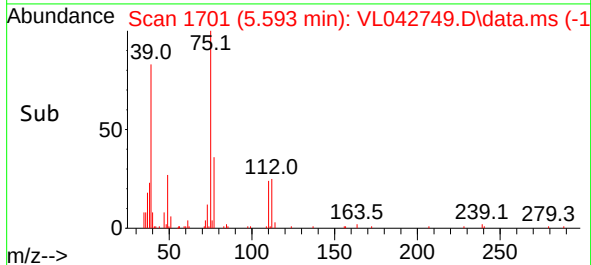
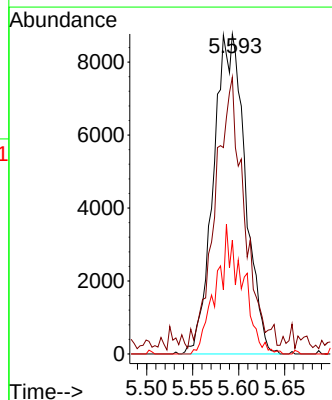
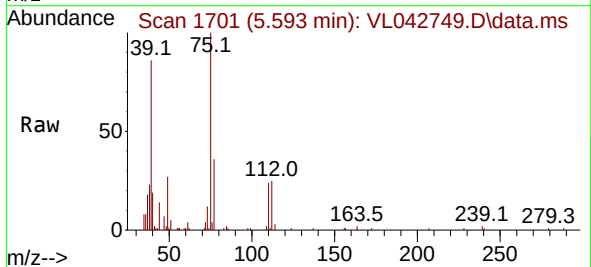
Manual Integrations
APPROVED

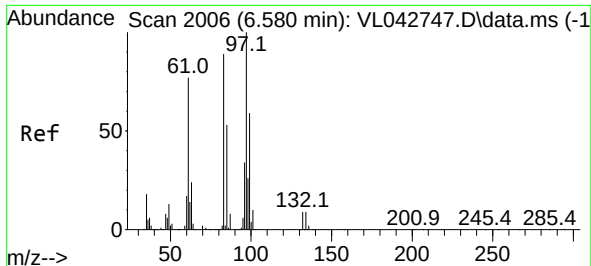
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#46
cis-1,3-Dichloropropene
Concen: 0.958 ppbv m
RT: 5.593 min Scan# 1701
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 75 Resp: 21088
Ion Ratio Lower Upper
75 100
39 86.5 60.2 90.2
77 35.6 22.6 34.0#





#47

1,1,2-Trichloroethane

Concen: 1.029 ppbv

RT: 6.574 min Scan# 2004

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 97 Resp: 17640

Ion Ratio Lower Upper

97 100

83 60.2 71.1 106.7

85 46.8 43.0 64.4

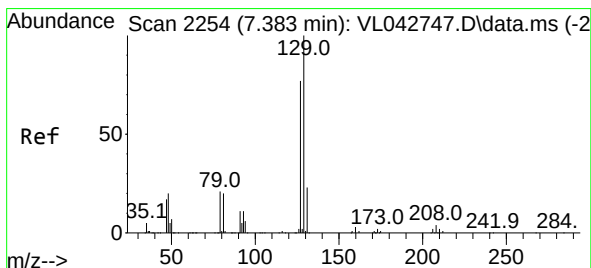
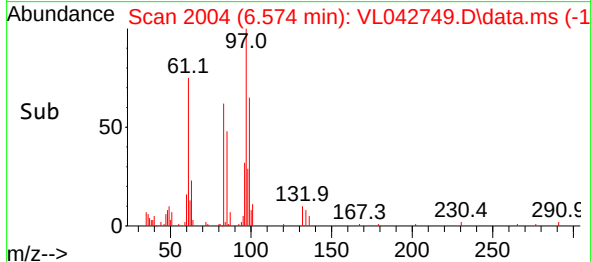
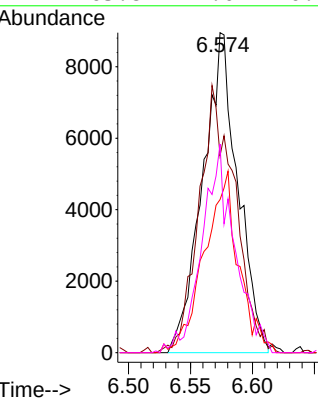
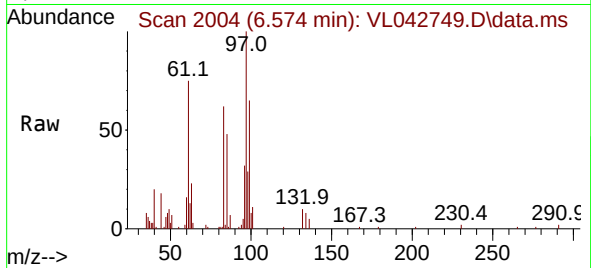
99 63.8 47.0 70.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#48

Dibromochloromethane

Concen: 0.965 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. -0.003 min

Lab File: VL042749.D

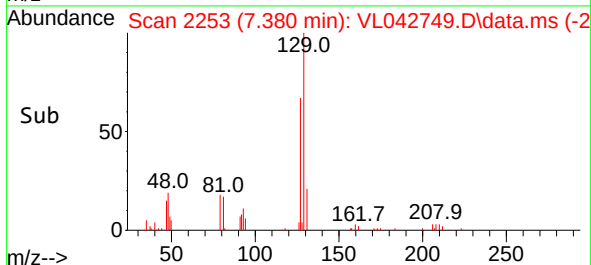
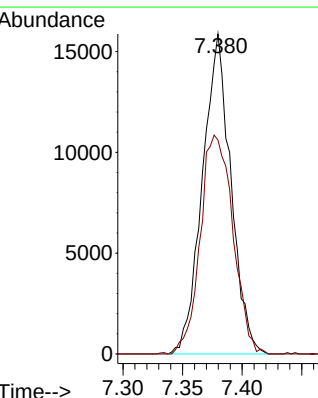
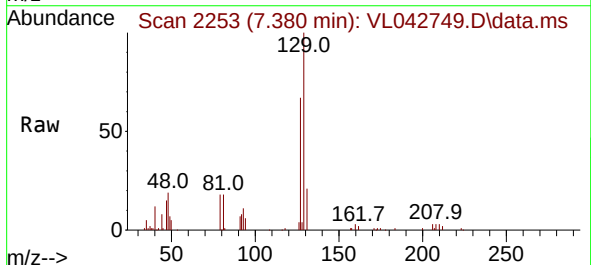
Acq: 23 Jul 2025 10:08

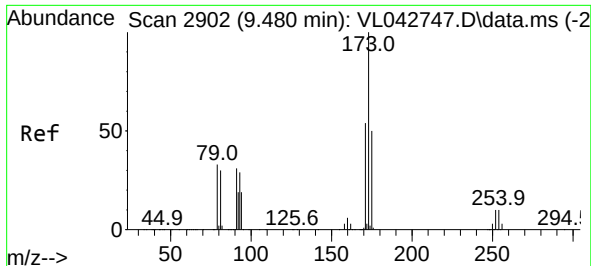
Tgt Ion:129 Resp: 26259

Ion Ratio Lower Upper

129 100

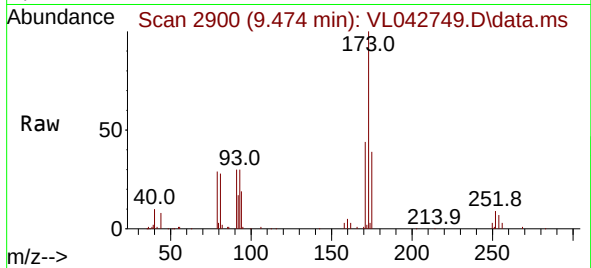
127 78.7 38.7 116.1





#49
Bromoform
Concen: 0.973 ppbv
RT: 9.474 min Scan# 2902
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

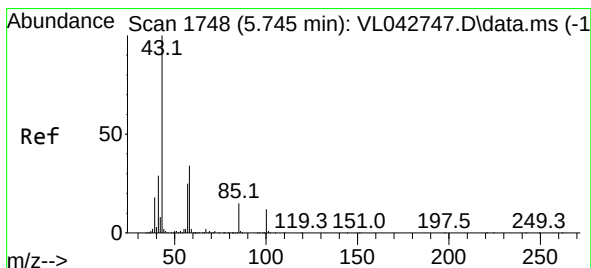
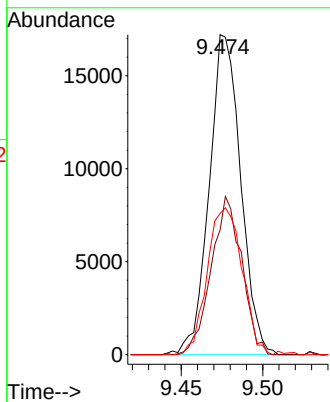
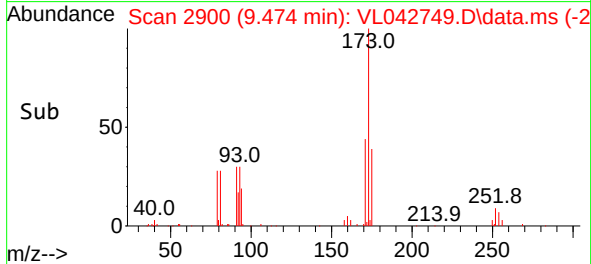
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion:173 Resp: 2308
Ion Ratio Lower Upper
173 100
175 48.0 38.4 57.6
171 51.3 40.9 61.3

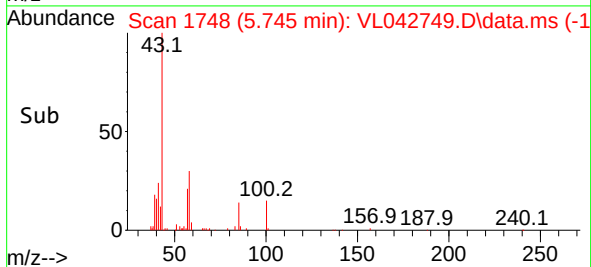
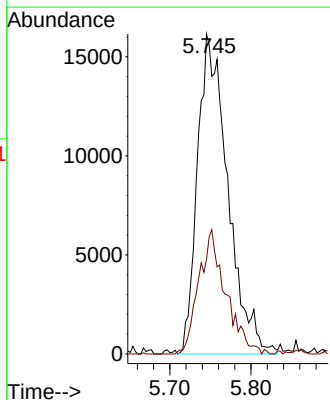
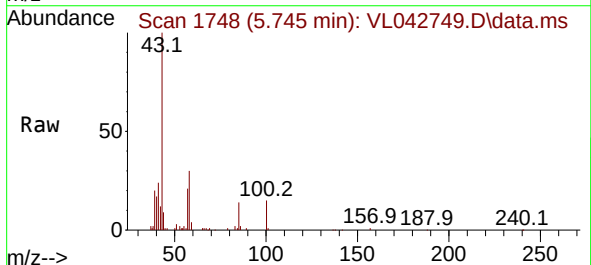
Manual Integrations
APPROVED

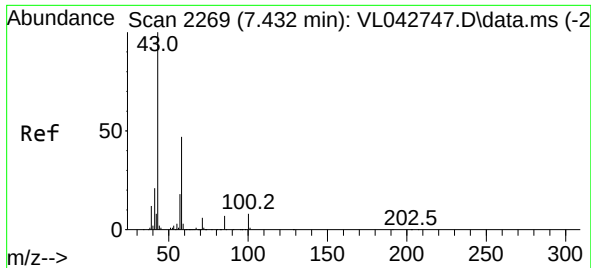
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#50
4-Methyl-2-Pentanone
Concen: 1.006 ppbv m
RT: 5.745 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

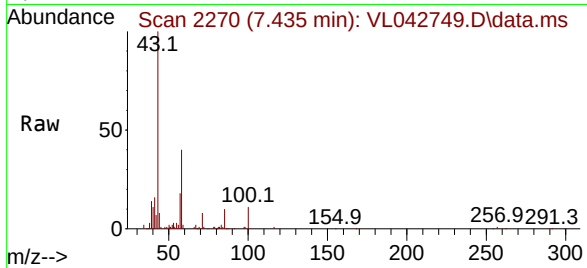
Tgt Ion: 43 Resp: 41715
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#





#51
2-Hexanone
Concen: 0.939 ppbv
RT: 7.435 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

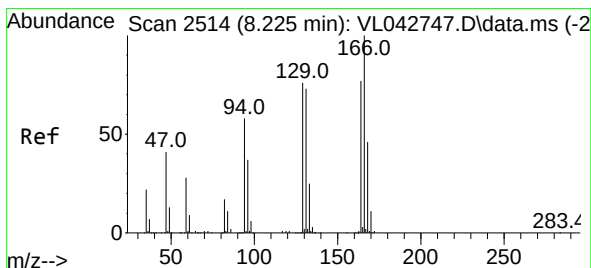
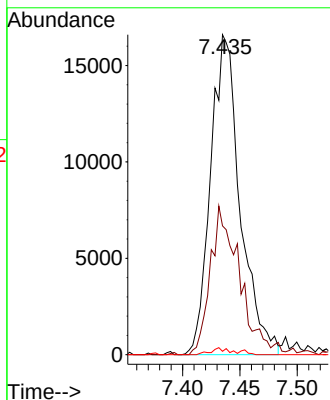
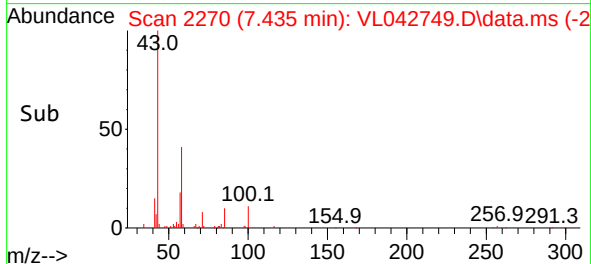
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 43 Resp: 2976
Ion Ratio Lower Upper
43 100
58 47.5 38.0 57.0
98 1.6 0.2 0.4

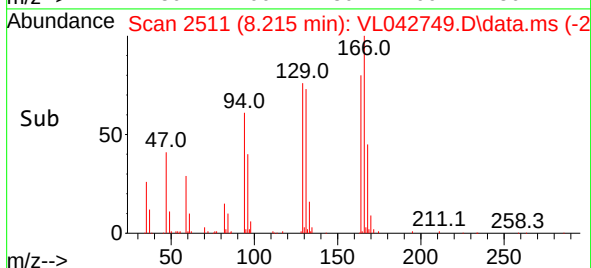
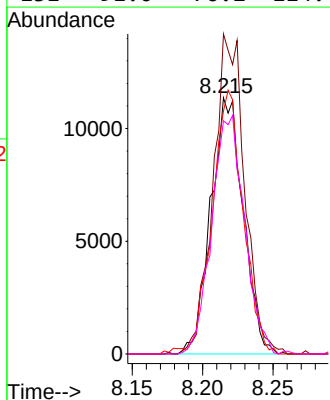
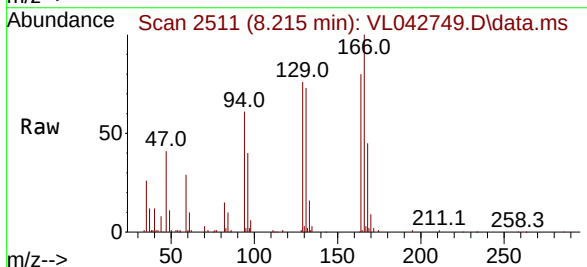
Manual Integrations
APPROVED

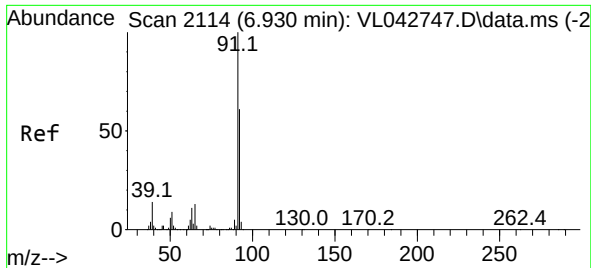
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#52
Tetrachloroethene
Concen: 1.001 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:164 Resp: 18131
Ion Ratio Lower Upper
164 100
166 124.9 104.0 156.0
129 94.8 79.2 118.8
131 91.0 76.2 114.4





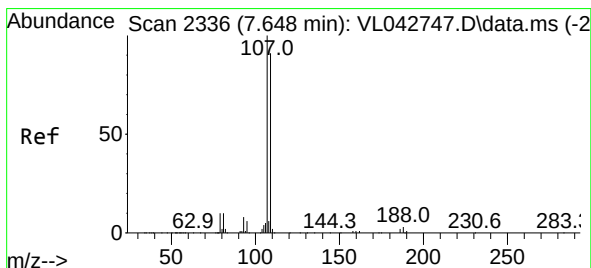
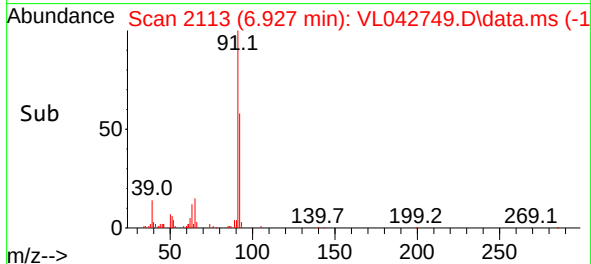
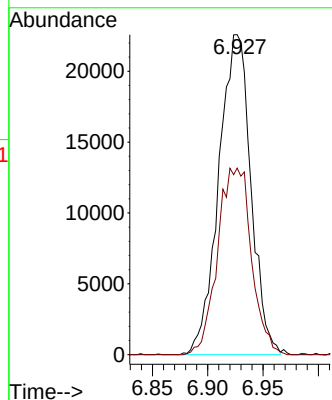
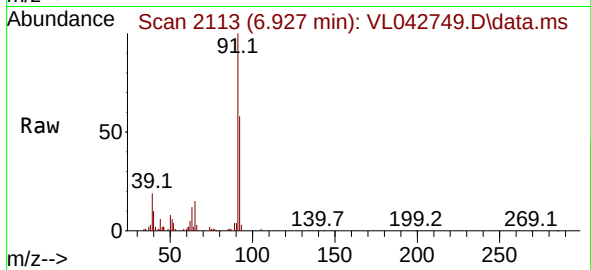
#53
Toluene
Concen: 0.976 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 4564
Ion Ratio Lower Upper
91 100
92 61.5 48.0 72.0

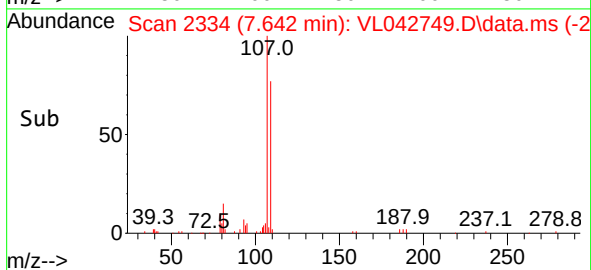
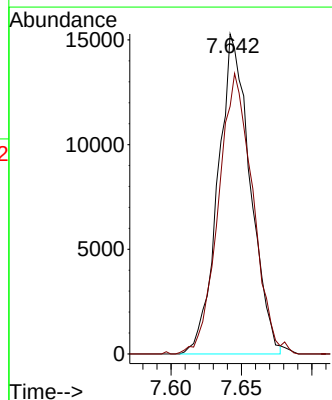
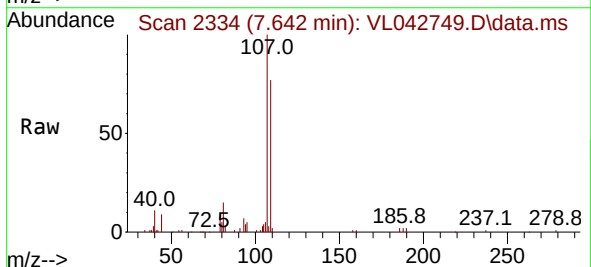
Manual Integrations
APPROVED

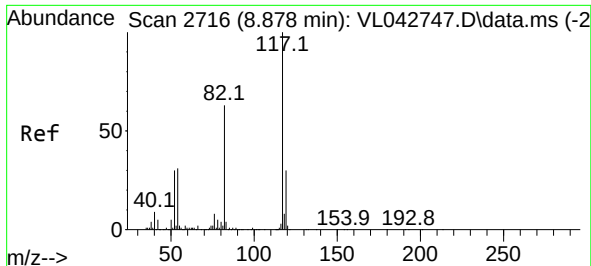
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#54
1,2-Dibromoethane
Concen: 1.007 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:107 Resp: 24427
Ion Ratio Lower Upper
107 100
109 76.9 72.7 109.1





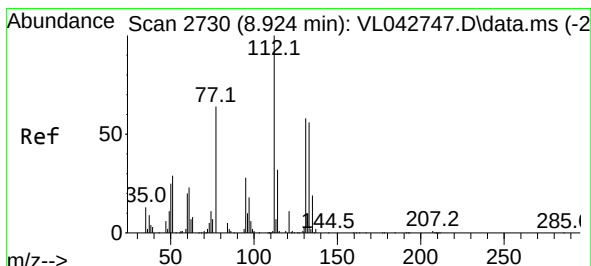
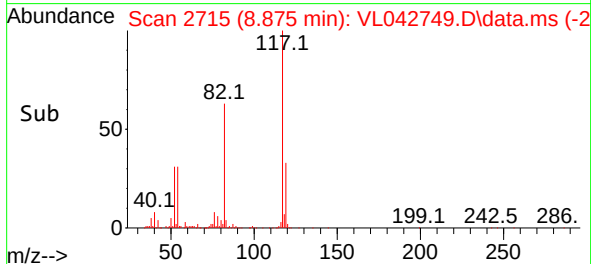
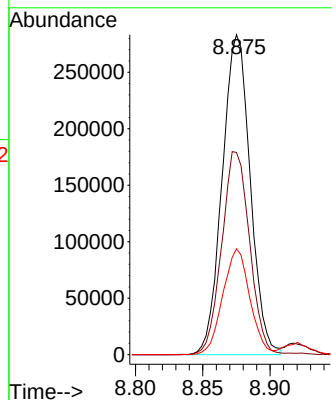
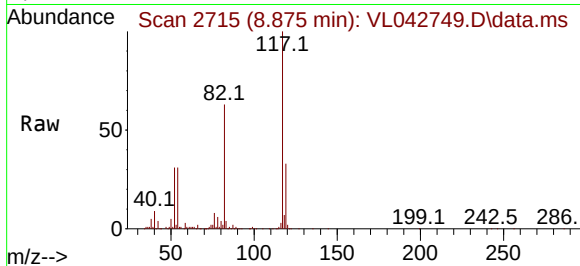
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 410018
Ion Ratio Lower Upper
117 100
82 63.5 53.3 79.9
119 32.0 25.8 38.6

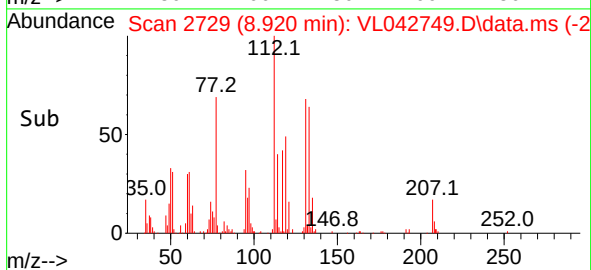
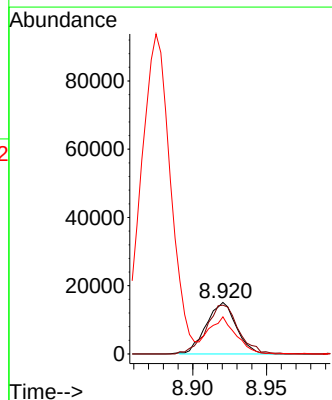
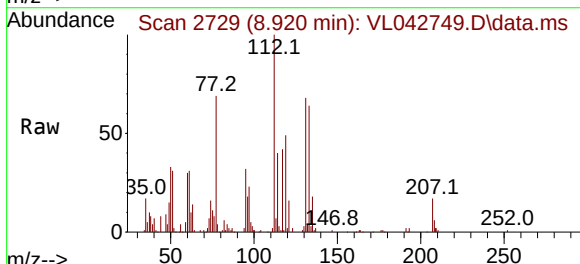
Manual Integrations
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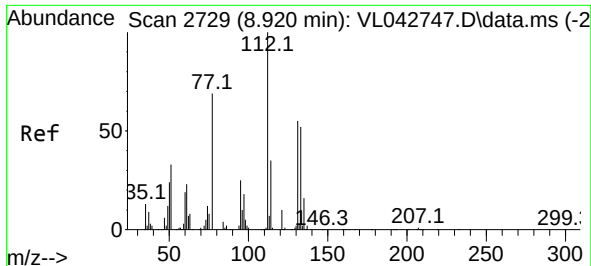
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 1.000 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

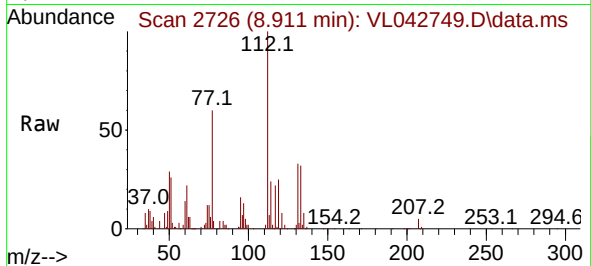
Tgt Ion:131 Resp: 21319
Ion Ratio Lower Upper
131 100
133 102.0 76.8 115.2
119 58.6 49.7 74.5





#57
Chlorobenzene
Concen: 1.053 ppbv
RT: 8.911 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

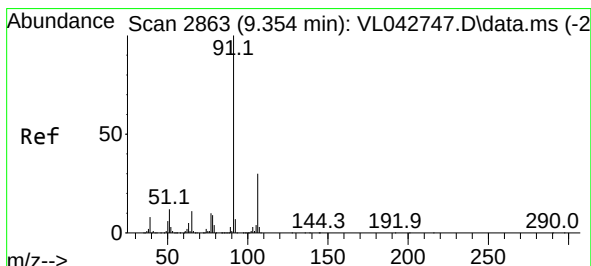
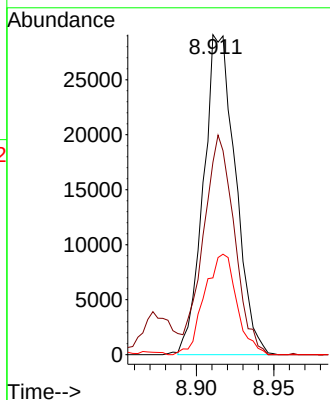
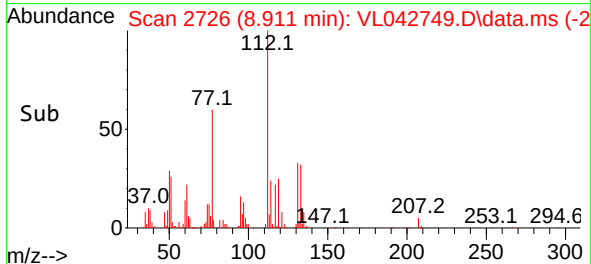
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion:112 Resp: 41788
Ion Ratio Lower Upper
112 100
77 60.1 56.4 84.6
114 24.0 31.2 38.2

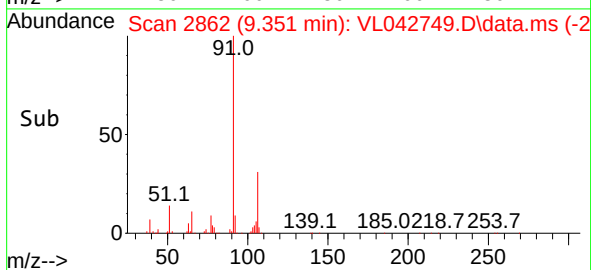
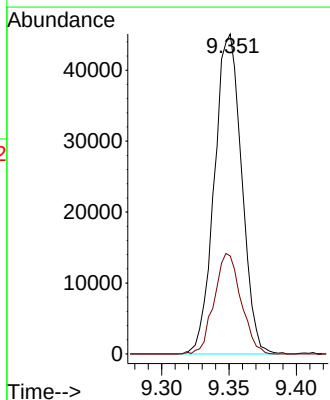
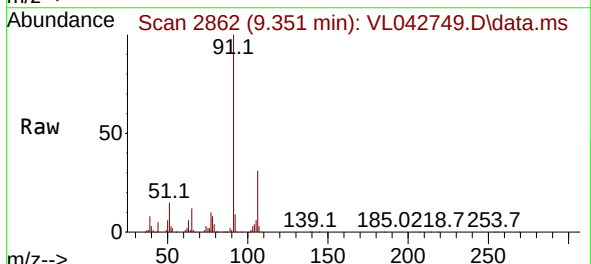
Manual Integrations
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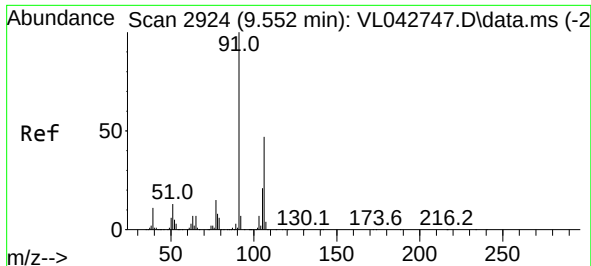
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#58
Ethyl Benzene
Concen: 0.980 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 63467
Ion Ratio Lower Upper
91 100
106 30.6 23.8 35.6





#59

m/p-Xylene

Concen: 2.020 ppbv m

RT: 9.545 min Scan# 2924

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 10454

Ion Ratio Lower Upper

91 100

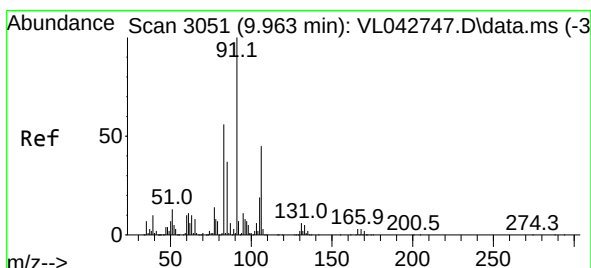
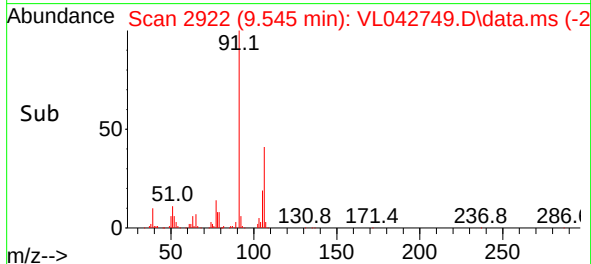
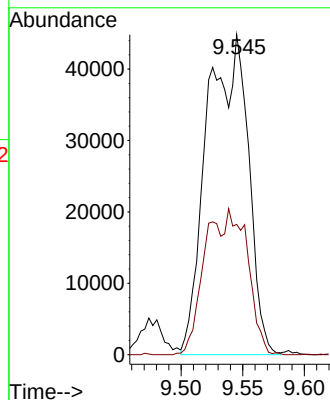
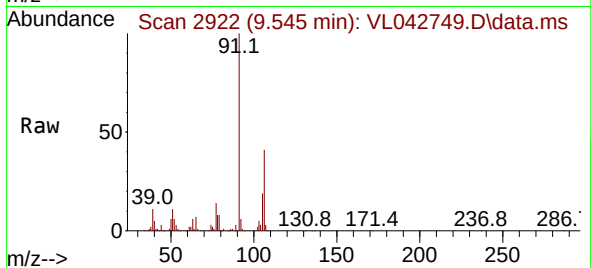
106 46.9 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#60

o-Xylene

Concen: 1.015 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042749.D

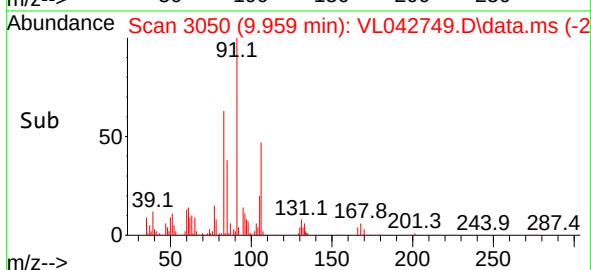
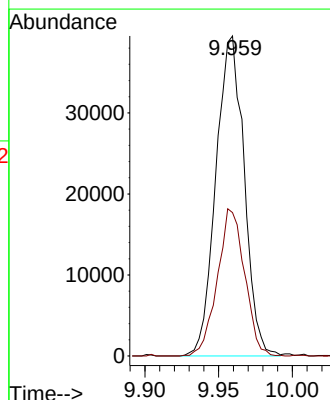
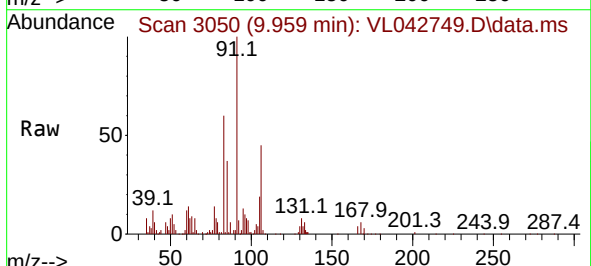
Acq: 23 Jul 2025 10:08

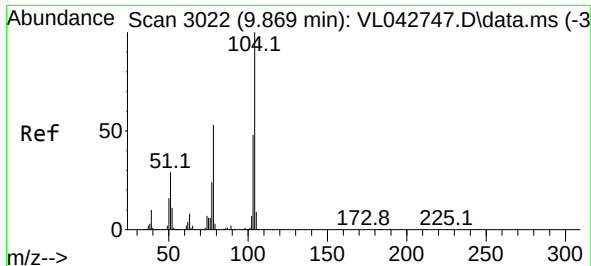
Tgt Ion: 91 Resp: 52499

Ion Ratio Lower Upper

91 100

106 44.6 22.0 66.0





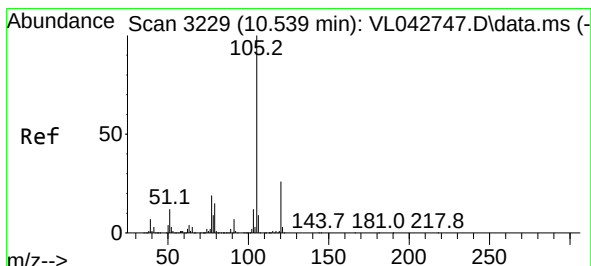
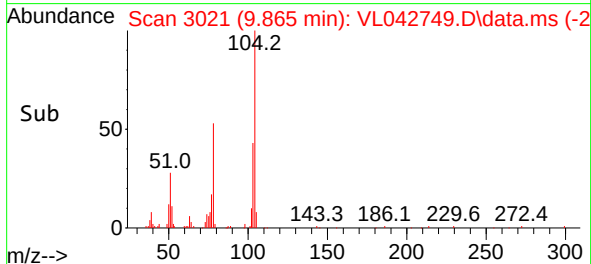
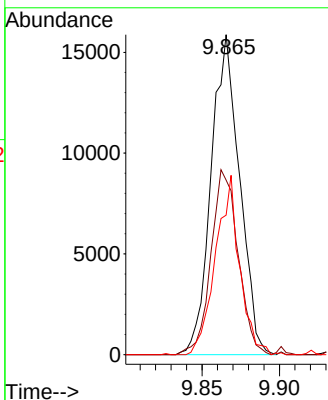
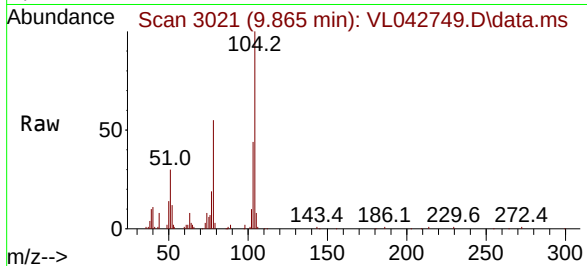
#61
Styrene
Concen: 0.934 ppbv
RT: 9.865 min Scan# 3022
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:104 Resp: 2031
Ion Ratio Lower Upper
104 100
78 55.7 41.5 62.3
103 47.2 37.5 56.3

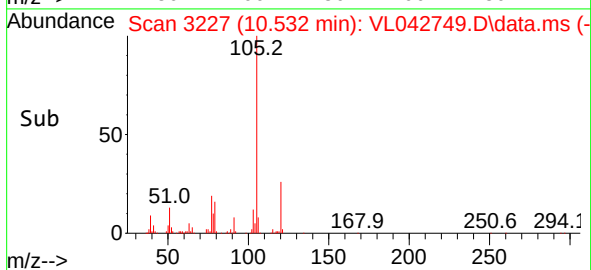
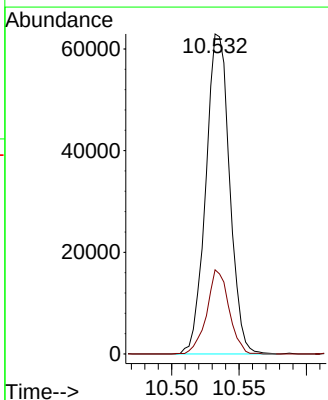
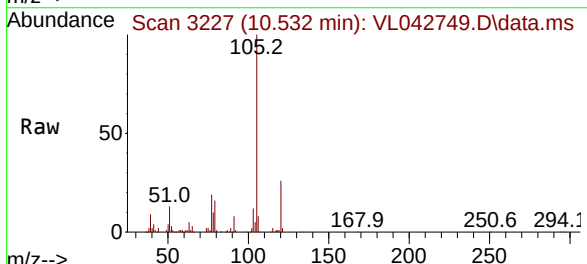
Manual Integrations
APPROVED

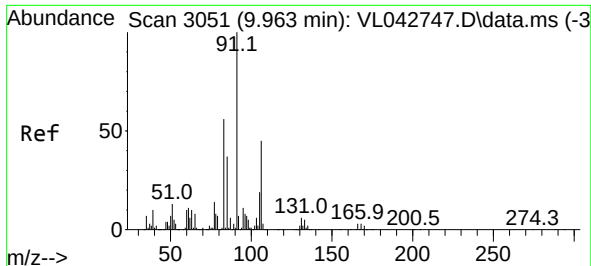
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#62
Isopropylbenzene
Concen: 1.013 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

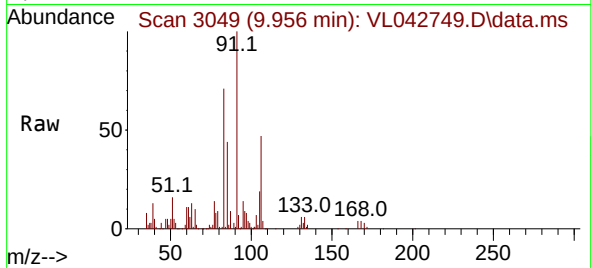
Tgt Ion:105 Resp: 77278
Ion Ratio Lower Upper
105 100
120 24.6 20.5 30.7





#63
1,1,2,2-Tetrachloroethane
Concen: 0.967 ppbv
RT: 9.956 min Scan# 3051
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

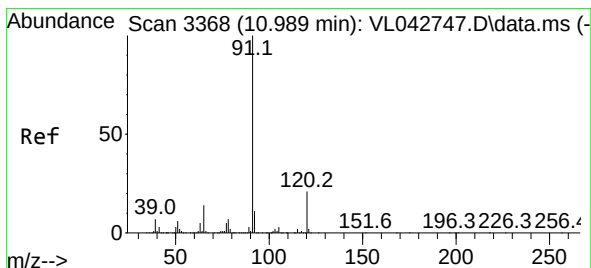
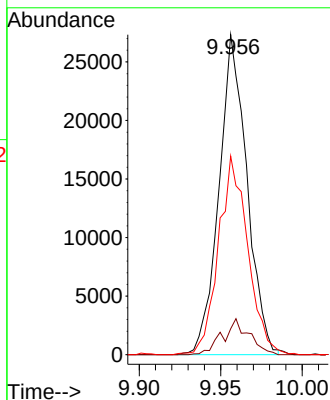
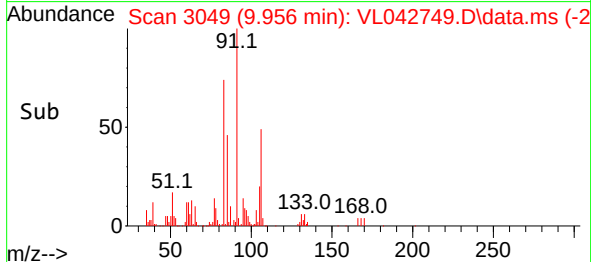
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



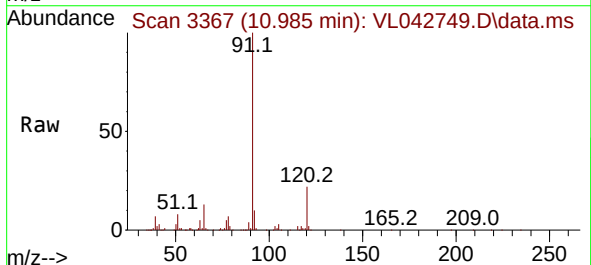
Tgt Ion: 83 Resp: 3259
Ion Ratio Lower Upper
83 100
131 10.6 5.0 15.0
85 65.1 32.6 97.7

Manual Integrations
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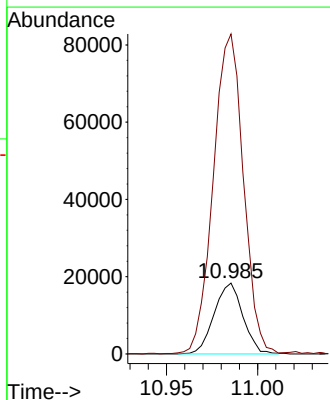
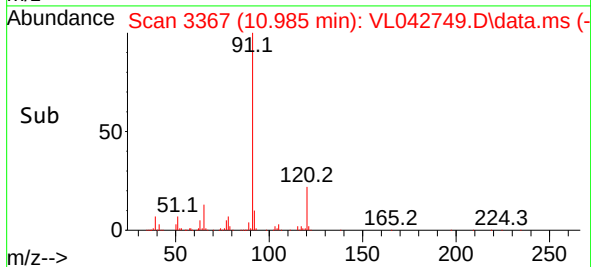
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

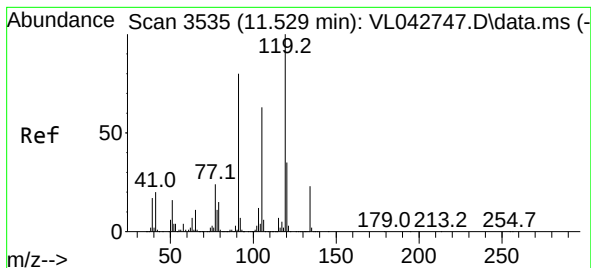


#64
n-propylbenzene
Concen: 1.009 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08



Tgt Ion:120 Resp: 20073
Ion Ratio Lower Upper
120 100
91 478.1 372.7 559.1





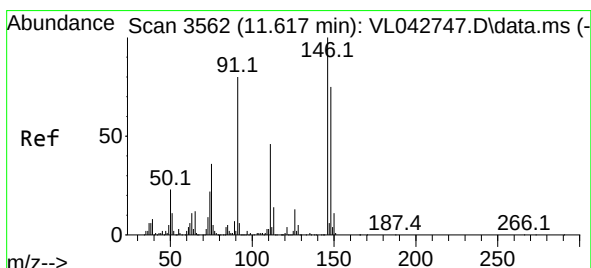
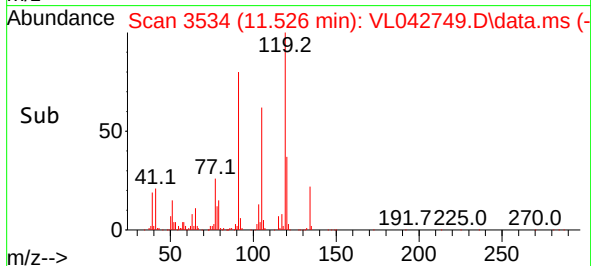
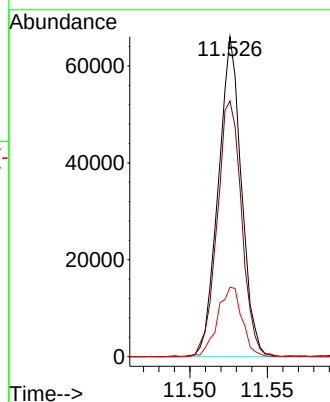
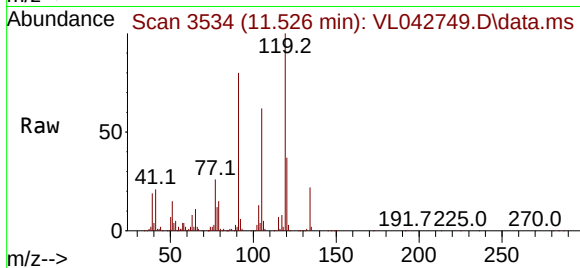
#65
tert-Butylbenzene
Concen: 1.010 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument : MSVOA_L
ClientSampleId : VSTDIC001

Tgt Ion: 119 Resp: 68428
Ion Ratio Lower Upper
119 100
91 85.1 64.0 96.0
134 23.1 17.3 25.9

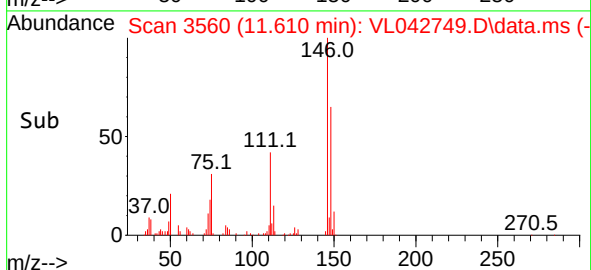
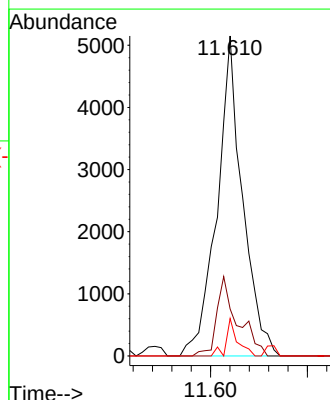
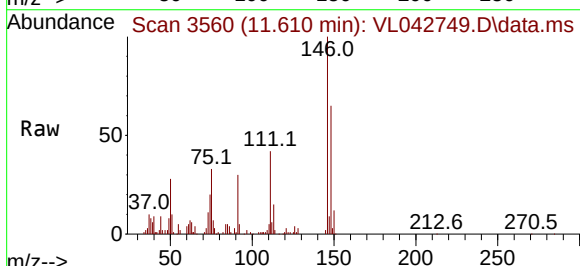
Manual Integrations
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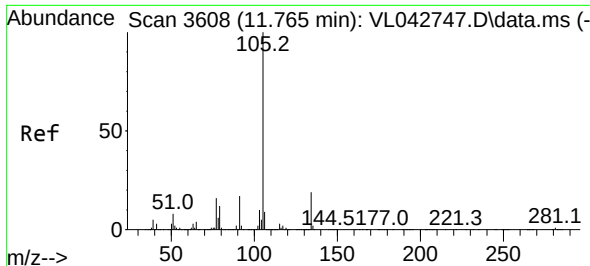
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#66
Benzyl Chloride
Concen: 0.845 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

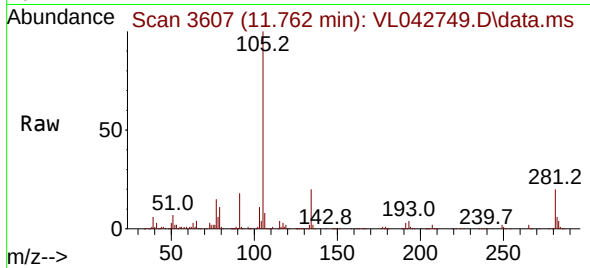
Tgt Ion: 91 Resp: 4700
Ion Ratio Lower Upper
91 100
126 20.3 14.4 21.6
128 6.5 5.2 7.8





#67
 sec-Butylbenzene
 Concen: 1.053 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

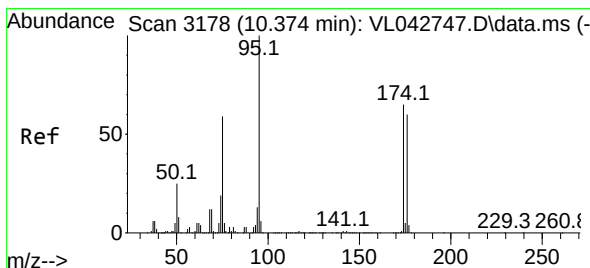
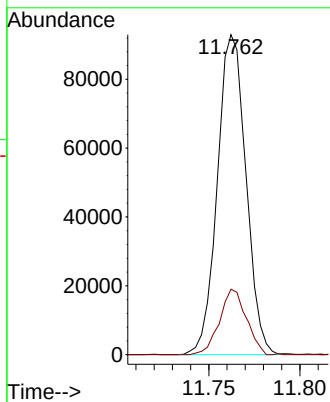
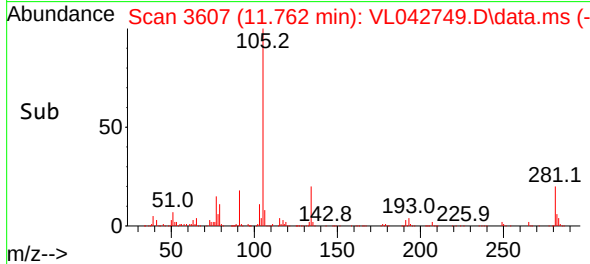
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 105 Resp: 101458
 Ion Ratio Lower Upper
 105 100
 134 19.1 15.5 23.3

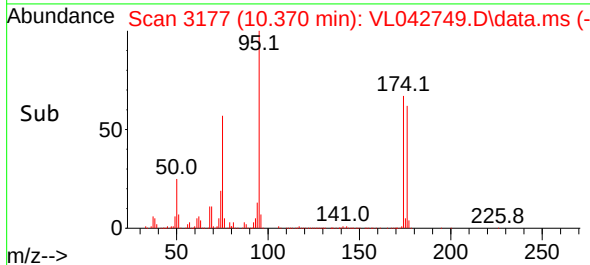
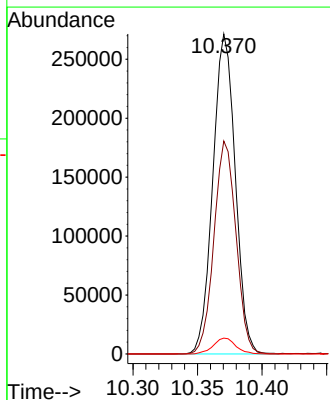
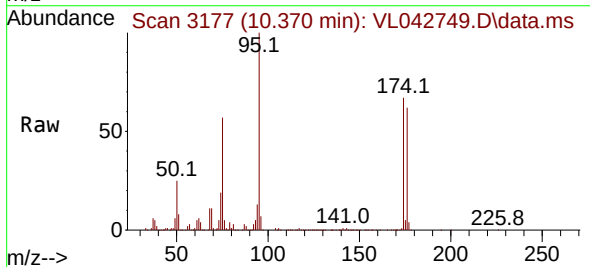
Manual Integrations
 APPROVED

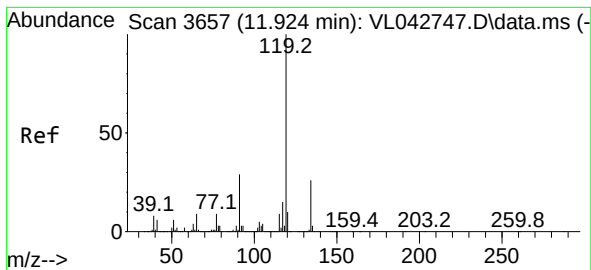
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.091 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 95 Resp: 327673
 Ion Ratio Lower Upper
 95 100
 174 65.4 53.8 80.6
 175 5.0 4.0 6.0





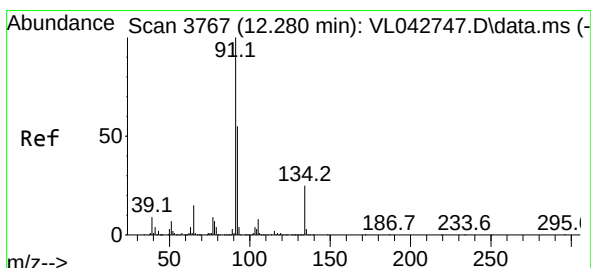
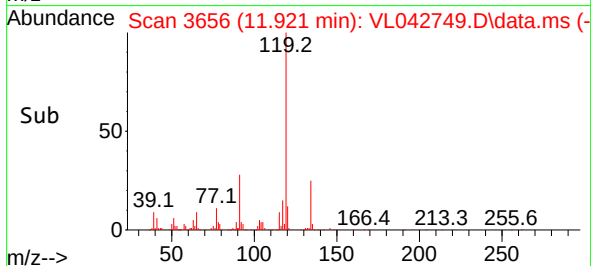
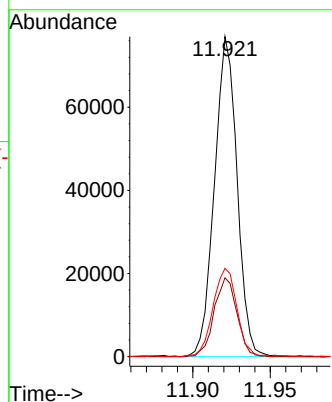
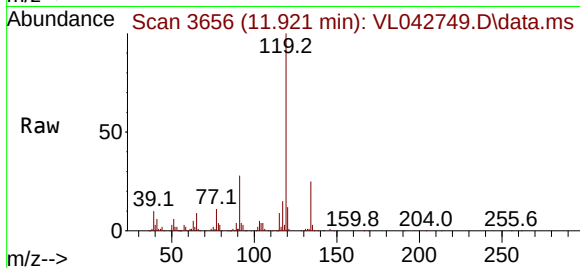
#69
p-Isopropyltoluene
Concen: 0.995 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 119 Resp: 78180
Ion Ratio Lower Upper
119 100
134 24.8 20.6 31.0
91 29.8 23.2 34.8

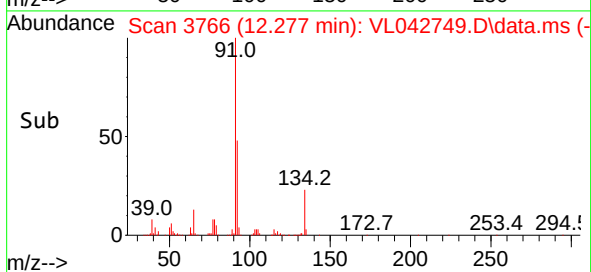
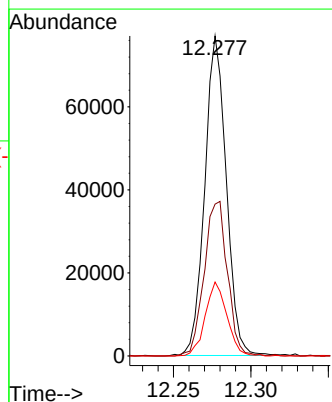
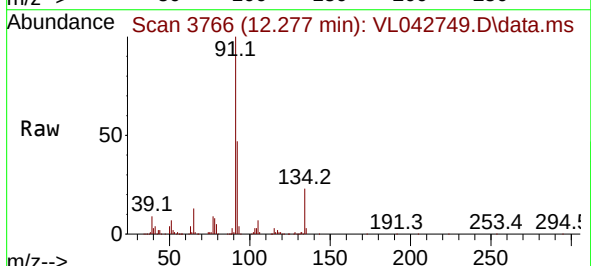
Manual Integrations
APPROVED

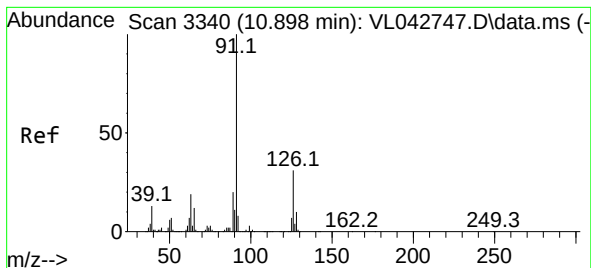
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#70
n-Butylbenzene
Concen: 0.978 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 74257
Ion Ratio Lower Upper
91 100
92 52.4 43.4 65.2
134 23.4 19.6 29.4





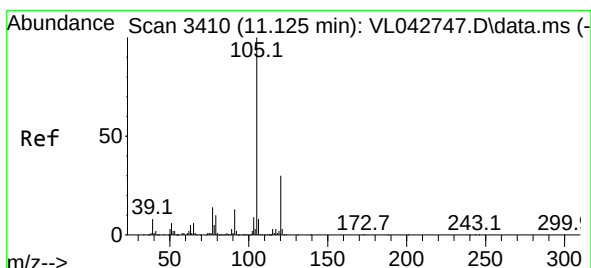
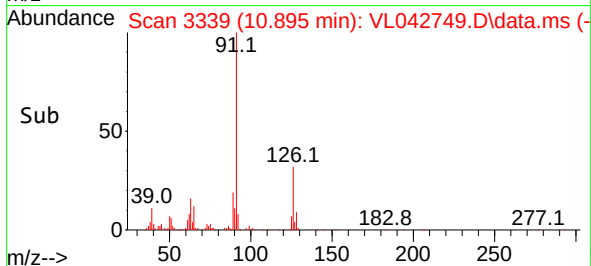
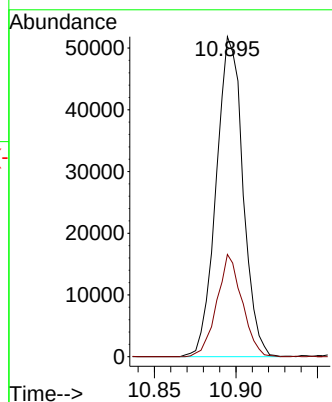
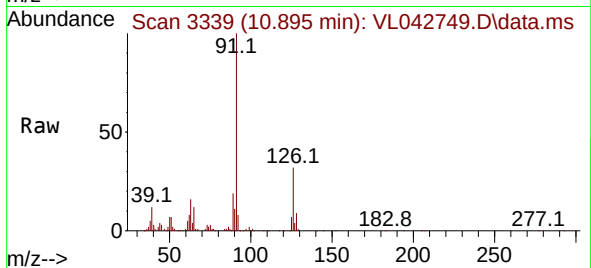
#71
2-Chlorotoluene
Concen: 1.012 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 5919
Ion Ratio Lower Upper
91 100
126 30.1 12.0 48.2

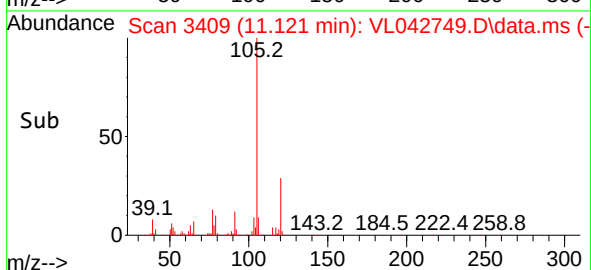
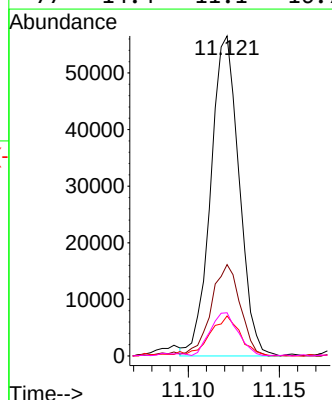
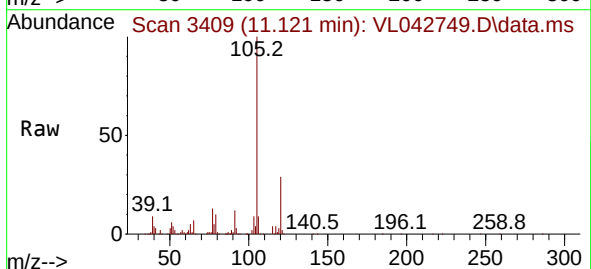
Manual Integrations
APPROVED

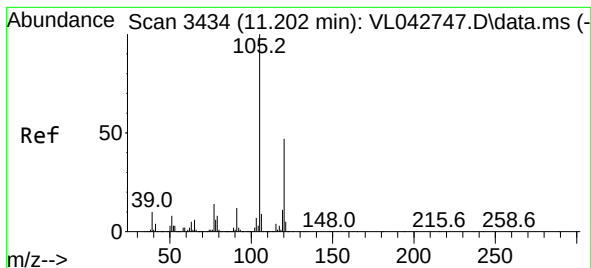
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#72
4-Ethyltoluene
Concen: 0.991 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 61199
Ion Ratio Lower Upper
105 100
120 30.2 24.4 36.6
91 14.2 10.6 15.8
77 14.4 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.962 ppbv

RT: 11.199 min Scan# 3434

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 4890

Ion Ratio Lower Upper

105 100

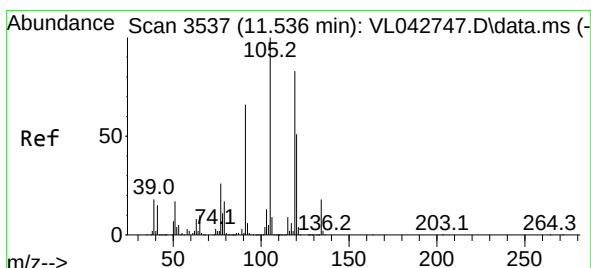
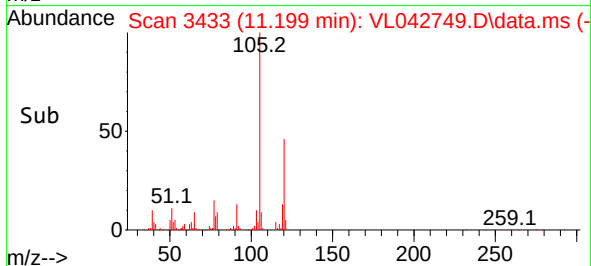
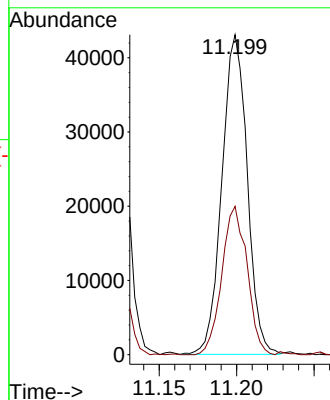
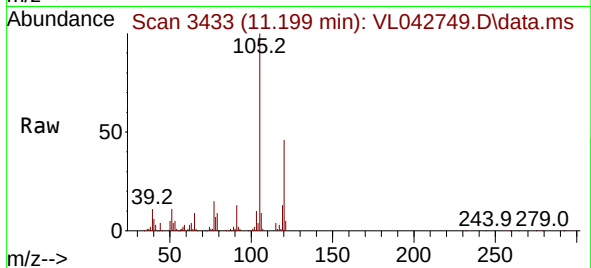
120 46.4 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.994 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 55153

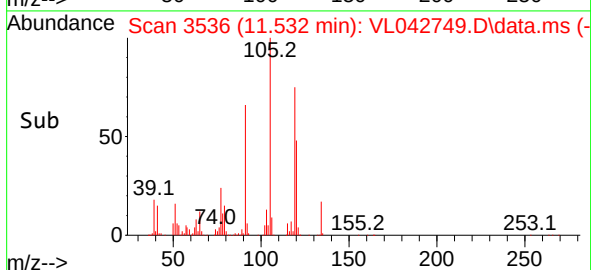
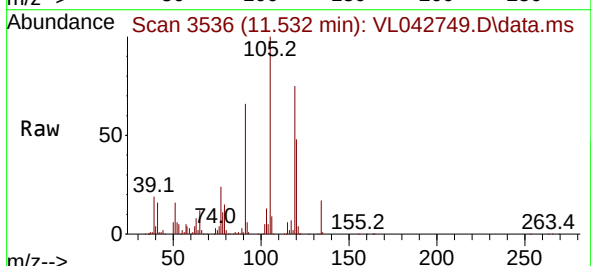
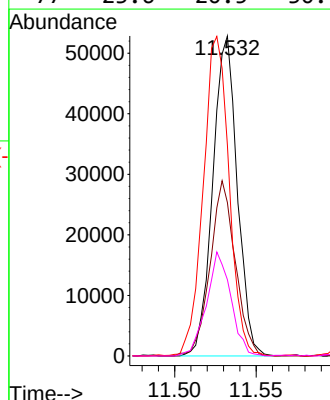
Ion Ratio Lower Upper

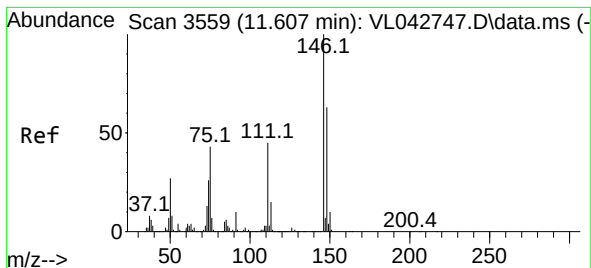
105 100

120 48.0 40.8 61.2

91 65.8 53.0 79.4

77 23.6 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 1.022 ppbv

RT: 11.600 min Scan# 3559

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

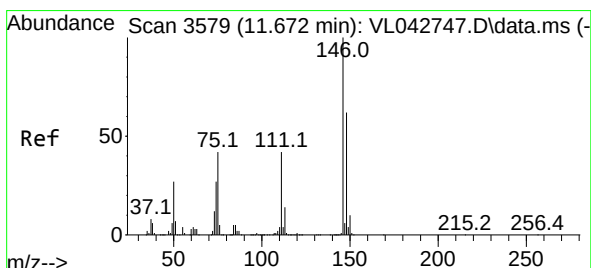
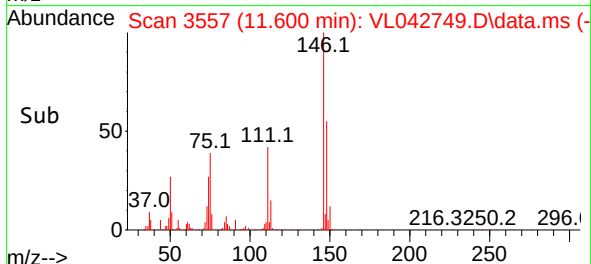
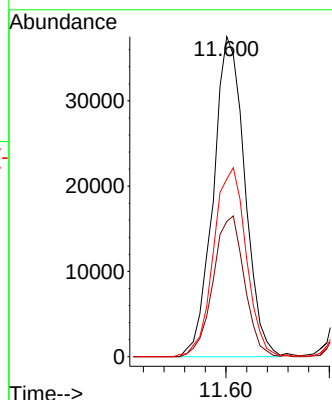
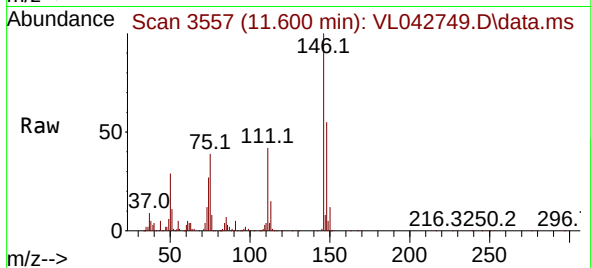
VSTDIC001

Tgt Ion:	146	Resp:	3975
Ion Ratio	Lower	Upper	
146	100		
111	43.6	22.7	68.0
148	61.0	31.9	95.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#76

1,4-Dichlorobenzene

Concen: 0.999 ppbv

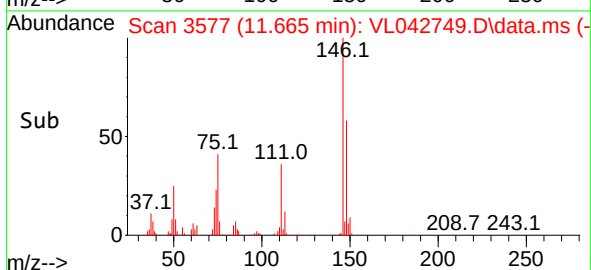
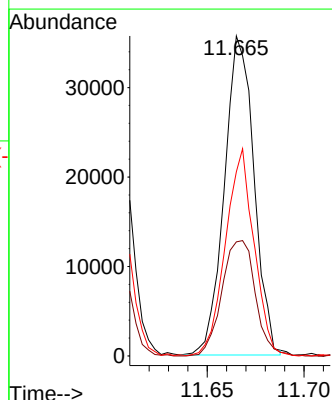
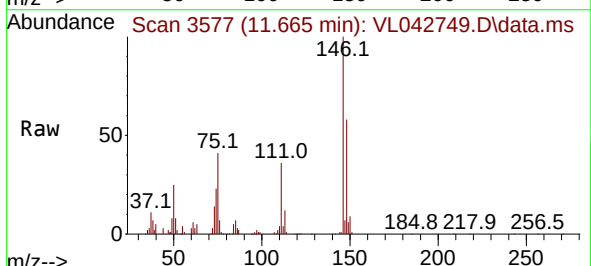
RT: 11.665 min Scan# 3577

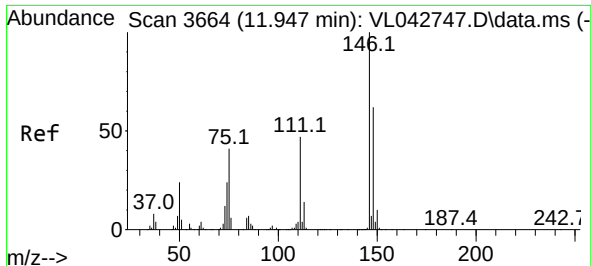
Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

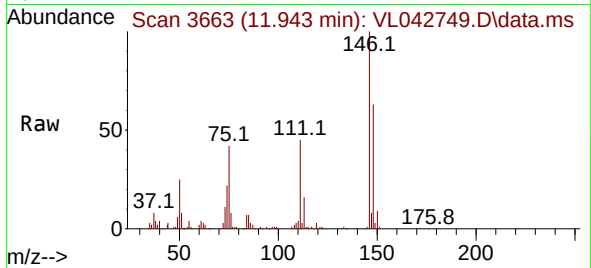
Tgt Ion:	146	Resp:	38018
Ion Ratio	Lower	Upper	
146	100		
111	40.8	21.4	64.2
148	63.1	32.1	96.3





#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.943 min Scan# 30
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

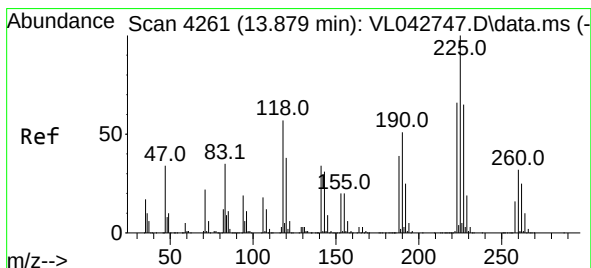
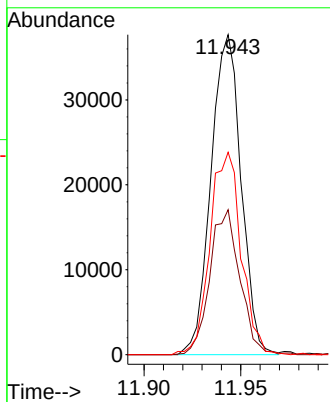
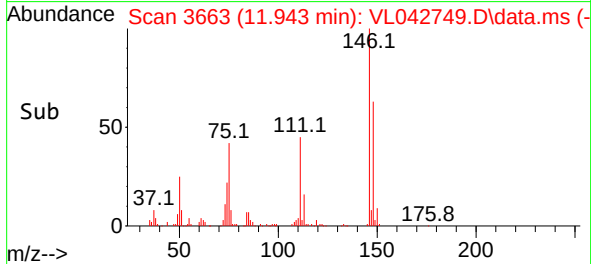
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



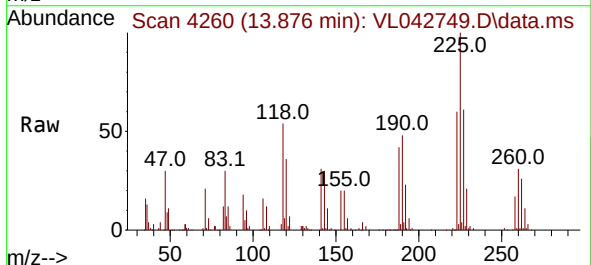
Tgt Ion:146 Resp: 4083
Ion Ratio Lower Upper
146 100
111 45.3 23.7 71.1
148 65.5 32.6 97.7

Manual Integrations
APPROVED

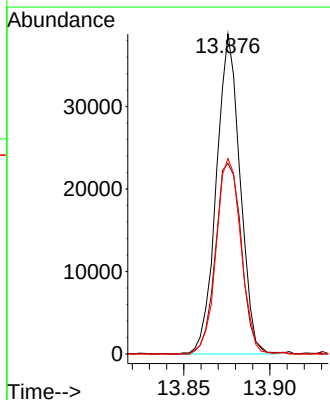
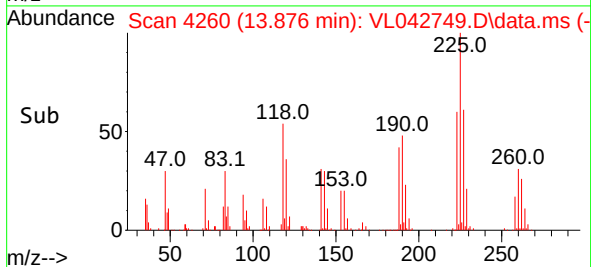
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

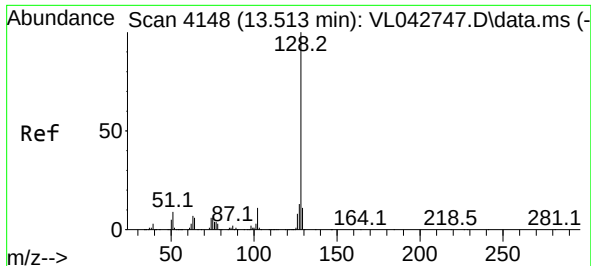


#78
Hexachloro-1,3-Butadiene
Concen: 1.076 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08



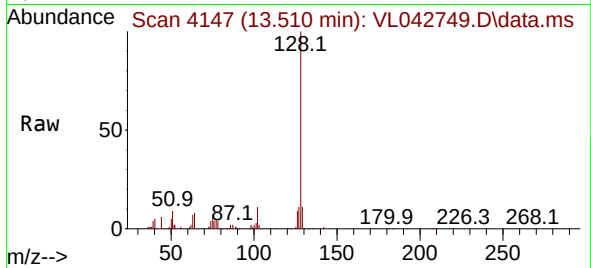
Tgt Ion:225 Resp: 37228
Ion Ratio Lower Upper
225 100
223 65.2 50.7 76.1
227 63.9 50.5 75.7





#79
Naphthalene
Concen: 0.907 ppbv
RT: 13.510 min Scan# 4148
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

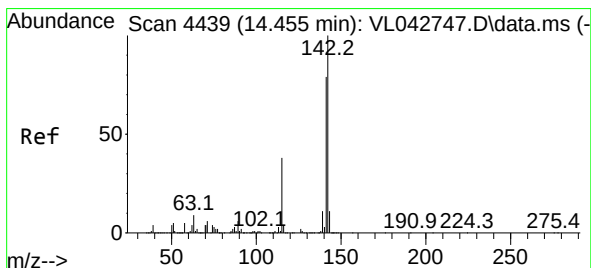
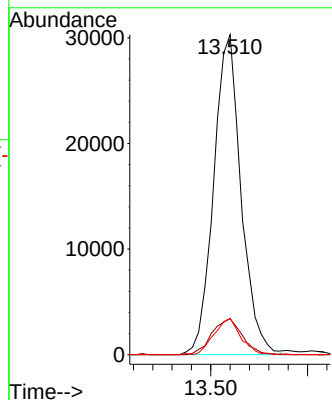
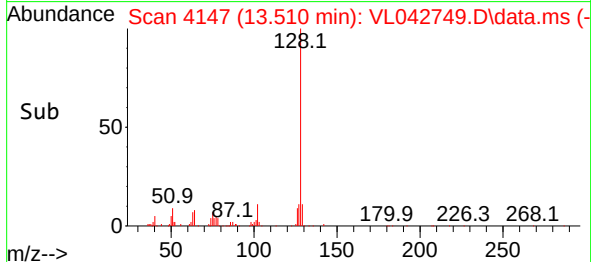
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion:128 Resp: 29792
Ion Ratio Lower Upper
128 100
127 11.3 10.5 15.7
129 11.4 8.6 13.0

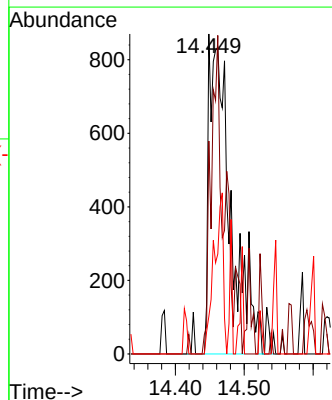
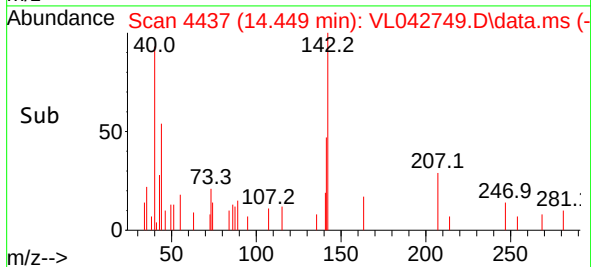
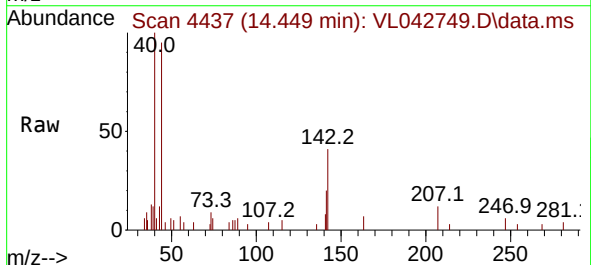
Manual Integrations
APPROVED

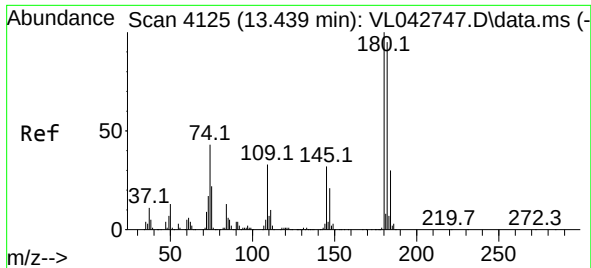
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#80
Naphthalene,2-methyl-
Concen: 1.184 ppbv
RT: 14.449 min Scan# 4437
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:142 Resp: 1950
Ion Ratio Lower Upper
142 100
141 63.5 65.8 98.8#
115 25.1 31.2 46.8#





#81

1,2,4-Trichlorobenzene

Concen: 1.053 ppbv

RT: 13.435 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion:180 Resp: 21929

Ion Ratio Lower Upper

180 100

182 96.7 76.2 114.2

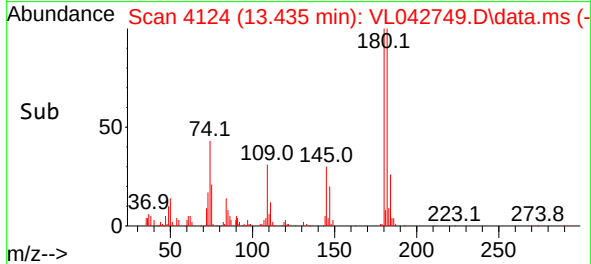
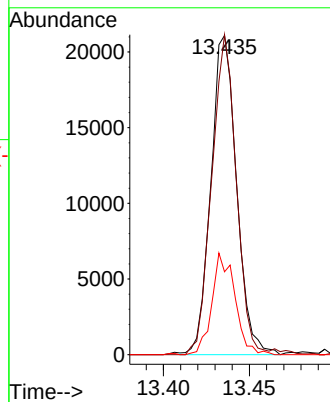
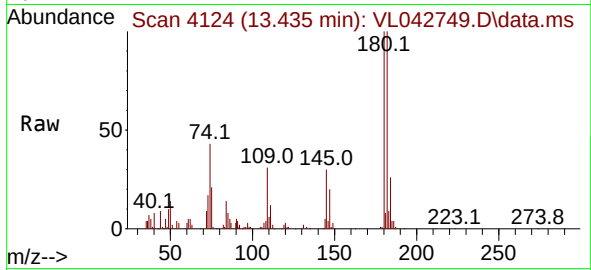
184 28.7 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042750.D
 Acq On : 23 Jul 2025 10:42
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:58:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	151256	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	446836	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	408626	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 319353 9.869 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	11099	0.555	ppbv	98
3) Chlorodifluoromethane	1.476	51	14291	0.549	ppbv	97
4) Chloromethane	1.531	50	4428	0.547	ppbv	96
5) Vinyl Chloride	1.580	62	3902	0.488	ppbv	97
6) Bromomethane	1.667	94	1717	0.556	ppbv #	38
7) Chloroethane	1.703	64	2102	0.681	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	8971	0.545	ppbv	97
9) Propene	1.483	41	4695	0.496	ppbv #	77
10) Heptane	4.978	43	13003m	0.511	ppbv	
11) Trichlorofluoromethane	1.878	101	11021	0.535	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.137	101	8430	0.538	ppbv	98
13) Ethanol	1.719	45	1066m	0.498	ppbv	
14) Bromoethene	1.781	108	2971	0.536	ppbv #	92
15) Acetone	1.836	43	14012	0.671	ppbv #	88
16) 1,3-Butadiene	1.609	39	5488	0.616	ppbv	100
17) tert-Butyl alcohol	2.040	59	10333	0.549	ppbv #	77
18) 1,1-Dichloroethene	2.033	96	4051	0.572	ppbv	77
19) Isopropyl Alcohol	1.888	45	6478	0.584	ppbv #	81
20) Methylene Chloride	2.059	84	4500	0.684	ppbv	82
21) Allyl Chloride	2.098	41	6829	0.531	ppbv #	80
22) trans-1,2-Dichloroethene	2.341	96	4186	0.551	ppbv	88
23) Vinyl Acetate	2.460	43	12423	0.491	ppbv #	76
24) 1,1-Dichloroethane	2.405	63	7962	0.509	ppbv #	91
25) Ethyl Acetate	2.836	43	23632	0.511	ppbv	97
26) Hexane	2.823	57	10019	0.494	ppbv	90
27) Carbon Disulfide	2.150	76	8670	0.499	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	4937	0.515	ppbv #	79
29) Chloroform	2.849	83	17100	0.546	ppbv #	82
30) Cyclohexane	3.855	84	8596	0.500	ppbv	89
31) cis-1,2-Dichloroethene	2.723	61	11032	0.529	ppbv	99
32) 1,1,1-Trichloroethane	3.367	97	16132	0.494	ppbv	97
34) 2-Butanone	2.557	43	16299	0.515	ppbv	94
35) Carbon Tetrachloride	3.761	117	15207	0.458	ppbv	90
36) Benzene	3.651	78	21800	0.515	ppbv	96
37) 1,2-Dichloroethane	3.215	62	13299	0.521	ppbv #	95
38) Trichloroethene	4.548	130	10097m	0.494	ppbv	
39) 1,2-Dichloropropane	4.312	63	8291	0.530	ppbv #	90
40) 1,4-Dioxane	4.606	88	3963m	0.538	ppbv	
41) Tetrahydrofuran	3.056	42	8064m	0.507	ppbv	
42) Bromodichloromethane	4.487	83	16080m	0.484	ppbv	
43) Methyl Methacrylate	4.881	69	7162m	0.476	ppbv	
44) 2,2,4-Trimethylpentane	4.639	57	33853	0.490	ppbv	93
45) t-1,3-Dichloropropene	6.412	75	7968m	0.472	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042750.D
 Acq On : 23 Jul 2025 10:42
 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 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:58:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

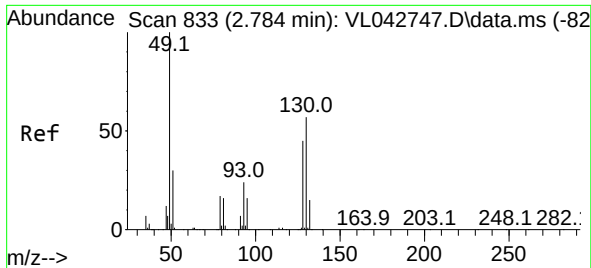
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	9709m	0.454	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	8782m	0.527	ppbv	
48) Dibromochloromethane	7.383	129	12723m	0.481	ppbv	
49) Bromoform	9.481	173	10801	0.468	ppbv	97
50) 4-Methyl-2-Pentanone	5.768	43	19575m	0.486	ppbv	
51) 2-Hexanone	7.448	43	12813m	0.416	ppbv	
52) Tetrachloroethene	8.218	164	8359	0.475	ppbv #	81
53) Toluene	6.924	91	21324	0.469	ppbv	95
54) 1,2-Dibromoethane	7.649	107	12294m	0.521	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.924	131	11191	0.527	ppbv #	1
57) Chlorobenzene	8.921	112	20828	0.527	ppbv #	84
58) Ethyl Benzene	9.354	91	29134	0.451	ppbv	96
59) m/p-Xylene	9.549	91	47028m	0.912	ppbv	
60) o-Xylene	9.963	91	23603	0.458	ppbv	100
61) Styrene	9.872	104	9195	0.424	ppbv	97
62) Isopropylbenzene	10.539	105	35189	0.463	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.956	83	15544	0.463	ppbv	99
64) n-propylbenzene	10.989	120	8924	0.450	ppbv	99
65) tert-Butylbenzene	11.529	119	30560	0.453	ppbv	95
66) Benzyl Chloride	11.617	91	2336m	0.421	ppbv	
67) sec-Butylbenzene	11.766	105	44169	0.460	ppbv	100
69) p-Isopropyltoluene	11.924	119	33104	0.423	ppbv	99
70) n-Butylbenzene	12.280	91	29048	0.384	ppbv	99
71) 2-Chlorotoluene	10.902	91	27184	0.466	ppbv	97
72) 4-Ethyltoluene	11.125	105	26395	0.429	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.206	105	22392	0.442	ppbv #	85
74) 1,2,4-Trimethylbenzene	11.536	105	22772	0.412	ppbv	96
75) 1,3-Dichlorobenzene	11.607	146	18680	0.482	ppbv	96
76) 1,4-Dichlorobenzene	11.669	146	17616	0.465	ppbv	97
77) 1,2-Dichlorobenzene	11.947	146	18799	0.494	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	18330	0.532	ppbv	99
79) Naphthalene	13.514	128	9916	0.592	ppbv	97
80) Naphthalene,2-methyl-	14.481	142	731	1.148	ppbv #	61
81) 1,2,4-Trichlorobenzene	13.436	180	7453	0.645	ppbv	95

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



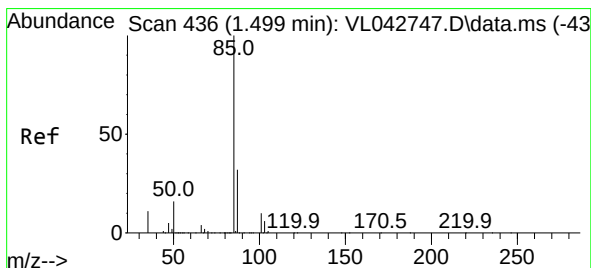
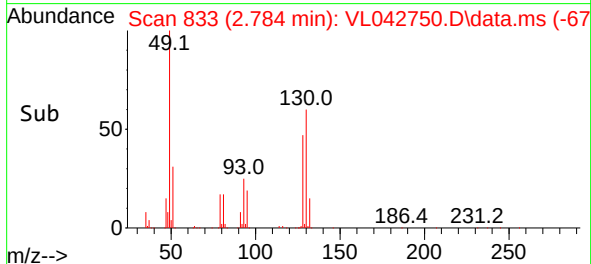
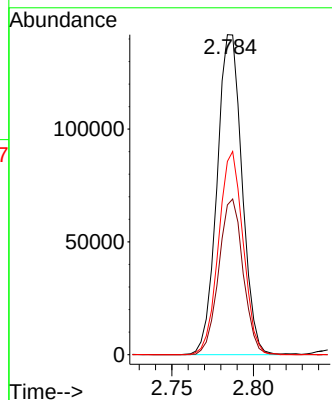
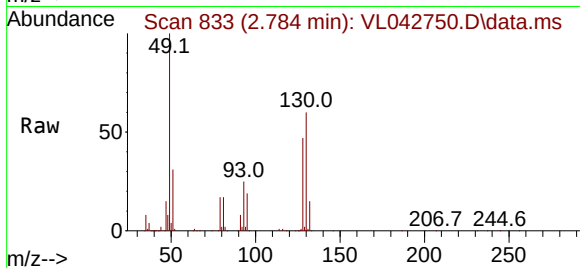
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 49 Resp: 151250
Ion Ratio Lower Upper
49 100
128 47.4 23.6 71.0
130 62.2 30.3 90.8

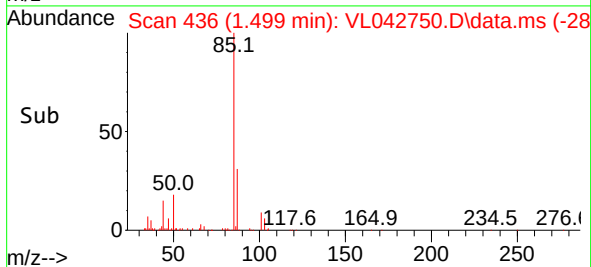
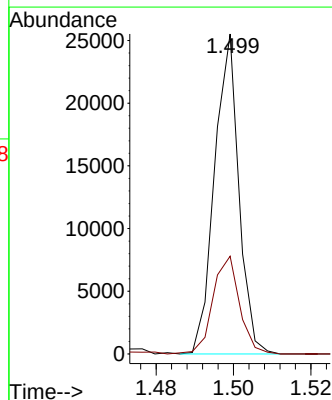
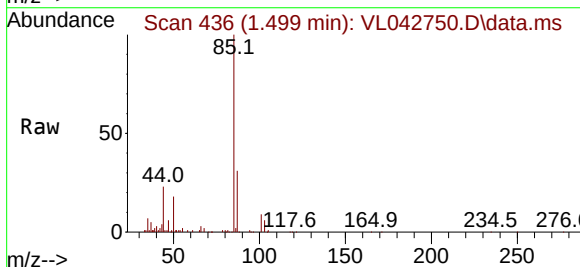
Manual Integrations
APPROVED

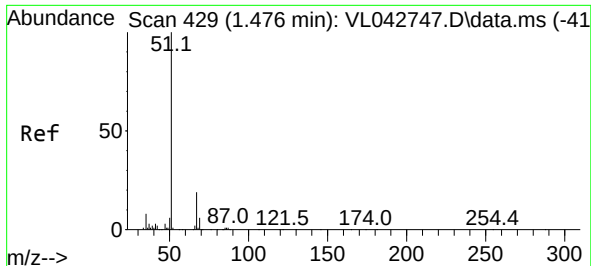
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#2
Dichlorodifluoromethane
Concen: 0.555 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

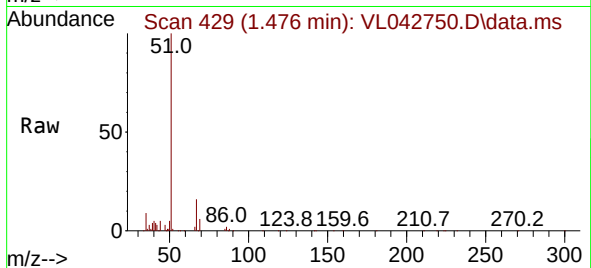
Tgt Ion: 85 Resp: 11099
Ion Ratio Lower Upper
85 100
87 30.6 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.549 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

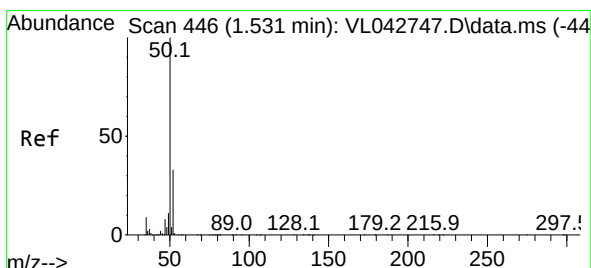
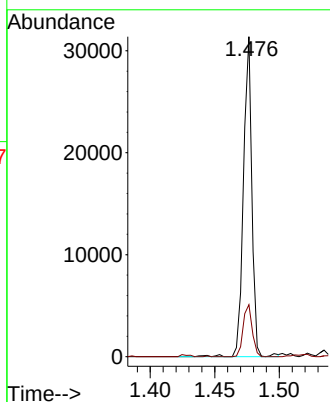
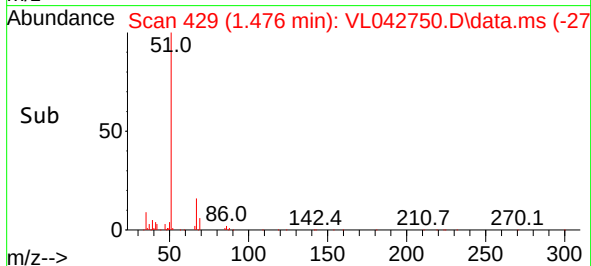
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



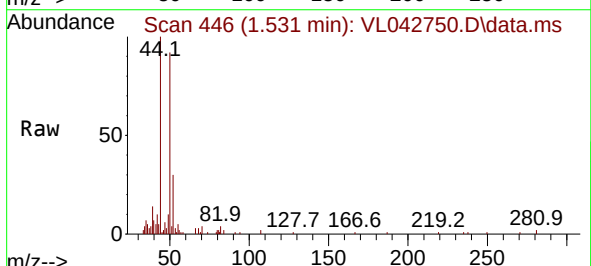
Tgt Ion: 51 Resp: 1429
Ion Ratio Lower Upper
51 100
67 17.4 15.0 22.6

Manual Integrations
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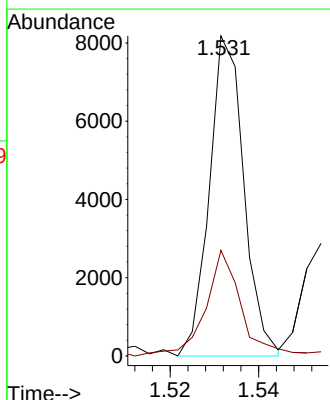
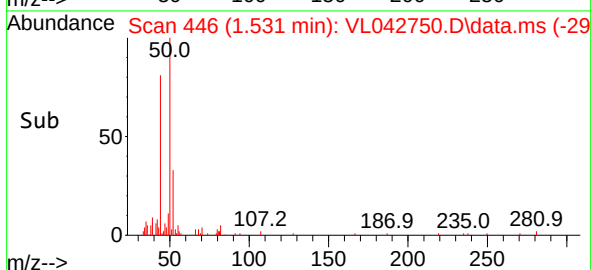
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

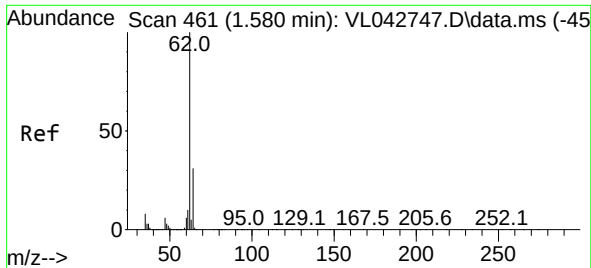


#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



Tgt Ion: 50 Resp: 4428
Ion Ratio Lower Upper
50 100
52 30.8 26.6 40.0





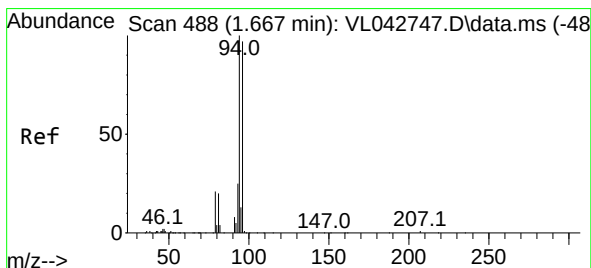
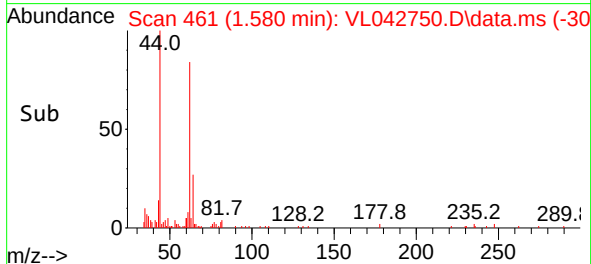
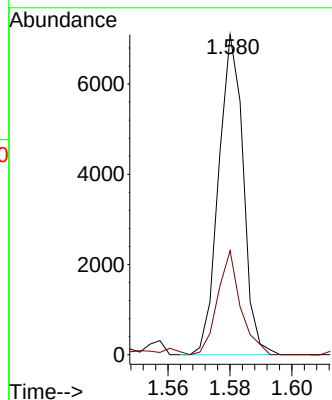
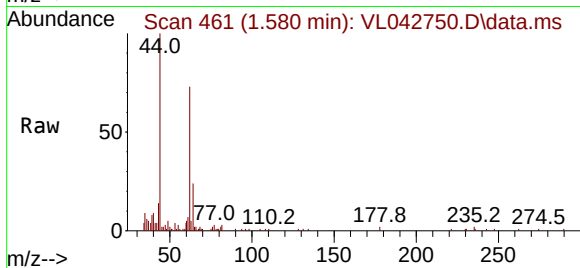
#5
 Vinyl Chloride
 Concen: 0.488 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 62 Resp: 3902
 Ion Ratio Lower Upper
 62 100
 64 32.5 24.5 36.7

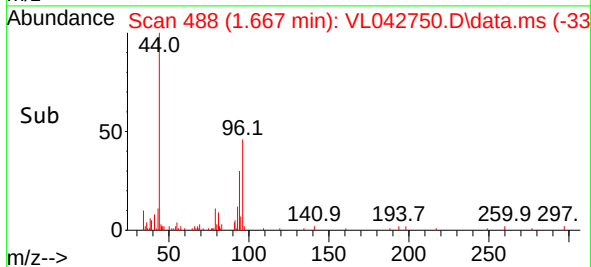
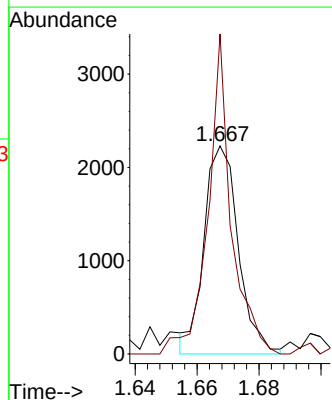
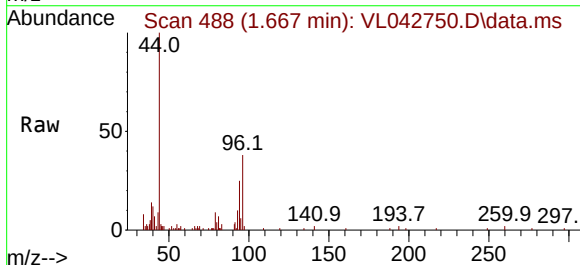
Manual Integrations
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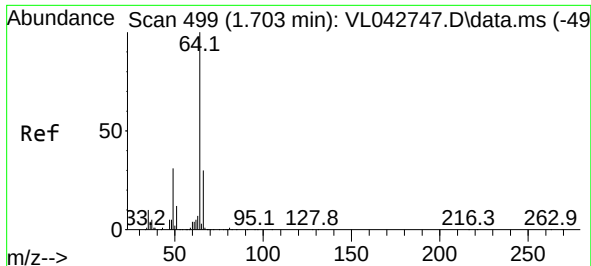
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#6
 Bromomethane
 Concen: 0.556 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

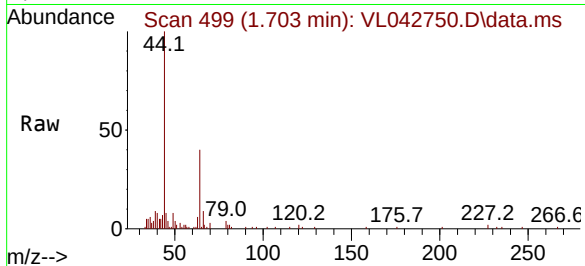
Tgt Ion: 94 Resp: 1717
 Ion Ratio Lower Upper
 94 100
 96 157.5 77.6 116.4#





#7
Chloroethane
Concen: 0.681 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

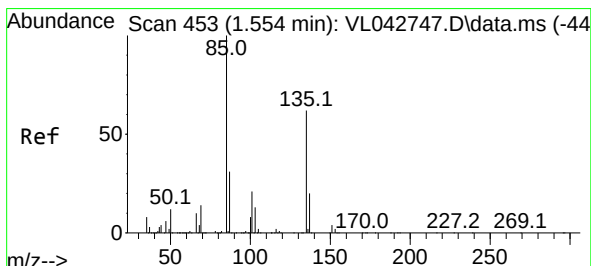
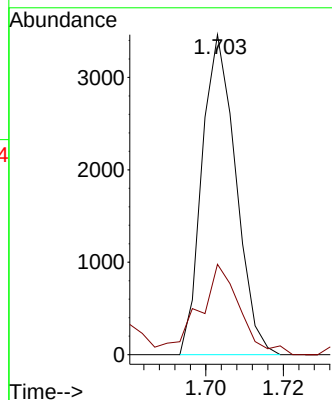
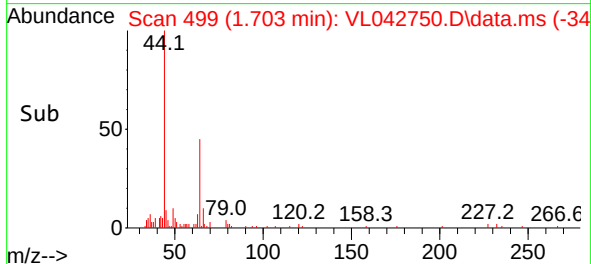
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



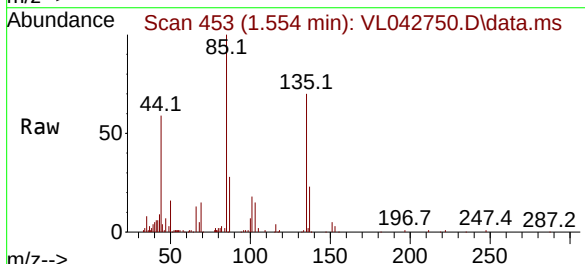
Tgt Ion: 64 Resp: 210
Ion Ratio Lower Upper
64 100
66 28.3 24.1 36.1

Manual Integrations
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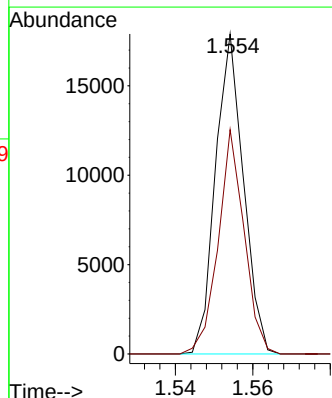
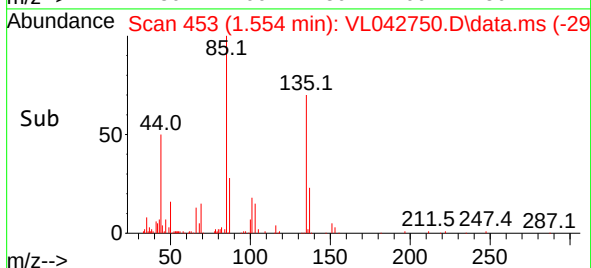
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

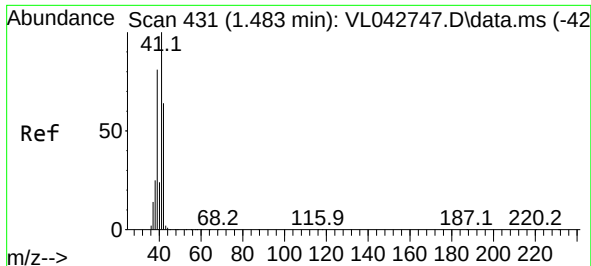


#8
Dichlorotetrafluoroethane
Concen: 0.545 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



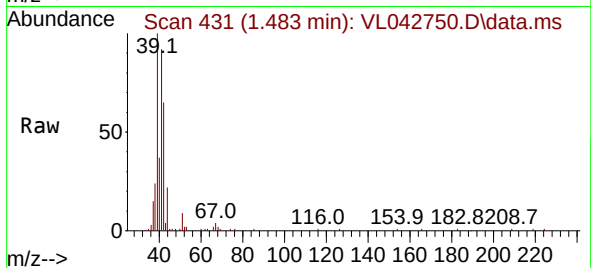
Tgt Ion: 85 Resp: 8971
Ion Ratio Lower Upper
85 100
135 65.3 50.6 76.0





#9
 Propene
 Concen: 0.496 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

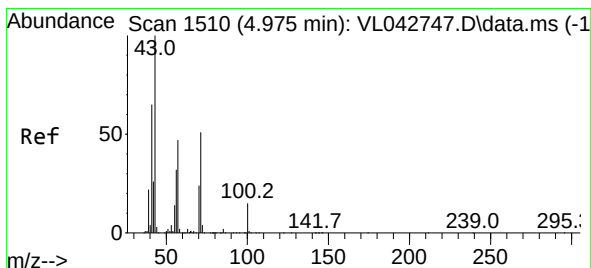
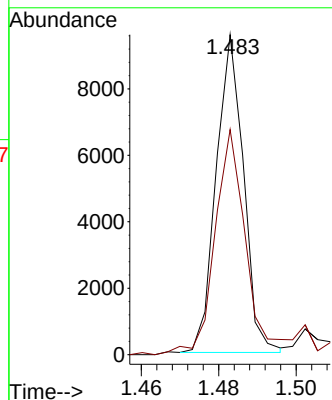
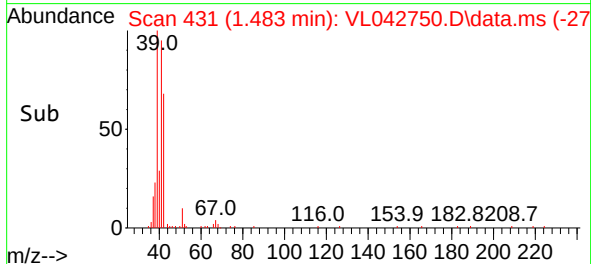
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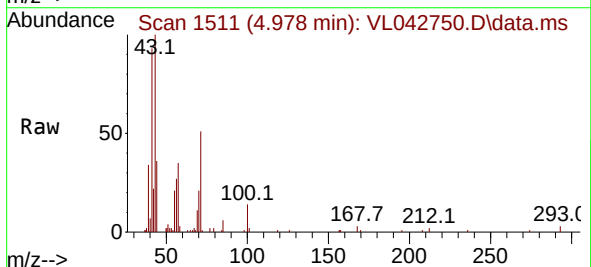
Tgt Ion: 41 Resp: 469
 Ion Ratio Lower Upper
 41 100
 42 84.9 53.2 79.8

Manual Integrations
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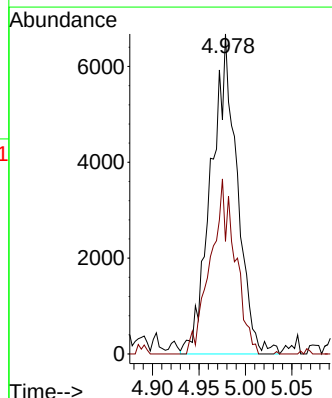
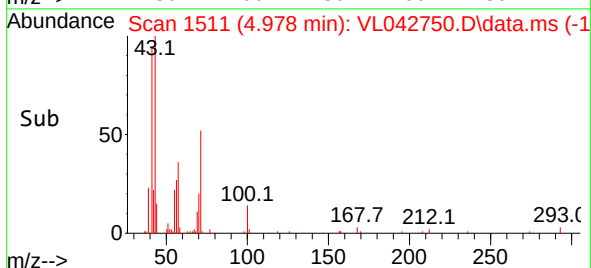
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

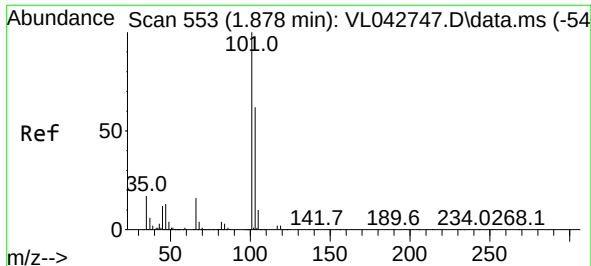


#10
 Heptane
 Concen: 0.511 ppbv m
 RT: 4.978 min Scan# 1511
 Delta R.T. 0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42



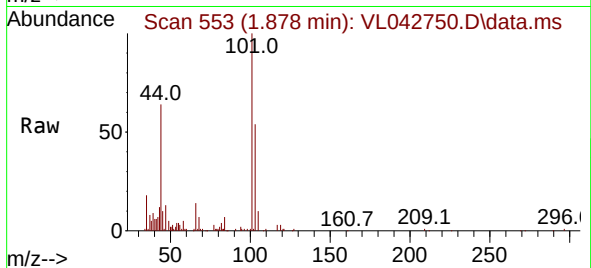
Tgt Ion: 43 Resp: 13003
 Ion Ratio Lower Upper
 43 100
 57 51.9 39.9 59.9





#11
 Trichlorofluoromethane
 Concen: 0.535 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

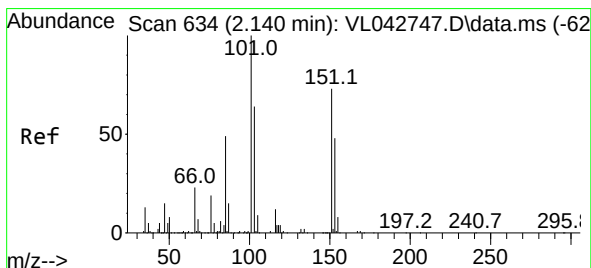
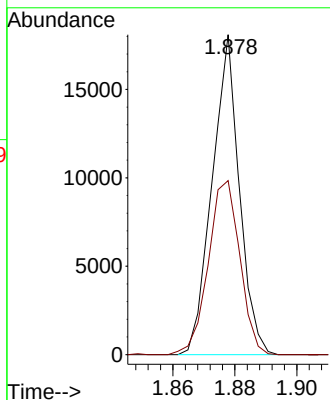
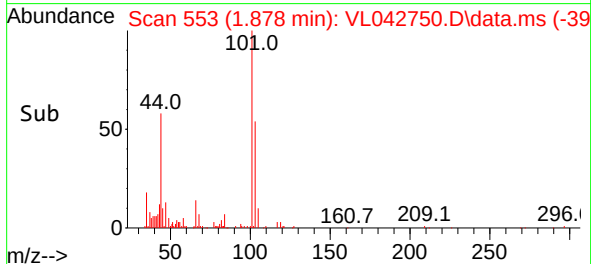
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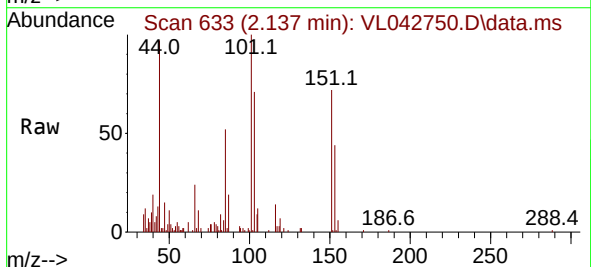
Tgt Ion:101 Resp: 1102
 Ion Ratio Lower Upper
 101 100
 103 54.4 49.6 74.4

Manual Integrations
 APPROVED

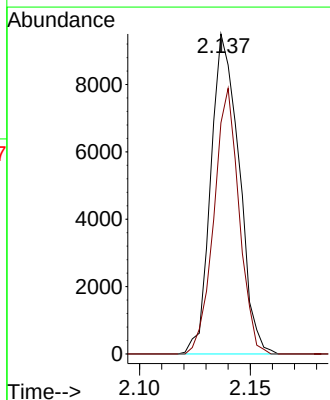
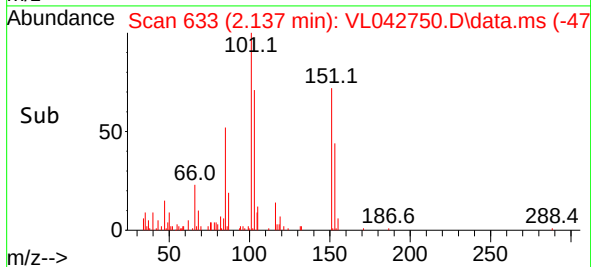
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

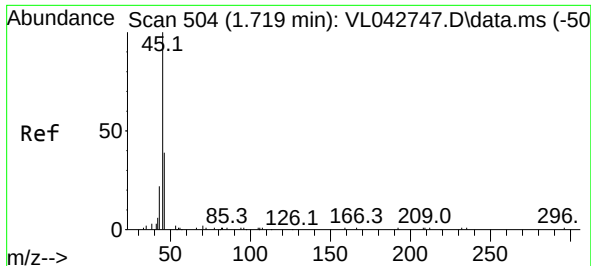


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.538 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42



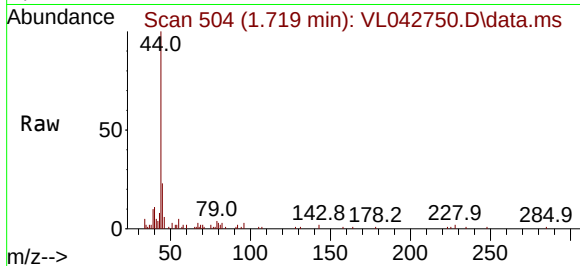
Tgt Ion:101 Resp: 8430
 Ion Ratio Lower Upper
 101 100
 151 74.0 60.5 90.7





#13
Ethanol
Concen: 0.498 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

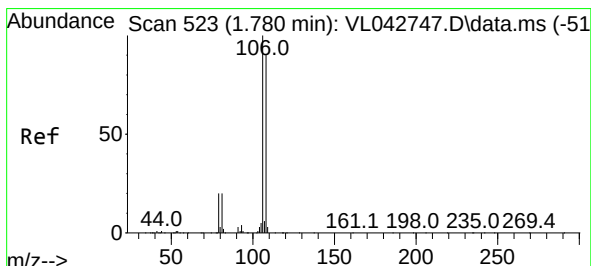
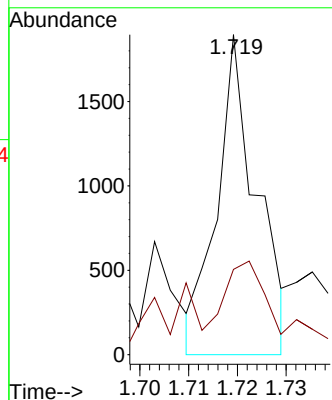
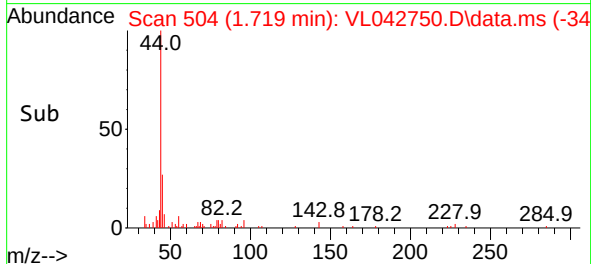
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MSVOA_L
ClientSampleId :
VSTDIC0.5



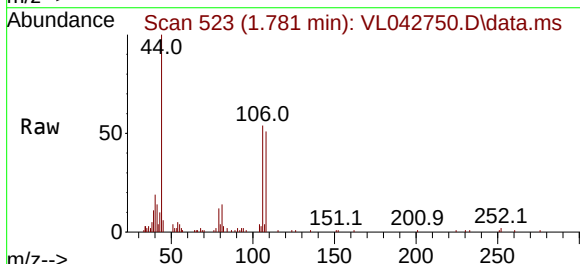
Tgt Ion: 45 Resp: 1060
Ion Ratio Lower Upper
45 100
46 81.1 17.8 71.4

Manual Integrations
APPROVED

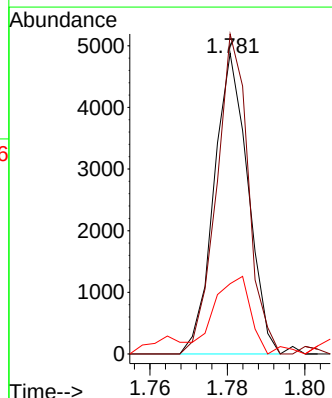
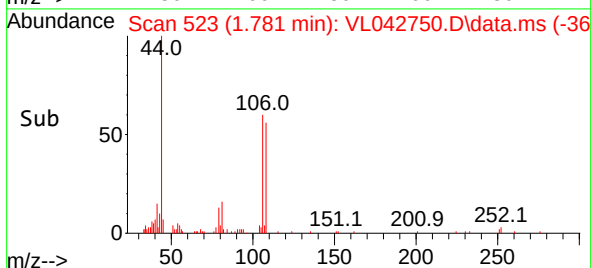
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

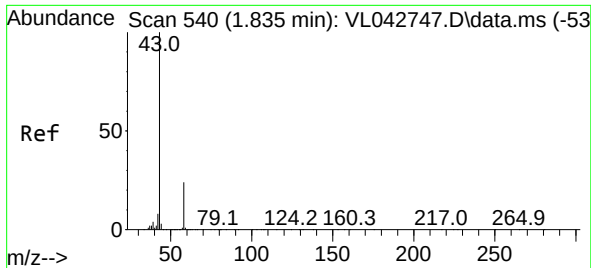


#14
Bromoethene
Concen: 0.536 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



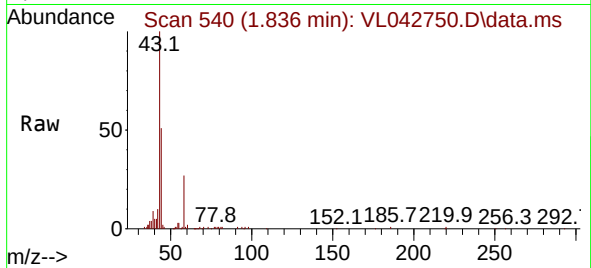
Tgt Ion:108 Resp: 2971
Ion Ratio Lower Upper
108 100
106 102.0 84.7 127.1
79 35.4 17.4 26.2





#15
Acetone
Concen: 0.671 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

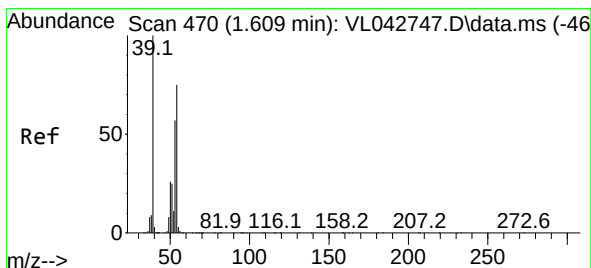
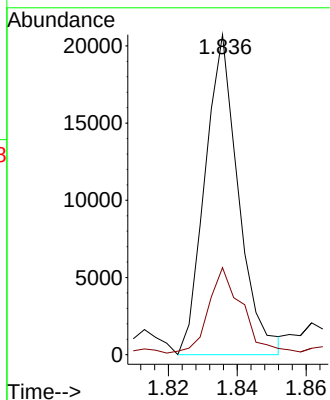
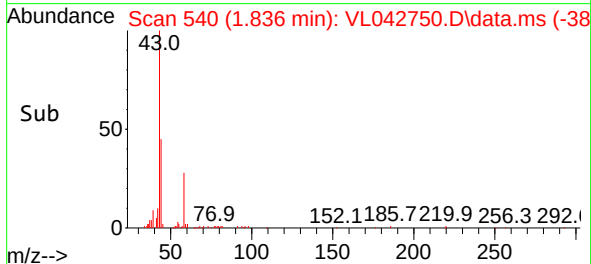
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



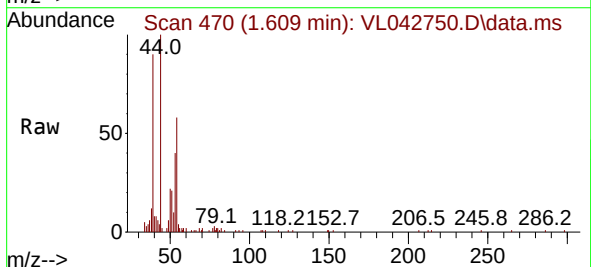
Tgt Ion: 43 Resp: 14012
Ion Ratio Lower Upper
43 100
58 30.8 19.8 29.8

Manual Integrations
APPROVED

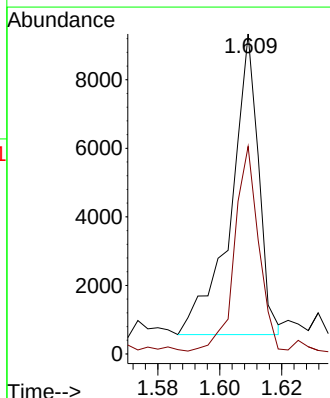
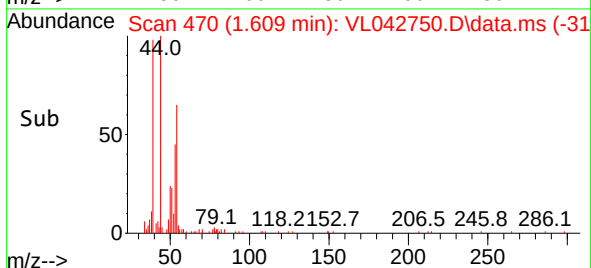
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

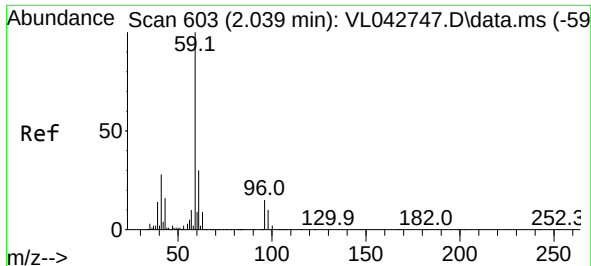


#16
1,3-Butadiene
Concen: 0.616 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



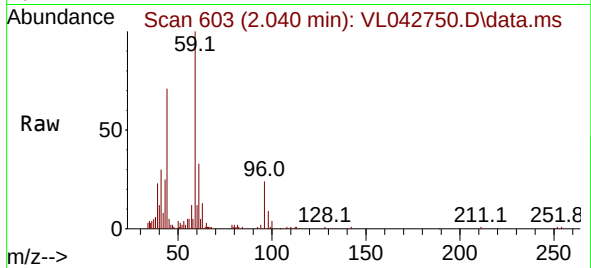
Tgt Ion: 39 Resp: 5488
Ion Ratio Lower Upper
39 100
54 67.8 54.5 81.7





#17
tert-Butyl alcohol
Concen: 0.549 ppbv
RT: 2.040 min Scan# 603
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

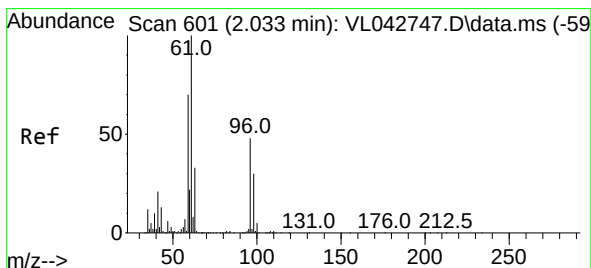
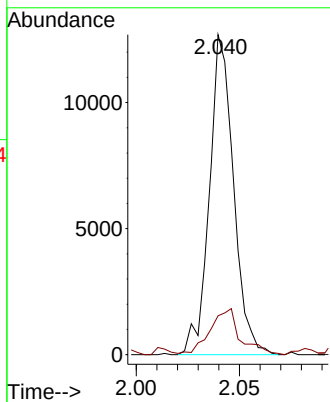
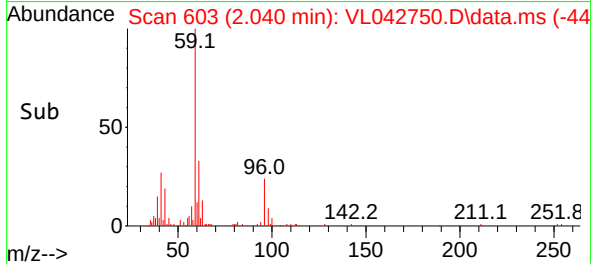
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



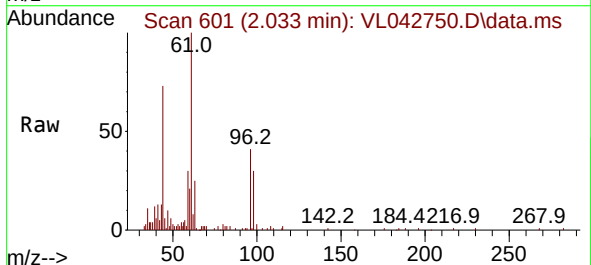
Tgt Ion: 59 Resp: 1033
Ion Ratio Lower Upper
59 100
57 19.1 8.3 12.5

Manual Integrations
APPROVED

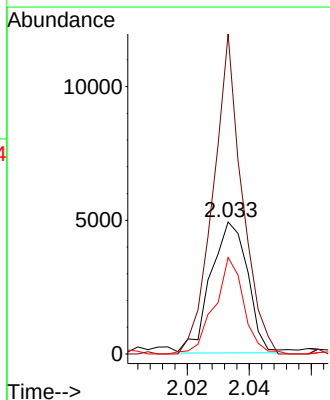
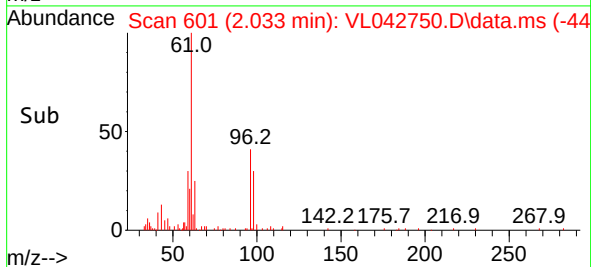
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

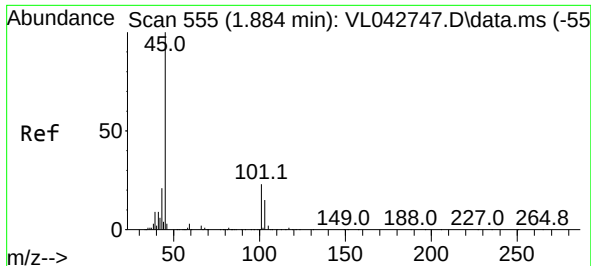


#18
1,1-Dichloroethene
Concen: 0.572 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



Tgt Ion: 96 Resp: 4051
Ion Ratio Lower Upper
96 100
61 246.6 165.8 248.6
98 72.7 49.9 74.9





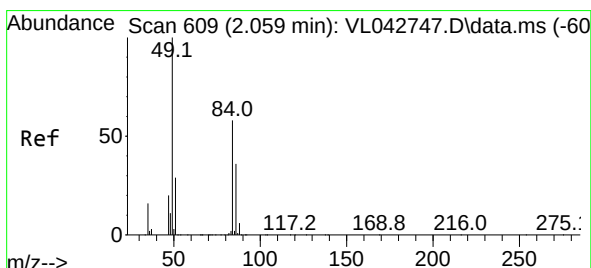
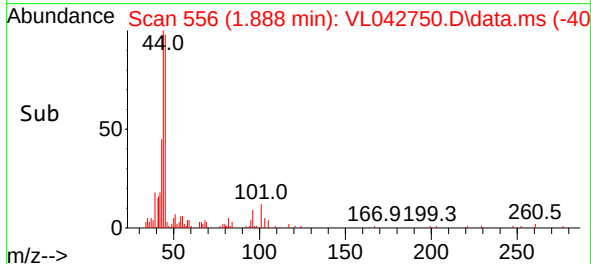
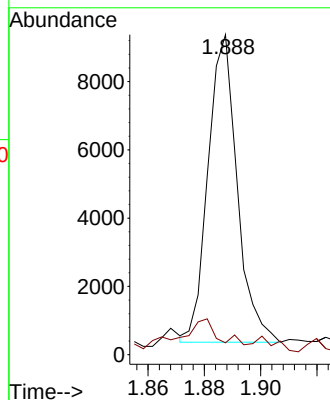
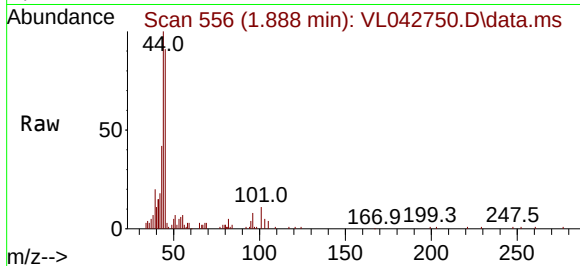
#19
Isopropyl Alcohol
Concen: 0.584 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 6478
Ion Ratio Lower Upper
45 100
58 25.9 30.0 45.0

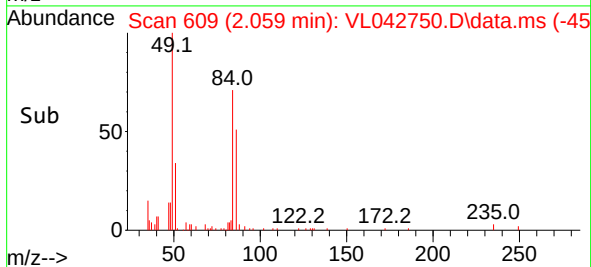
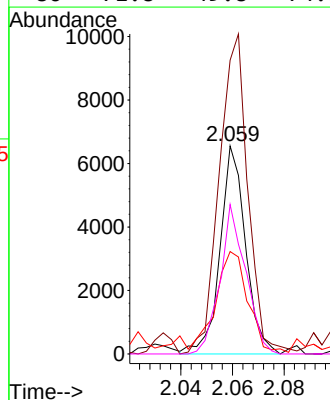
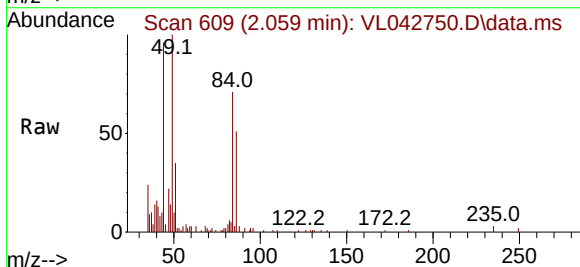
Manual Integrations
APPROVED

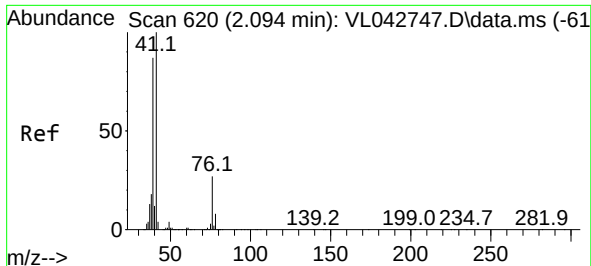
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#20
Methylene Chloride
Concen: 0.684 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

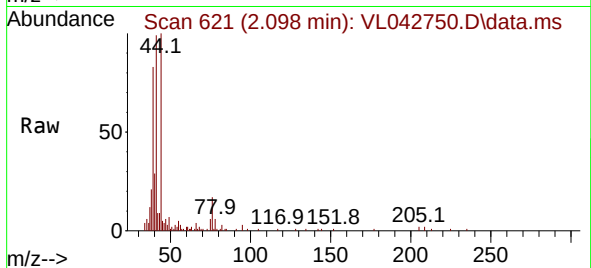
Tgt Ion: 84 Resp: 4500
Ion Ratio Lower Upper
84 100
49 141.2 138.6 208.0
51 46.8 40.6 61.0
86 71.8 49.8 74.8





#21
 Allyl Chloride
 Concen: 0.531 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

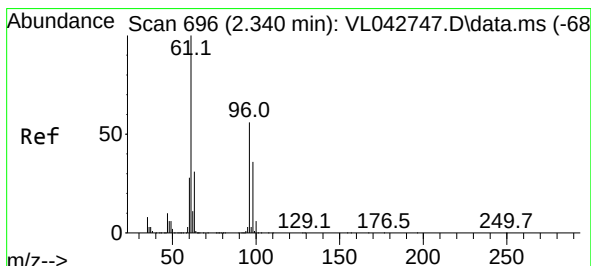
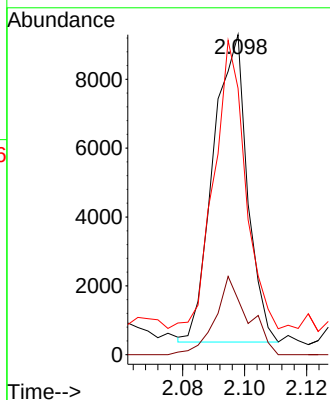
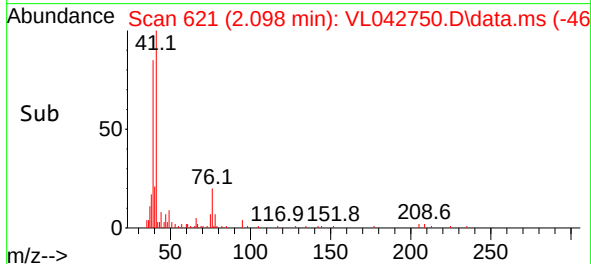
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



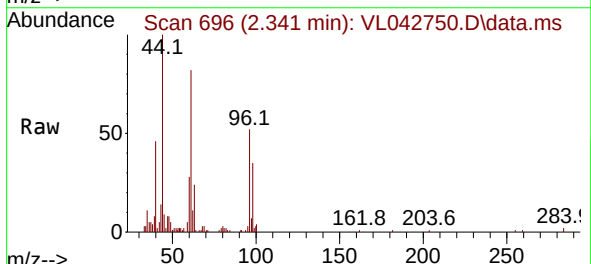
Tgt Ion: 41 Resp: 6829
 Ion Ratio Lower Upper
 41 100
 76 24.4 21.1 31.7
 39 108.8 68.3 102.5

Manual Integrations
 APPROVED

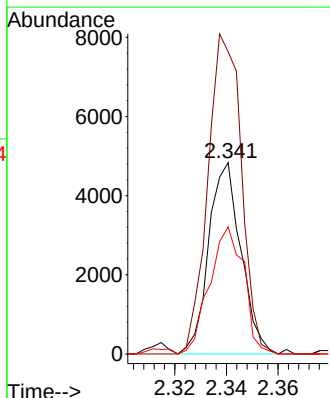
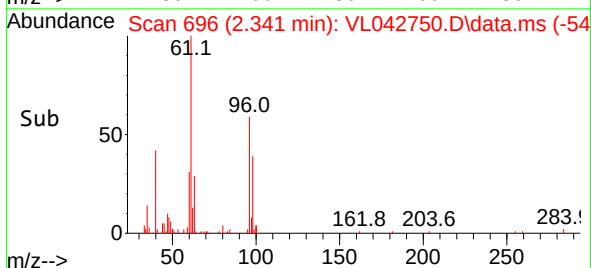
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

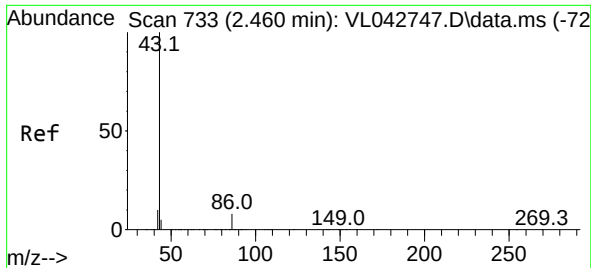


#22
 trans-1,2-Dichloroethene
 Concen: 0.551 ppbv
 RT: 2.341 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42



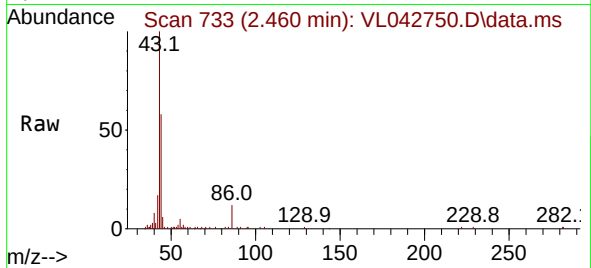
Tgt Ion: 96 Resp: 4186
 Ion Ratio Lower Upper
 96 100
 61 157.9 142.3 213.5
 98 66.4 50.6 76.0





#23
 Vinyl Acetate
 Concen: 0.491 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

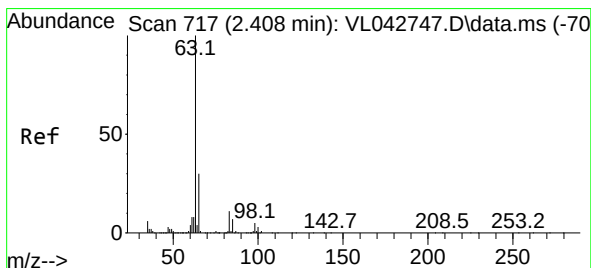
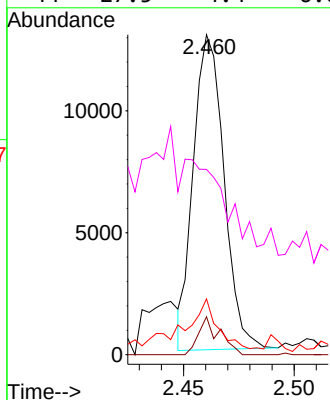
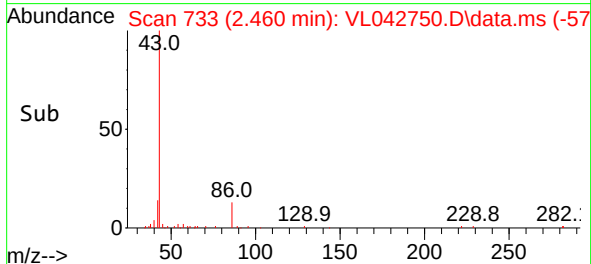
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



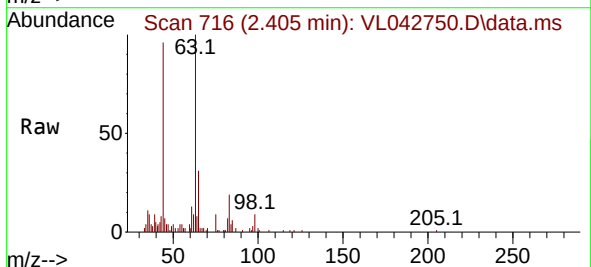
Tgt Ion: 43 Resp: 1242
 Ion Ratio Lower Upper
 43 100
 86 12.1 6.1 9.1#
 42 13.5 7.8 11.8#
 44 27.5 4.4 6.6#

Manual Integrations
 APPROVED

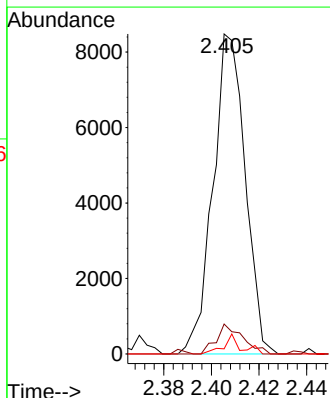
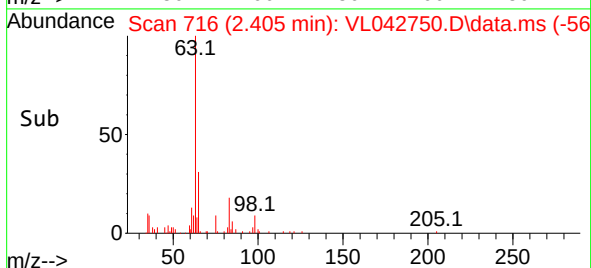
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

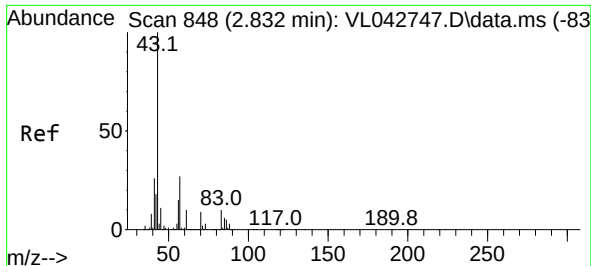


#24
 1,1-Dichloroethane
 Concen: 0.509 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42



Tgt Ion: 63 Resp: 7962
 Ion Ratio Lower Upper
 63 100
 98 9.4 2.5 7.4#
 100 2.8 1.6 4.8





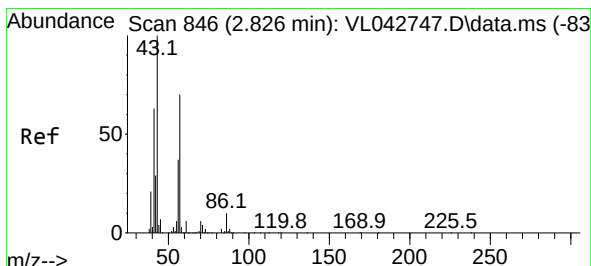
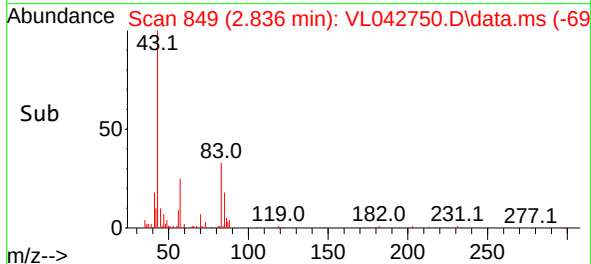
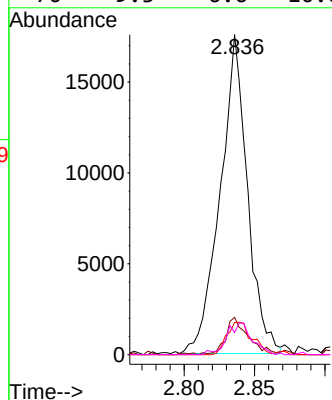
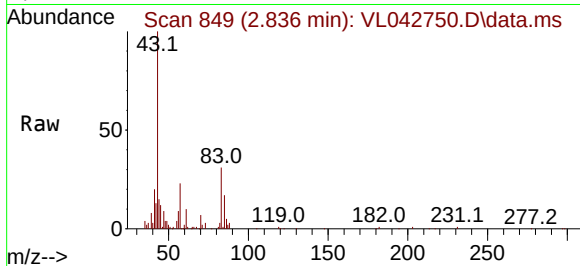
#25
Ethyl Acetate
Concen: 0.511 ppbv
RT: 2.836 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 43 Resp: 2363
Ion Ratio Lower Upper
43 100
45 10.4 7.8 11.6
61 9.8 6.7 10.1
70 9.3 6.6 10.0

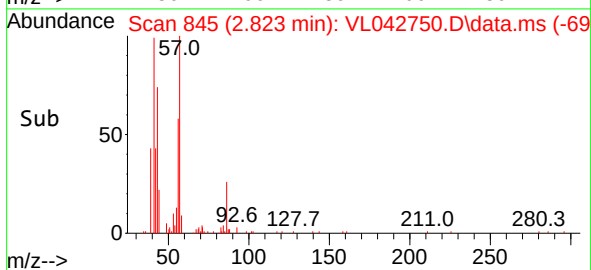
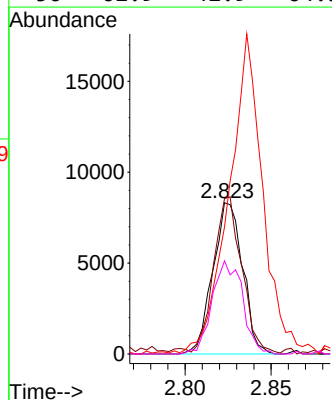
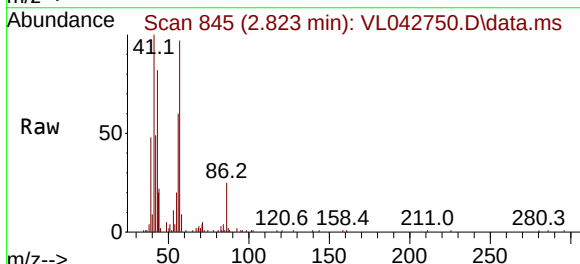
Manual Integrations
APPROVED

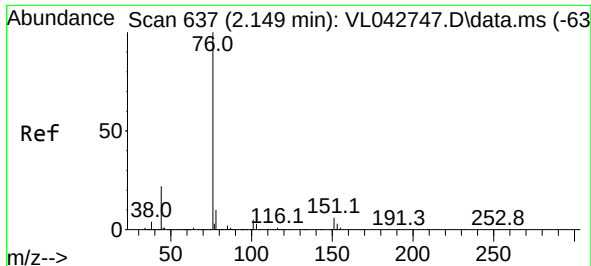
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#26
Hexane
Concen: 0.494 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

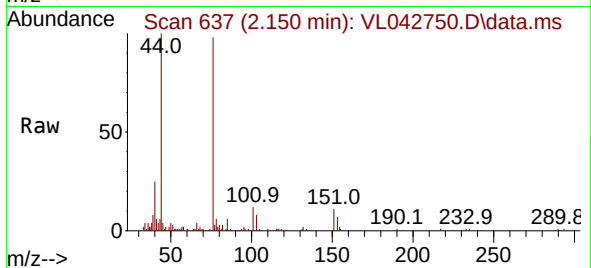
Tgt Ion: 57 Resp: 10019
Ion Ratio Lower Upper
57 100
41 107.1 75.4 113.2
43 244.9 185.0 277.6
56 62.9 42.9 64.3





#27
Carbon Disulfide
Concen: 0.499 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

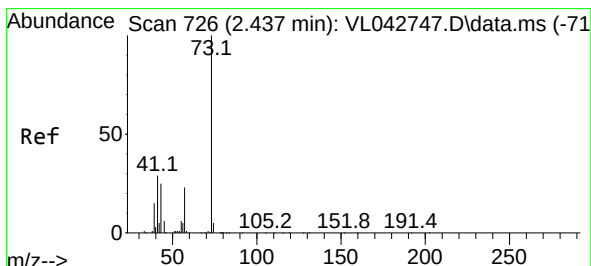
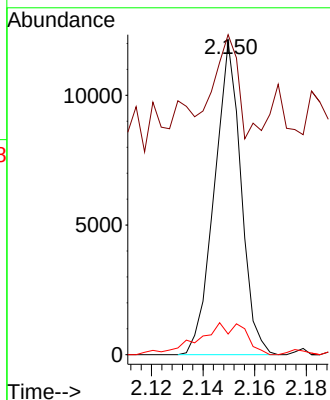
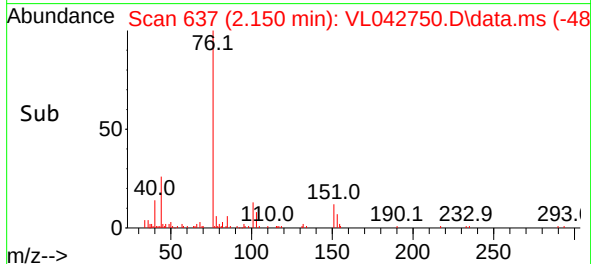
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



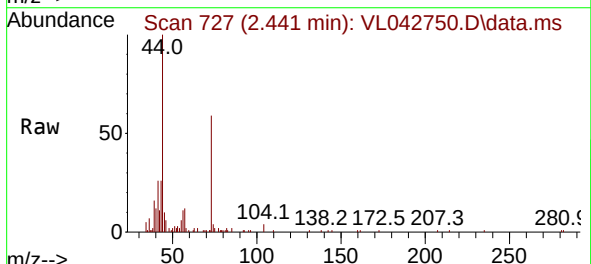
Tgt Ion: 76 Resp: 8670
Ion Ratio Lower Upper
76 100
44 203.7 19.3 28.9
78 19.1 9.9 14.9

Manual Integrations
APPROVED

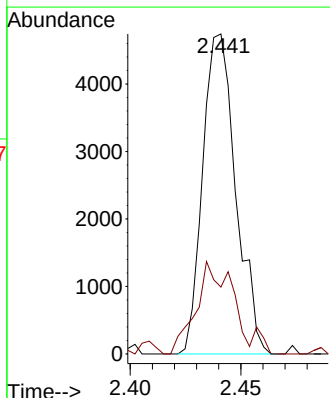
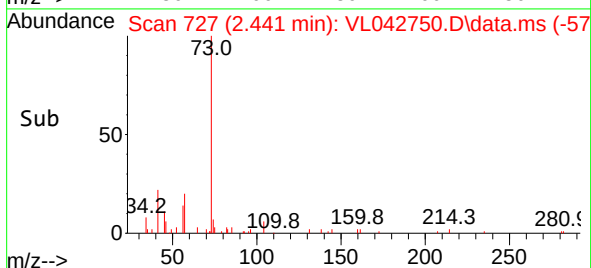
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

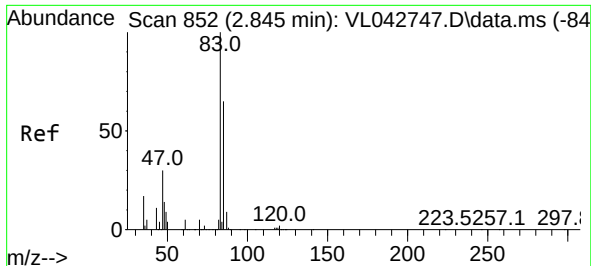


#28
Methyl tert-Butyl Ether
Concen: 0.515 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



Tgt Ion: 73 Resp: 4937
Ion Ratio Lower Upper
73 100
57 35.2 19.8 29.8





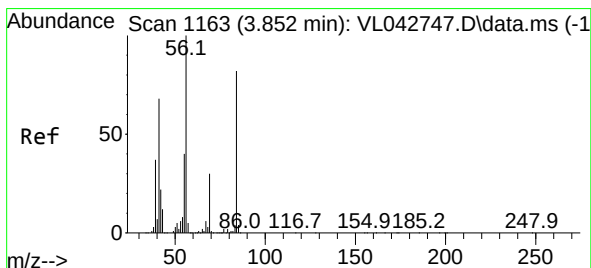
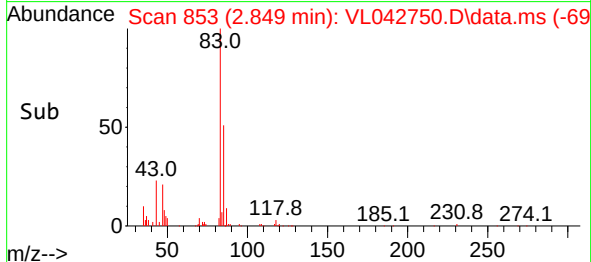
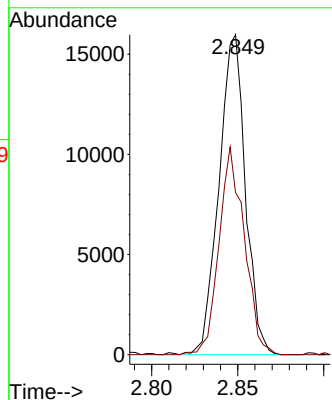
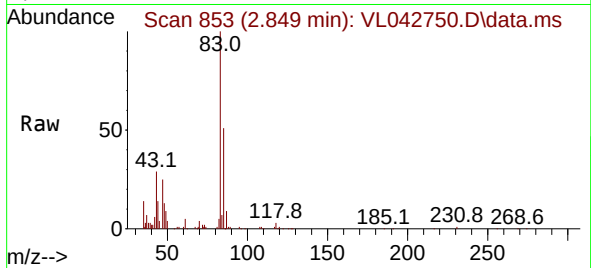
#29
Chloroform
Concen: 0.546 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 83 Resp: 17100
Ion Ratio Lower Upper
83 100
85 50.7 52.2 78.2

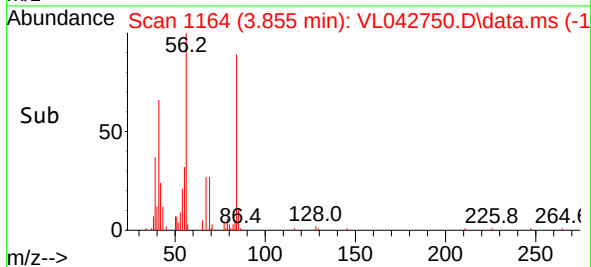
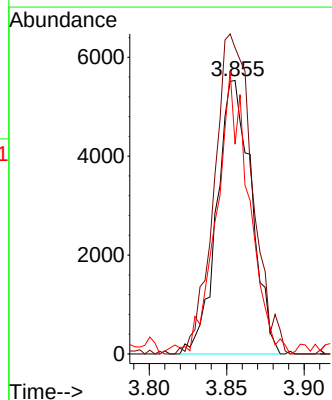
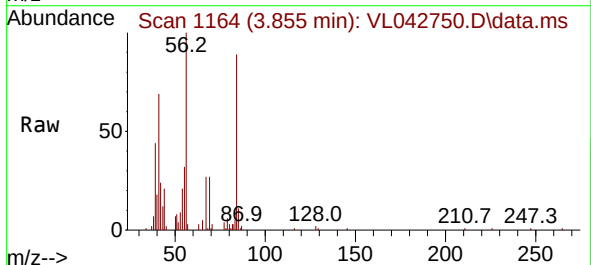
Manual Integrations
APPROVED

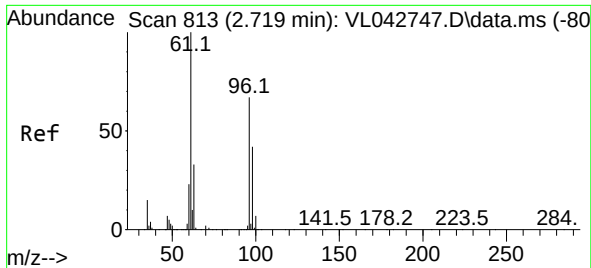
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#30
Cyclohexane
Concen: 0.500 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 84 Resp: 8596
Ion Ratio Lower Upper
84 100
56 129.6 97.5 146.3
41 98.8 67.2 100.8





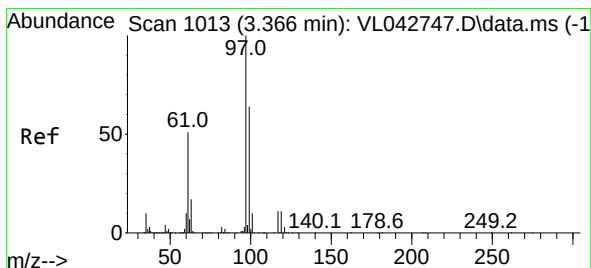
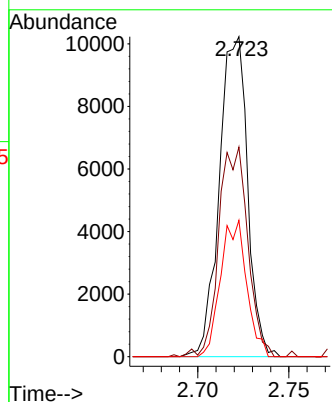
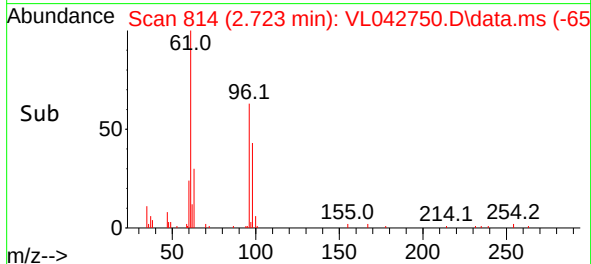
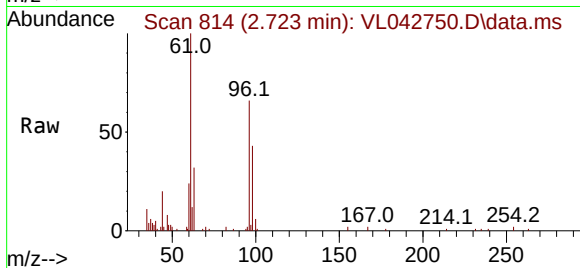
#31
 cis-1,2-Dichloroethene
 Concen: 0.529 ppbv
 RT: 2.723 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 61 Resp: 1103
 Ion Ratio Lower Upper
 61 100
 96 65.5 53.5 80.3
 98 42.6 33.6 50.4

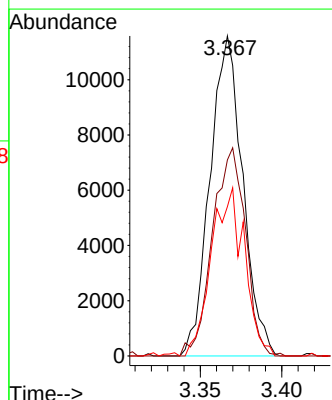
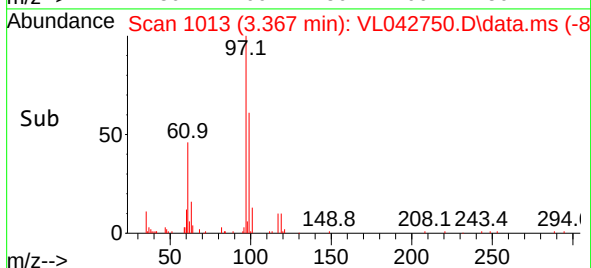
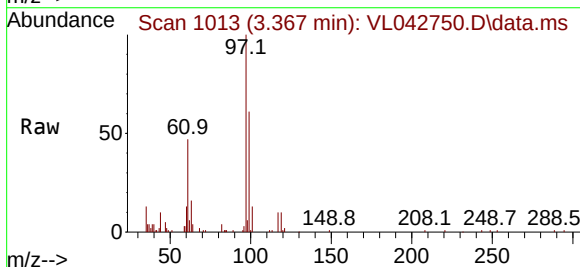
Manual Integrations
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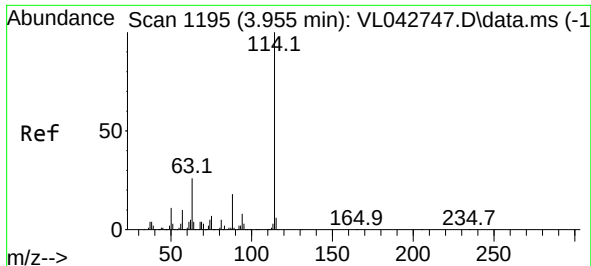
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#32
 1,1,1-Trichloroethane
 Concen: 0.494 ppbv
 RT: 3.367 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

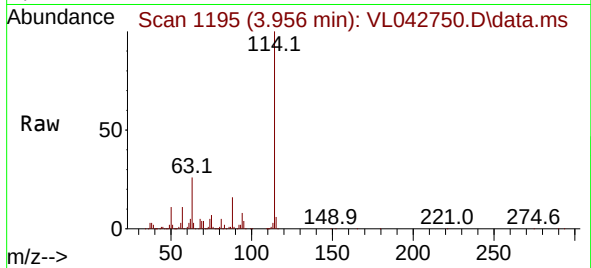
Tgt Ion: 97 Resp: 16132
 Ion Ratio Lower Upper
 97 100
 99 65.6 51.0 76.6
 61 53.8 40.9 61.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

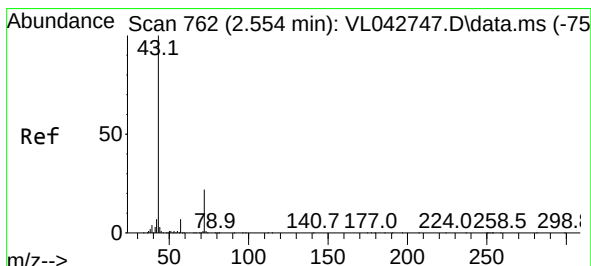
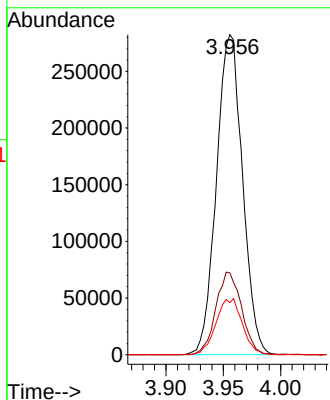
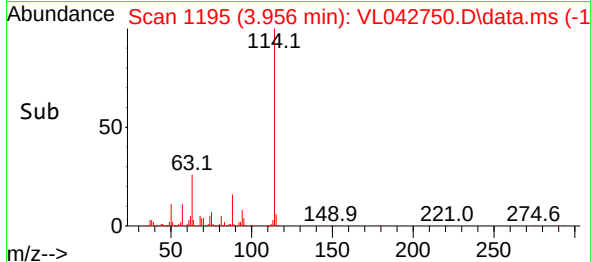
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



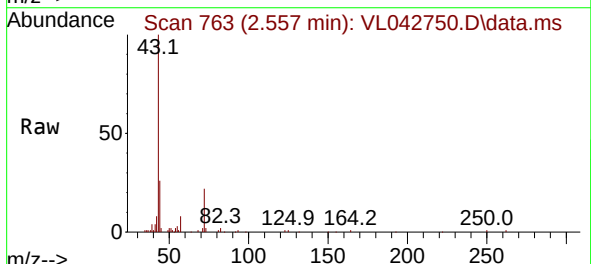
Tgt Ion:114 Resp: 446830
Ion Ratio Lower Upper
114 100
63 25.4 20.5 30.7
88 17.7 14.0 21.0

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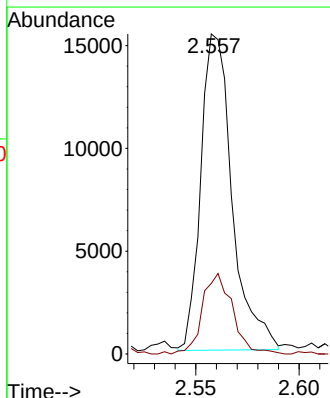
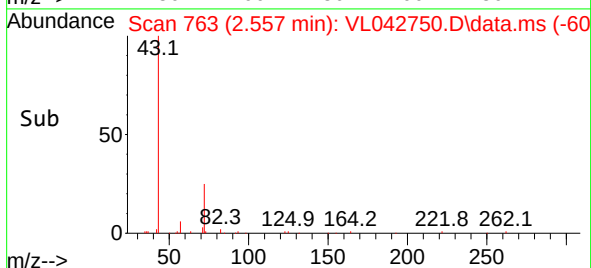
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

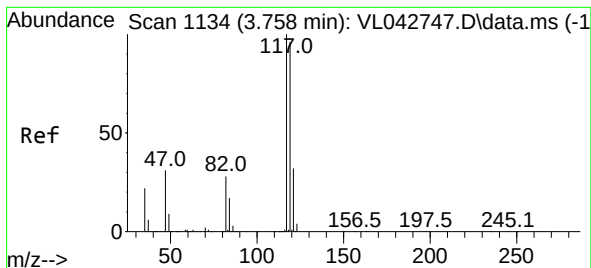


#34
2-Butanone
Concen: 0.515 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



Tgt Ion: 43 Resp: 16299
Ion Ratio Lower Upper
43 100
72 24.6 17.4 26.0





#35

Carbon Tetrachloride

Concen: 0.458 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. 0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

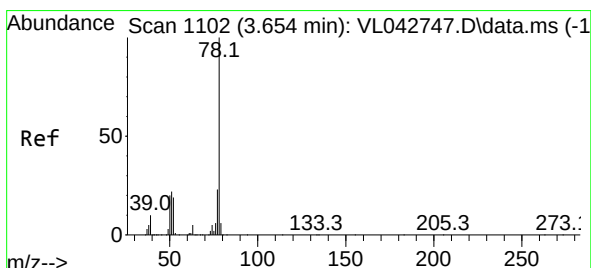
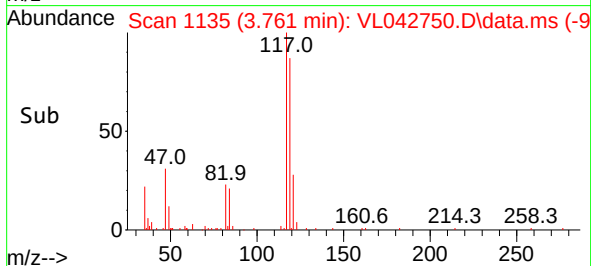
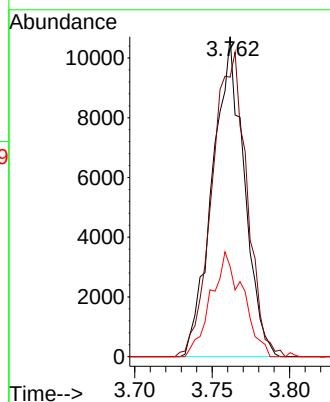
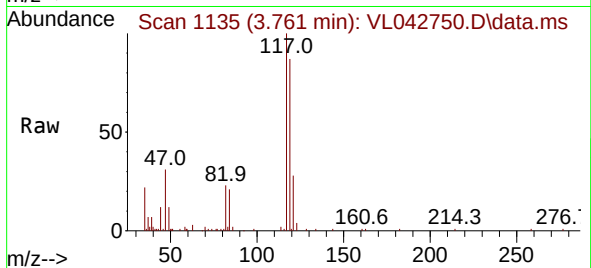
Tgt Ion:117	Resp:	1520
Ion Ratio	Lower	Upper
117	100	
119	86.0	77.1 115.7
121	28.2	25.5 38.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#36

Benzene

Concen: 0.515 ppbv

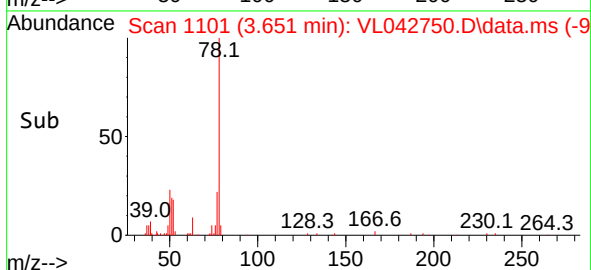
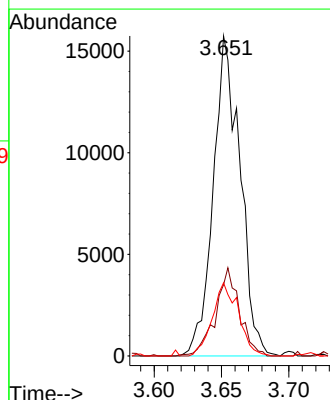
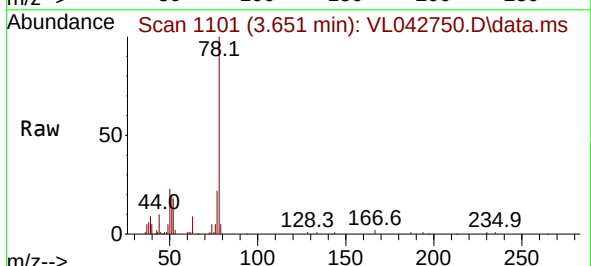
RT: 3.651 min Scan# 1101

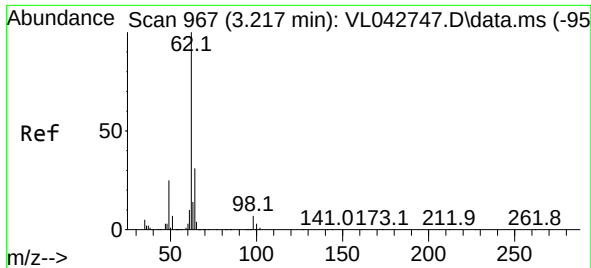
Delta R.T. -0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Tgt Ion: 78	Resp:	21800
Ion Ratio	Lower	Upper
78	100	
77	22.3	18.5 27.7
50	22.8	16.2 24.2





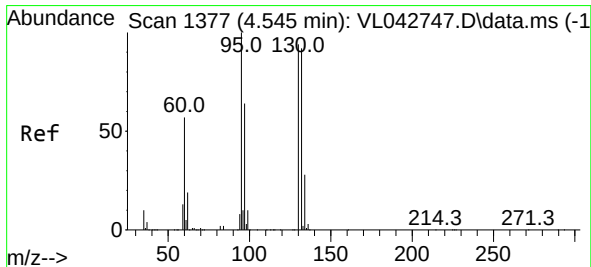
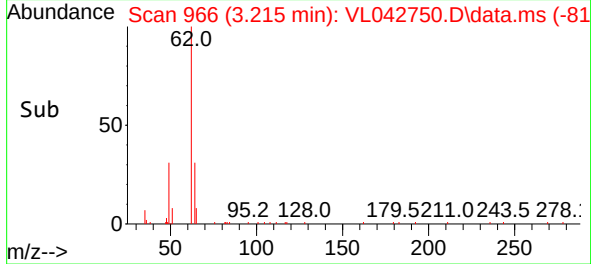
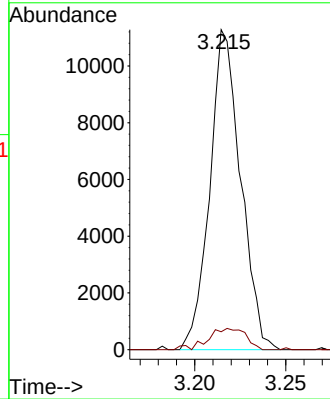
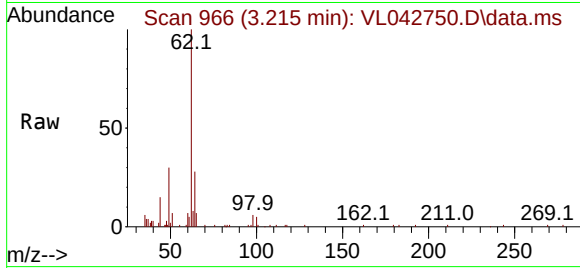
#37
1,2-Dichloroethane
Concen: 0.521 ppbv
RT: 3.215 min Scan# 90
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 62 Resp: 1329
Ion Ratio Lower Upper
62 100
98 8.3 5.2 7.8

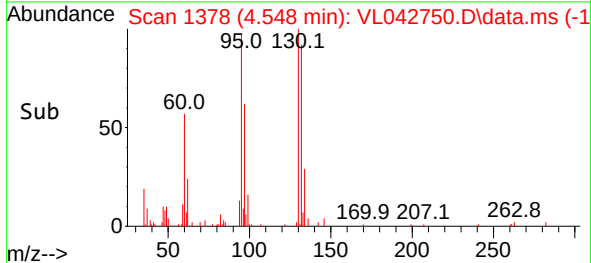
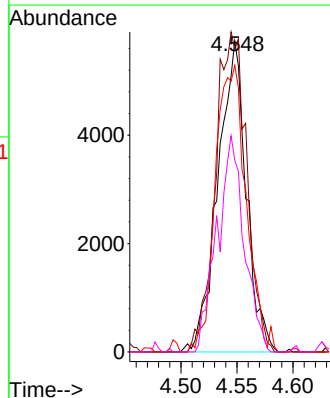
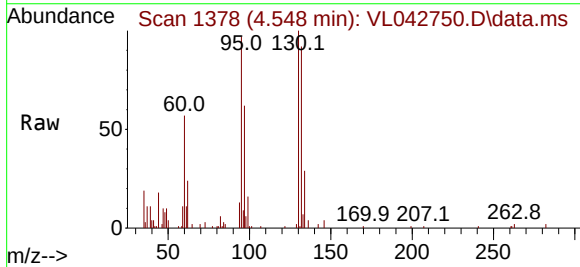
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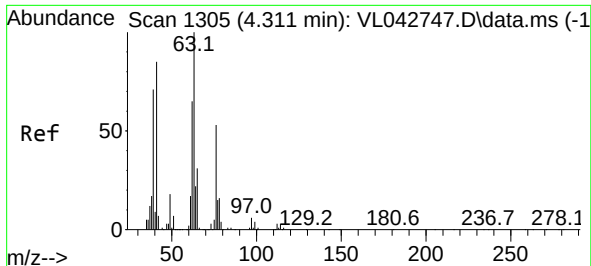
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#38
Trichloroethene
Concen: 0.494 ppbv m
RT: 4.548 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:130 Resp: 10097
Ion Ratio Lower Upper
130 100
95 97.3 85.4 128.2
132 92.1 78.2 117.2
97 61.6 54.8 82.2





#39

1,2-Dichloropropane

Concen: 0.530 ppbv

RT: 4.312 min Scan# 1305

Delta R.T. 0.000 min

Lab File: VL042750.D

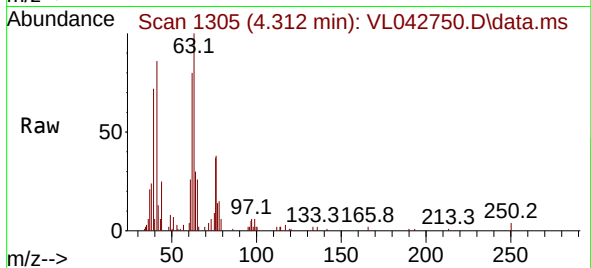
Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5



Tgt Ion: 63 Resp: 829

Ion Ratio Lower Upper

63 100

41 83.1 68.2 102.4

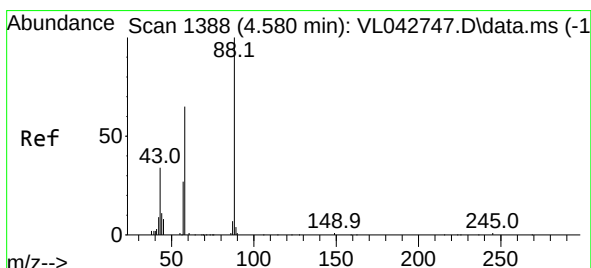
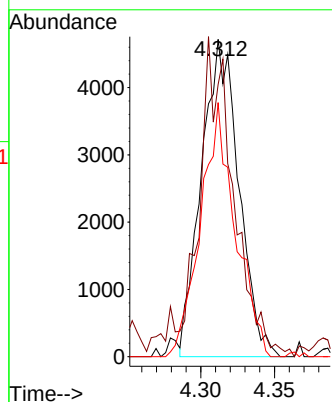
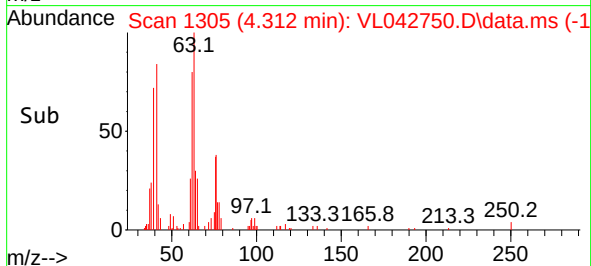
62 80.1 52.0 78.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#40

1,4-Dioxane

Concen: 0.538 ppbv m

RT: 4.606 min Scan# 1396

Delta R.T. 0.026 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Tgt Ion: 88 Resp: 3963

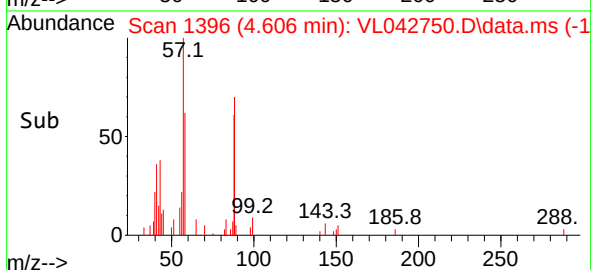
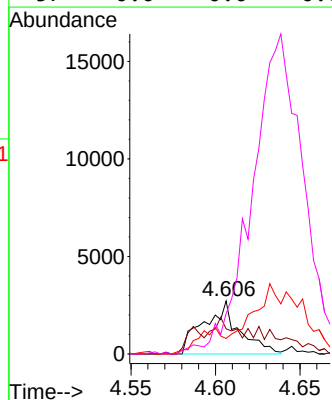
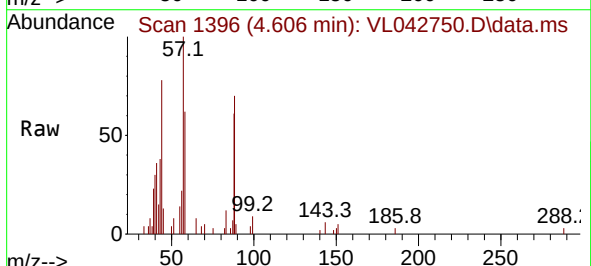
Ion Ratio Lower Upper

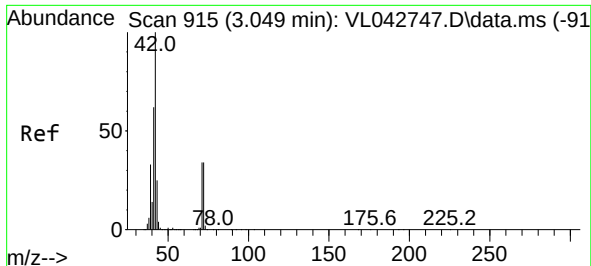
88 100

58 0.0 58.8 88.2#

43 0.0 28.9 43.3#

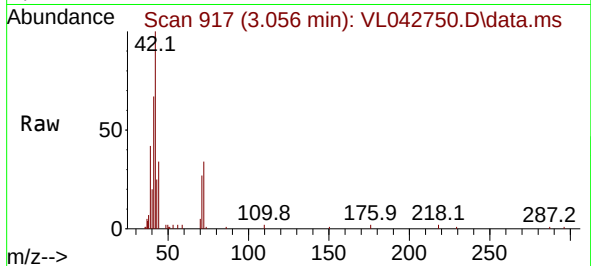
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 0.507 ppbv m
RT: 3.056 min Scan# 915
Delta R.T. 0.007 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

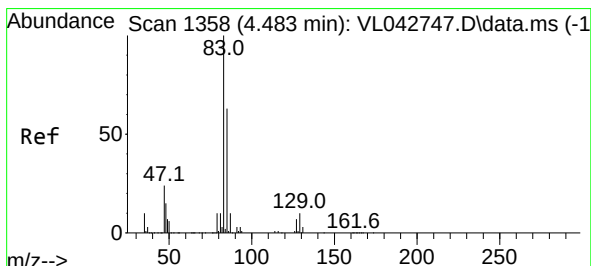
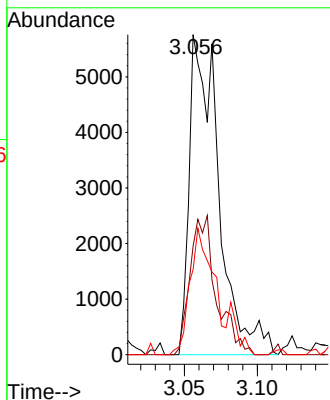
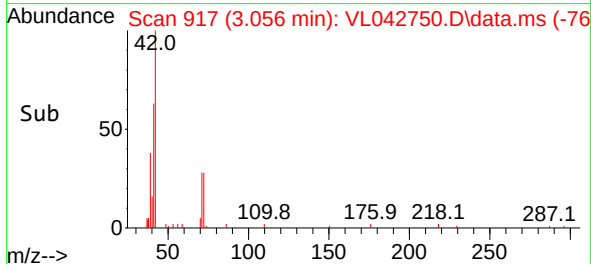
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



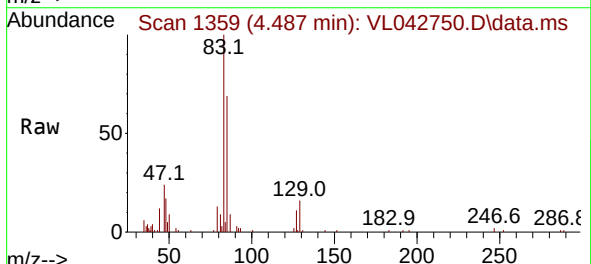
Tgt Ion: 42 Resp: 8064
Ion Ratio Lower Upper
42 100
72 0.0 30.9 46.3
71 37.6 28.6 43.0

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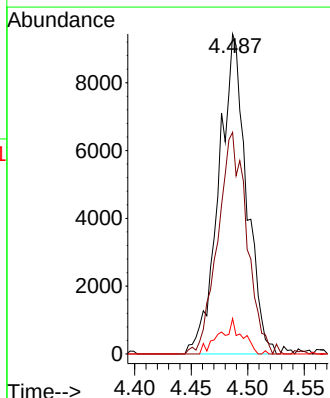
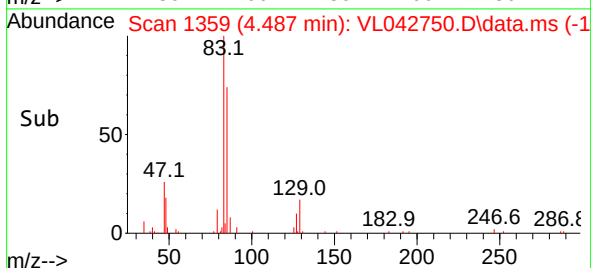
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

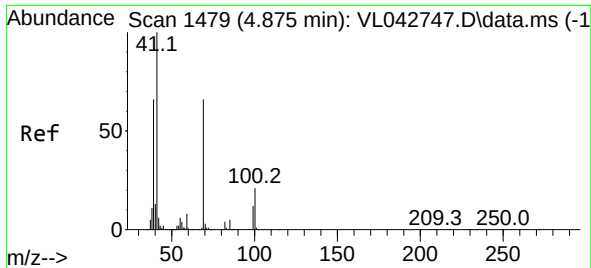


#42
Bromodichloromethane
Concen: 0.484 ppbv m
RT: 4.487 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



Tgt Ion: 83 Resp: 16080
Ion Ratio Lower Upper
83 100
85 69.3 50.2 75.4
127 11.1 5.4 8.2#





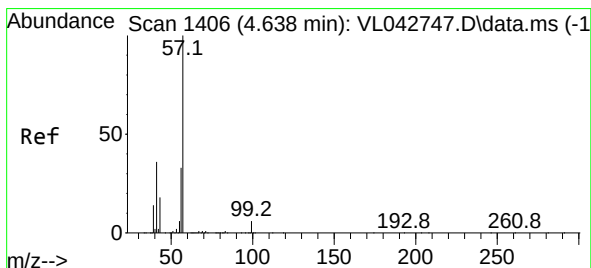
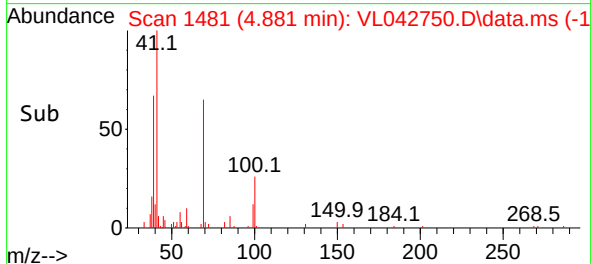
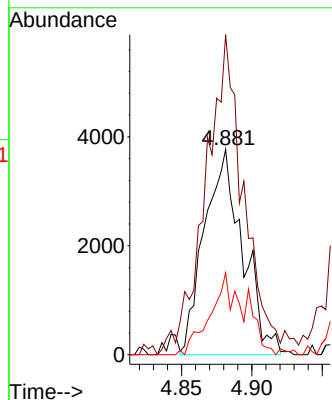
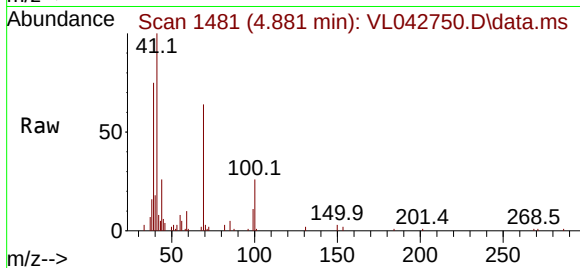
#43
Methyl Methacrylate
Concen: 0.476 ppbv m
RT: 4.881 min Scan# 1479
Delta R.T. 0.007 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 69 Resp: 716
Ion Ratio Lower Upper
69 100
41 155.0 125.7 188.5
100 36.5 28.6 42.8

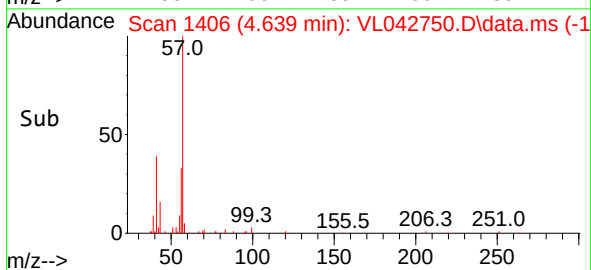
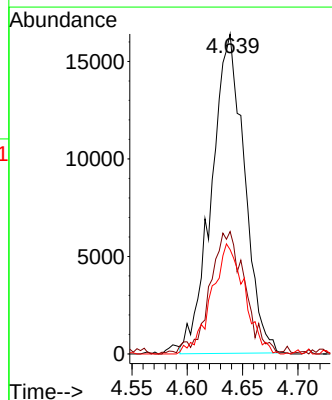
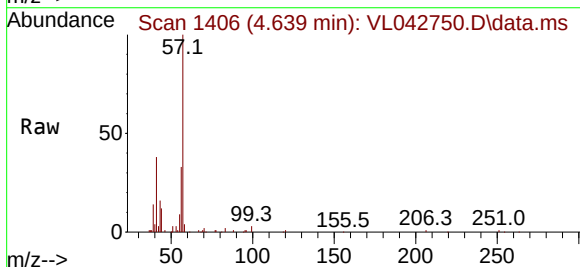
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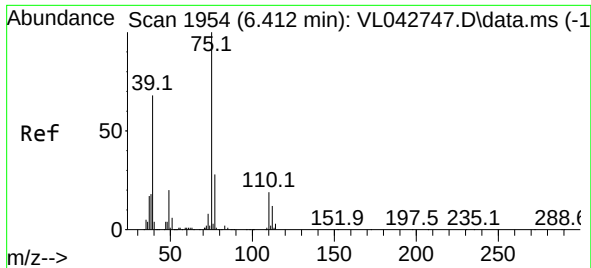
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#44
2,2,4-Trimethylpentane
Concen: 0.490 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

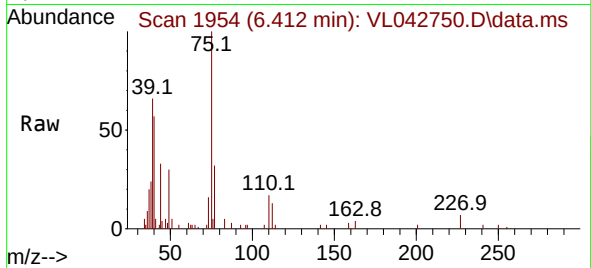
Tgt Ion: 57 Resp: 33853
Ion Ratio Lower Upper
57 100
41 41.3 28.3 42.5
56 34.7 25.8 38.6





#45
 t-1,3-Dichloropropene
 Concen: 0.472 ppbv m
 RT: 6.412 min Scan# 1954
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

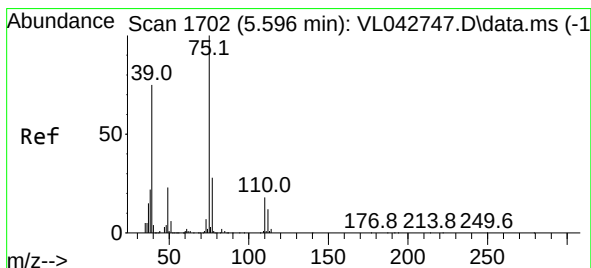
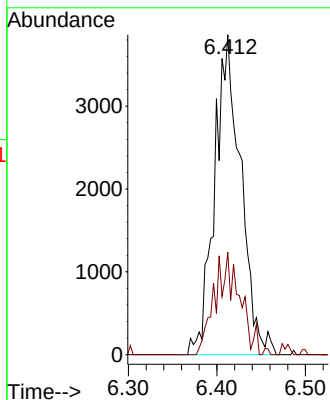
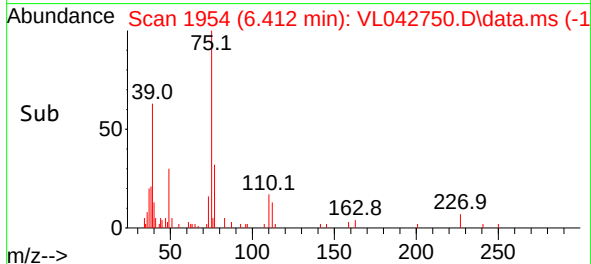
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion: 75 Resp: 7968
 Ion Ratio Lower Upper
 75 100
 77 32.0 22.4 33.6

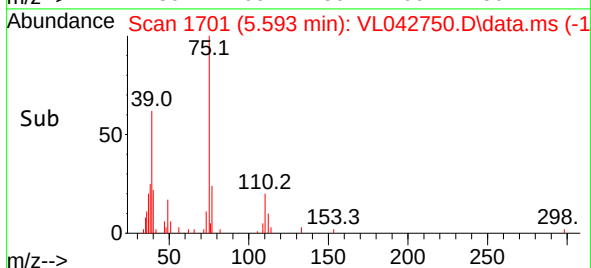
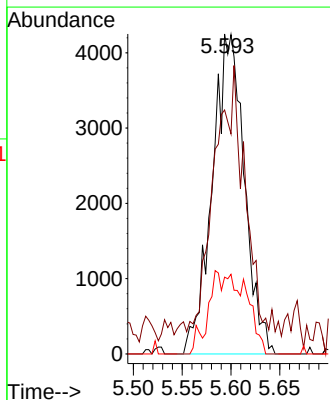
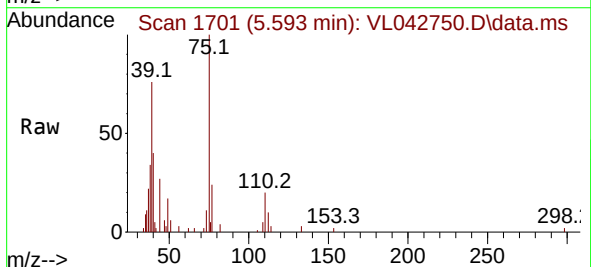
Manual Integrations
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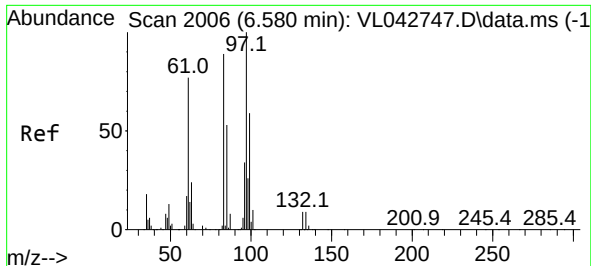
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#46
 cis-1,3-Dichloropropene
 Concen: 0.454 ppbv m
 RT: 5.593 min Scan# 1701
 Delta R.T. -0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion: 75 Resp: 9709
 Ion Ratio Lower Upper
 75 100
 39 76.3 60.2 90.2
 77 24.0 22.6 34.0





#47

1,1,2-Trichloroethane

Concen: 0.527 ppbv m

RT: 6.574 min Scan# 2006

Delta R.T. -0.006 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 97 Resp: 878

Ion Ratio Lower Upper

97 100

83 79.9 71.1 106.7

85 51.6 43.0 64.4

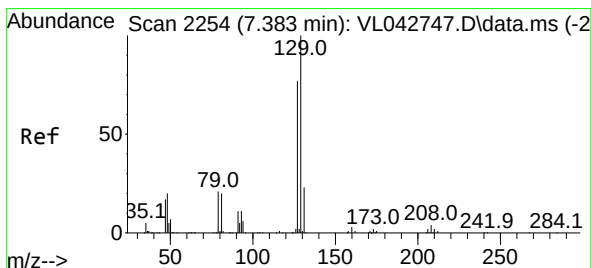
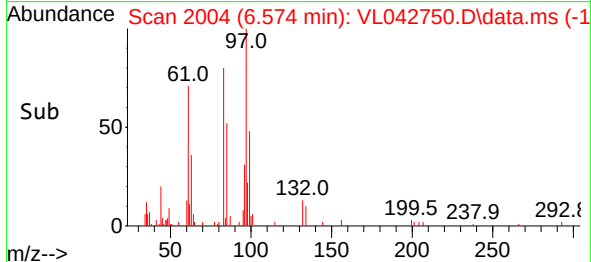
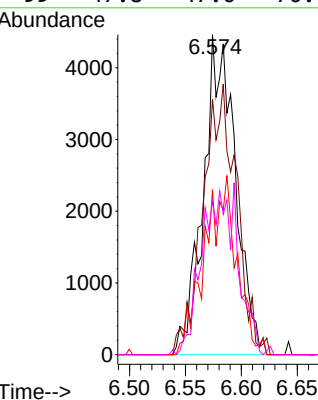
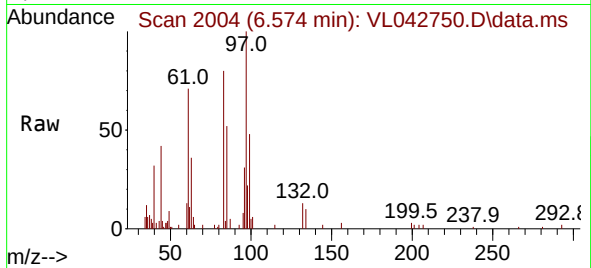
99 47.8 47.0 70.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#48

Dibromochloromethane

Concen: 0.481 ppbv m

RT: 7.383 min Scan# 2254

Delta R.T. 0.000 min

Lab File: VL042750.D

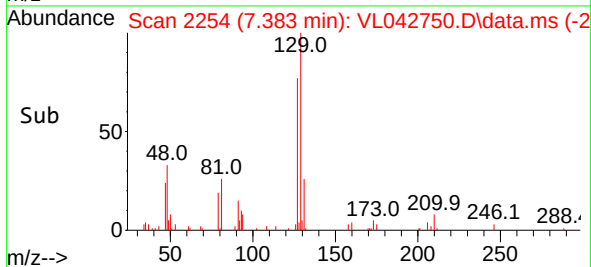
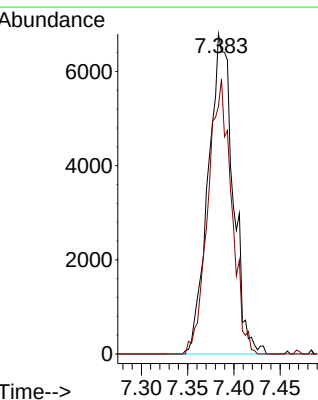
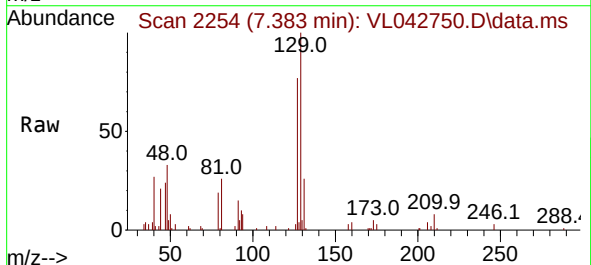
Acq: 23 Jul 2025 10:42

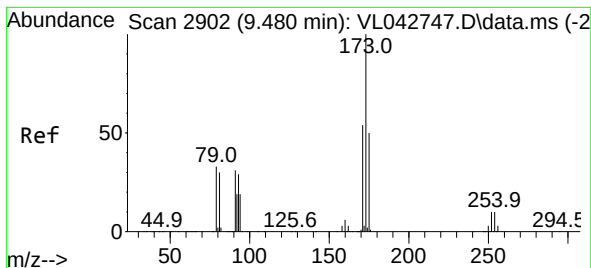
Tgt Ion:129 Resp: 12723

Ion Ratio Lower Upper

129 100

127 81.4 38.7 116.1





#49

Bromoform

Concen: 0.468 ppbv

RT: 9.481 min Scan# 2902

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

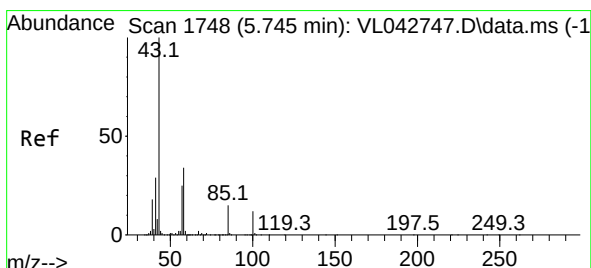
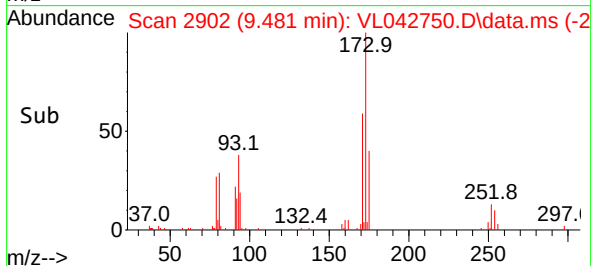
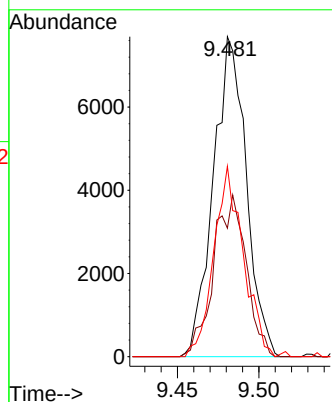
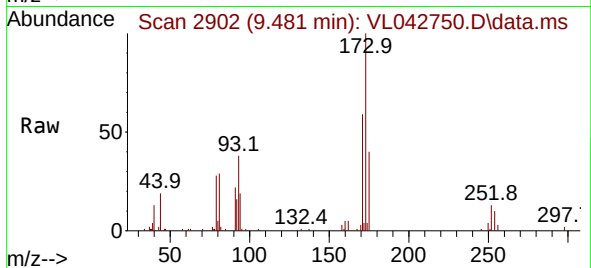
VSTDICC0.5

Tgt Ion:	173	Resp:	1080
Ion Ratio	Lower	Upper	
173	100		
175	50.1	38.4	57.6
171	53.7	40.9	61.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#50

4-Methyl-2-Pentanone

Concen: 0.486 ppbv m

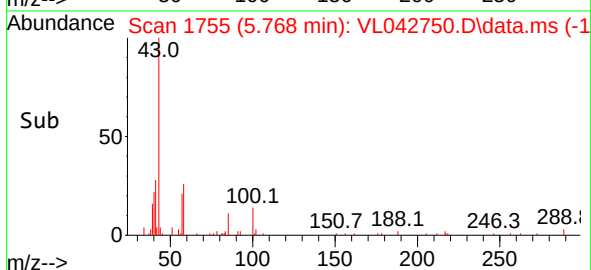
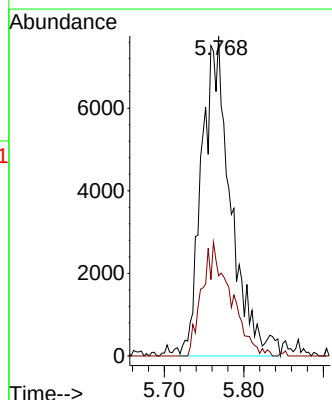
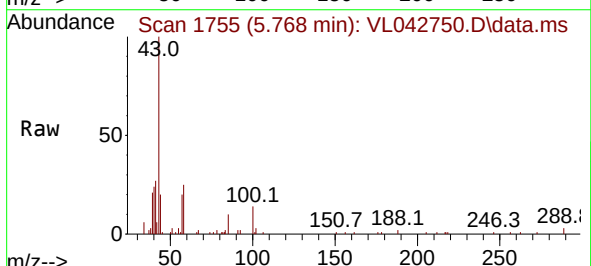
RT: 5.768 min Scan# 1755

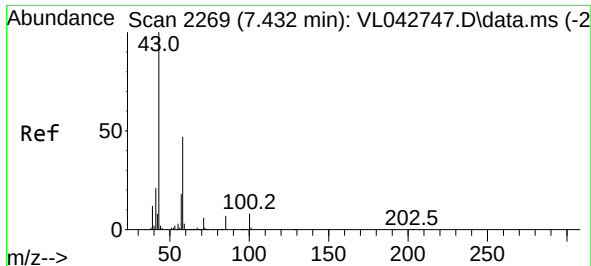
Delta R.T. 0.023 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Tgt Ion:	43	Resp:	19575
Ion Ratio	Lower	Upper	
43	100		
58	0.0	27.8	41.8





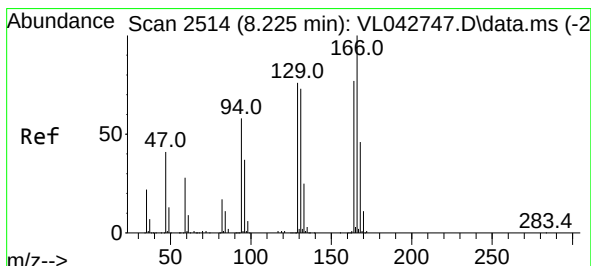
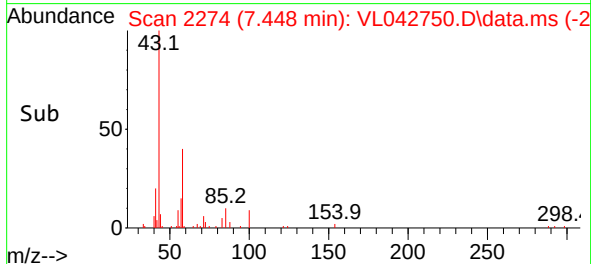
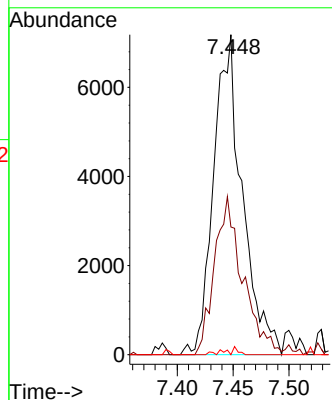
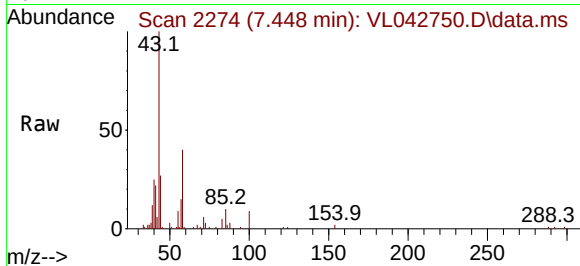
#51
2-Hexanone
Concen: 0.416 ppbv m
RT: 7.448 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 43 Resp: 1281
Ion Ratio Lower Upper
43 100
58 0.0 38.0 57.0
98 0.0 0.2 0.4

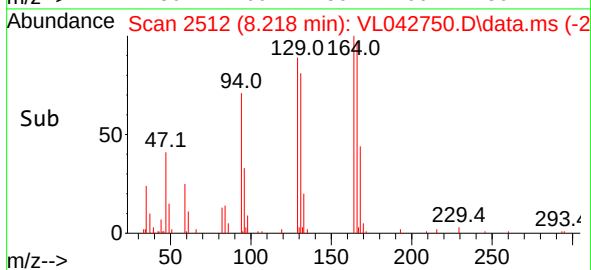
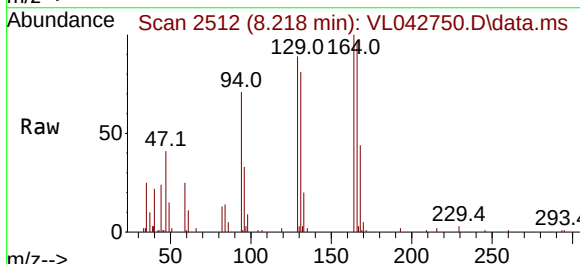
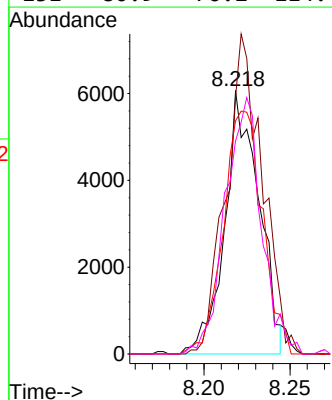
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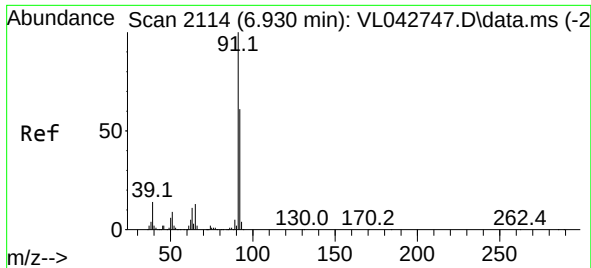
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#52
Tetrachloroethene
Concen: 0.475 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:164 Resp: 8359
Ion Ratio Lower Upper
164 100
166 97.5 104.0 156.0
129 88.5 79.2 118.8
131 80.9 76.2 114.4





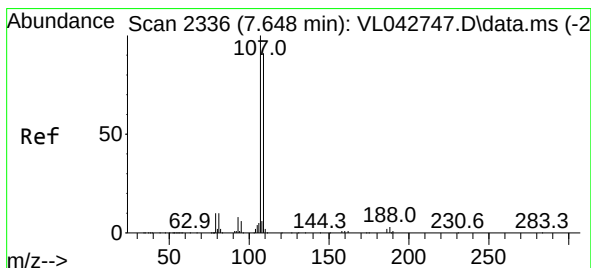
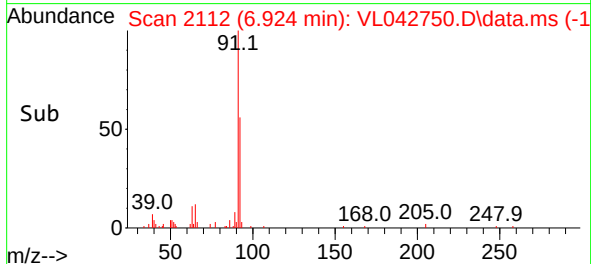
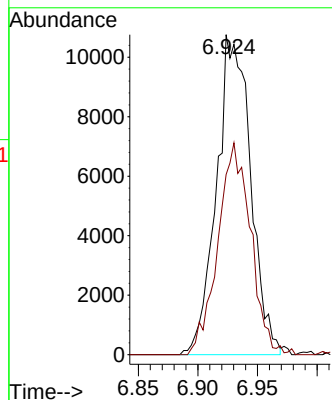
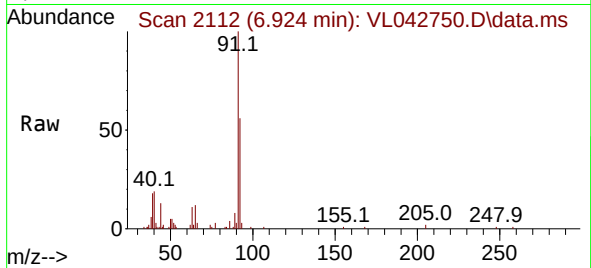
#53
Toluene
Concen: 0.469 ppbv
RT: 6.924 min Scan# 2112
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 21324
Ion Ratio Lower Upper
91 100
92 63.9 48.0 72.0

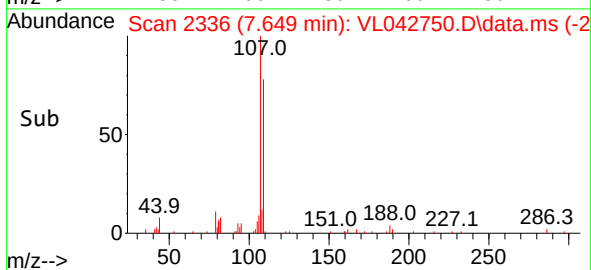
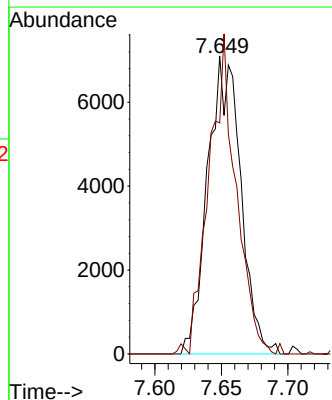
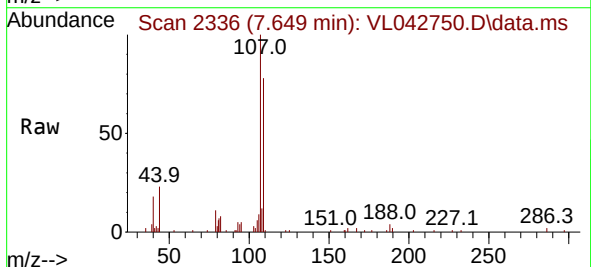
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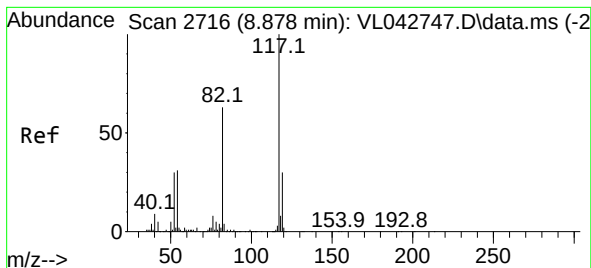
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#54
1,2-Dibromoethane
Concen: 0.521 ppbv m
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:107 Resp: 12294
Ion Ratio Lower Upper
107 100
109 77.5 72.7 109.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 2716

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

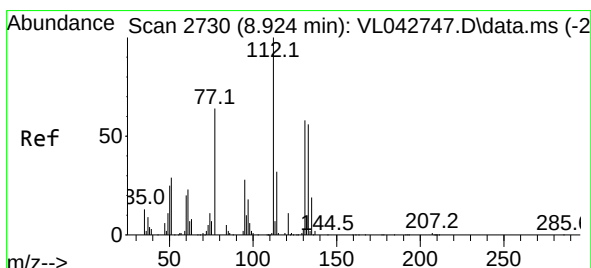
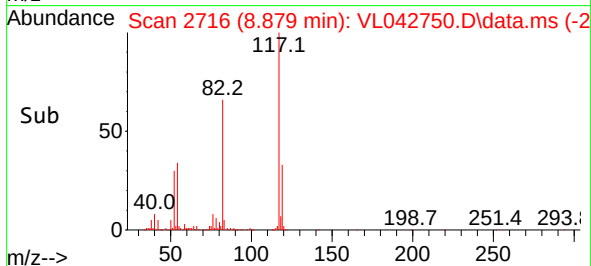
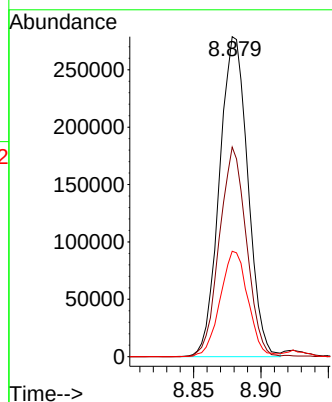
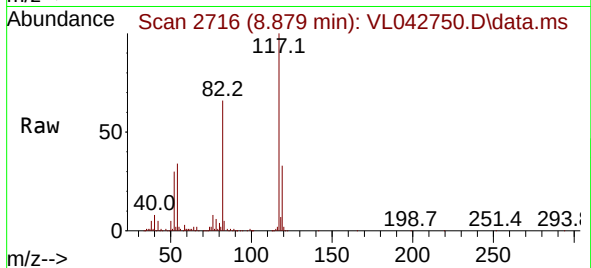
Tgt Ion:117 Resp: 408620

Ion	Ratio	Lower	Upper
117	100		
82	62.7	53.3	79.9
119	32.3	25.8	38.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 0.527 ppbv

RT: 8.924 min Scan# 2730

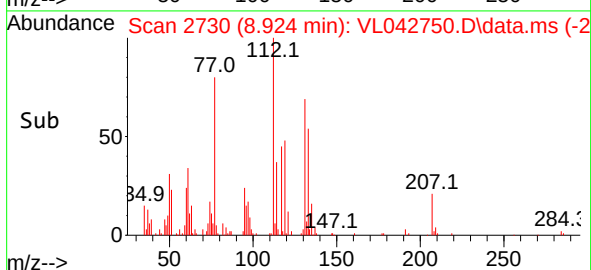
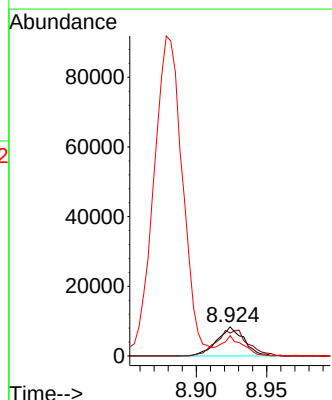
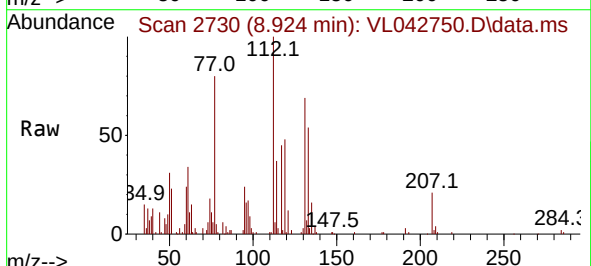
Delta R.T. 0.000 min

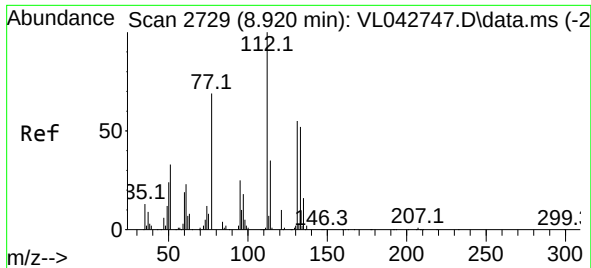
Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Tgt Ion:131 Resp: 11191

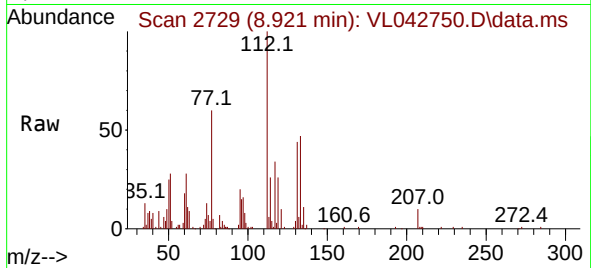
Ion	Ratio	Lower	Upper
131	100		
133	104.0	76.8	115.2
119	1231.3	49.7	74.5#





#57
Chlorobenzene
Concen: 0.527 ppbv
RT: 8.921 min Scan# 2729
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

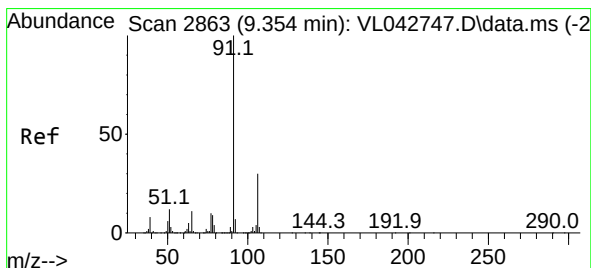
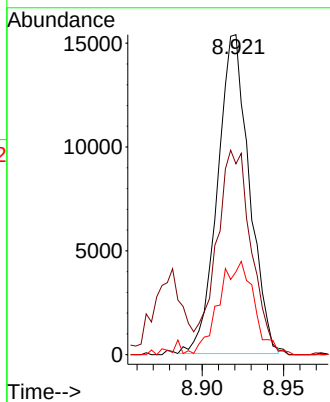
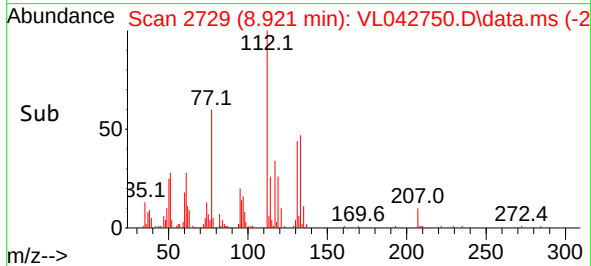
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion:112 Resp: 20828
Ion Ratio Lower Upper
112 100
77 58.4 56.4 84.6
114 23.8 31.2 38.2

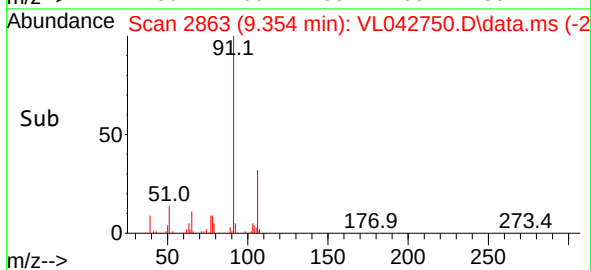
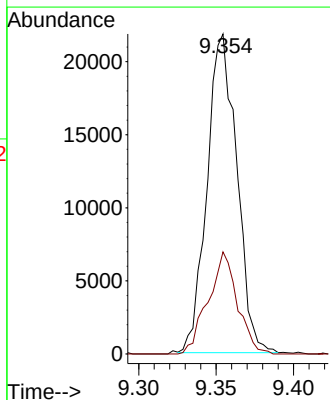
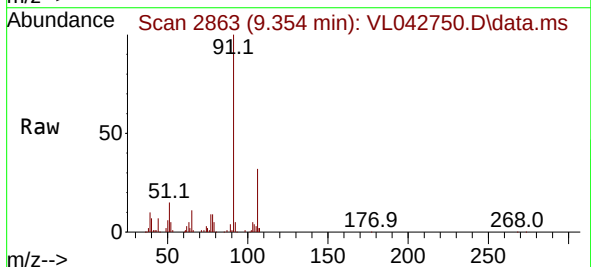
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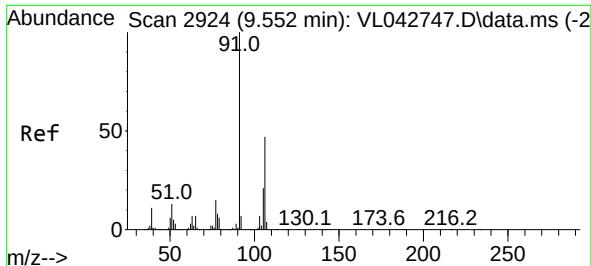
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#58
Ethyl Benzene
Concen: 0.451 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 29134
Ion Ratio Lower Upper
91 100
106 32.0 23.8 35.6





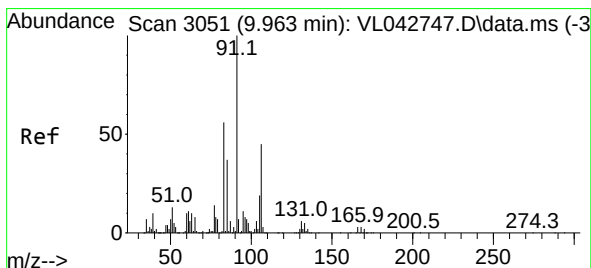
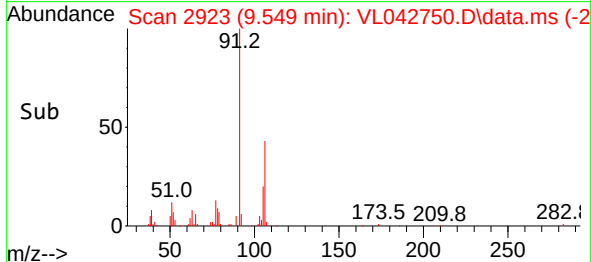
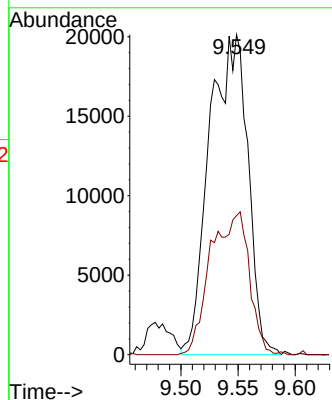
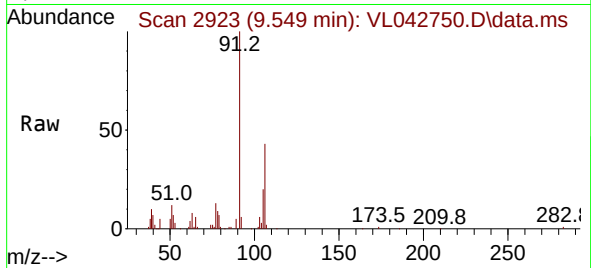
#59
m/p-Xylene
Concen: 0.912 ppbv m
RT: 9.549 min Scan# 2924
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 47028
Ion Ratio Lower Upper
91 100
106 44.9 37.4 56.2

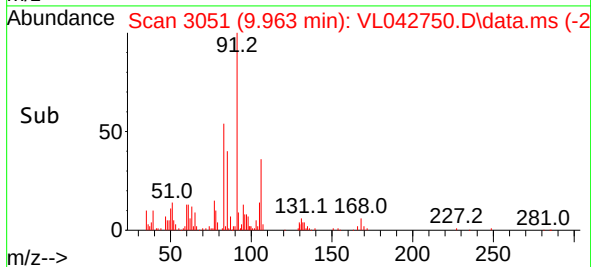
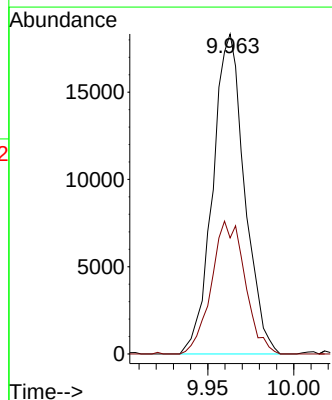
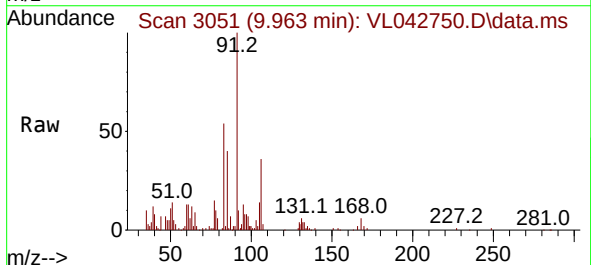
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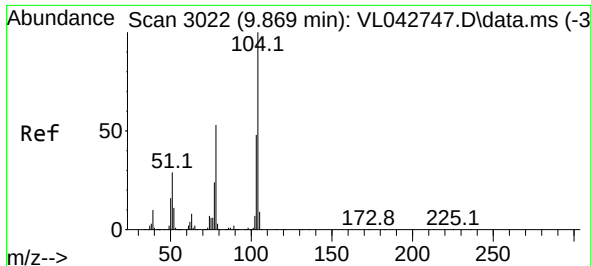
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#60
o-Xylene
Concen: 0.458 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 23603
Ion Ratio Lower Upper
91 100
106 43.8 22.0 66.0





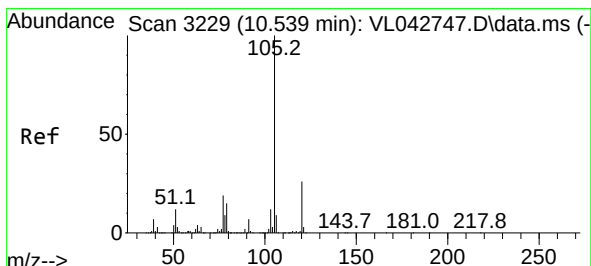
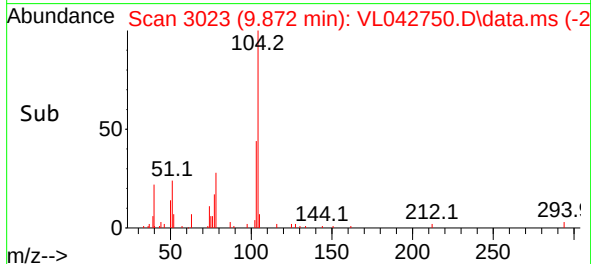
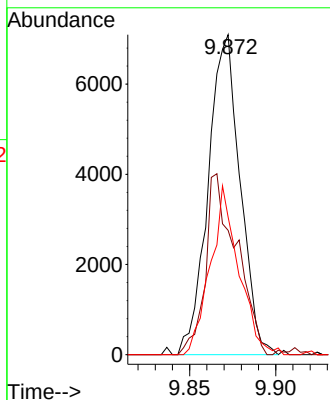
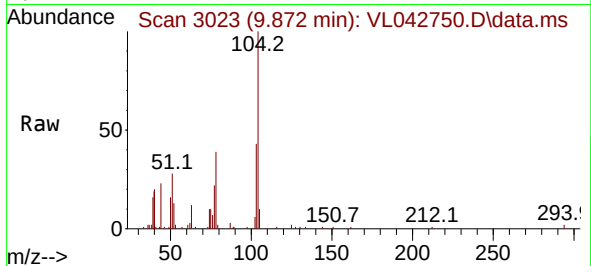
#61
Styrene
Concen: 0.424 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:104 Resp: 919
Ion Ratio Lower Upper
104 100
78 55.8 41.5 62.3
103 47.0 37.5 56.3

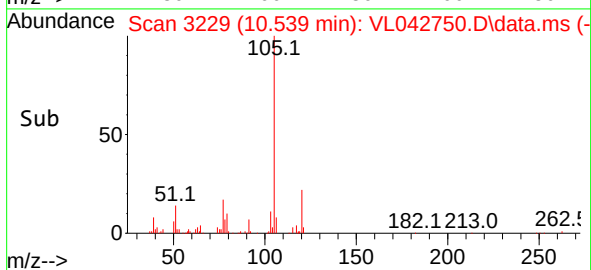
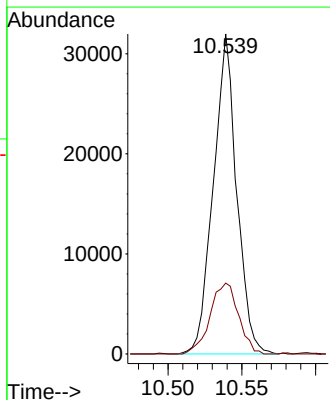
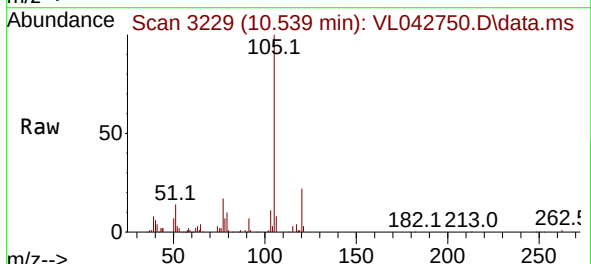
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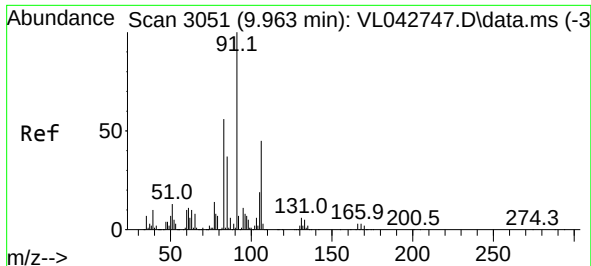
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#62
Isopropylbenzene
Concen: 0.463 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

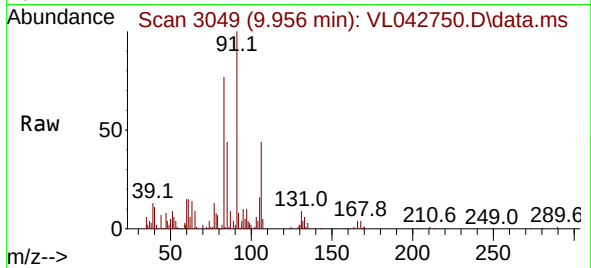
Tgt Ion:105 Resp: 35189
Ion Ratio Lower Upper
105 100
120 26.9 20.5 30.7





#63
1,1,2,2-Tetrachloroethane
Concen: 0.463 ppbv
RT: 9.956 min Scan# 3051
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

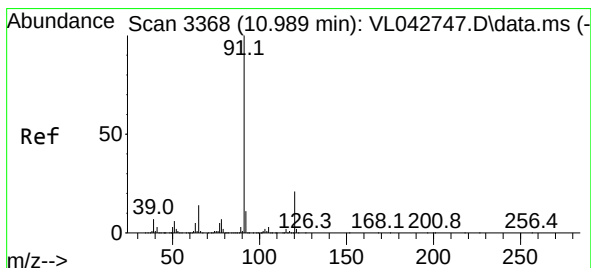
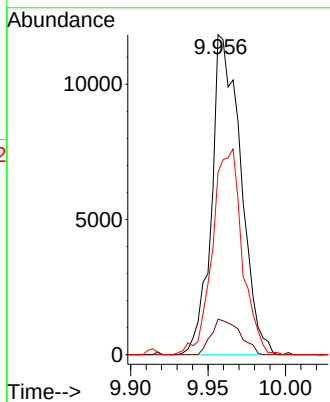
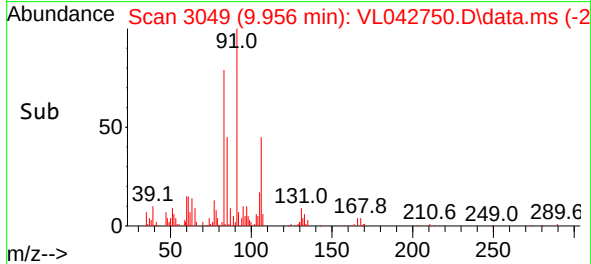
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



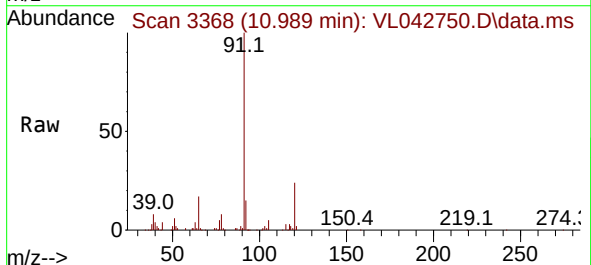
Tgt Ion: 83 Resp: 1554
Ion Ratio Lower Upper
83 100
131 11.0 5.0 15.0
85 66.1 32.6 97.7

Manual Integrations
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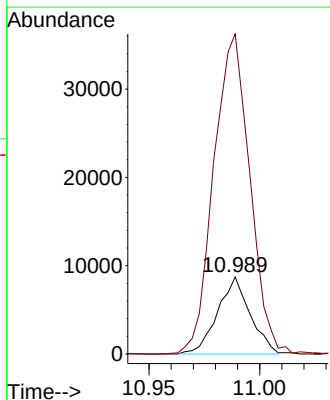
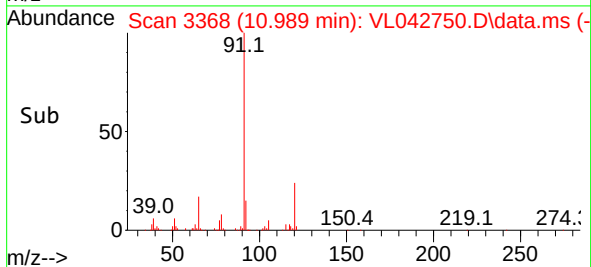
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

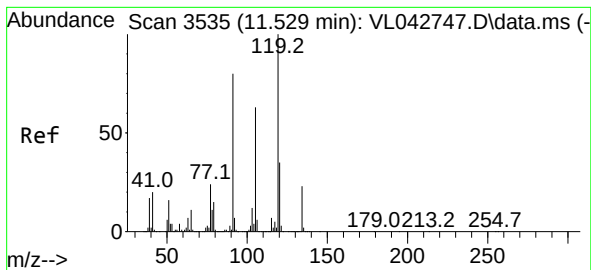


#64
n-propylbenzene
Concen: 0.450 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42



Tgt Ion:120 Resp: 8924
Ion Ratio Lower Upper
120 100
91 464.1 372.7 559.1





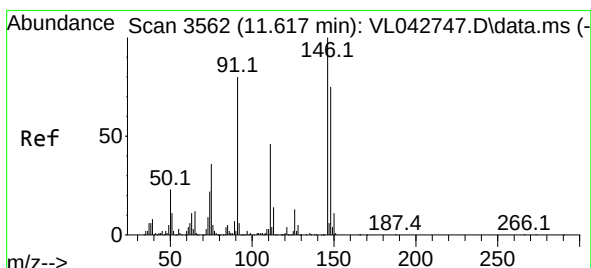
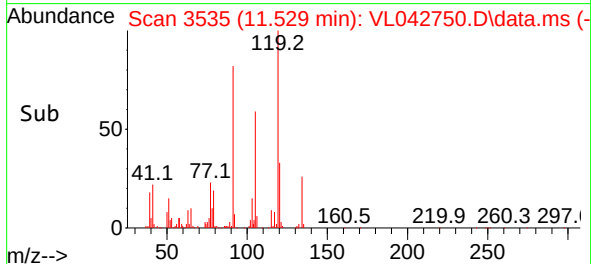
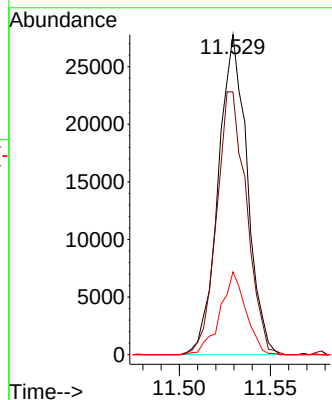
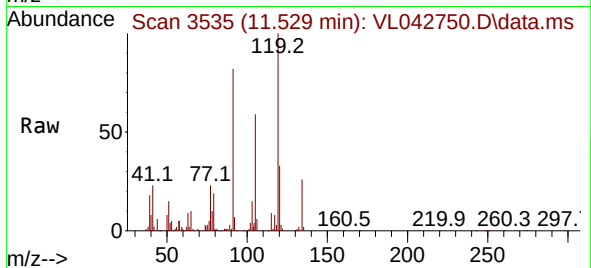
#65
tert-Butylbenzene
Concen: 0.453 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:	119	Resp:	3056
Ion Ratio	Lower	Upper	
119	100		
91	85.1	64.0	96.0
134	23.1	17.3	25.9

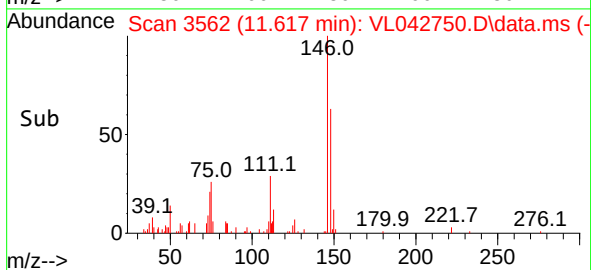
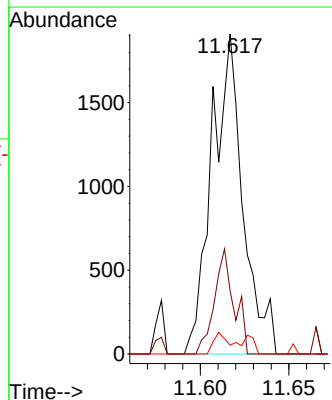
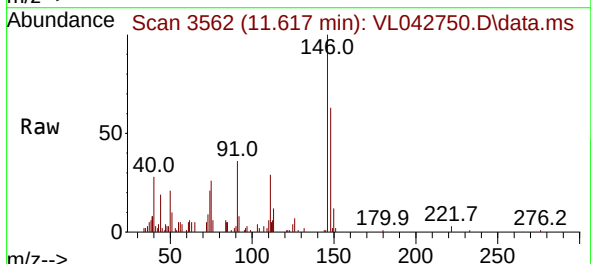
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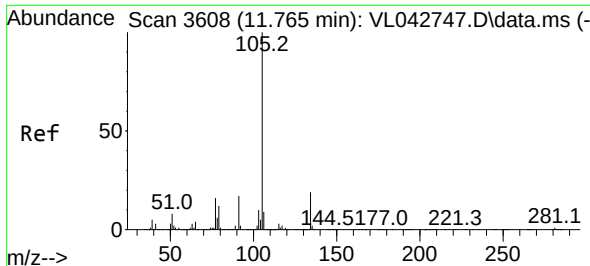
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#66
Benzyl Chloride
Concen: 0.421 ppbv m
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

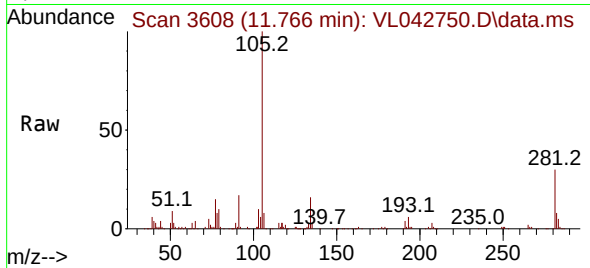
Tgt Ion:	91	Resp:	2336
Ion Ratio	Lower	Upper	
91	100		
126	20.8	14.4	21.6
128	5.6	5.2	7.8





#67
 sec-Butylbenzene
 Concen: 0.460 ppbv
 RT: 11.766 min Scan# 3608
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

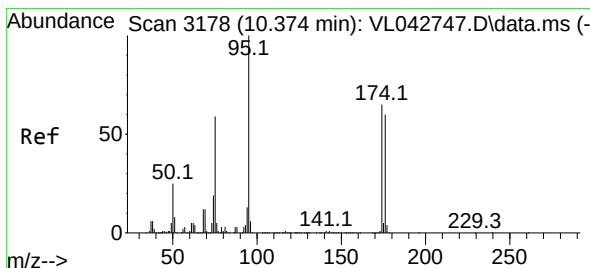
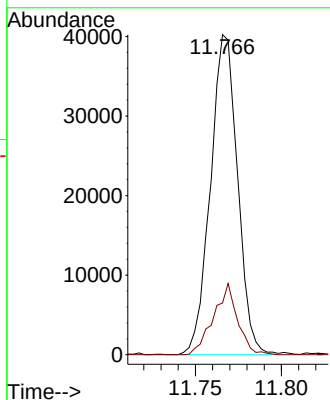
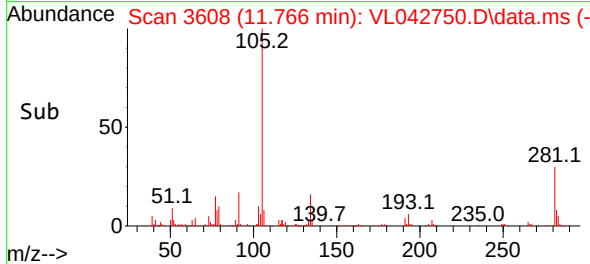
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:105 Resp: 44169
 Ion Ratio Lower Upper
 105 100
 134 19.6 15.5 23.3

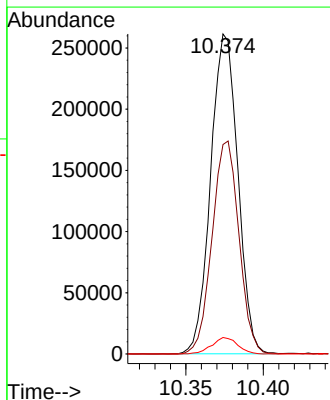
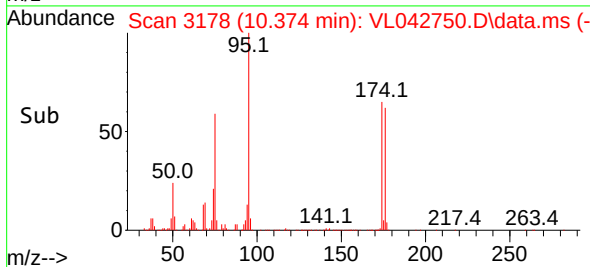
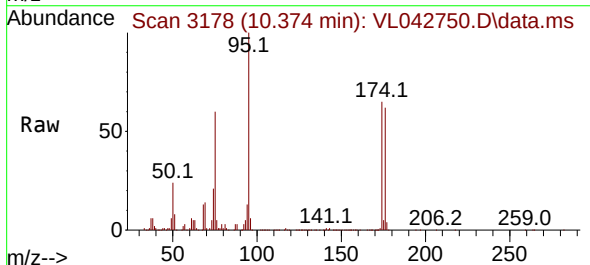
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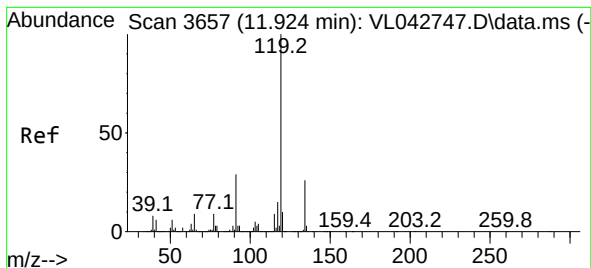
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.869 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion: 95 Resp: 319353
 Ion Ratio Lower Upper
 95 100
 174 65.8 53.8 80.6
 175 4.9 4.0 6.0





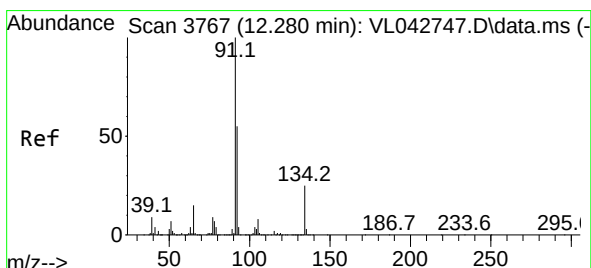
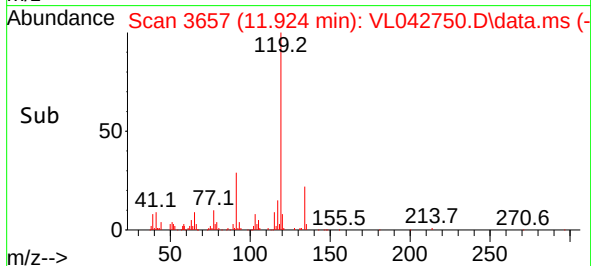
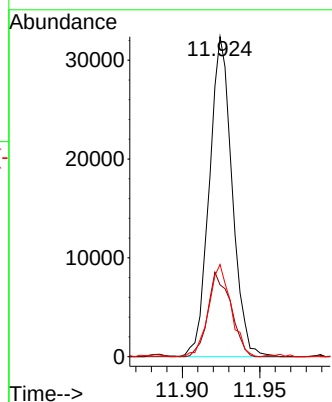
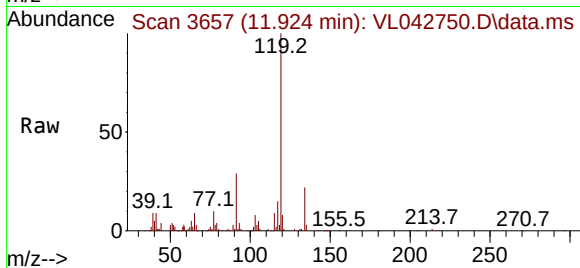
#69
p-Isopropyltoluene
Concen: 0.423 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 119 Resp: 33104
Ion Ratio Lower Upper
119 100
134 26.8 20.6 31.0
91 28.8 23.2 34.8

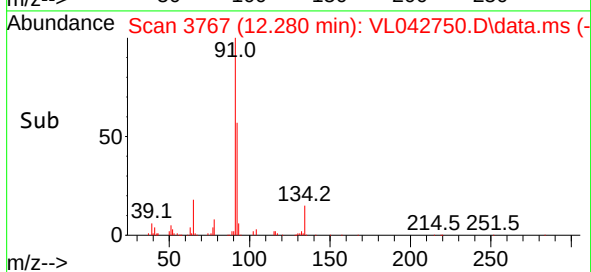
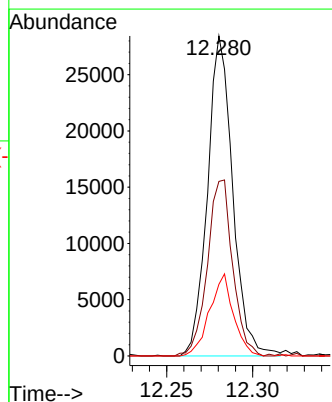
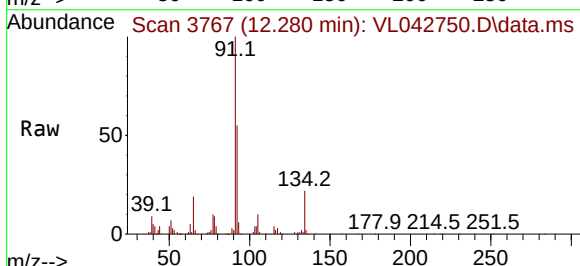
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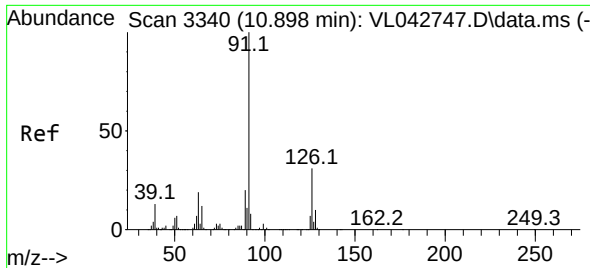
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#70
n-Butylbenzene
Concen: 0.384 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 29048
Ion Ratio Lower Upper
91 100
92 55.5 43.4 65.2
134 24.3 19.6 29.4





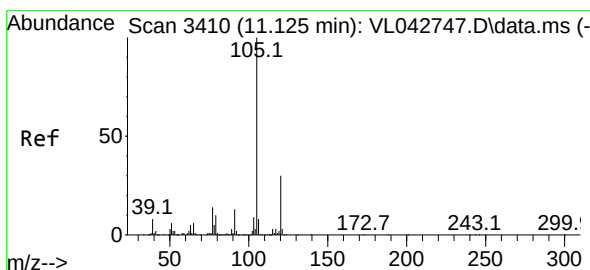
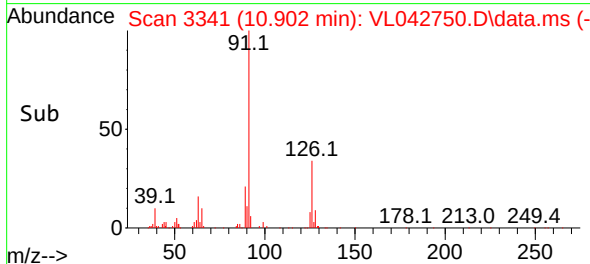
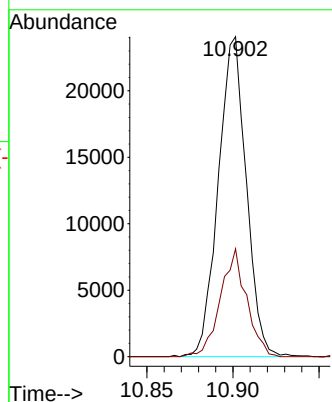
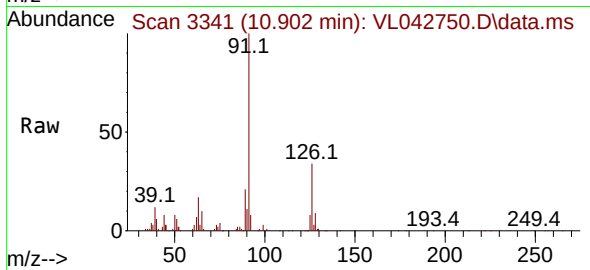
#71
2-Chlorotoluene
Concen: 0.466 ppbv
RT: 10.902 min Scan# 3341
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 27184
Ion Ratio Lower Upper
91 100
126 31.7 12.0 48.2

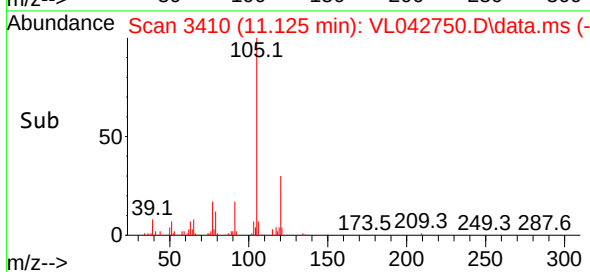
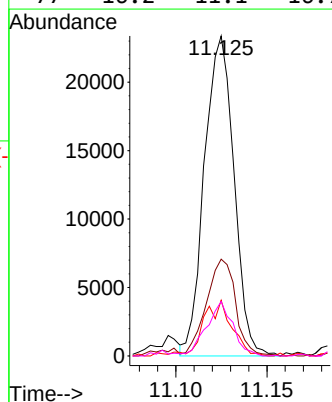
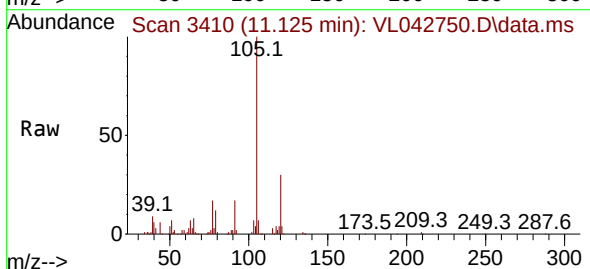
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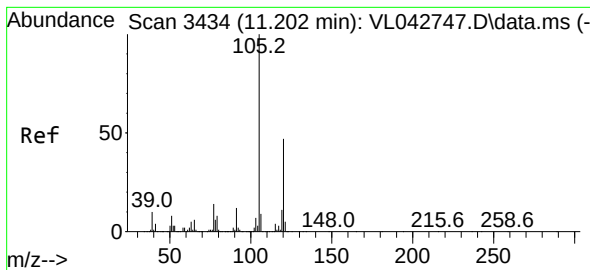
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#72
4-Ethyltoluene
Concen: 0.429 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:105 Resp: 26395
Ion Ratio Lower Upper
105 100
120 31.6 24.4 36.6
91 17.0 10.6 15.8#
77 16.2 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.442 ppbv

RT: 11.206 min Scan# 3434

Delta R.T. 0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 22392

Ion Ratio Lower Upper

105 100

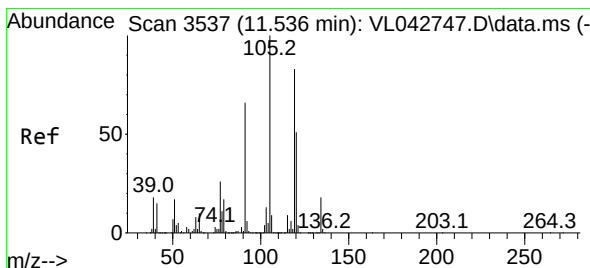
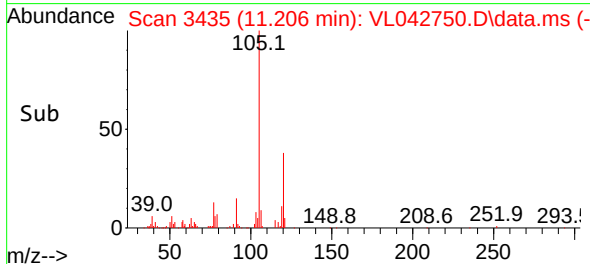
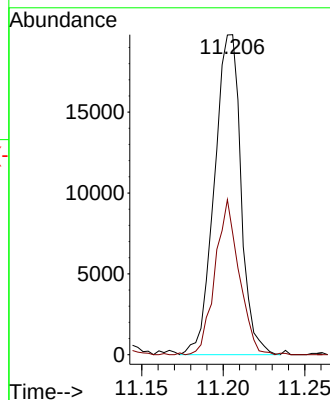
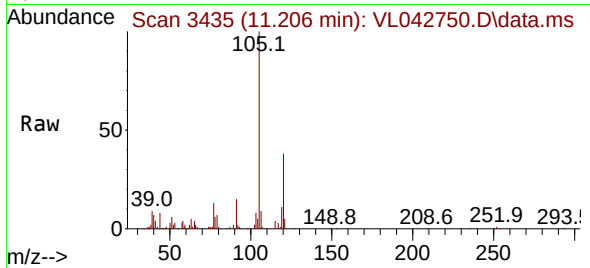
120 37.5 37.8 56.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.412 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Tgt Ion:105 Resp: 22772

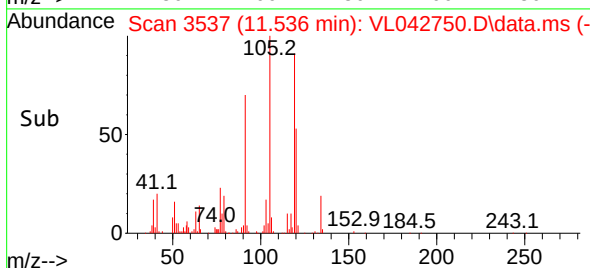
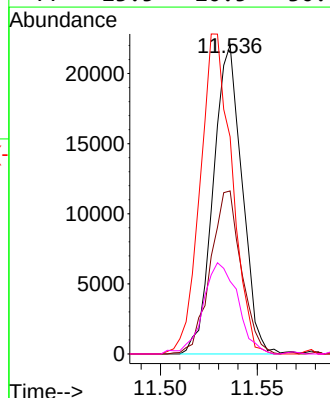
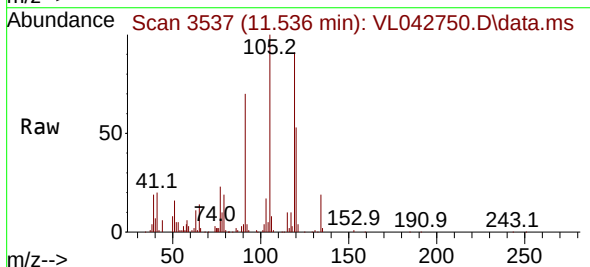
Ion Ratio Lower Upper

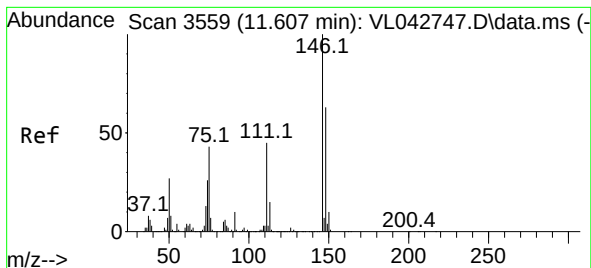
105 100

120 52.7 40.8 61.2

91 70.3 53.0 79.4

77 23.5 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 0.482 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

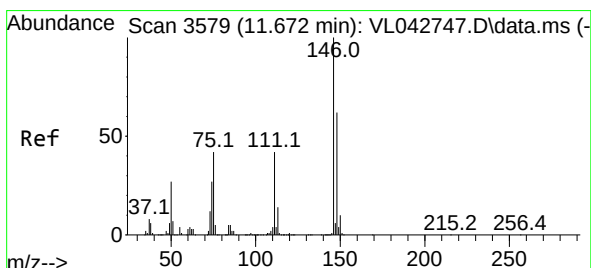
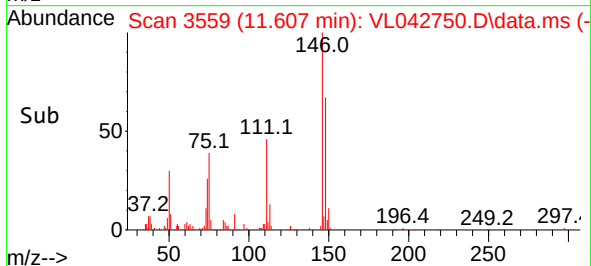
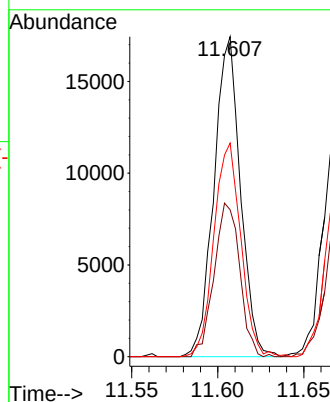
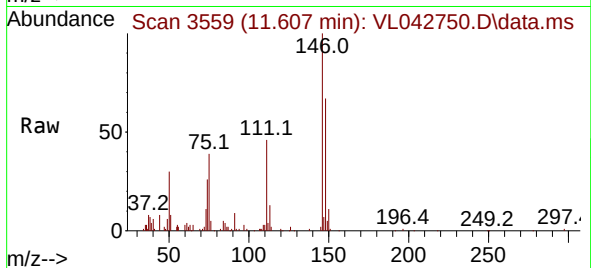
VSTDICC0.5

Tgt Ion:146 Resp: 18680
 Ion Ratio Lower Upper
 146 100
 111 46.6 22.7 68.0
 148 67.7 31.9 95.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#76

1,4-Dichlorobenzene

Concen: 0.465 ppbv

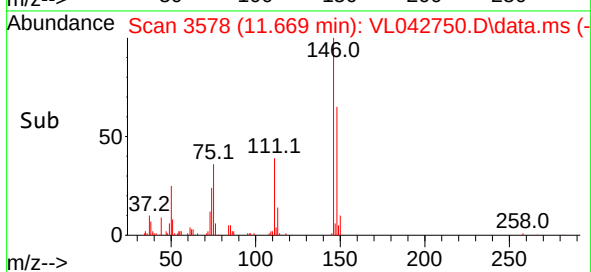
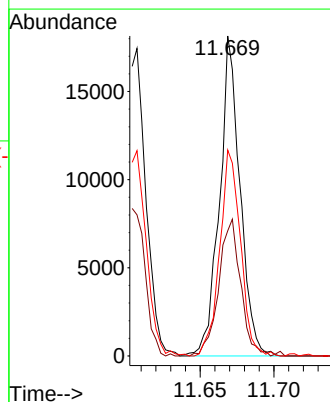
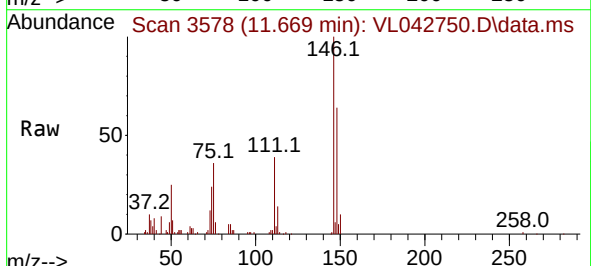
RT: 11.669 min Scan# 3578

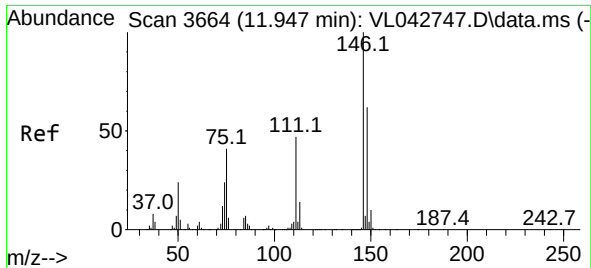
Delta R.T. -0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Tgt Ion:146 Resp: 17616
 Ion Ratio Lower Upper
 146 100
 111 45.9 21.4 64.2
 148 65.4 32.1 96.3





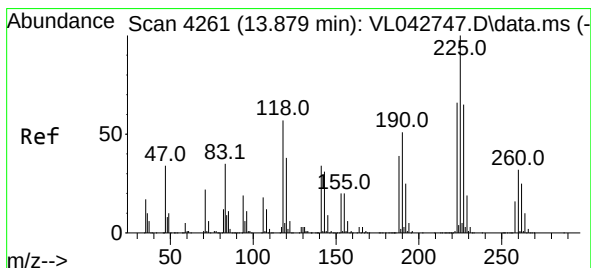
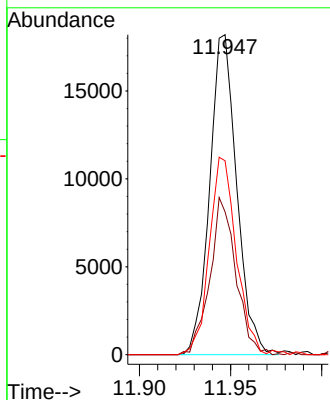
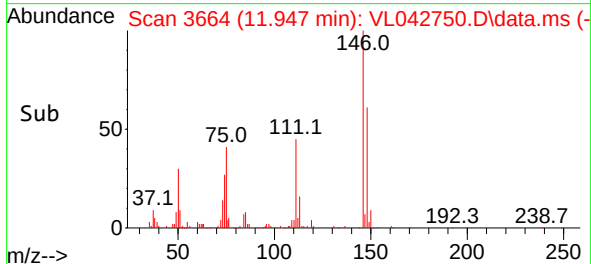
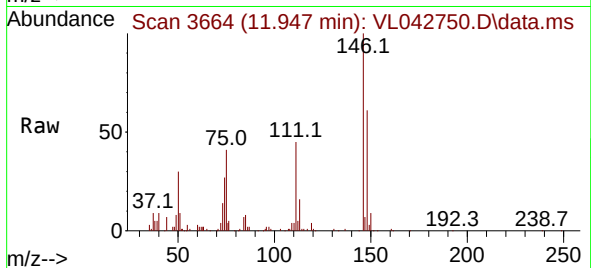
#77
1,2-Dichlorobenzene
Concen: 0.494 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:146 Resp: 18799
Ion Ratio Lower Upper
146 100
111 47.9 23.7 71.1
148 62.3 32.6 97.7

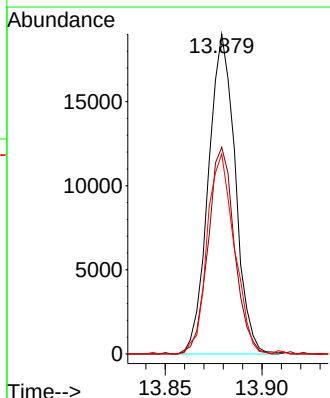
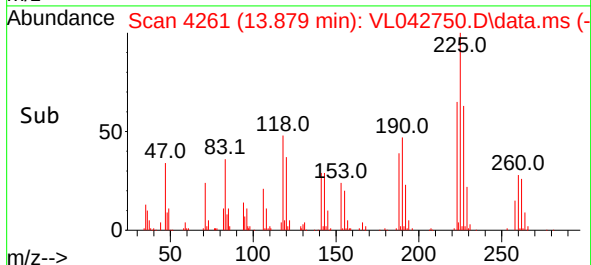
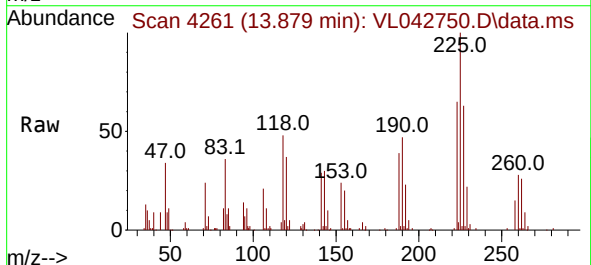
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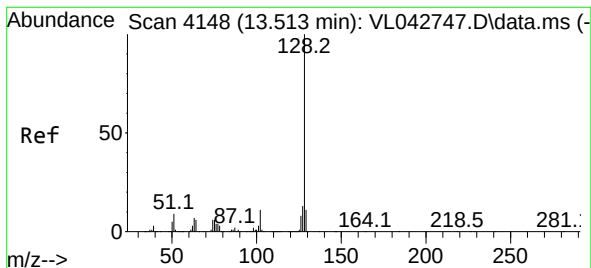
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#78
Hexachloro-1,3-Butadiene
Concen: 0.532 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:225 Resp: 18330
Ion Ratio Lower Upper
225 100
223 63.7 50.7 76.1
227 63.7 50.5 75.7





#79

Naphthalene

Concen: 0.592 ppbv

RT: 13.514 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

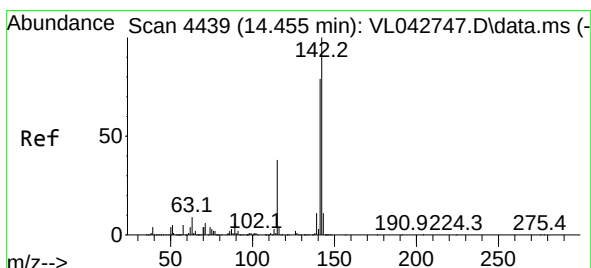
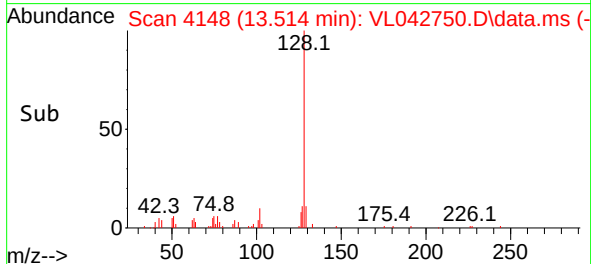
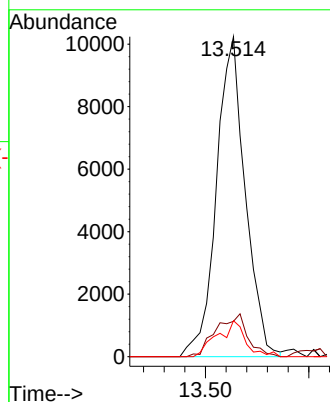
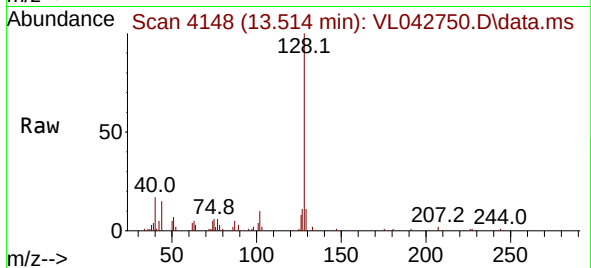
VSTDIC0.5

Tgt Ion:	128	Resp:	9910
Ion Ratio	Lower	Upper	
128	100		
127	11.1	10.5	15.7
129	11.2	8.6	13.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#80

Naphthalene,2-methyl-

Concen: 1.148 ppbv

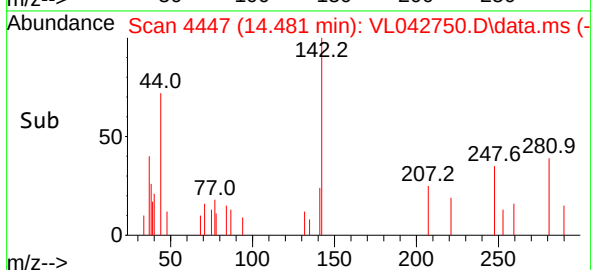
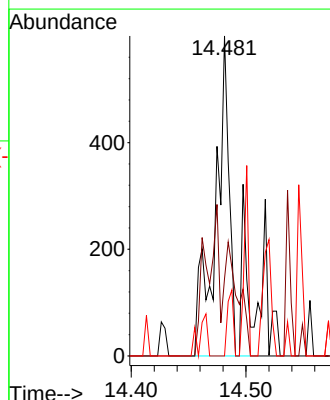
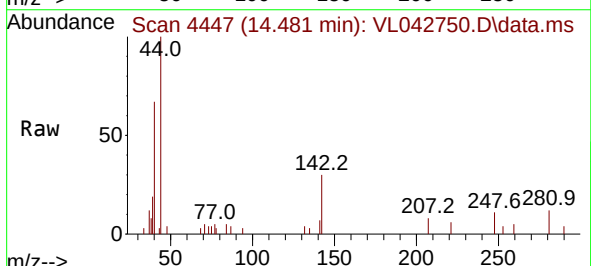
RT: 14.481 min Scan# 4447

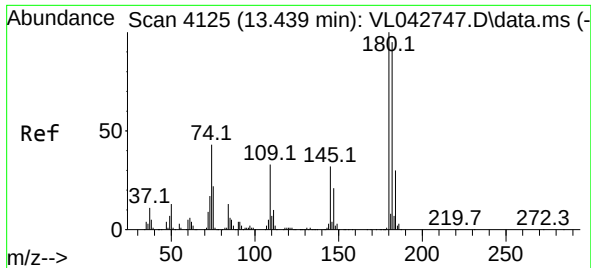
Delta R.T. 0.026 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

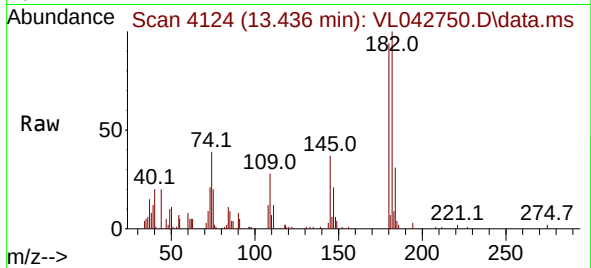
Tgt Ion:	142	Resp:	731
Ion Ratio	Lower	Upper	
142	100		
141	54.6	65.8	98.8#
115	5.2	31.2	46.8#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.645 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

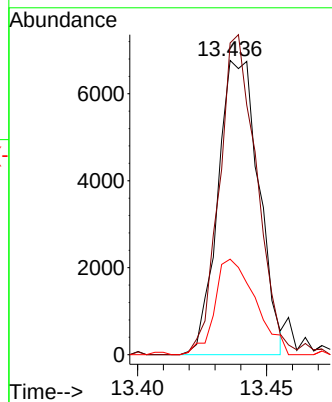
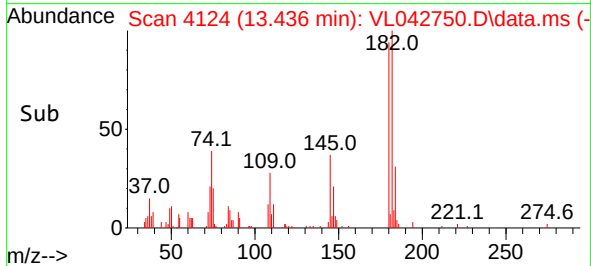
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5



Tgt Ion:180 Resp: 745
 Ion Ratio Lower Upper
 180 100
 182 100.9 76.2 114.2
 184 33.0 24.8 37.2

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Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042752.D
 Acq On : 23 Jul 2025 11:50
 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 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:59:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	151834	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	432802	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	387541	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	302164	9.845	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	376	0.047	ppbv	# 68
32) 1,1,1-Trichloroethane	3.366	97	1149m	0.035	ppbv	
35) Carbon Tetrachloride	3.755	117	1233m	0.038	ppbv	
38) Trichloroethene	4.535	130	664m	0.034	ppbv	
52) Tetrachloroethene	8.215	164	654m	0.038	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.959	83	1285m	0.040	ppbv	

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

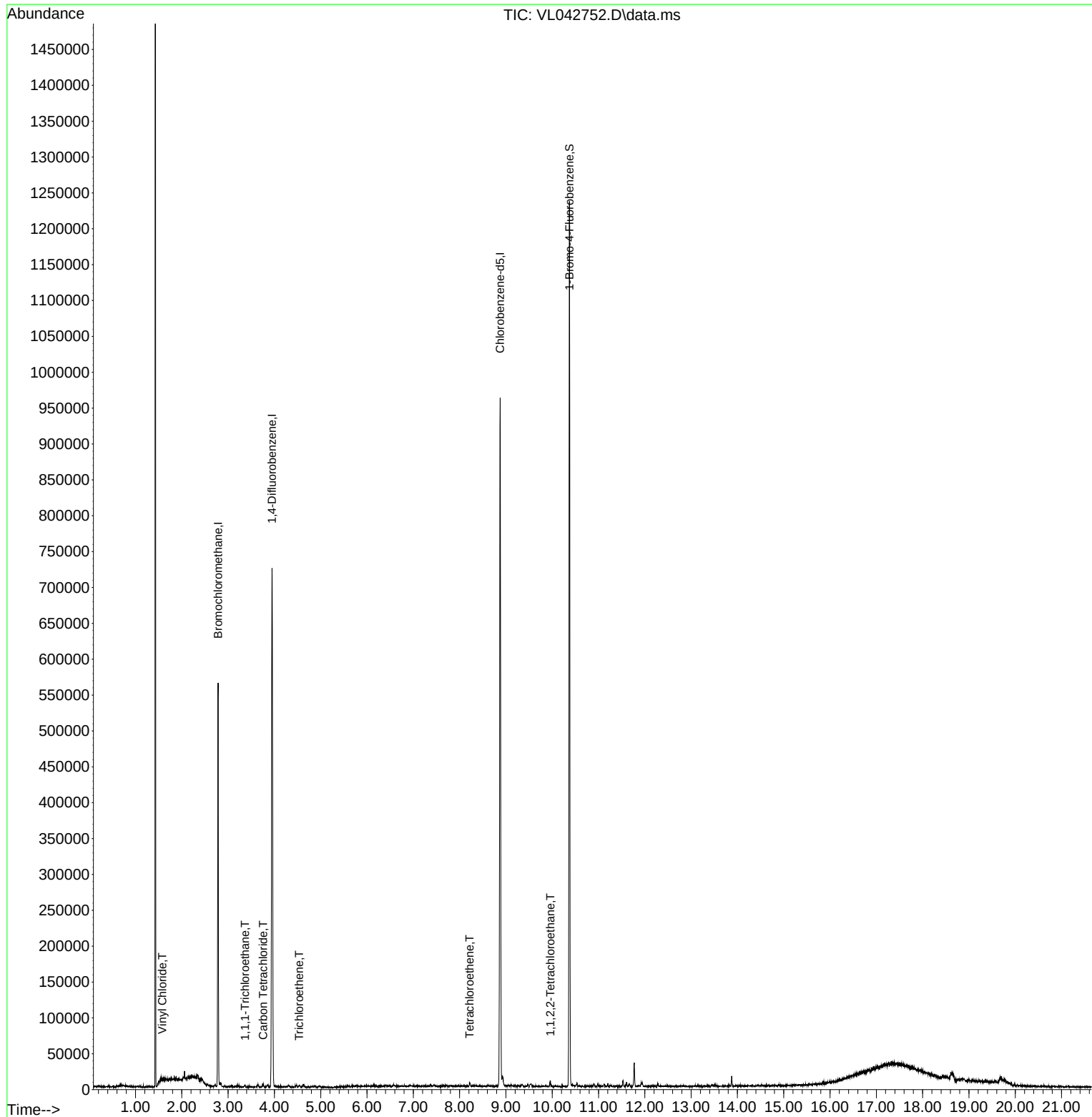
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042752.D
Acq On : 23 Jul 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

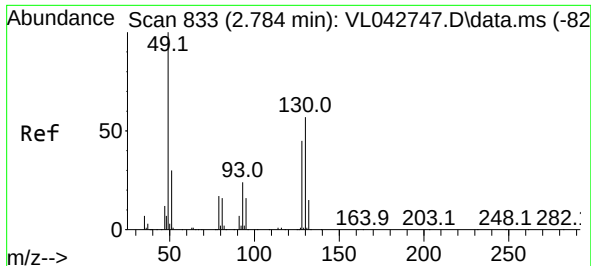
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jul 24 04:59:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

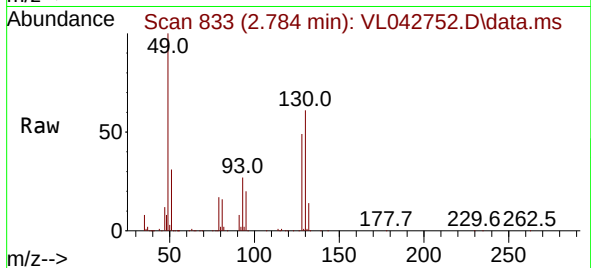
Reviewed By : Semsettin Yesilyurt 07/24/2025
Supervised By : Mahesh Dadoda 07/24/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

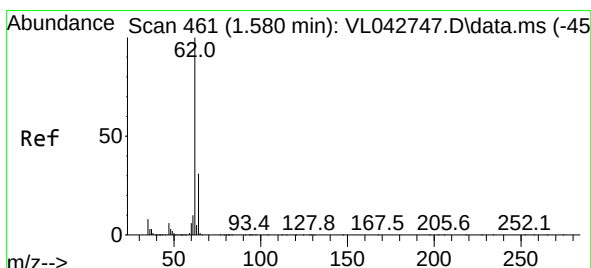
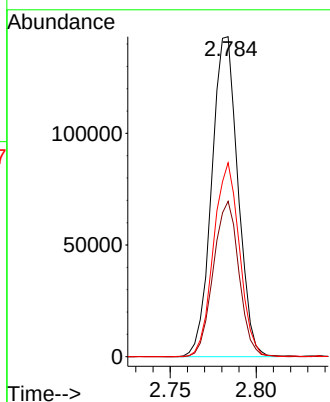
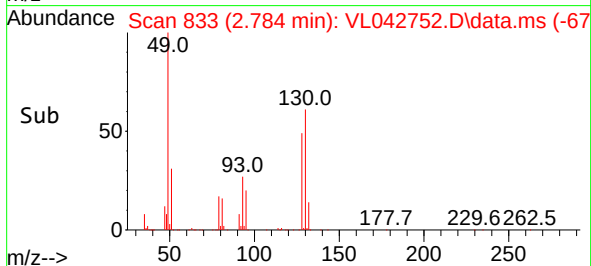
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



Tgt Ion: 49 Resp: 151834
Ion Ratio Lower Upper
49 100
128 47.5 23.6 71.0
130 60.2 30.3 90.8

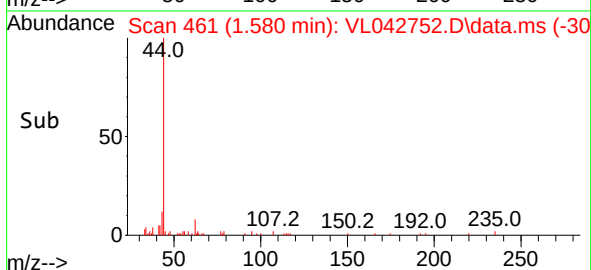
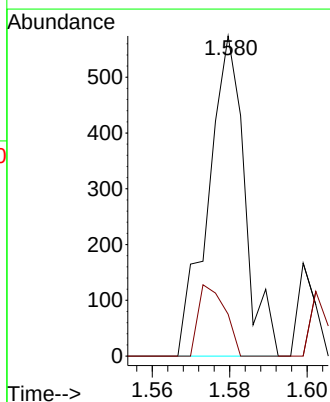
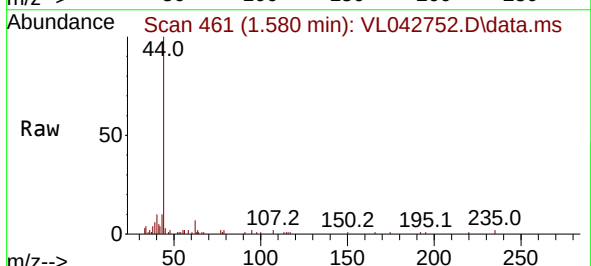
Manual Integrations
APPROVED

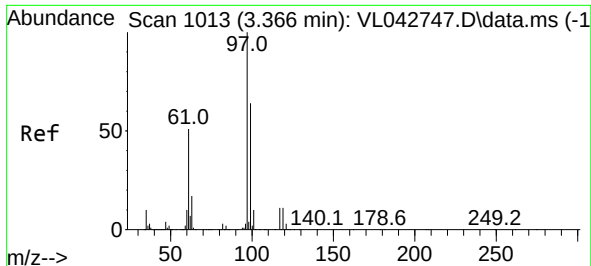
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#5
Vinyl Chloride
Concen: 0.047 ppbv
RT: 1.580 min Scan# 461
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

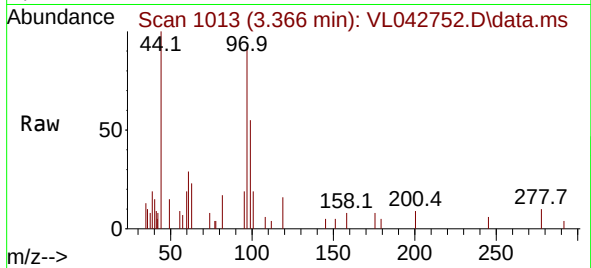
Tgt Ion: 62 Resp: 376
Ion Ratio Lower Upper
62 100
64 13.1 24.5 36.7#





#32
 1,1,1-Trichloroethane
 Concen: 0.035 ppbv m
 RT: 3.366 min Scan# 1013
 Delta R.T. -0.000 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

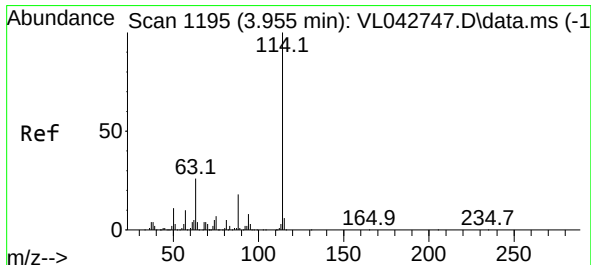
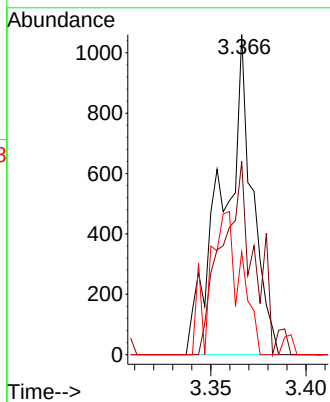
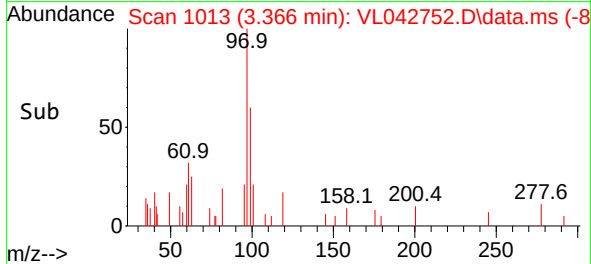
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03



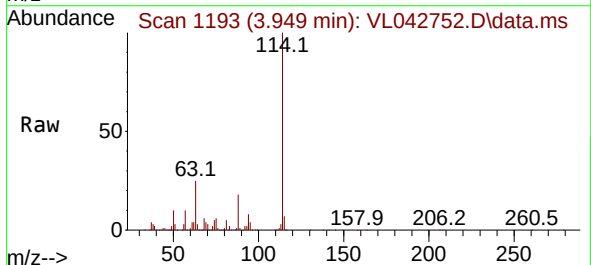
Tgt Ion: 97 Resp: 1149
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.0 76.6
 61 48.9 40.9 61.3

Manual Integrations
 APPROVED

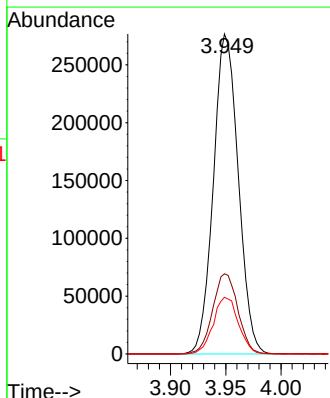
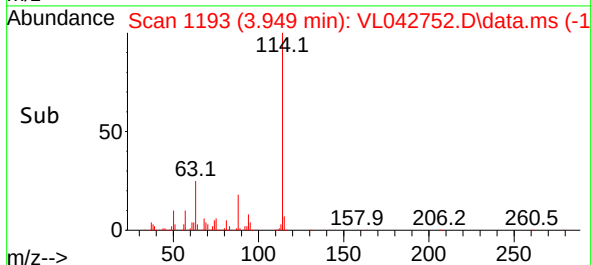
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

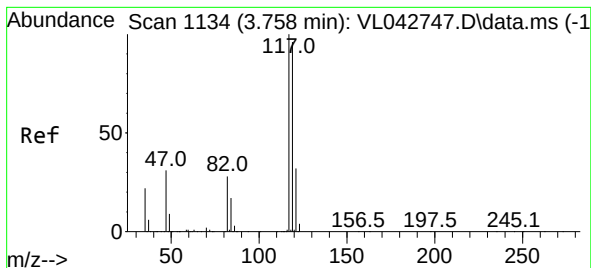


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.949 min Scan# 1193
 Delta R.T. -0.007 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50



Tgt Ion:114 Resp: 432802
 Ion Ratio Lower Upper
 114 100
 63 25.4 20.5 30.7
 88 17.9 14.0 21.0





#35

Carbon Tetrachloride

Concen: 0.038 ppbv m

RT: 3.755 min Scan# 1133

Delta R.T. -0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

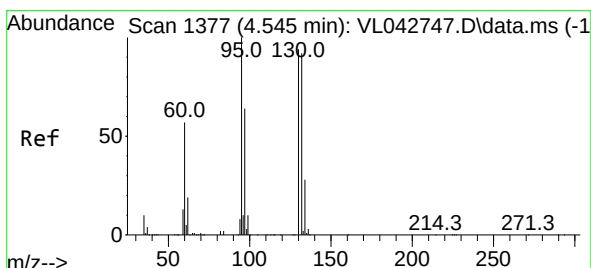
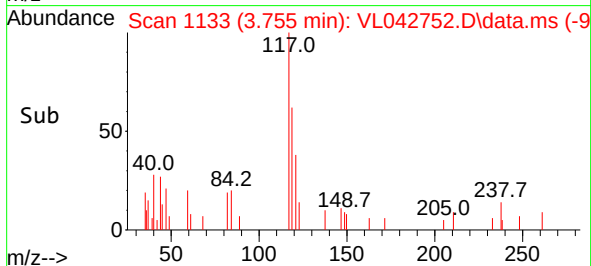
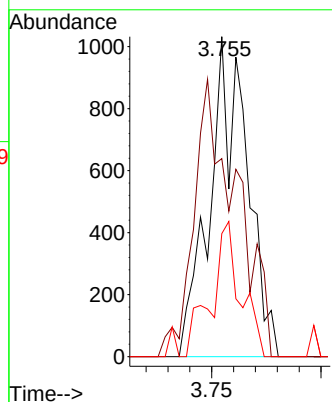
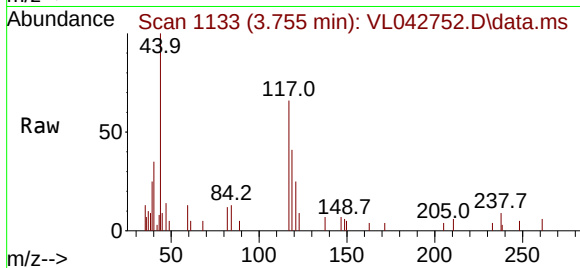
Tgt Ion:	117	Resp:	123
Ion	Ratio	Lower	Upper
117	100		
119	61.9	77.1	115.7
121	38.5	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#38

Trichloroethene

Concen: 0.034 ppbv m

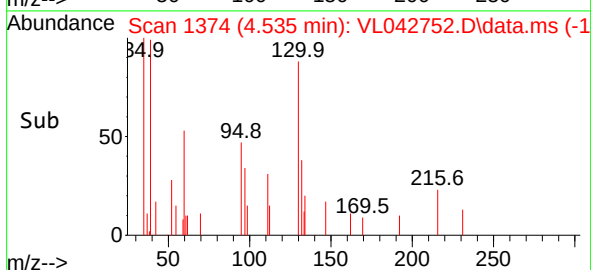
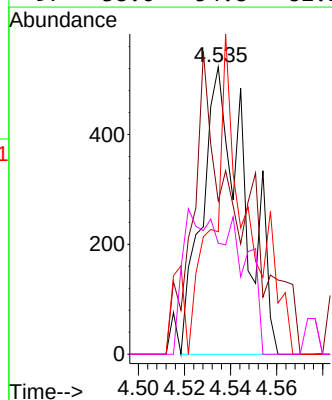
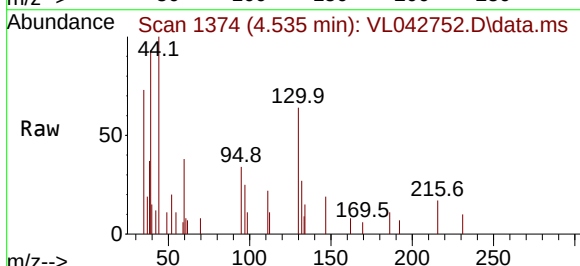
RT: 4.535 min Scan# 1374

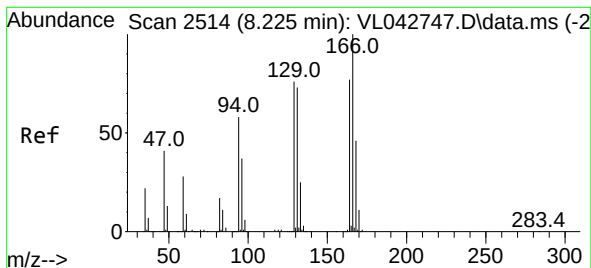
Delta R.T. -0.010 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

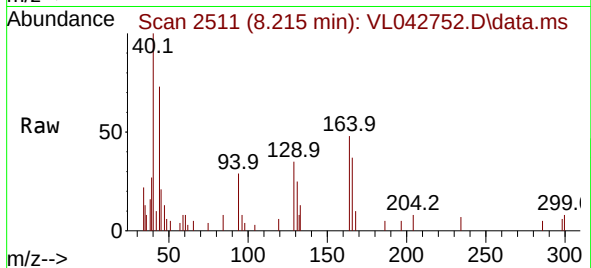
Tgt Ion:	130	Resp:	664
Ion	Ratio	Lower	Upper
130	100		
95	53.3	85.4	128.2#
132	42.6	78.2	117.2#
97	38.6	54.8	82.2#





#52
Tetrachloroethene
Concen: 0.038 ppbv m
RT: 8.215 min Scan# 2115
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

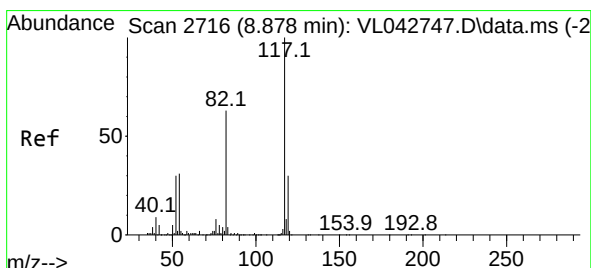
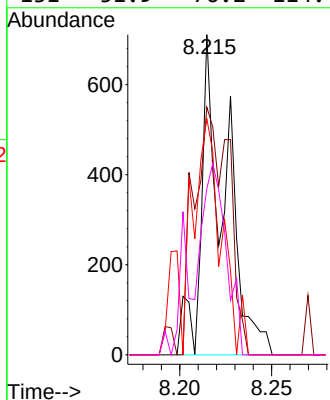
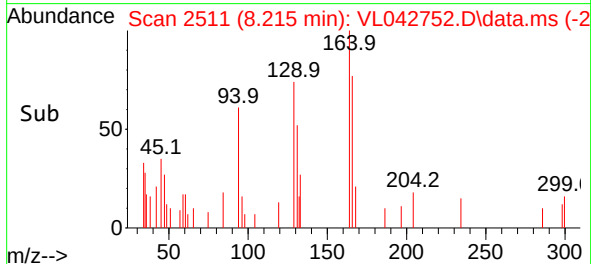
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



Tgt Ion:164 Resp: 654
Ion Ratio Lower Upper
164 100
166 77.4 104.0 156.0
129 73.7 79.2 118.8
131 51.9 76.2 114.4

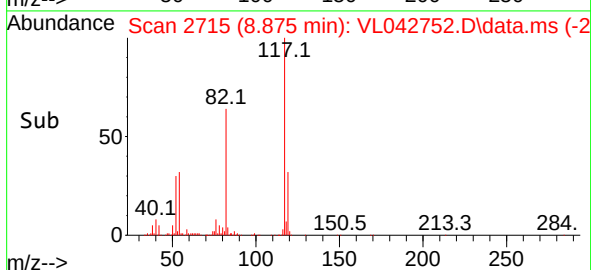
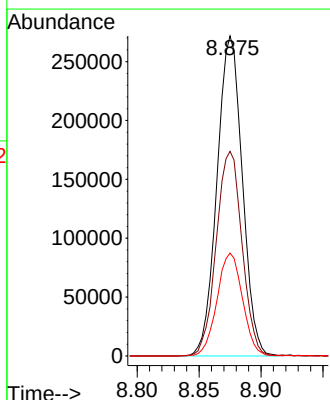
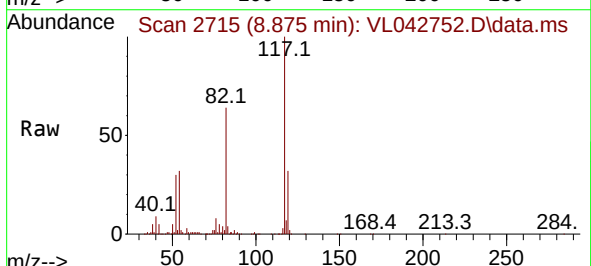
Manual Integrations
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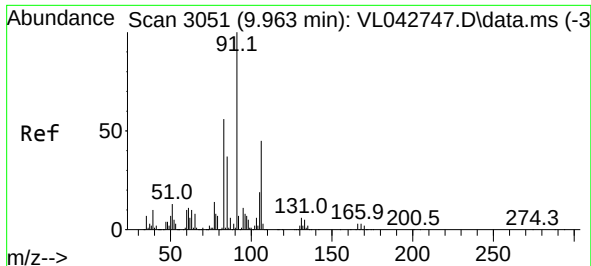
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

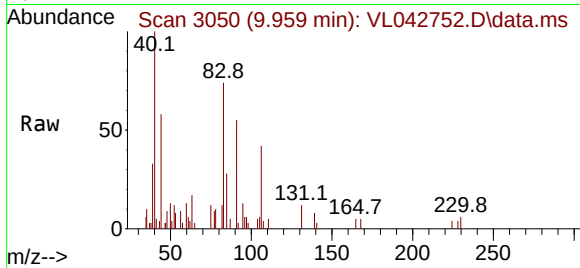
Tgt Ion:117 Resp: 387541
Ion Ratio Lower Upper
117 100
82 65.0 53.3 79.9
119 32.6 25.8 38.6





#63
1,1,2,2-Tetrachloroethane
Concen: 0.040 ppbv m
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

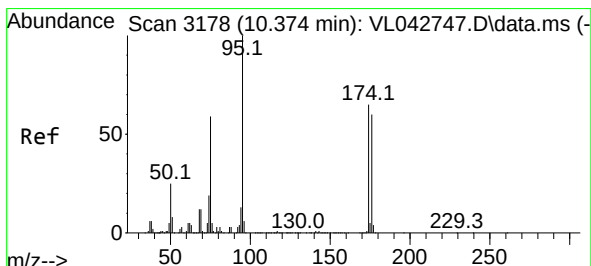
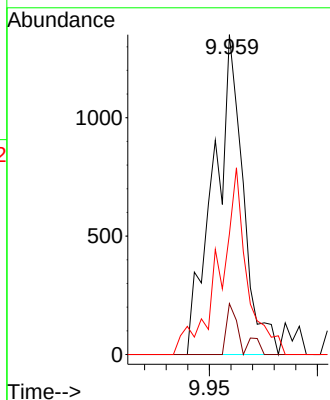
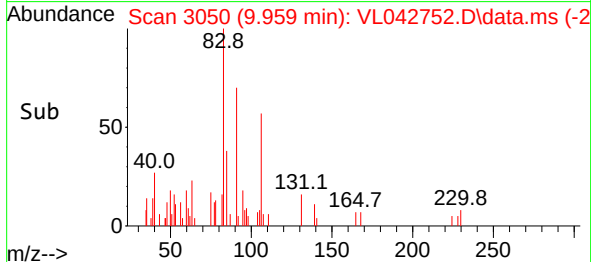
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



Tgt Ion: 83 Resp: 1285
Ion Ratio Lower Upper
83 100
131 7.5 5.0 15.0
85 54.6 32.6 97.7

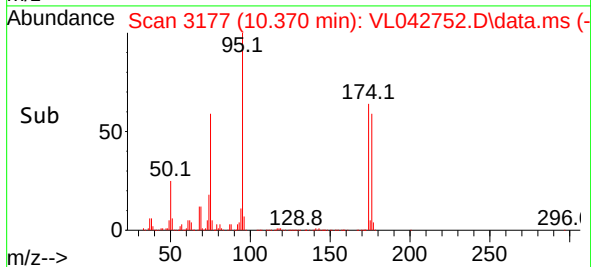
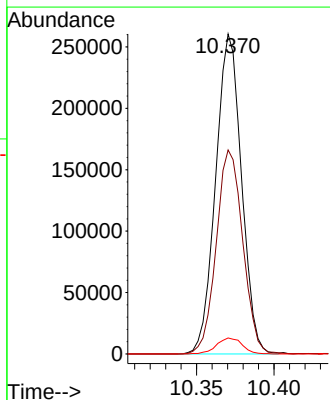
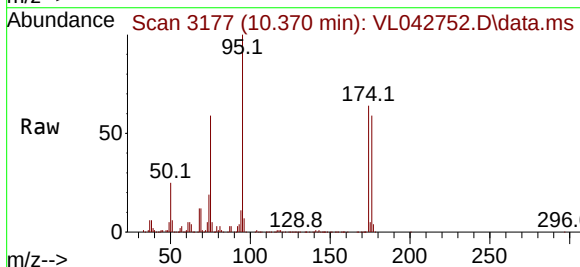
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.845 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 95 Resp: 302164
Ion Ratio Lower Upper
95 100
174 65.6 53.8 80.6
175 5.0 4.0 6.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042753.D
 Acq On : 23 Jul 2025 12:26
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:00:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	150331	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	427438	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	385223	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 315293 10.335 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	277045	13.938	ppbv	98
3) Chlorodifluoromethane	1.473	51	353451	13.651	ppbv	98
4) Chloromethane	1.531	50	111684	13.889	ppbv	96
5) Vinyl Chloride	1.577	62	98596	12.410	ppbv	96
6) Bromomethane	1.667	94	44144	14.372	ppbv	92
7) Chloroethane	1.703	64	40909	13.327	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	229298	14.028	ppbv	99
9) Propene	1.483	41	129069	13.716	ppbv	99
10) Heptane	4.972	43	368612	14.563	ppbv	99
11) Trichlorofluoromethane	1.874	101	289764	14.143	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	223552	14.358	ppbv	99
13) Ethanol	1.719	45	11145	15.142	ppbv	86
14) Bromoethene	1.780	108	77435	14.047	ppbv	98
15) Acetone	1.832	43	237665	11.449	ppbv	98
16) 1,3-Butadiene	1.606	39	118252	13.355	ppbv	99
17) tert-Butyl alcohol	2.036	59	260587	13.919	ppbv	98
18) 1,1-Dichloroethene	2.030	96	94140	13.382	ppbv	93
19) Isopropyl Alcohol	1.881	45	149463	13.549	ppbv	99
20) Methylene Chloride	2.059	84	82755	12.651	ppbv	97
21) Allyl Chloride	2.094	41	185201	14.476	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	107003	14.160	ppbv	92
23) Vinyl Acetate	2.457	43	413378	16.426	ppbv	99
24) 1,1-Dichloroethane	2.405	63	221175	14.239	ppbv	100
25) Ethyl Acetate	2.829	43	647150	14.084	ppbv	99
26) Hexane	2.819	57	279549	13.869	ppbv	99
27) Carbon Disulfide	2.146	76	260884	15.119	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	156895	16.477	ppbv	97
29) Chloroform	2.842	83	438155	14.067	ppbv	100
30) Cyclohexane	3.849	84	244116	14.280	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	293947	14.192	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	447592	13.796	ppbv	100
34) 2-Butanone	2.551	43	432873	14.297	ppbv	100
35) Carbon Tetrachloride	3.755	117	468957	14.764	ppbv	98
36) Benzene	3.651	78	577153	14.247	ppbv	99
37) 1,2-Dichloroethane	3.211	62	354637	14.533	ppbv	100
38) Trichloroethene	4.541	130	262041	13.416	ppbv	97
39) 1,2-Dichloropropane	4.305	63	211594	14.150	ppbv	99
40) 1,4-Dioxane	4.567	88	98196	13.926	ppbv #	99
41) Tetrahydrofuran	3.046	42	232393	15.278	ppbv	99
42) Bromodichloromethane	4.480	83	486831	15.303	ppbv	99
43) Methyl Methacrylate	4.868	69	231227	16.059	ppbv	98
44) 2,2,4-Trimethylpentane	4.629	57	963867	14.598	ppbv	98
45) t-1,3-Dichloropropene	6.406	75	266194	16.478	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042753.D
 Acq On : 23 Jul 2025 12:26
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:00:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

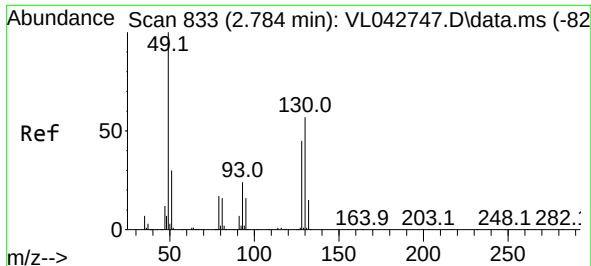
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	329850	16.115	ppbv	99
47) 1,1,2-Trichloroethane	6.567	97	228492	14.335	ppbv	96
48) Dibromochloromethane	7.380	129	397179	15.695	ppbv	99
49) Bromoform	9.477	173	352050	15.955	ppbv	97
50) 4-Methyl-2-Pentanone	5.732	43	594973	15.427	ppbv	100
51) 2-Hexanone	7.428	43	485325	16.467	ppbv #	100
52) Tetrachloroethene	8.221	164	217184	12.899	ppbv	95
53) Toluene	6.923	91	670142	15.405	ppbv	99
54) 1,2-Dibromoethane	7.645	107	338867	15.019	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.920	131	293384	14.648	ppbv	99
57) Chlorobenzene	8.917	112	522894	14.025	ppbv	98
58) Ethyl Benzene	9.351	91	940159	15.454	ppbv	99
59) m/p-Xylene	9.545	91	1497932m	30.800	ppbv	
60) o-Xylene	9.959	91	730161	15.030	ppbv	100
61) Styrene	9.866	104	343429	16.805	ppbv	100
62) Isopropylbenzene	10.536	105	1078393	15.049	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	419734	13.261	ppbv	98
64) n-propylbenzene	10.985	120	286724	15.348	ppbv	97
65) tert-Butylbenzene	11.529	119	954459	14.995	ppbv	98
66) Benzyl Chloride	11.610	91	94218	18.031	ppbv	98
67) sec-Butylbenzene	11.762	105	1327393	14.662	ppbv	99
69) p-Isopropyltoluene	11.921	119	1149418	15.571	ppbv	99
70) n-Butylbenzene	12.277	91	1152207	16.159	ppbv	100
71) 2-Chlorotoluene	10.898	91	838335	15.257	ppbv	99
72) 4-Ethyltoluene	11.121	105	918453	15.830	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	763212	15.977	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	827222	15.873	ppbv	97
75) 1,3-Dichlorobenzene	11.604	146	539284	14.761	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	542998	15.188	ppbv	100
77) 1,2-Dichlorobenzene	11.943	146	516714	14.390	ppbv	98
78) Hexachloro-1,3-Butadiene	13.876	225	432138	13.296	ppbv	99
79) Naphthalene	13.507	128	876734	15.265	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	456529	15.438	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	490575	15.200	ppbv	99

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



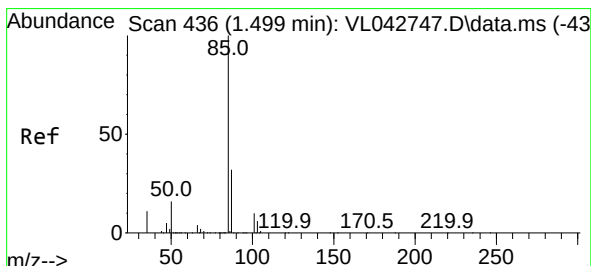
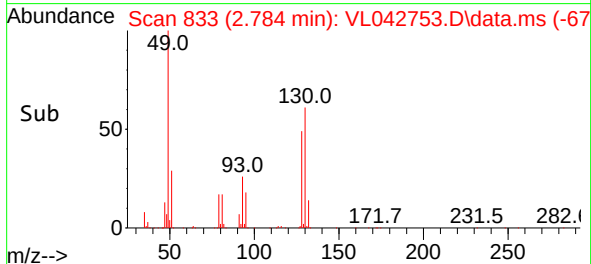
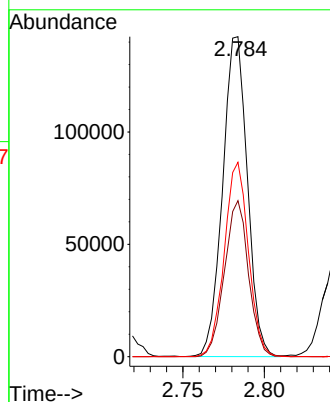
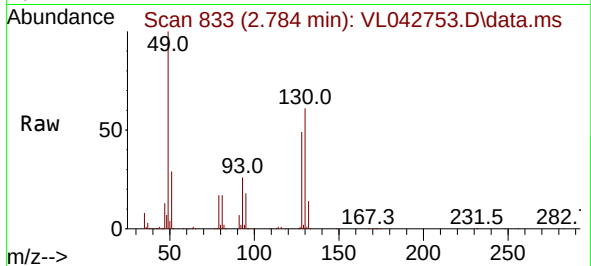
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 49 Resp: 15033
Ion Ratio Lower Upper
49 100
128 47.4 23.6 71.0
130 59.2 30.3 90.8

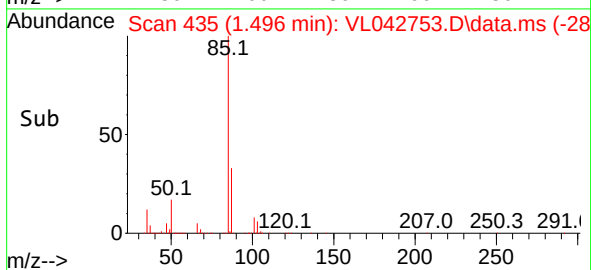
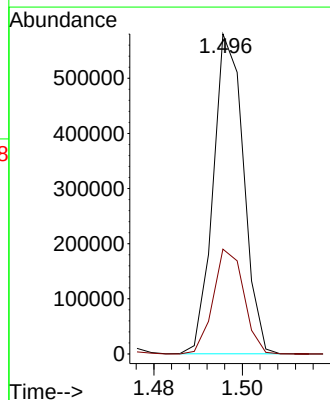
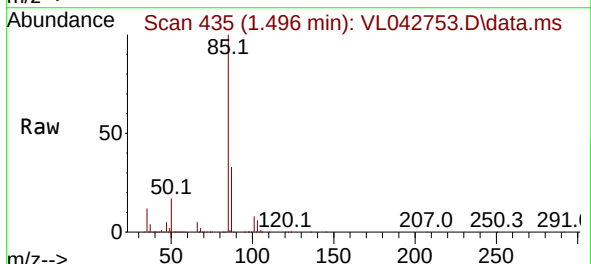
Manual Integrations
APPROVED

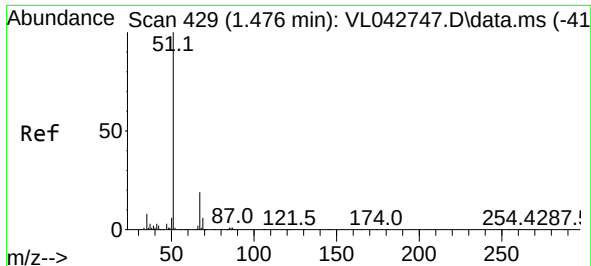
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#2
Dichlorodifluoromethane
Concen: 13.938 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 85 Resp: 277045
Ion Ratio Lower Upper
85 100
87 32.7 25.4 38.2





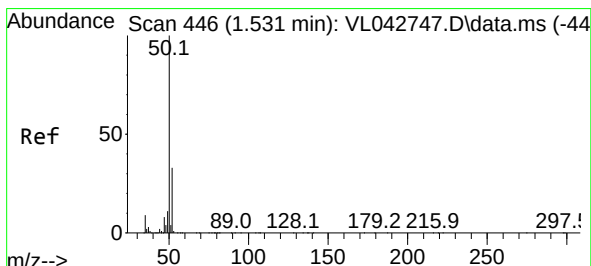
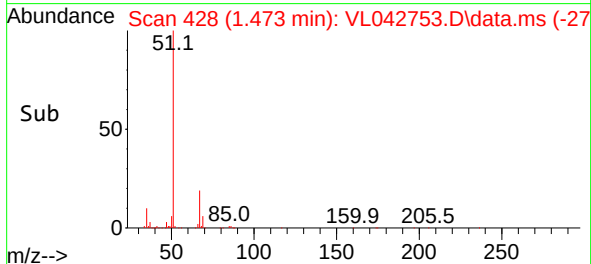
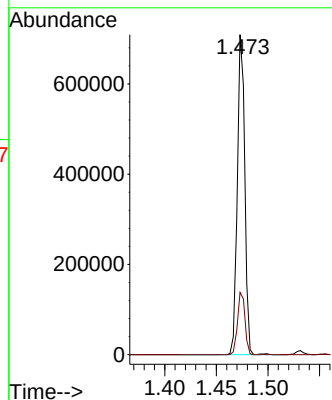
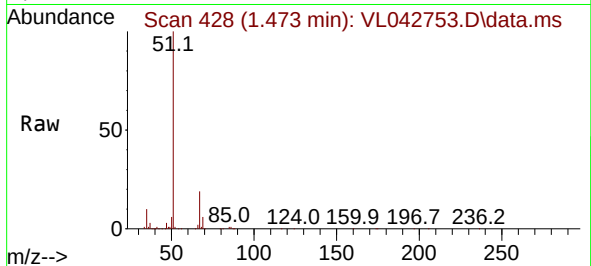
#3
Chlorodifluoromethane
Concen: 13.651 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 51 Resp: 35345
Ion Ratio Lower Upper
51 100
67 19.6 15.0 22.6

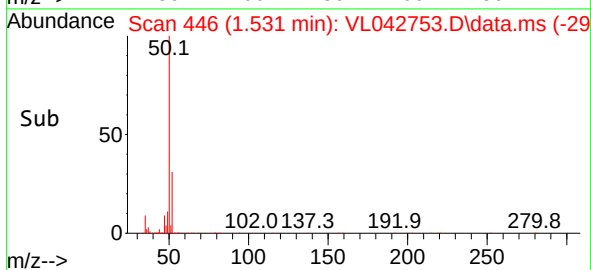
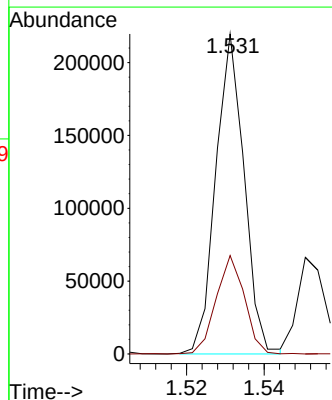
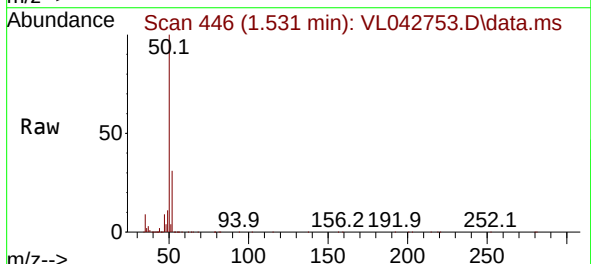
Manual Integrations
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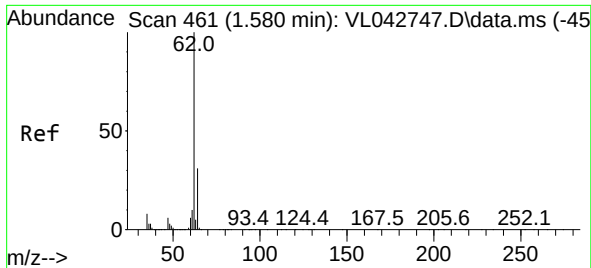
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#4
Chloromethane
Concen: 13.889 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 50 Resp: 111684
Ion Ratio Lower Upper
50 100
52 30.8 26.6 40.0





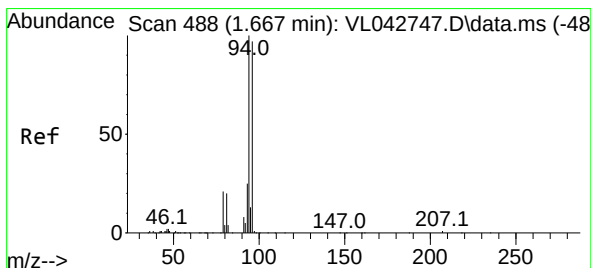
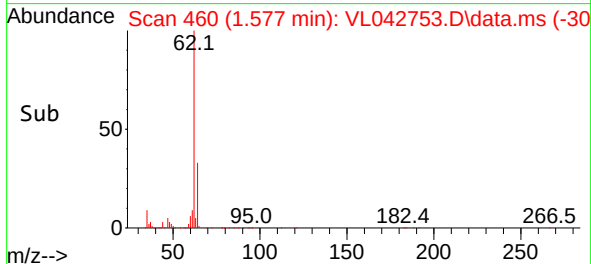
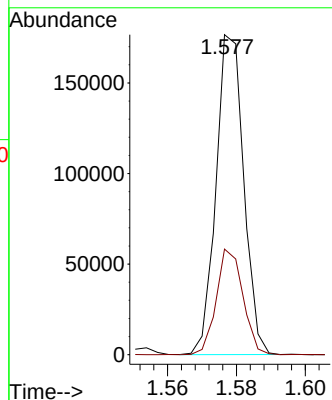
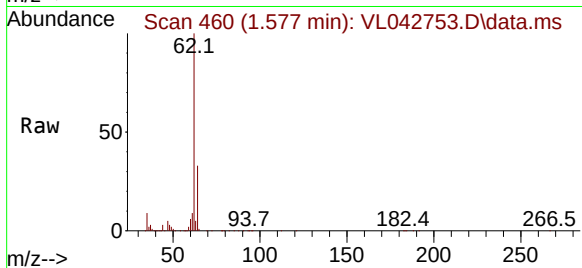
#5
 Vinyl Chloride
 Concen: 12.410 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 62 Resp: 98590
 Ion Ratio Lower Upper
 62 100
 64 33.0 24.5 36.7

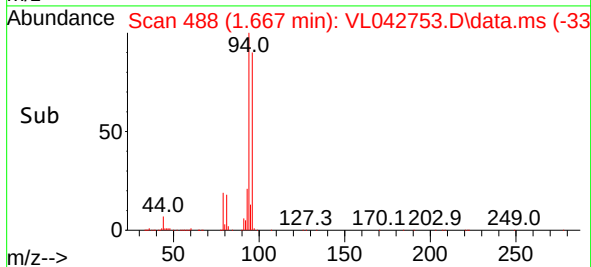
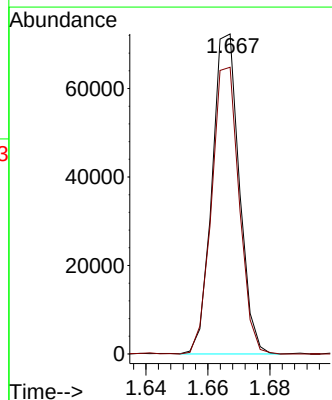
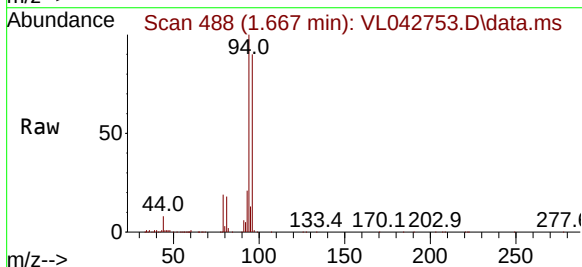
Manual Integrations
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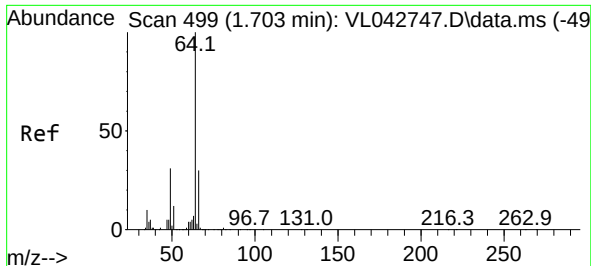
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#6
 Bromomethane
 Concen: 14.372 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion: 94 Resp: 44144
 Ion Ratio Lower Upper
 94 100
 96 89.6 77.6 116.4





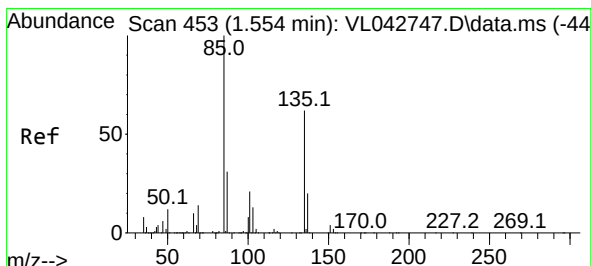
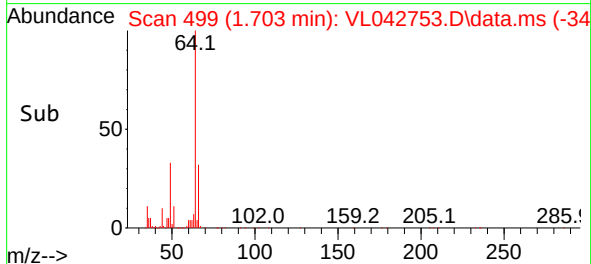
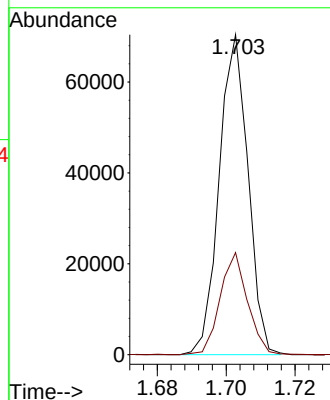
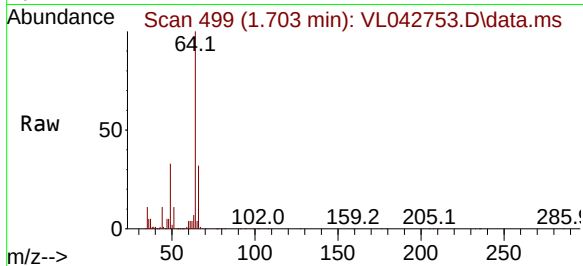
#7
Chloroethane
Concen: 13.327 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 64 Resp: 40909
Ion Ratio Lower Upper
64 100
66 31.9 24.1 36.1

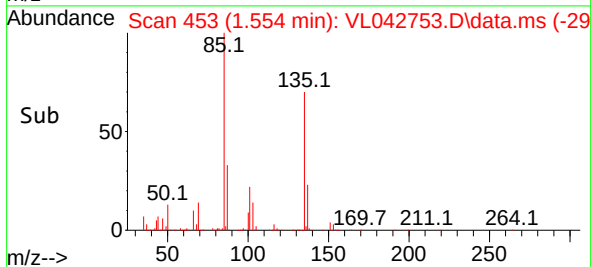
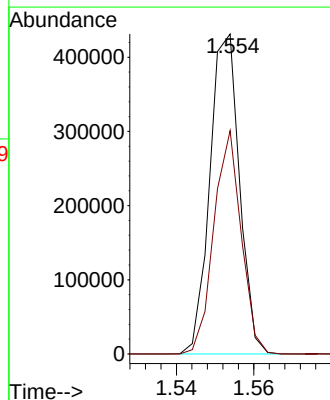
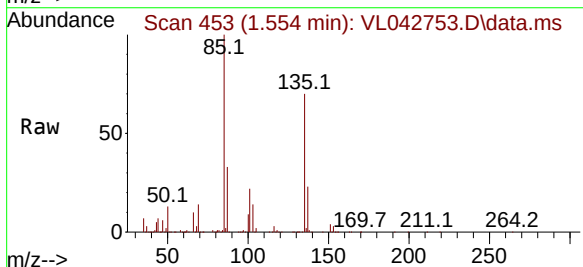
Manual Integrations
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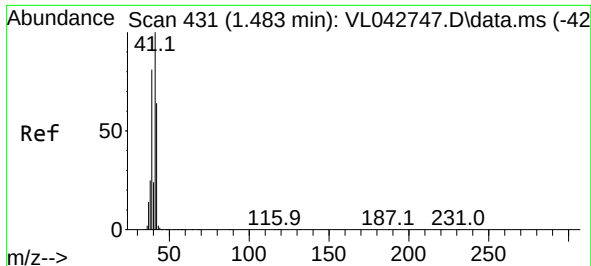
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#8
Dichlorotetrafluoroethane
Concen: 14.028 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

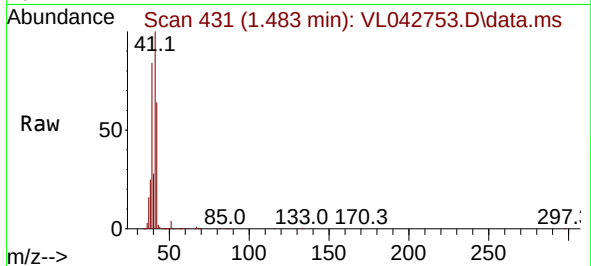
Tgt Ion: 85 Resp: 229298
Ion Ratio Lower Upper
85 100
135 64.4 50.6 76.0





#9
 Propene
 Concen: 13.716 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

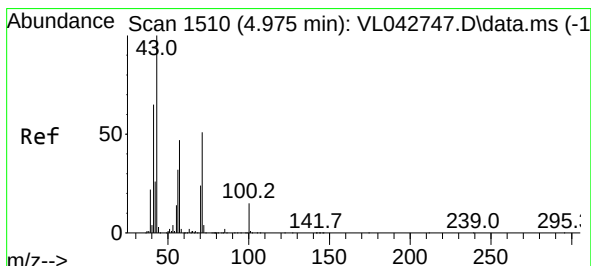
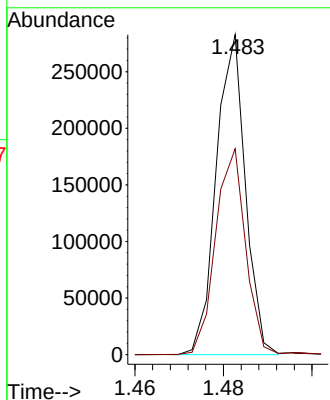
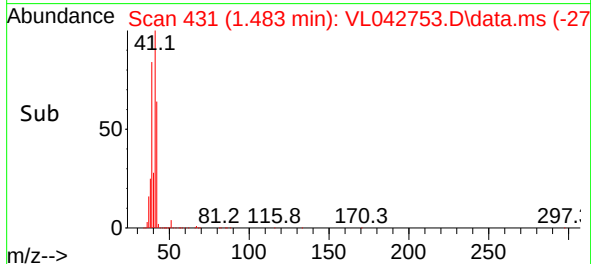
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



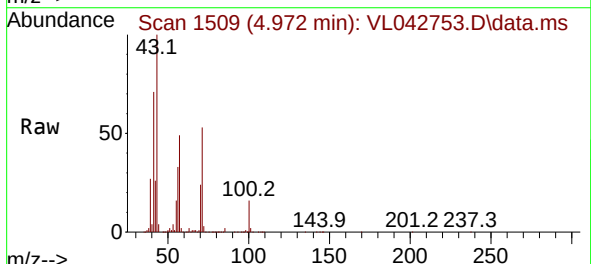
Tgt Ion: 41 Resp: 129069
 Ion Ratio Lower Upper
 41 100
 42 67.0 53.2 79.8

Manual Integrations
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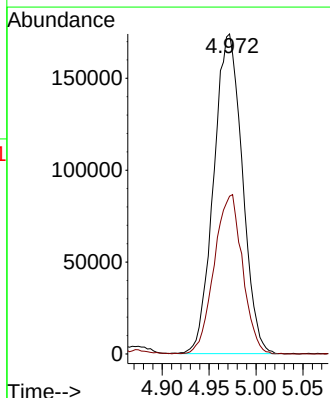
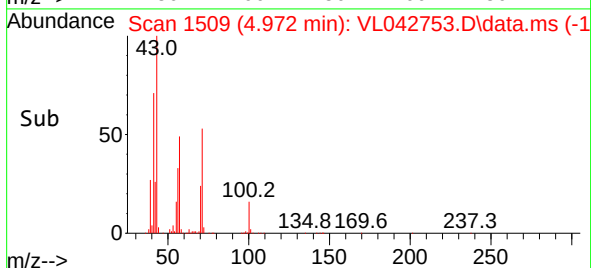
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

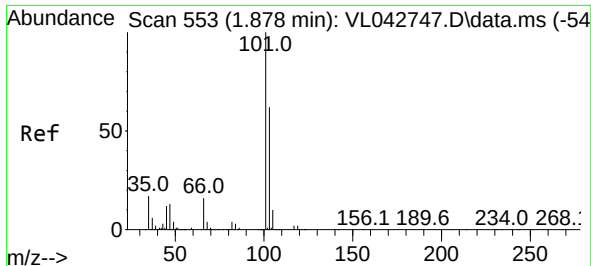


#10
 Heptane
 Concen: 14.563 ppbv
 RT: 4.972 min Scan# 1509
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26



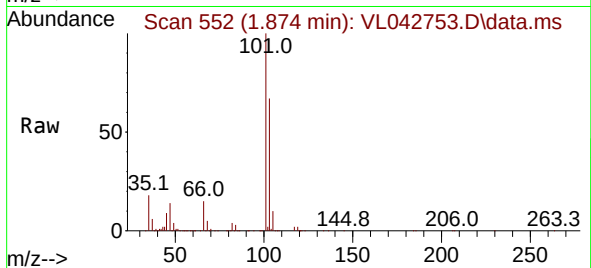
Tgt Ion: 43 Resp: 368612
 Ion Ratio Lower Upper
 43 100
 57 49.4 39.9 59.9





#11
Trichlorofluoromethane
Concen: 14.143 ppbv
RT: 1.874 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

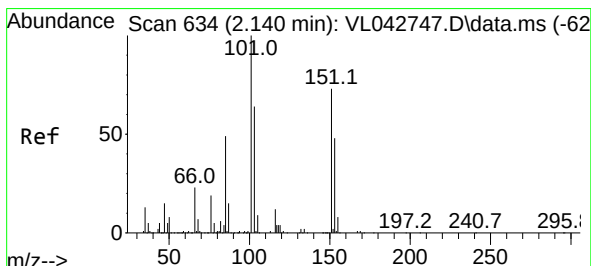
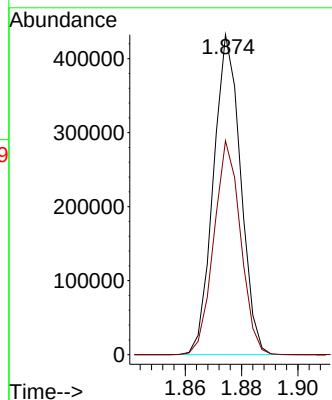
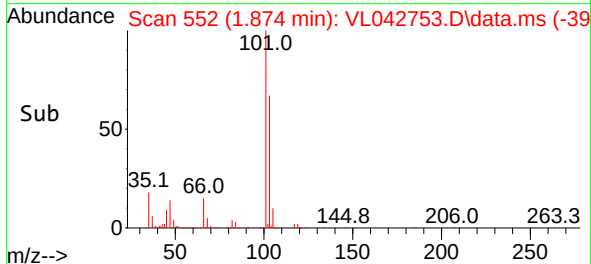
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



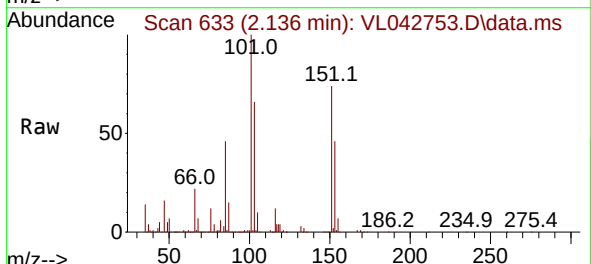
Tgt Ion:101 Resp: 289764
Ion Ratio Lower Upper
101 100
103 66.8 49.6 74.4

Manual Integrations
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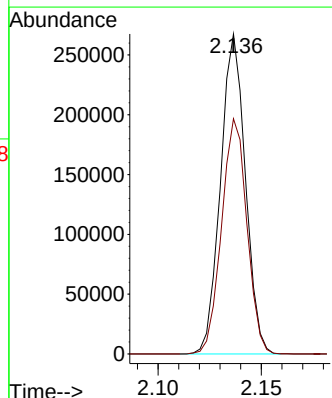
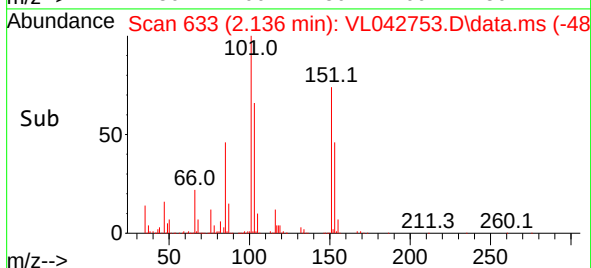
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

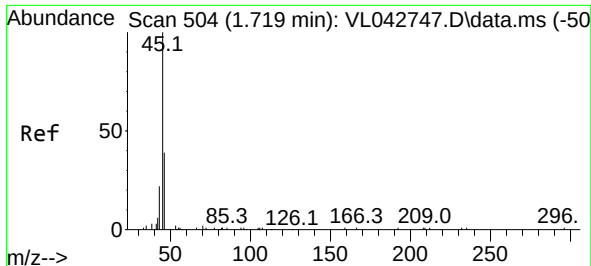


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.358 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



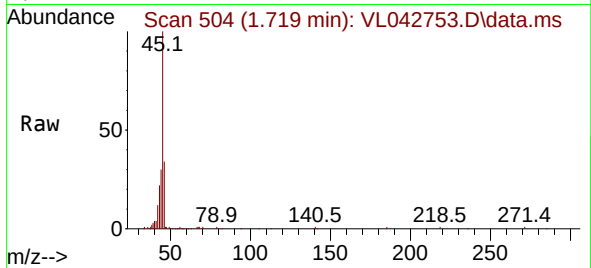
Tgt Ion:101 Resp: 223552
Ion Ratio Lower Upper
101 100
151 74.9 60.5 90.7





#13
Ethanol
Concen: 15.142 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

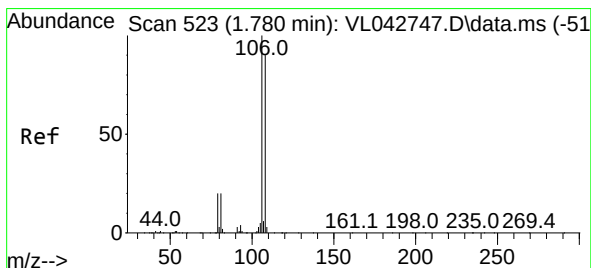
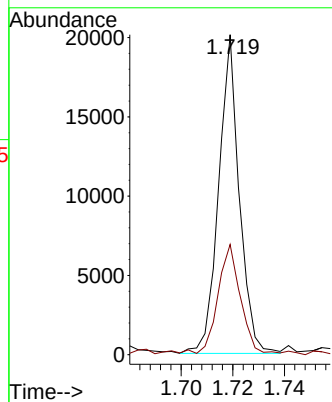
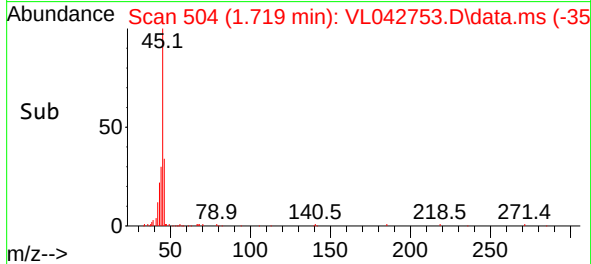
Instrument :
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ClientSampleId :
VSTDIC015



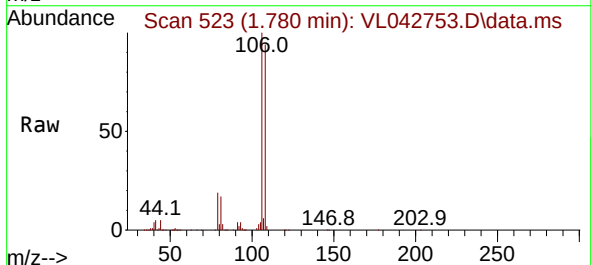
Tgt Ion: 45 Resp: 11145
Ion Ratio Lower Upper
45 100
46 35.4 17.8 71.4

Manual Integrations
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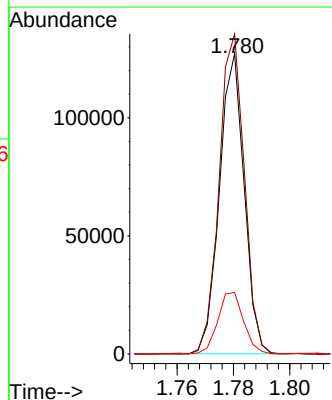
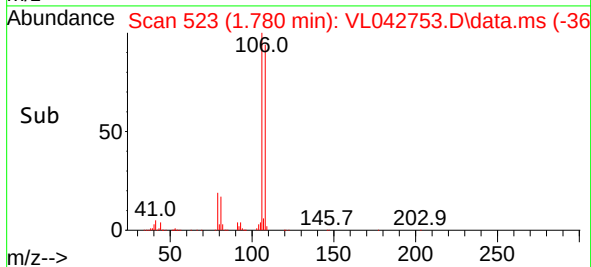
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

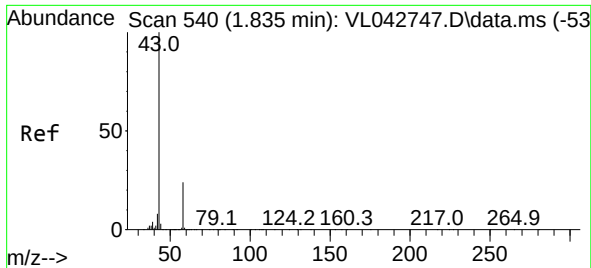


#14
Bromoethene
Concen: 14.047 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



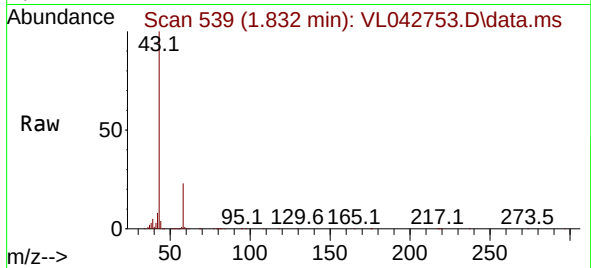
Tgt Ion:108 Resp: 77435
Ion Ratio Lower Upper
108 100
106 108.5 84.7 127.1
79 22.3 17.4 26.2





#15
Acetone
Concen: 11.449 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

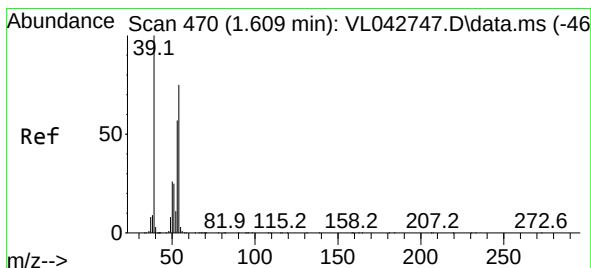
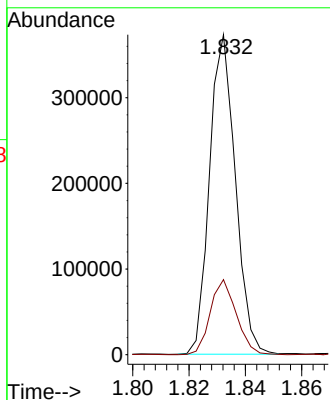
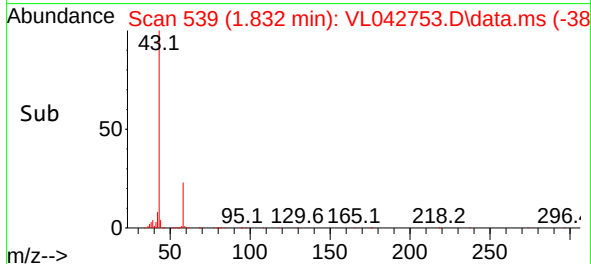
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 43 Resp: 23766
Ion Ratio Lower Upper
43 100
58 24.0 19.8 29.8

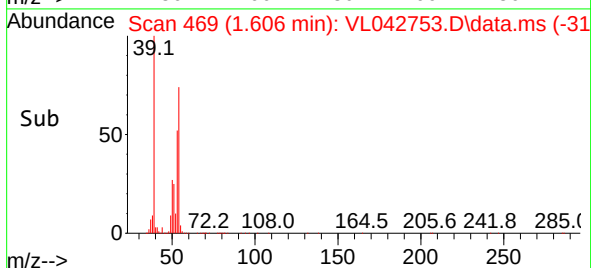
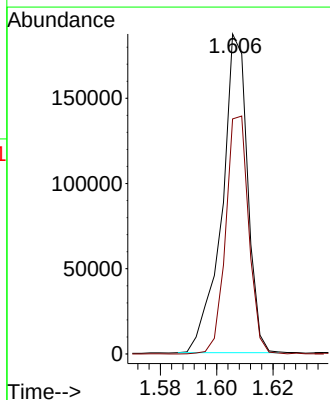
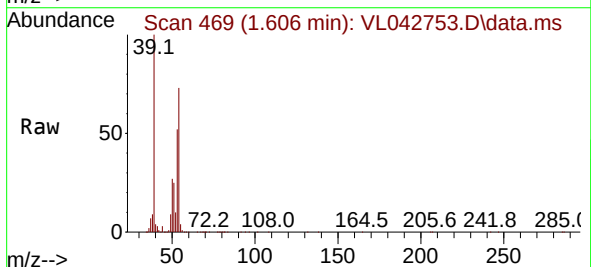
Manual Integrations
APPROVED

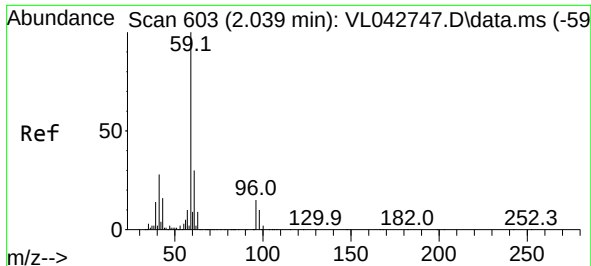
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#16
1,3-Butadiene
Concen: 13.355 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 39 Resp: 118252
Ion Ratio Lower Upper
39 100
54 67.5 54.5 81.7





#17

tert-Butyl alcohol

Concen: 13.919 ppbv

RT: 2.036 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 59 Resp: 26058

Ion Ratio Lower Upper

59 100

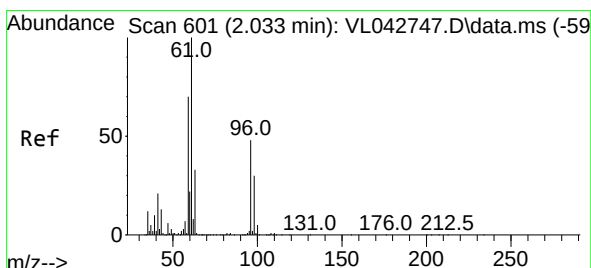
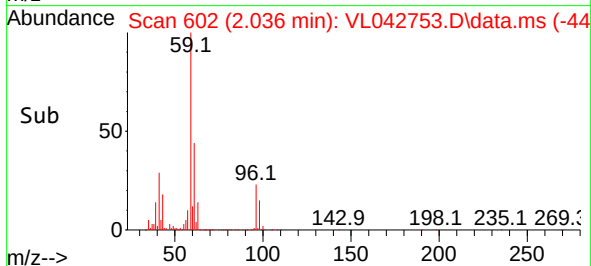
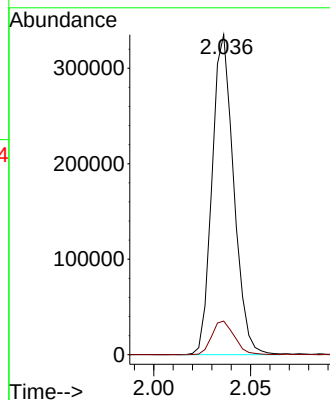
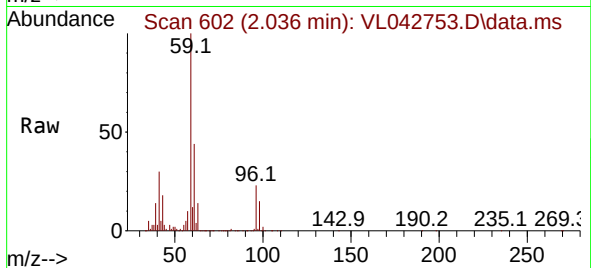
57 11.1 8.3 12.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#18

1,1-Dichloroethene

Concen: 13.382 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

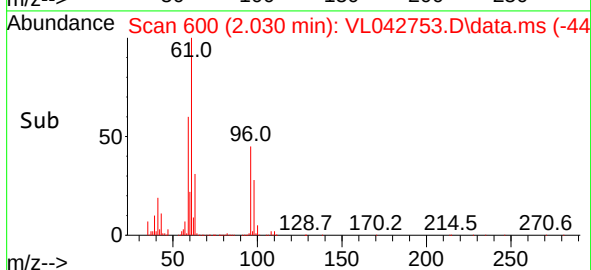
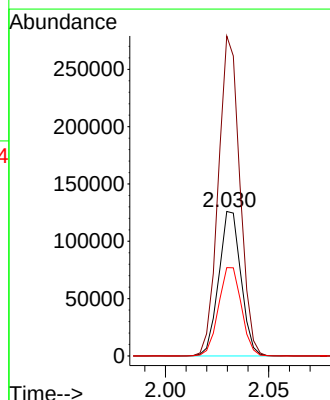
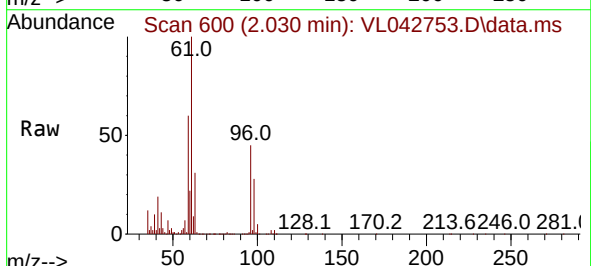
Tgt Ion: 96 Resp: 94140

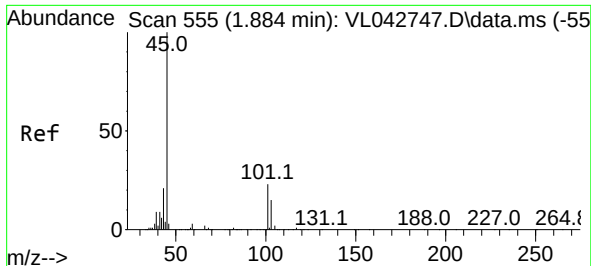
Ion Ratio Lower Upper

96 100

61 221.6 165.8 248.6

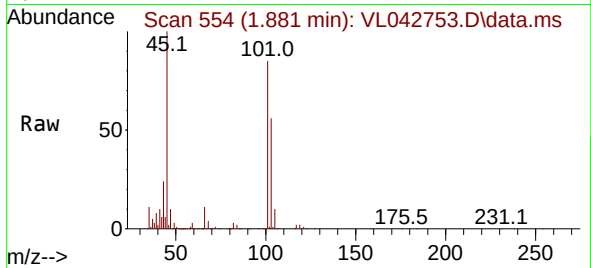
98 61.2 49.9 74.9





#19
Isopropyl Alcohol
Concen: 13.549 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

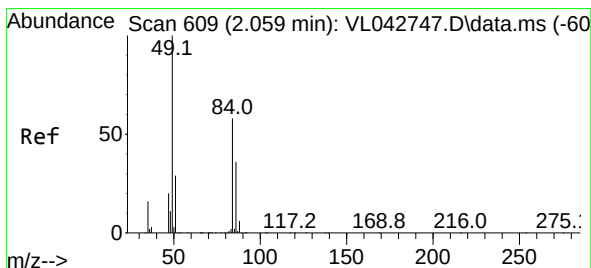
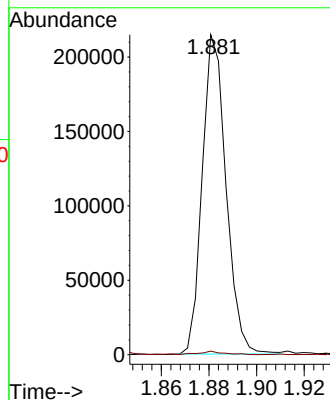
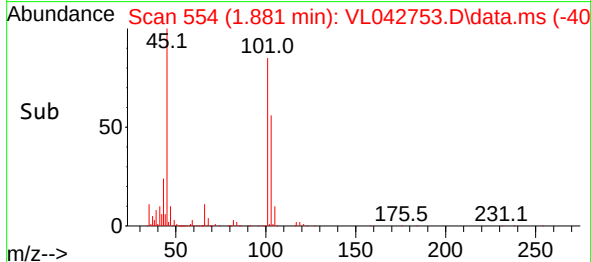
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



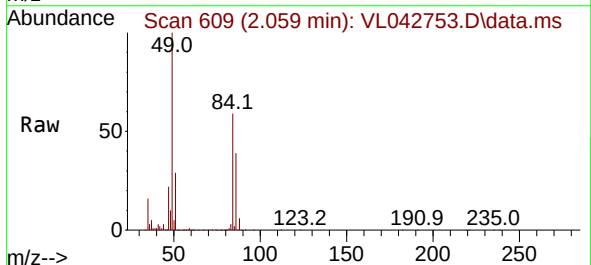
Tgt Ion: 45 Resp: 14946
Ion Ratio Lower Upper
45 100
58 38.1 30.0 45.0

Manual Integrations
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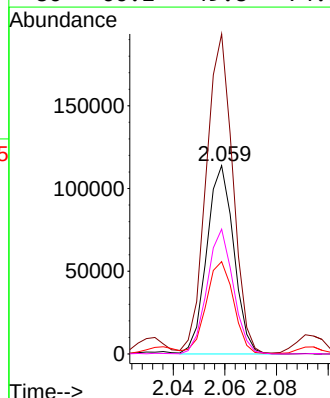
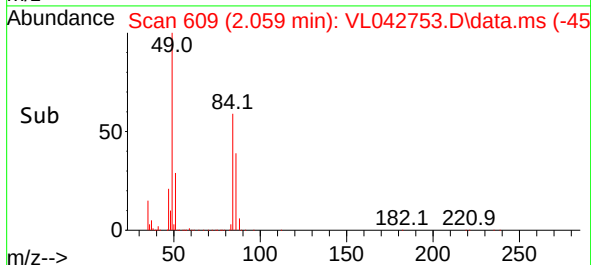
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

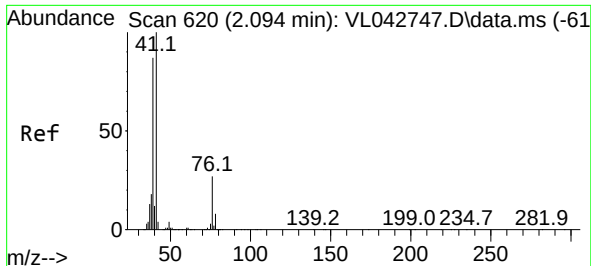


#20
Methylene Chloride
Concen: 12.651 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



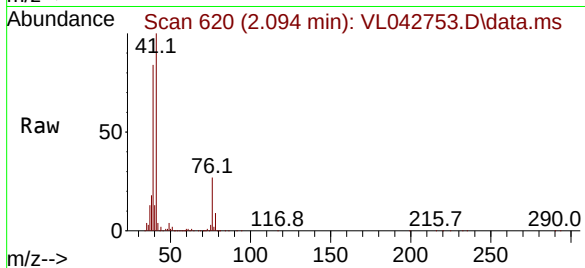
Tgt Ion: 84 Resp: 82755
Ion Ratio Lower Upper
84 100
49 169.2 138.6 208.0
51 48.6 40.6 61.0
86 66.2 49.8 74.8





#21
 Allyl Chloride
 Concen: 14.476 ppbv
 RT: 2.094 min Scan# 611
 Delta R.T. -0.000 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

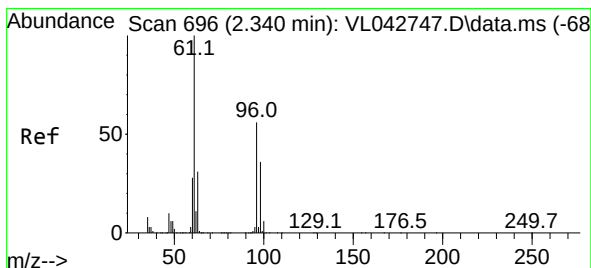
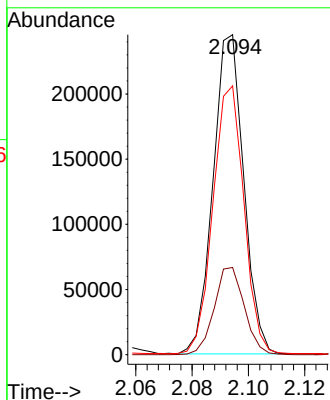
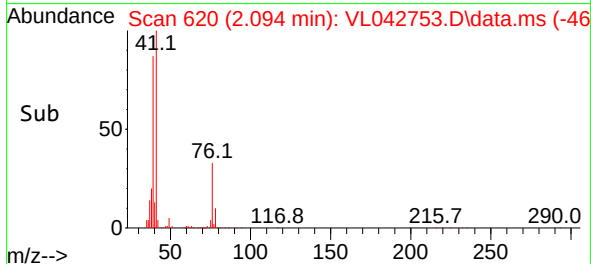
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



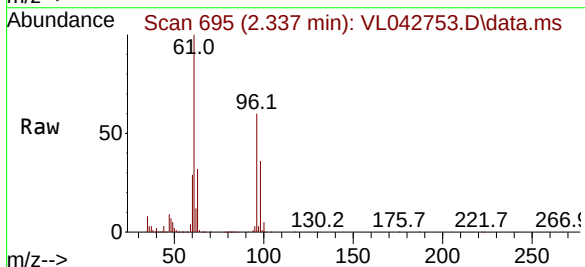
Tgt Ion: 41 Resp: 18520
 Ion Ratio Lower Upper
 41 100
 76 26.9 21.1 31.7
 39 85.2 68.3 102.5

Manual Integrations
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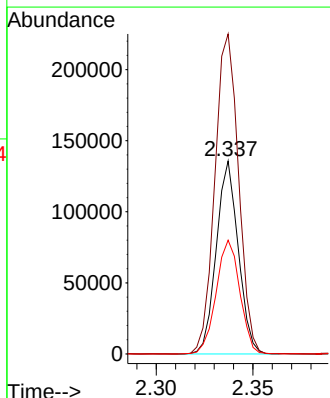
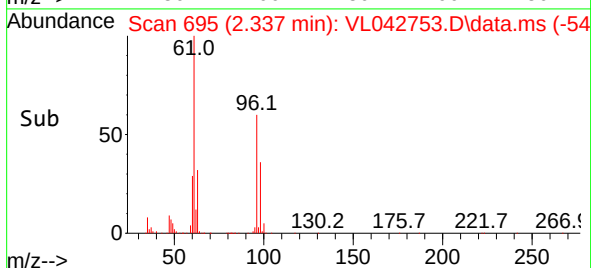
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

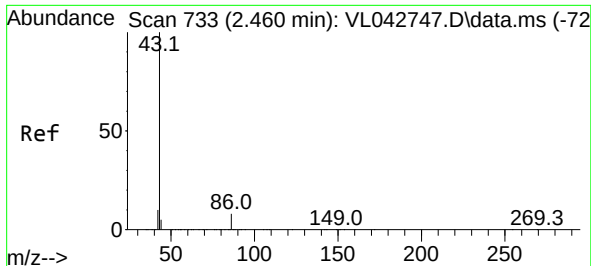


#22
 trans-1,2-Dichloroethene
 Concen: 14.160 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26



Tgt Ion: 96 Resp: 107003
 Ion Ratio Lower Upper
 96 100
 61 165.9 142.3 213.5
 98 59.0 50.6 76.0





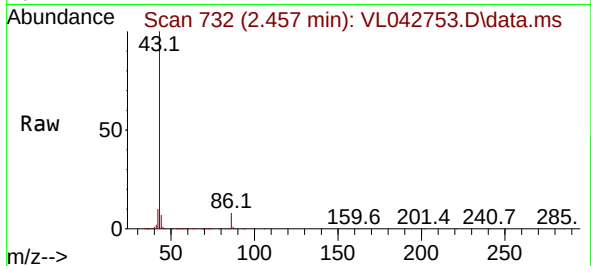
#23
 Vinyl Acetate
 Concen: 16.426 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

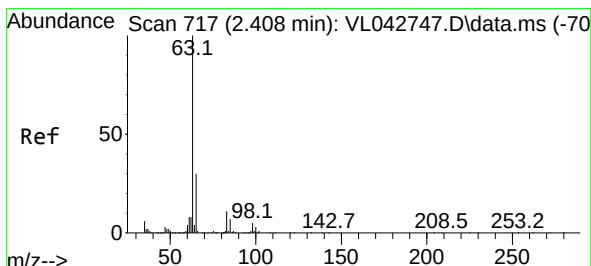
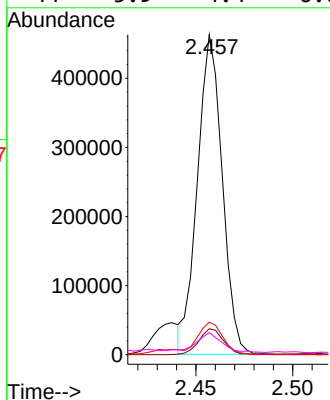
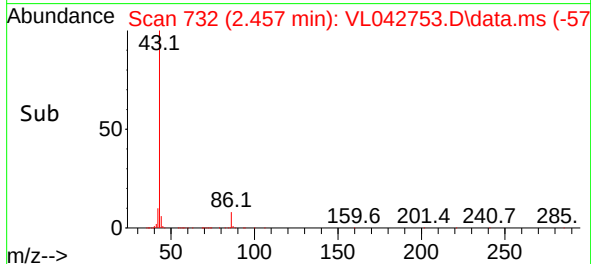


Tgt Ion: 43 Resp: 413378
 Ion Ratio Lower Upper
 43 100
 86 8.1 6.1 9.1
 42 10.1 7.8 11.8
 44 5.9 4.4 6.6

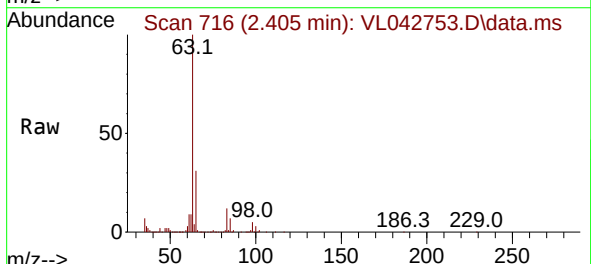
Manual Integrations

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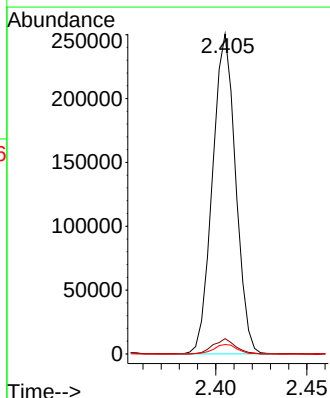
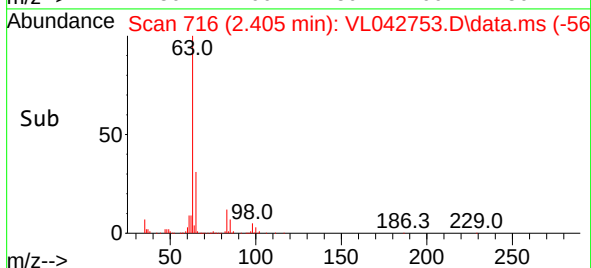
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

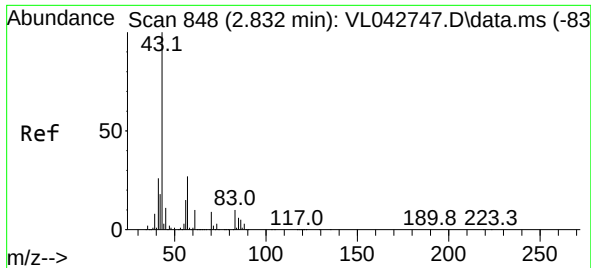


#24
 1,1-Dichloroethane
 Concen: 14.239 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26



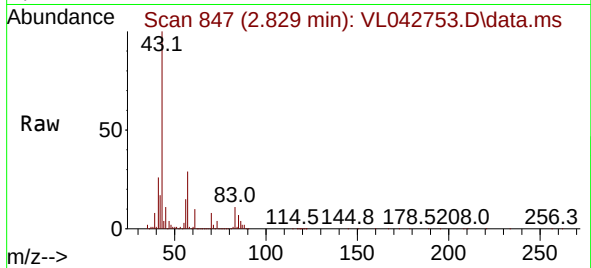
Tgt Ion: 63 Resp: 221175
 Ion Ratio Lower Upper
 63 100
 98 4.8 2.5 7.4
 100 2.9 1.6 4.8





#25
Ethyl Acetate
Concen: 14.084 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

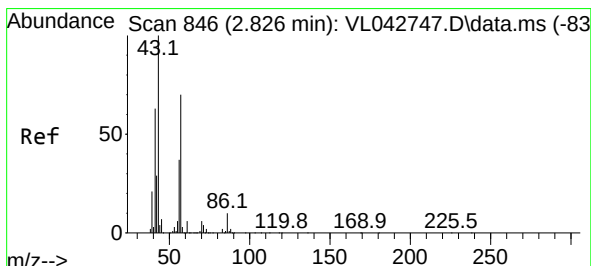
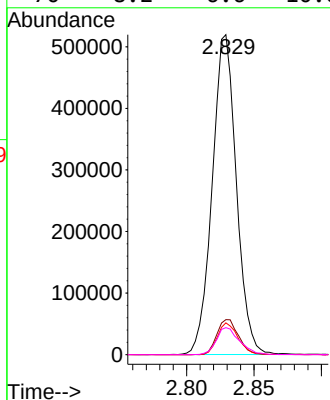
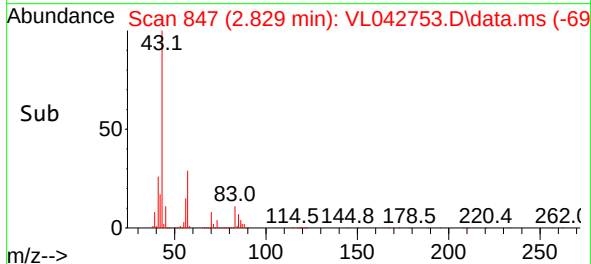
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 43 Resp: 647150
Ion Ratio Lower Upper
43 100
45 10.0 7.8 11.6
61 8.6 6.7 10.1
70 8.2 6.6 10.0

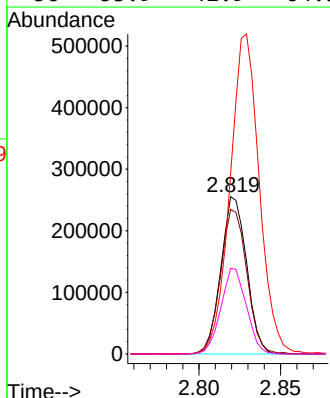
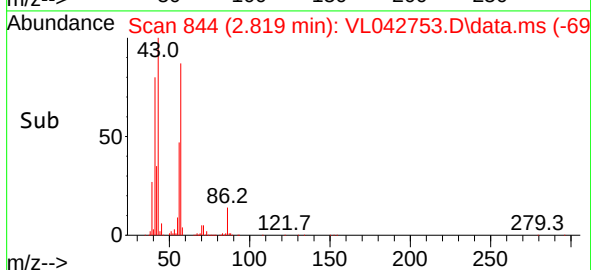
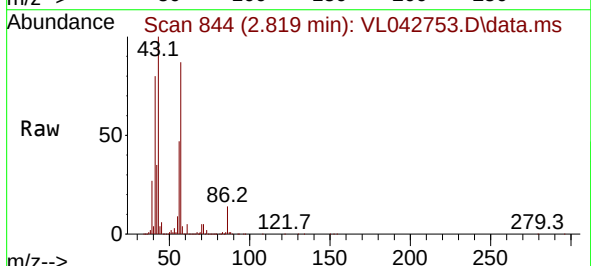
Manual Integrations
APPROVED

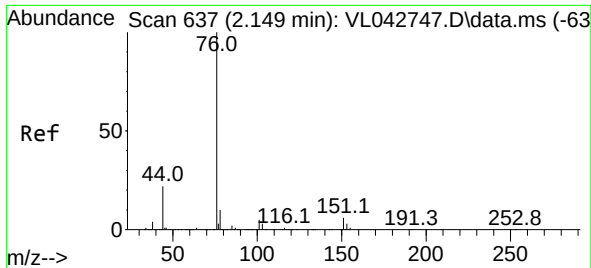
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#26
Hexane
Concen: 13.869 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 57 Resp: 279549
Ion Ratio Lower Upper
57 100
41 94.6 75.4 113.2
43 232.7 185.0 277.6
56 53.9 42.9 64.3





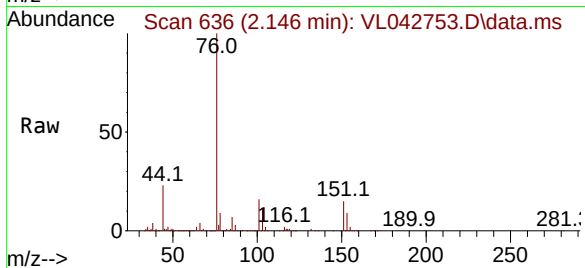
#27
Carbon Disulfide
Concen: 15.119 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

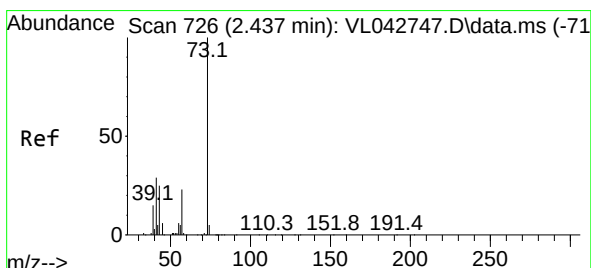
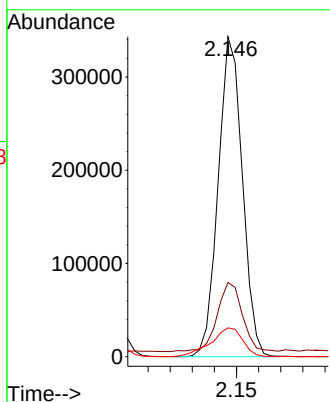
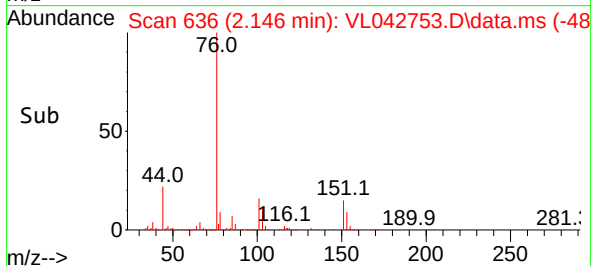


Tgt Ion: 76 Resp: 260884
Ion Ratio Lower Upper
76 100
44 23.1 19.3 28.9
78 11.9 9.9 14.9

Manual Integrations

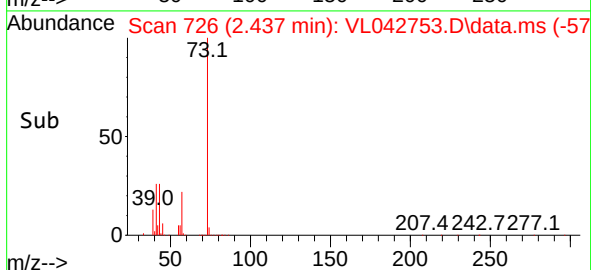
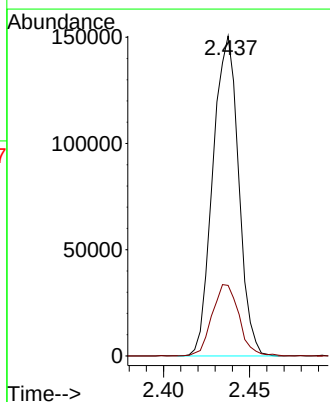
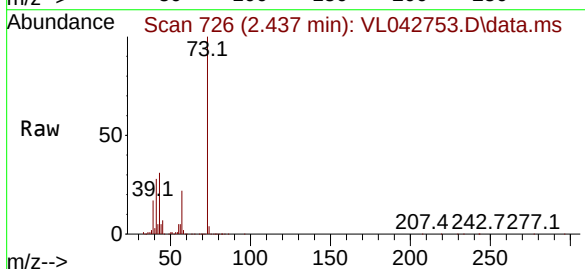
APPROVED

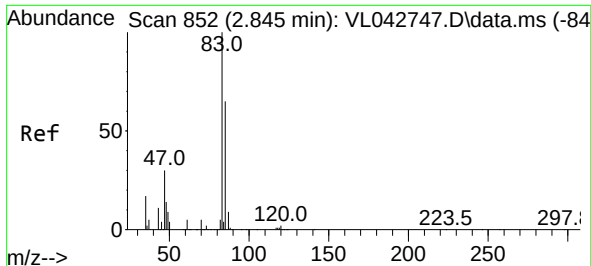
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#28
Methyl tert-Butyl Ether
Concen: 16.477 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 73 Resp: 156895
Ion Ratio Lower Upper
73 100
57 23.5 19.8 29.8





#29

Chloroform

Concen: 14.067 ppbv

RT: 2.842 min Scan# 851

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 83 Resp: 43815

Ion Ratio Lower Upper

83 100

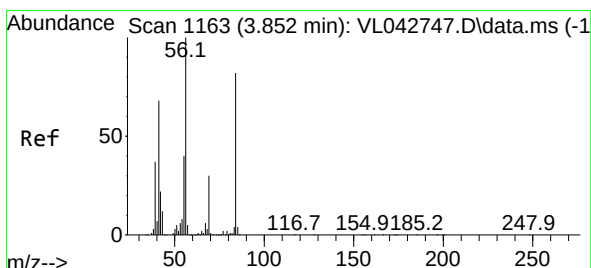
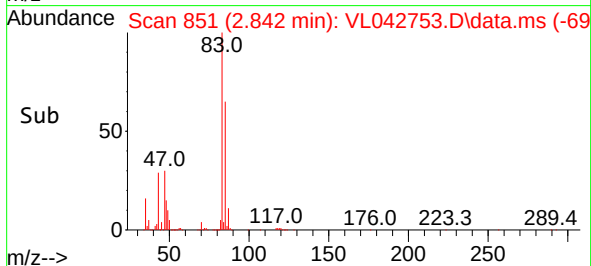
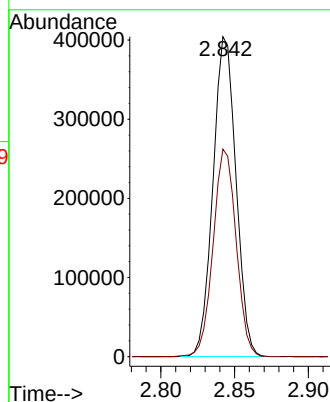
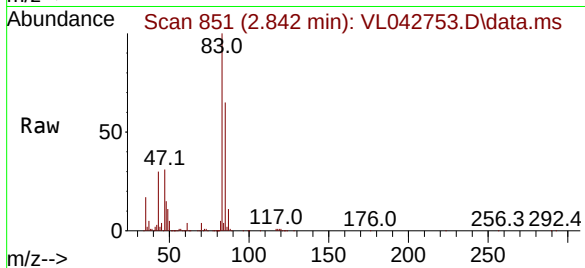
85 64.9 52.2 78.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#30

Cyclohexane

Concen: 14.280 ppbv

RT: 3.849 min Scan# 1162

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

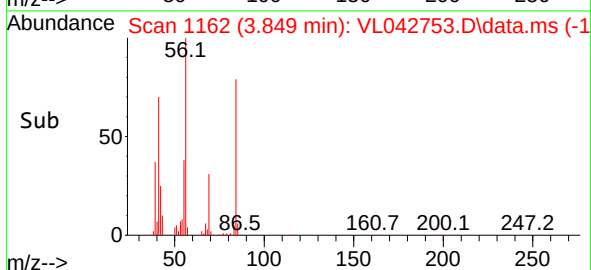
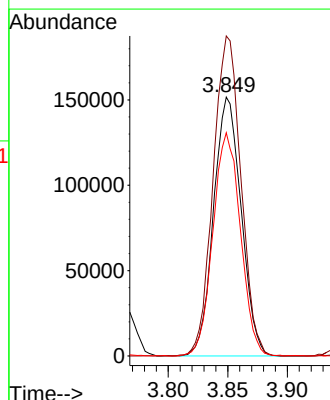
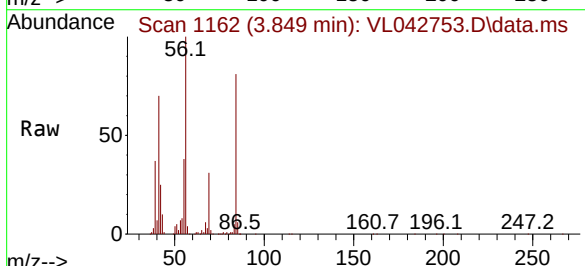
Tgt Ion: 84 Resp: 244116

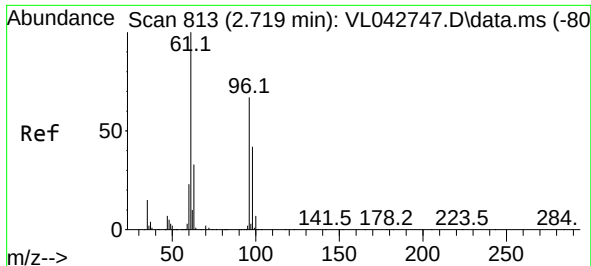
Ion Ratio Lower Upper

84 100

56 124.4 97.5 146.3

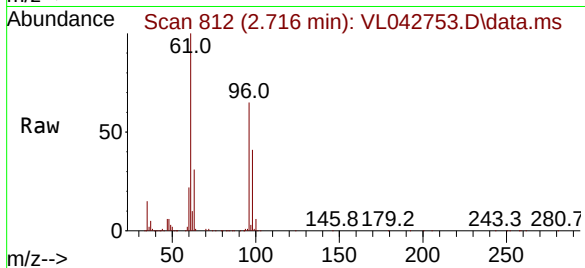
41 85.9 67.2 100.8





#31
 cis-1,2-Dichloroethene
 Concen: 14.192 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

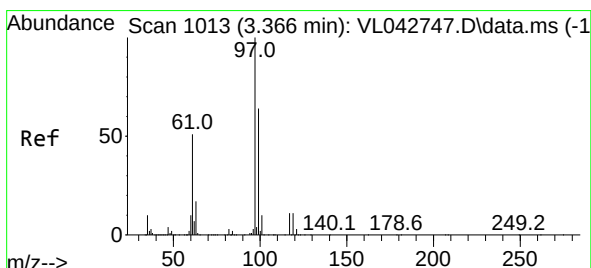
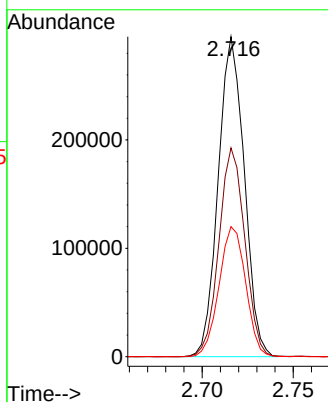
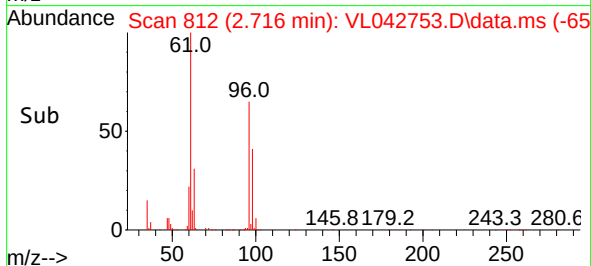
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



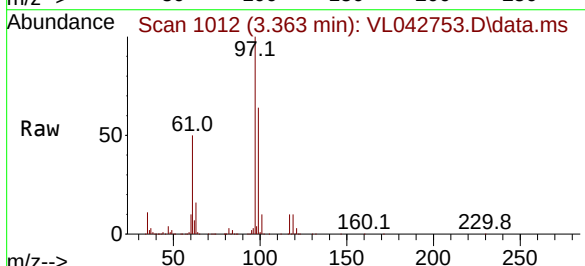
Tgt Ion: 61 Resp: 29394
 Ion Ratio Lower Upper
 61 100
 96 65.3 53.5 80.3
 98 40.7 33.6 50.4

Manual Integrations
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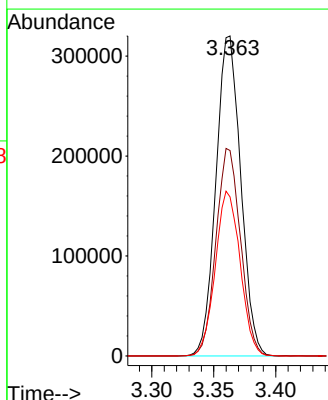
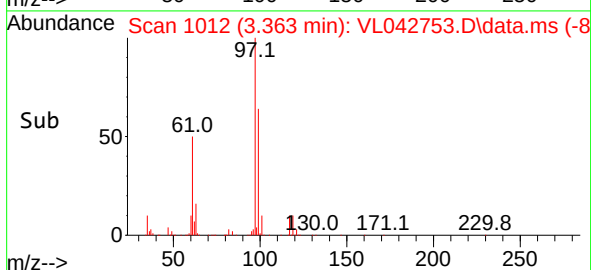
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

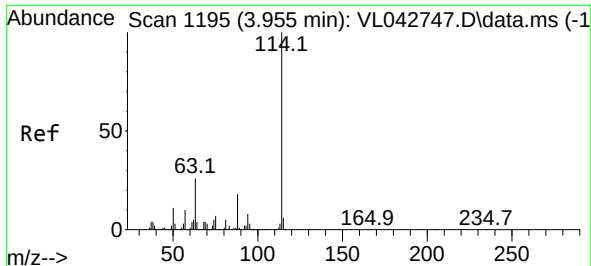


#32
 1,1,1-Trichloroethane
 Concen: 13.796 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26



Tgt Ion: 97 Resp: 447592
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.0 76.6
 61 51.5 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion:114 Resp: 427438

Ion Ratio Lower Upper

114 100

63 25.7 20.5 30.7

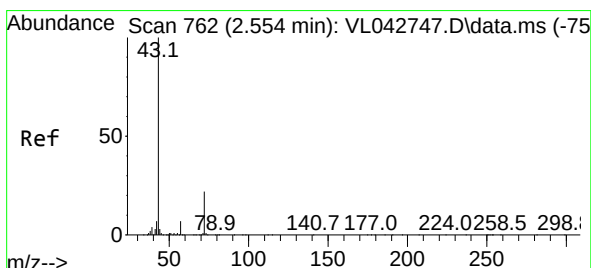
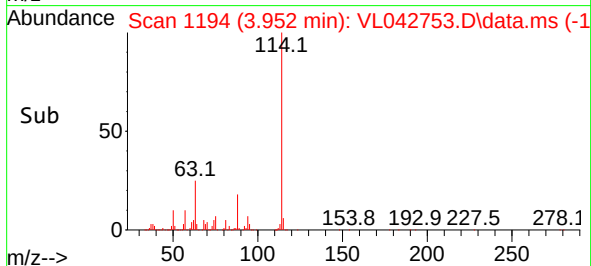
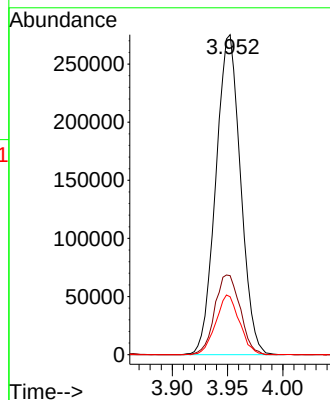
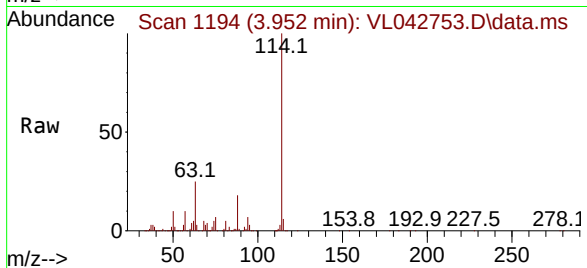
88 17.9 14.0 21.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#34

2-Butanone

Concen: 14.297 ppbv

RT: 2.551 min Scan# 761

Delta R.T. -0.003 min

Lab File: VL042753.D

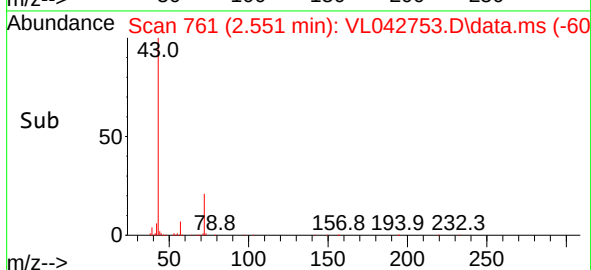
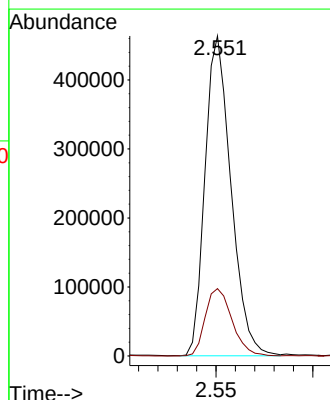
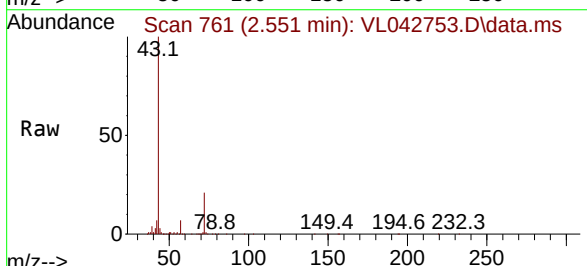
Acq: 23 Jul 2025 12:26

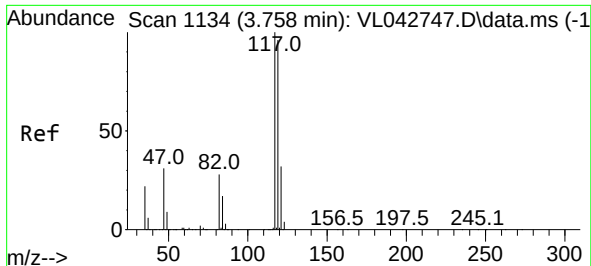
Tgt Ion: 43 Resp: 432873

Ion Ratio Lower Upper

43 100

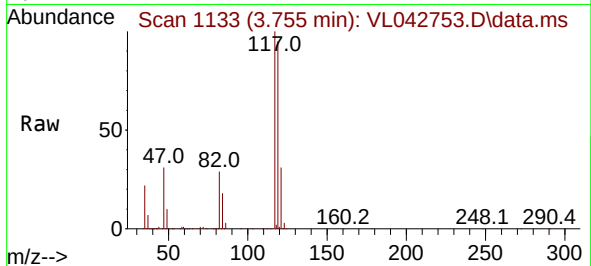
72 21.8 17.4 26.0





#35
Carbon Tetrachloride
Concen: 14.764 ppbv
RT: 3.755 min Scan# 111
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

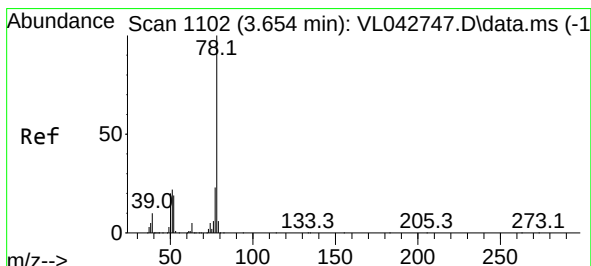
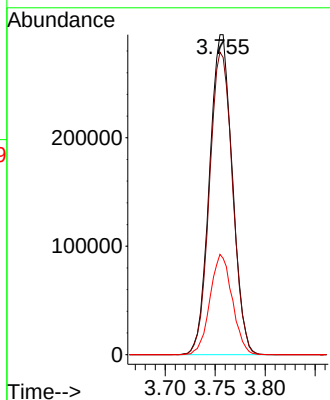
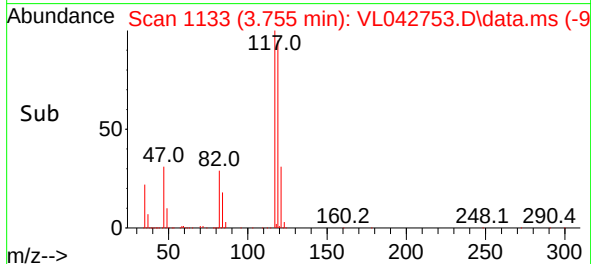
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:117 Resp: 46895
Ion Ratio Lower Upper
117 100
119 94.6 77.1 115.7
121 31.4 25.5 38.3

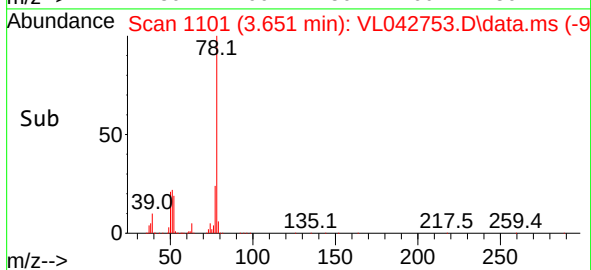
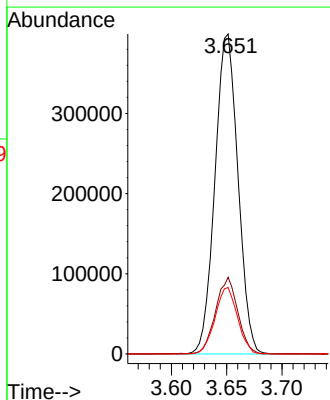
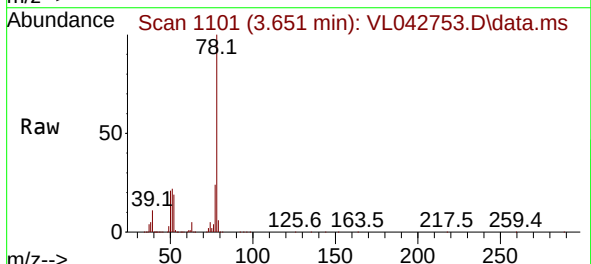
Manual Integrations
APPROVED

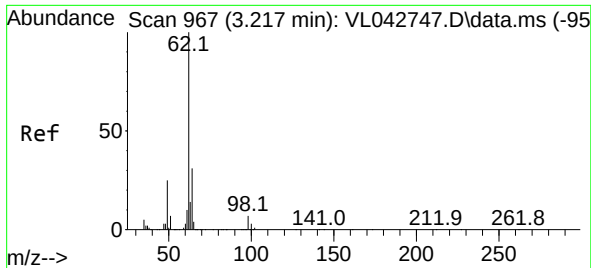
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#36
Benzene
Concen: 14.247 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 78 Resp: 577153
Ion Ratio Lower Upper
78 100
77 23.9 18.5 27.7
50 20.7 16.2 24.2





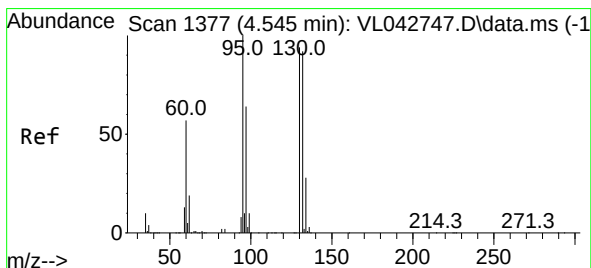
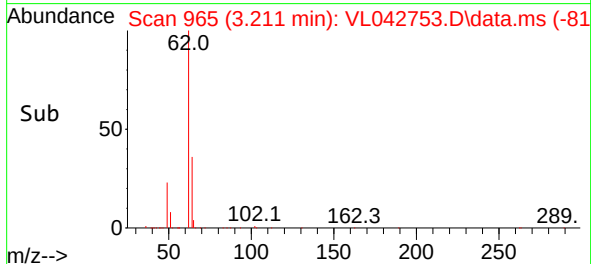
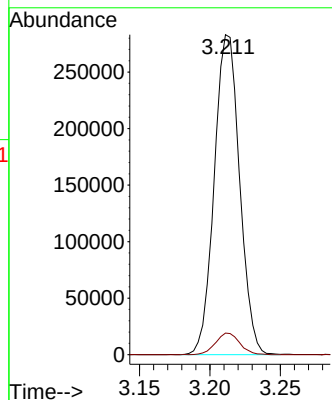
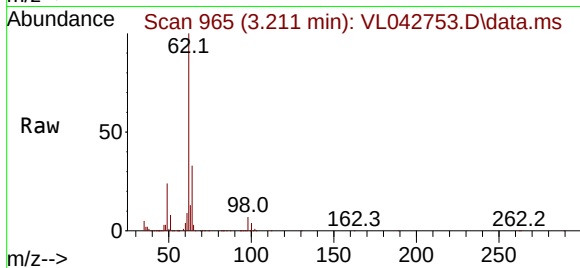
#37
1,2-Dichloroethane
Concen: 14.533 ppbv
RT: 3.211 min Scan# 965
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 62 Resp: 35463
Ion Ratio Lower Upper
62 100
98 6.5 5.2 7.8

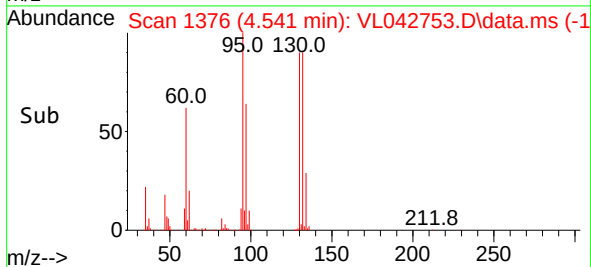
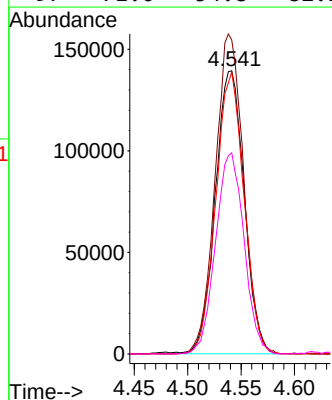
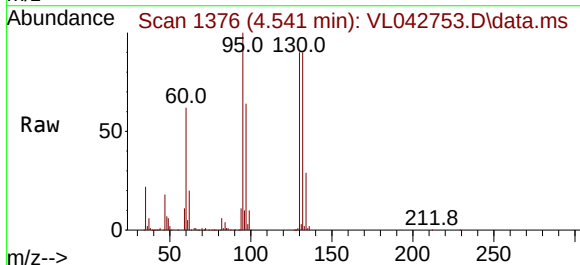
Manual Integrations
APPROVED

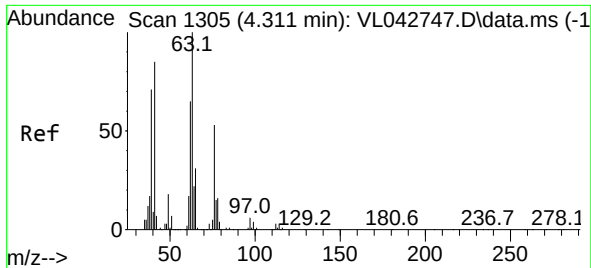
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#38
Trichloroethene
Concen: 13.416 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:130 Resp: 262041
Ion Ratio Lower Upper
130 100
95 110.8 85.4 128.2
132 99.5 78.2 117.2
97 71.0 54.8 82.2





#39

1,2-Dichloropropane

Concen: 14.150 ppbv

RT: 4.305 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 63 Resp: 211594

Ion Ratio Lower Upper

63 100

41 85.0 68.2 102.4

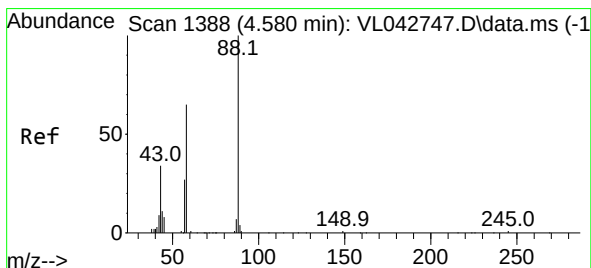
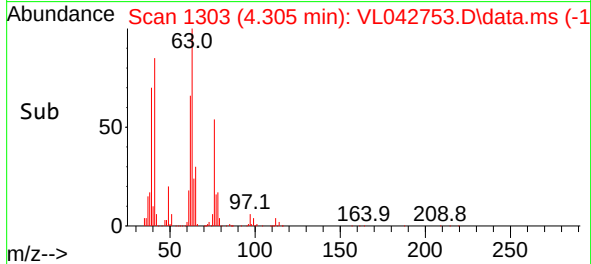
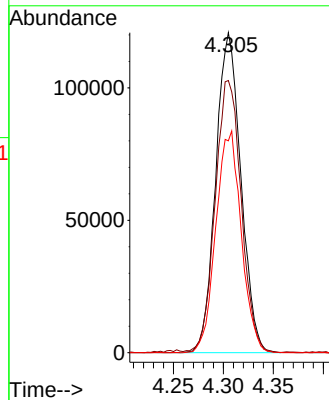
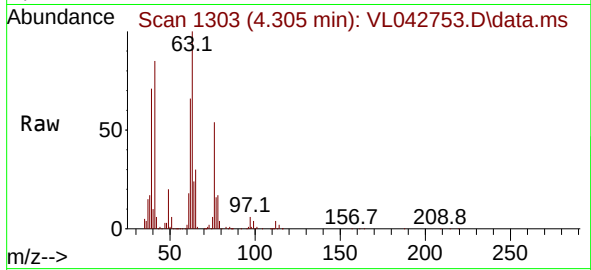
62 66.2 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#40

1,4-Dioxane

Concen: 13.926 ppbv

RT: 4.567 min Scan# 1384

Delta R.T. -0.013 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Tgt Ion: 88 Resp: 98196

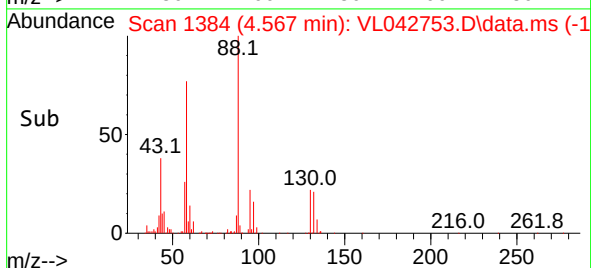
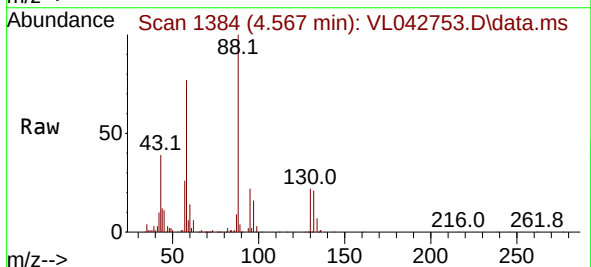
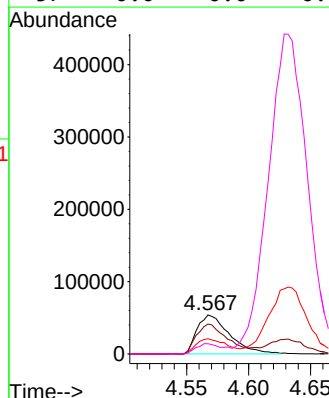
Ion Ratio Lower Upper

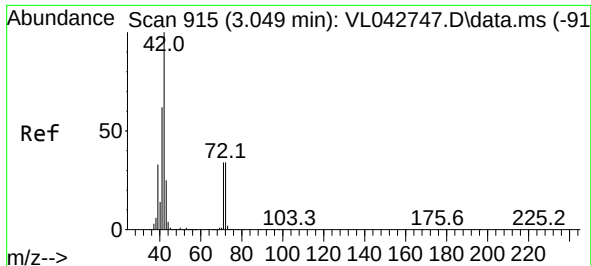
88 100

58 71.9 58.8 88.2

43 35.8 28.9 43.3

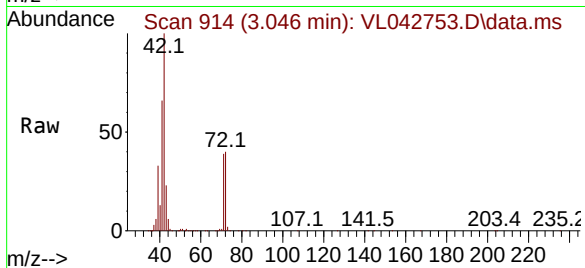
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 15.278 ppbv
RT: 3.046 min Scan# 915
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

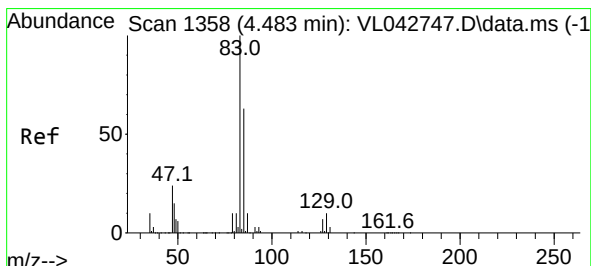
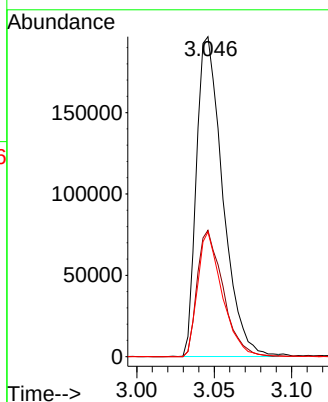
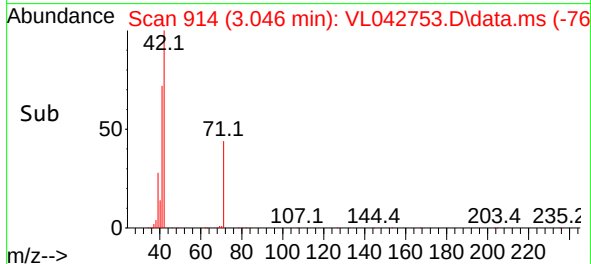
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



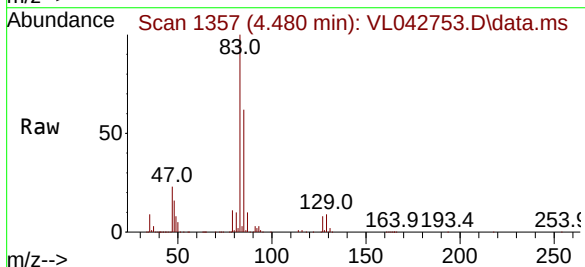
Tgt Ion: 42 Resp: 23239
Ion Ratio Lower Upper
42 100
72 39.2 30.9 46.3
71 36.6 28.6 43.0

Manual Integrations
APPROVED

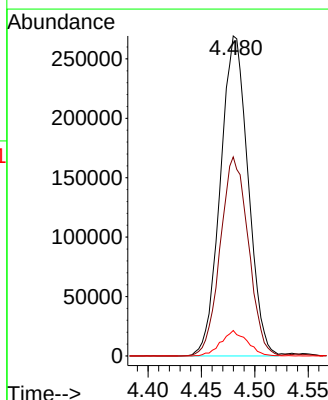
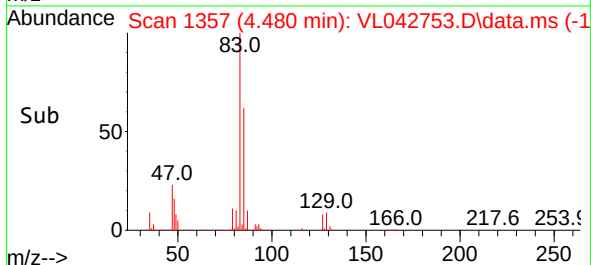
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

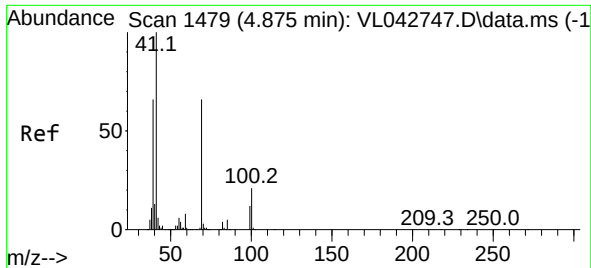


#42
Bromodichloromethane
Concen: 15.303 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



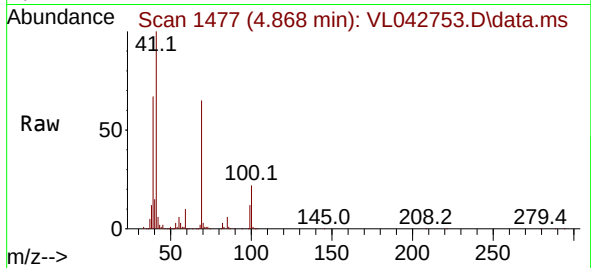
Tgt Ion: 83 Resp: 486831
Ion Ratio Lower Upper
83 100
85 62.2 50.2 75.4
127 8.0 5.4 8.2





#43
Methyl Methacrylate
Concen: 16.059 ppbv
RT: 4.868 min Scan# 1479
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

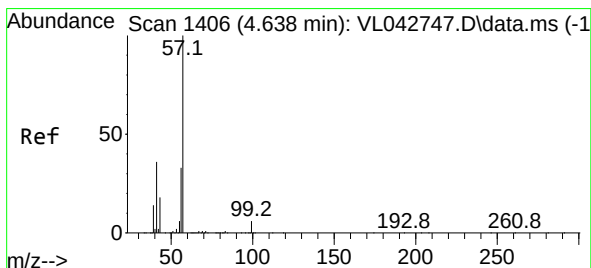
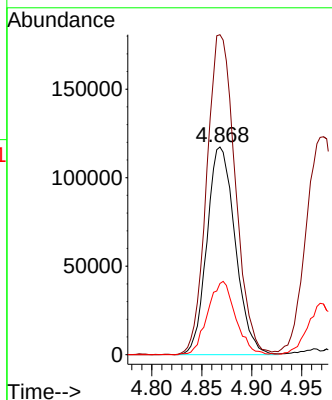
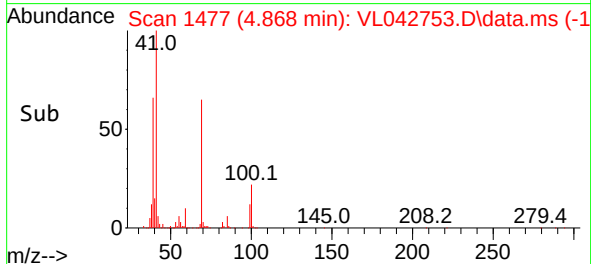
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



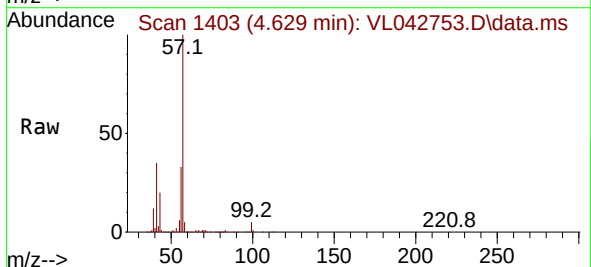
Tgt Ion: 69 Resp: 231227
Ion Ratio Lower Upper
69 100
41 155.0 125.7 188.5
100 34.8 28.6 42.8

Manual Integrations
APPROVED

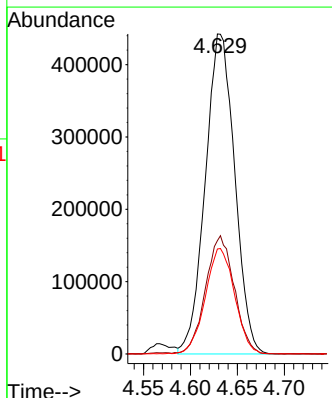
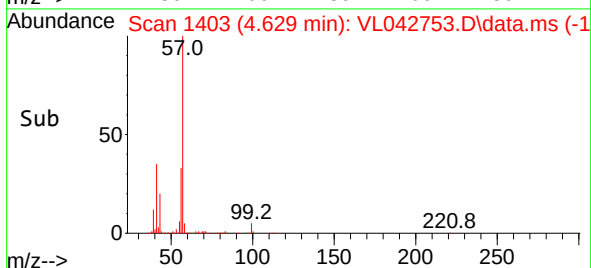
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

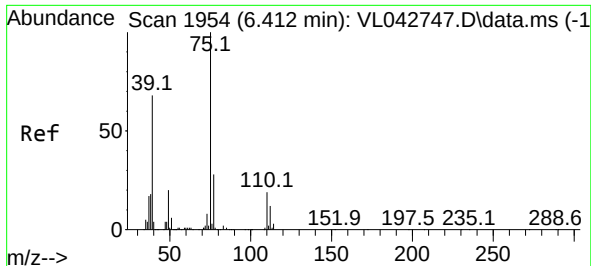


#44
2,2,4-Trimethylpentane
Concen: 14.598 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



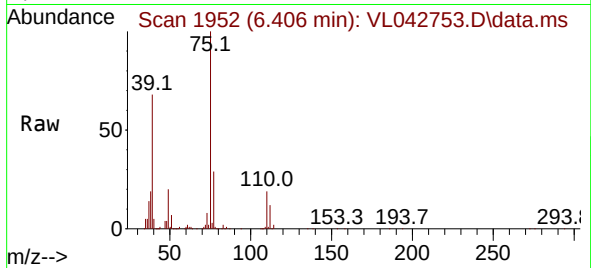
Tgt Ion: 57 Resp: 963867
Ion Ratio Lower Upper
57 100
41 36.4 28.3 42.5
56 32.9 25.8 38.6





#45
t-1,3-Dichloropropene
Concen: 16.478 ppbv
RT: 6.406 min Scan# 1954
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

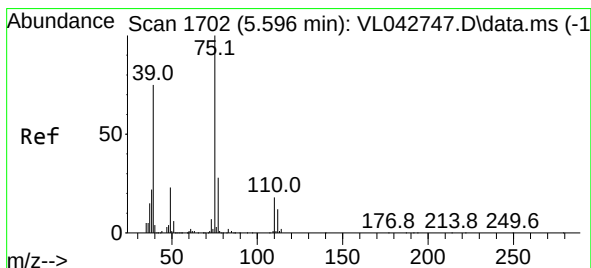
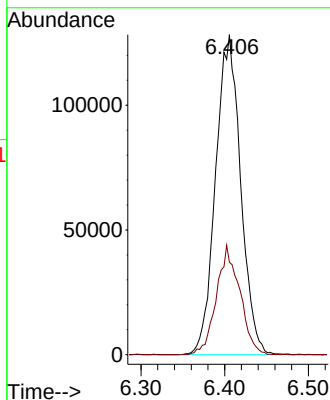
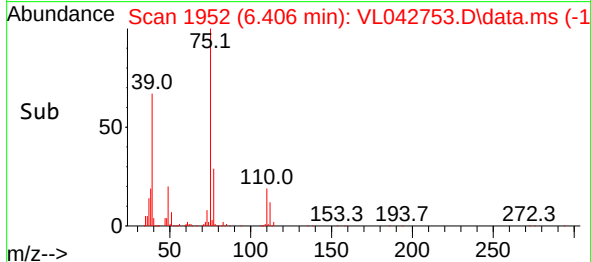
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 75 Resp: 266194
Ion Ratio Lower Upper
75 100
77 28.9 22.4 33.6

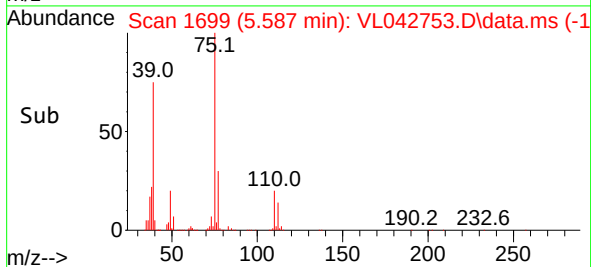
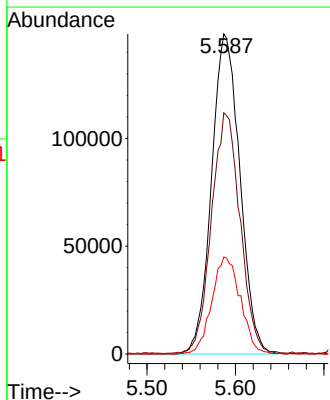
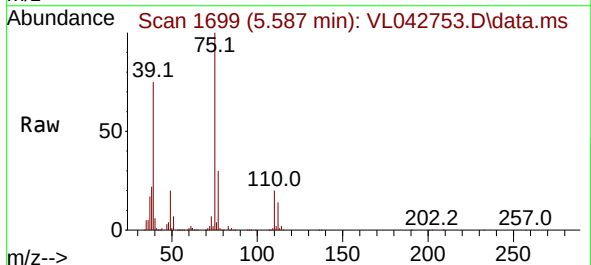
Manual Integrations
APPROVED

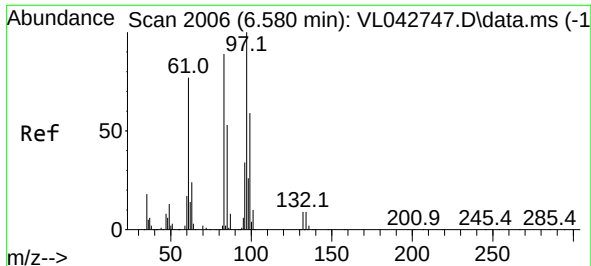
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#46
cis-1,3-Dichloropropene
Concen: 16.115 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. -0.010 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 75 Resp: 329850
Ion Ratio Lower Upper
75 100
39 74.8 60.2 90.2
77 30.2 22.6 34.0





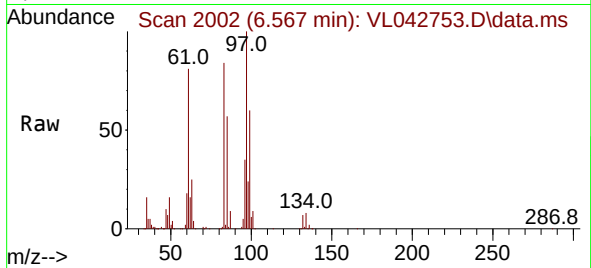
#47
1,1,2-Trichloroethane
Concen: 14.335 ppbv
RT: 6.567 min Scan# 2006
Delta R.T. -0.013 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

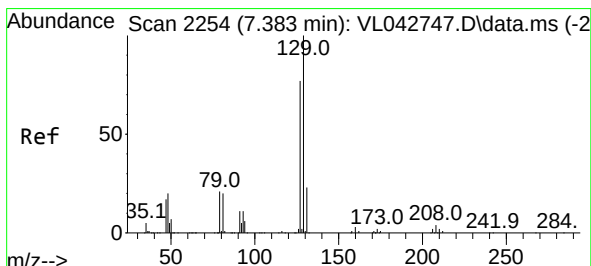
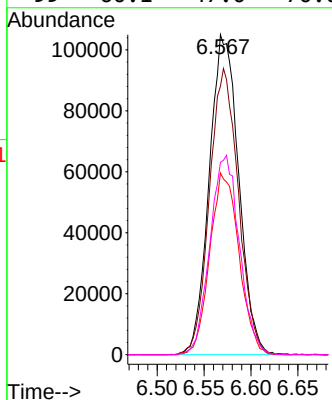
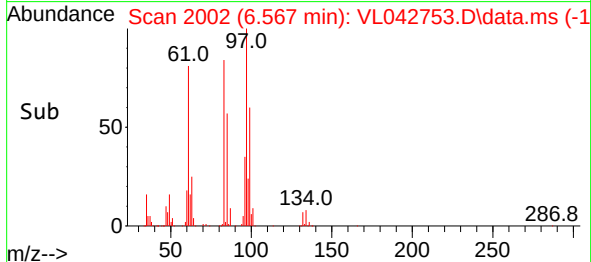


Tgt Ion: 97 Resp: 228492
Ion Ratio Lower Upper
97 100
83 83.7 71.1 106.7
85 56.7 43.0 64.4
99 60.1 47.0 70.6

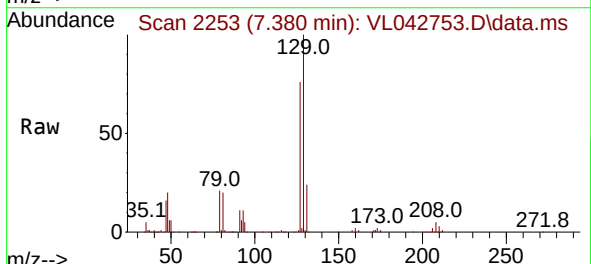
Manual Integrations

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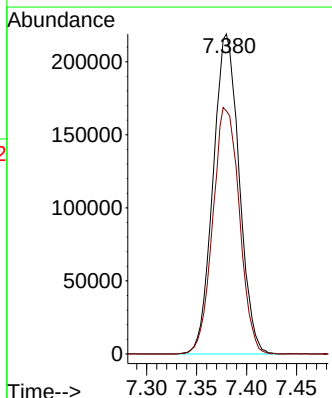
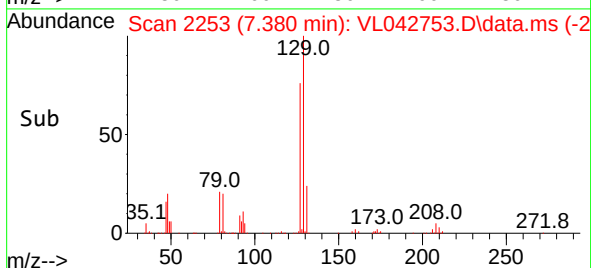
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

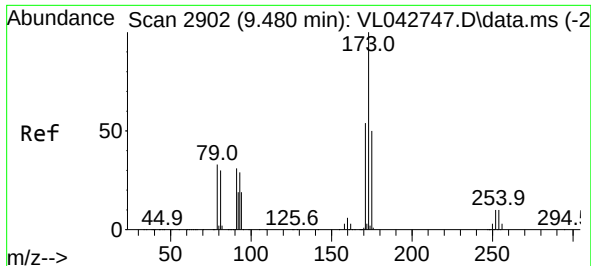


#48
Dibromochloromethane
Concen: 15.695 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



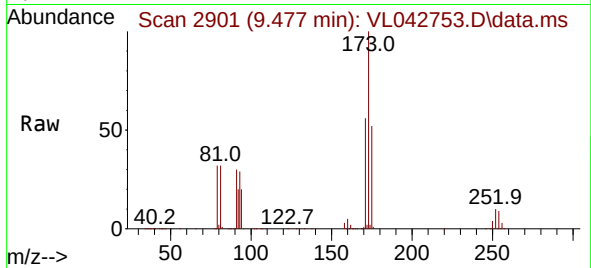
Tgt Ion:129 Resp: 397179
Ion Ratio Lower Upper
129 100
127 78.5 38.7 116.1





#49
Bromoform
Concen: 15.955 ppbv
RT: 9.477 min Scan# 2902
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

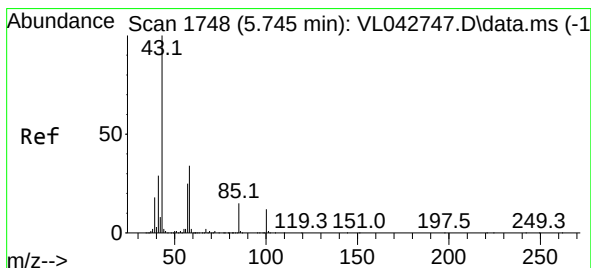
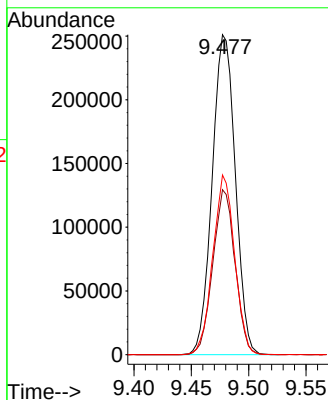
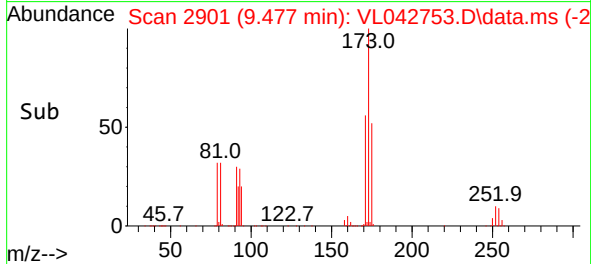
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:173 Resp: 352050
Ion Ratio Lower Upper
173 100
175 49.6 38.4 57.6
171 53.1 40.9 61.3

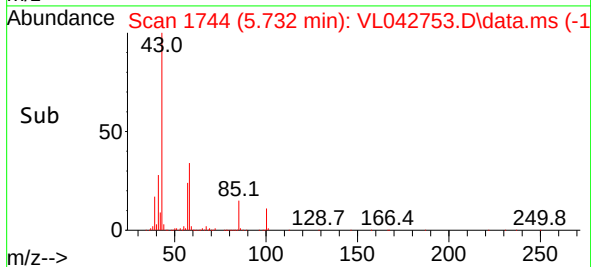
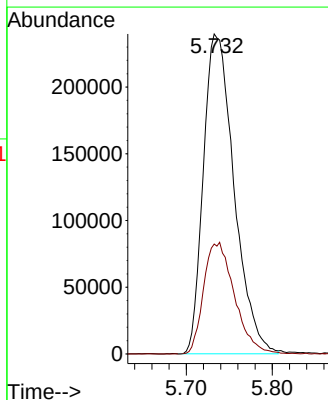
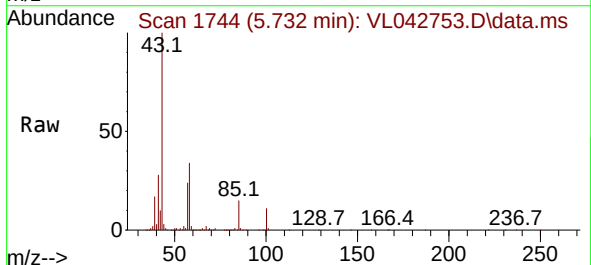
Manual Integrations
APPROVED

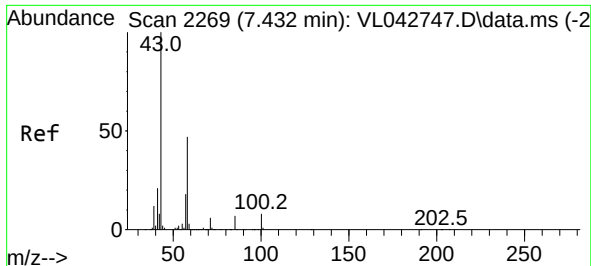
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#50
4-Methyl-2-Pentanone
Concen: 15.427 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. -0.013 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

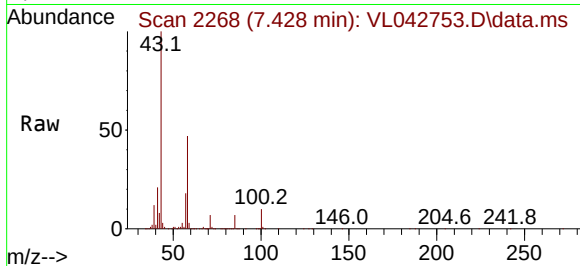
Tgt Ion: 43 Resp: 594973
Ion Ratio Lower Upper
43 100
58 35.1 27.8 41.8





#51
2-Hexanone
Concen: 16.467 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

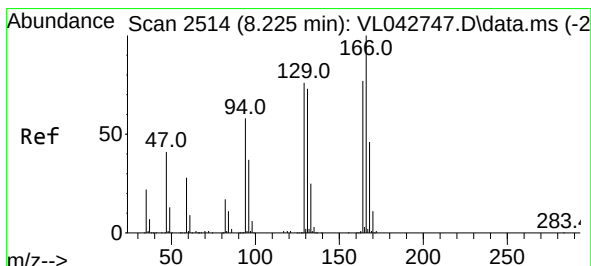
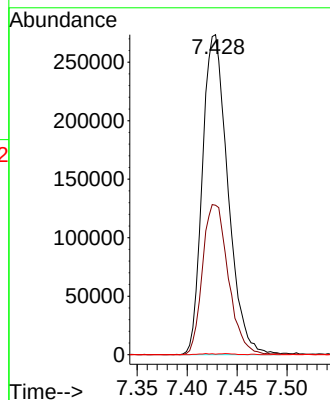
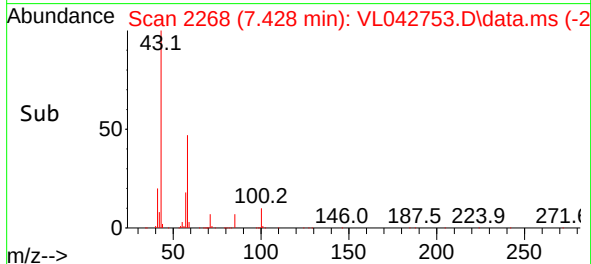
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



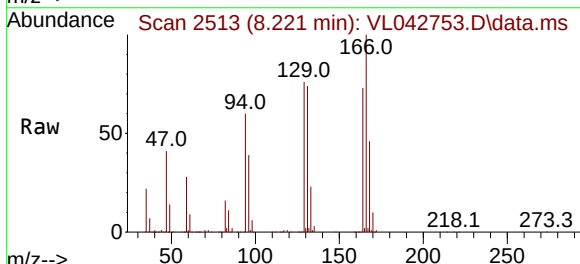
Tgt Ion: 43 Resp: 48532
Ion Ratio Lower Upper
43 100
58 47.7 38.0 57.0
98 0.4 0.2 0.4

Manual Integrations
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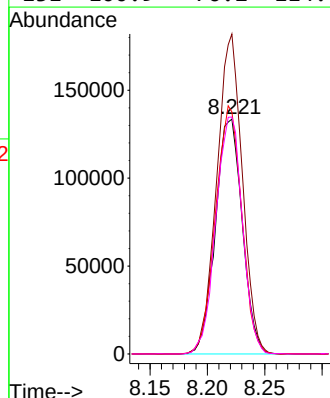
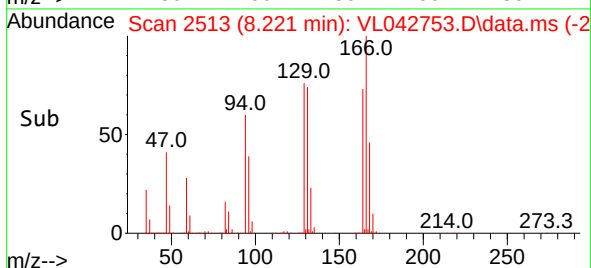
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

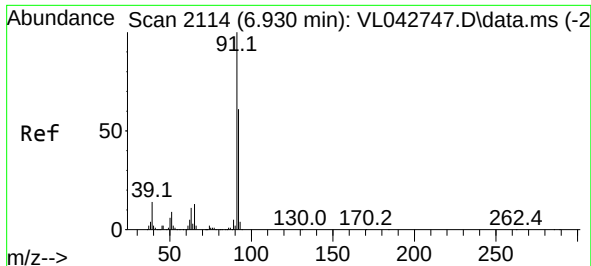


#52
Tetrachloroethene
Concen: 12.899 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



Tgt Ion:164 Resp: 217184
Ion Ratio Lower Upper
164 100
166 136.3 104.0 156.0
129 103.1 79.2 118.8
131 100.9 76.2 114.4





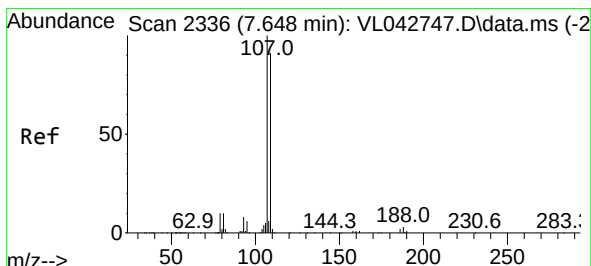
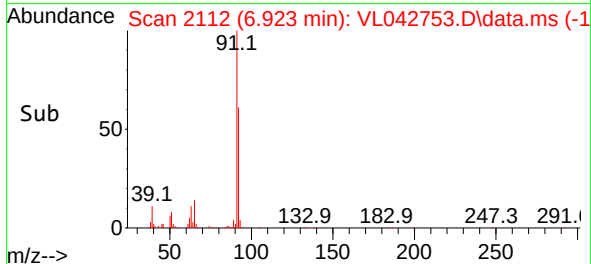
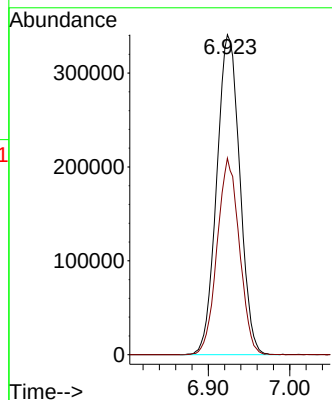
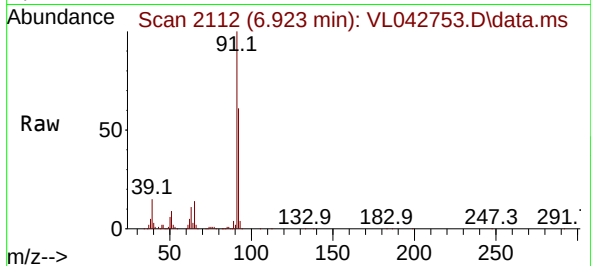
#53
Toluene
Concen: 15.405 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 67014
Ion Ratio Lower Upper
91 100
92 59.3 48.0 72.0

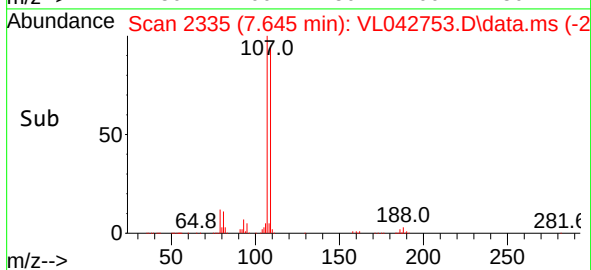
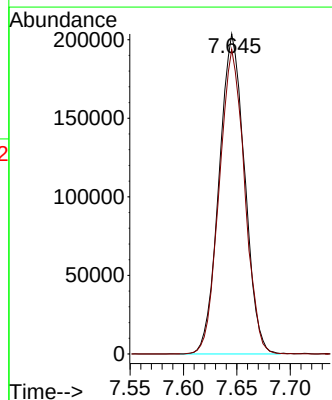
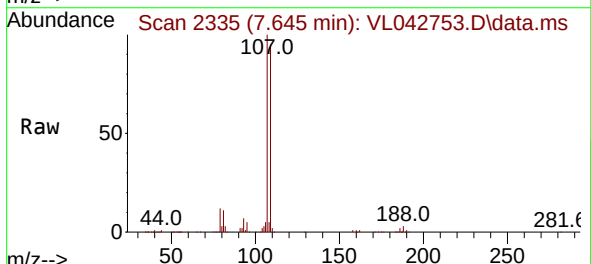
Manual Integrations
APPROVED

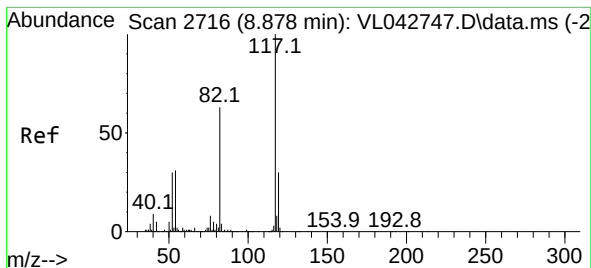
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#54
1,2-Dibromoethane
Concen: 15.019 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:107 Resp: 338867
Ion Ratio Lower Upper
107 100
109 95.1 72.7 109.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

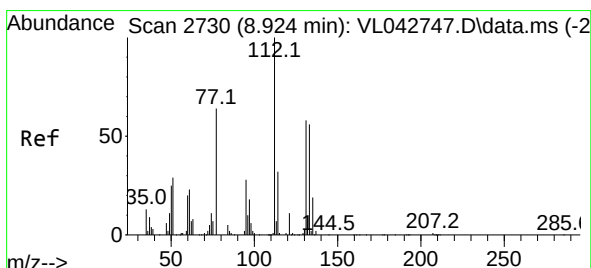
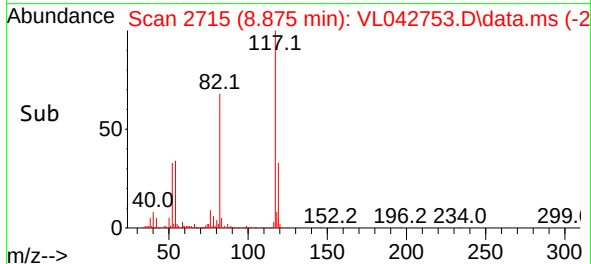
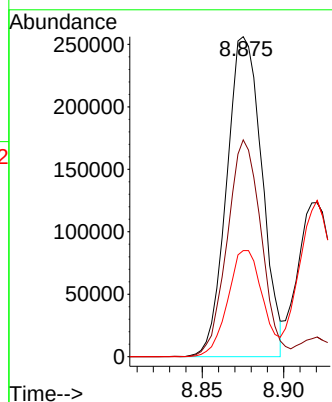
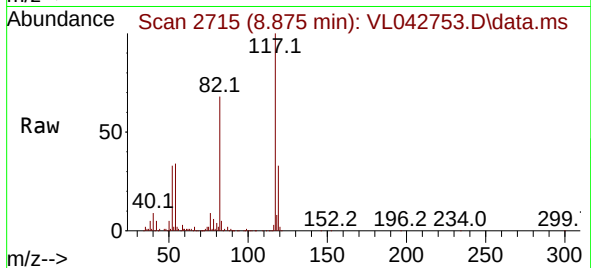
Tgt Ion:117 Resp: 38522

Ion	Ratio	Lower	Upper
117	100		
82	71.0	53.3	79.9
119	32.3	25.8	38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 14.648 ppbv

RT: 8.920 min Scan# 2729

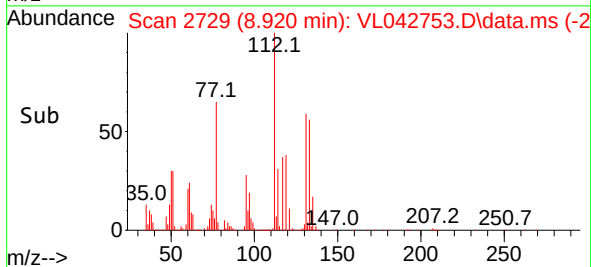
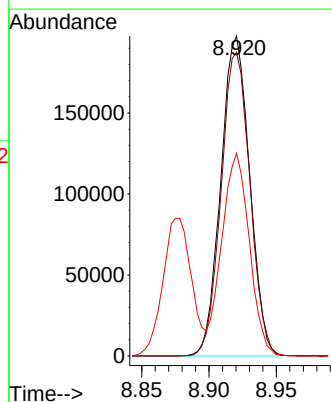
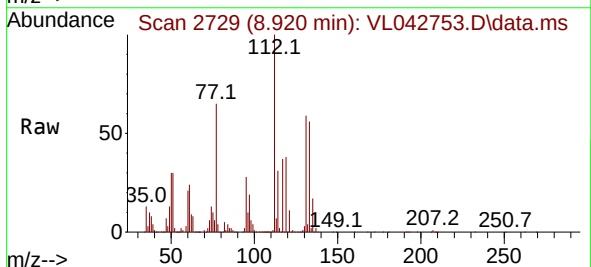
Delta R.T. -0.003 min

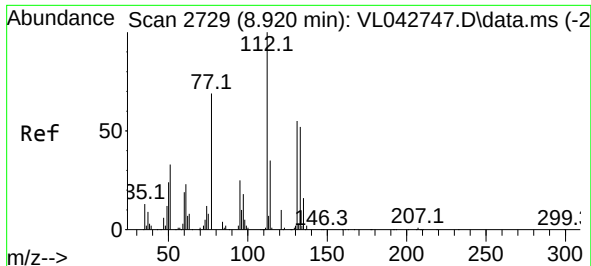
Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Tgt Ion:131 Resp: 293384

Ion	Ratio	Lower	Upper
131	100		
133	95.4	76.8	115.2
119	60.7	49.7	74.5





#57

Chlorobenzene

Concen: 14.025 ppbv

RT: 8.917 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

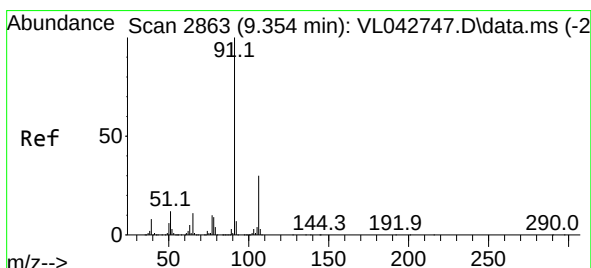
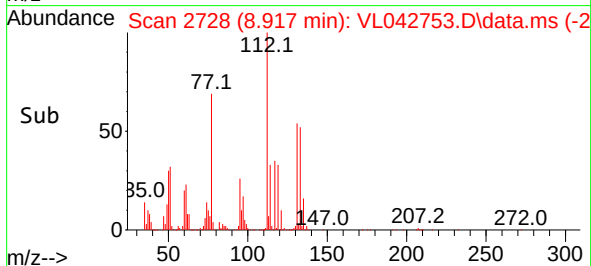
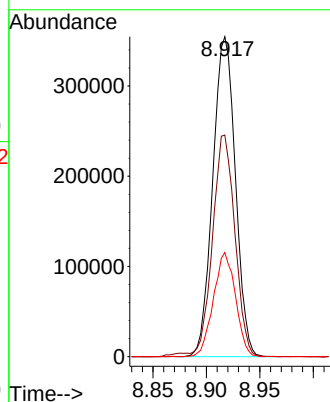
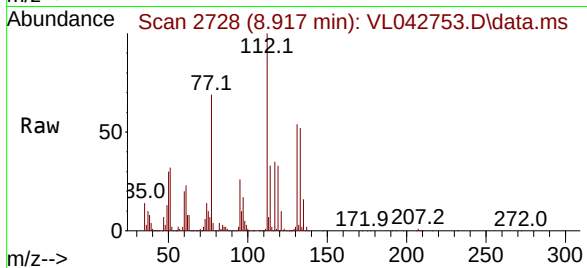
VSTDIC015

Tgt Ion:112	Resp: 522894
Ion Ratio	Lower Upper
112 100	
77 69.2	56.4 84.6
114 32.6	31.2 38.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#58

Ethyl Benzene

Concen: 15.454 ppbv

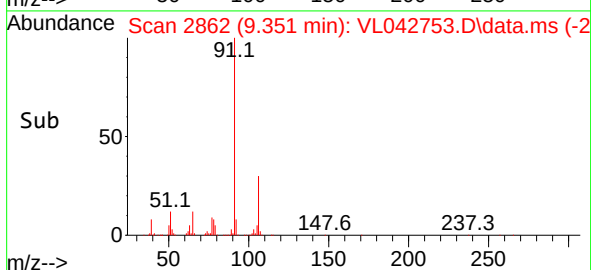
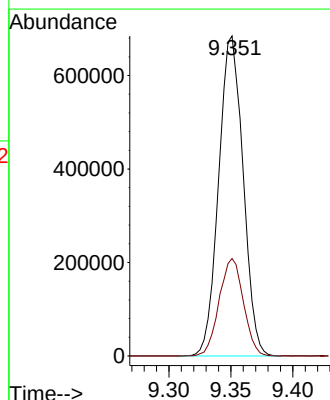
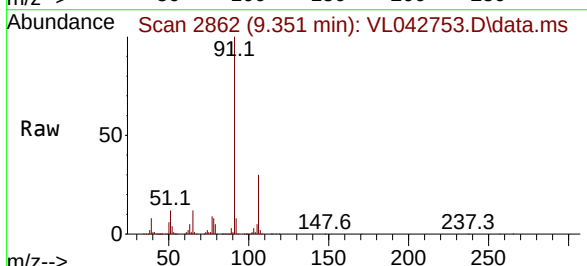
RT: 9.351 min Scan# 2862

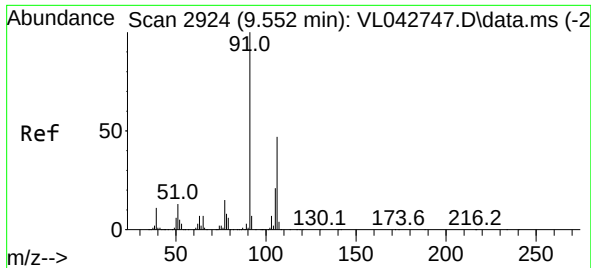
Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Tgt Ion: 91	Resp: 940159
Ion Ratio	Lower Upper
91 100	
106 30.5	23.8 35.6





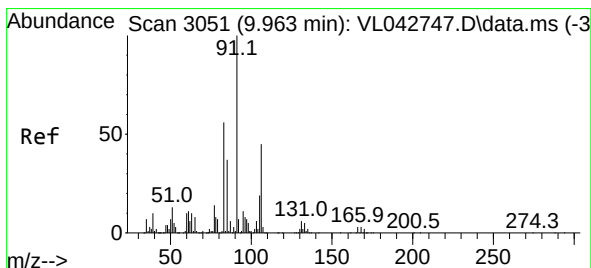
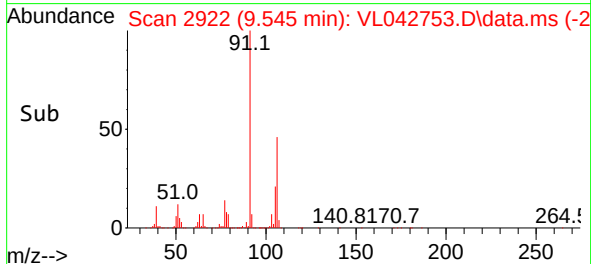
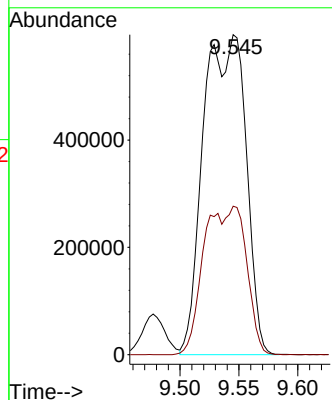
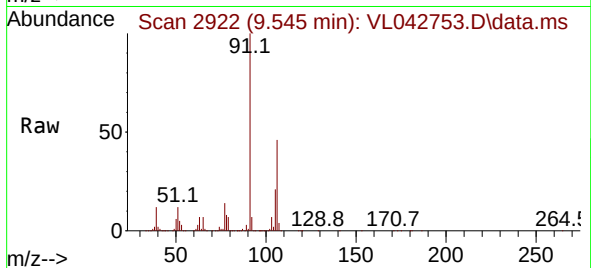
#59
m/p-Xylene
Concen: 30.800 ppbv m
RT: 9.545 min Scan# 2924
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 149793
Ion Ratio Lower Upper
91 100
106 46.6 37.4 56.2

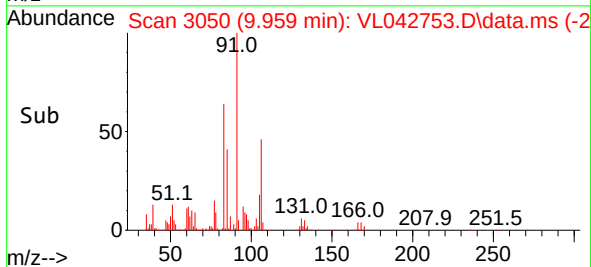
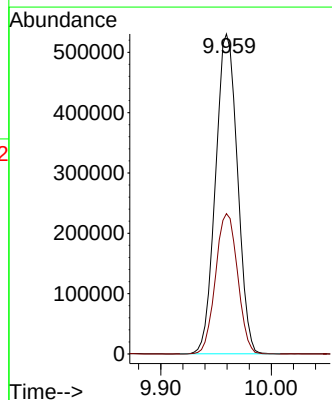
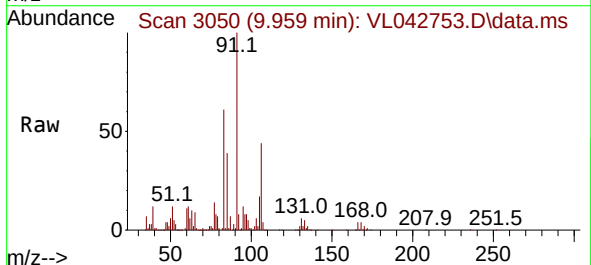
Manual Integrations
APPROVED

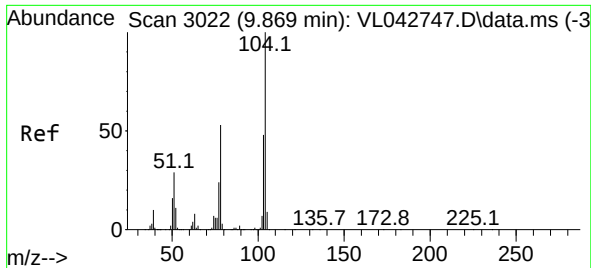
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#60
o-Xylene
Concen: 15.030 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 91 Resp: 730161
Ion Ratio Lower Upper
91 100
106 44.1 22.0 66.0





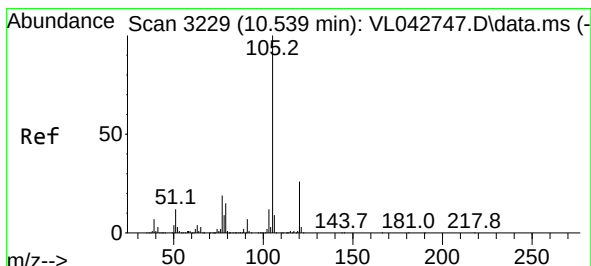
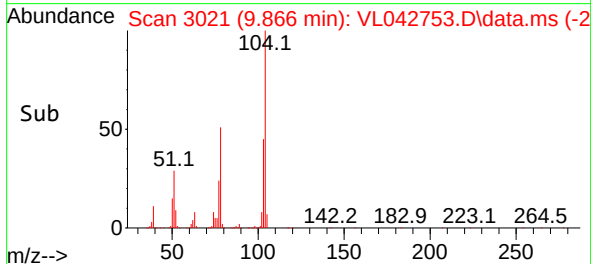
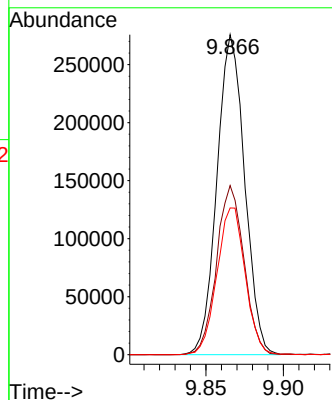
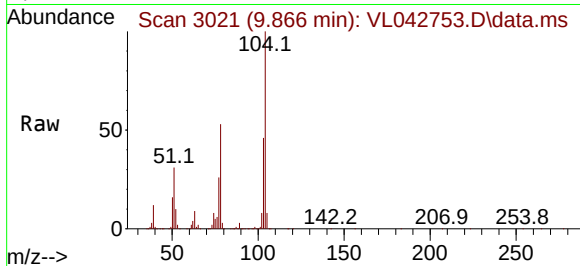
#61
Styrene
Concen: 16.805 ppbv
RT: 9.866 min Scan# 3022
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:104 Resp: 343429
Ion Ratio Lower Upper
104 100
78 52.3 41.5 62.3
103 46.9 37.5 56.3

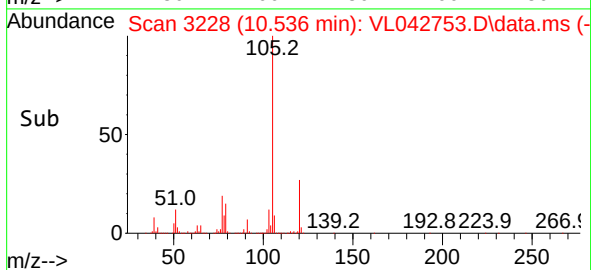
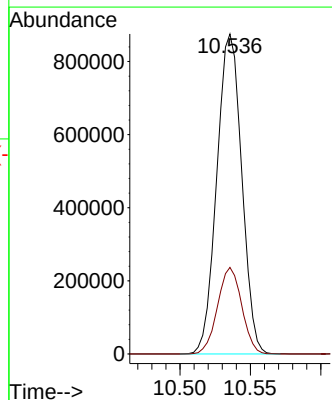
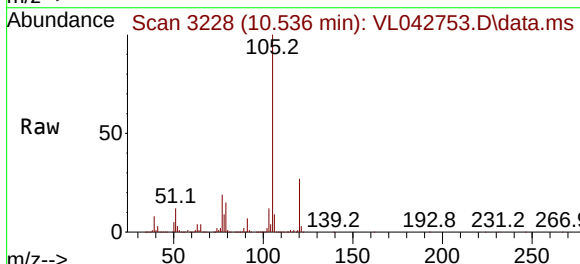
Manual Integrations
APPROVED

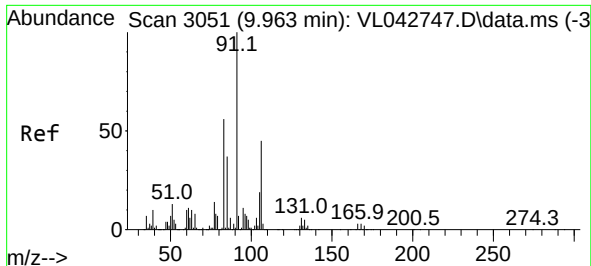
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#62
Isopropylbenzene
Concen: 15.049 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

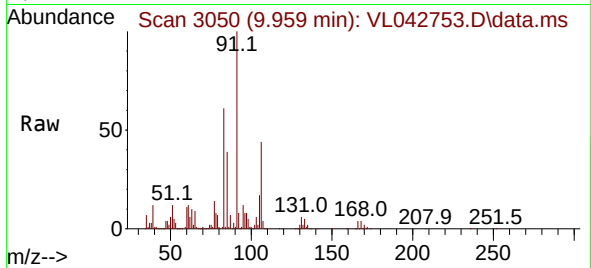
Tgt Ion:105 Resp: 1078393
Ion Ratio Lower Upper
105 100
120 26.2 20.5 30.7





#63
1,1,2,2-Tetrachloroethane
Concen: 13.261 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

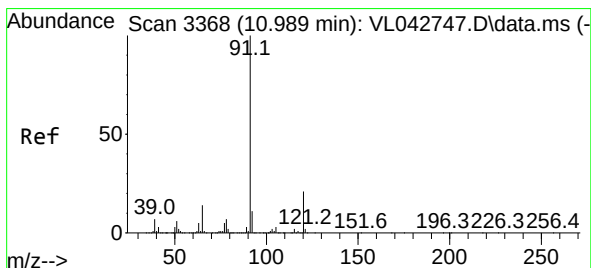
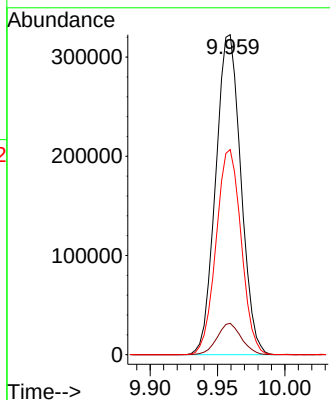
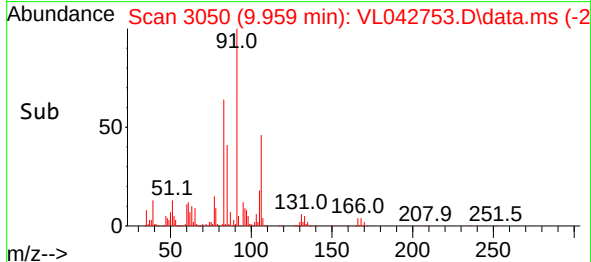
Instrument : MSVOA_L
ClientSampleId : VSTDIC015



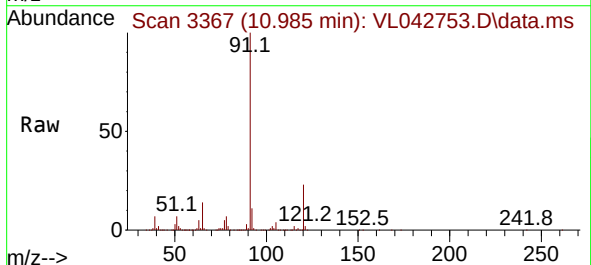
Tgt Ion: 83 Resp: 419734
Ion Ratio Lower Upper
83 100
131 9.5 5.0 15.0
85 63.8 32.6 97.7

Manual Integrations
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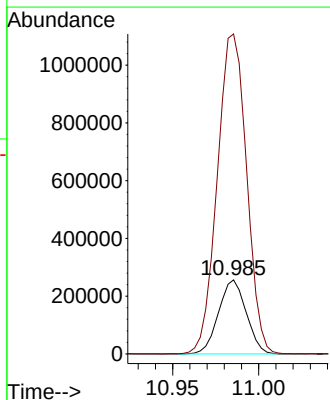
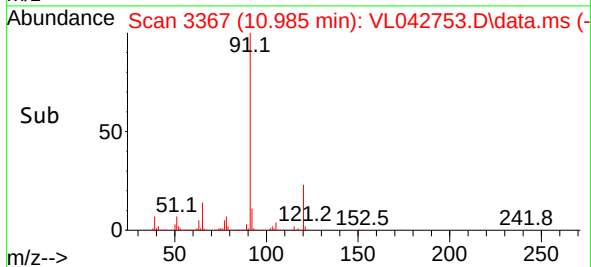
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

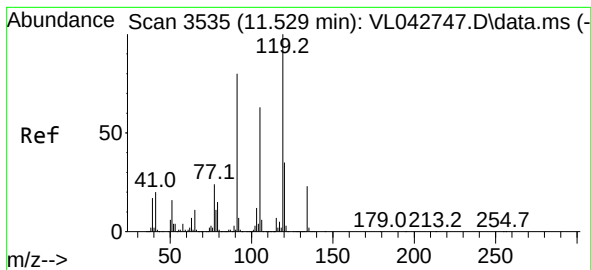


#64
n-propylbenzene
Concen: 15.348 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



Tgt Ion:120 Resp: 286724
Ion Ratio Lower Upper
120 100
91 458.1 372.7 559.1





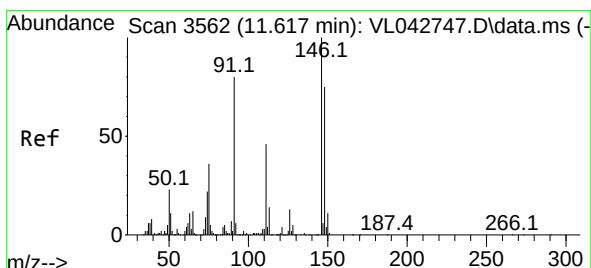
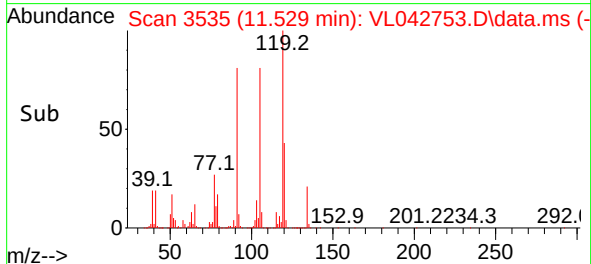
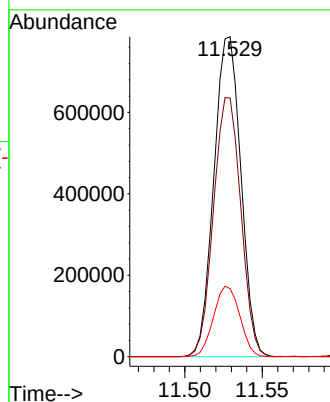
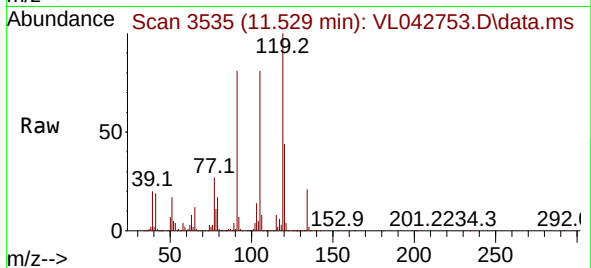
#65
tert-Butylbenzene
Concen: 14.995 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument : MSVOA_L
ClientSampleId : VSTDIC015

Tgt Ion: 119 Resp: 954459
Ion Ratio Lower Upper
119 100
91 81.9 64.0 96.0
134 21.4 17.3 25.9

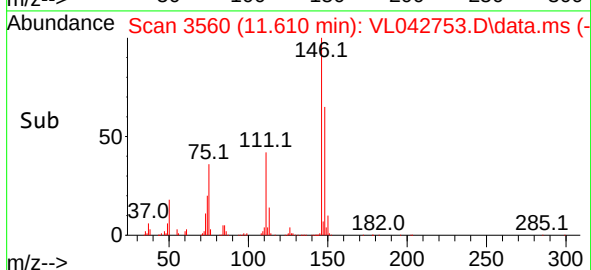
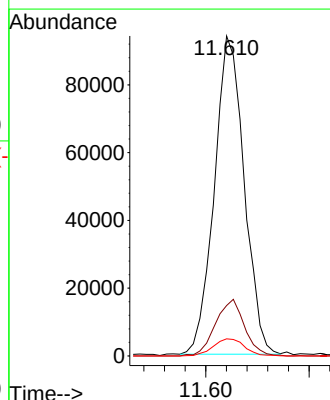
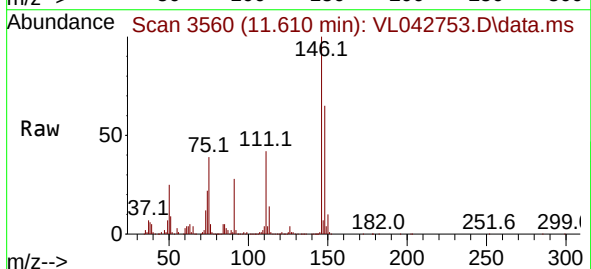
Manual Integrations
APPROVED

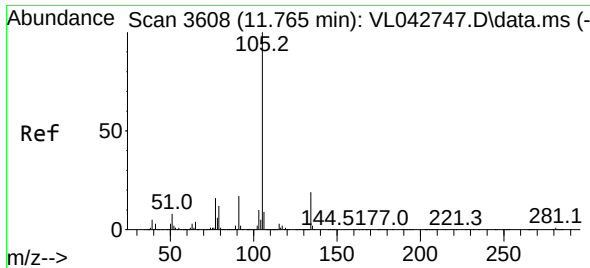
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#66
Benzyl Chloride
Concen: 18.031 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

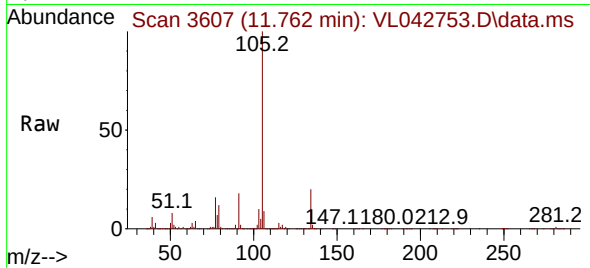
Tgt Ion: 91 Resp: 94218
Ion Ratio Lower Upper
91 100
126 17.3 14.4 21.6
128 5.7 5.2 7.8





#67
 sec-Butylbenzene
 Concen: 14.662 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

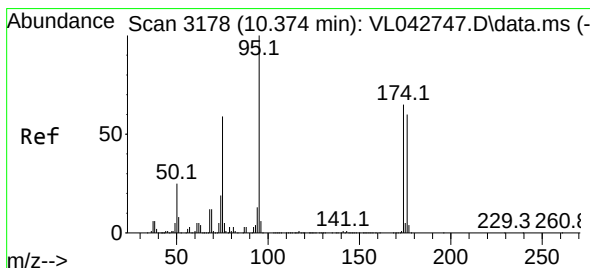
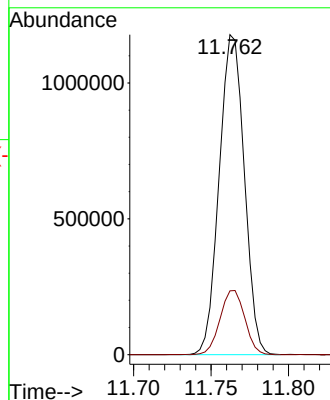
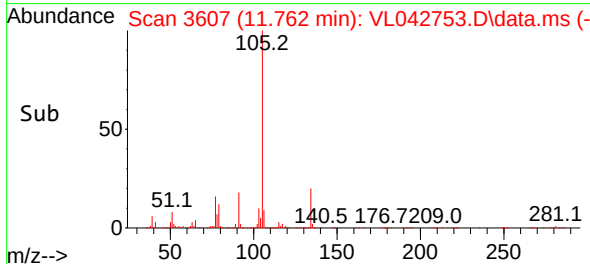
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



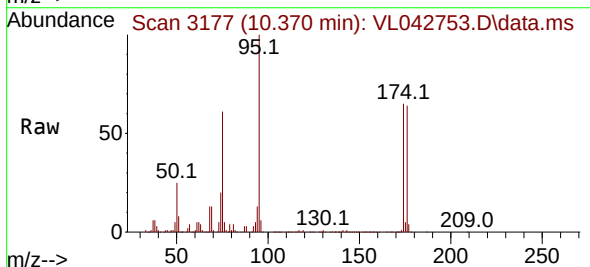
Tgt Ion:105 Resp: 132739
 Ion Ratio Lower Upper
 105 100
 134 19.8 15.5 23.3

Manual Integrations
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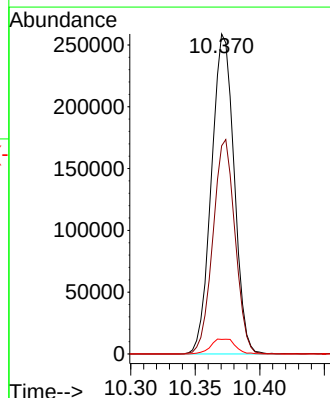
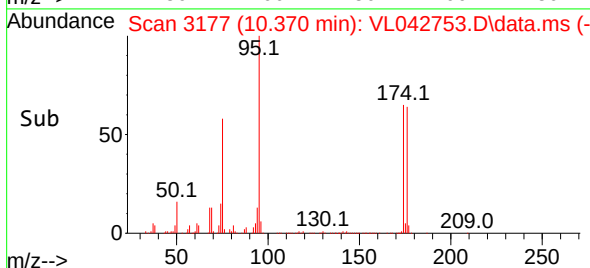
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

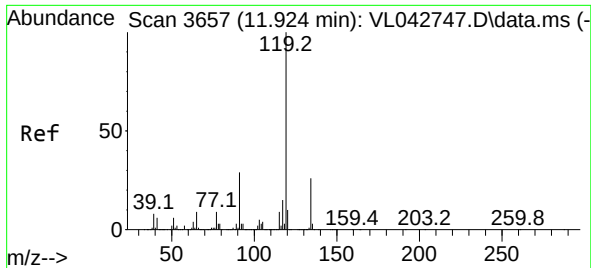


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.335 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26



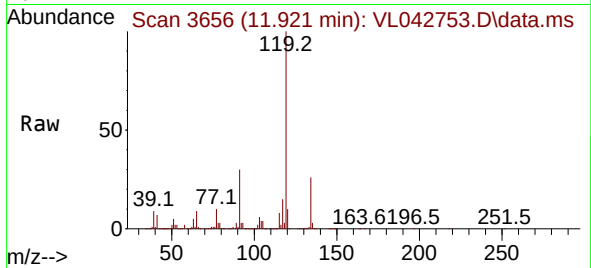
Tgt Ion: 95 Resp: 315293
 Ion Ratio Lower Upper
 95 100
 174 65.7 53.8 80.6
 175 5.0 4.0 6.0





#69
p-Isopropyltoluene
Concen: 15.571 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

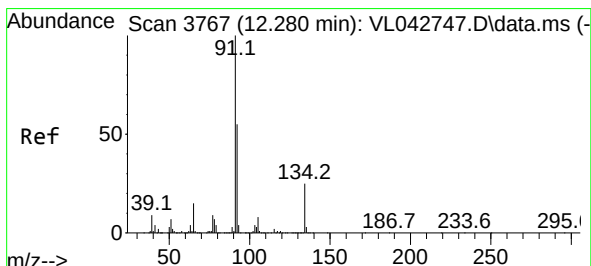
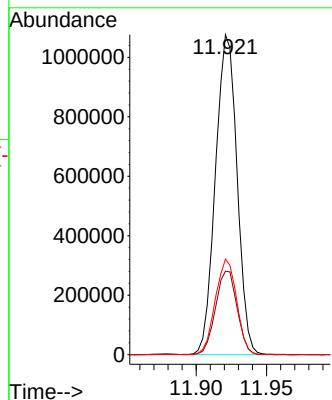
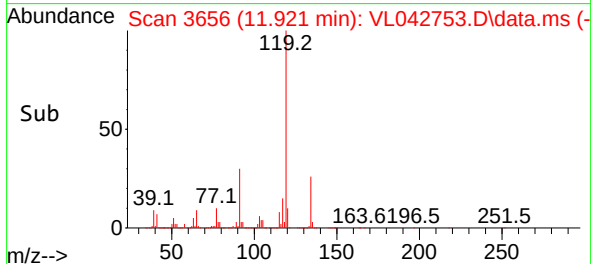
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



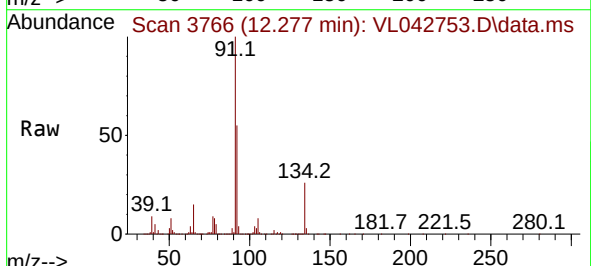
Tgt Ion: 119 Resp: 1149418
Ion Ratio Lower Upper
119 100
134 26.3 20.6 31.0
91 29.6 23.2 34.8

Manual Integrations
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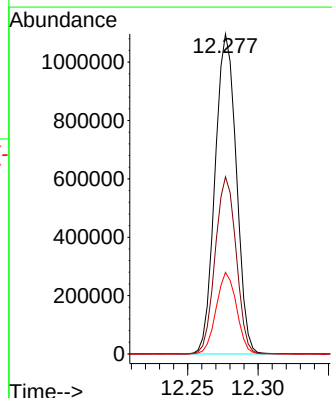
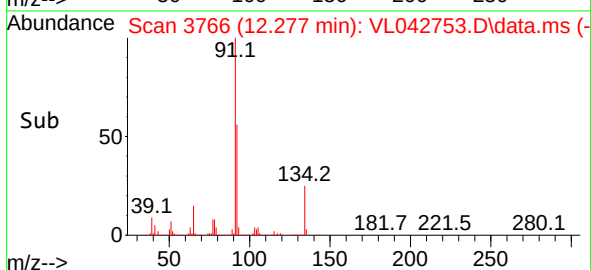
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

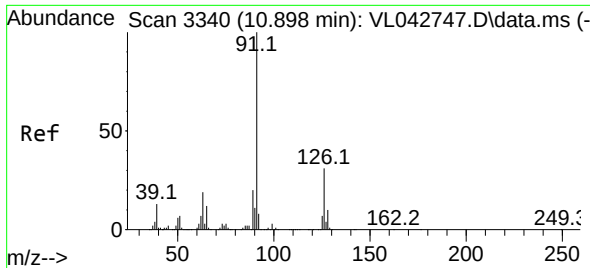


#70
n-Butylbenzene
Concen: 16.159 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



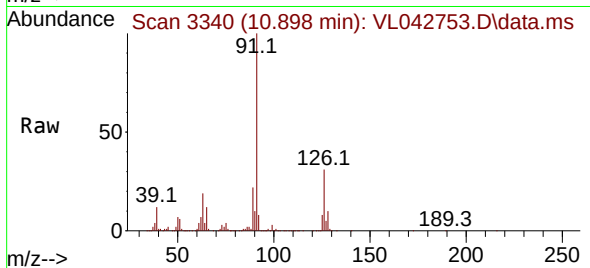
Tgt Ion: 91 Resp: 1152207
Ion Ratio Lower Upper
91 100
92 54.6 43.4 65.2
134 24.5 19.6 29.4





#71
2-Chlorotoluene
Concen: 15.257 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

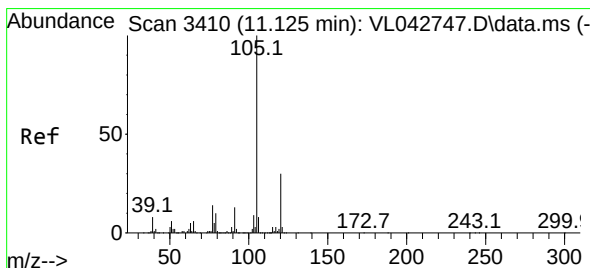
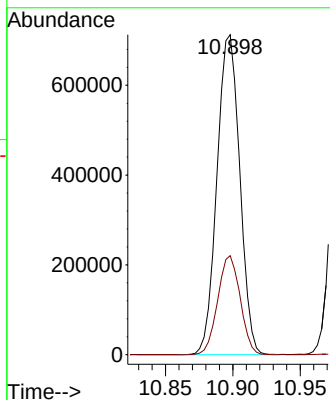
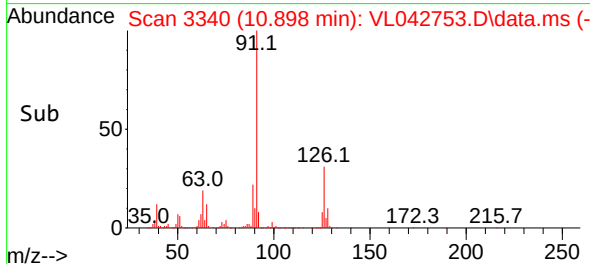
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



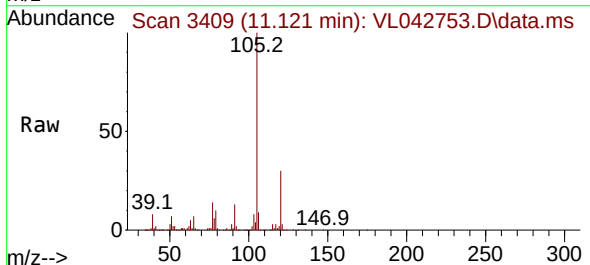
Tgt Ion: 91 Resp: 83833
Ion Ratio Lower Upper
91 100
126 30.5 12.0 48.2

Manual Integrations
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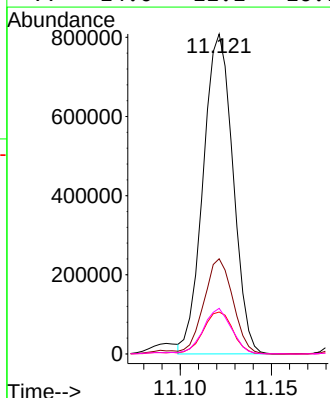
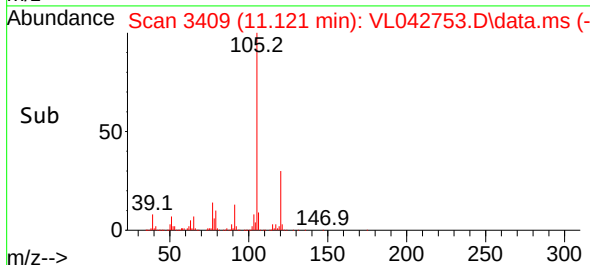
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

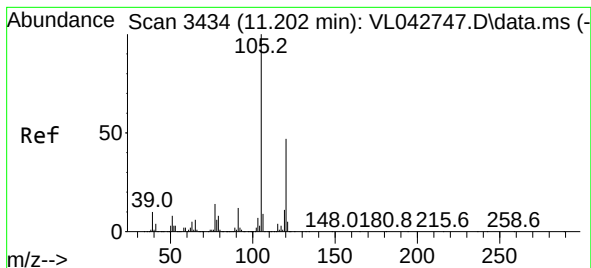


#72
4-Ethyltoluene
Concen: 15.830 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



Tgt Ion:105 Resp: 918453
Ion Ratio Lower Upper
105 100
120 30.1 24.4 36.6
91 13.5 10.6 15.8
77 14.0 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 15.977 ppbv

RT: 11.199 min Scan# 3434

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion:105 Resp: 763212

Ion Ratio Lower Upper

105 100

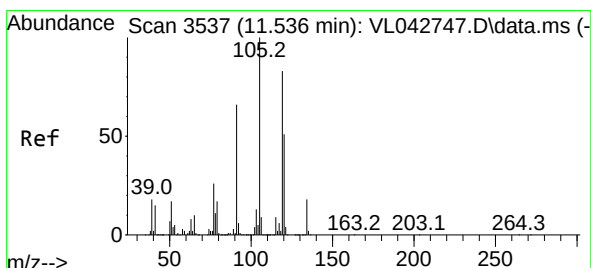
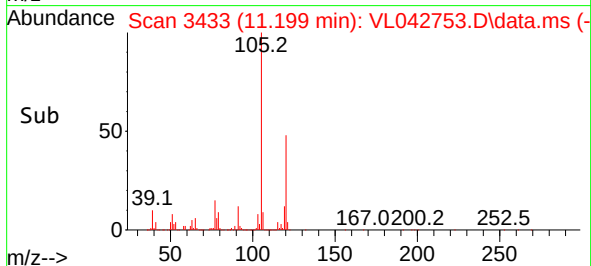
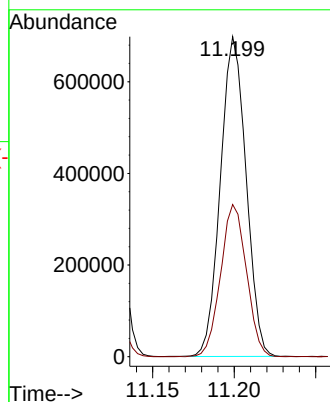
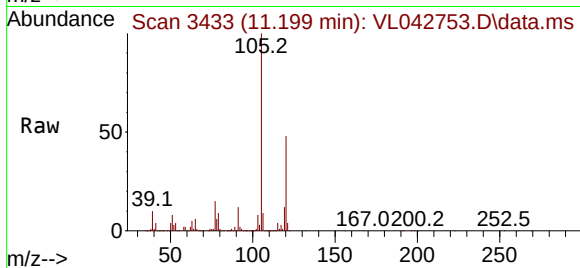
120 47.5 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#74

1,2,4-Trimethylbenzene

Concen: 15.873 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Tgt Ion:105 Resp: 827222

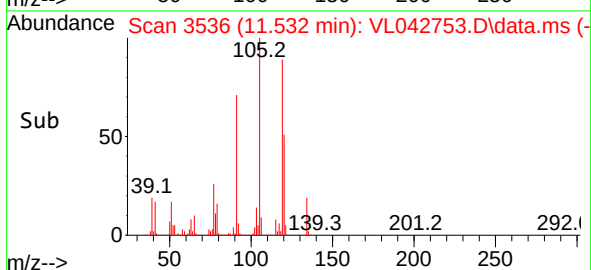
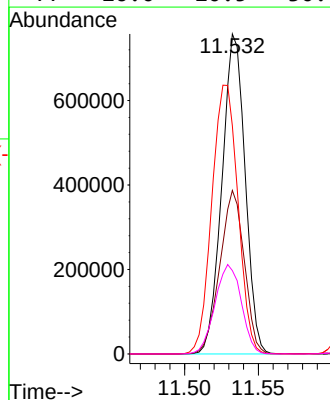
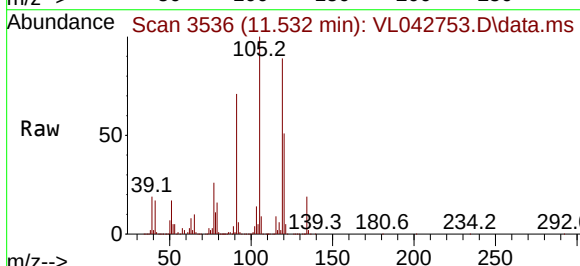
Ion Ratio Lower Upper

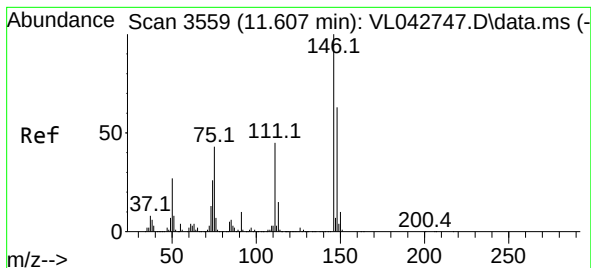
105 100

120 51.1 40.8 61.2

91 71.2 53.0 79.4

77 26.0 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 14.761 ppbv

RT: 11.604 min Scan# 3559

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

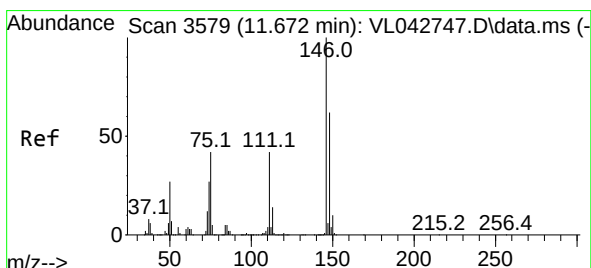
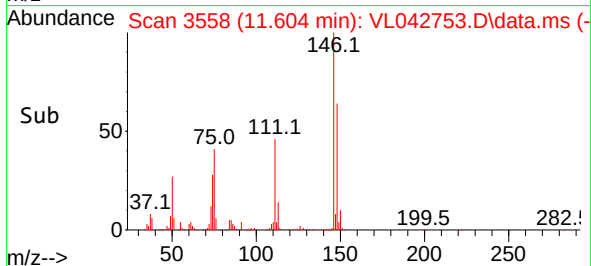
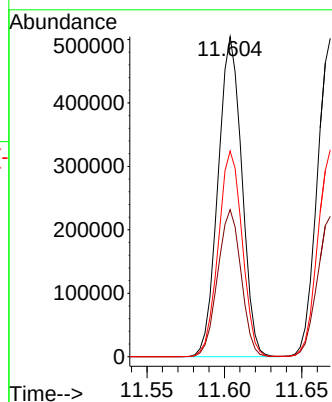
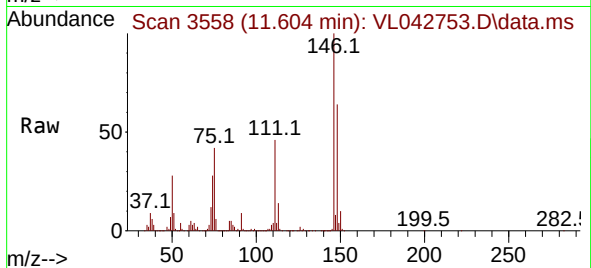
VSTDIC015

Tgt Ion:146 Resp: 539284
 Ion Ratio Lower Upper
 146 100
 111 45.2 22.7 68.0
 148 64.6 31.9 95.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#76

1,4-Dichlorobenzene

Concen: 15.188 ppbv

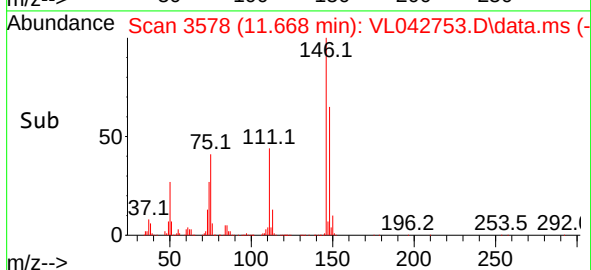
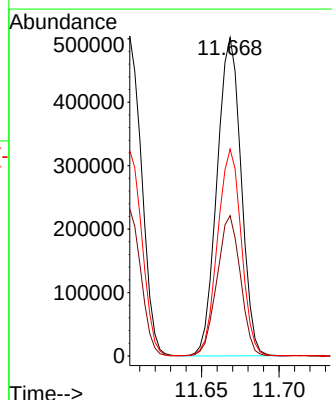
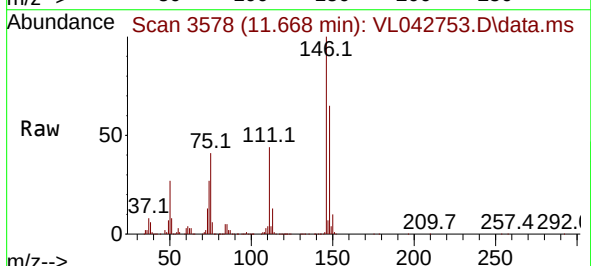
RT: 11.668 min Scan# 3578

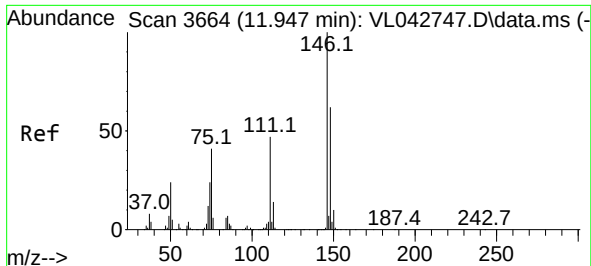
Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

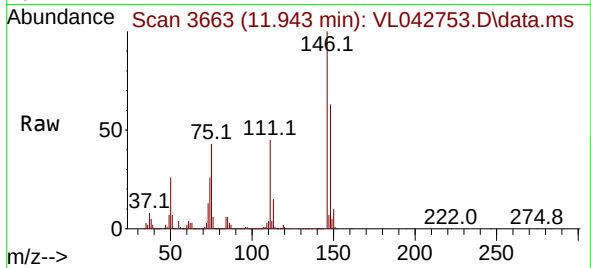
Tgt Ion:146 Resp: 542998
 Ion Ratio Lower Upper
 146 100
 111 43.1 21.4 64.2
 148 64.3 32.1 96.3





#77
1,2-Dichlorobenzene
Concen: 14.390 ppbv
RT: 11.943 min Scan# 3663
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

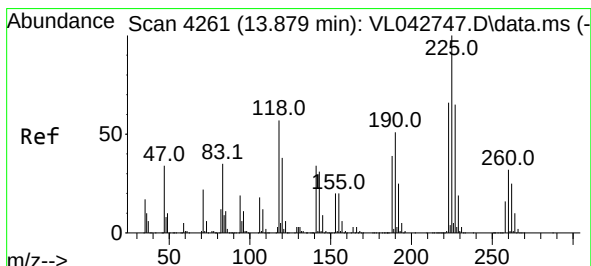
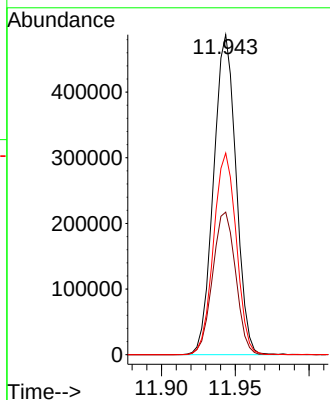
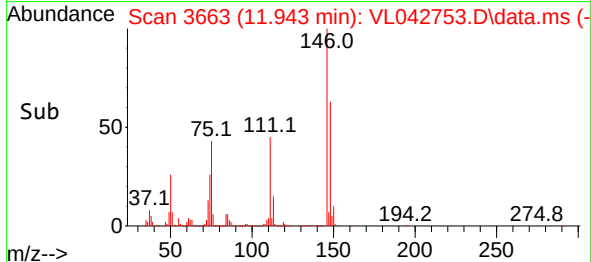
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



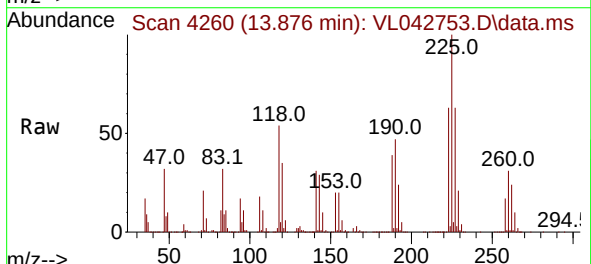
Tgt Ion:146 Resp: 516714
Ion Ratio Lower Upper
146 100
111 45.9 23.7 71.1
148 64.0 32.6 97.7

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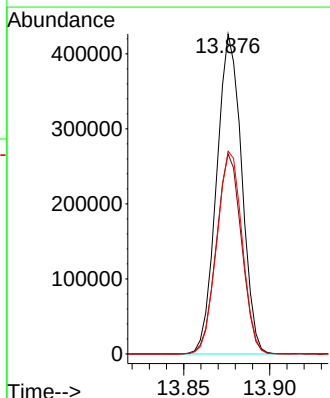
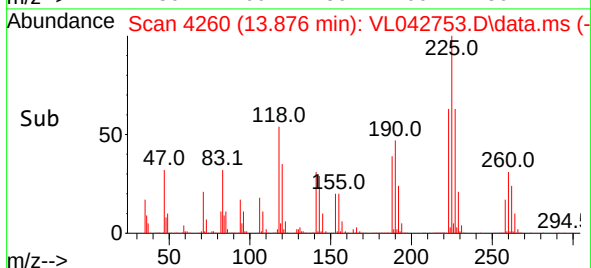
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

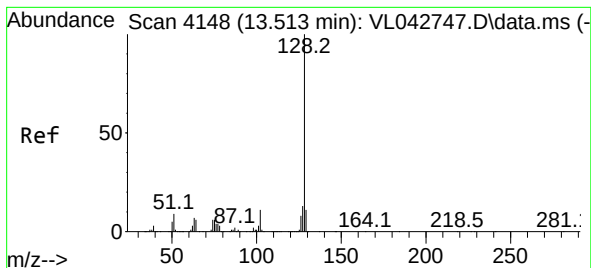


#78
Hexachloro-1,3-Butadiene
Concen: 13.296 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26



Tgt Ion:225 Resp: 432138
Ion Ratio Lower Upper
225 100
223 62.9 50.7 76.1
227 64.3 50.5 75.7





#79

Naphthalene

Concen: 15.265 ppbv

RT: 13.507 min Scan# 4146

Delta R.T. -0.006 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:128 Resp: 876734

Ion Ratio Lower Upper

128 100

127 13.4 10.5 15.7

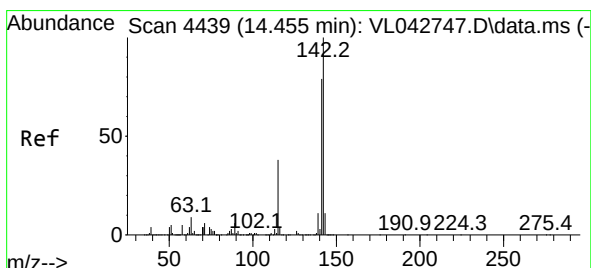
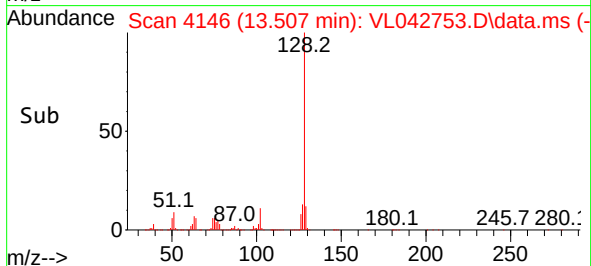
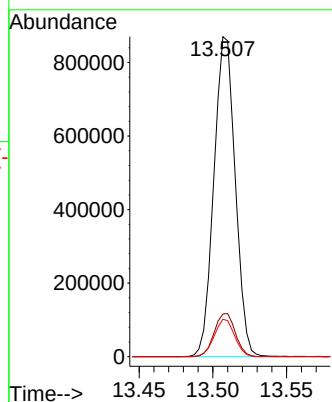
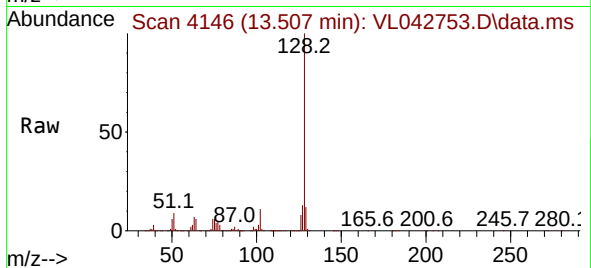
129 11.7 8.6 13.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#80

Naphthalene,2-methyl-

Concen: 15.438 ppbv

RT: 14.452 min Scan# 4438

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

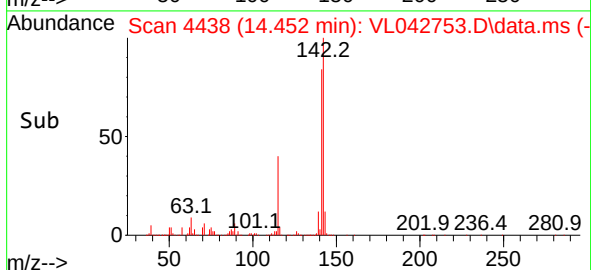
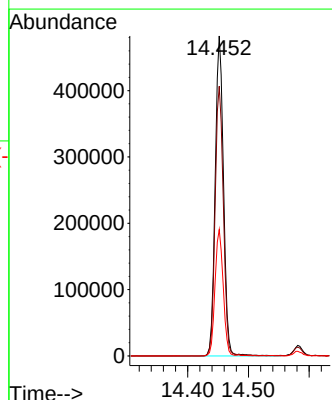
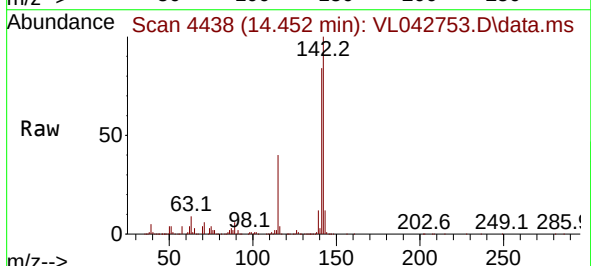
Tgt Ion:142 Resp: 456529

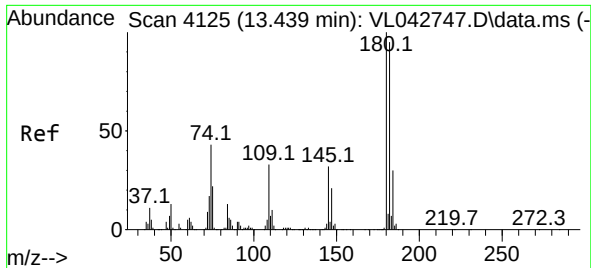
Ion Ratio Lower Upper

142 100

141 84.4 65.8 98.8

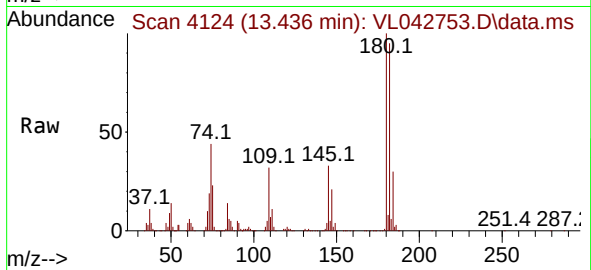
115 39.2 31.2 46.8





#81
 1,2,4-Trichlorobenzene
 Concen: 15.200 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

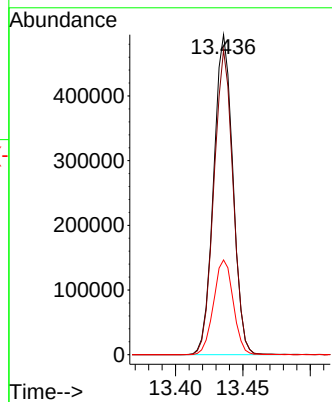
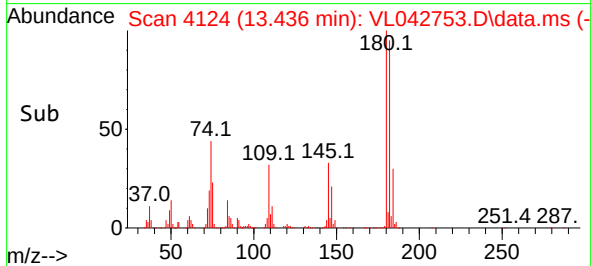
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 490579
 Ion Ratio Lower Upper
 180 100
 182 94.8 76.2 114.2
 184 30.3 24.8 37.2

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042754.D
 Acq On : 23 Jul 2025 13:00
 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 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:01:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	152358	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.953	114	438604	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	393042	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	298283	9.583	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	837	0.104	ppbv #	60
32) 1,1,1-Trichloroethane	3.363	97	3550	0.108	ppbv	96
35) Carbon Tetrachloride	3.758	117	3035m	0.093	ppbv	
38) Trichloroethene	4.555	130	2207m	0.110	ppbv	
52) Tetrachloroethene	8.222	164	1852m	0.107	ppbv	
54) 1,2-Dibromoethane	7.665	107	2184m	0.094	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	3084m	0.095	ppbv	
79) Naphthalene	13.514	128	2509	0.475	ppbv #	96

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

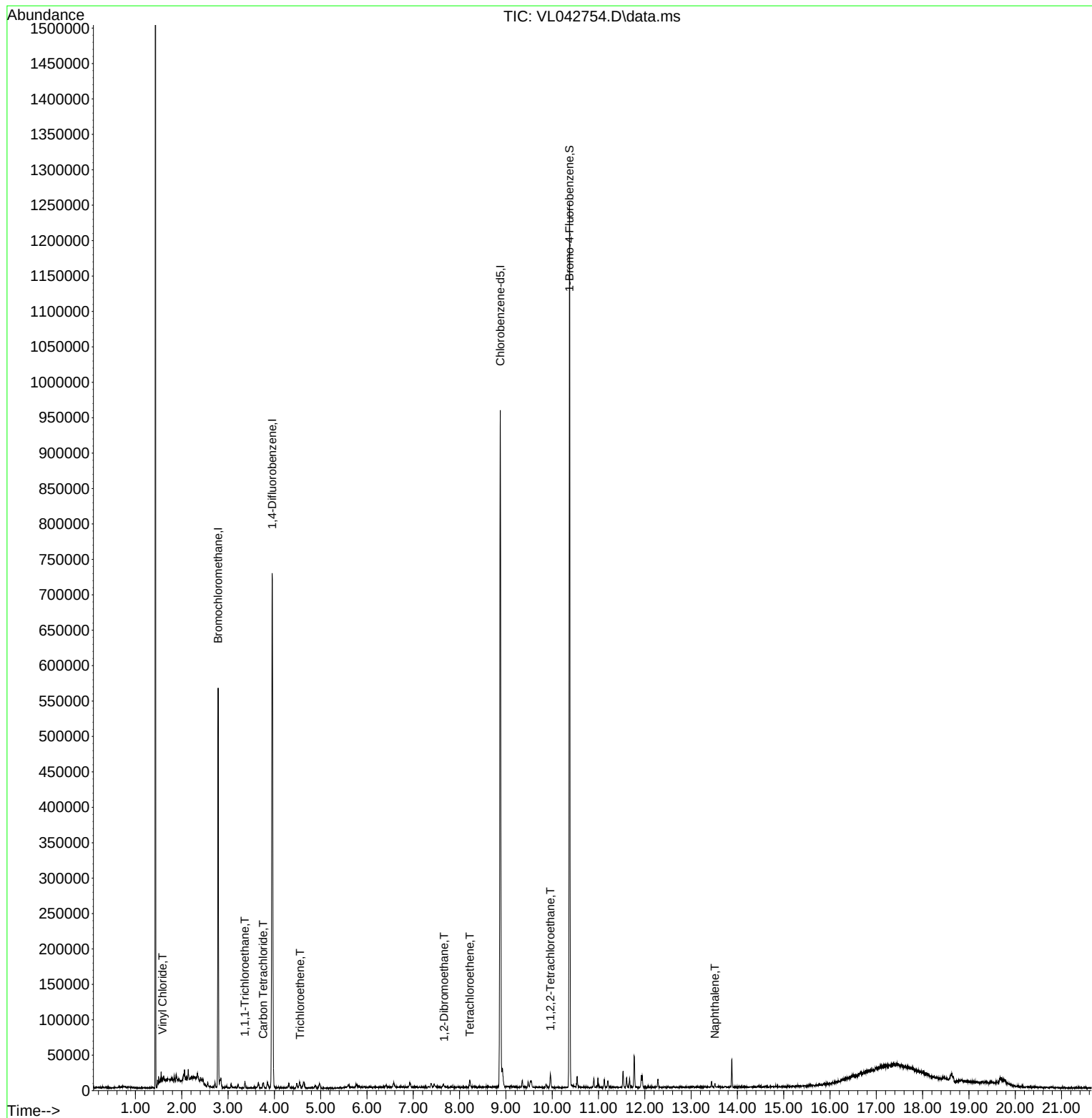
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Data File : VL042754.D
Acq On : 23 Jul 2025 13:00
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

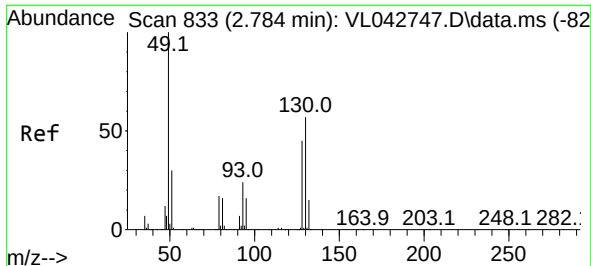
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:01:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration





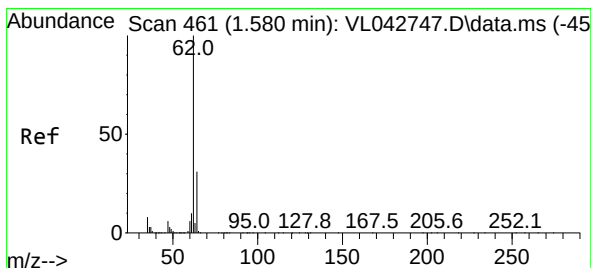
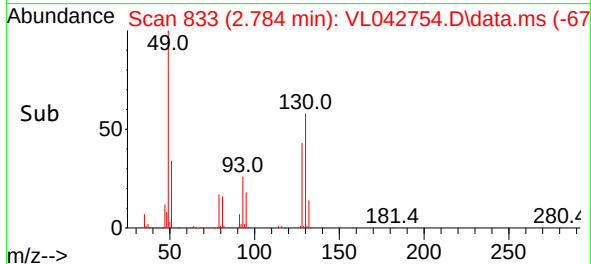
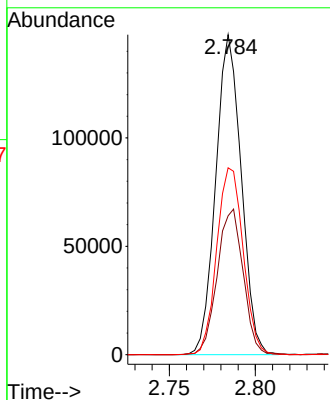
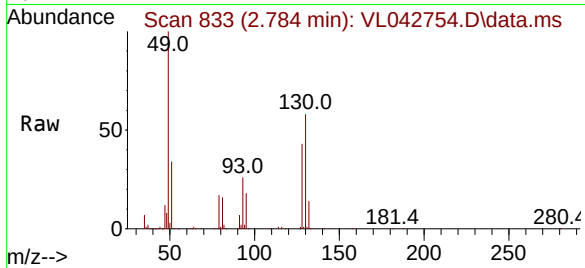
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 49 Resp: 152358
Ion Ratio Lower Upper
49 100
128 46.3 23.6 71.0
130 60.6 30.3 90.8

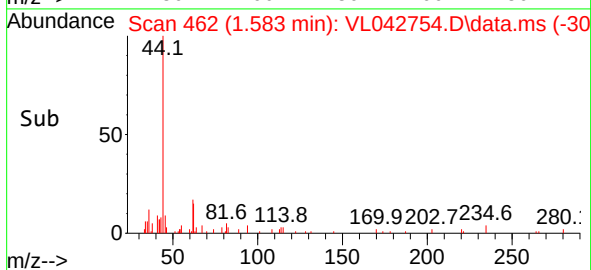
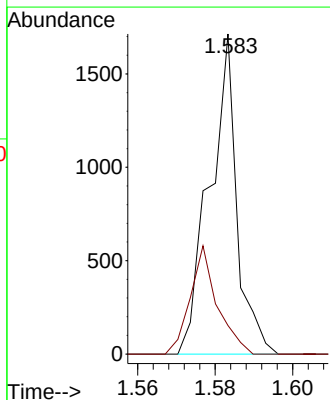
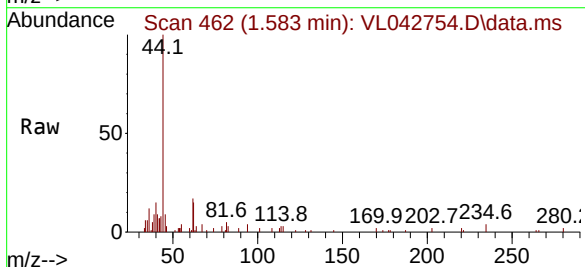
Manual Integrations
APPROVED

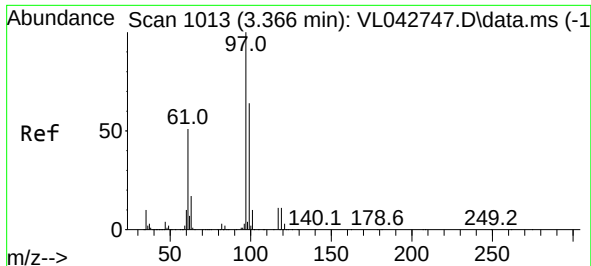
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#5
Vinyl Chloride
Concen: 0.104 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

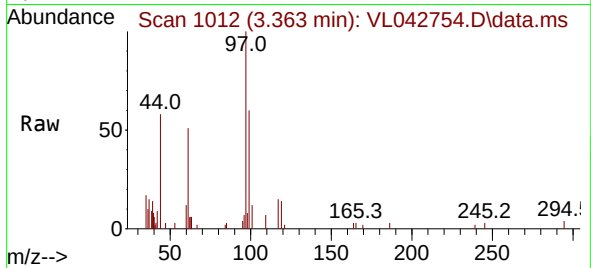
Tgt Ion: 62 Resp: 837
Ion Ratio Lower Upper
62 100
64 8.9 24.5 36.7#





#32
1,1,1-Trichloroethane
Concen: 0.108 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

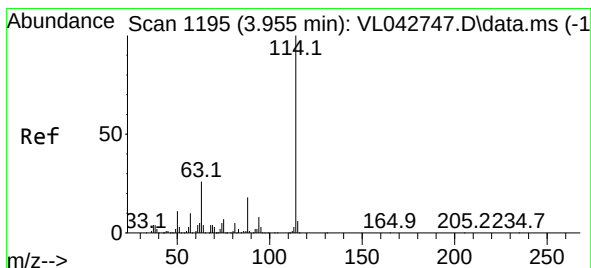
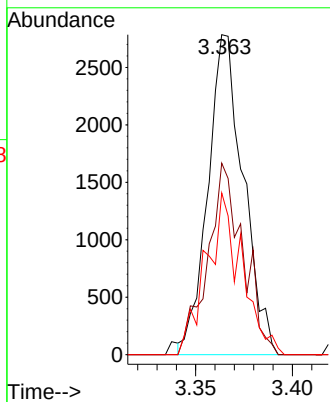
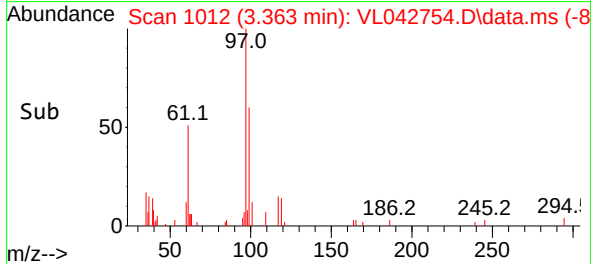
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion: 97 Resp: 3550
Ion Ratio Lower Upper
97 100
99 59.4 51.0 76.6
61 50.4 40.9 61.3

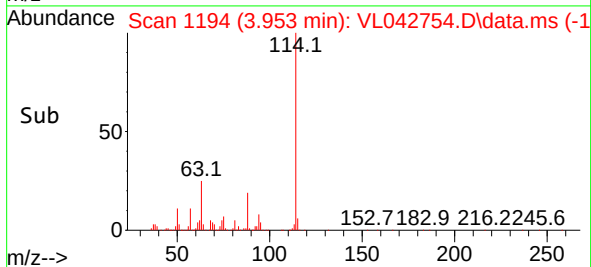
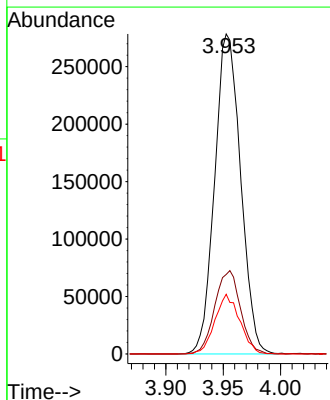
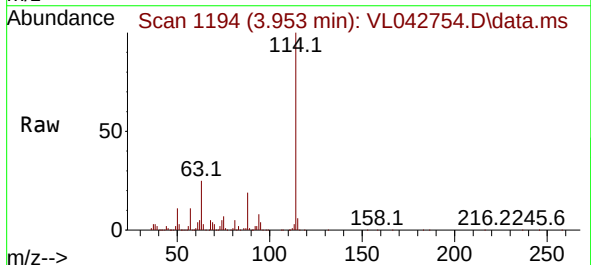
Manual Integrations
APPROVED

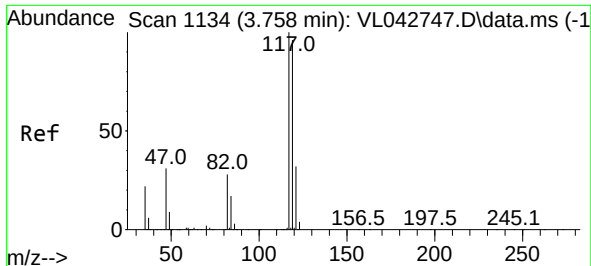
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.953 min Scan# 1194
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

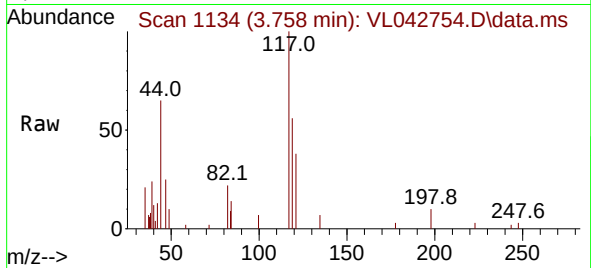
Tgt Ion:114 Resp: 438604
Ion Ratio Lower Upper
114 100
63 25.8 20.5 30.7
88 17.8 14.0 21.0





#35
Carbon Tetrachloride
Concen: 0.093 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

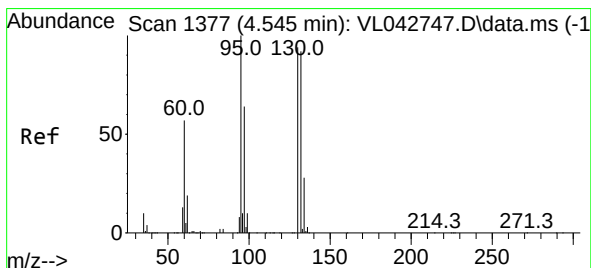
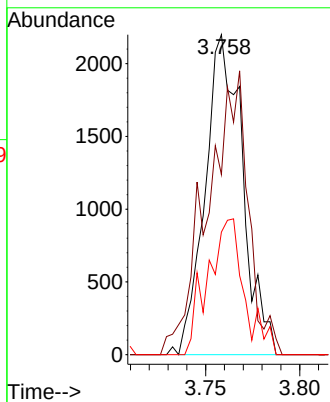
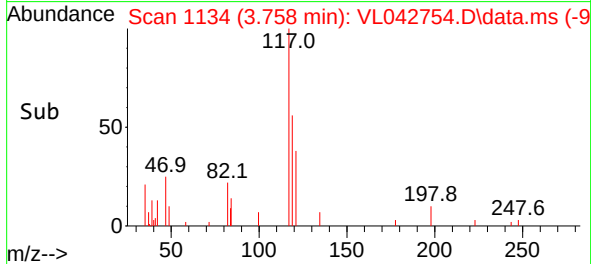
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1



Tgt Ion:117 Resp: 303
Ion Ratio Lower Upper
117 100
119 56.3 77.1 115.7
121 38.3 25.5 38.3

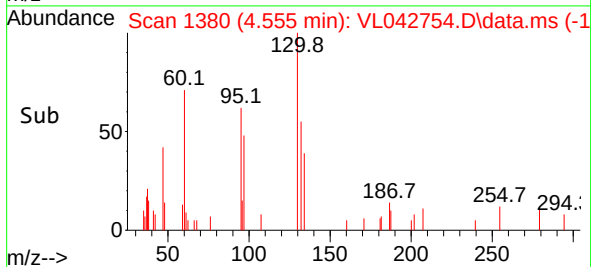
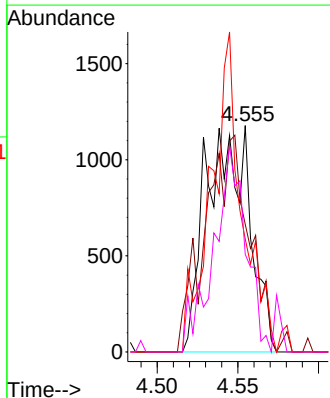
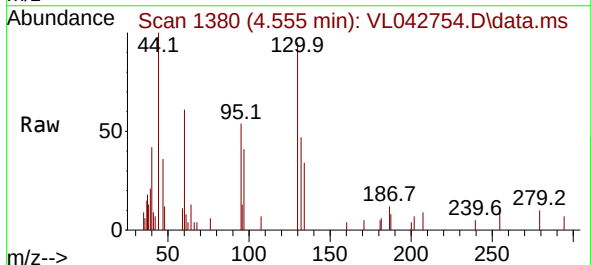
Manual Integrations
APPROVED

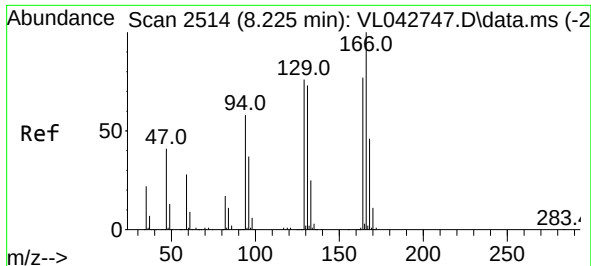
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#38
Trichloroethene
Concen: 0.110 ppbv m
RT: 4.555 min Scan# 1380
Delta R.T. 0.010 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

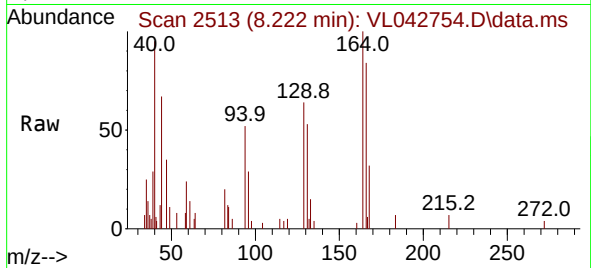
Tgt Ion:130 Resp: 2207
Ion Ratio Lower Upper
130 100
95 56.4 85.4 128.2#
132 49.9 78.2 117.2#
97 43.1 54.8 82.2#





#52
Tetrachloroethene
Concen: 0.107 ppbv m
RT: 8.222 min Scan# 2185
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

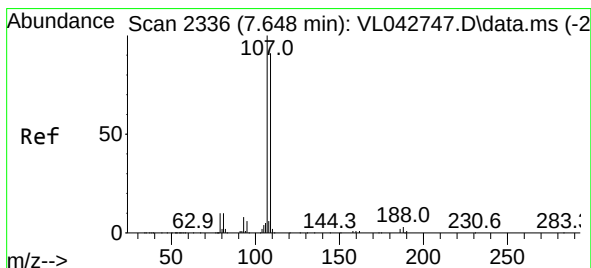
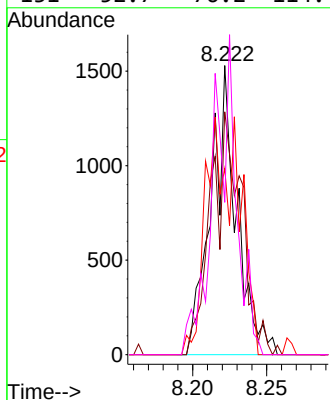
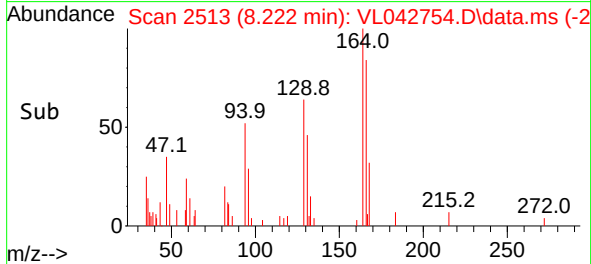
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion:164 Resp: 1852
Ion Ratio Lower Upper
164 100
166 84.0 104.0 156.0
129 64.3 79.2 118.8
131 52.7 76.2 114.4

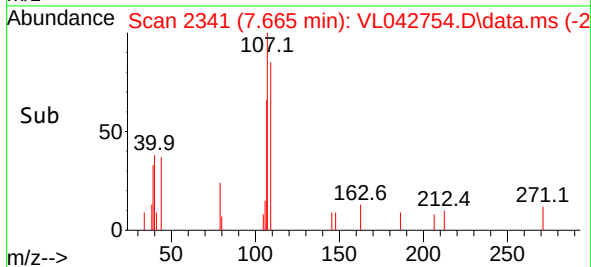
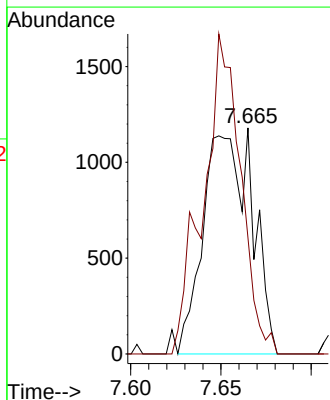
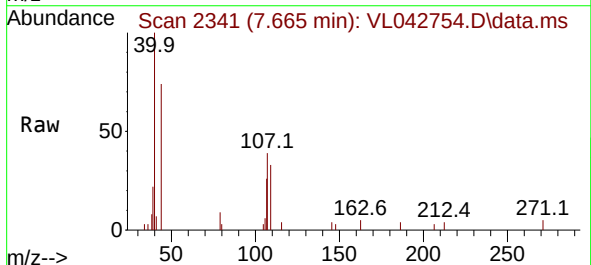
Manual Integrations
APPROVED

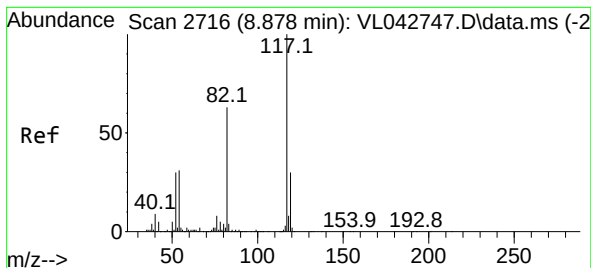
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#54
1,2-Dibromoethane
Concen: 0.094 ppbv m
RT: 7.665 min Scan# 2341
Delta R.T. 0.016 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:107 Resp: 2184
Ion Ratio Lower Upper
107 100
109 85.2 72.7 109.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 2716

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

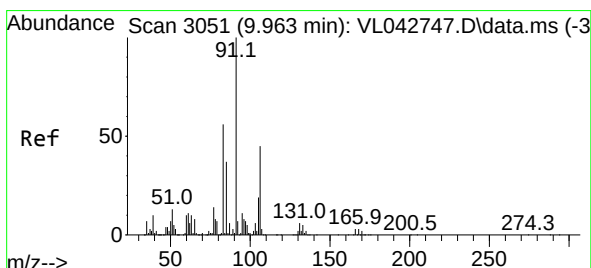
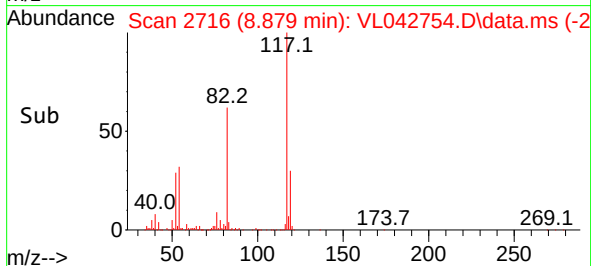
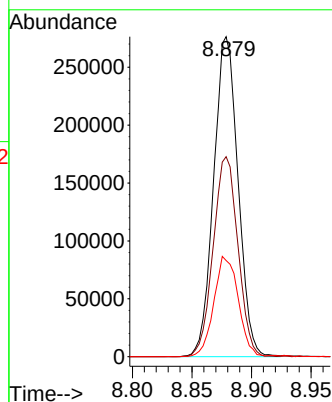
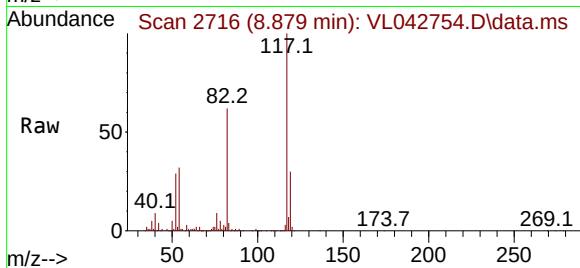
VSTDIC0.1

Tgt Ion:	117	Resp:	39304
Ion Ratio	Lower	Upper	
117	100		
82	63.6	53.3	79.9
119	31.7	25.8	38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#63

1,1,2,2-Tetrachloroethane

Concen: 0.095 ppbv m

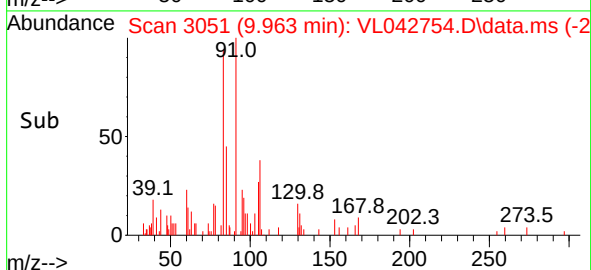
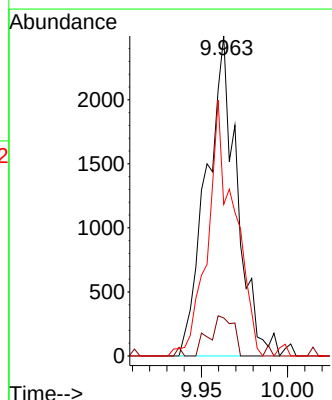
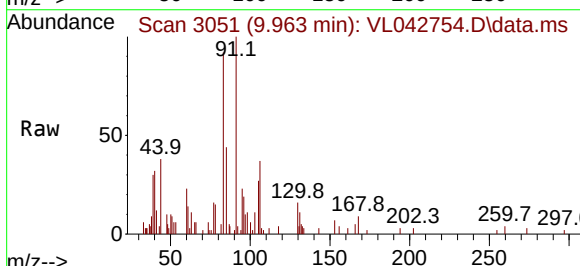
RT: 9.963 min Scan# 3051

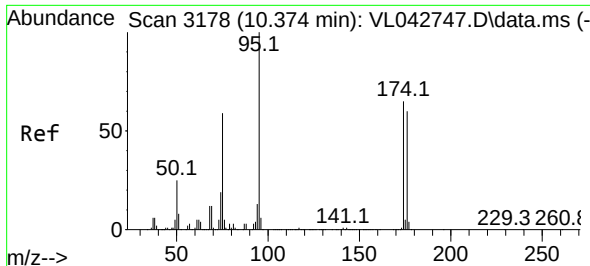
Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

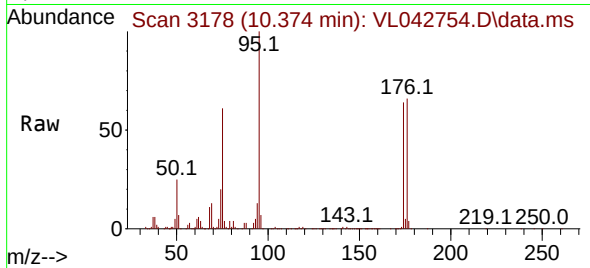
Tgt Ion:	83	Resp:	3084
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.0	15.0
85	70.7	32.6	97.7





#68
1-Bromo-4-Fluorobenzene
Concen: 9.583 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

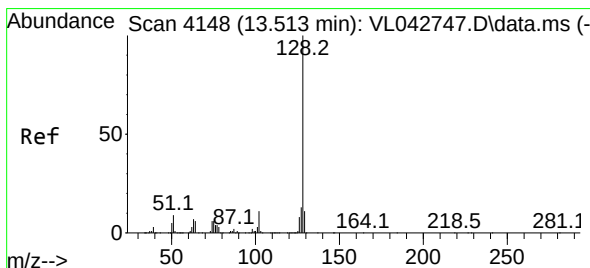
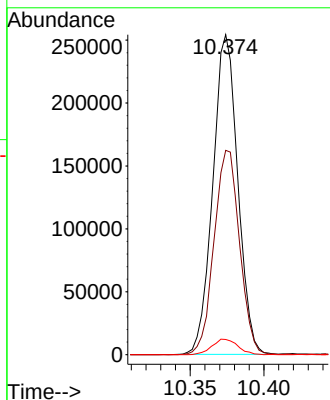
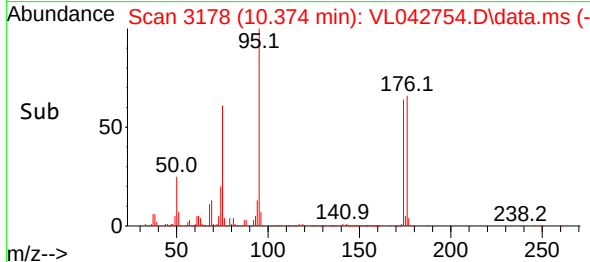
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1



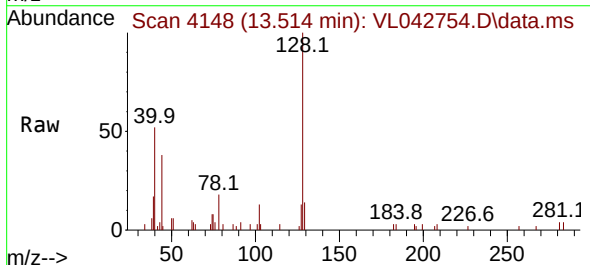
Tgt Ion: 95 Resp: 29828
Ion Ratio Lower Upper
95 100
174 65.8 53.8 80.6
175 5.0 4.0 6.0

Manual Integrations
APPROVED

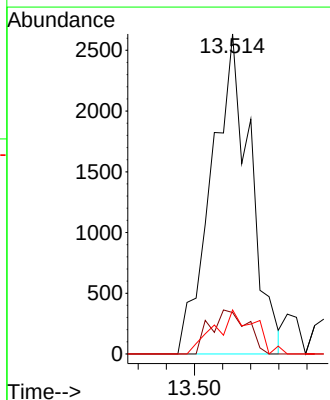
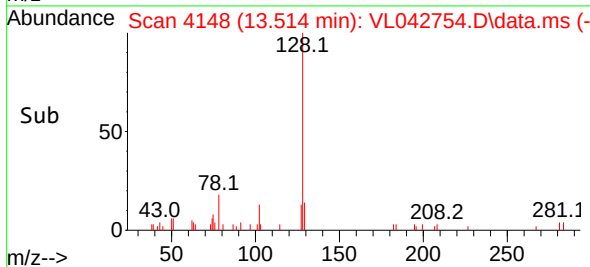
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#79
Naphthalene
Concen: 0.475 ppbv
RT: 13.514 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00



Tgt Ion:128 Resp: 2509
Ion Ratio Lower Upper
128 100
127 12.9 10.5 15.7
129 13.7 8.6 13.0#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:28:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	148064	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	421747	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	380539	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 313324 10.397 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	185425	9.472	ppbv	99
3) Chlorodifluoromethane	1.473	51	242908	9.525	ppbv	99
4) Chloromethane	1.531	50	72221	9.119	ppbv	98
5) Vinyl Chloride	1.577	62	64673	8.265	ppbv	100
6) Bromomethane	1.664	94	27096	8.957	ppbv	99
7) Chloroethane	1.700	64	26125	8.641	ppbv	99
8) Dichlorotetrafluoroethane	1.551	85	148833	9.244	ppbv	100
9) Propene	1.479	41	86343	9.316	ppbv	95
10) Heptane	4.965	43	247934	9.921	ppbv	99
11) Trichlorofluoromethane	1.874	101	179643	8.902	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.136	101	138363	9.023	ppbv	98
13) Ethanol	1.719	45	7690	10.243	ppbv	92
14) Bromoethene	1.777	108	48972	9.020	ppbv	98
15) Acetone	1.832	43	149742	7.324	ppbv	99
16) 1,3-Butadiene	1.606	39	79112	9.072	ppbv	98
17) tert-Butyl alcohol	2.036	59	170096	9.225	ppbv	98
18) 1,1-Dichloroethene	2.030	96	62149	8.970	ppbv	96
19) Isopropyl Alcohol	1.881	45	97844	9.006	ppbv	99
20) Methylene Chloride	2.056	84	53608	8.320	ppbv	98
21) Allyl Chloride	2.091	41	118958	9.441	ppbv	100
22) trans-1,2-Dichloroethene	2.334	96	69482	9.322	ppbv	97
23) Vinyl Acetate	2.457	43	261938	10.568	ppbv	98
24) 1,1-Dichloroethane	2.402	63	137586	8.993	ppbv	99
25) Ethyl Acetate	2.829	43	444208	9.816	ppbv	99
26) Hexane	2.819	57	190523	9.597	ppbv	98
27) Carbon Disulfide	2.146	76	164040	9.652	ppbv	99
28) Methyl tert-Butyl Ether	2.434	73	85480	9.114	ppbv	98
29) Chloroform	2.842	83	295808	9.643	ppbv	99
30) Cyclohexane	3.849	84	164554	9.773	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	199970	9.802	ppbv	99
32) 1,1,1-Trichloroethane	3.360	97	293074	9.172	ppbv	100
34) 2-Butanone	2.551	43	294837	9.869	ppbv	99
35) Carbon Tetrachloride	3.755	117	310129	9.900	ppbv	96
36) Benzene	3.648	78	393085	9.834	ppbv	99
37) 1,2-Dichloroethane	3.211	62	238249	9.895	ppbv	100
38) Trichloroethene	4.538	130	178600	9.301	ppbv	97
39) 1,2-Dichloropropane	4.305	63	141316	9.578	ppbv	95
40) 1,4-Dioxane	4.570	88	65204	9.481	ppbv #	94
41) Tetrahydrofuran	3.046	42	158159	10.404	ppbv	99
42) Bromodichloromethane	4.477	83	321549	10.254	ppbv	98
43) Methyl Methacrylate	4.865	69	152551	10.738	ppbv	97
44) 2,2,4-Trimethylpentane	4.629	57	649720	9.973	ppbv	99
45) t-1,3-Dichloropropene	6.402	75	169563	10.643	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:28:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

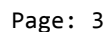
Response via : Initial Calibration

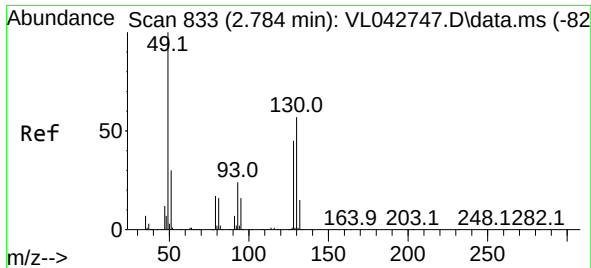
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	215596	10.679	ppbv	97
47) 1,1,2-Trichloroethane	6.564	97	154882m	9.848	ppbv	
48) Dibromochloromethane	7.380	129	261174	10.460	ppbv	98
49) Bromoform	9.477	173	233573	10.729	ppbv	99
50) 4-Methyl-2-Pentanone	5.736	43	396506	10.303	ppbv	100
51) 2-Hexanone	7.428	43	320740	11.029	ppbv #	100
52) Tetrachloroethene	8.218	164	151810	9.163	ppbv	98
53) Toluene	6.927	91	441829	10.294	ppbv	100
54) 1,2-Dibromoethane	7.645	107	229563	10.331	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.920	131	193089	9.759	ppbv	99
57) Chlorobenzene	8.914	112	354412	9.623	ppbv	96
58) Ethyl Benzene	9.348	91	631247	10.504	ppbv	99
59) m/p-Xylene	9.545	91	1016249m	21.160	ppbv	
60) o-Xylene	9.959	91	503849	10.499	ppbv	99
61) Styrene	9.866	104	225799	11.185	ppbv	99
62) Isopropylbenzene	10.536	105	736044	10.398	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.956	83	287775	9.340	ppbv	99
64) n-propylbenzene	10.982	120	193034	10.460	ppbv	98
65) tert-Butylbenzene	11.526	119	660966	10.512	ppbv	99
66) Benzyl Chloride	11.610	91	60055	11.634	ppbv	99
67) sec-Butylbenzene	11.762	105	914046	10.221	ppbv	100
69) p-Isopropyltoluene	11.921	119	778601	10.677	ppbv	99
70) n-Butylbenzene	12.277	91	788734	11.197	ppbv	99
71) 2-Chlorotoluene	10.895	91	563193	10.376	ppbv	99
72) 4-Ethyltoluene	11.121	105	617355	10.772	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	516735	10.951	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	567186	11.017	ppbv	98
75) 1,3-Dichlorobenzene	11.604	146	366855	10.165	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	364937	10.333	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	348999	9.839	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	291861	9.091	ppbv	99
79) Naphthalene	13.510	128	578563	10.342	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	277798	9.951	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	319897	10.181	ppbv	100

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

Manual Integrations APPROVED

Quant Time: Jul 24 05:28:48 2025
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





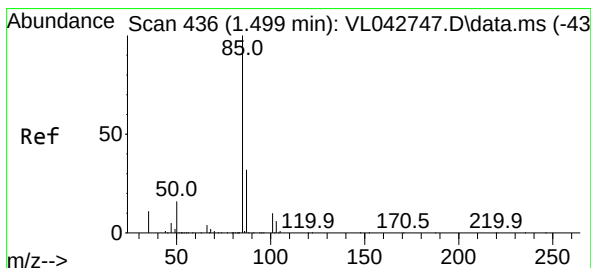
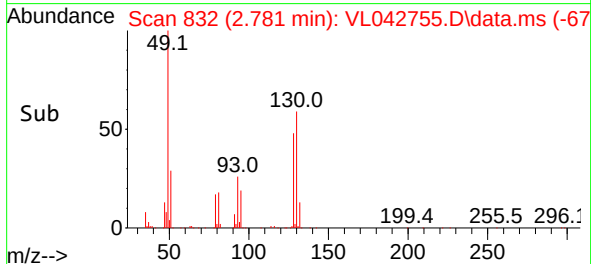
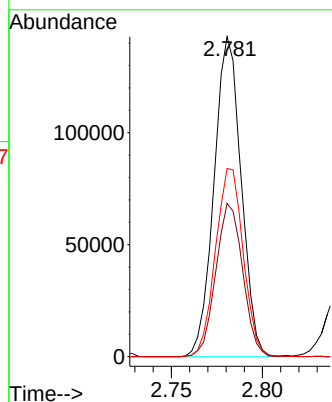
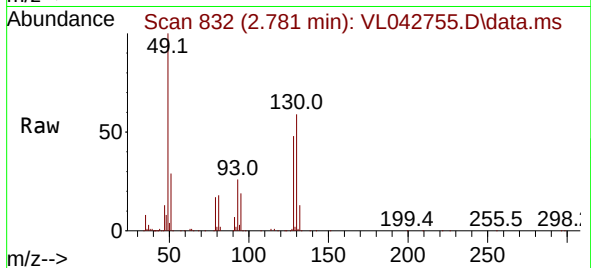
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 49 Resp: 148064
Ion Ratio Lower Upper
49 100
128 47.4 23.6 71.0
130 60.2 30.3 90.8

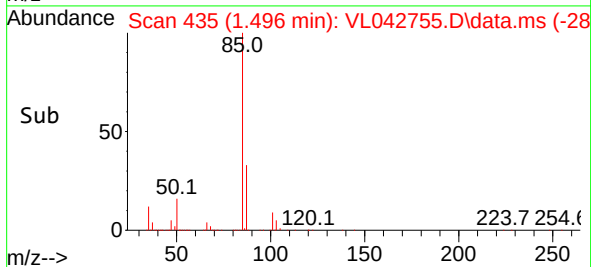
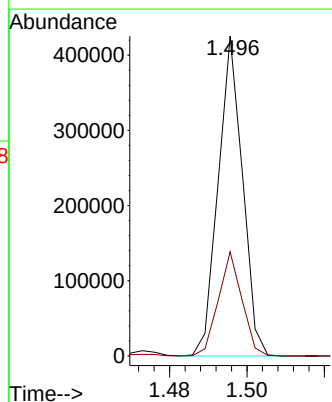
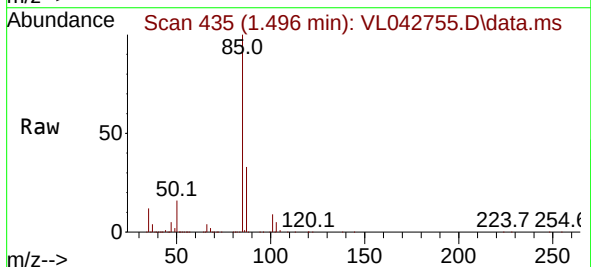
Manual Integrations
APPROVED

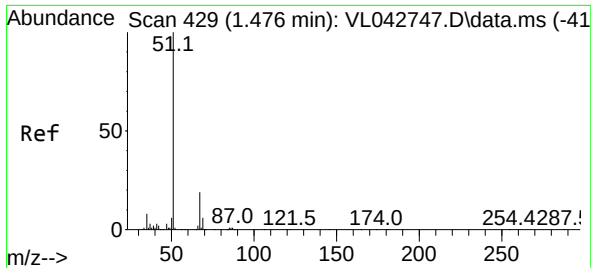
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#2
Dichlorodifluoromethane
Concen: 9.472 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 85 Resp: 185425
Ion Ratio Lower Upper
85 100
87 32.6 25.4 38.2





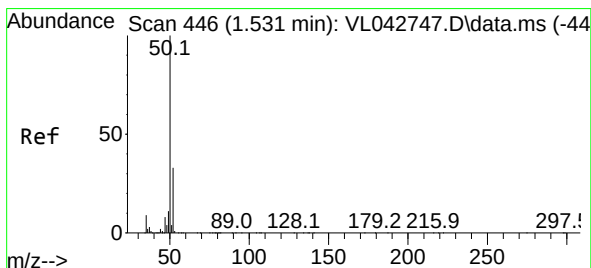
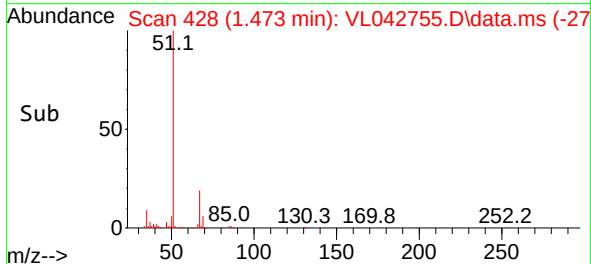
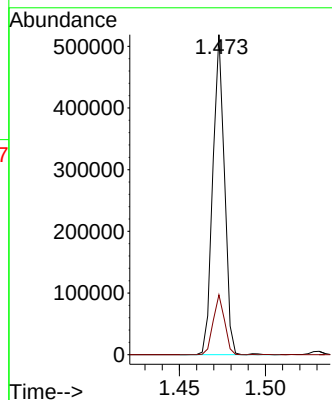
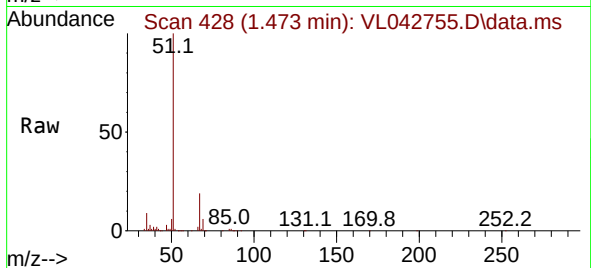
#3
Chlorodifluoromethane
Concen: 9.525 ppbv
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument : MSVOA_L
ClientSampleId : ICVVL072325

Tgt Ion: 51 Resp: 242908
Ion Ratio Lower Upper
51 100
67 18.4 15.0 22.6

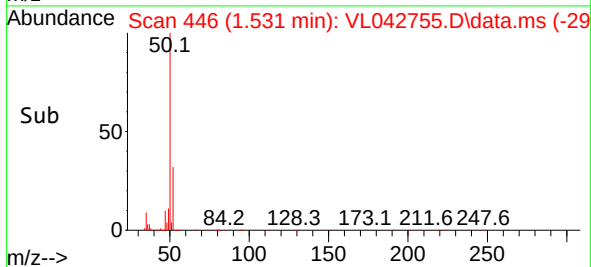
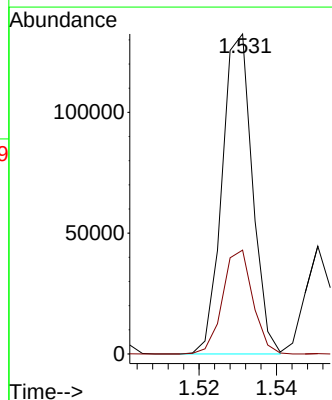
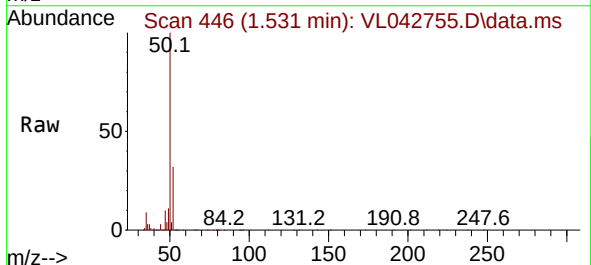
Manual Integrations
APPROVED

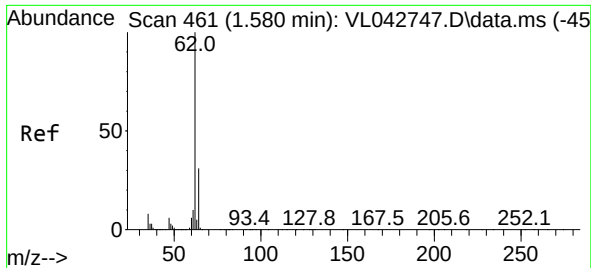
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#4
Chloromethane
Concen: 9.119 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 50 Resp: 72221
Ion Ratio Lower Upper
50 100
52 32.4 26.6 40.0





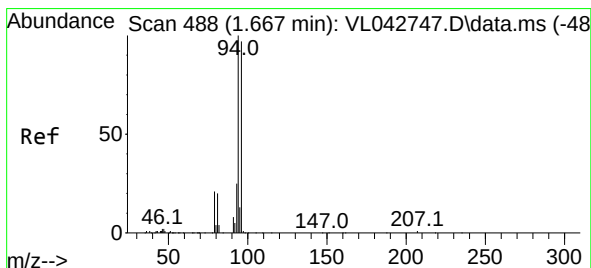
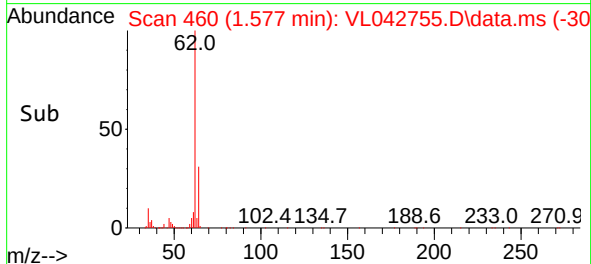
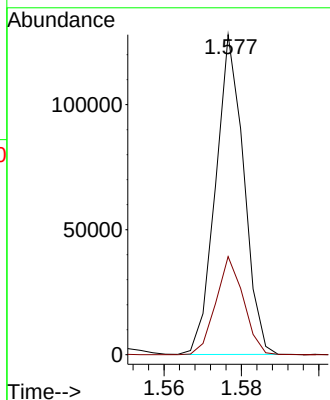
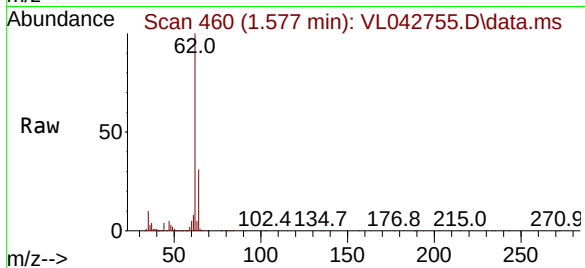
#5
 Vinyl Chloride
 Concen: 8.265 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Tgt Ion: 62 Resp: 6467
 Ion Ratio Lower Upper
 62 100
 64 30.7 24.5 36.7

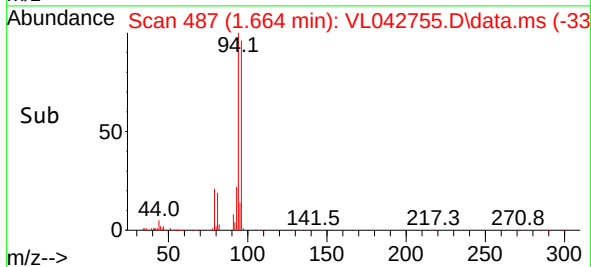
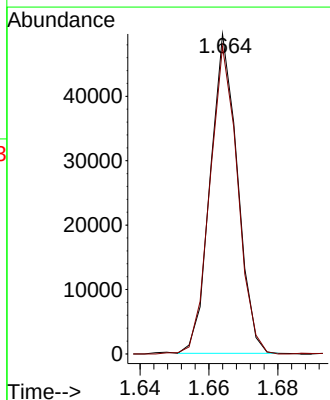
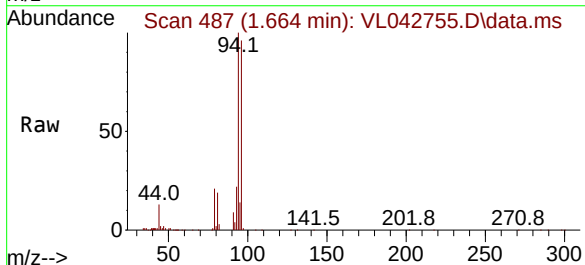
Manual Integrations
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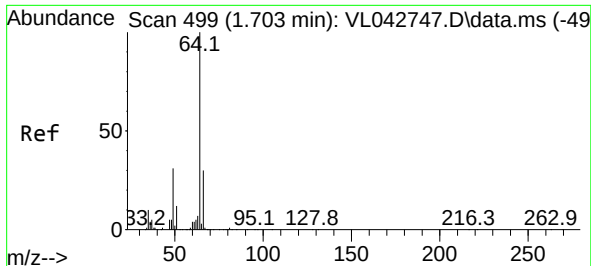
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#6
 Bromomethane
 Concen: 8.957 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion: 94 Resp: 27096
 Ion Ratio Lower Upper
 94 100
 96 96.3 77.6 116.4





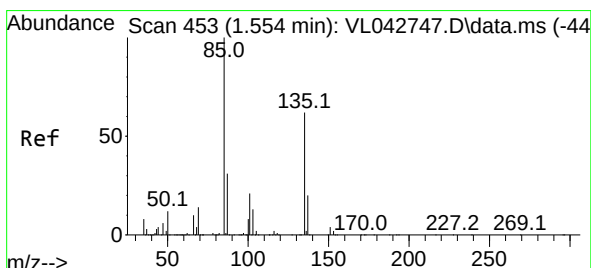
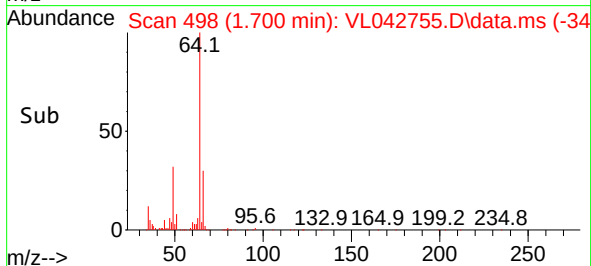
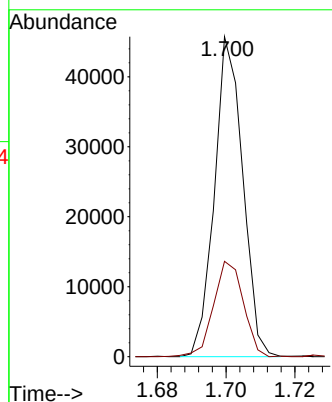
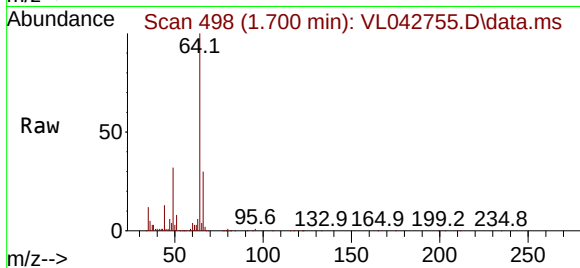
#7
Chloroethane
Concen: 8.641 ppbv
RT: 1.700 min Scan# 499
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 64 Resp: 26125
Ion Ratio Lower Upper
64 100
66 29.8 24.1 36.1

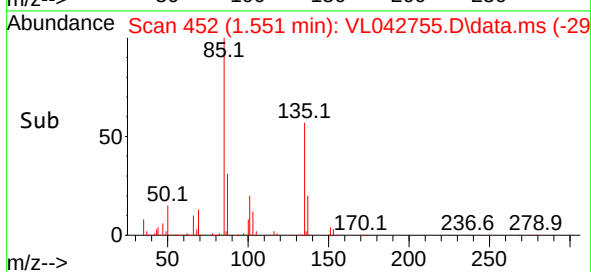
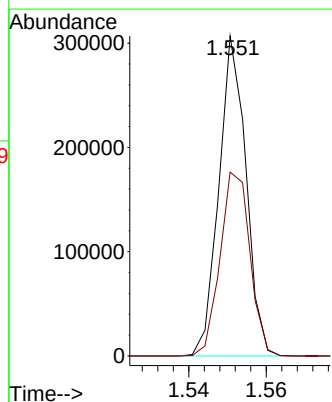
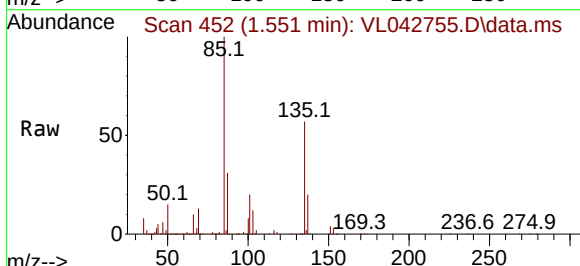
Manual Integrations
APPROVED

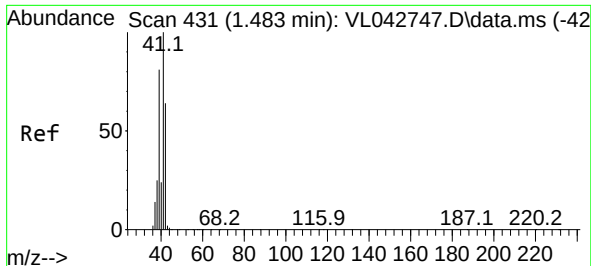
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#8
Dichlorotetrafluoroethane
Concen: 9.244 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 85 Resp: 148833
Ion Ratio Lower Upper
85 100
135 63.6 50.6 76.0





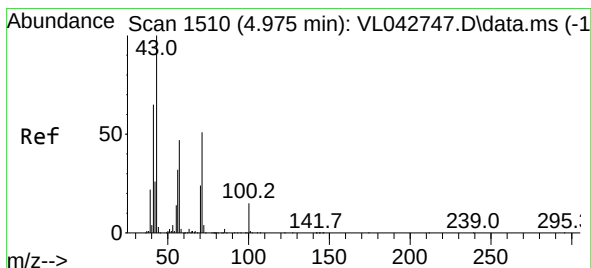
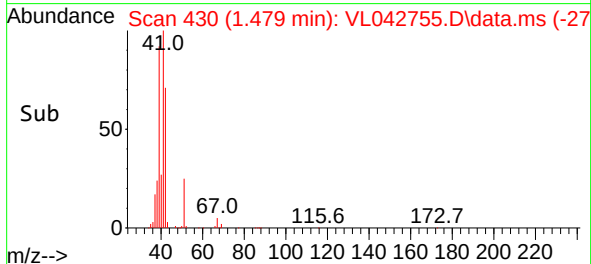
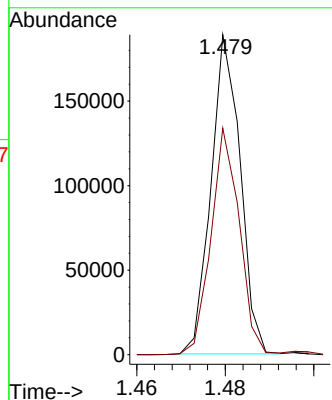
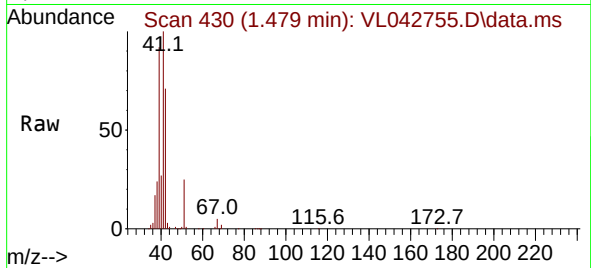
#9
Propene
Concen: 9.316 ppbv
RT: 1.479 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 41 Resp: 8634
Ion Ratio Lower Upper
41 100
42 70.7 53.2 79.8

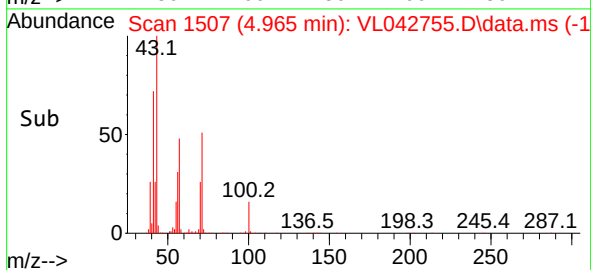
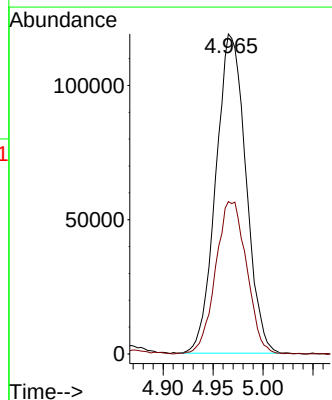
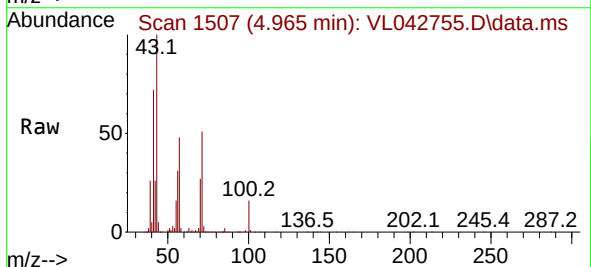
Manual Integrations
APPROVED

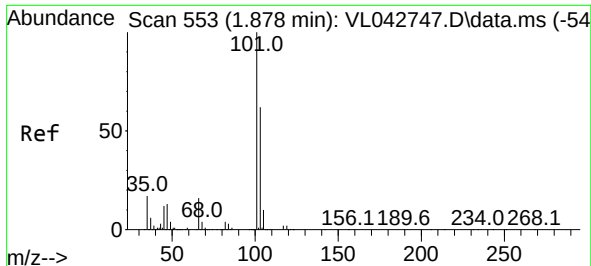
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#10
Heptane
Concen: 9.921 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

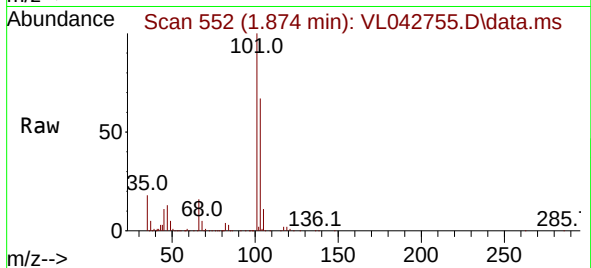
Tgt Ion: 43 Resp: 247934
Ion Ratio Lower Upper
43 100
57 49.5 39.9 59.9





#11
 Trichlorofluoromethane
 Concen: 8.902 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

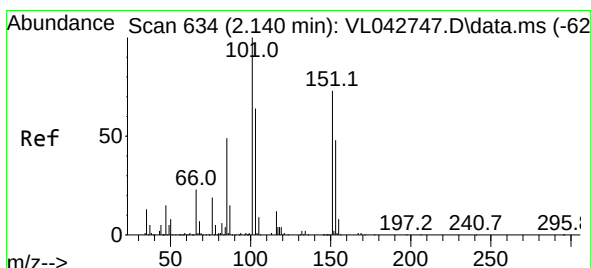
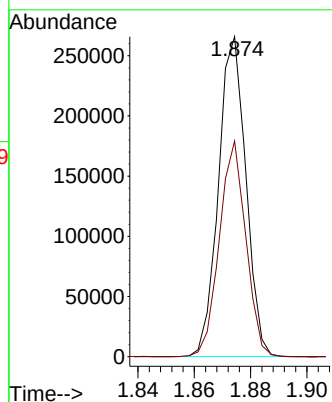
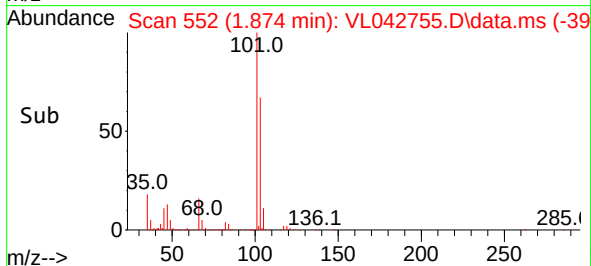
Instrument : MSVOA_L
 ClientSampleId : ICVVL072325



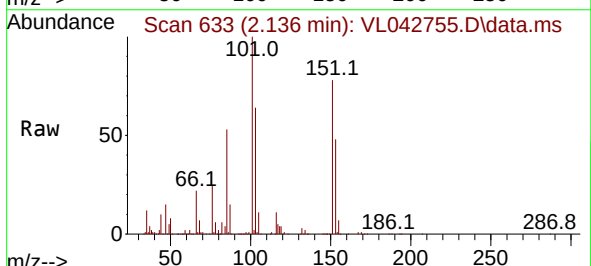
Tgt Ion:101 Resp: 17964
 Ion Ratio Lower Upper
 101 100
 103 67.4 49.6 74.4

Manual Integrations
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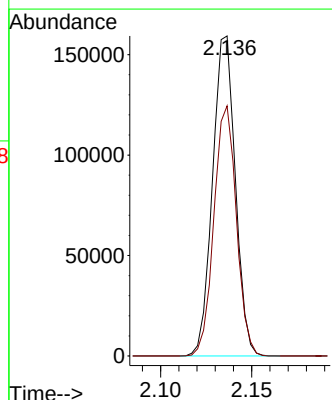
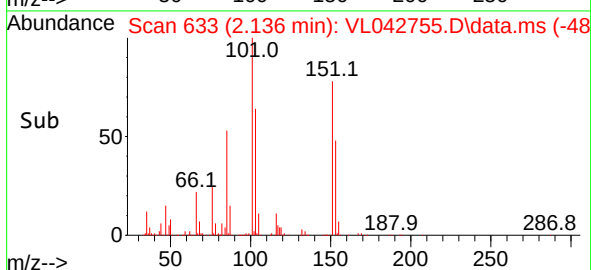
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

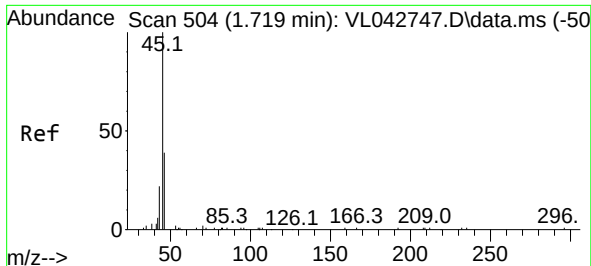


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.023 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33



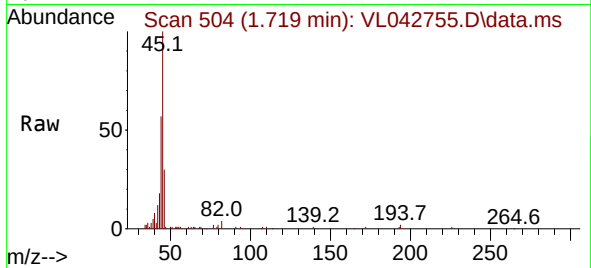
Tgt Ion:101 Resp: 138363
 Ion Ratio Lower Upper
 101 100
 151 76.9 60.5 90.7





#13
Ethanol
Concen: 10.243 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

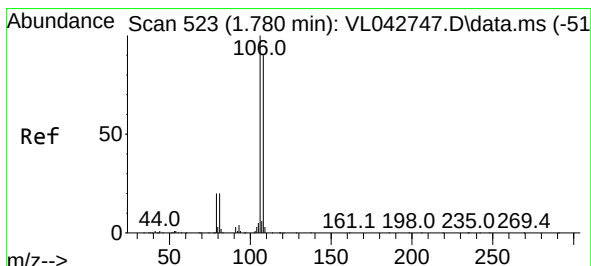
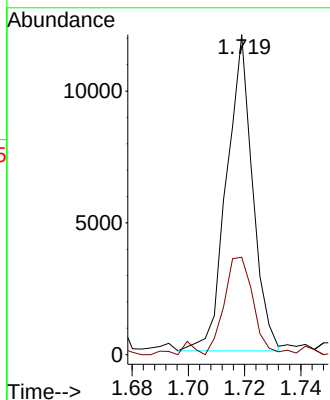
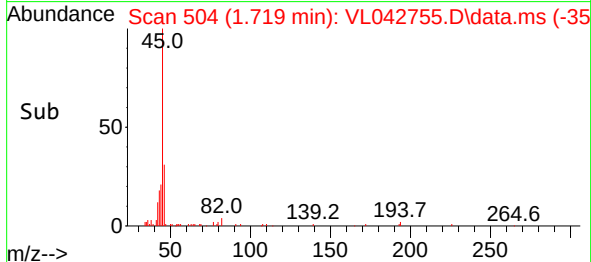
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



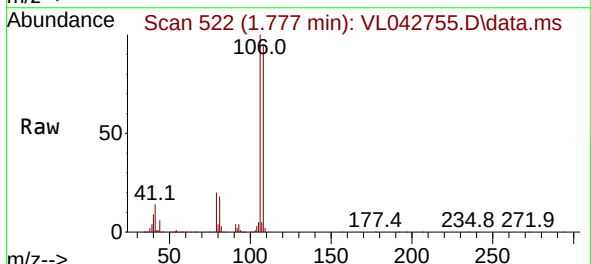
Tgt Ion: 45 Resp: 7690
Ion Ratio Lower Upper
45 100
46 39.7 17.8 71.4

Manual Integrations
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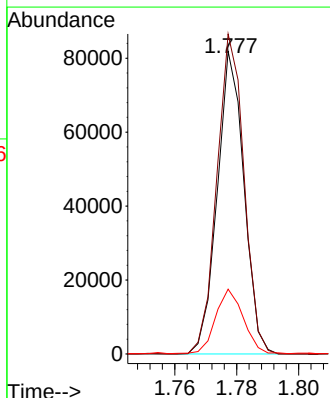
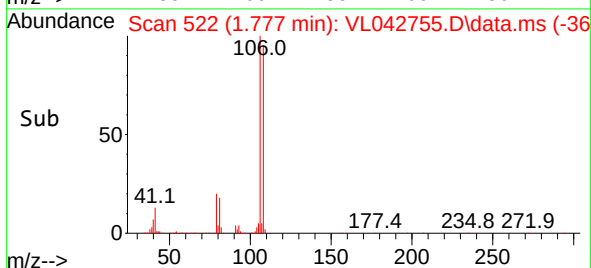
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

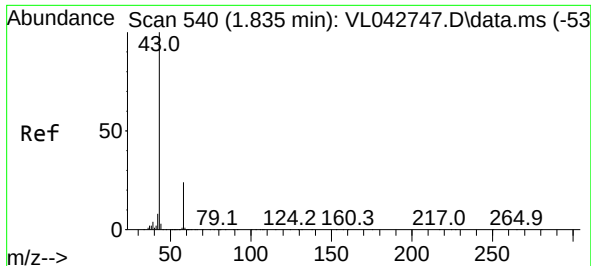


#14
Bromoethene
Concen: 9.020 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



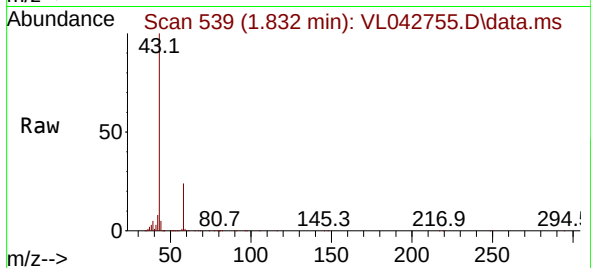
Tgt Ion:108 Resp: 48972
Ion Ratio Lower Upper
108 100
106 107.5 84.7 127.1
79 23.5 17.4 26.2





#15
Acetone
Concen: 7.324 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

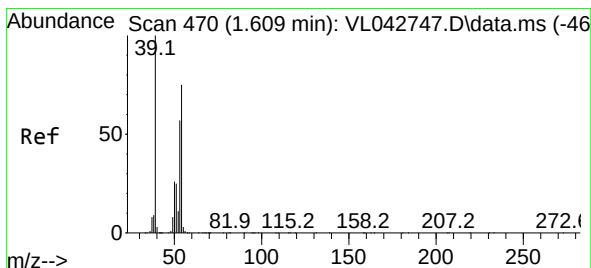
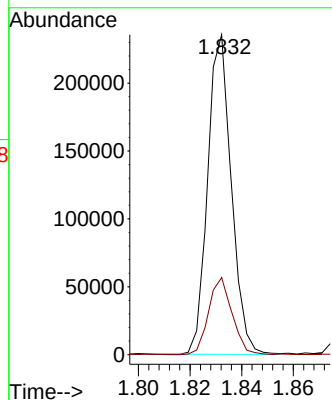
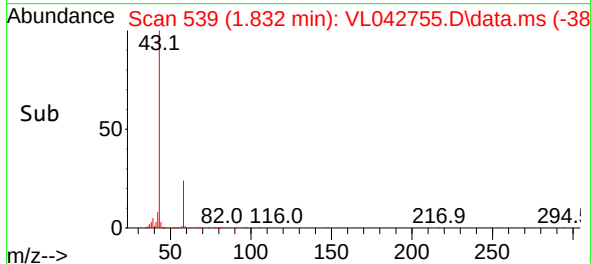
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ClientSampleId :
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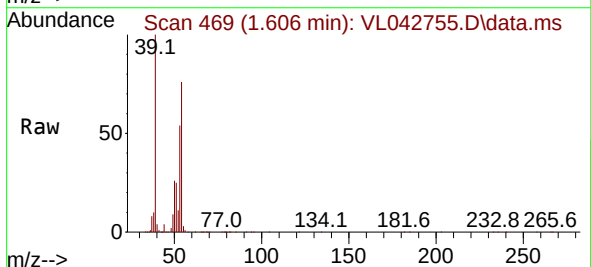
Tgt Ion: 43 Resp: 14974
Ion Ratio Lower Upper
43 100
58 24.2 19.8 29.8

Manual Integrations
APPROVED

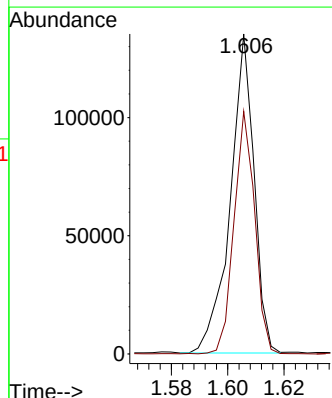
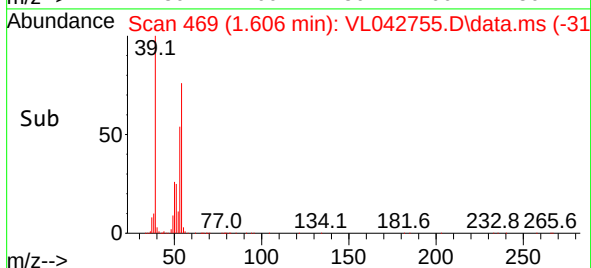
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

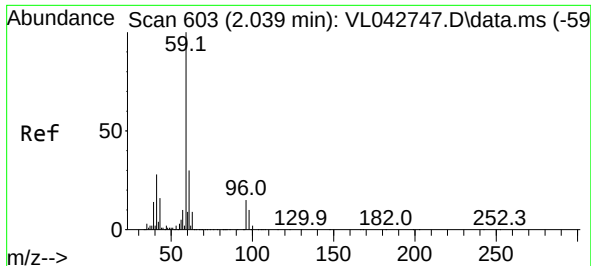


#16
1,3-Butadiene
Concen: 9.072 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



Tgt Ion: 39 Resp: 79112
Ion Ratio Lower Upper
39 100
54 66.6 54.5 81.7





#17

tert-Butyl alcohol

Concen: 9.225 ppbv

RT: 2.036 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

Tgt Ion: 59 Resp: 170090

Ion Ratio Lower Upper

59 100

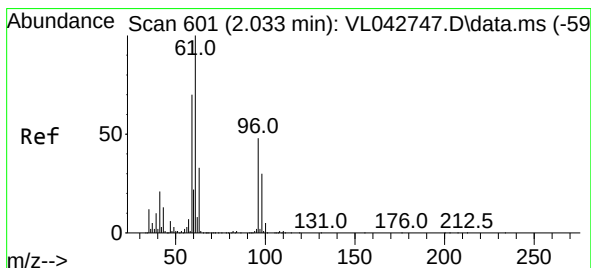
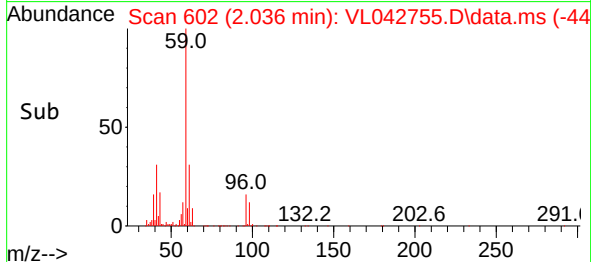
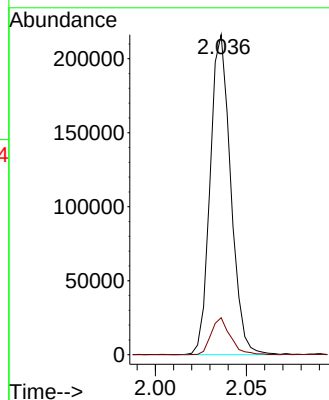
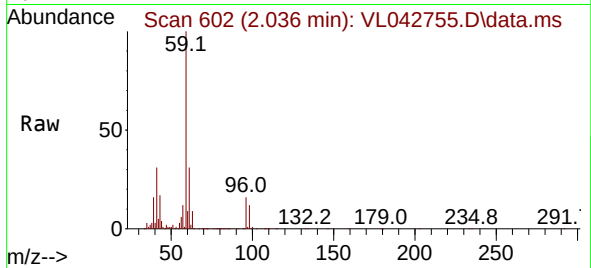
57 11.0 8.3 12.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#18

1,1-Dichloroethene

Concen: 8.970 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

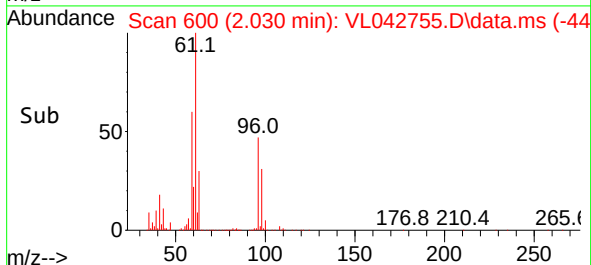
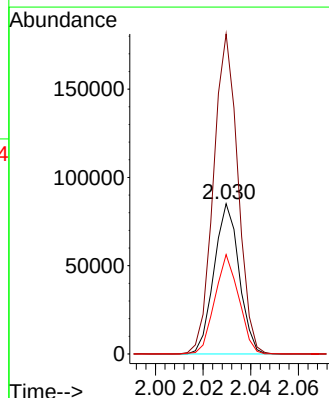
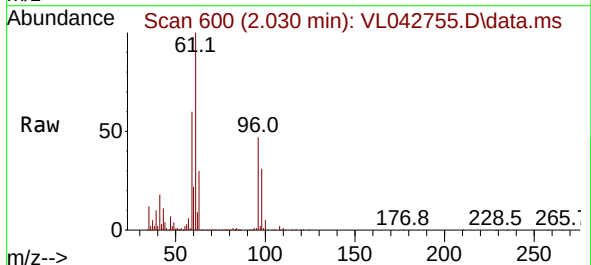
Tgt Ion: 96 Resp: 62149

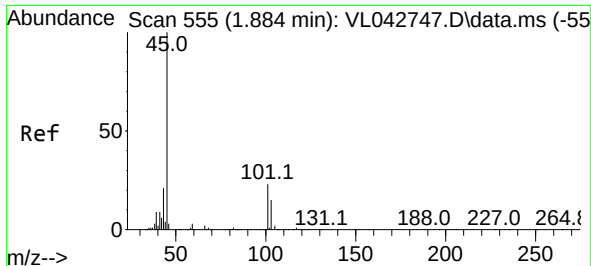
Ion Ratio Lower Upper

96 100

61 212.9 165.8 248.6

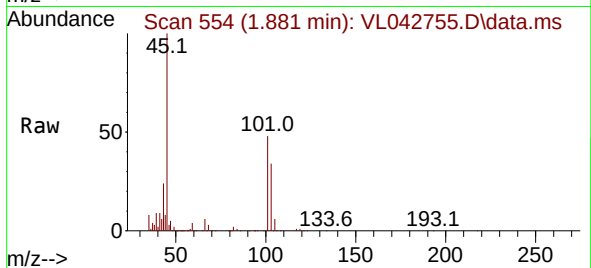
98 66.1 49.9 74.9





#19
Isopropyl Alcohol
Concen: 9.006 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

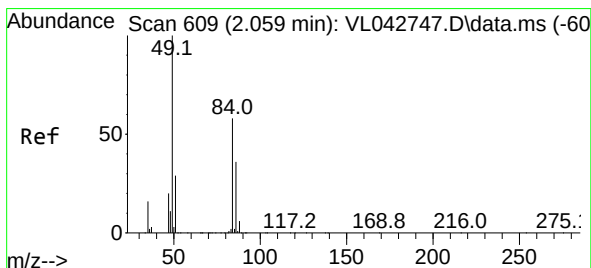
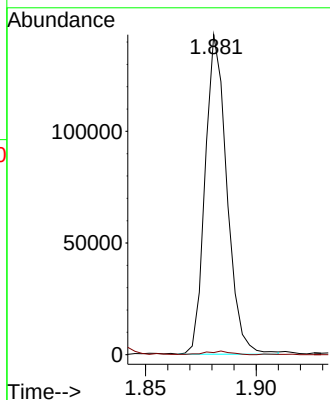
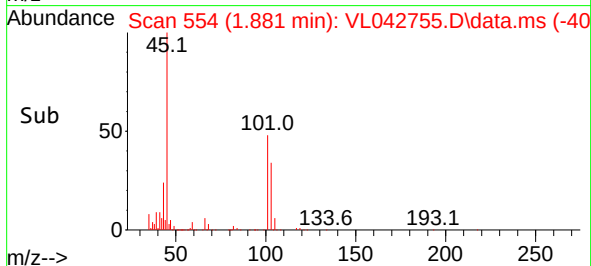
Instrument : MSVOA_L
ClientSampleId : ICVVL072325



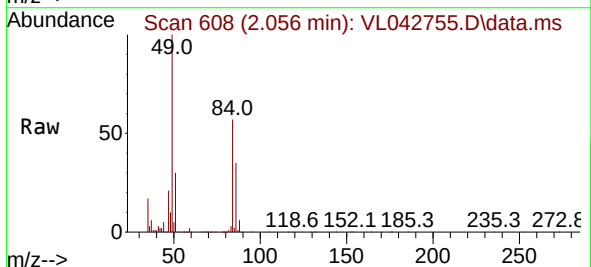
Tgt Ion: 45 Resp: 97844
Ion Ratio Lower Upper
45 100
58 37.1 30.0 45.0

Manual Integrations
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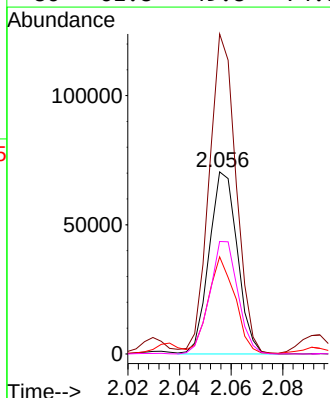
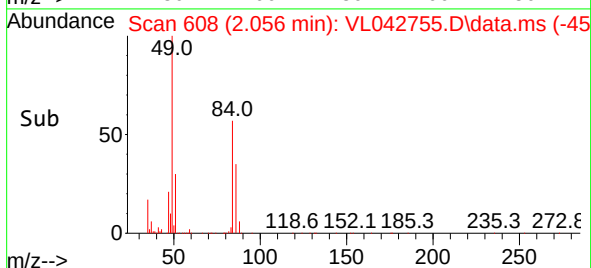
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

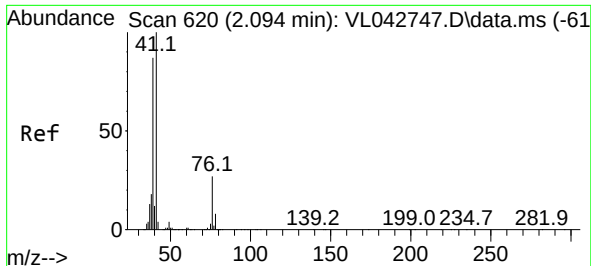


#20
Methylene Chloride
Concen: 8.320 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



Tgt Ion: 84 Resp: 53608
Ion Ratio Lower Upper
84 100
49 175.3 138.6 208.0
51 53.0 40.6 61.0
86 61.8 49.8 74.8





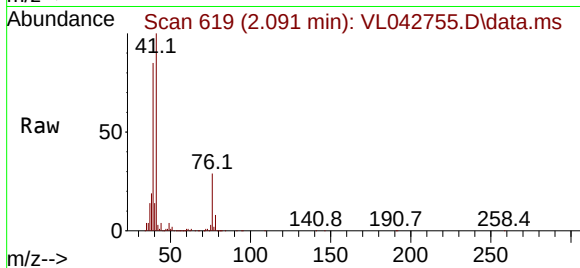
#21
 Allyl Chloride
 Concen: 9.441 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

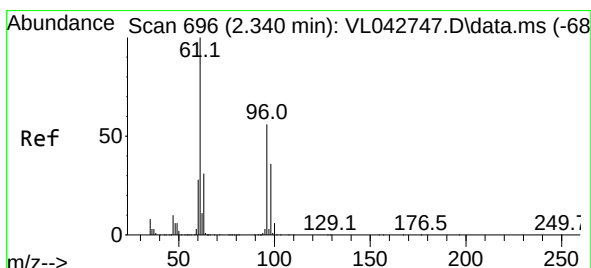
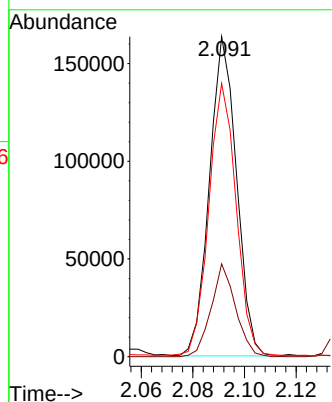
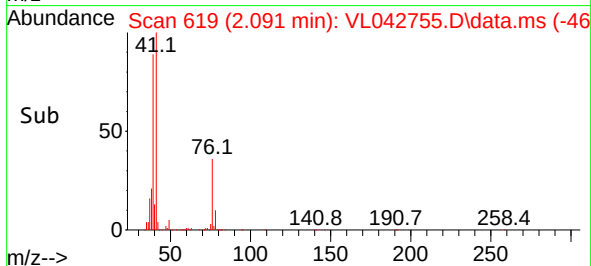


Tgt Ion: 41 Resp: 118958
 Ion Ratio Lower Upper
 41 100
 76 26.3 21.1 31.7
 39 85.9 68.3 102.5

Manual Integrations

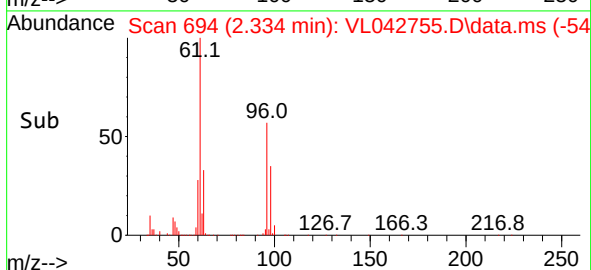
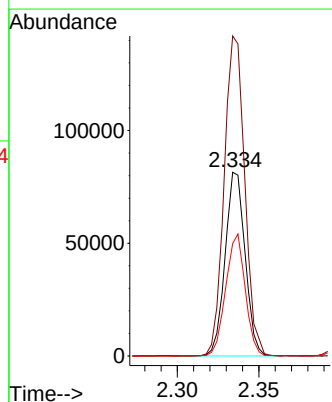
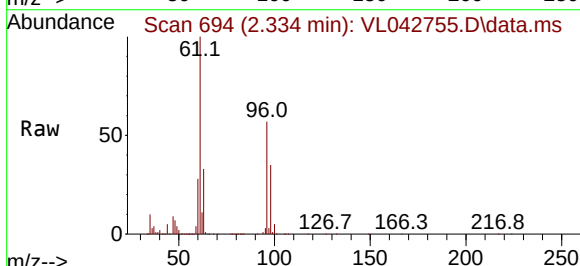
APPROVED

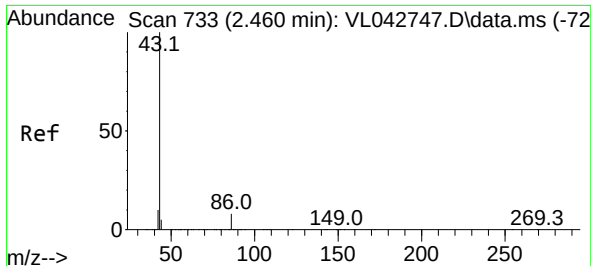
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.322 ppbv
 RT: 2.334 min Scan# 694
 Delta R.T. -0.006 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

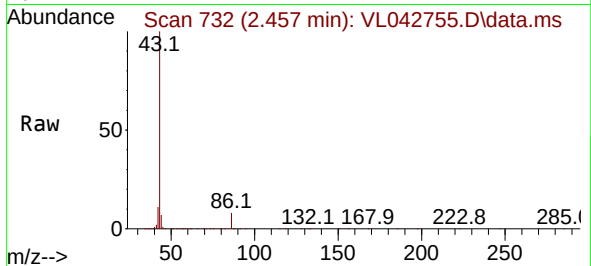
Tgt Ion: 96 Resp: 69482
 Ion Ratio Lower Upper
 96 100
 61 174.3 142.3 213.5
 98 61.3 50.6 76.0





#23
 Vinyl Acetate
 Concen: 10.568 ppbv
 RT: 2.457 min Scan# 715
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

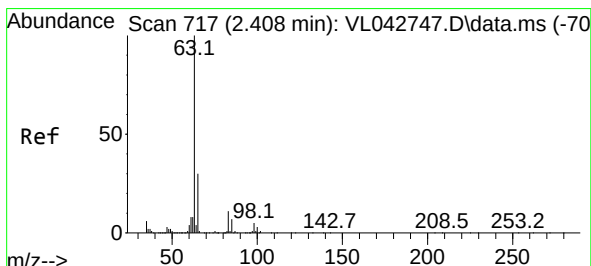
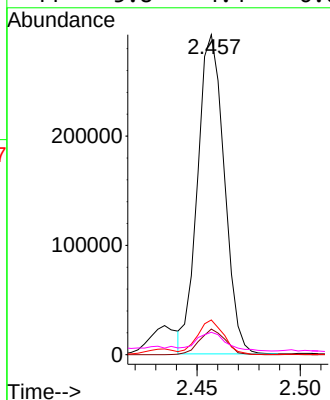
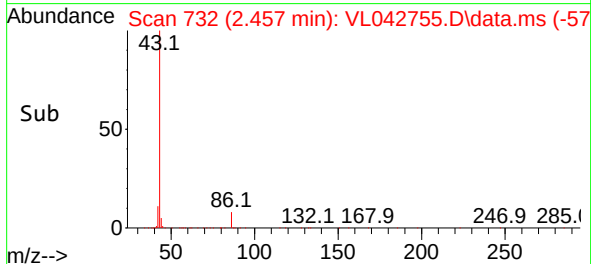
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325



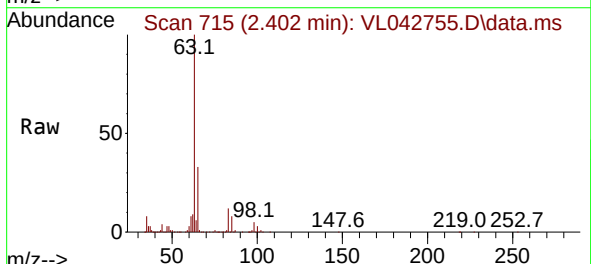
Tgt Ion: 43 Resp: 261938
 Ion Ratio Lower Upper
 43 100
 86 8.0 6.1 9.1
 42 10.7 7.8 11.8
 44 5.8 4.4 6.6

Manual Integrations
 APPROVED

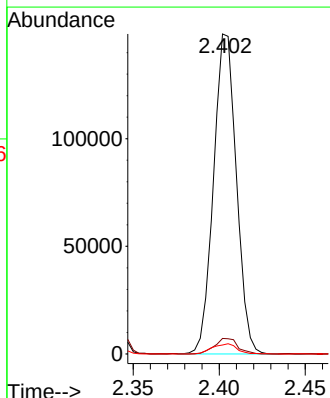
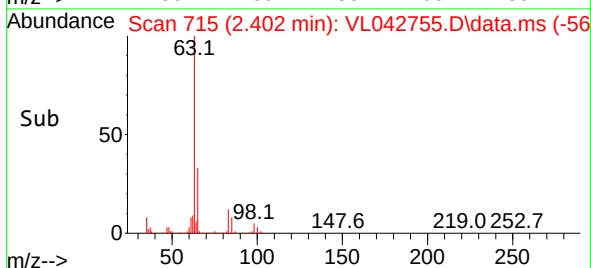
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

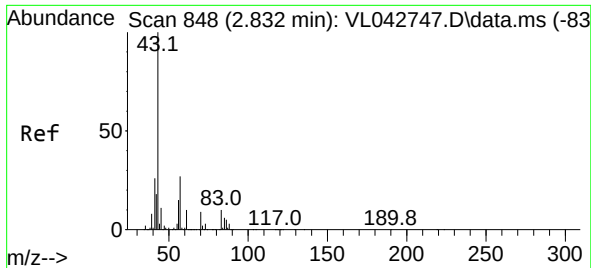


#24
 1,1-Dichloroethane
 Concen: 8.993 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. -0.006 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33



Tgt Ion: 63 Resp: 137586
 Ion Ratio Lower Upper
 63 100
 98 4.9 2.5 7.4
 100 2.8 1.6 4.8





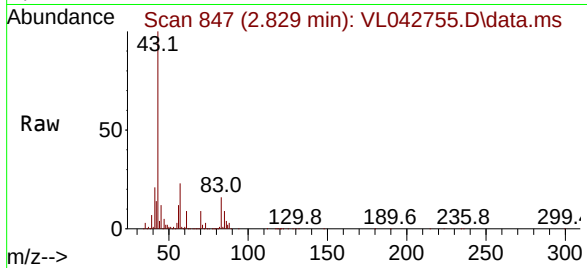
#25
Ethyl Acetate
Concen: 9.816 ppbv
RT: 2.829 min Scan# 844
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

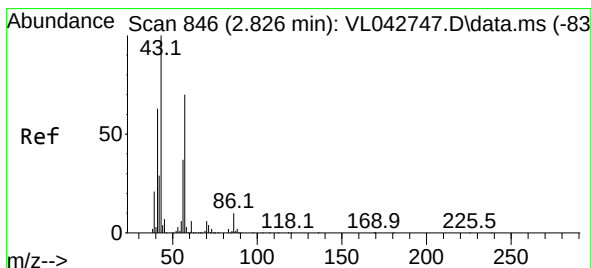
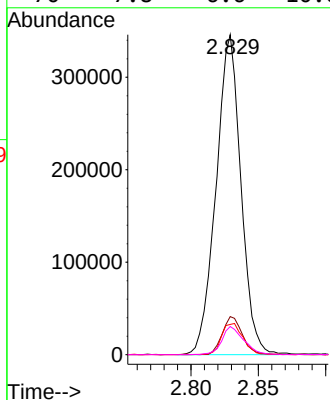
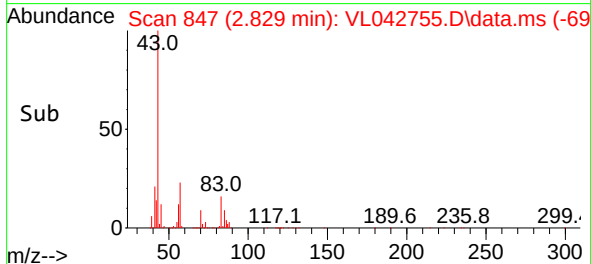


Tgt Ion: 43 Resp: 444208
Ion Ratio Lower Upper
43 100
45 9.7 7.8 11.6
61 8.7 6.7 10.1
70 7.8 6.6 10.0

Manual Integrations

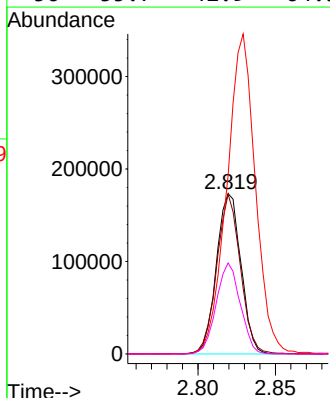
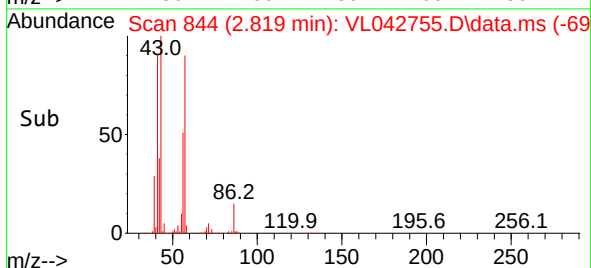
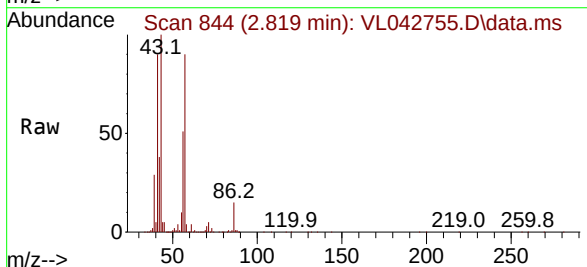
APPROVED

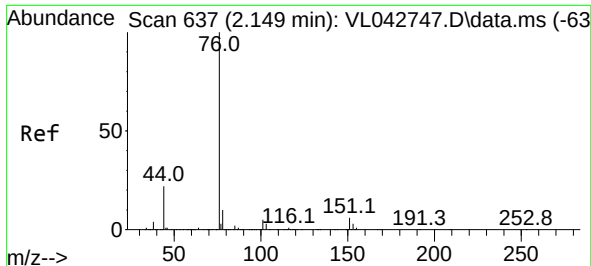
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#26
Hexane
Concen: 9.597 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

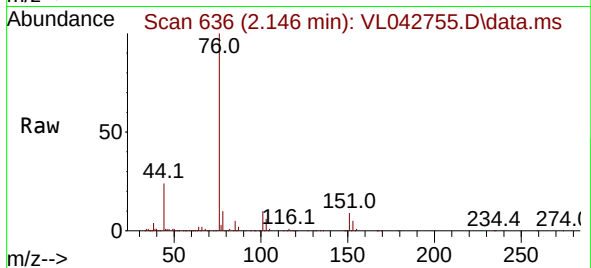
Tgt Ion: 57 Resp: 190523
Ion Ratio Lower Upper
57 100
41 96.3 75.4 113.2
43 234.2 185.0 277.6
56 55.7 42.9 64.3





#27
Carbon Disulfide
Concen: 9.652 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

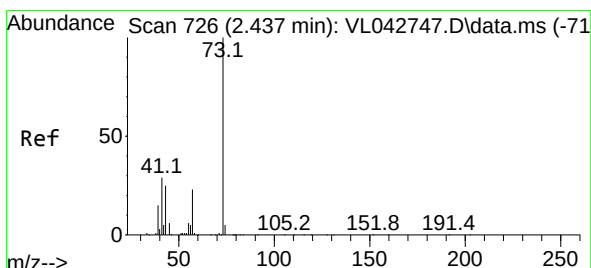
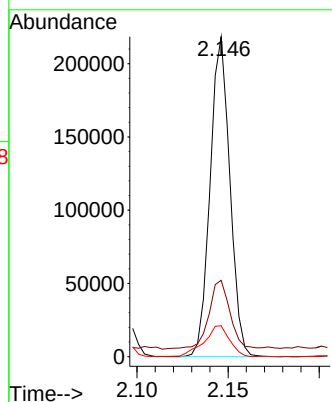
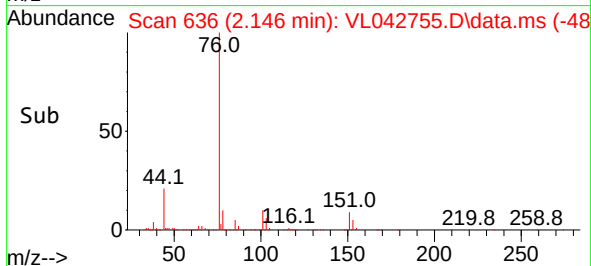
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



Tgt Ion: 76 Resp: 164040
Ion Ratio Lower Upper
76 100
44 23.7 19.3 28.9
78 12.7 9.9 14.9

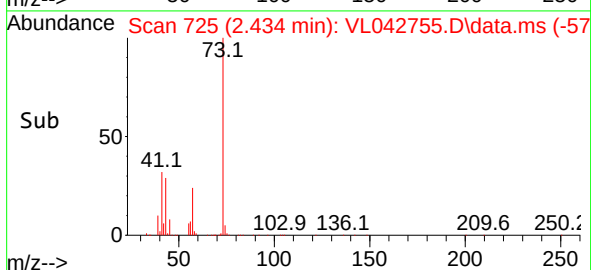
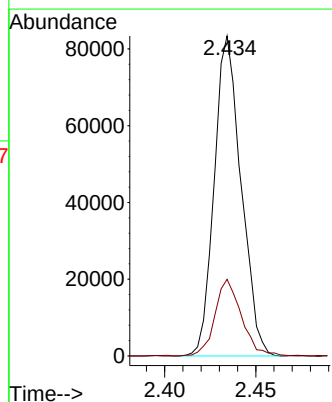
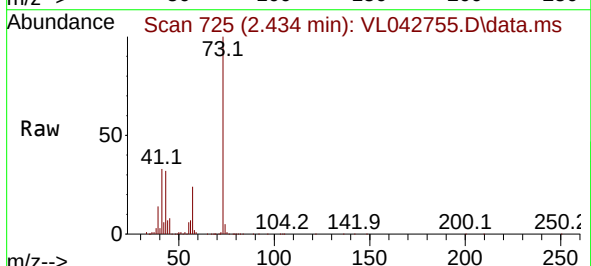
Manual Integrations
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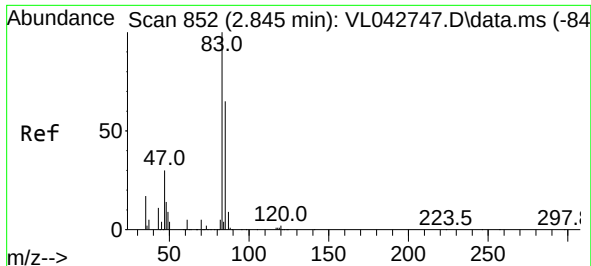
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#28
Methyl tert-Butyl Ether
Concen: 9.114 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 73 Resp: 85480
Ion Ratio Lower Upper
73 100
57 23.8 19.8 29.8





#29

Chloroform

Concen: 9.643 ppbv

RT: 2.842 min Scan# 8

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

Tgt Ion: 83 Resp: 295808

Ion Ratio Lower Upper

83 100

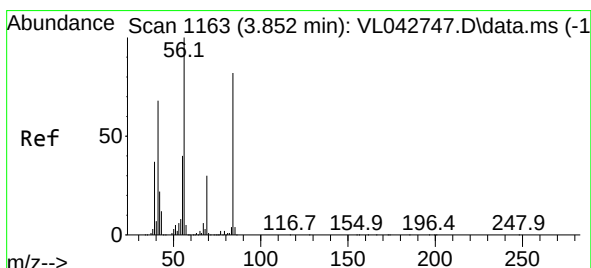
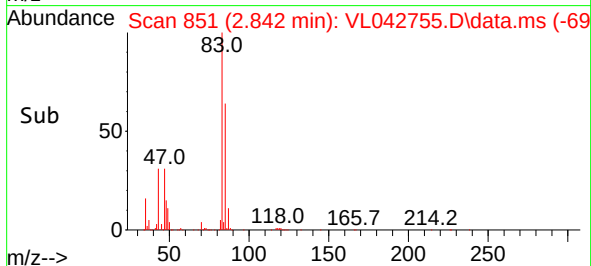
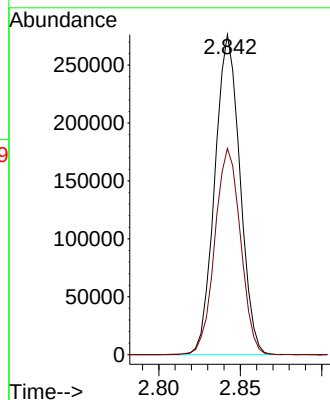
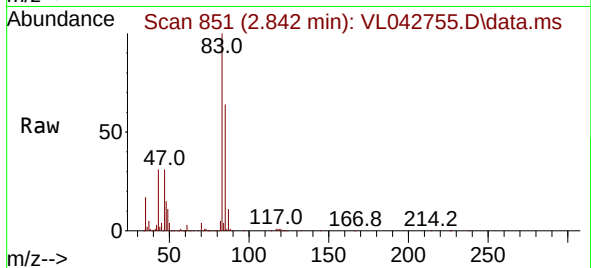
85 64.4 52.2 78.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#30

Cyclohexane

Concen: 9.773 ppbv

RT: 3.849 min Scan# 1162

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

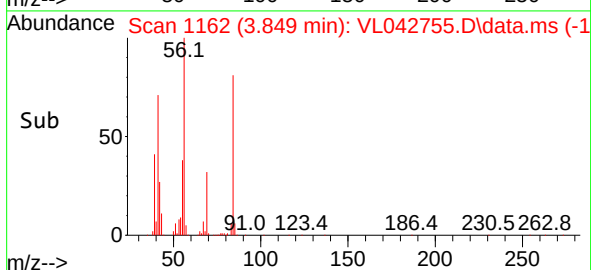
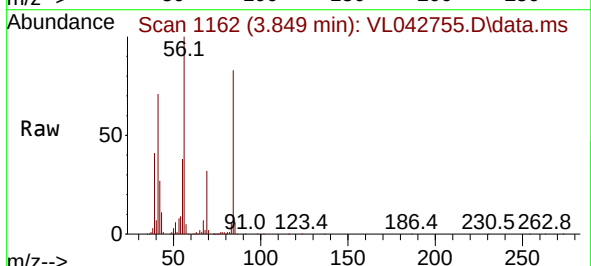
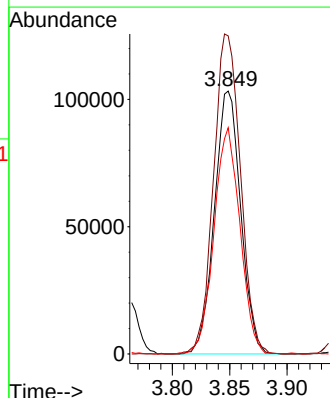
Tgt Ion: 84 Resp: 164554

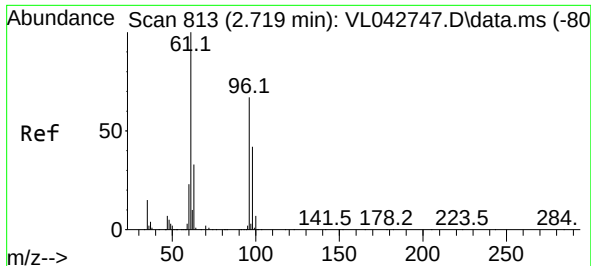
Ion Ratio Lower Upper

84 100

56 124.9 97.5 146.3

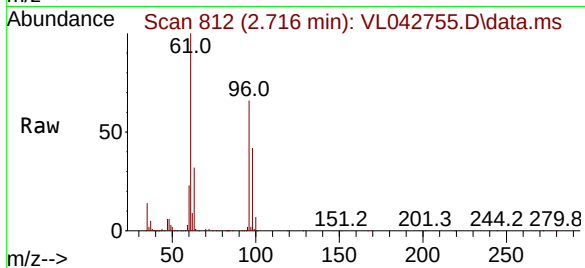
41 85.5 67.2 100.8





#31
 cis-1,2-Dichloroethene
 Concen: 9.802 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

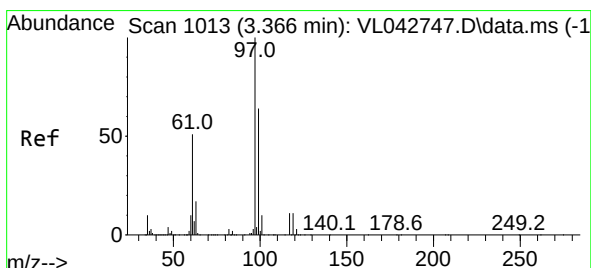
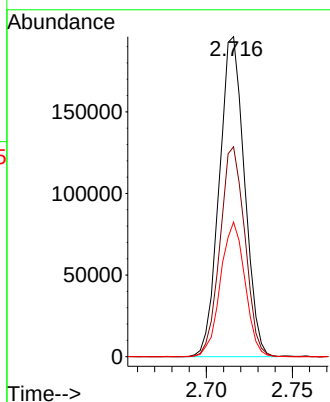
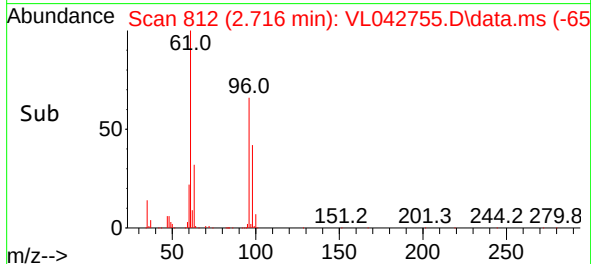
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325



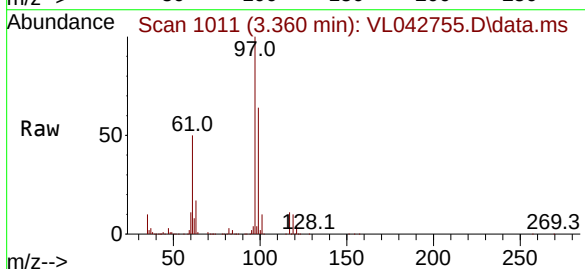
Tgt Ion: 61 Resp: 199970
 Ion Ratio Lower Upper
 61 100
 96 65.6 53.5 80.3
 98 42.1 33.6 50.4

Manual Integrations
 APPROVED

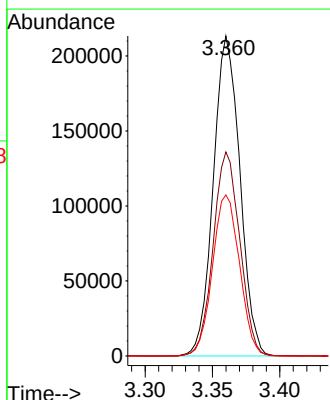
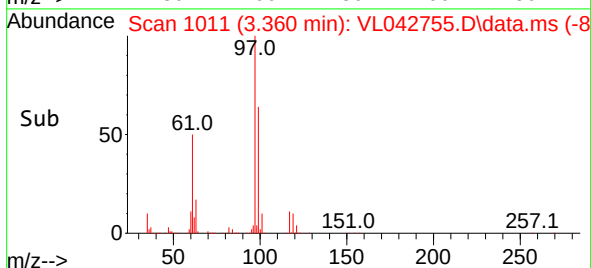
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

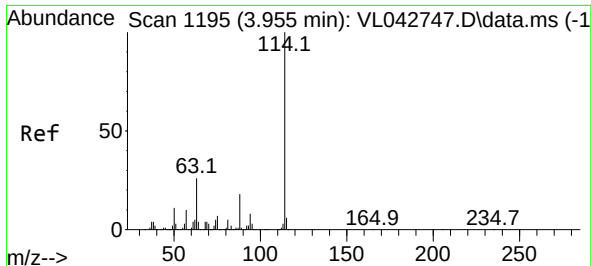


#32
 1,1,1-Trichloroethane
 Concen: 9.172 ppbv
 RT: 3.360 min Scan# 1011
 Delta R.T. -0.006 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33



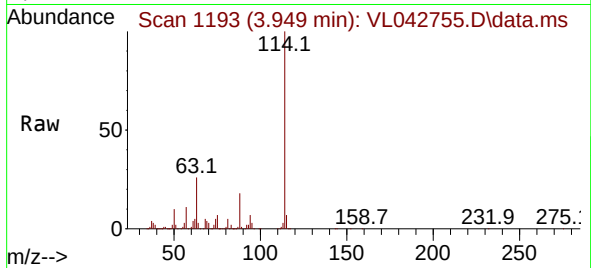
Tgt Ion: 97 Resp: 293074
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.6
 61 51.4 40.9 61.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

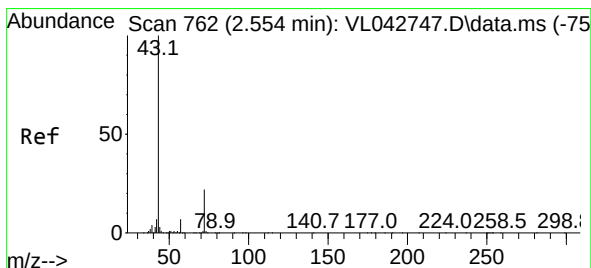
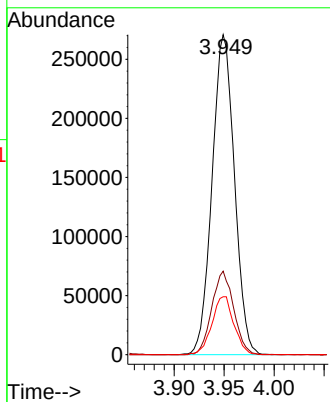
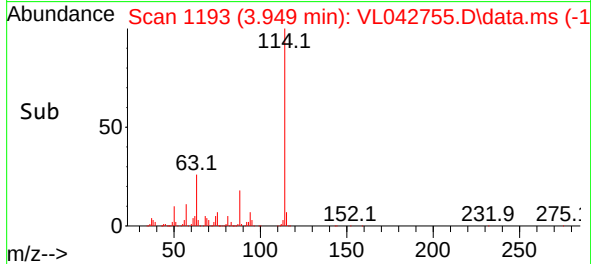
Instrument : MSVOA_L
ClientSampleId : ICVVL072325



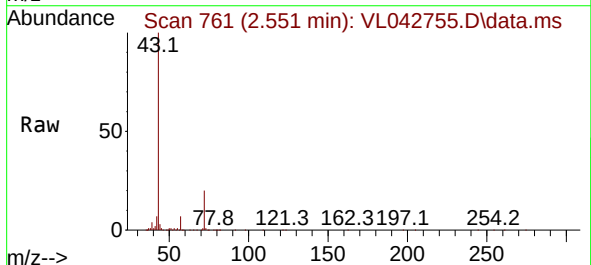
Tgt Ion:114 Resp: 42174
Ion Ratio Lower Upper
114 100
63 25.6 20.5 30.7
88 17.8 14.0 21.0

Manual Integrations
APPROVED

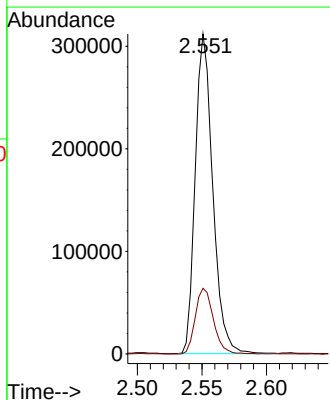
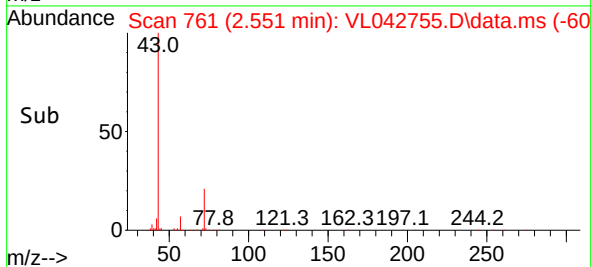
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

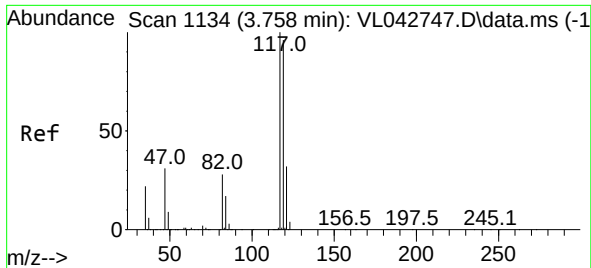


#34
2-Butanone
Concen: 9.869 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



Tgt Ion: 43 Resp: 294837
Ion Ratio Lower Upper
43 100
72 21.4 17.4 26.0





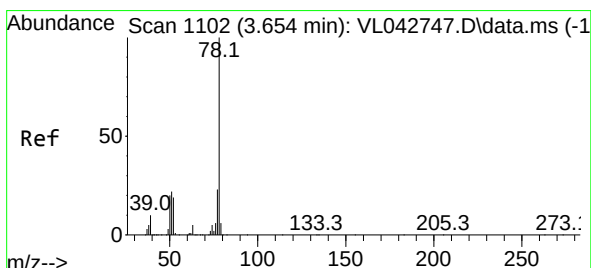
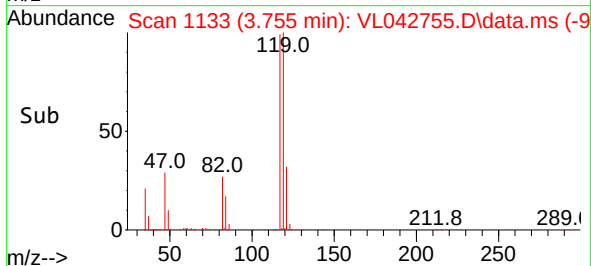
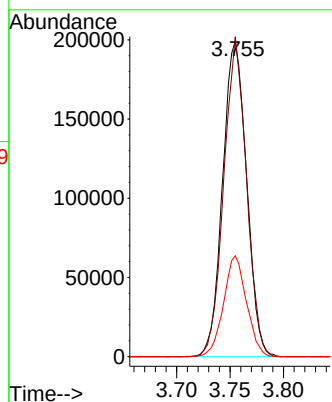
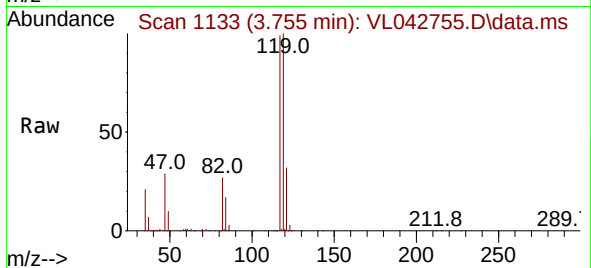
#35
Carbon Tetrachloride
Concen: 9.900 ppbv
RT: 3.755 min Scan# 1112
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument : MSVOA_L
ClientSampleId : ICVVL072325

Tgt Ion:117 Resp: 310129
Ion Ratio Lower Upper
117 100
119 101.4 77.1 115.7
121 32.0 25.5 38.3

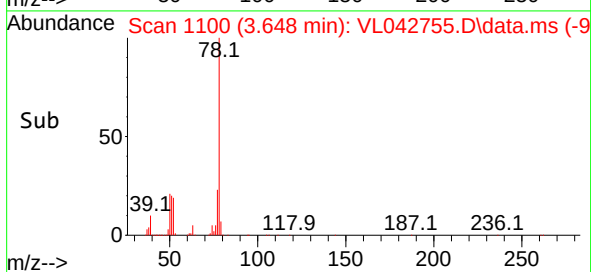
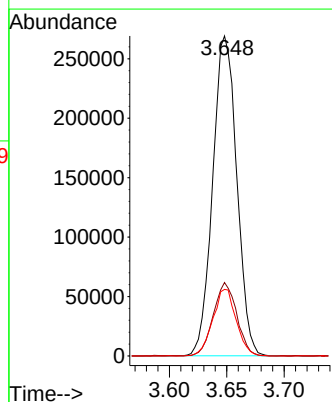
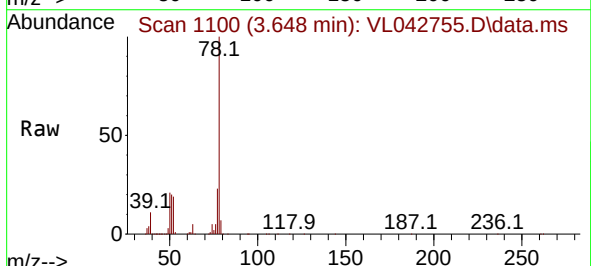
Manual Integrations
APPROVED

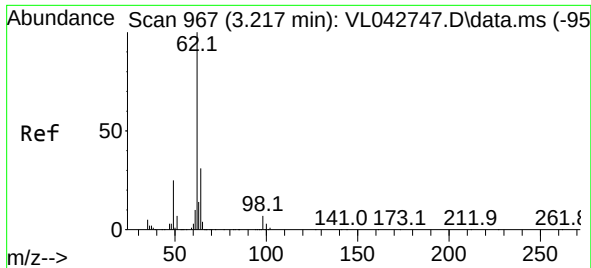
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#36
Benzene
Concen: 9.834 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 78 Resp: 393085
Ion Ratio Lower Upper
78 100
77 22.9 18.5 27.7
50 20.8 16.2 24.2





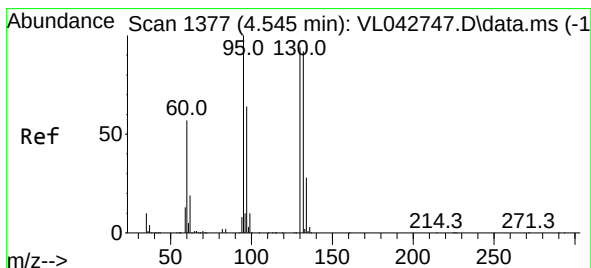
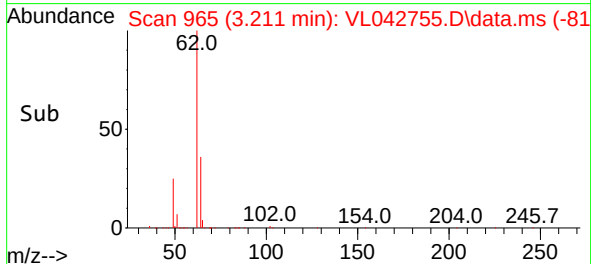
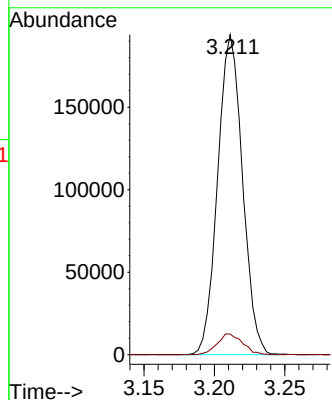
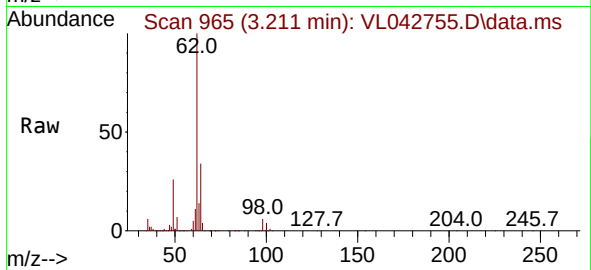
#37
1,2-Dichloroethane
Concen: 9.895 ppbv
RT: 3.211 min Scan# 90
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 62 Resp: 238249
Ion Ratio Lower Upper
62 100
98 6.6 5.2 7.8

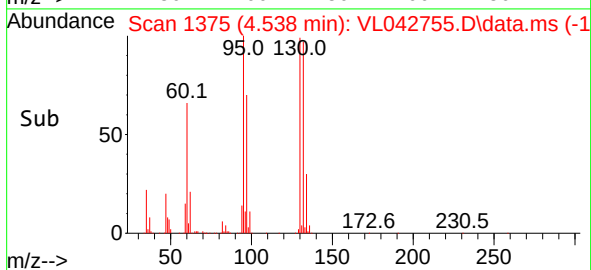
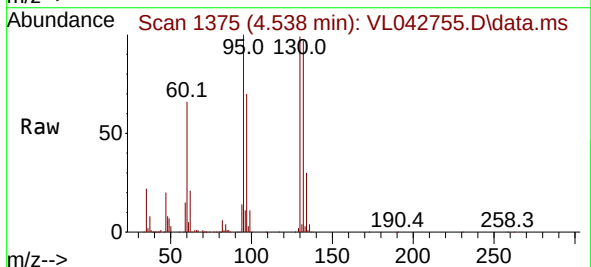
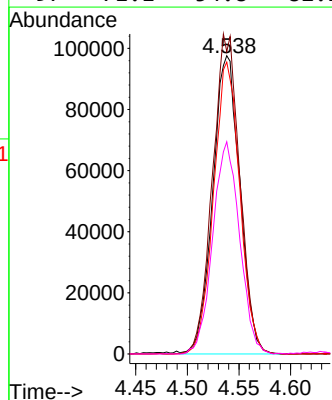
Manual Integrations
APPROVED

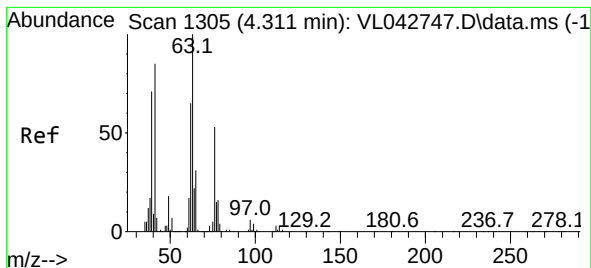
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#38
Trichloroethene
Concen: 9.301 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:130 Resp: 178600
Ion Ratio Lower Upper
130 100
95 101.3 85.4 128.2
132 97.7 78.2 117.2
97 71.1 54.8 82.2





#39

1,2-Dichloropropane

Concen: 9.578 ppbv

RT: 4.305 min Scan# 1305

Delta R.T. -0.006 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

Tgt Ion: 63 Resp: 141310

Ion Ratio Lower Upper

63 100

41 84.3 68.2 102.4

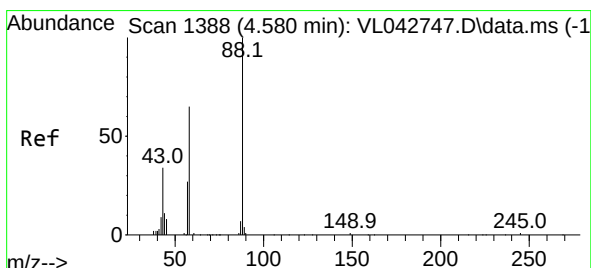
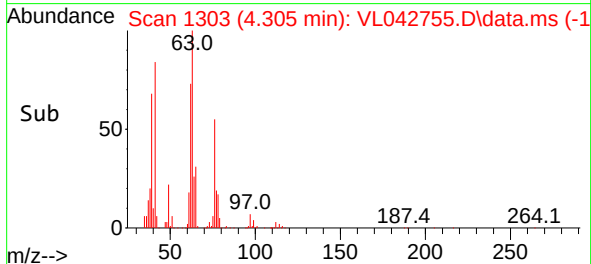
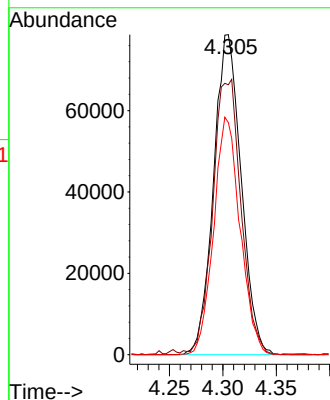
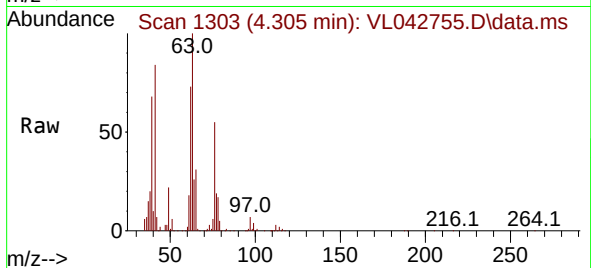
62 72.5 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#40

1,4-Dioxane

Concen: 9.481 ppbv

RT: 4.570 min Scan# 1385

Delta R.T. -0.010 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Tgt Ion: 88 Resp: 65204

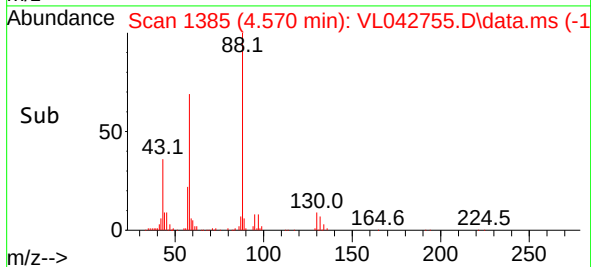
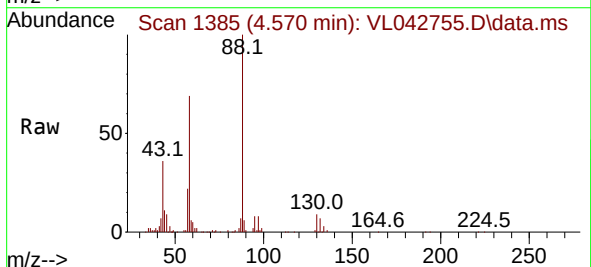
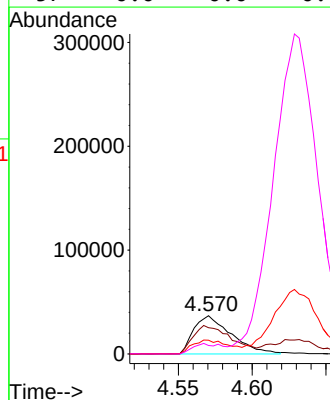
Ion Ratio Lower Upper

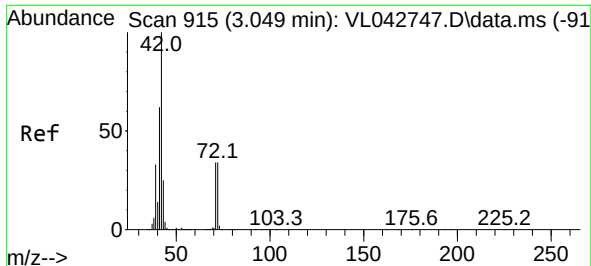
88 100

58 78.4 58.8 88.2

43 32.6 28.9 43.3

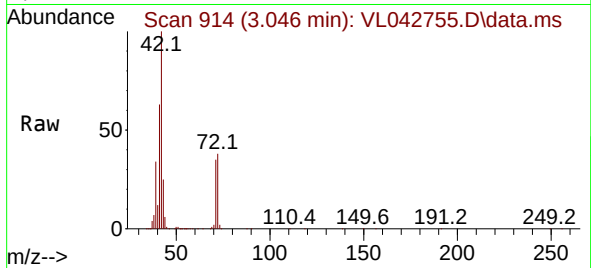
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 10.404 ppbv
RT: 3.046 min Scan# 915
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

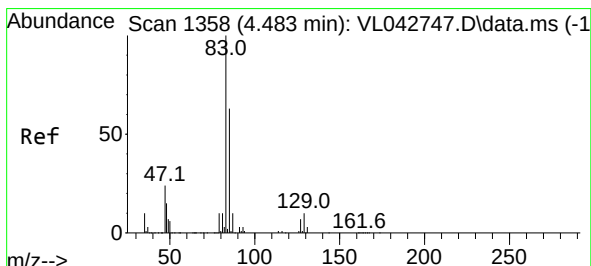
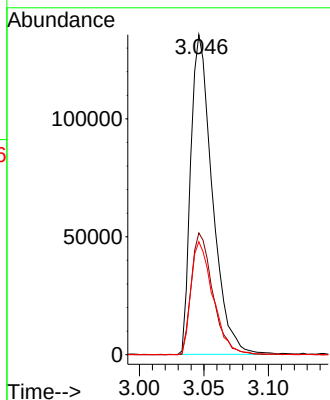
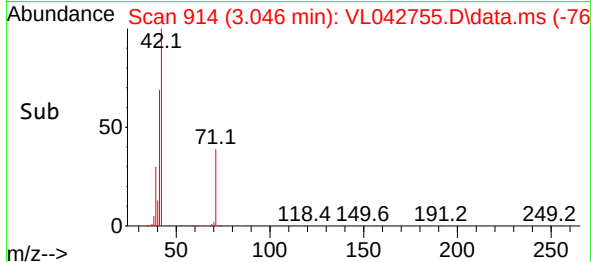
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



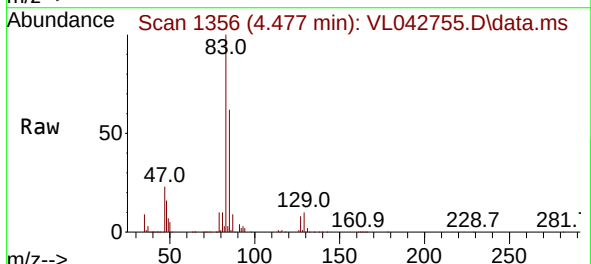
Tgt Ion: 42 Resp: 158159
Ion Ratio Lower Upper
42 100
72 38.2 30.9 46.3
71 36.2 28.6 43.0

Manual Integrations
APPROVED

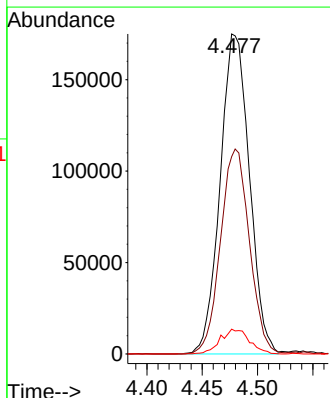
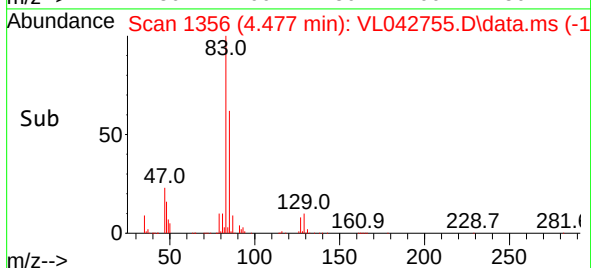
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

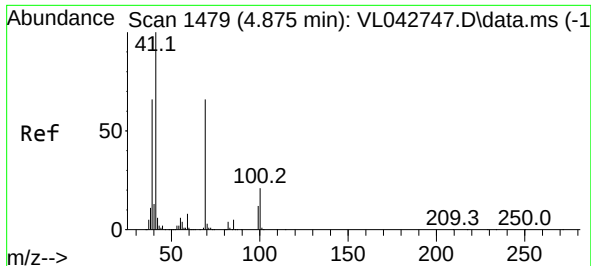


#42
Bromodichloromethane
Concen: 10.254 ppbv
RT: 4.477 min Scan# 1356
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



Tgt Ion: 83 Resp: 321549
Ion Ratio Lower Upper
83 100
85 61.6 50.2 75.4
127 7.7 5.4 8.2





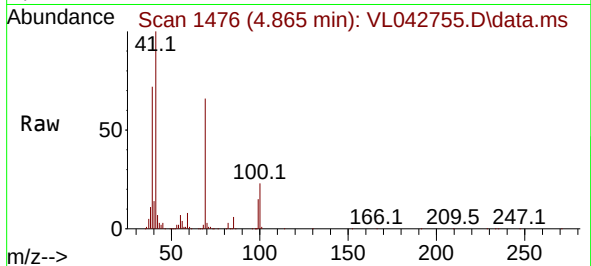
#43
Methyl Methacrylate
Concen: 10.738 ppbv
RT: 4.865 min Scan# 1479
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

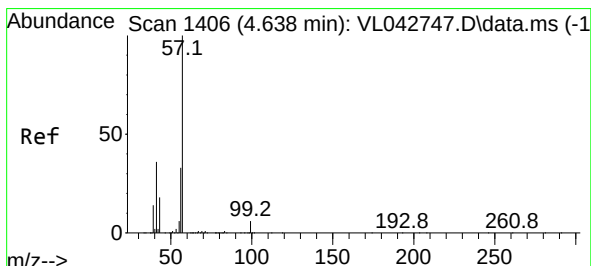
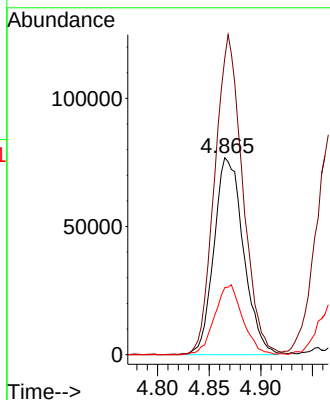
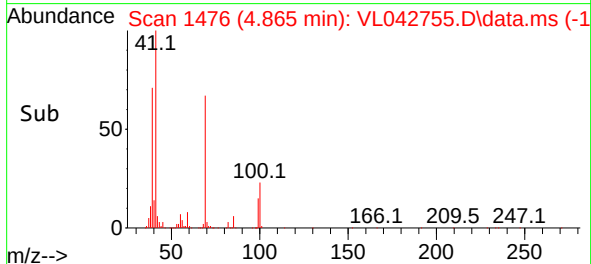
ICVVL072325



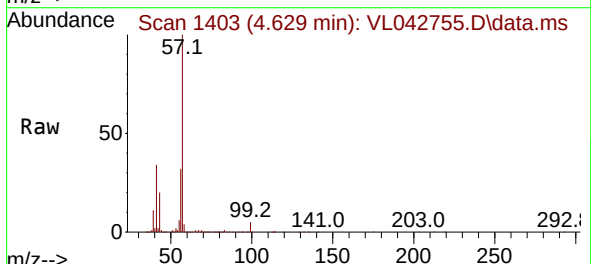
Tgt Ion: 69 Resp: 15255
Ion Ratio Lower Upper
69 100
41 153.9 125.7 188.5
100 33.9 28.6 42.8

Manual Integrations
APPROVED

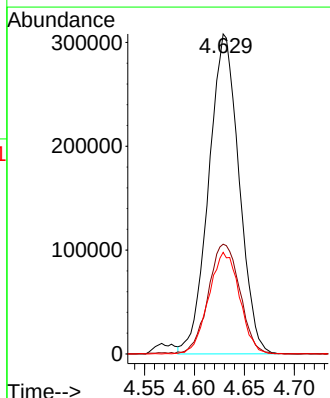
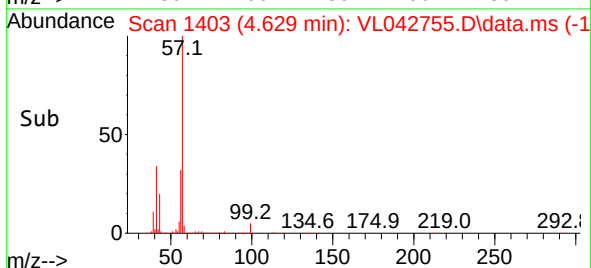
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

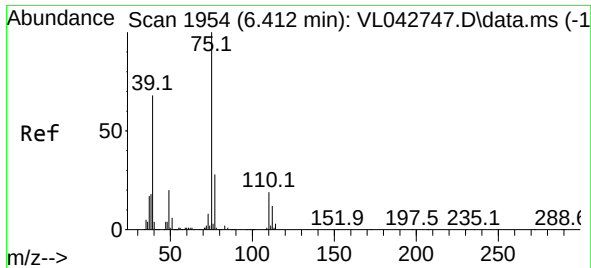


#44
2,2,4-Trimethylpentane
Concen: 9.973 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



Tgt Ion: 57 Resp: 649720
Ion Ratio Lower Upper
57 100
41 36.3 28.3 42.5
56 32.4 25.8 38.6





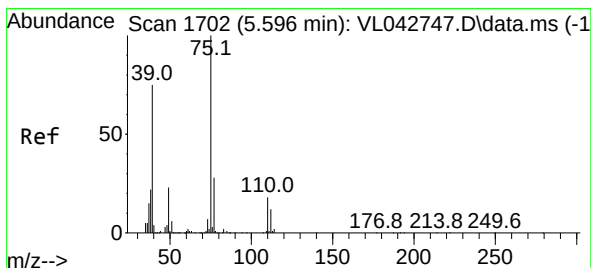
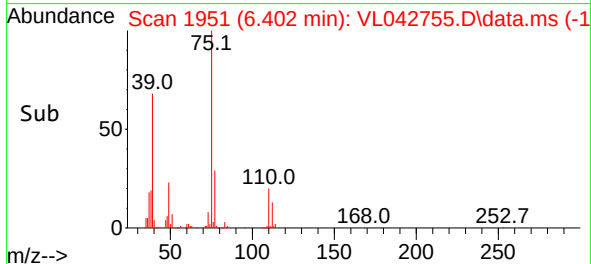
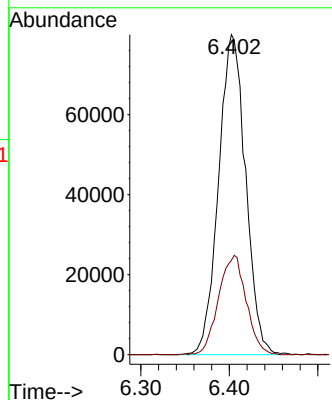
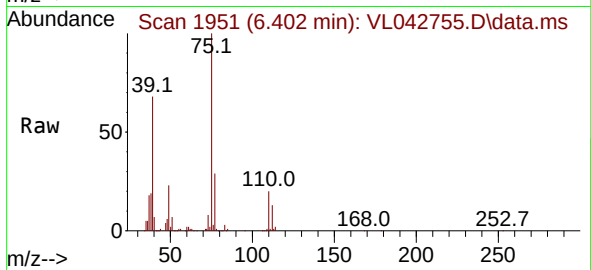
#45
t-1,3-Dichloropropene
Concen: 10.643 ppbv
RT: 6.402 min Scan# 1954
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument : MSVOA_L
ClientSampleId : ICVVL072325

Tgt Ion: 75 Resp: 16956
Ion Ratio Lower Upper
75 100
77 29.5 22.4 33.6

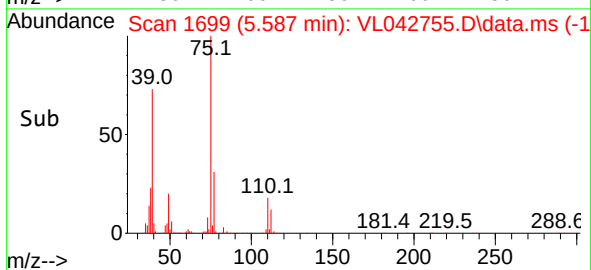
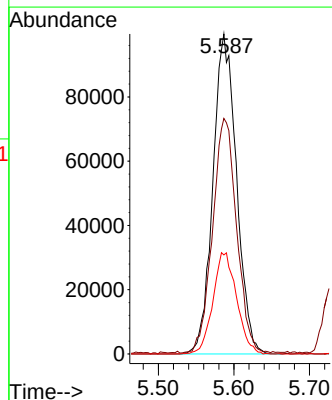
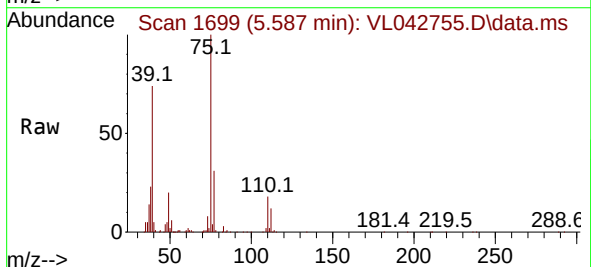
Manual Integrations
APPROVED

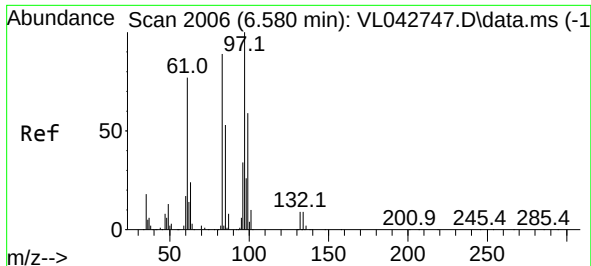
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#46
cis-1,3-Dichloropropene
Concen: 10.679 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

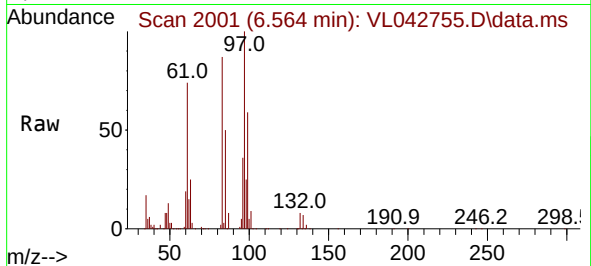
Tgt Ion: 75 Resp: 215596
Ion Ratio Lower Upper
75 100
39 73.3 60.2 90.2
77 30.9 22.6 34.0





#47
1,1,2-Trichloroethane
Concen: 9.848 ppbv m
RT: 6.564 min Scan# 2006
Delta R.T. -0.016 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

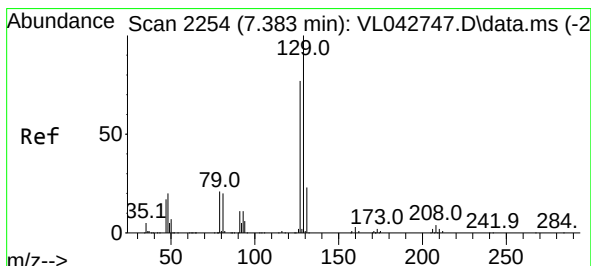
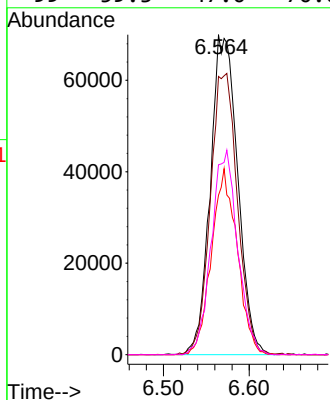
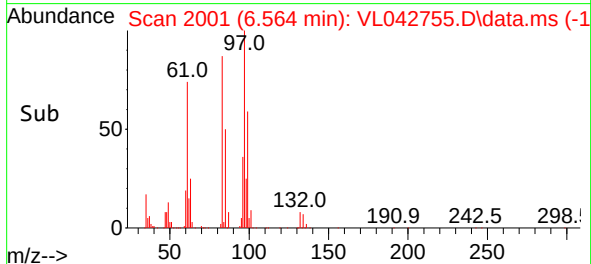
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



Tgt Ion: 97 Resp: 15488
Ion Ratio Lower Upper
97 100
83 86.9 71.1 106.7
85 49.8 43.0 64.4
99 59.3 47.0 70.6

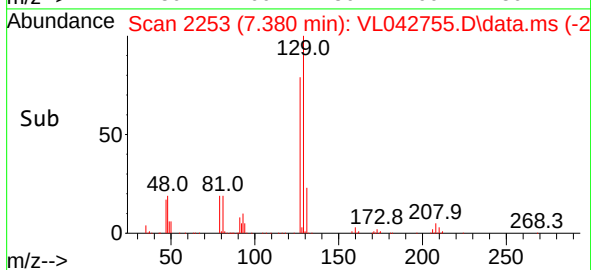
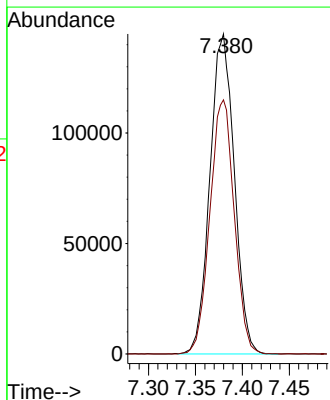
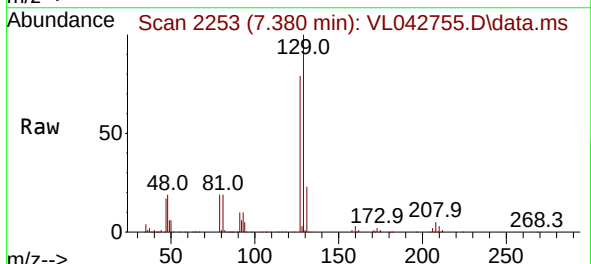
Manual Integrations
APPROVED

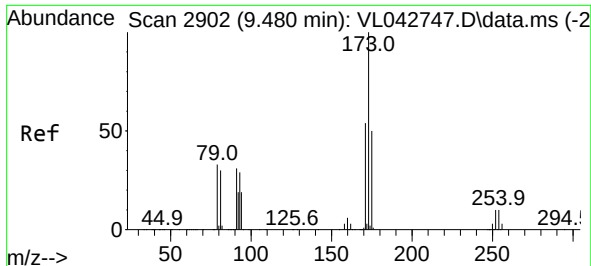
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#48
Dibromochloromethane
Concen: 10.460 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

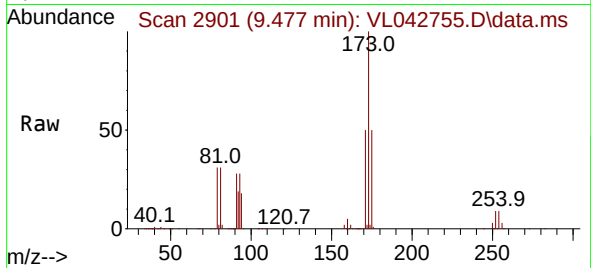
Tgt Ion:129 Resp: 261174
Ion Ratio Lower Upper
129 100
127 79.4 38.7 116.1





#49
Bromoform
Concen: 10.729 ppbv
RT: 9.477 min Scan# 2902
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

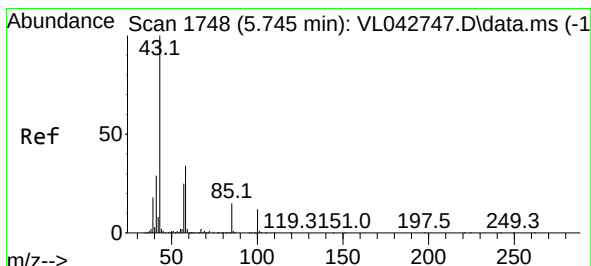
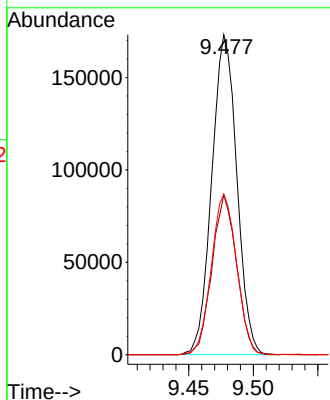
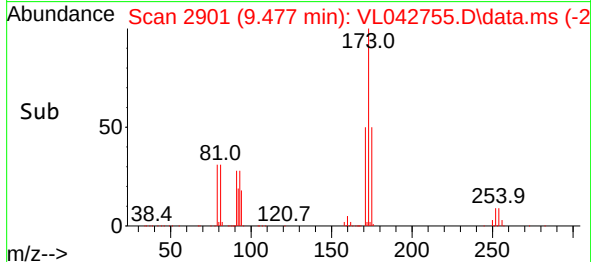
Instrument : MSVOA_L
ClientSampleId : ICVVL072325



Tgt Ion:173 Resp: 23357
Ion Ratio Lower Upper
173 100
175 49.0 38.4 57.6
171 50.7 40.9 61.3

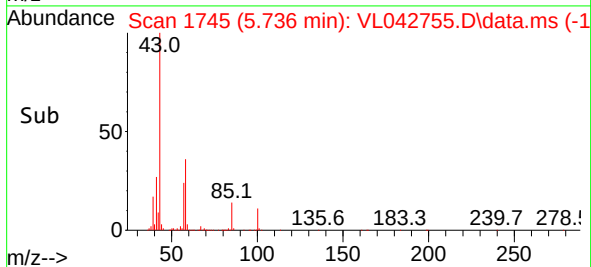
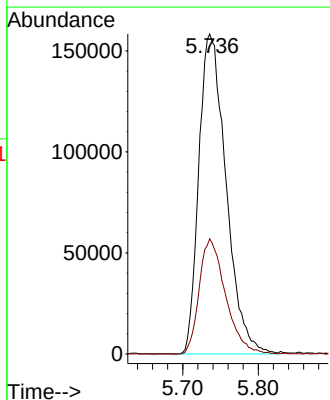
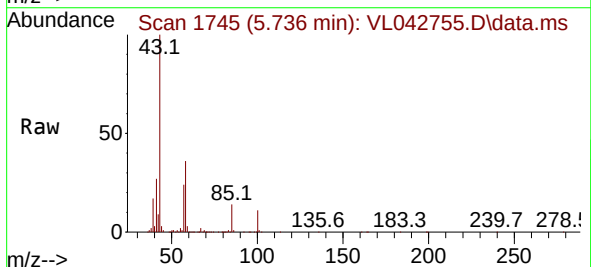
Manual Integrations
APPROVED

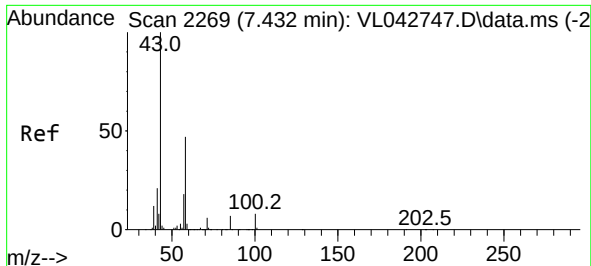
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#50
4-Methyl-2-Pentanone
Concen: 10.303 ppbv
RT: 5.736 min Scan# 1745
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

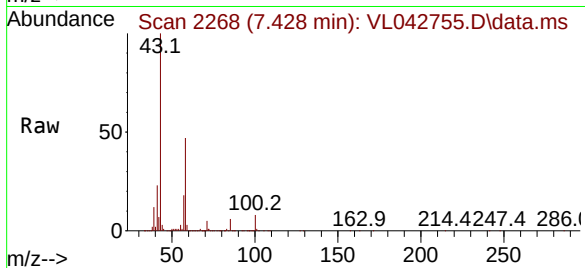
Tgt Ion: 43 Resp: 396506
Ion Ratio Lower Upper
43 100
58 34.9 27.8 41.8





#51
2-Hexanone
Concen: 11.029 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

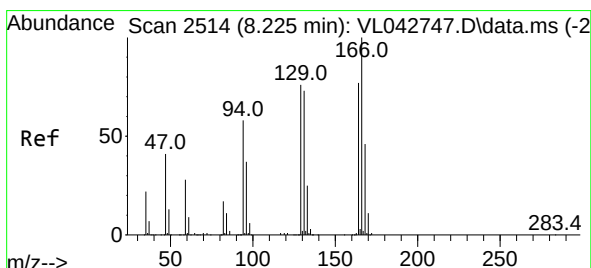
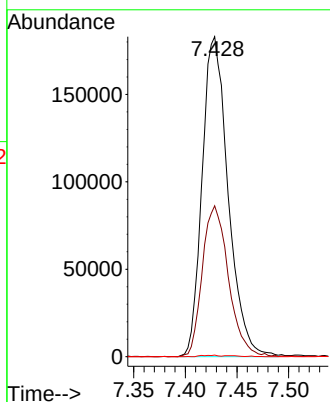
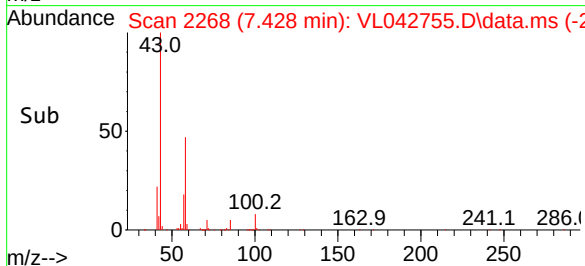
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



Tgt Ion: 43 Resp: 320740
Ion Ratio Lower Upper
43 100
58 47.8 38.0 57.0
98 0.5 0.2 0.4

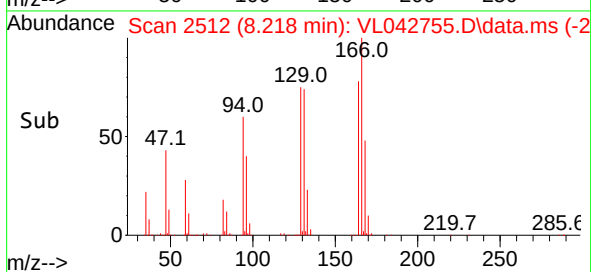
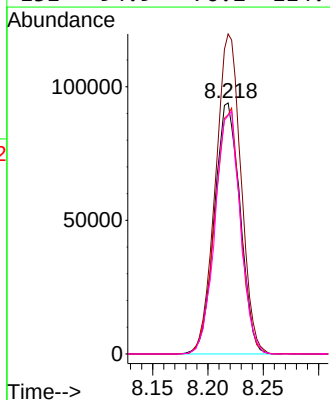
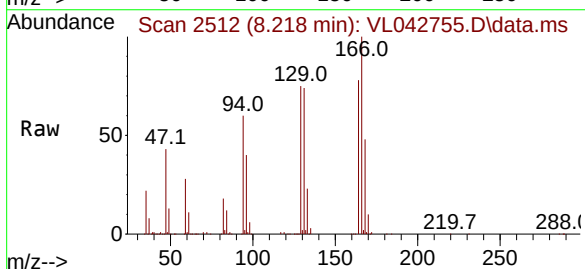
Manual Integrations
APPROVED

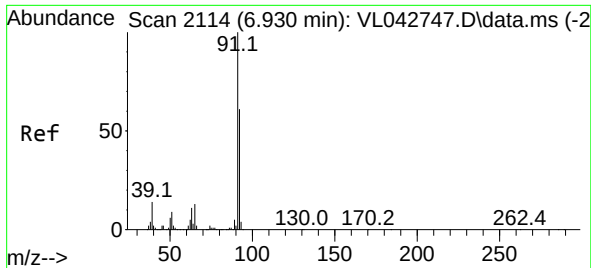
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#52
Tetrachloroethene
Concen: 9.163 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:164 Resp: 151810
Ion Ratio Lower Upper
164 100
166 127.4 104.0 156.0
129 95.3 79.2 118.8
131 94.9 76.2 114.4





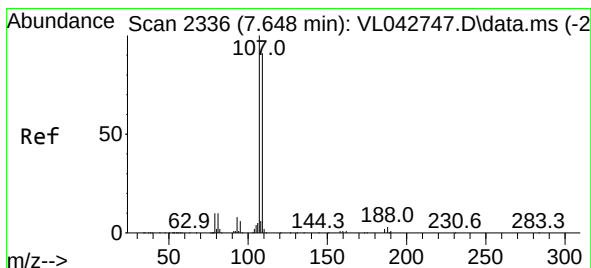
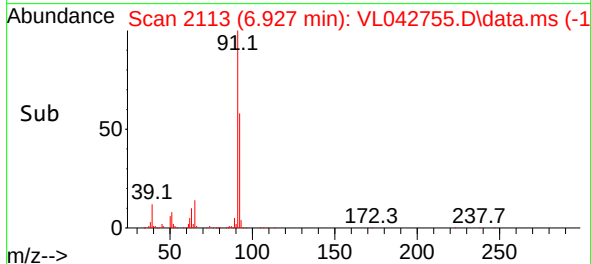
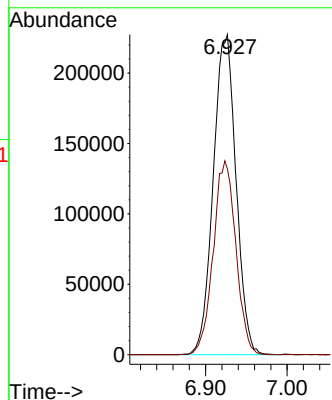
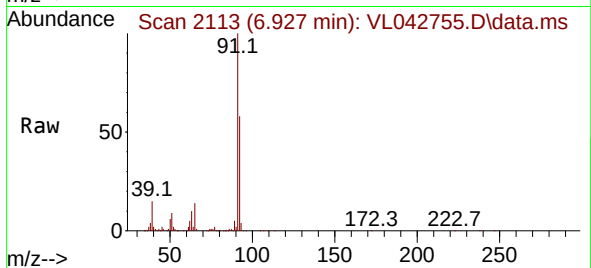
#53
Toluene
Concen: 10.294 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 91 Resp: 441829
Ion Ratio Lower Upper
91 100
92 60.0 48.0 72.0

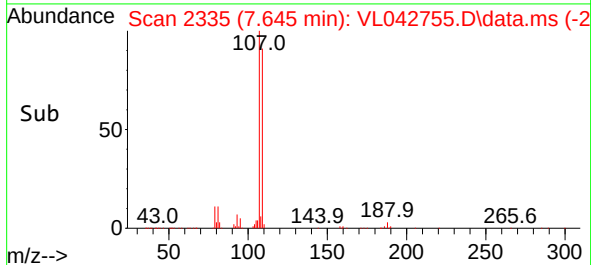
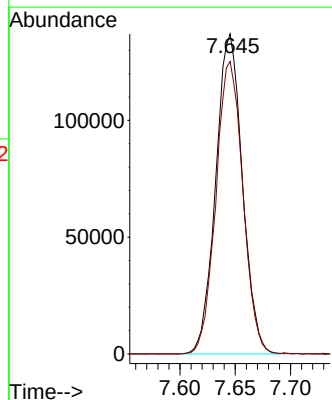
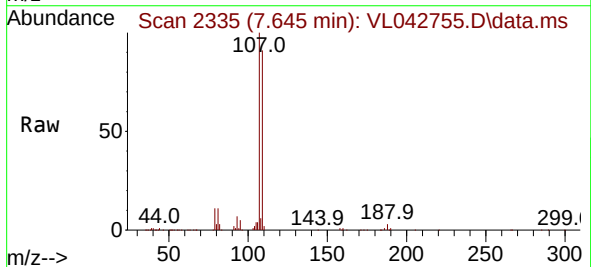
Manual Integrations
APPROVED

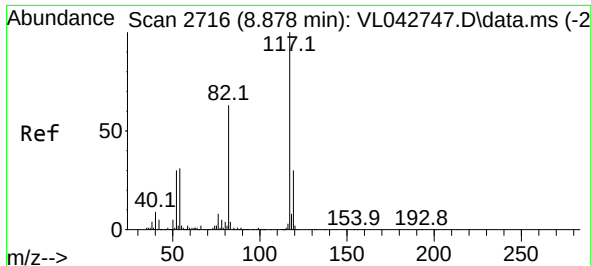
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#54
1,2-Dibromoethane
Concen: 10.331 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:107 Resp: 229563
Ion Ratio Lower Upper
107 100
109 91.3 72.7 109.1





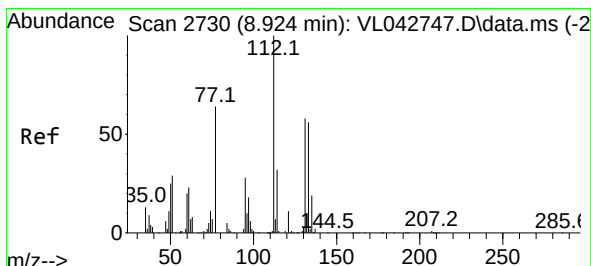
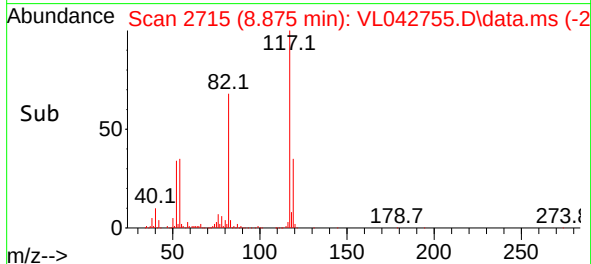
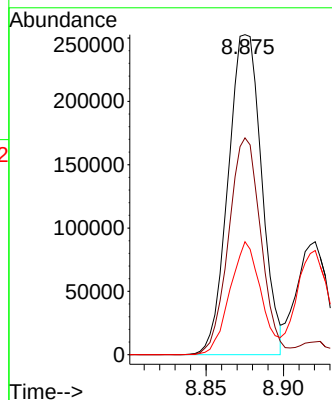
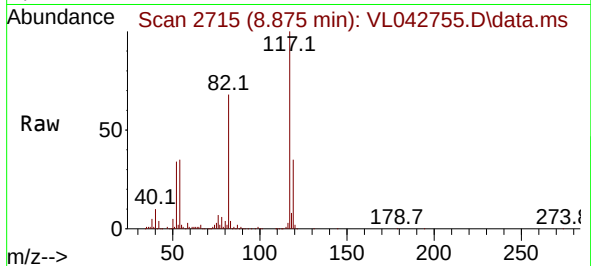
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument : MSVOA_L
ClientSampleId : ICVVL072325

Tgt Ion:117 Resp: 380539
Ion Ratio Lower Upper
117 100
82 68.9 53.3 79.9
119 33.0 25.8 38.6

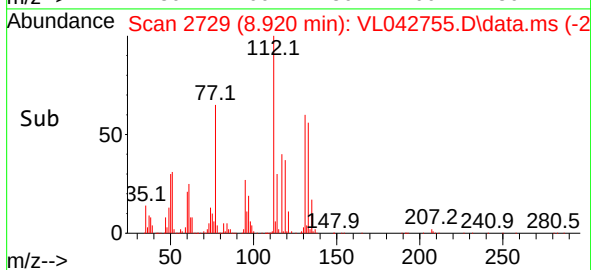
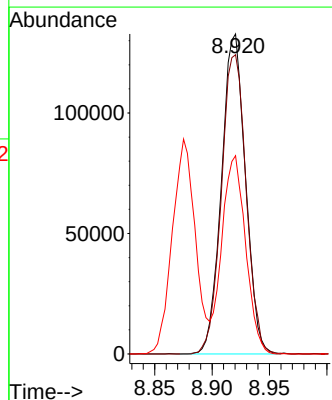
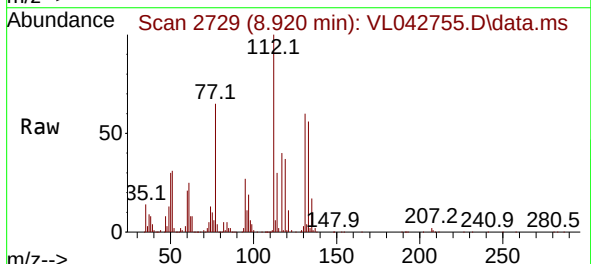
Manual Integrations
APPROVED

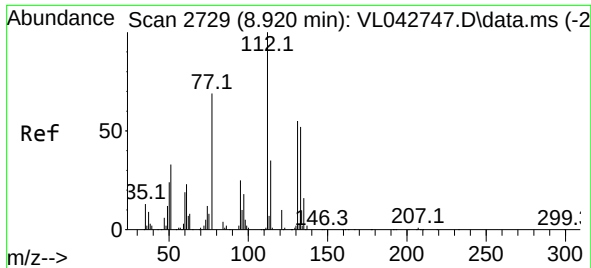
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.759 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

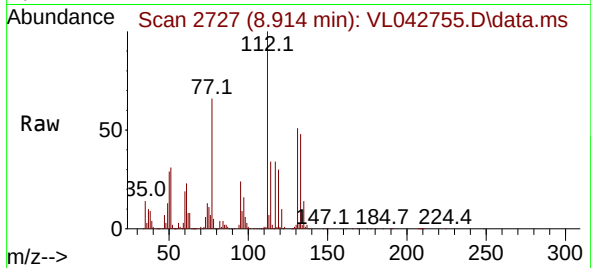
Tgt Ion:131 Resp: 193089
Ion Ratio Lower Upper
131 100
133 96.6 76.8 115.2
119 61.2 49.7 74.5





#57
Chlorobenzene
Concen: 9.623 ppbv
RT: 8.914 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

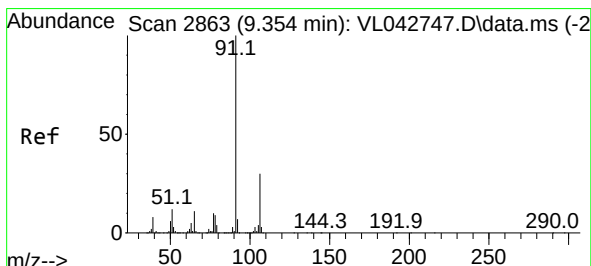
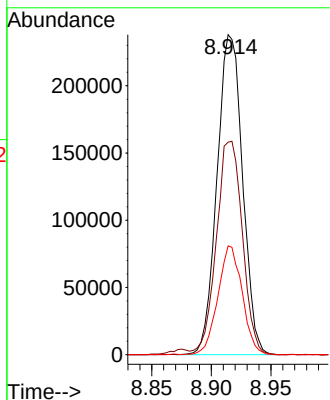
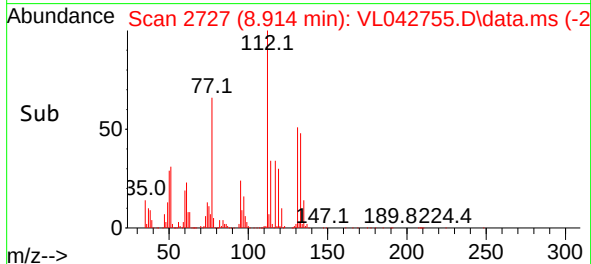
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



Tgt Ion:112 Resp: 354412
Ion Ratio Lower Upper
112 100
77 66.4 56.4 84.6
114 34.0 31.2 38.2

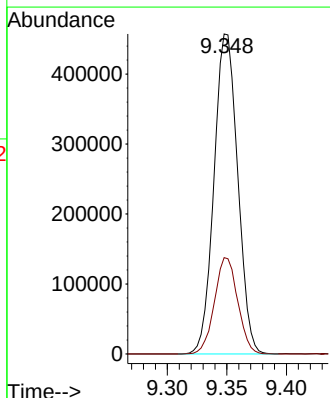
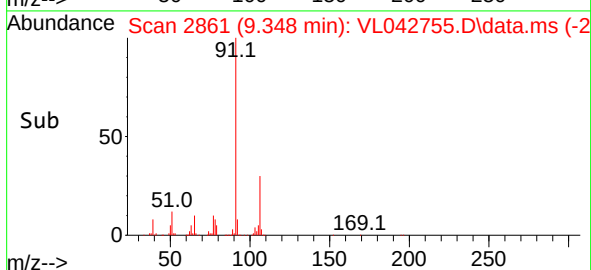
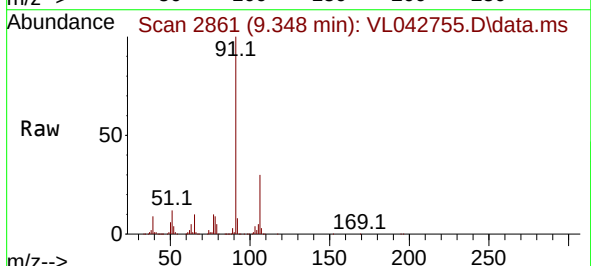
Manual Integrations
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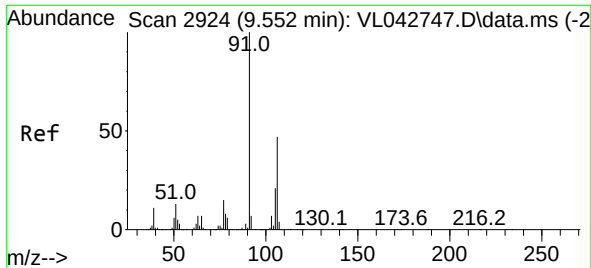
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#58
Ethyl Benzene
Concen: 10.504 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 631247
Ion Ratio Lower Upper
91 100
106 30.1 23.8 35.6





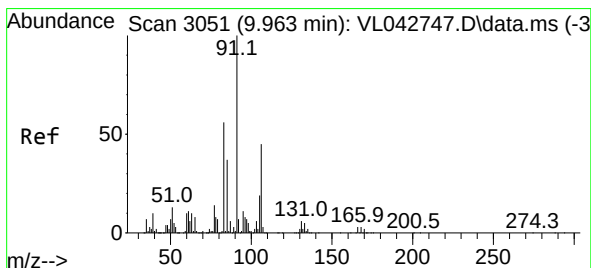
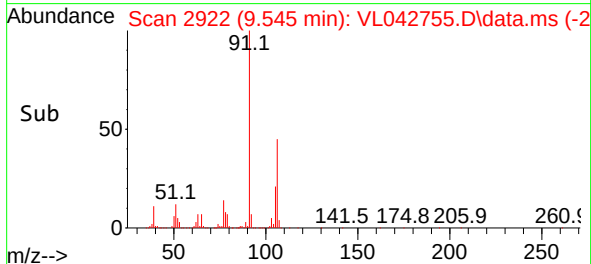
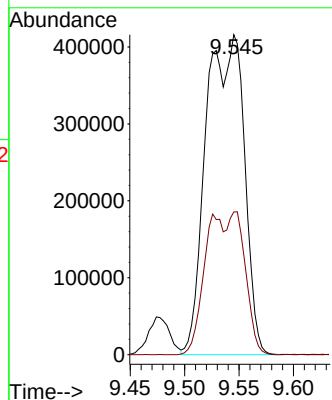
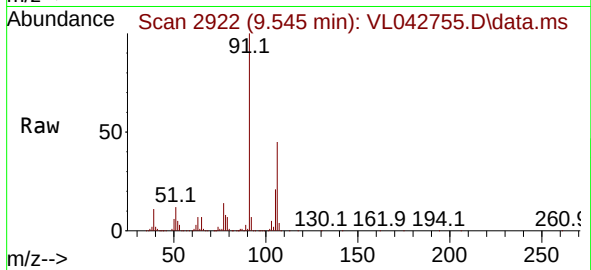
#59
m/p-Xylene
Concen: 21.160 ppbv m
RT: 9.545 min Scan# 2924
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 91 Resp: 1016249
Ion Ratio Lower Upper
91 100
106 45.4 37.4 56.2

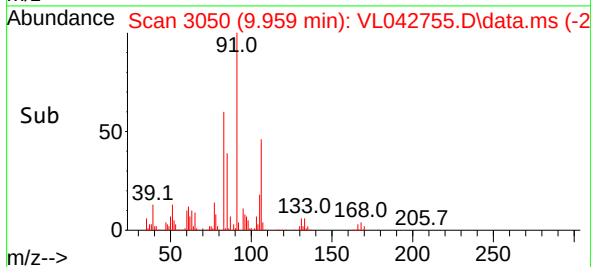
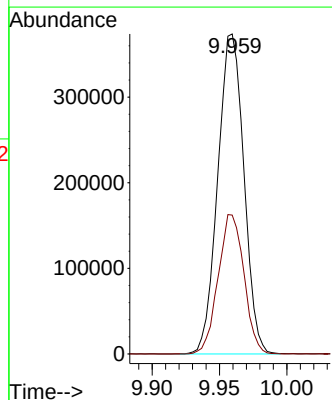
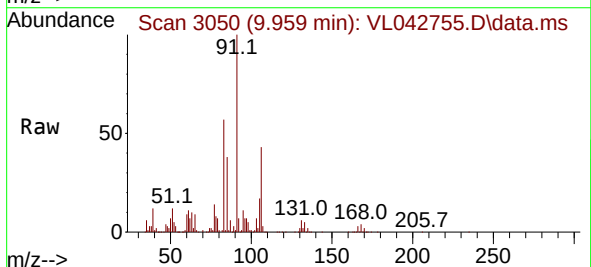
Manual Integrations
APPROVED

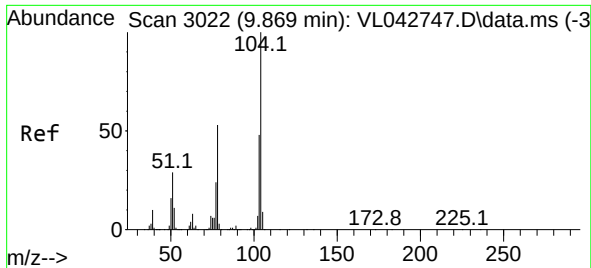
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#60
o-Xylene
Concen: 10.499 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 503849
Ion Ratio Lower Upper
91 100
106 43.1 22.0 66.0





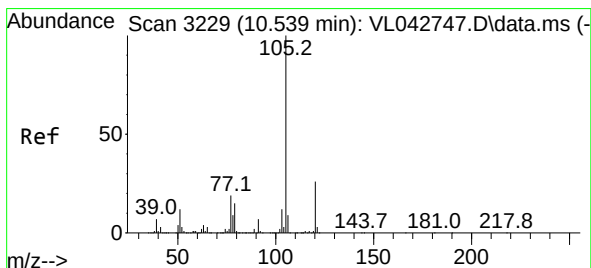
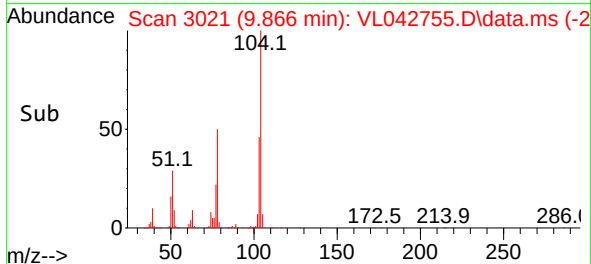
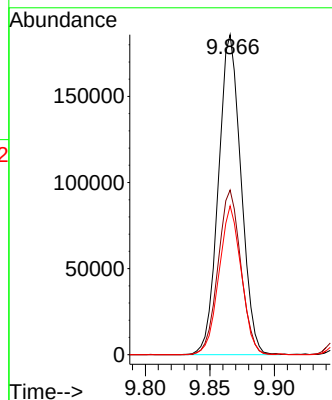
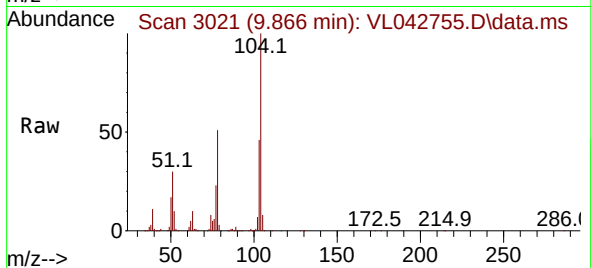
#61
Styrene
Concen: 11.185 ppbv
RT: 9.866 min Scan# 3022
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument : MSVOA_L
ClientSampleId : ICVVL072325

Tgt Ion:104 Resp: 225799
Ion Ratio Lower Upper
104 100
78 51.9 41.5 62.3
103 46.0 37.5 56.3

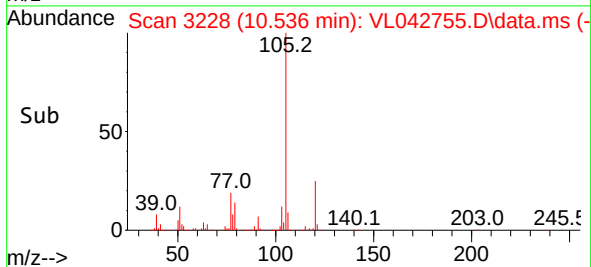
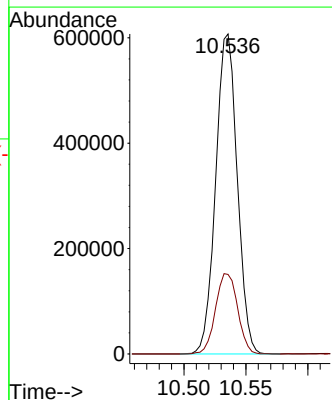
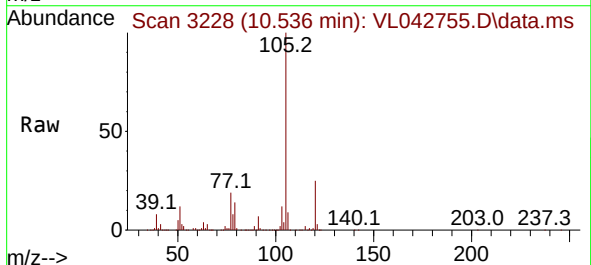
Manual Integrations
APPROVED

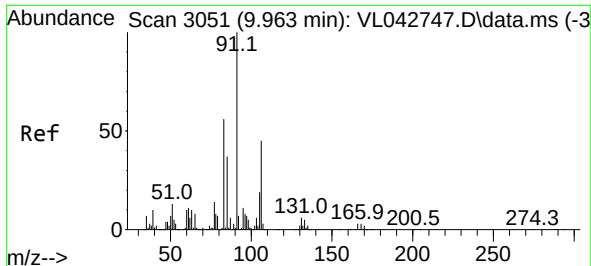
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#62
Isopropylbenzene
Concen: 10.398 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

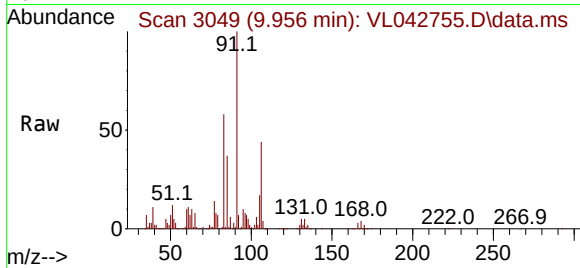
Tgt Ion:105 Resp: 736044
Ion Ratio Lower Upper
105 100
120 25.7 20.5 30.7





#63
1,1,2,2-Tetrachloroethane
Concen: 9.340 ppbv
RT: 9.956 min Scan# 3051
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

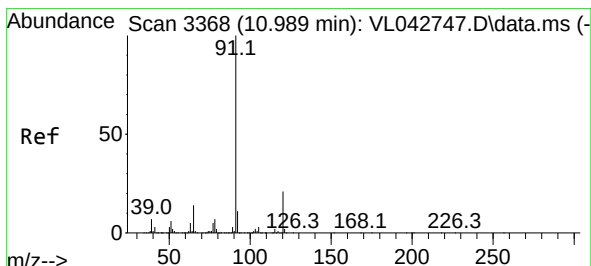
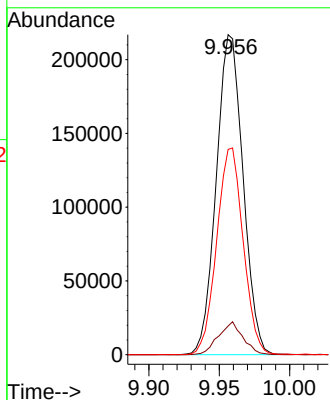
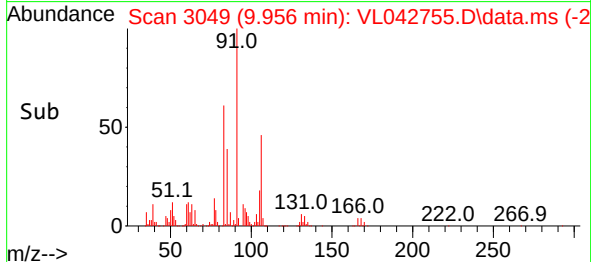
Instrument : MSVOA_L
ClientSampleId : ICVVL072325



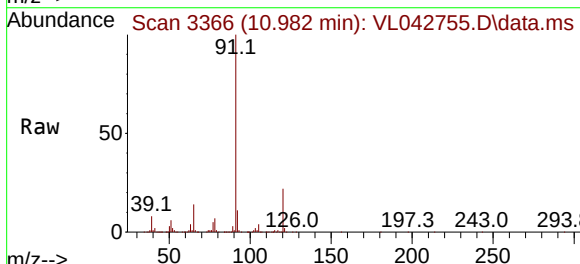
Tgt Ion: 83 Resp: 287775
Ion Ratio Lower Upper
83 100
131 9.4 5.0 15.0
85 64.0 32.6 97.7

Manual Integrations
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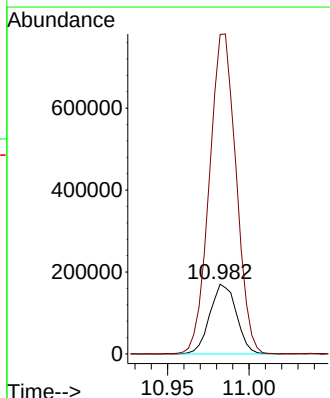
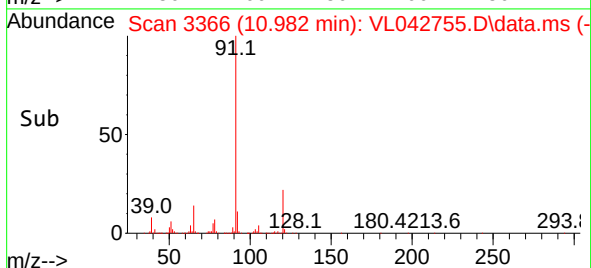
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

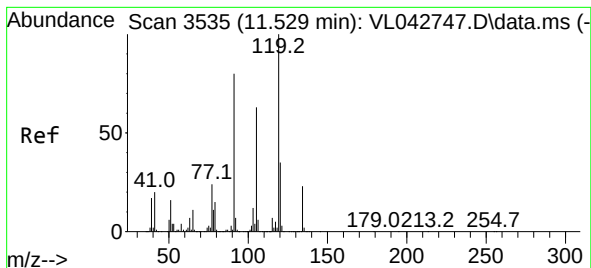


#64
n-propylbenzene
Concen: 10.460 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



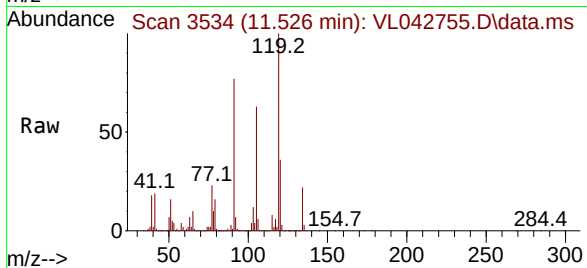
Tgt Ion:120 Resp: 193034
Ion Ratio Lower Upper
120 100
91 461.7 372.7 559.1





#65
tert-Butylbenzene
Concen: 10.512 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

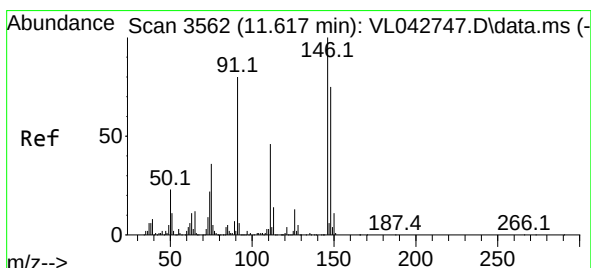
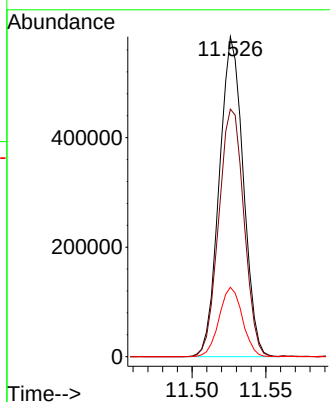
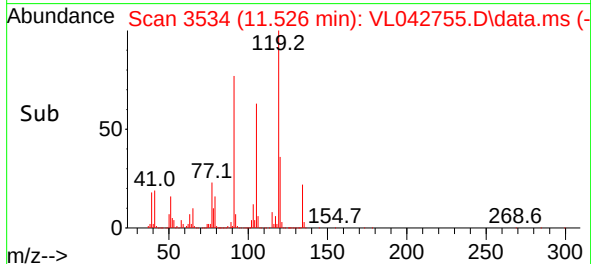
Instrument : MSVOA_L
ClientSampleId : ICVVL072325



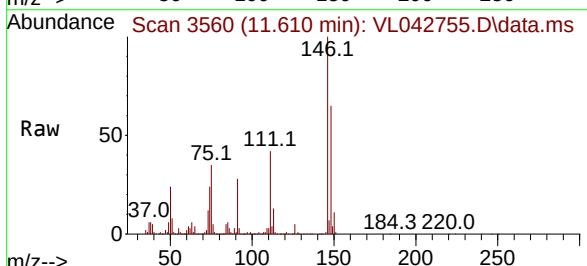
Tgt Ion:119 Resp: 660960
Ion Ratio Lower Upper
119 100
91 81.2 64.0 96.0
134 21.1 17.3 25.9

Manual Integrations
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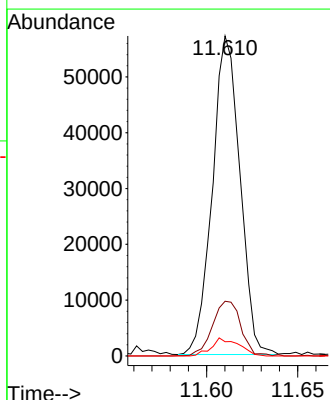
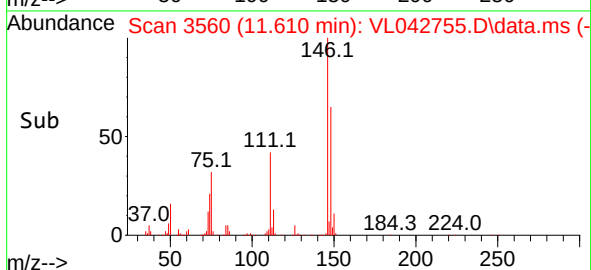
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

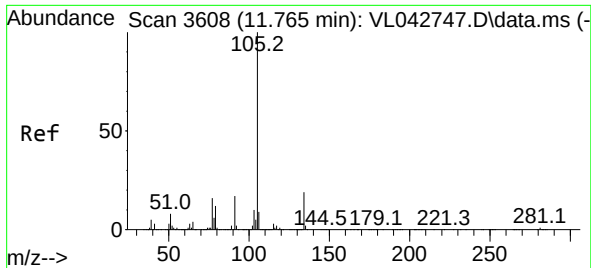


#66
Benzyl Chloride
Concen: 11.634 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



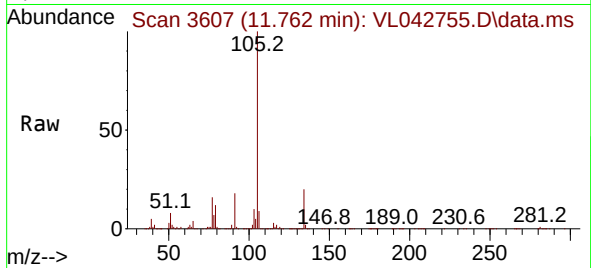
Tgt Ion: 91 Resp: 60055
Ion Ratio Lower Upper
91 100
126 17.7 14.4 21.6
128 5.6 5.2 7.8





#67
 sec-Butylbenzene
 Concen: 10.221 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

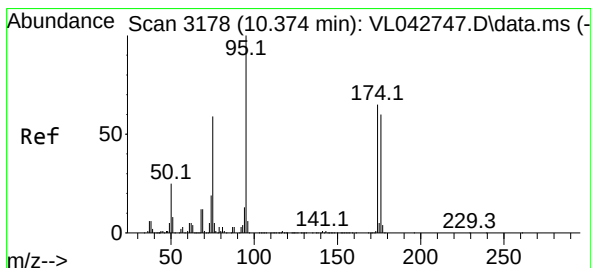
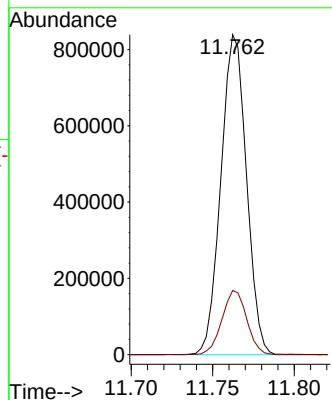
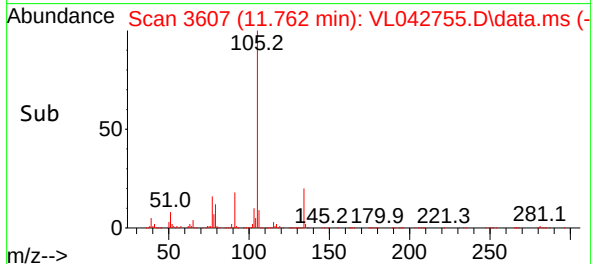
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325



Tgt Ion:105 Resp: 914040
 Ion Ratio Lower Upper
 105 100
 134 19.5 15.5 23.3

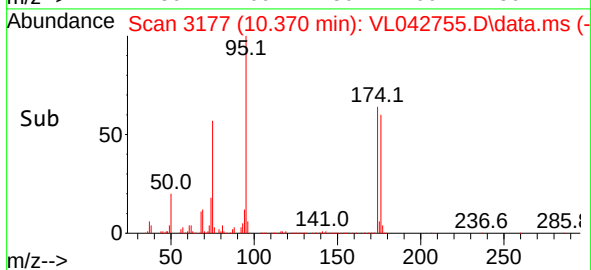
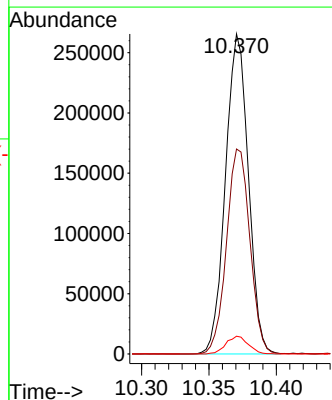
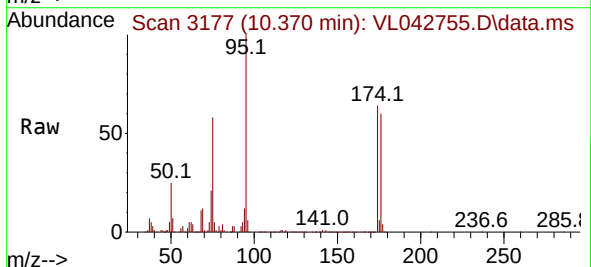
Manual Integrations
 APPROVED

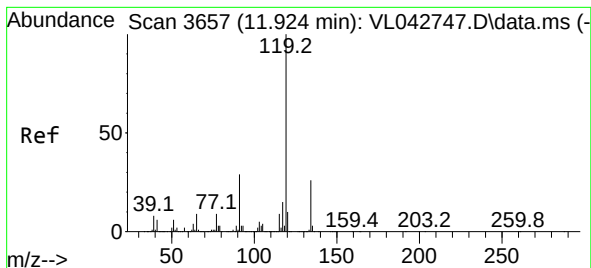
Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.397 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

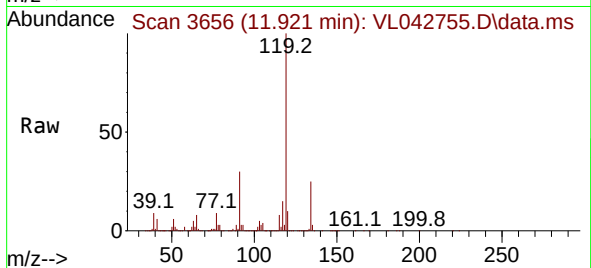
Tgt Ion: 95 Resp: 313324
 Ion Ratio Lower Upper
 95 100
 174 65.8 53.8 80.6
 175 5.4 4.0 6.0





#69
p-Isopropyltoluene
Concen: 10.677 ppbv
RT: 11.921 min Scan# 30
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

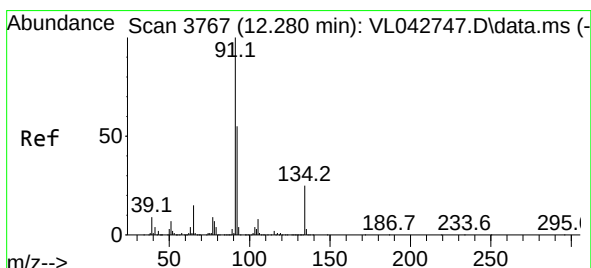
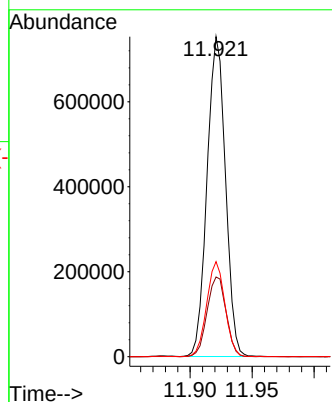
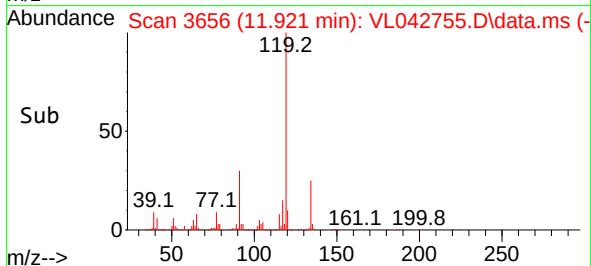
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



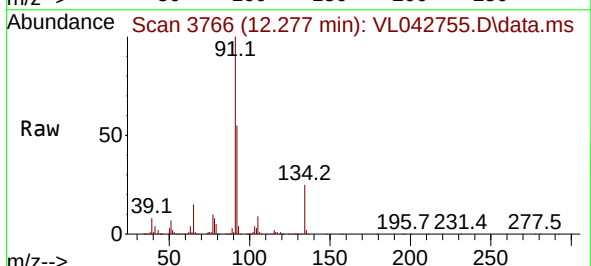
Tgt Ion:119 Resp: 77860
Ion Ratio Lower Upper
119 100
134 25.8 20.6 31.0
91 29.5 23.2 34.8

Manual Integrations
APPROVED

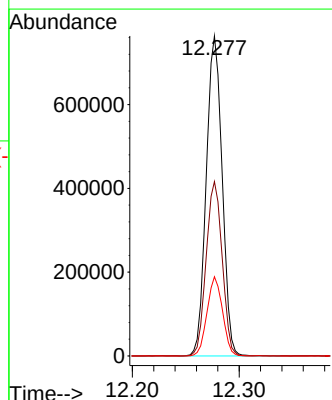
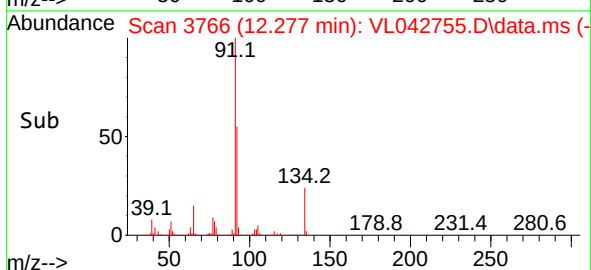
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

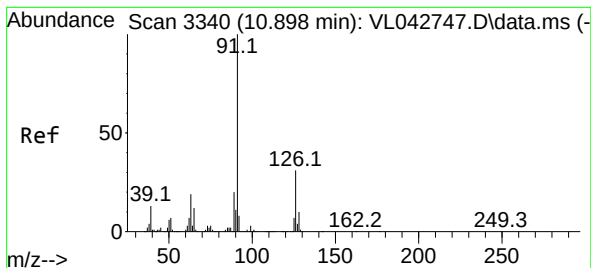


#70
n-Butylbenzene
Concen: 11.197 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



Tgt Ion: 91 Resp: 788734
Ion Ratio Lower Upper
91 100
92 55.0 43.4 65.2
134 24.1 19.6 29.4





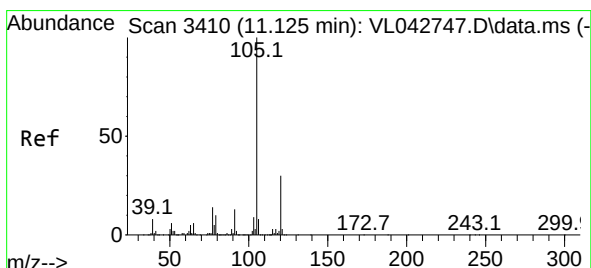
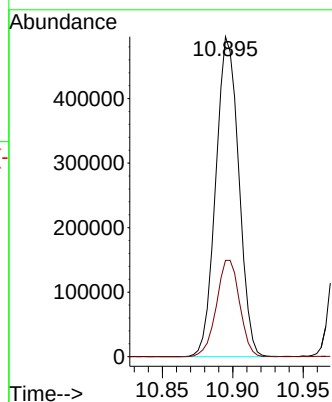
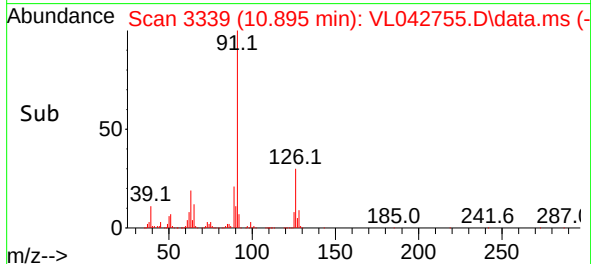
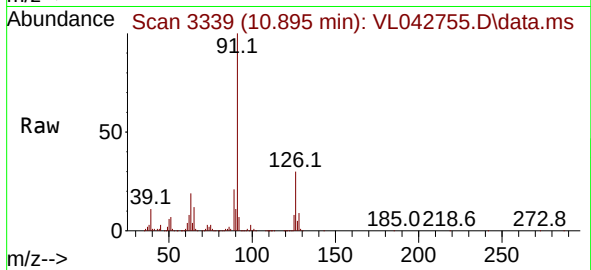
#71
2-Chlorotoluene
Concen: 10.376 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 91 Resp: 56319
Ion Ratio Lower Upper
91 100
126 30.4 12.0 48.2

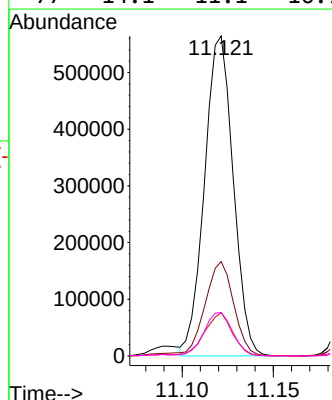
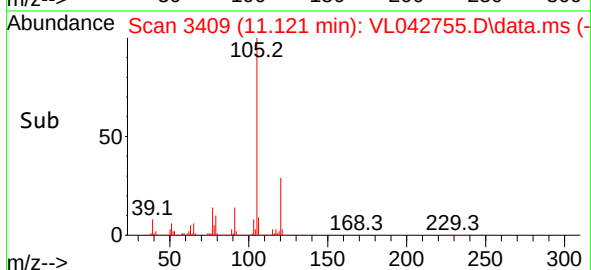
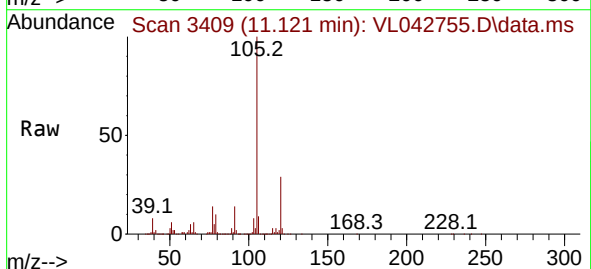
Manual Integrations
APPROVED

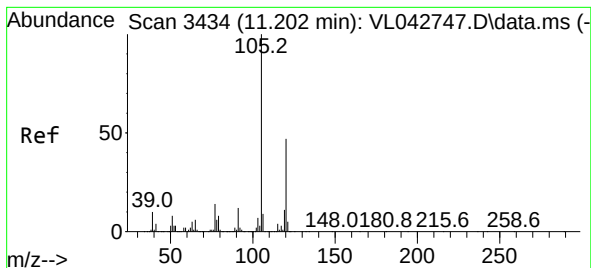
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#72
4-Ethyltoluene
Concen: 10.772 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 617355
Ion Ratio Lower Upper
105 100
120 30.2 24.4 36.6
91 13.4 10.6 15.8
77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.951 ppbv

RT: 11.199 min Scan# 3434

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

Tgt Ion:105 Resp: 516738

Ion Ratio Lower Upper

105 100

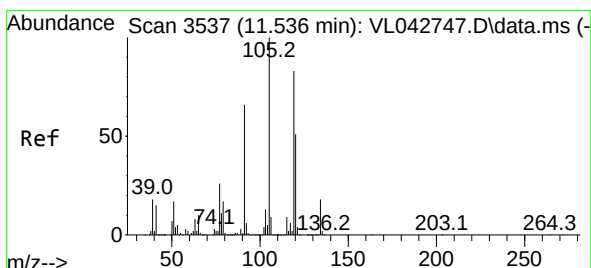
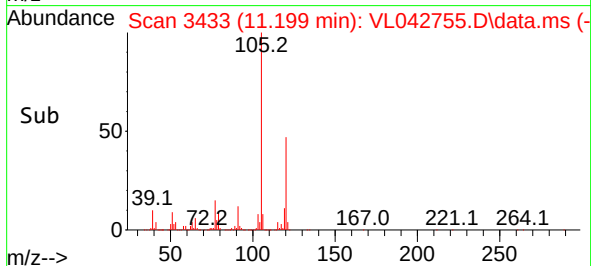
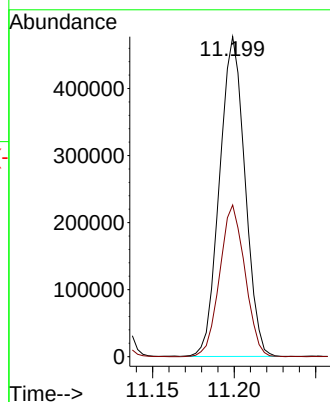
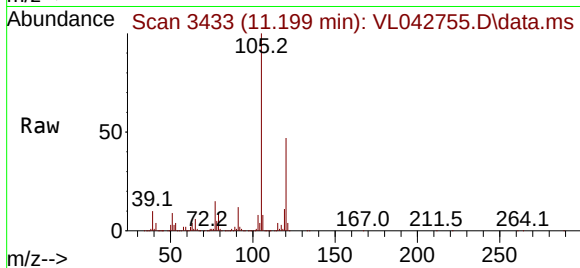
120 47.5 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#74

1,2,4-Trimethylbenzene

Concen: 11.017 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 567186

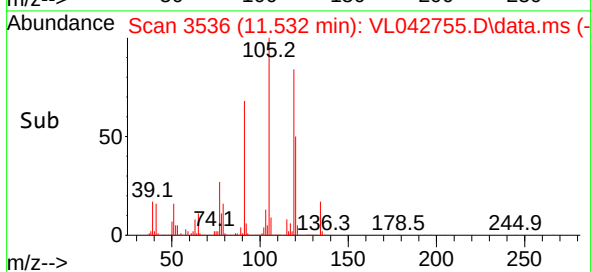
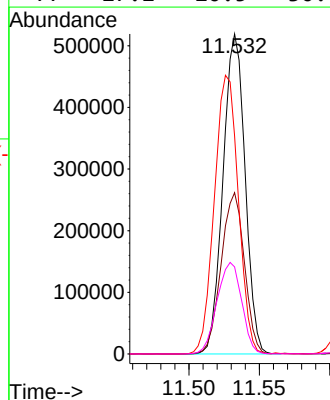
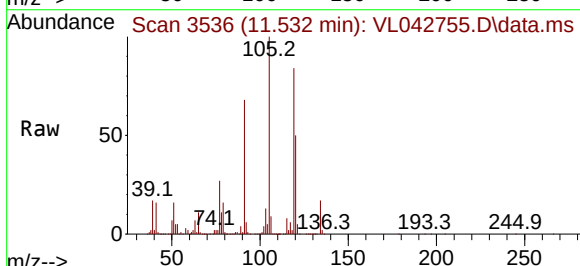
Ion Ratio Lower Upper

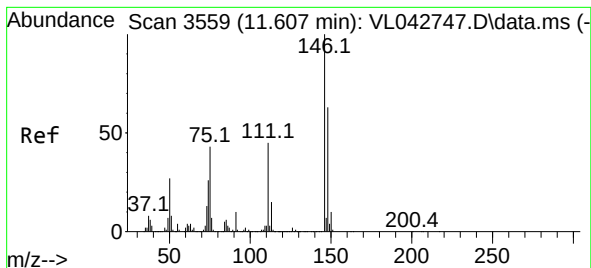
105 100

120 50.4 40.8 61.2

91 68.1 53.0 79.4

77 27.2 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 10.165 ppbv

RT: 11.604 min Scan# 3559

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

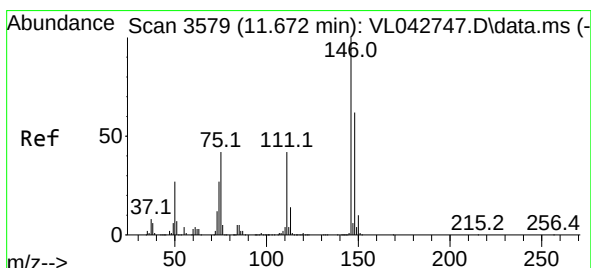
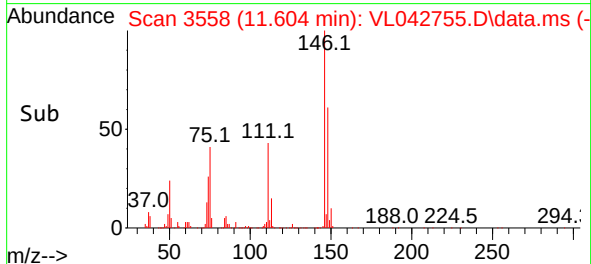
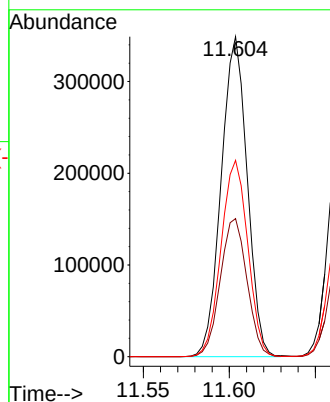
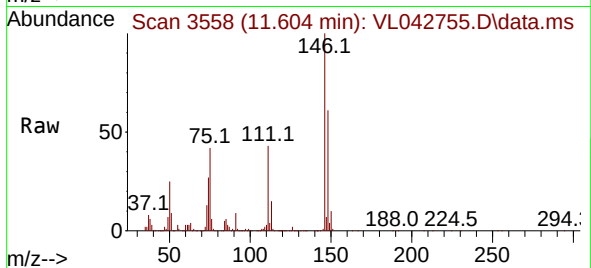
ICVVL072325

Tgt Ion:146 Resp: 36685
 Ion Ratio Lower Upper
 146 100
 111 44.3 22.7 68.0
 148 63.1 31.9 95.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



#76

1,4-Dichlorobenzene

Concen: 10.333 ppbv

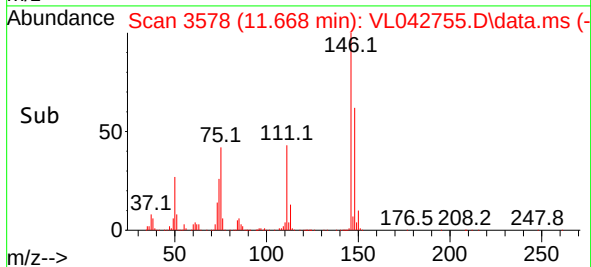
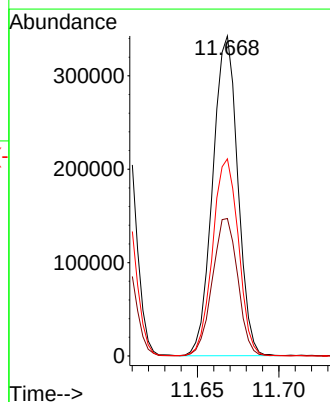
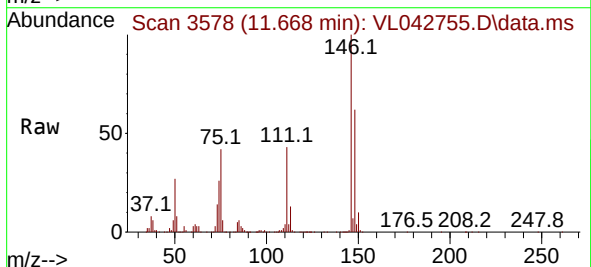
RT: 11.668 min Scan# 3578

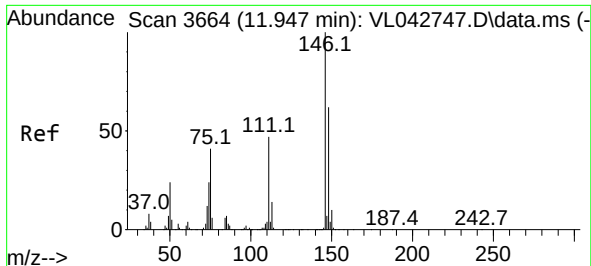
Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

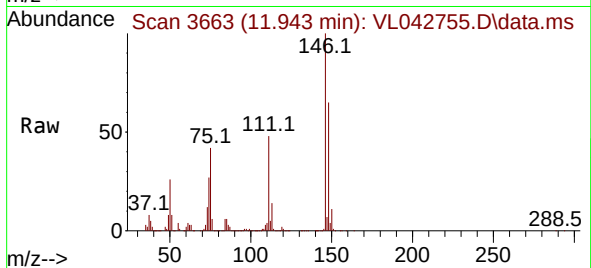
Tgt Ion:146 Resp: 364937
 Ion Ratio Lower Upper
 146 100
 111 43.9 21.4 64.2
 148 63.8 32.1 96.3





#77
1,2-Dichlorobenzene
Concen: 9.839 ppbv
RT: 11.943 min Scan# 30
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

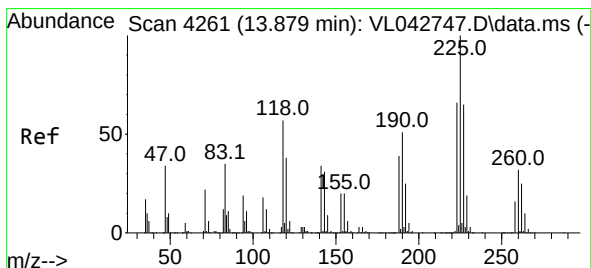
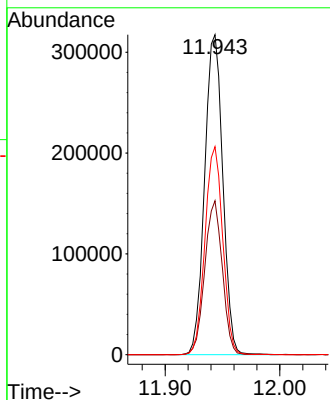
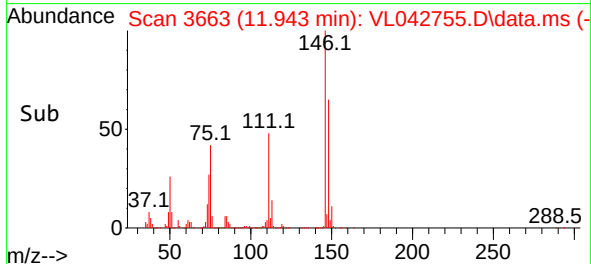
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



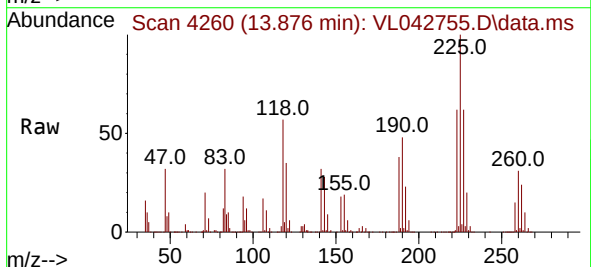
Tgt Ion:146 Resp: 348999
Ion Ratio Lower Upper
146 100
111 46.7 23.7 71.1
148 63.8 32.6 97.7

Manual Integrations
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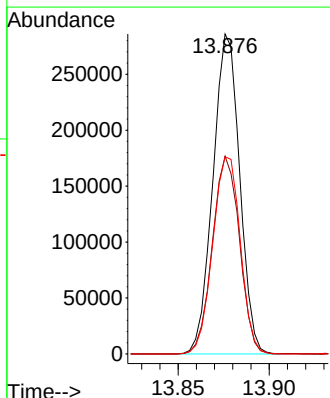
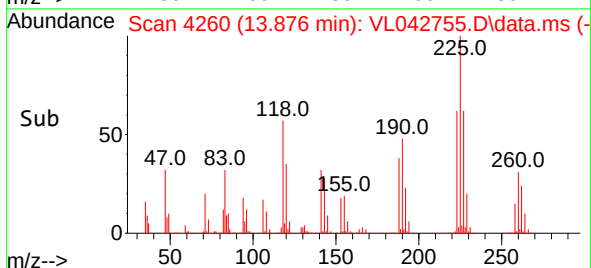
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

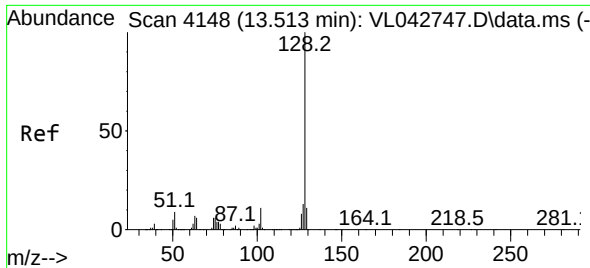


#78
Hexachloro-1,3-Butadiene
Concen: 9.091 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



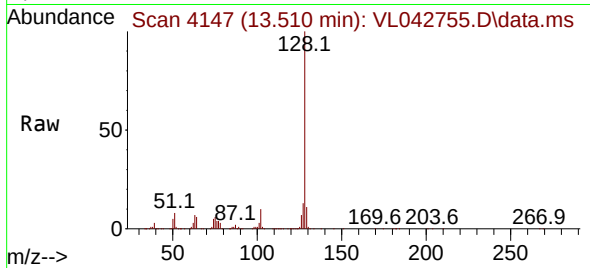
Tgt Ion:225 Resp: 291861
Ion Ratio Lower Upper
225 100
223 62.5 50.7 76.1
227 63.5 50.5 75.7





#79
Naphthalene
Concen: 10.342 ppbv
RT: 13.510 min Scan# 4148
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

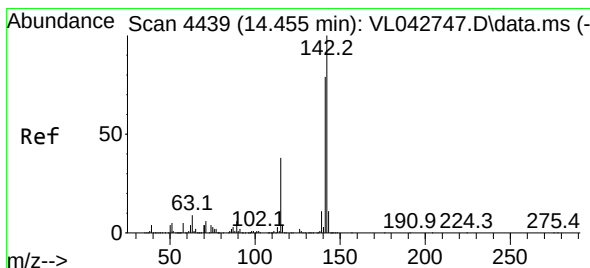
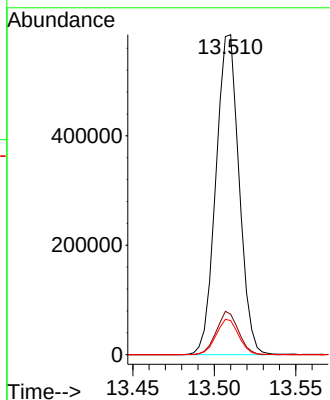
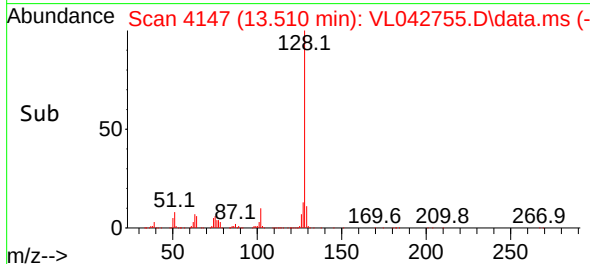
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325



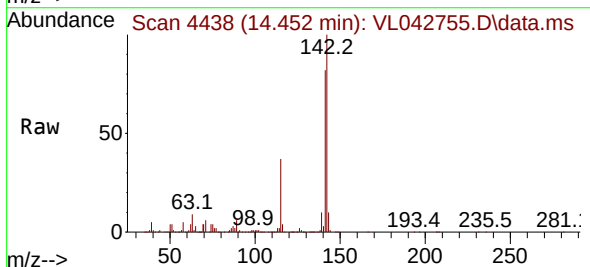
Tgt Ion:128 Resp: 57856
Ion Ratio Lower Upper
128 100
127 12.7 10.5 15.7
129 10.6 8.6 13.0

Manual Integrations
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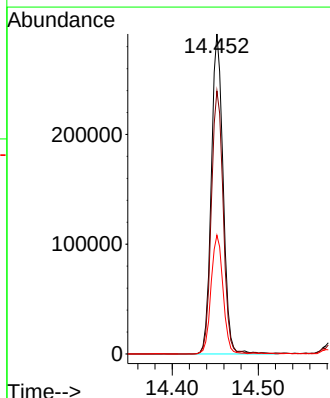
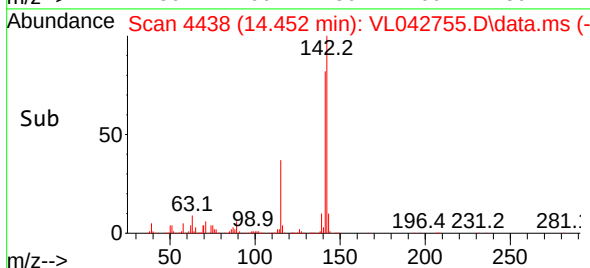
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

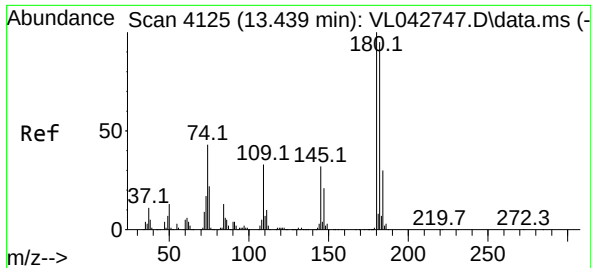


#80
Naphthalene,2-methyl-
Concen: 9.951 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33



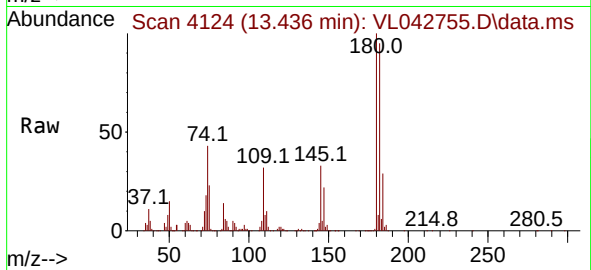
Tgt Ion:142 Resp: 277798
Ion Ratio Lower Upper
142 100
141 83.6 65.8 98.8
115 38.2 31.2 46.8





#81
 1,2,4-Trichlorobenzene
 Concen: 10.181 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

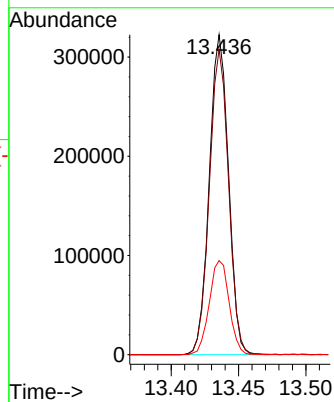
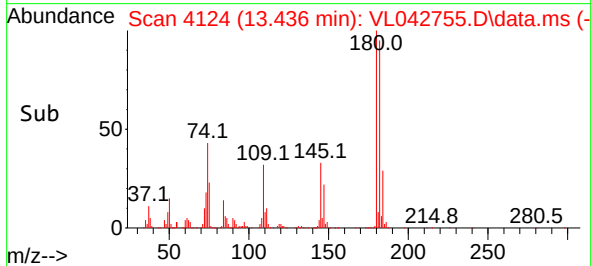
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325



Tgt Ion:180 Resp: 31989
 Ion Ratio Lower Upper
 180 100
 182 95.5 76.2 114.2
 184 30.5 24.8 37.2

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Quant Time: Jul 24 05:28:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2 T	Dichlorodifluoromethane	1.322	1.252	5.3	97	0.00
3	Chlorodifluoromethane	1.722	1.641	4.7	94	0.00
4	Chloromethane	0.535	0.488	8.8	94	0.00
5 T	Vinyl Chloride	0.528	0.437	17.2	99	0.00
6 T	Bromomethane	0.204	0.183	10.3	96	0.00
7	Chloroethane	0.204	0.176	13.7	93	0.00
8 T	Dichlorotetrafluoroethane	1.087	1.005	7.5	95	0.00
9 T	Propene	0.626	0.583	6.9	91	0.00
10 T	Heptane	1.688	1.675	0.8	95	0.00
11 T	Trichlorofluoromethane	1.363	1.213	11.0	92	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.036	0.934	9.8	92	0.00
13	Ethanol	0.083	0.052	37.3#	97	0.00
14 T	Bromoethene	0.367	0.331	9.8	91	0.00
15 T	Acetone	1.381	1.011	26.8	94	0.00
16 T	1,3-Butadiene	0.589	0.534	9.3	98	0.00
17	tert-Butyl alcohol	1.245	1.149	7.7	92	0.00
18 T	1,1-Dichloroethene	0.468	0.420	10.3	97	0.00
19 T	Isopropyl Alcohol	0.734	0.661	9.9	93	0.00
20 T	Methylene Chloride	0.435	0.362	16.8	100	0.00
21 T	Allyl Chloride	0.851	0.803	5.6	94	0.00
22 T	trans-1,2-Dichloroethene	0.503	0.469	6.8	95	0.00
23 T	Vinyl Acetate	1.674	1.769	-5.7	97	0.00
24 T	1,1-Dichloroethane	1.033	0.929	10.1	92	0.00
25 T	Ethyl Acetate	3.056	3.000	1.8	95	0.00
26 T	Hexane	1.341	1.287	4.0	93	0.00
27 T	Carbon Disulfide	1.148	1.108	3.5	95	0.00
28 T	Methyl tert-Butyl Ether	0.633	0.577	8.8	97	0.00
29 T	Chloroform	2.072	1.998	3.6	97	0.00
30 T	Cyclohexane	1.137	1.111	2.3	92	0.00
31 T	cis-1,2-Dichloroethene	1.378	1.351	2.0	96	0.00
32 T	1,1,1-Trichloroethane	2.158	1.979	8.3	94	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.708	0.699	1.3	96	0.00
35 T	Carbon Tetrachloride	0.743	0.735	1.1	96	0.00
36 T	Benzene	0.948	0.932	1.7	95	0.00
37 T	1,2-Dichloroethane	0.571	0.565	1.1	96	0.00
38 T	Trichloroethene	0.455	0.423	7.0	95	0.00
39 T	1,2-Dichloropropane	0.350	0.335	4.3	94	0.00
40 T	1,4-Dioxane	0.163	0.155	4.9	100	0.00
41 T	Tetrahydrofuran	0.360	0.375	-4.2	95	0.00
42 T	Bromodichloromethane	0.744	0.762	-2.4	96	0.00
43	Methyl Methacrylate	0.337	0.362	-7.4	95	0.00
44 T	2,2,4-Trimethylpentane	1.545	1.541	0.3	94	0.00
45 T	t-1,3-Dichloropropene	0.378	0.402	-6.3	91	0.00
46 T	cis-1,3-Dichloropropene	0.479	0.511	-6.7	92	0.00
47 T	1,1,2-Trichloroethane	0.373	0.367	1.6	97	-0.02
48 T	Dibromochloromethane	0.592	0.619	-4.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Quant Time: Jul 24 05:28:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	0.516	0.554	-7.4	95	0.00
50 T	4-Methyl-2-Pentanone	0.912	0.940	-3.1	96	0.00
51 T	2-Hexanone	0.690	0.761	-10.3	95	0.00
52 T	Tetrachloroethene	0.393	0.360	8.4	97	0.00
53 T	Toluene	1.018	1.048	-2.9	93	0.00
54 T	1,2-Dibromoethane	0.527	0.544	-3.2	96	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.520	0.507	2.5	95	0.00
57 T	Chlorobenzene	0.968	0.931	3.8	95	0.00
58 T	Ethyl Benzene	1.579	1.659	-5.1	96	0.00
59 T	m/p-Xylene	1.262	1.335	-5.8	97	0.00
60 T	o-Xylene	1.261	1.324	-5.0	97	0.00
61 T	Styrene	0.531	0.593	-11.7	95	0.00
62	Isopropylbenzene	1.860	1.934	-4.0	97	0.00
63 T	1,1,2,2-Tetrachloroethane	0.810	0.756	6.7	98	0.00
64	n-propylbenzene	0.485	0.507	-4.5	97	0.00
65	tert-Butylbenzene	1.652	1.737	-5.1	97	0.00
66 T	Benzyl Chloride	0.136	0.158	-16.2	90	0.00
67	sec-Butylbenzene	2.350	2.402	-2.2	97	0.00
68 S	1-Bromo-4-Fluorobenzene	0.792	0.823	-3.9	93	0.00
69	p-Isopropyltoluene	1.916	2.046	-6.8	96	0.00
70	n-Butylbenzene	1.851	2.073	-12.0	96	0.00
71	2-Chlorotoluene	1.426	1.480	-3.8	96	0.00
72 T	4-Ethyltoluene	1.506	1.622	-7.7	96	0.00
73 T	1,3,5-Trimethylbenzene	1.240	1.358	-9.5	96	0.00
74 T	1,2,4-Trimethylbenzene	1.353	1.490	-10.1	97	0.00
75 T	1,3-Dichlorobenzene	0.948	0.964	-1.7	98	0.00
76 T	1,4-Dichlorobenzene	0.928	0.959	-3.3	97	0.00
77 T	1,2-Dichlorobenzene	0.932	0.917	1.6	97	0.00
78 T	Hexachloro-1,3-Butadiene	0.844	0.767	9.1	97	0.00
79 T	Naphthalene	0.958	1.520	-58.7#	97	0.00
80 T	Naphthalene,2-methyl-	0.326	0.730	-123.9#	96	0.00
81 T	1,2,4-Trichlorobenzene	0.635	0.841	-32.4#	95	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Quant Time: Jul 24 05:28:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	93	0.00
2 T	Dichlorodifluoromethane	10.000	9.472	5.3	97	0.00
3	Chlorodifluoromethane	10.000	9.525	4.7	94	0.00
4	Chloromethane	10.000	9.119	8.8	94	0.00
5 T	Vinyl Chloride	10.000	8.265	17.3	99	0.00
6 T	Bromomethane	10.000	8.957	10.4	96	0.00
7	Chloroethane	10.000	8.641	13.6	93	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.244	7.6	95	0.00
9 T	Propene	10.000	9.316	6.8	91	0.00
10 T	Heptane	10.000	9.921	0.8	95	0.00
11 T	Trichlorofluoromethane	10.000	8.902	11.0	92	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.023	9.8	92	0.00
13	Ethanol	10.000	10.243	-2.4	97	0.00
14 T	Bromoethene	10.000	9.020	9.8	91	0.00
15 T	Acetone	10.000	7.324	26.8	94	0.00
16 T	1,3-Butadiene	10.000	9.072	9.3	98	0.00
17	tert-Butyl alcohol	10.000	9.225	7.8	92	0.00
18 T	1,1-Dichloroethene	10.000	8.970	10.3	97	0.00
19 T	Isopropyl Alcohol	10.000	9.006	9.9	93	0.00
20 T	Methylene Chloride	10.000	8.320	16.8	100	0.00
21 T	Allyl Chloride	10.000	9.441	5.6	94	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.322	6.8	95	0.00
23 T	Vinyl Acetate	10.000	10.568	-5.7	97	0.00
24 T	1,1-Dichloroethane	10.000	8.993	10.1	92	0.00
25 T	Ethyl Acetate	10.000	9.816	1.8	95	0.00
26 T	Hexane	10.000	9.597	4.0	93	0.00
27 T	Carbon Disulfide	10.000	9.652	3.5	95	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.114	8.9	97	0.00
29 T	Chloroform	10.000	9.643	3.6	97	0.00
30 T	Cyclohexane	10.000	9.773	2.3	92	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.802	2.0	96	0.00
32 T	1,1,1-Trichloroethane	10.000	9.172	8.3	94	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	91	0.00
34 T	2-Butanone	10.000	9.869	1.3	96	0.00
35 T	Carbon Tetrachloride	10.000	9.900	1.0	96	0.00
36 T	Benzene	10.000	9.834	1.7	95	0.00
37 T	1,2-Dichloroethane	10.000	9.895	1.1	96	0.00
38 T	Trichloroethene	10.000	9.301	7.0	95	0.00
39 T	1,2-Dichloropropane	10.000	9.578	4.2	94	0.00
40 T	1,4-Dioxane	10.000	9.481	5.2	100	0.00
41 T	Tetrahydrofuran	10.000	10.404	-4.0	95	0.00
42 T	Bromodichloromethane	10.000	10.254	-2.5	96	0.00
43	Methyl Methacrylate	10.000	10.738	-7.4	95	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.973	0.3	94	0.00
45 T	t-1,3-Dichloropropene	10.000	10.643	-6.4	91	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.679	-6.8	92	0.00
47 T	1,1,2-Trichloroethane	10.000	9.848	1.5	97	-0.02
48 T	Dibromochloromethane	10.000	10.460	-4.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Quant Time: Jul 24 05:28:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	10.729	-7.3	95	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.303	-3.0	96	0.00
51 T	2-Hexanone	10.000	11.029	-10.3	95	0.00
52 T	Tetrachloroethene	10.000	9.163	8.4	97	0.00
53 T	Toluene	10.000	10.294	-2.9	93	0.00
54 T	1,2-Dibromoethane	10.000	10.331	-3.3	96	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.759	2.4	95	0.00
57 T	Chlorobenzene	10.000	9.623	3.8	95	0.00
58 T	Ethyl Benzene	10.000	10.504	-5.0	96	0.00
59 T	m/p-Xylene	20.000	21.160	-5.8	97	0.00
60 T	o-Xylene	10.000	10.499	-5.0	97	0.00
61 T	Styrene	10.000	11.185	-11.9	95	0.00
62	Isopropylbenzene	10.000	10.398	-4.0	97	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.340	6.6	98	0.00
64	n-propylbenzene	10.000	10.460	-4.6	97	0.00
65	tert-Butylbenzene	10.000	10.512	-5.1	97	0.00
66 T	Benzyl Chloride	10.000	11.634	-16.3	90	0.00
67	sec-Butylbenzene	10.000	10.221	-2.2	97	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.397	-4.0	93	0.00
69	p-Isopropyltoluene	10.000	10.677	-6.8	96	0.00
70	n-Butylbenzene	10.000	11.197	-12.0	96	0.00
71	2-Chlorotoluene	10.000	10.376	-3.8	96	0.00
72 T	4-Ethyltoluene	10.000	10.772	-7.7	96	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.951	-9.5	96	0.00
74 T	1,2,4-Trimethylbenzene	10.000	11.017	-10.2	97	0.00
75 T	1,3-Dichlorobenzene	10.000	10.165	-1.6	98	0.00
76 T	1,4-Dichlorobenzene	10.000	10.333	-3.3	97	0.00
77 T	1,2-Dichlorobenzene	10.000	9.839	1.6	97	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.091	9.1	97	0.00
79 T	Naphthalene	10.000	10.342	-3.4	97	0.00
80 T	Naphthalene,2-methyl-	10.000	9.951	0.5	96	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.181	-1.8	95	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

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)		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)		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)		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)		n-propylbenzene			0.570	0.528	0.549	0.475	0.472	0.519	8.47
65)		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)		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)		p-Isopropyltol...			2.338	2.372	2.328	1.905	1.856	2.160	11.85
70)		n-Butylbenzene			2.234	2.303	2.333	1.927	1.915	2.142	9.58
71)		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

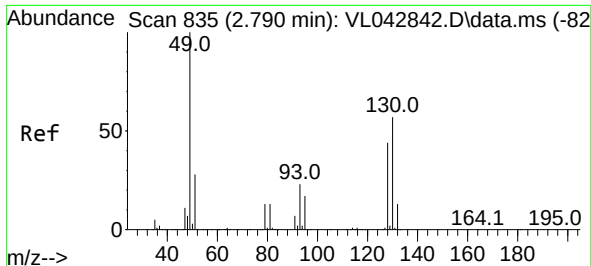
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

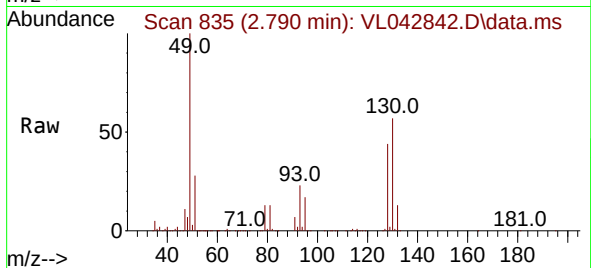
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	222921	9.635	ppbv	100
47) 1,1,2-Trichloroethane	6.590	97	141105	9.215	ppbv	100
48) Dibromochloromethane	7.396	129	241553	9.739	ppbv	100
49) Bromoform	9.490	173	202975	9.923	ppbv	100
50) 4-Methyl-2-Pentanone	5.761	43	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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

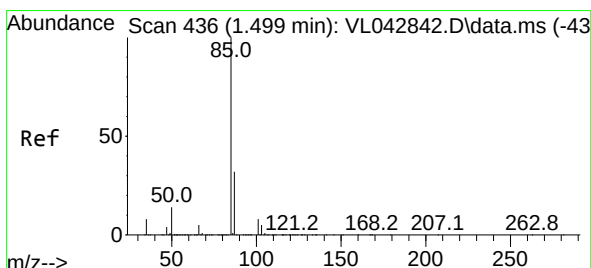
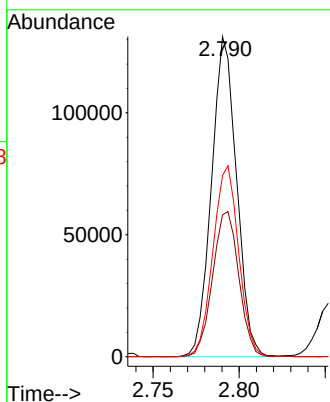
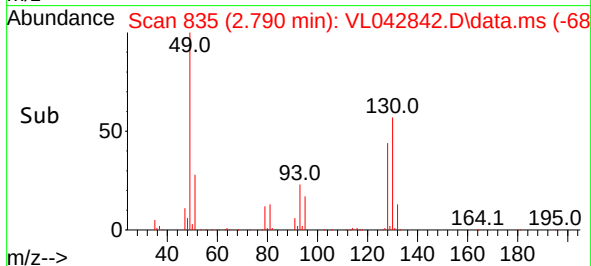
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 49 Resp: 133104
Ion Ratio Lower Upper
49 100
128 47.4 23.7 71.1
130 61.1 30.6 91.6

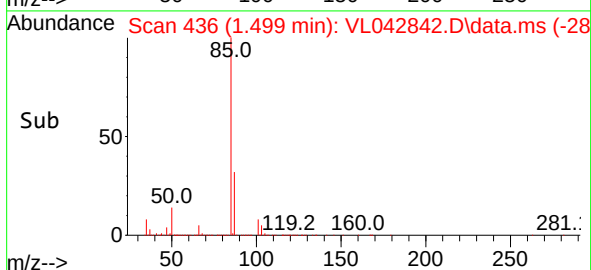
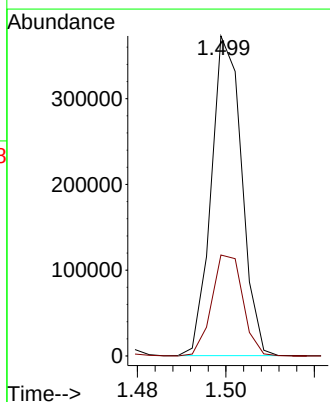
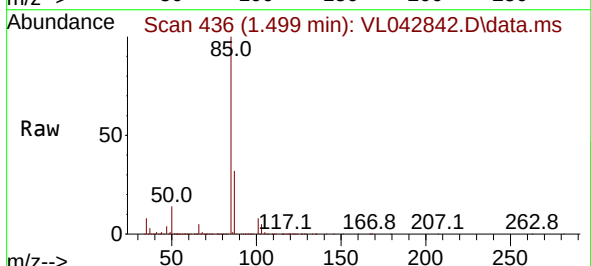
Manual Integrations
APPROVED

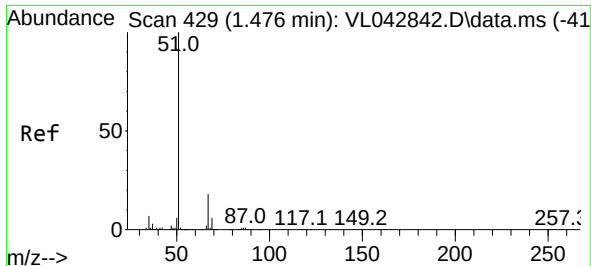
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#2
Dichlorodifluoromethane
Concen: 9.166 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

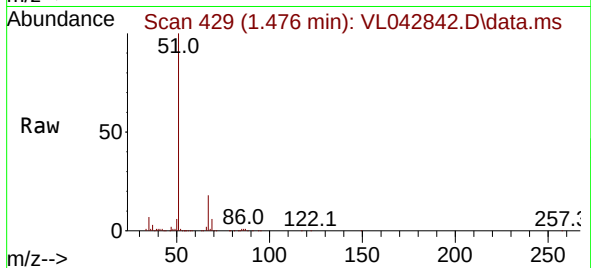
Tgt Ion: 85 Resp: 178799
Ion Ratio Lower Upper
85 100
87 31.6 25.3 37.9





#3
Chlorodifluoromethane
Concen: 9.306 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

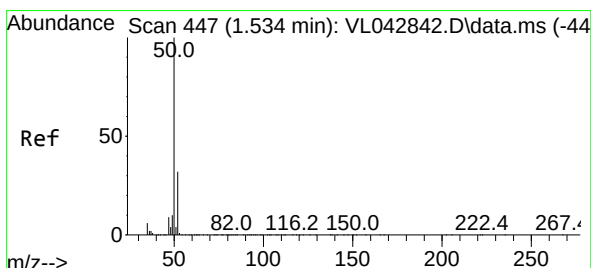
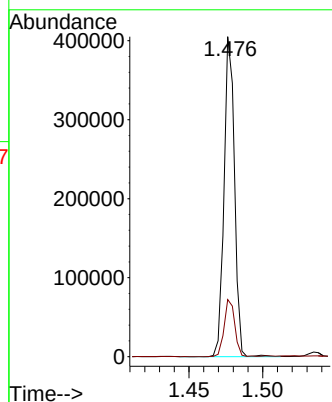
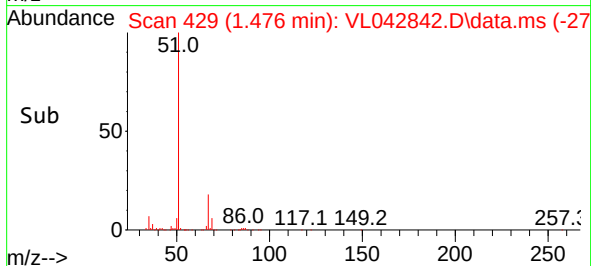
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



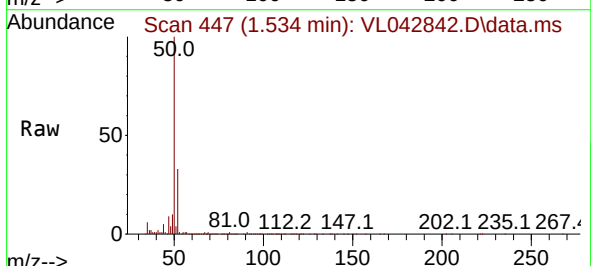
Tgt Ion: 51 Resp: 200860
Ion Ratio Lower Upper
51 100
67 18.6 14.9 22.3

Manual Integrations
APPROVED

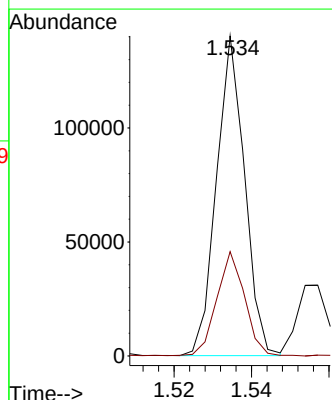
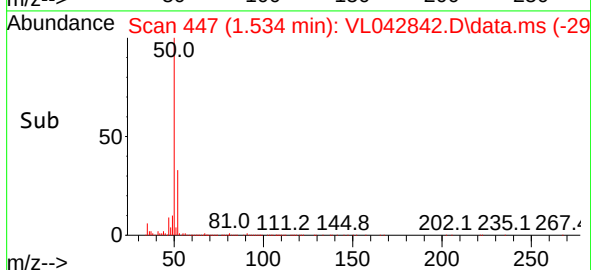
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

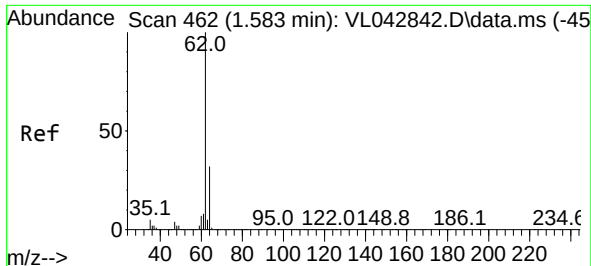


#4
Chloromethane
Concen: 9.013 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



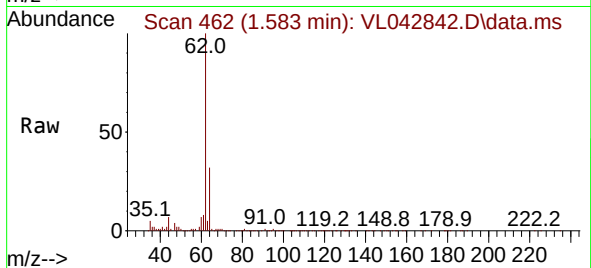
Tgt Ion: 50 Resp: 70952
Ion Ratio Lower Upper
50 100
52 32.4 25.9 38.9





#5
 Vinyl Chloride
 Concen: 8.612 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

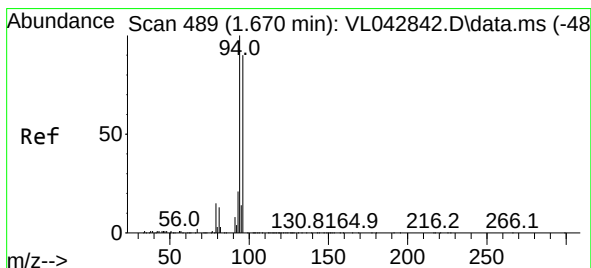
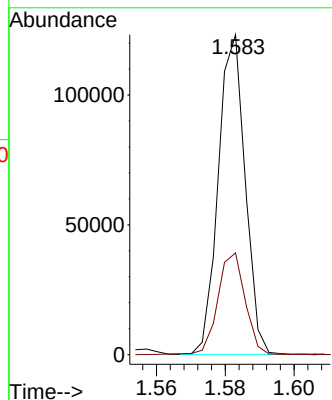
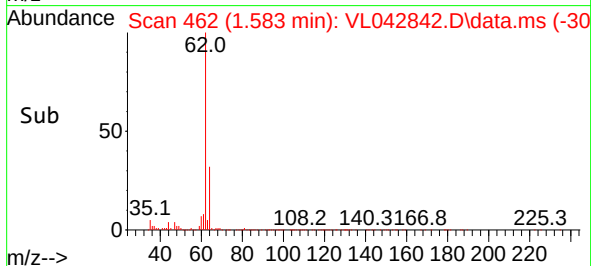
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



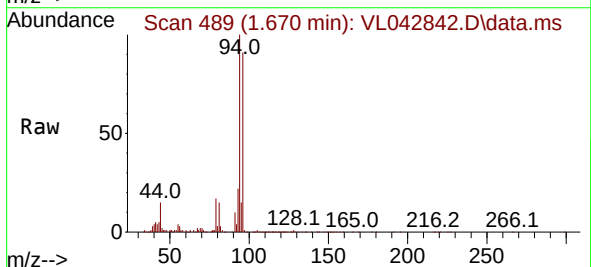
Tgt Ion: 62 Resp: 66768
 Ion Ratio Lower Upper
 62 100
 64 31.8 25.4 38.2

Manual Integrations
 APPROVED

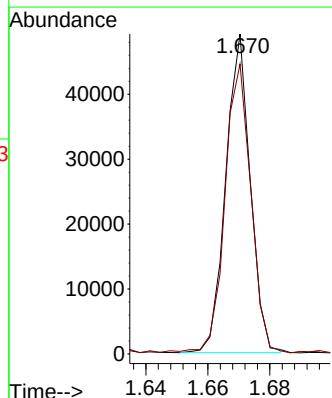
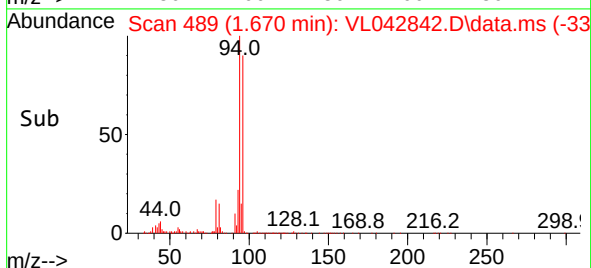
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

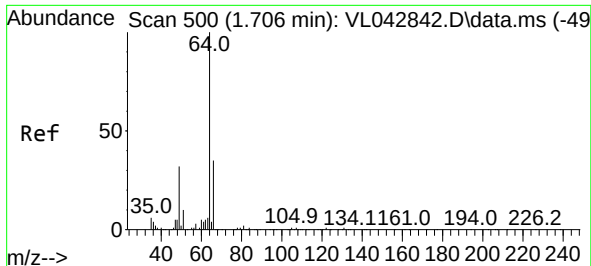


#6
 Bromomethane
 Concen: 8.698 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



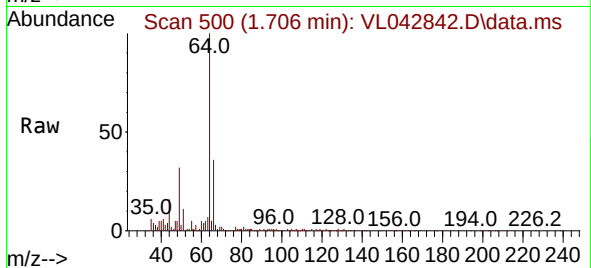
Tgt Ion: 94 Resp: 26964
 Ion Ratio Lower Upper
 94 100
 96 90.1 72.1 108.1





#7
Chloroethane
Concen: 8.879 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

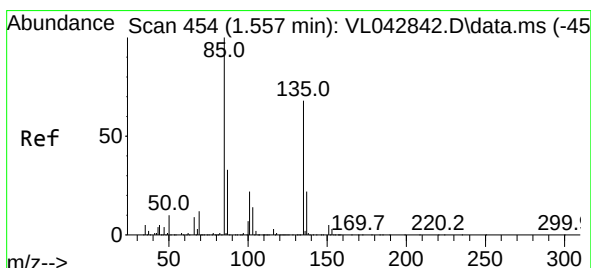
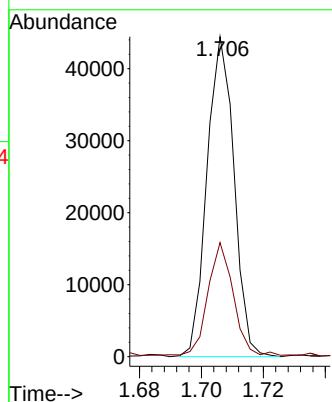
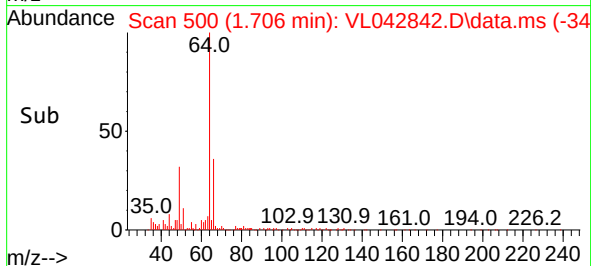
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



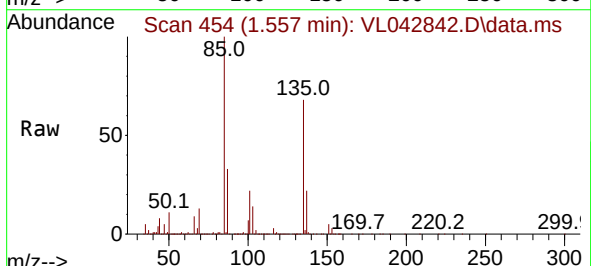
Tgt Ion: 64 Resp: 26884
Ion Ratio Lower Upper
64 100
66 35.7 28.6 42.8

Manual Integrations
APPROVED

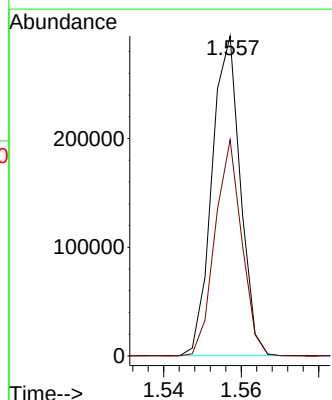
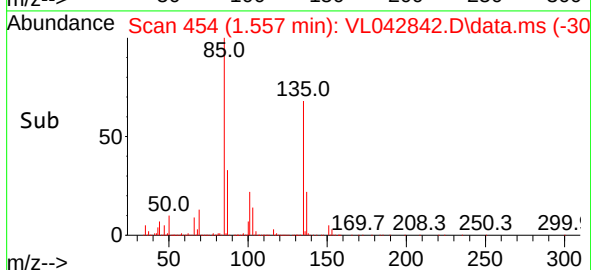
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

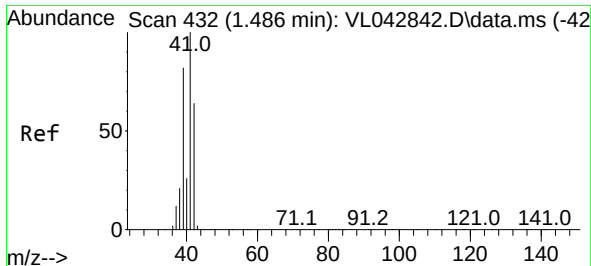


#8
Dichlorotetrafluoroethane
Concen: 9.355 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



Tgt Ion: 85 Resp: 149341
Ion Ratio Lower Upper
85 100
135 64.0 51.2 76.8





#9

Propene

Concen: 9.380 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 41 Resp: 87352

Ion Ratio Lower Upper

41 100

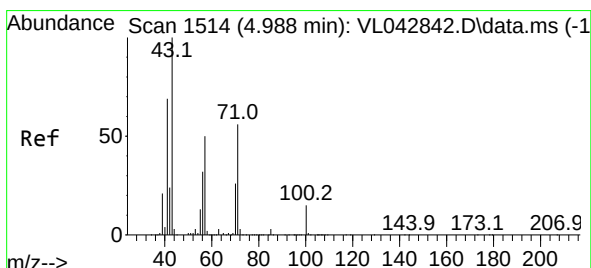
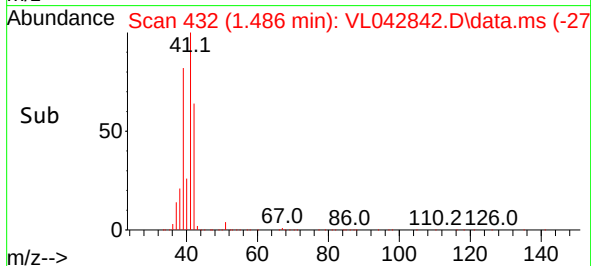
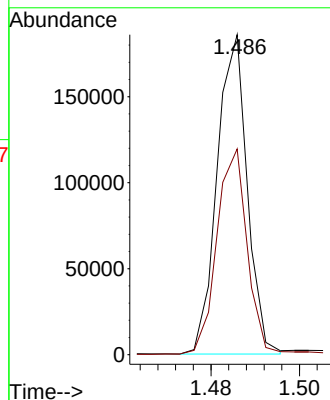
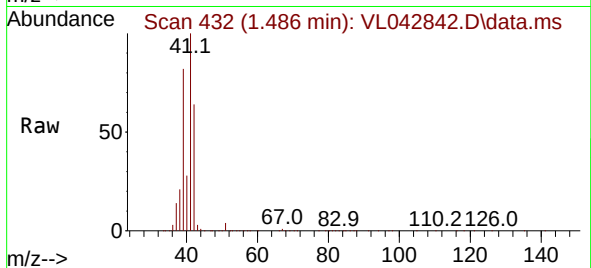
42 66.2 53.0 79.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#10

Heptane

Concen: 9.186 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.000 min

Lab File: VL042842.D

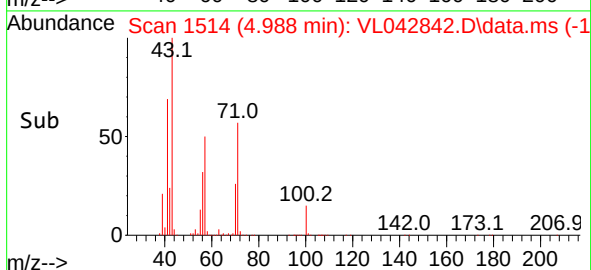
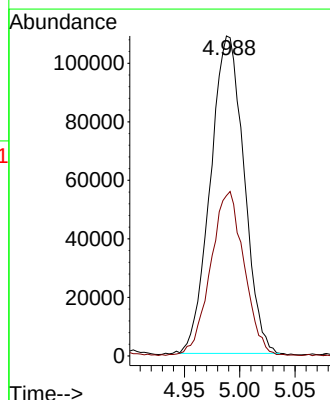
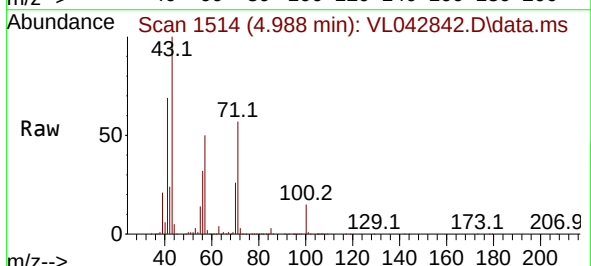
Acq: 13 Aug 2025 08:30

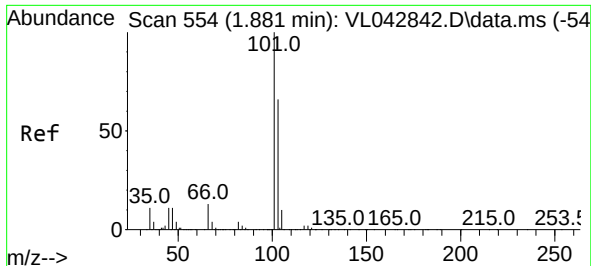
Tgt Ion: 43 Resp: 228679

Ion Ratio Lower Upper

43 100

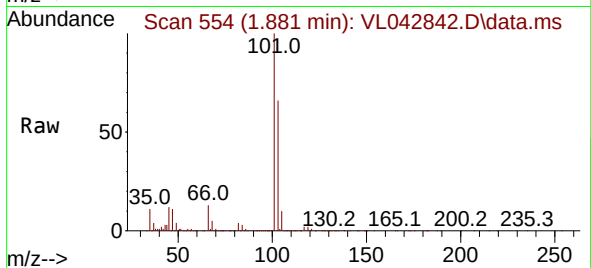
57 51.7 41.4 62.0





#11
 Trichlorofluoromethane
 Concen: 8.789 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

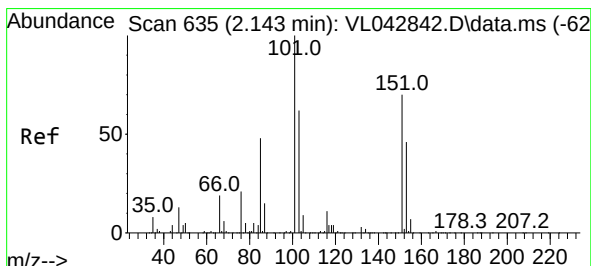
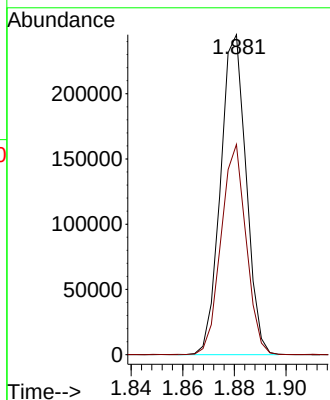
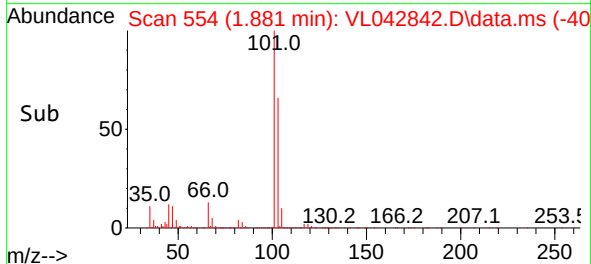
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



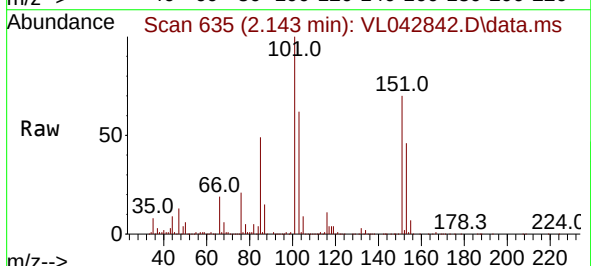
Tgt Ion:101 Resp: 16915
 Ion Ratio Lower Upper
 101 100
 103 65.6 52.5 78.7

Manual Integrations
 APPROVED

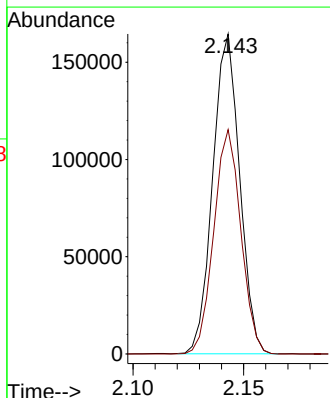
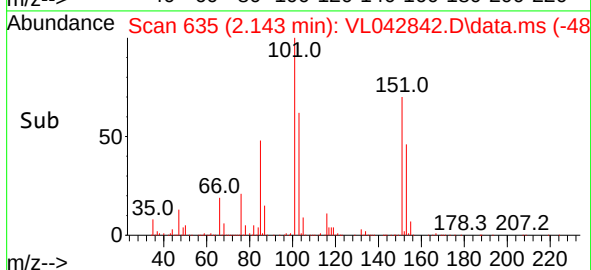
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

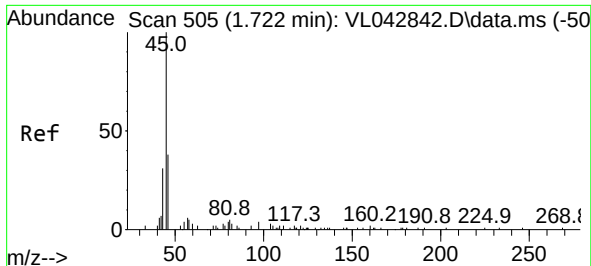


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.083 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



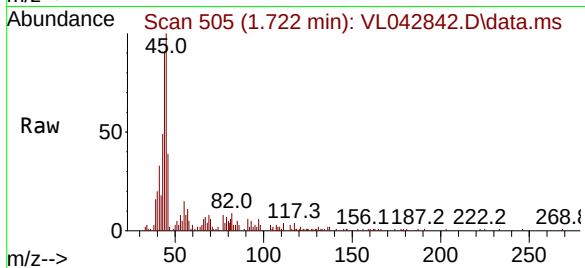
Tgt Ion:101 Resp: 139340
 Ion Ratio Lower Upper
 101 100
 151 70.5 56.4 84.6





#13
Ethanol
Concen: 6.690 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

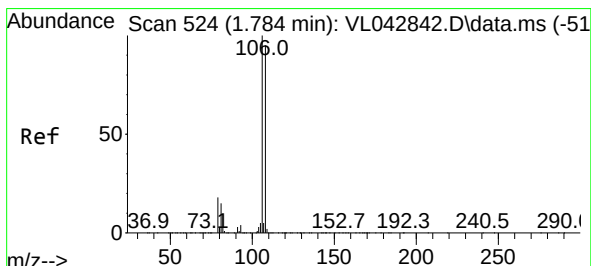
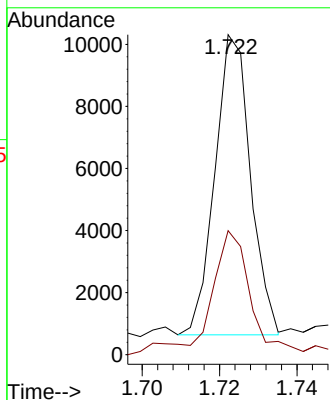
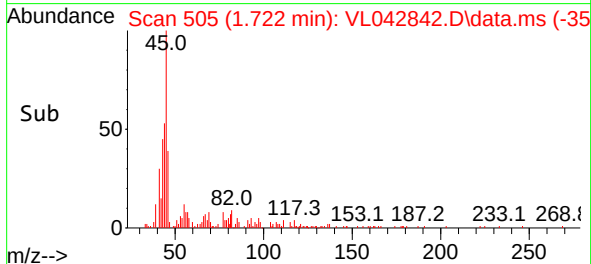
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



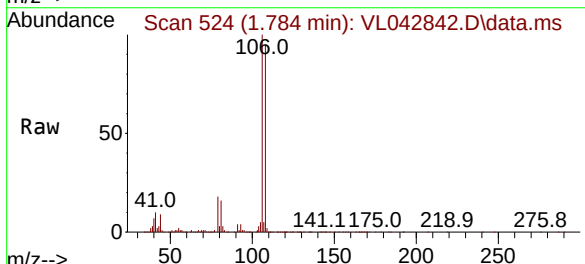
Tgt Ion: 45 Resp: 6172
Ion Ratio Lower Upper
45 100
46 43.7 17.5 69.9

Manual Integrations
APPROVED

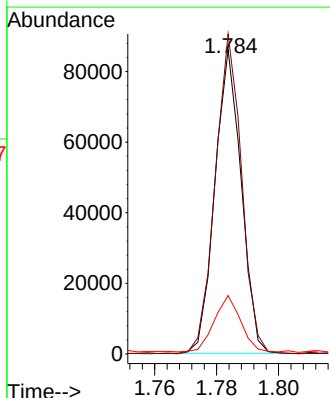
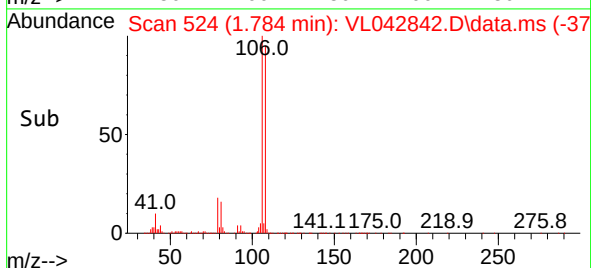
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

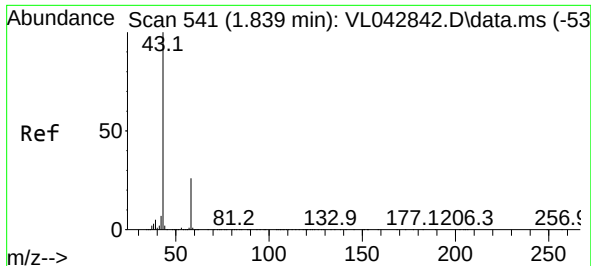


#14
Bromoethene
Concen: 9.135 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



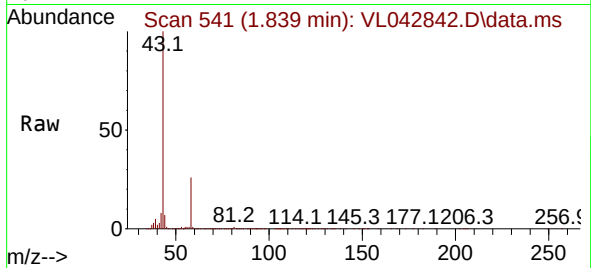
Tgt Ion:108 Resp: 50730
Ion Ratio Lower Upper
108 100
106 106.4 85.1 127.7
79 20.4 16.3 24.5





#15
Acetone
Concen: 7.180 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

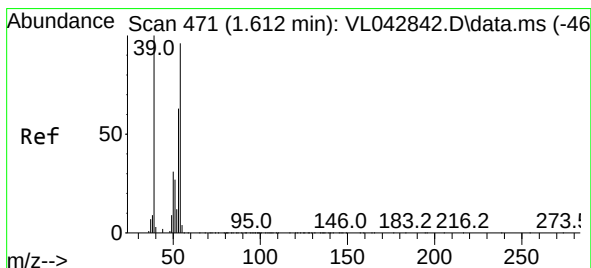
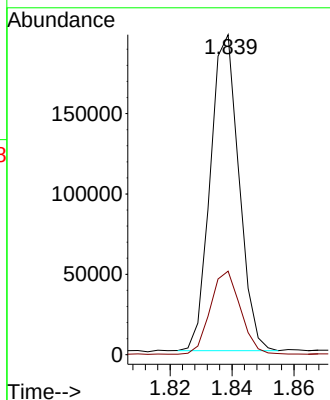
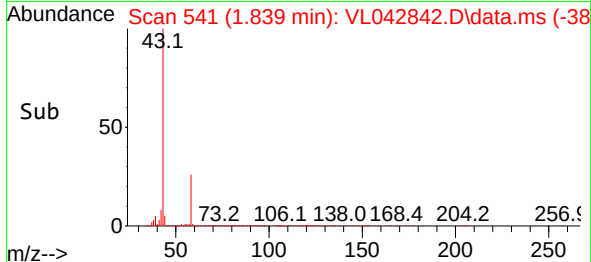
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



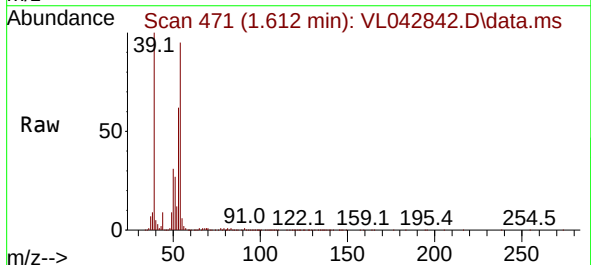
Tgt Ion: 43 Resp: 126419
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6

Manual Integrations
APPROVED

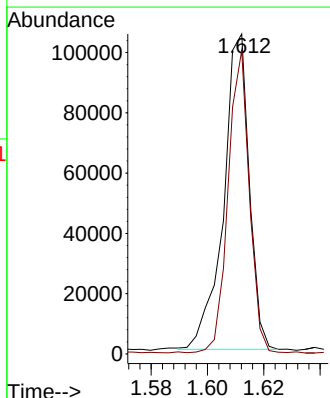
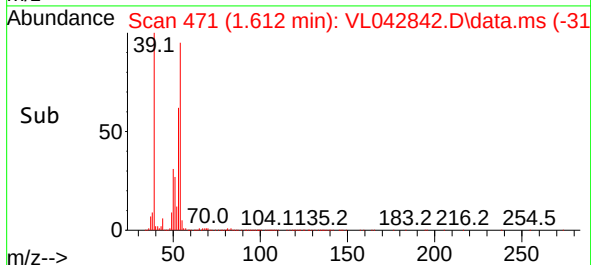
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

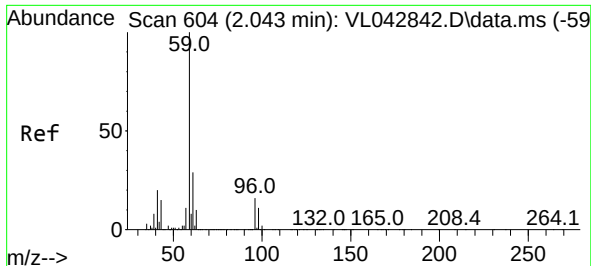


#16
1,3-Butadiene
Concen: 8.343 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



Tgt Ion: 39 Resp: 66595
Ion Ratio Lower Upper
39 100
54 79.5 63.6 95.4





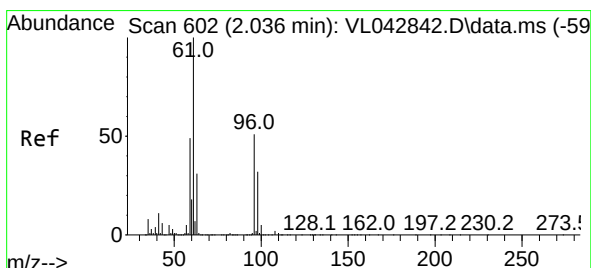
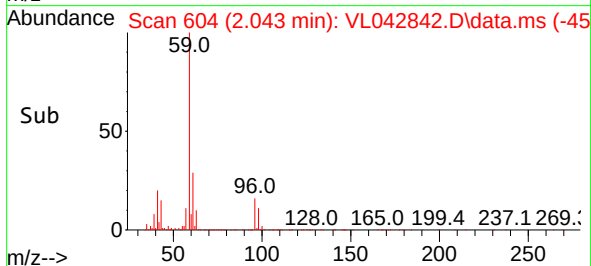
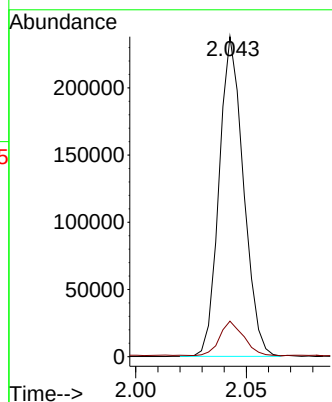
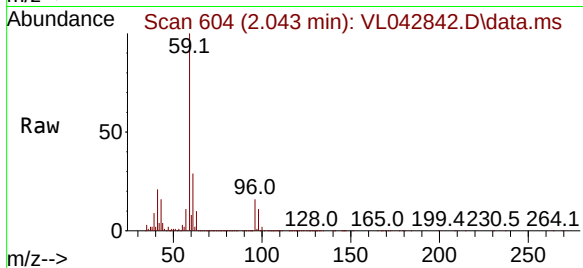
#17
tert-Butyl alcohol
Concen: 8.741 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

Tgt Ion: 59 Resp: 18251
Ion Ratio Lower Upper
59 100
57 11.2 9.0 13.4

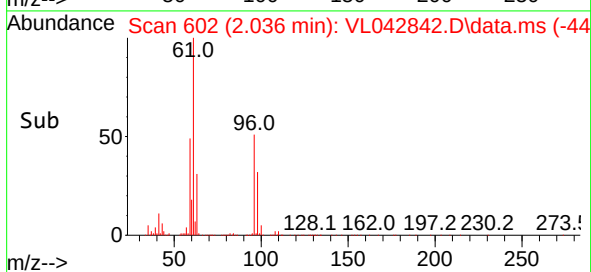
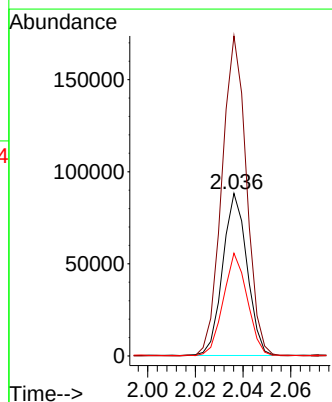
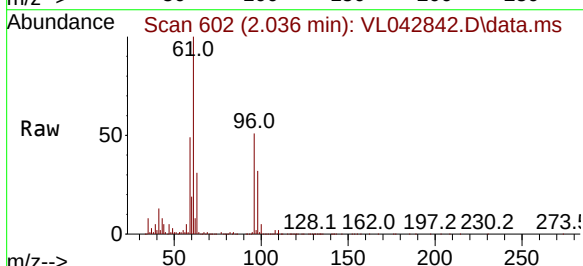
Manual Integrations
APPROVED

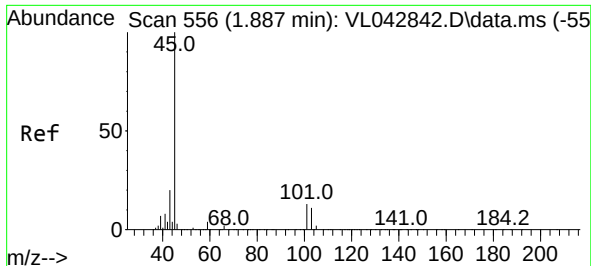
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#18
1,1-Dichloroethene
Concen: 9.252 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 96 Resp: 62397
Ion Ratio Lower Upper
96 100
61 197.8 158.2 237.4
98 63.3 50.6 76.0





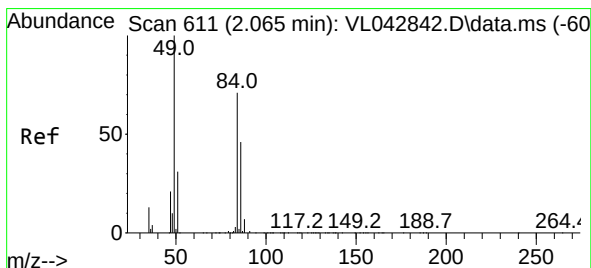
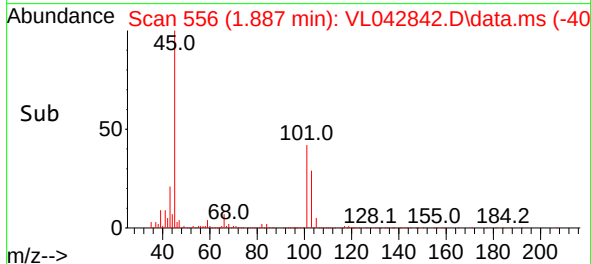
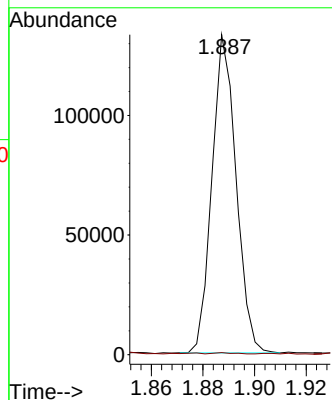
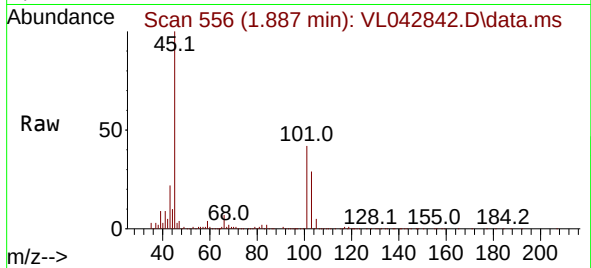
#19
Isopropyl Alcohol
Concen: 8.213 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 8636
Ion Ratio Lower Upper
45 100
58 40.9 32.7 49.1

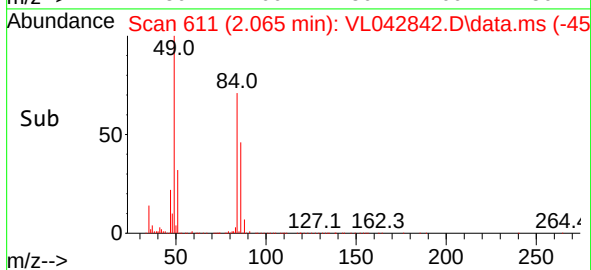
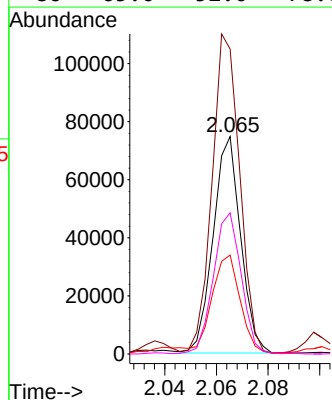
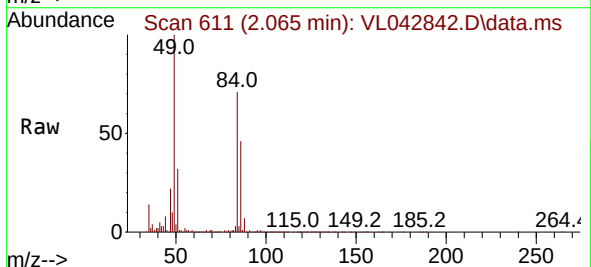
Manual Integrations
APPROVED

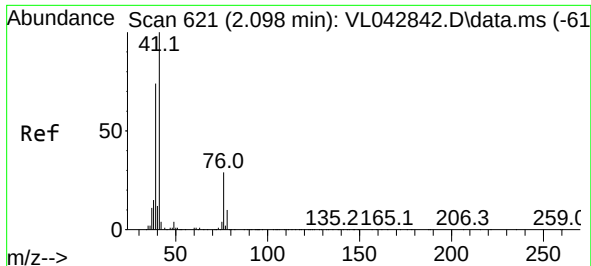
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#20
Methylene Chloride
Concen: 7.471 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

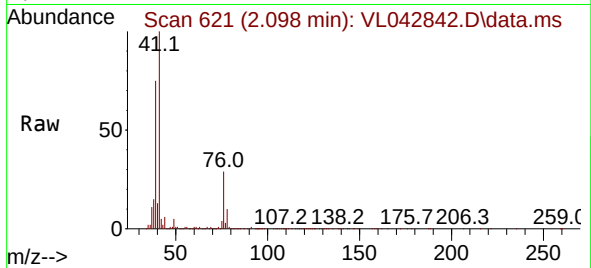
Tgt Ion: 84 Resp: 55107
Ion Ratio Lower Upper
84 100
49 140.4 112.3 168.5
51 45.0 36.0 54.0
86 65.0 52.0 78.0





#21
 Allyl Chloride
 Concen: 9.093 ppbv
 RT: 2.098 min Scan# 611
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

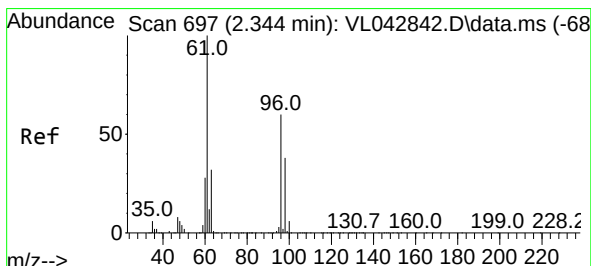
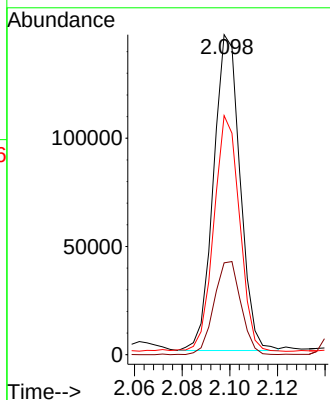
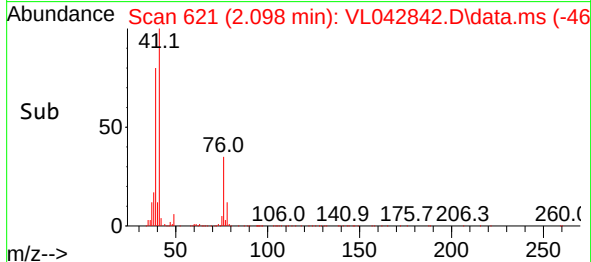
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



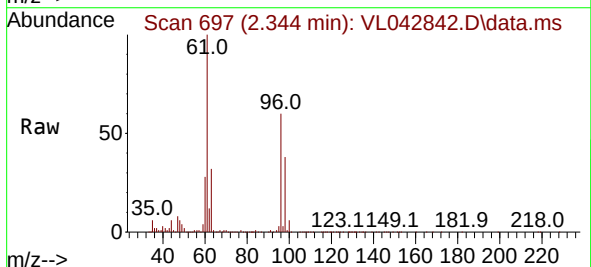
Tgt Ion: 41 Resp: 11310
 Ion Ratio Lower Upper
 41 100
 76 29.9 23.9 35.9
 39 72.2 57.8 86.6

Manual Integrations
 APPROVED

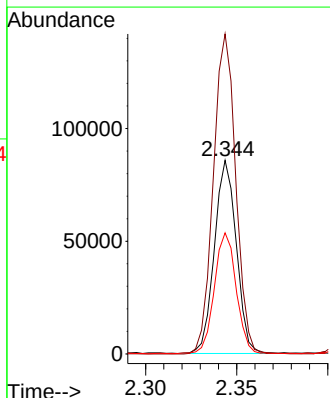
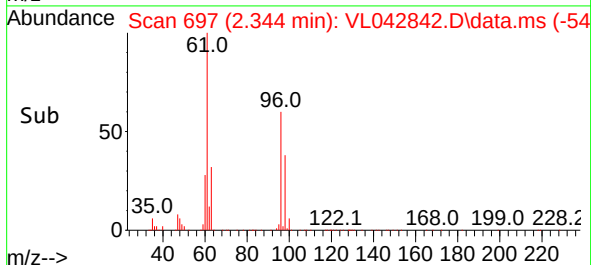
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

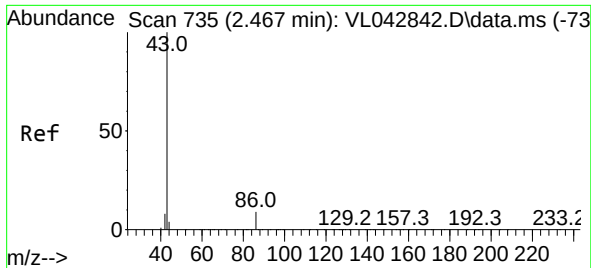


#22
 trans-1,2-Dichloroethene
 Concen: 9.482 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



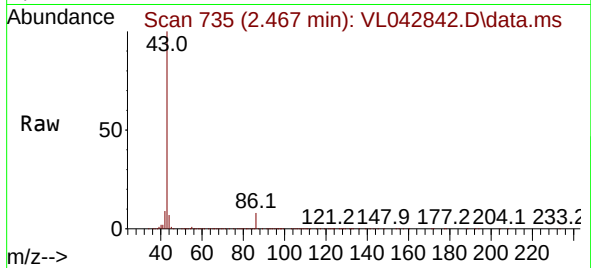
Tgt Ion: 96 Resp: 71518
 Ion Ratio Lower Upper
 96 100
 61 165.8 132.6 199.0
 98 62.5 50.0 75.0





#23
 Vinyl Acetate
 Concen: 9.558 ppbv
 RT: 2.467 min Scan# 735
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

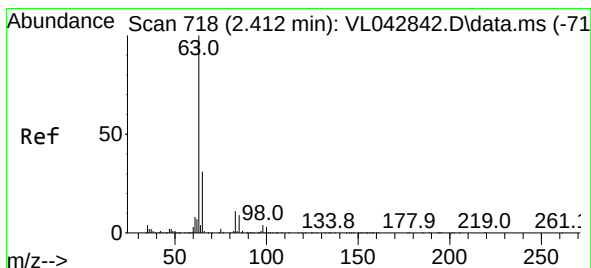
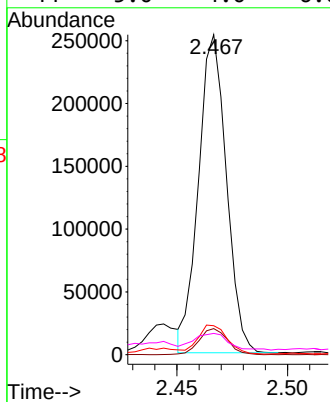
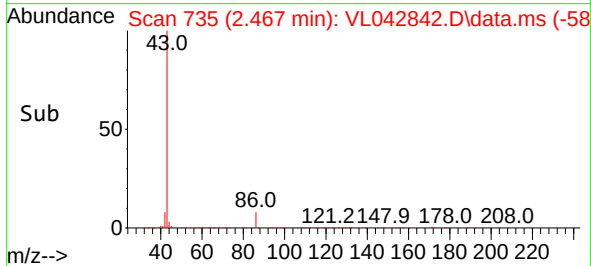
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



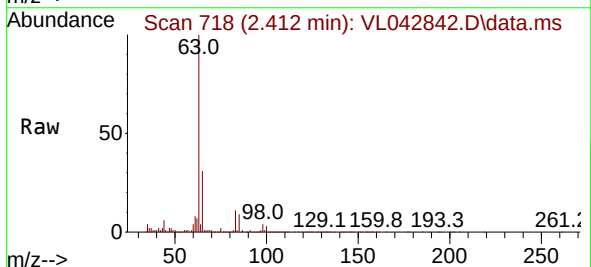
Tgt Ion: 43 Resp: 221395
 Ion Ratio Lower Upper
 43 100
 86 8.2 6.6 9.8
 42 8.8 7.0 10.6
 44 5.0 4.0 6.0

Manual Integrations
 APPROVED

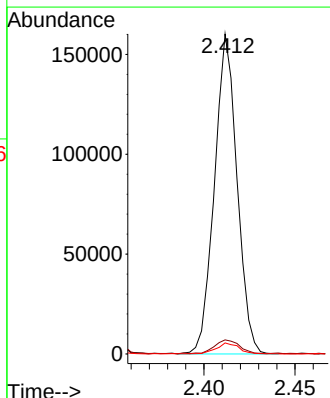
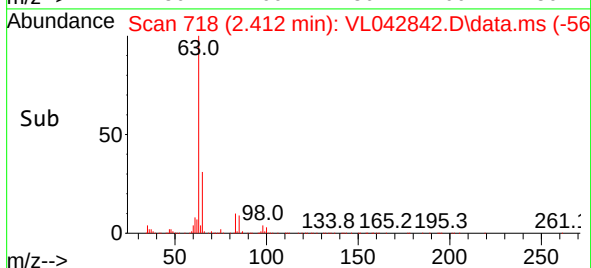
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

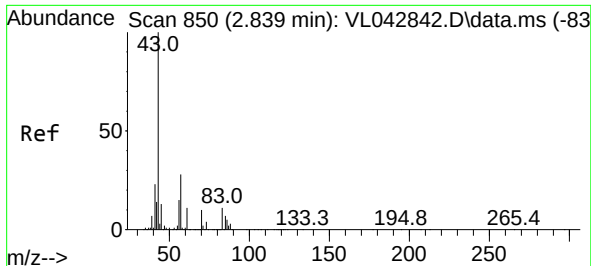


#24
 1,1-Dichloroethane
 Concen: 8.885 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



Tgt Ion: 63 Resp: 138444
 Ion Ratio Lower Upper
 63 100
 98 4.3 2.1 6.5
 100 3.4 1.7 5.1





#25

Ethyl Acetate

Concen: 9.159 ppbv

RT: 2.839 min Scan# 850

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

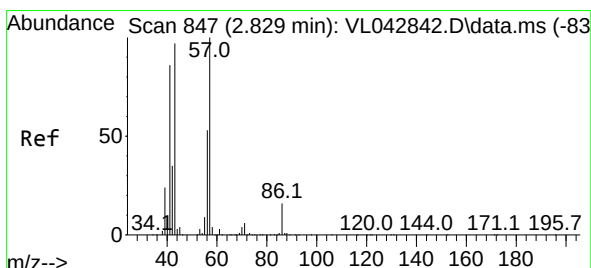
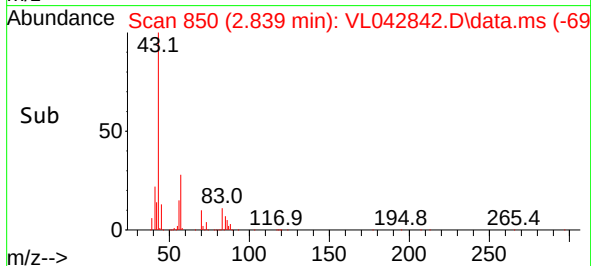
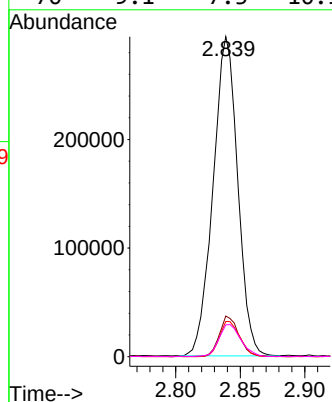
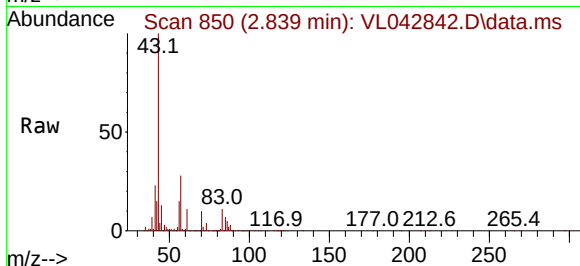
Tgt Ion: 43 Resp: 39029

Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	9.3	7.4	11.2
70	9.1	7.3	10.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#26

Hexane

Concen: 9.420 ppbv

RT: 2.829 min Scan# 847

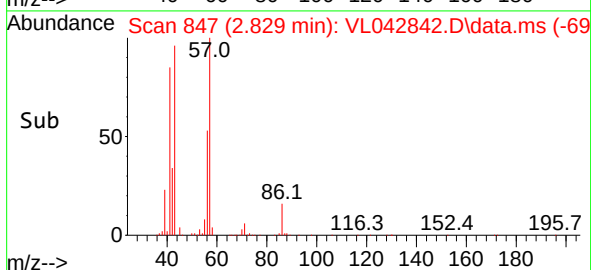
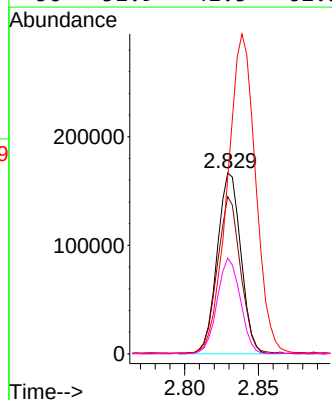
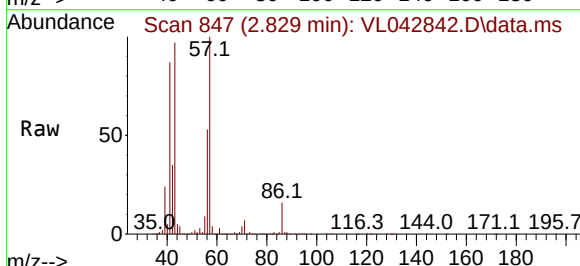
Delta R.T. 0.000 min

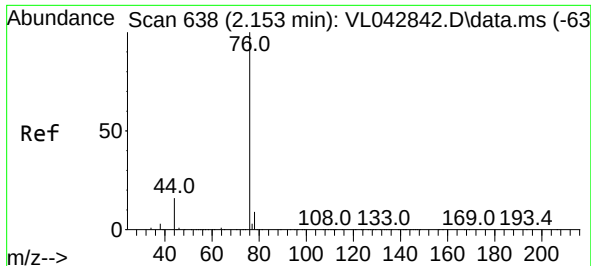
Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Tgt Ion: 57 Resp: 185288

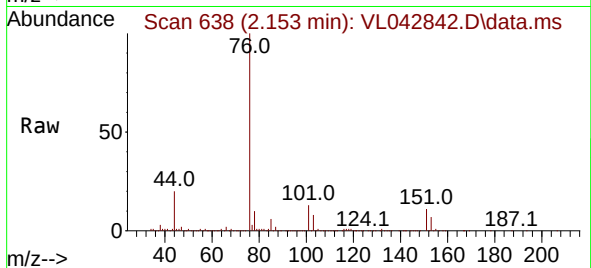
Ion	Ratio	Lower	Upper
57	100		
41	85.8	68.6	103.0
43	210.6	168.5	252.7
56	51.9	41.5	62.3





#27
Carbon Disulfide
Concen: 9.138 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

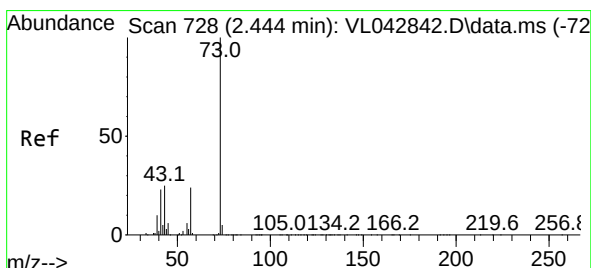
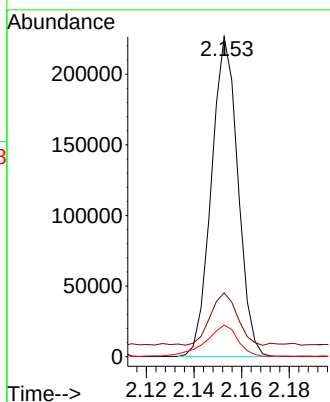
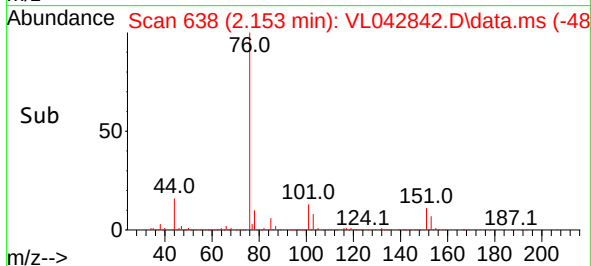
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



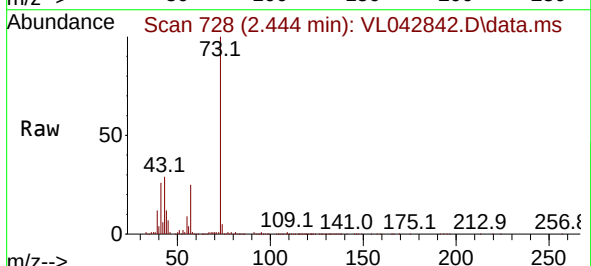
Tgt Ion: 76 Resp: 174928
Ion Ratio Lower Upper
76 100
44 19.9 15.9 23.9
78 11.9 9.5 14.3

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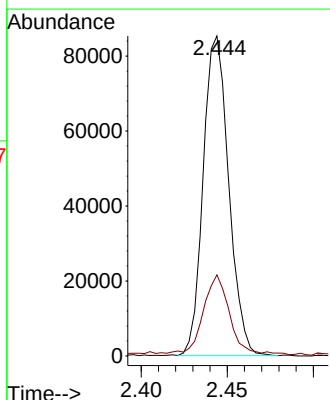
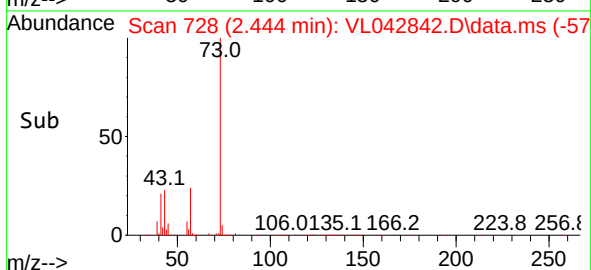
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

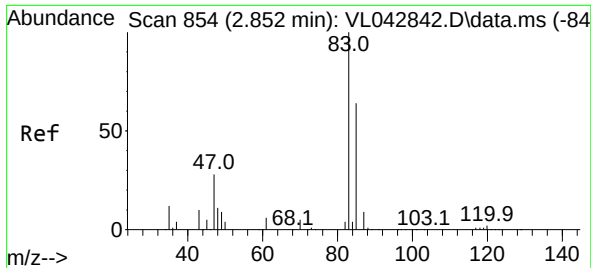


#28
Methyl tert-Butyl Ether
Concen: 8.767 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



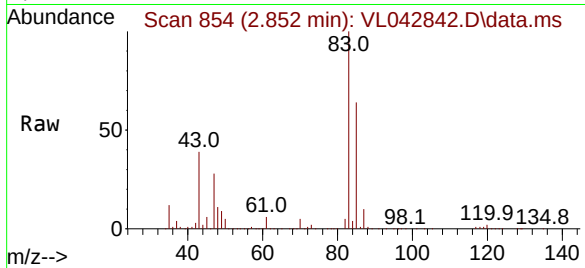
Tgt Ion: 73 Resp: 87929
Ion Ratio Lower Upper
73 100
57 27.0 21.6 32.4





#29
Chloroform
Concen: 9.158 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

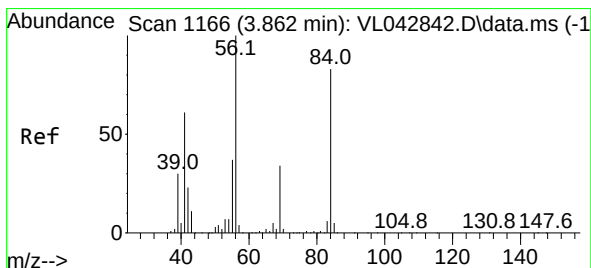
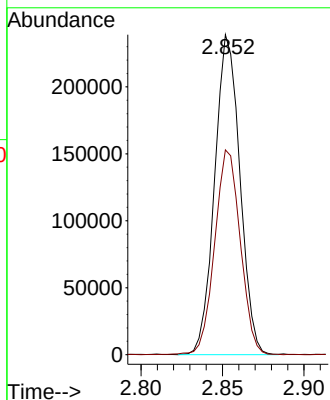
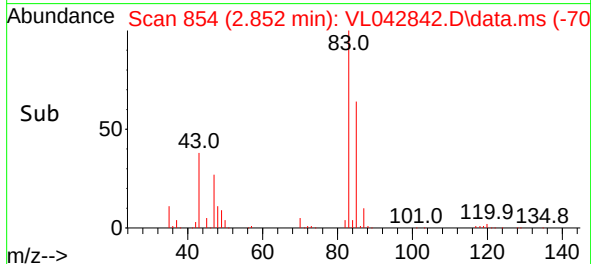
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 83 Resp: 257170
Ion Ratio Lower Upper
83 100
85 63.9 51.1 76.7

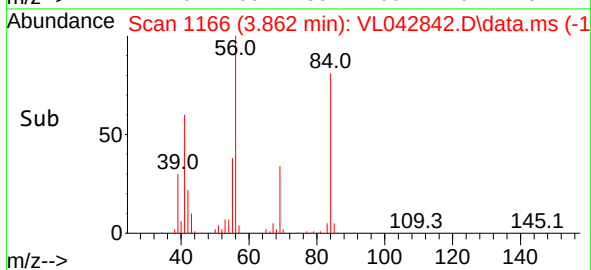
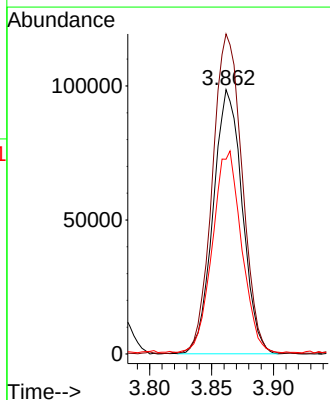
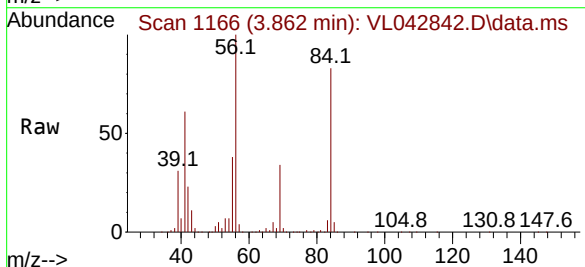
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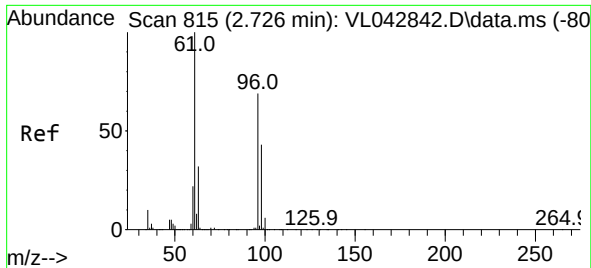
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#30
Cyclohexane
Concen: 9.367 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

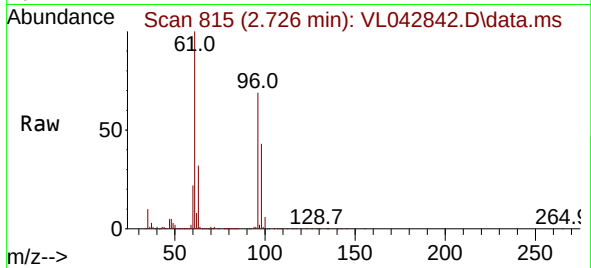
Tgt Ion: 84 Resp: 161540
Ion Ratio Lower Upper
84 100
56 123.5 98.8 148.2
41 76.6 61.3 91.9





#31
 cis-1,2-Dichloroethene
 Concen: 9.107 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

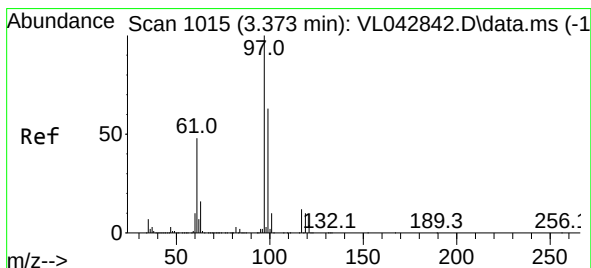
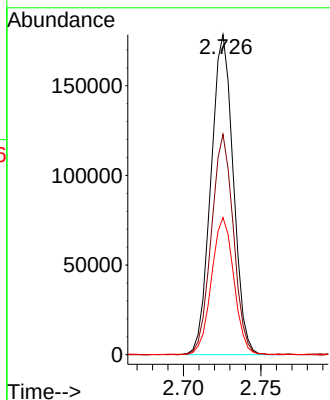
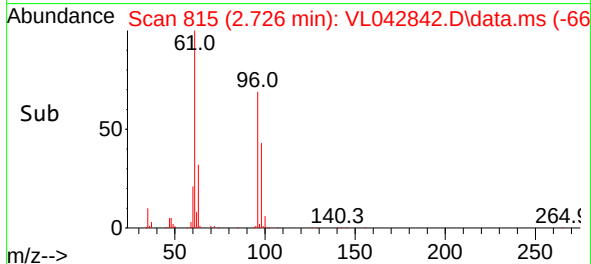
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



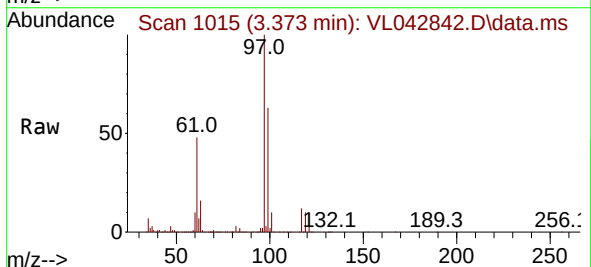
Tgt Ion: 61 Resp: 179162
 Ion Ratio Lower Upper
 61 100
 96 68.8 55.0 82.6
 98 42.9 34.3 51.5

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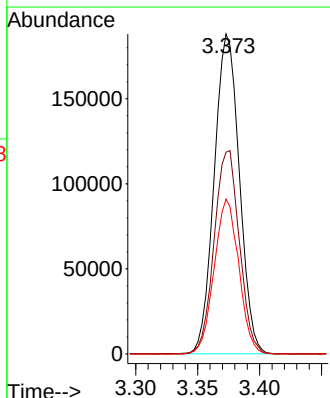
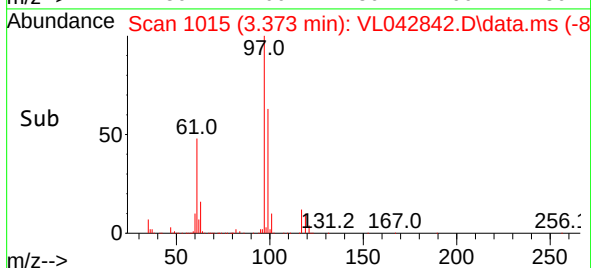
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

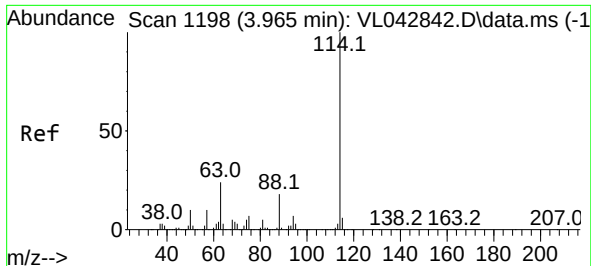


#32
 1,1,1-Trichloroethane
 Concen: 8.946 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



Tgt Ion: 97 Resp: 266021
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.0 76.6
 61 47.5 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:114 Resp: 41363

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

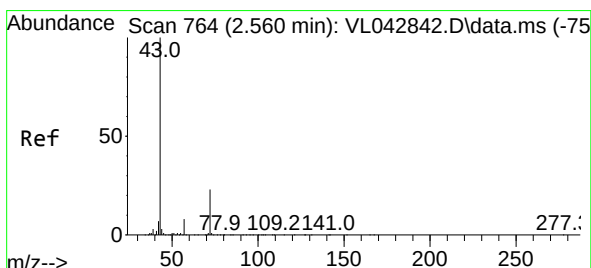
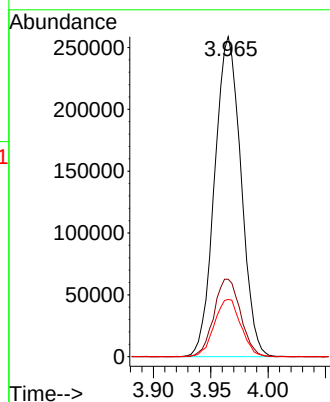
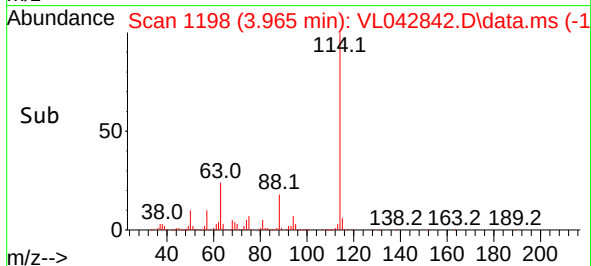
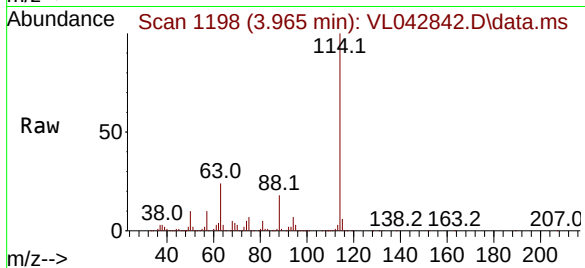
88 18.0 14.4 21.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#34

2-Butanone

Concen: 9.033 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.000 min

Lab File: VL042842.D

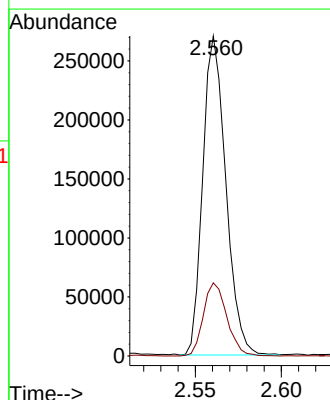
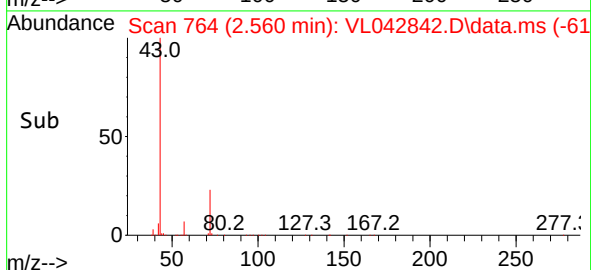
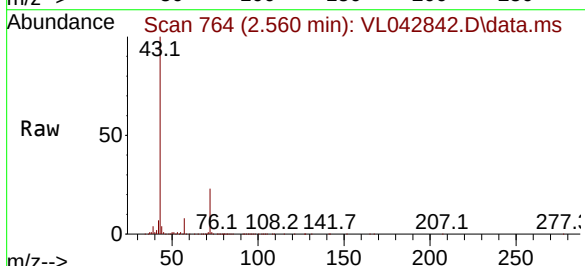
Acq: 13 Aug 2025 08:30

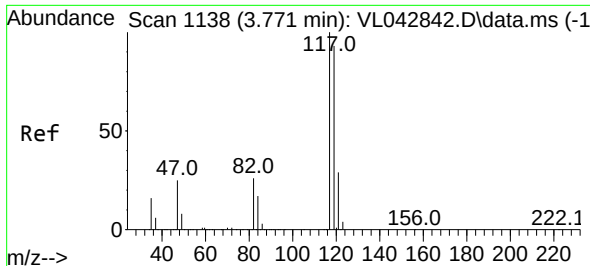
Tgt Ion: 43 Resp: 252300

Ion Ratio Lower Upper

43 100

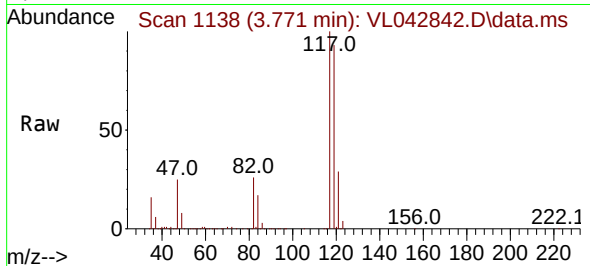
72 23.3 18.6 28.0





#35
Carbon Tetrachloride
Concen: 9.222 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

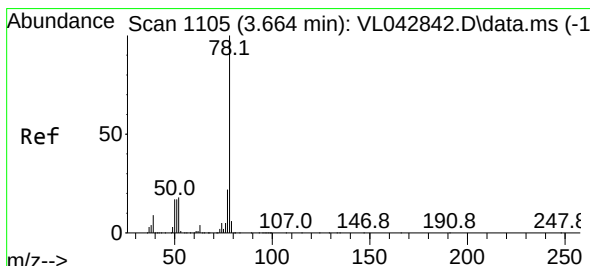
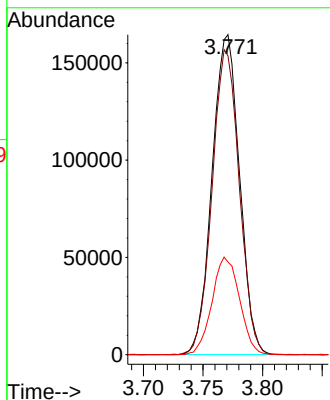
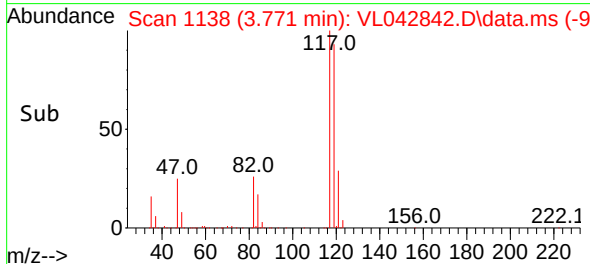
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 117 Resp: 26298
Ion Ratio Lower Upper
117 100
119 93.4 74.7 112.1
121 29.0 23.2 34.8

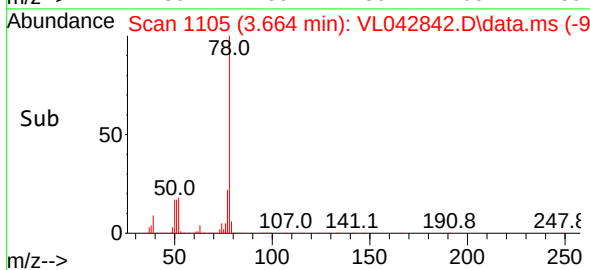
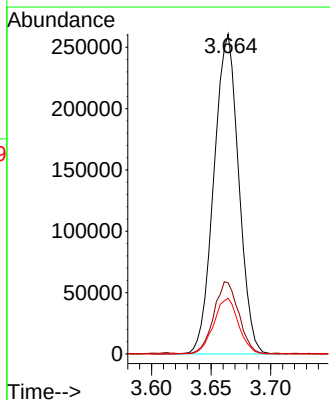
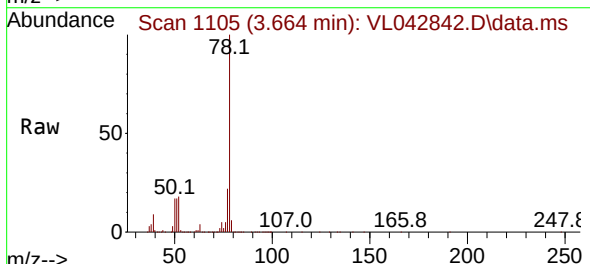
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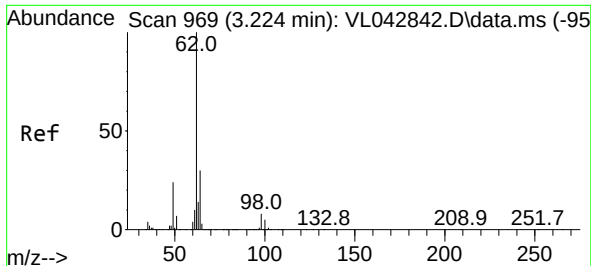
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#36
Benzene
Concen: 9.521 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 78 Resp: 377113
Ion Ratio Lower Upper
78 100
77 22.1 17.7 26.5
50 17.4 13.9 20.9





#37

1,2-Dichloroethane

Concen: 9.653 ppbv

RT: 3.224 min Scan# 969

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 62 Resp: 199762

Ion Ratio Lower Upper

62 100

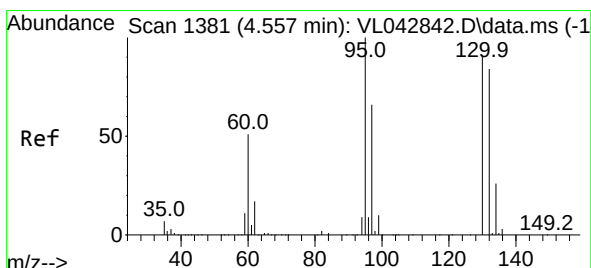
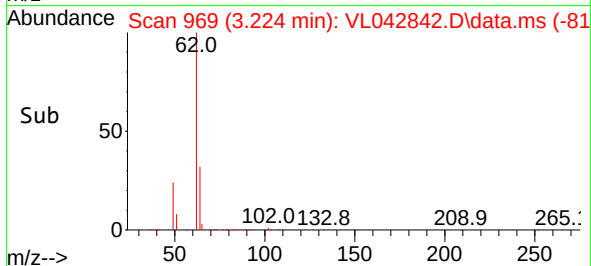
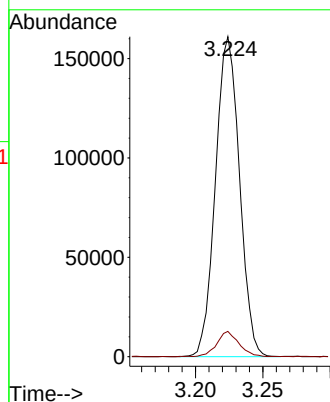
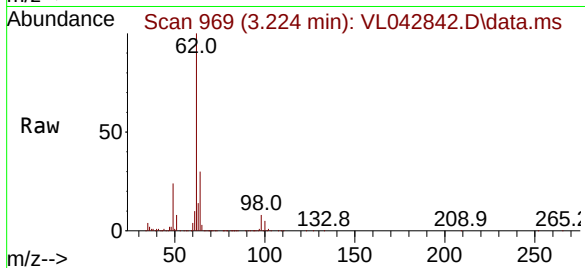
98 7.4 5.9 8.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#38

Trichloroethene

Concen: 9.115 ppbv

RT: 4.557 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Tgt Ion:130 Resp: 164881

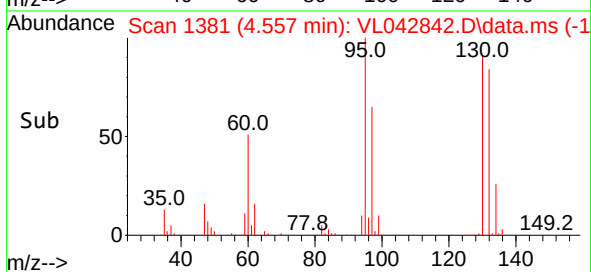
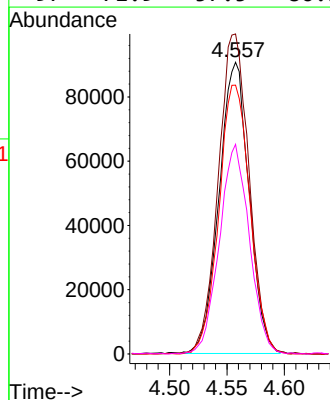
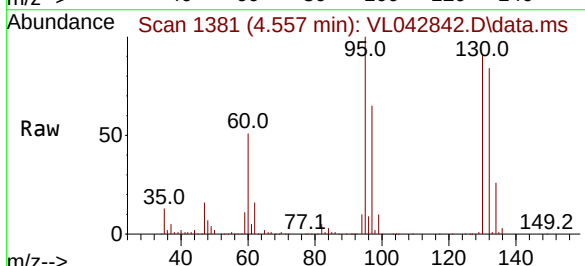
Ion Ratio Lower Upper

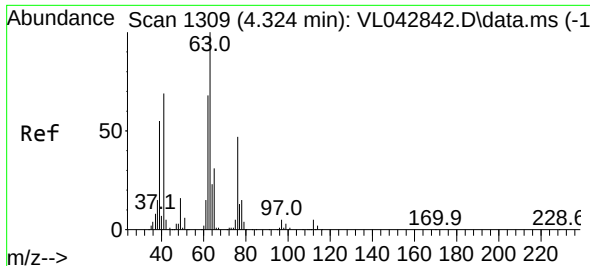
130 100

95 109.5 87.6 131.4

132 92.3 73.8 110.8

97 71.9 57.5 86.3





#39

1,2-Dichloropropane

Concen: 9.263 ppbv

RT: 4.324 min Scan# 1309

Delta R.T. 0.000 min

Lab File: VL042842.D

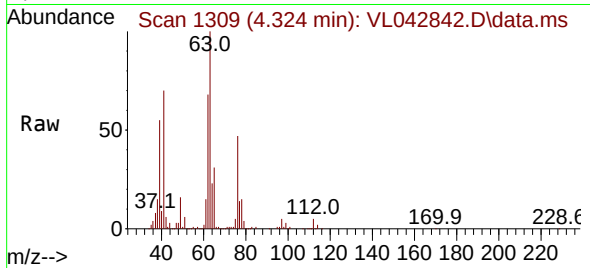
Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



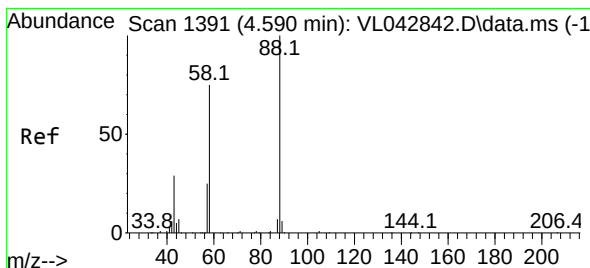
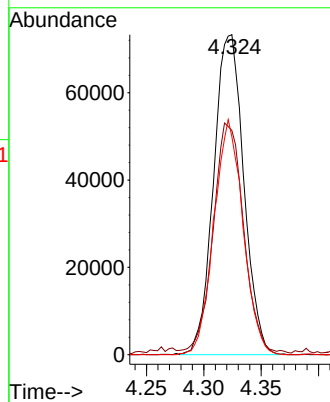
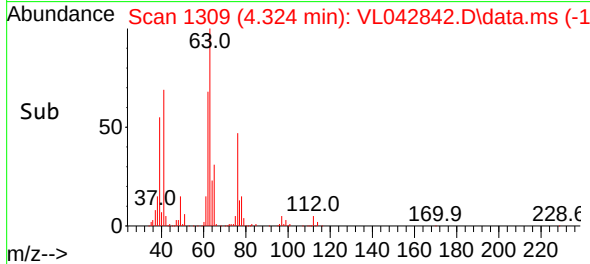
Tgt Ion:	63	Resp:	133990
Ion	Ratio	Lower	Upper
63	100		
41	68.7	55.0	82.4
62	68.0	54.4	81.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#40

1,4-Dioxane

Concen: 9.064 ppbv

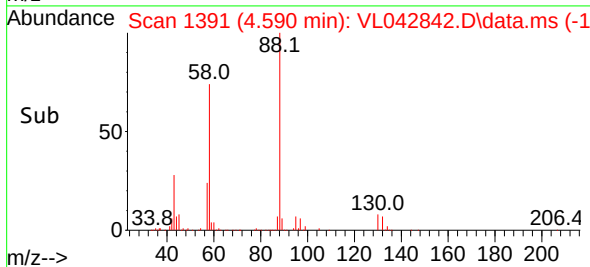
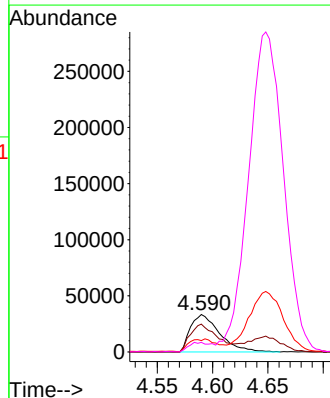
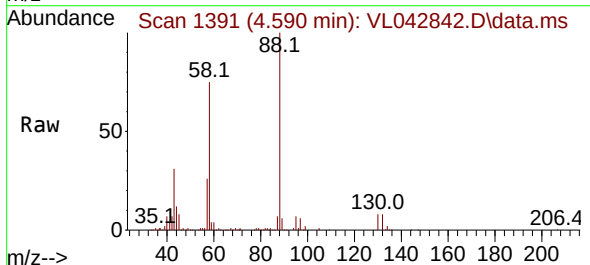
RT: 4.590 min Scan# 1391

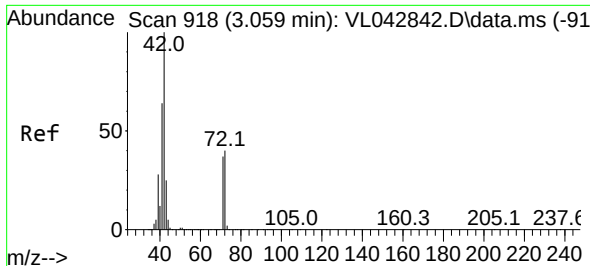
Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

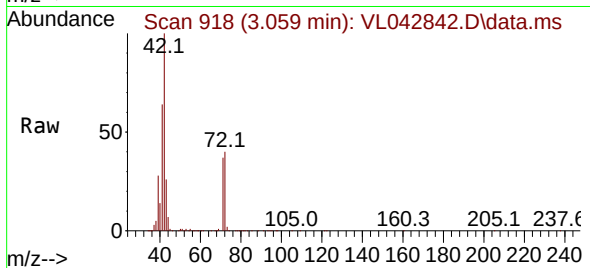
Tgt Ion:	88	Resp:	61378
Ion	Ratio	Lower	Upper
88	100		
58	67.2	53.8	80.6
43	28.5	22.8	34.2
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 9.442 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

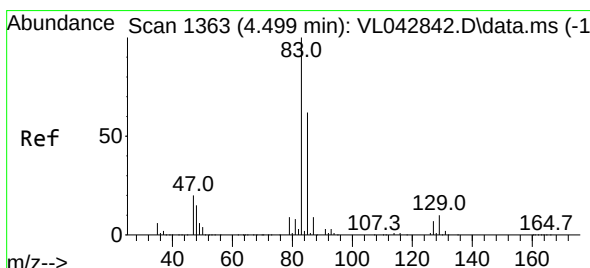
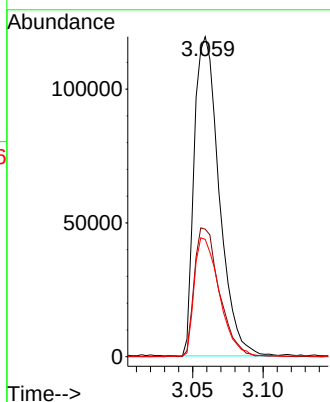
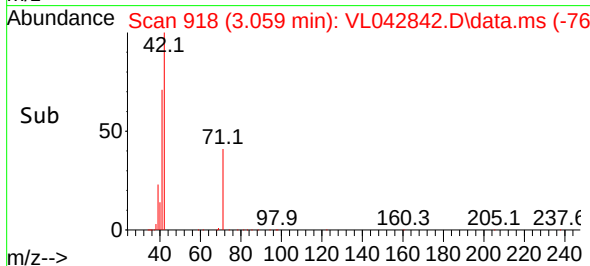
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



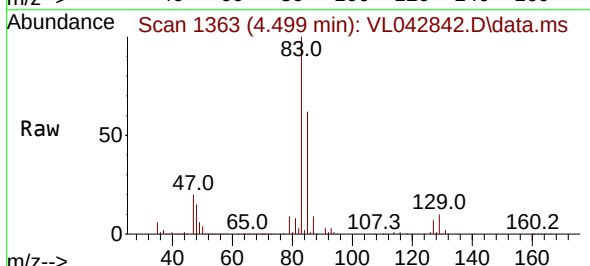
Tgt Ion: 42 Resp: 147025
Ion Ratio Lower Upper
42 100
72 40.7 32.6 48.8
71 37.5 30.0 45.0

Manual Integrations
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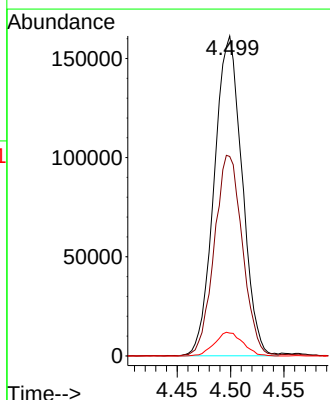
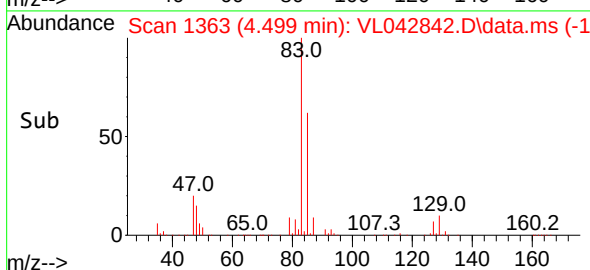
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

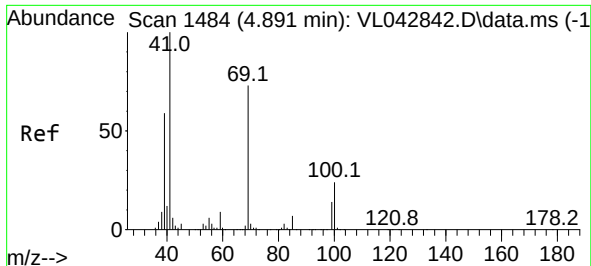


#42
Bromodichloromethane
Concen: 9.499 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



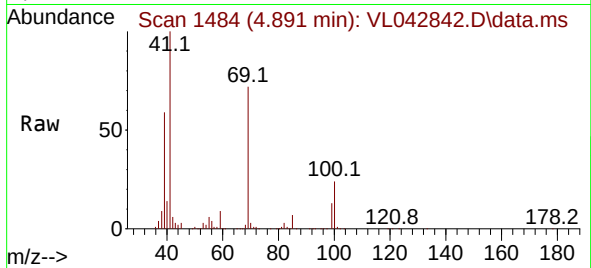
Tgt Ion: 83 Resp: 292909
Ion Ratio Lower Upper
83 100
85 62.3 49.8 74.8
127 7.2 5.8 8.6





#43
Methyl Methacrylate
Concen: 9.357 ppbv
RT: 4.891 min Scan# 1484
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

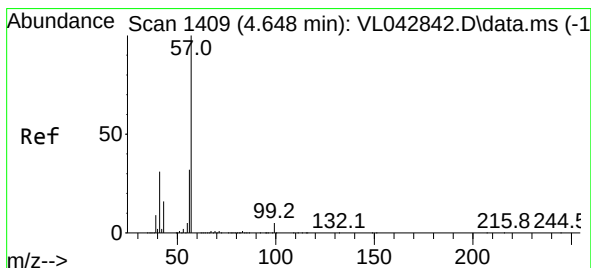
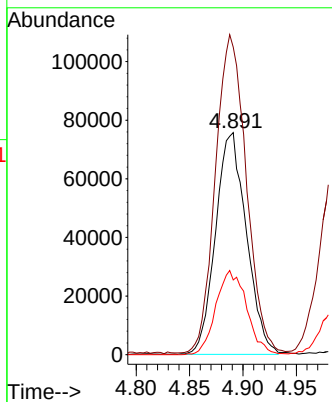
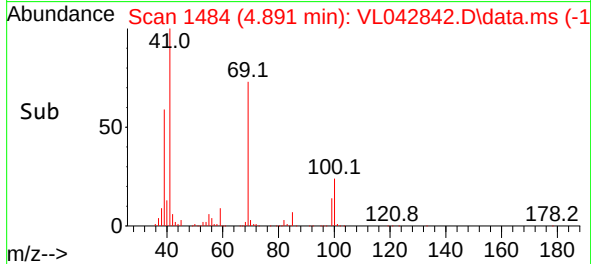
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



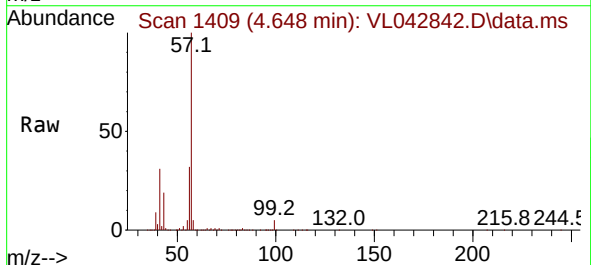
Tgt Ion: 69 Resp: 152035
Ion Ratio Lower Upper
69 100
41 143.3 114.6 172.0
100 37.8 30.2 45.4

Manual Integrations
APPROVED

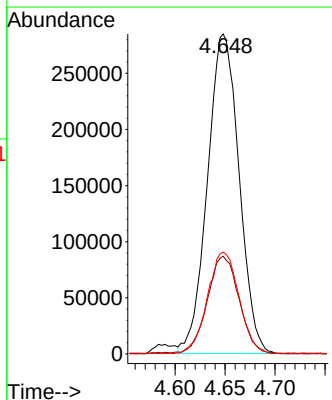
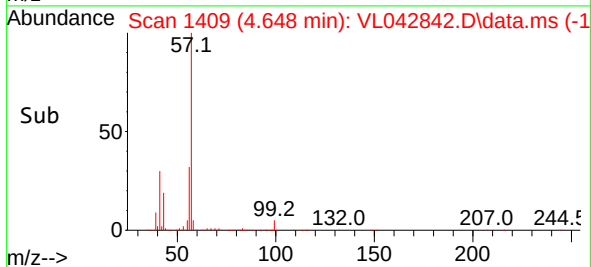
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

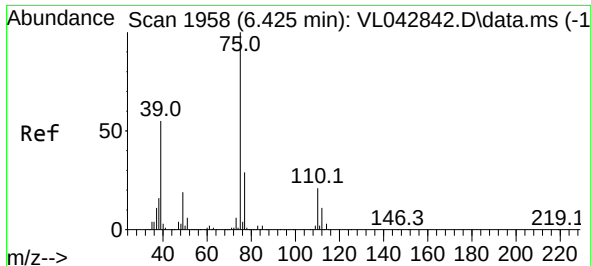


#44
2,2,4-Trimethylpentane
Concen: 9.420 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



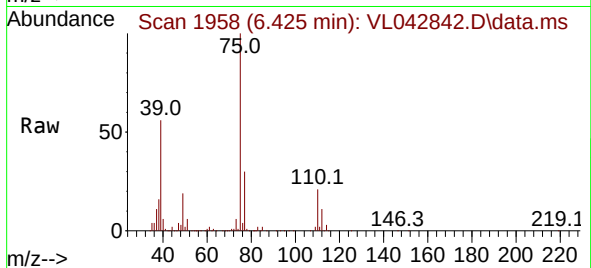
Tgt Ion: 57 Resp: 626465
Ion Ratio Lower Upper
57 100
41 31.0 24.8 37.2
56 31.9 25.5 38.3





#45
 t-1,3-Dichloropropene
 Concen: 9.616 ppbv
 RT: 6.425 min Scan# 1958
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

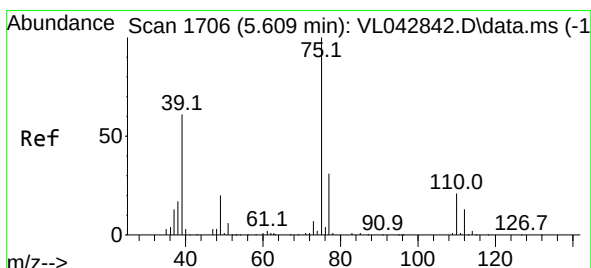
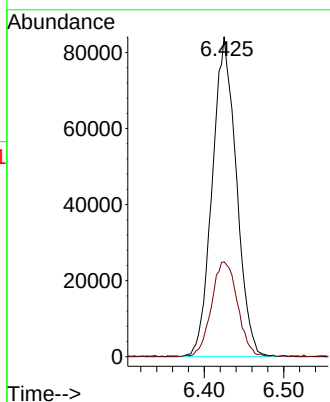
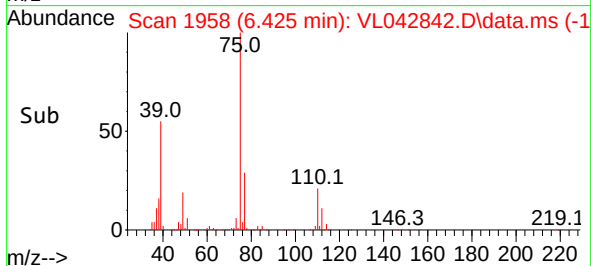
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



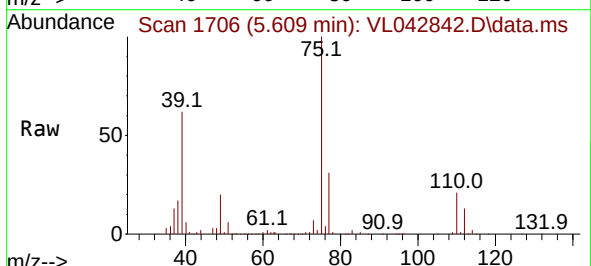
Tgt Ion: 75 Resp: 17720
 Ion Ratio Lower Upper
 75 100
 77 29.7 23.8 35.6

Manual Integrations
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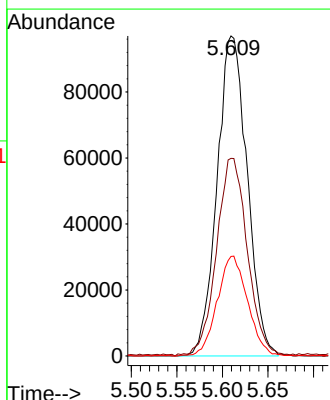
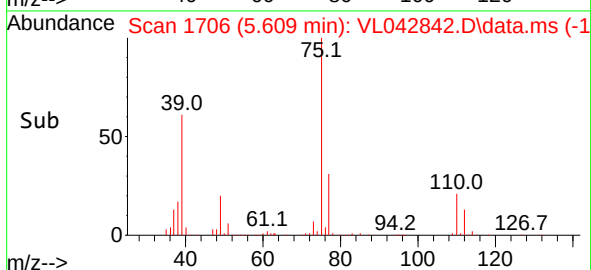
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

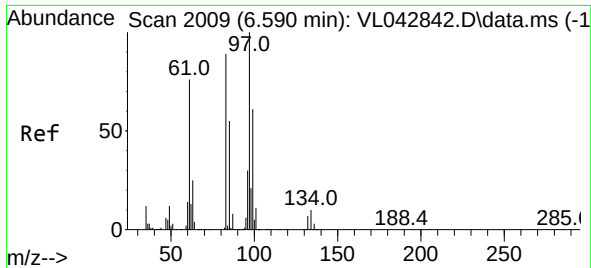


#46
 cis-1,3-Dichloropropene
 Concen: 9.635 ppbv
 RT: 5.609 min Scan# 1706
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



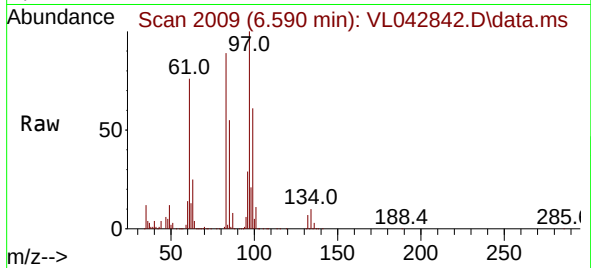
Tgt Ion: 75 Resp: 222921
 Ion Ratio Lower Upper
 75 100
 39 61.1 48.9 73.3
 77 31.1 24.9 37.3





#47
1,1,2-Trichloroethane
Concen: 9.215 ppbv
RT: 6.590 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

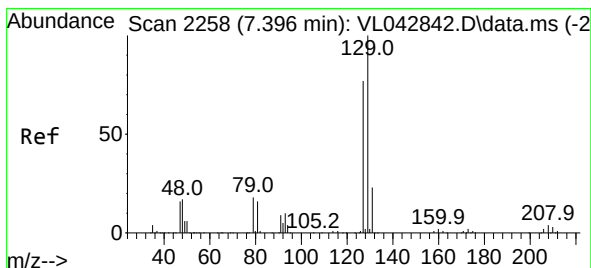
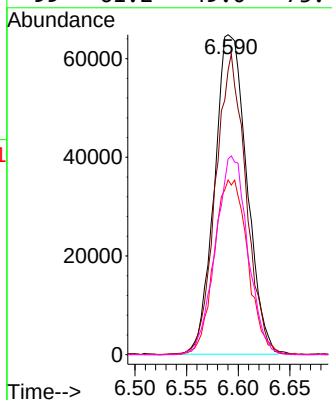
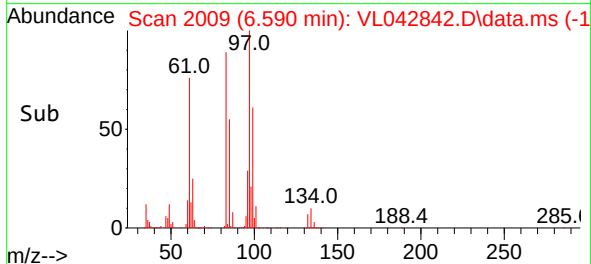
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 97 Resp: 14110
Ion Ratio Lower Upper
97 100
83 88.7 71.0 106.4
85 54.5 43.6 65.4
99 61.2 49.0 73.4

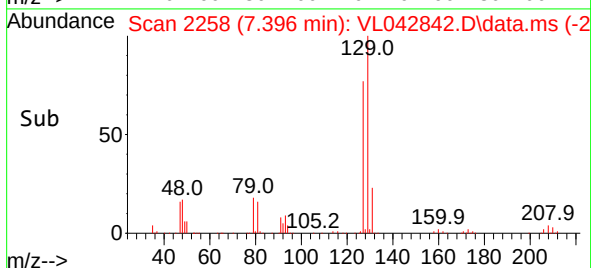
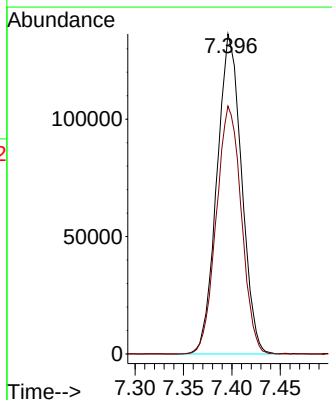
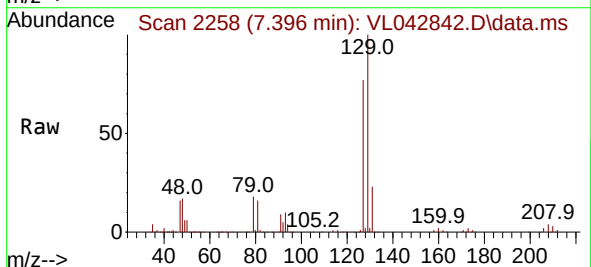
Manual Integrations
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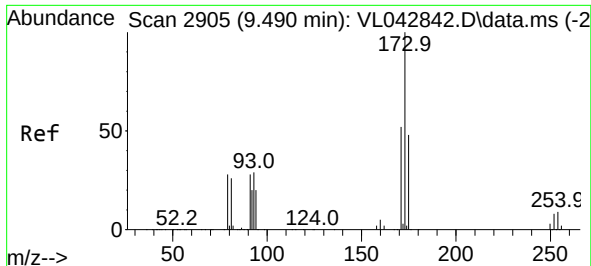
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#48
Dibromochloromethane
Concen: 9.739 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

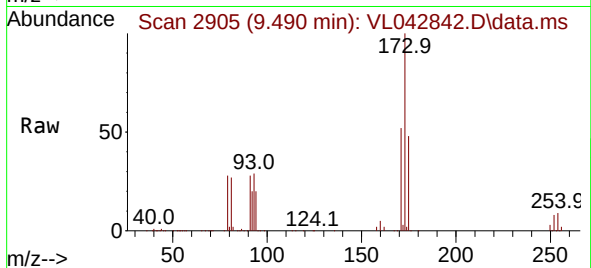
Tgt Ion:129 Resp: 241553
Ion Ratio Lower Upper
129 100
127 78.8 39.4 118.2





#49
Bromoform
Concen: 9.923 ppbv
RT: 9.490 min Scan# 2905
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

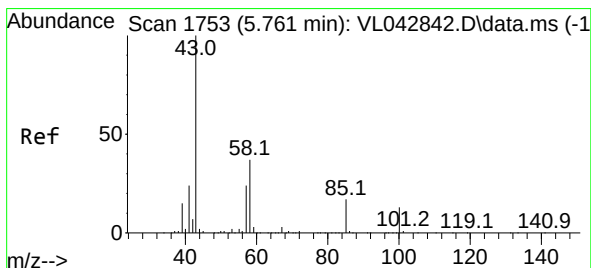
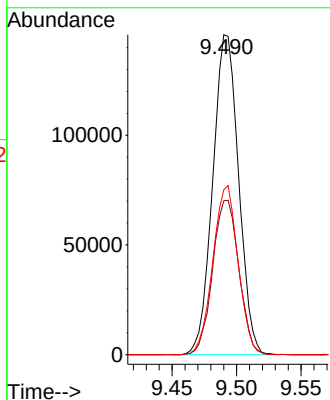
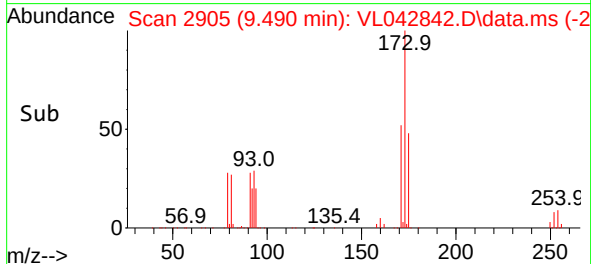
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 173 Resp: 202975
Ion Ratio Lower Upper
173 100
175 49.0 39.2 58.8
171 51.6 41.3 61.9

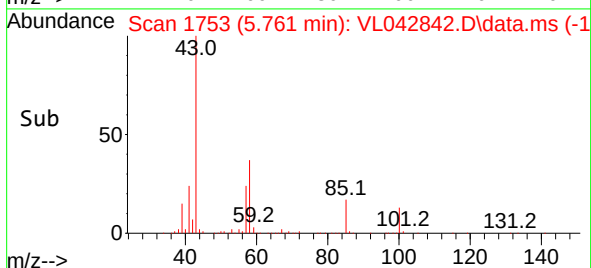
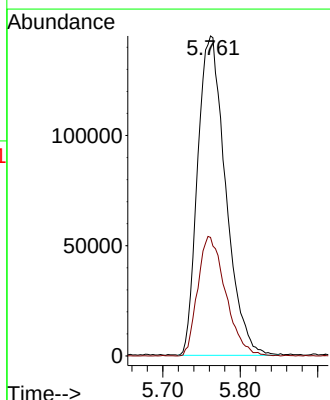
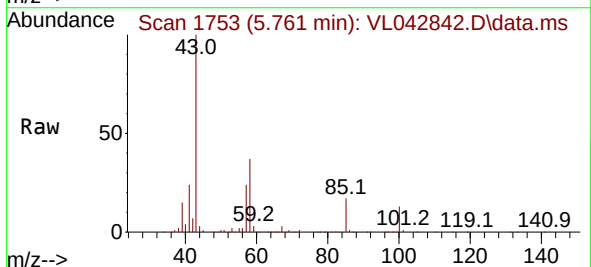
Manual Integrations
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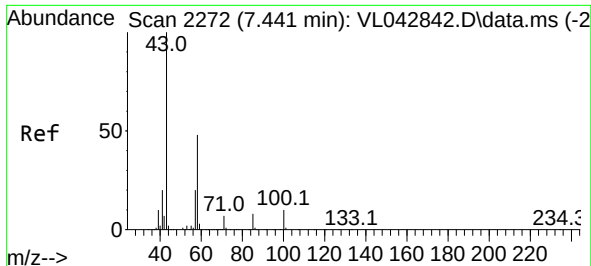
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#50
4-Methyl-2-Pentanone
Concen: 9.616 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

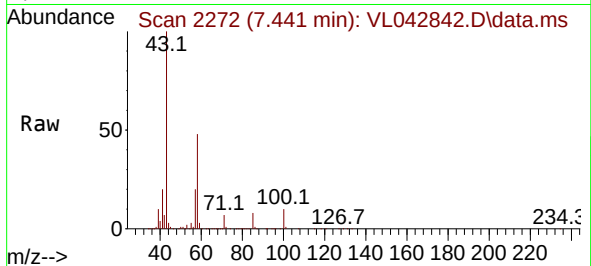
Tgt Ion: 43 Resp: 364306
Ion Ratio Lower Upper
43 100
58 37.3 29.8 44.8





#51
2-Hexanone
Concen: 9.730 ppbv
RT: 7.441 min Scan# 2117
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

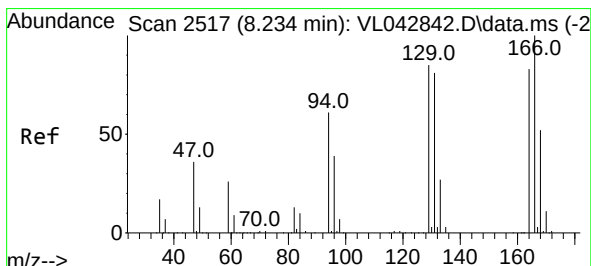
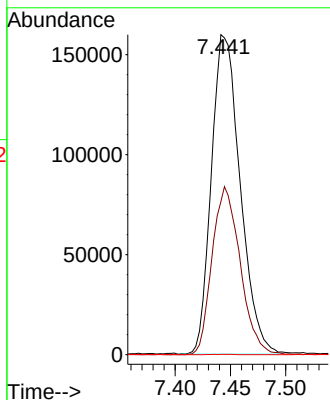
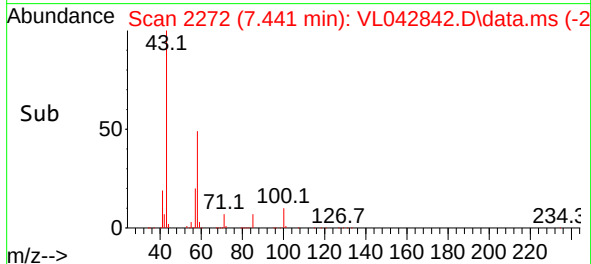
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 43 Resp: 289052
Ion Ratio Lower Upper
43 100
58 51.3 41.0 61.6
98 0.1 0.1 0.1

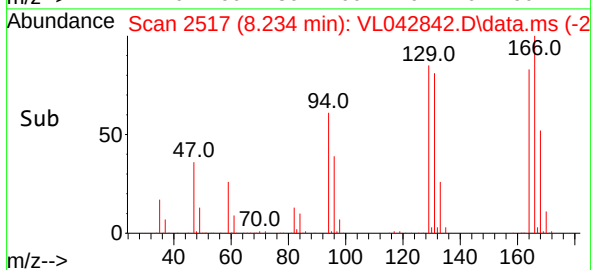
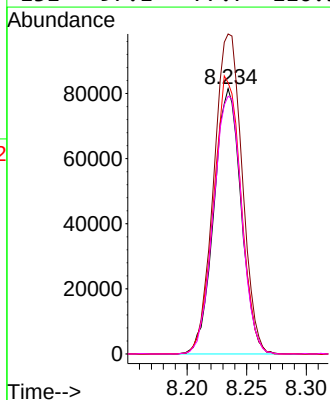
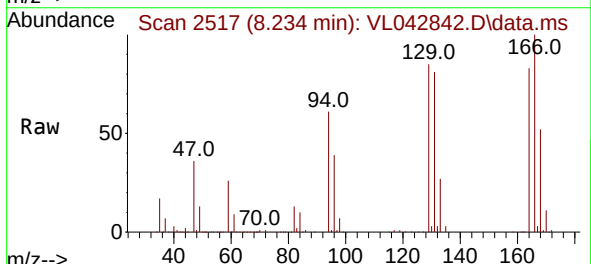
Manual Integrations
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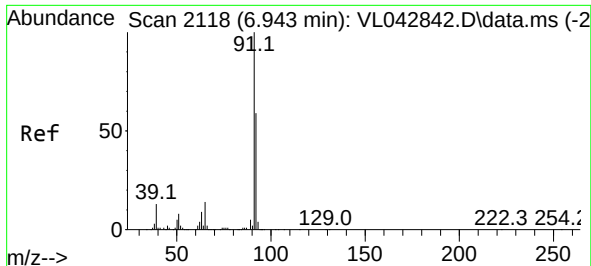
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#52
Tetrachloroethene
Concen: 9.026 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

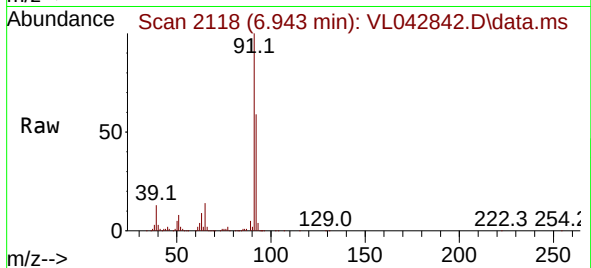
Tgt Ion:164 Resp: 129484
Ion Ratio Lower Upper
164 100
166 120.6 96.5 144.7
129 102.2 81.8 122.6
131 97.1 77.7 116.5





#53
Toluene
Concen: 9.407 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

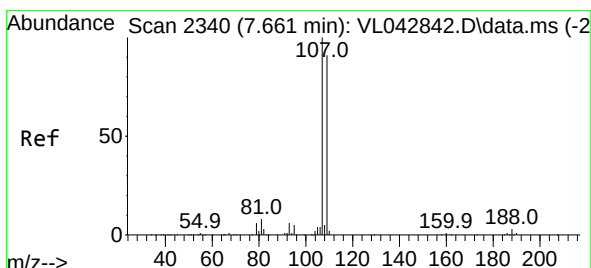
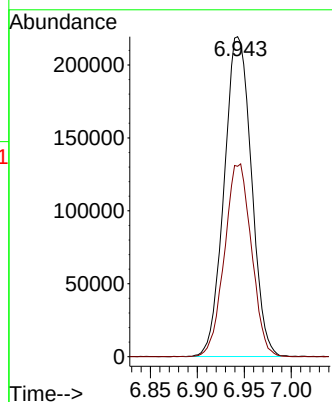
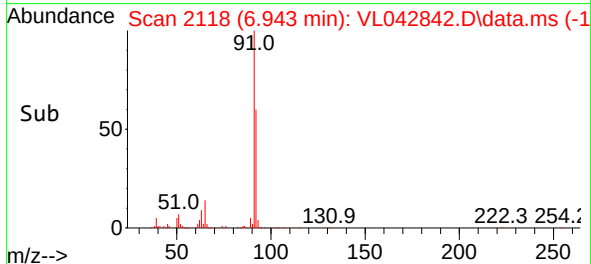
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



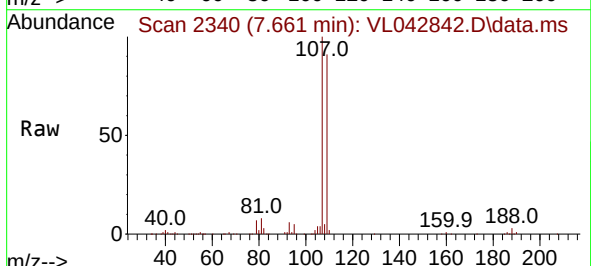
Tgt Ion: 91 Resp: 443400
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6

Manual Integrations
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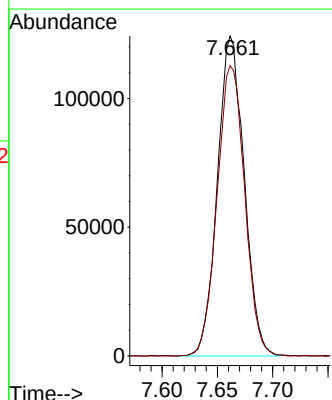
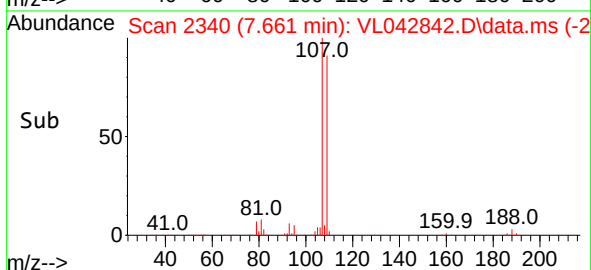
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

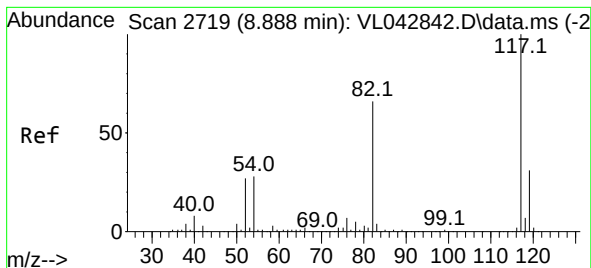


#54
1,2-Dibromoethane
Concen: 9.345 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



Tgt Ion:107 Resp: 209330
Ion Ratio Lower Upper
107 100
109 90.6 72.5 108.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2719

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

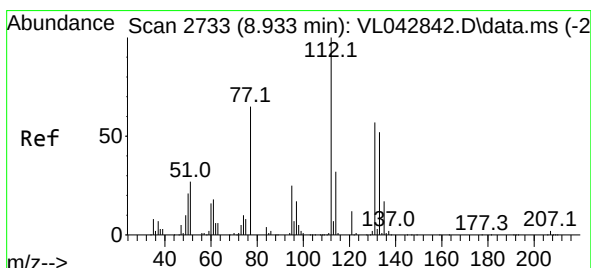
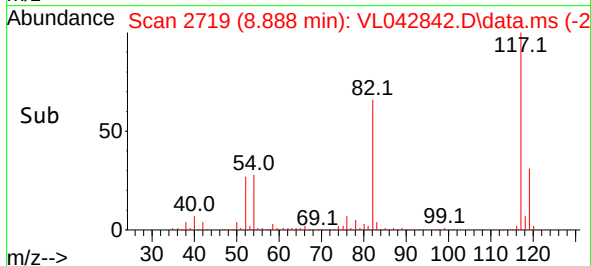
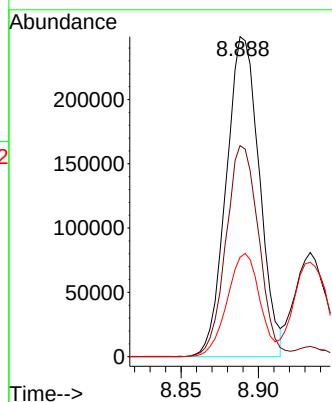
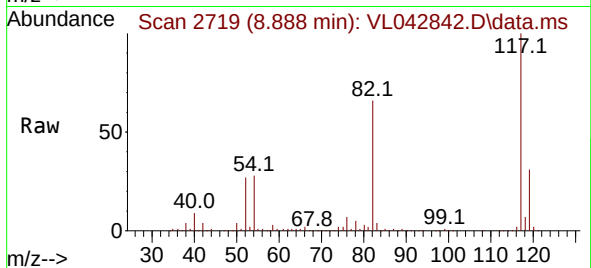
Tgt Ion:117 Resp: 370372

Ion	Ratio	Lower	Upper
117	100		
82	68.2	54.6	81.8
119	32.4	25.9	38.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 9.196 ppbv

RT: 8.933 min Scan# 2733

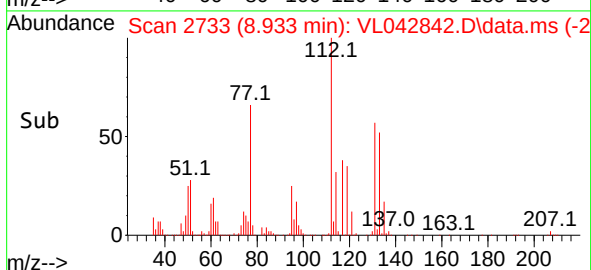
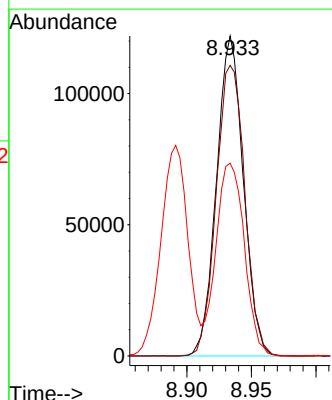
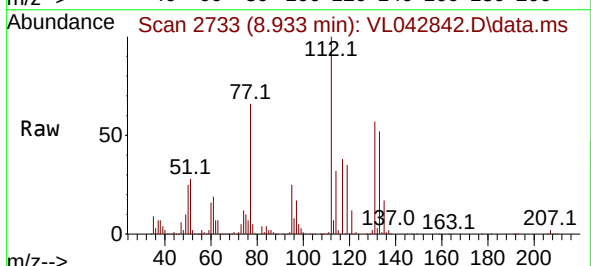
Delta R.T. 0.000 min

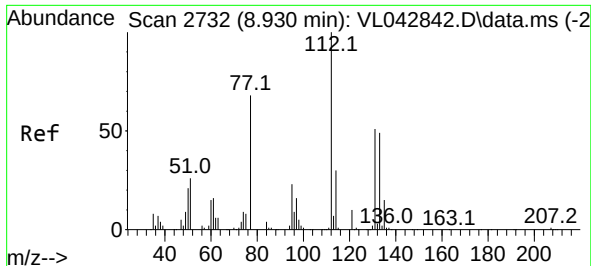
Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Tgt Ion:131 Resp: 176135

Ion	Ratio	Lower	Upper
131	100		
133	96.7	77.4	116.0
119	64.0	51.2	76.8





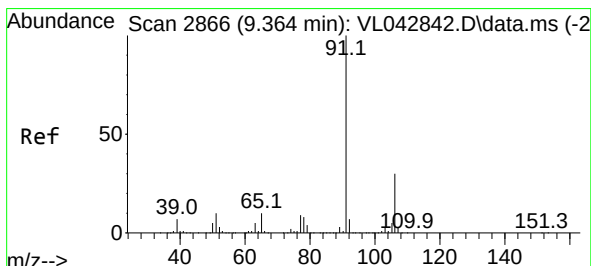
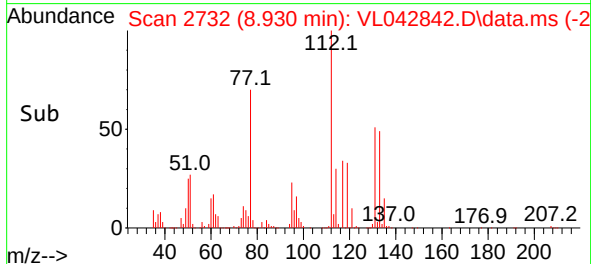
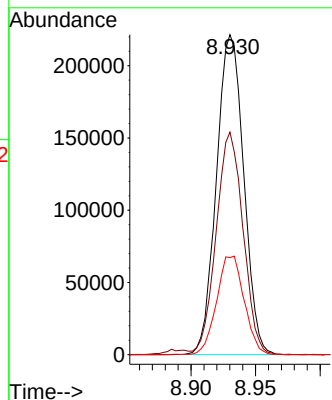
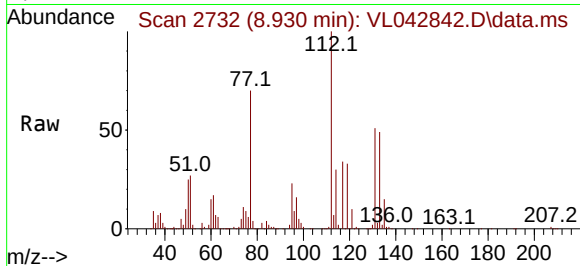
#57
Chlorobenzene
Concen: 9.237 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:112 Resp: 32530
Ion Ratio Lower Upper
112 100
77 69.4 55.5 83.3
114 30.2 27.2 33.2

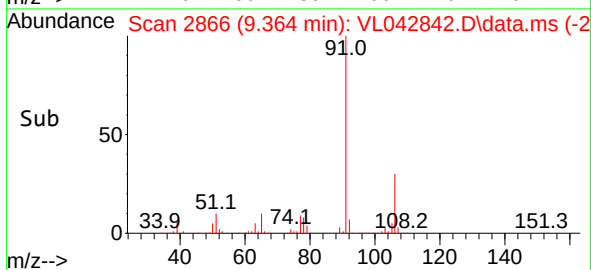
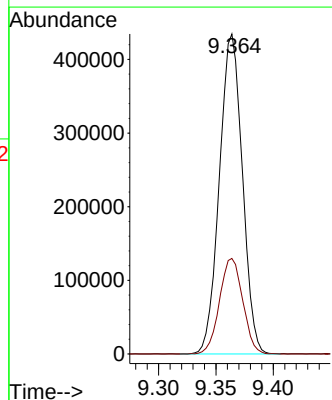
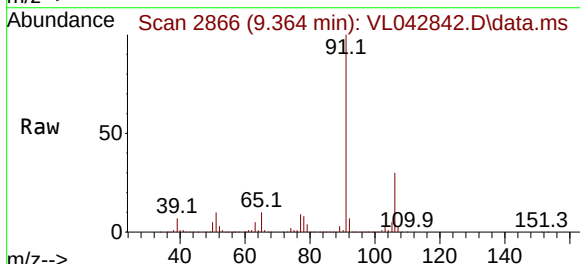
Manual Integrations
APPROVED

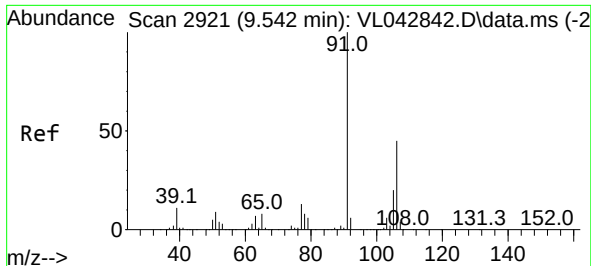
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#58
Ethyl Benzene
Concen: 9.268 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

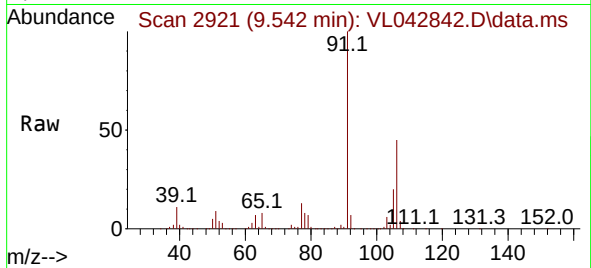
Tgt Ion: 91 Resp: 605785
Ion Ratio Lower Upper
91 100
106 29.9 23.9 35.9





#59
m/p-Xylene
Concen: 18.524 ppbv m
RT: 9.542 min Scan# 2921
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

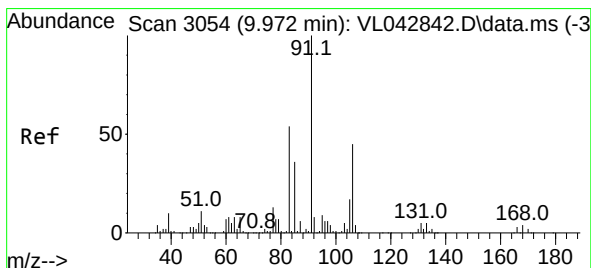
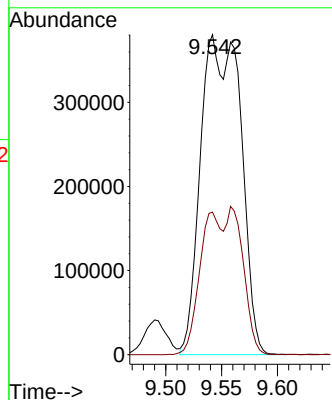
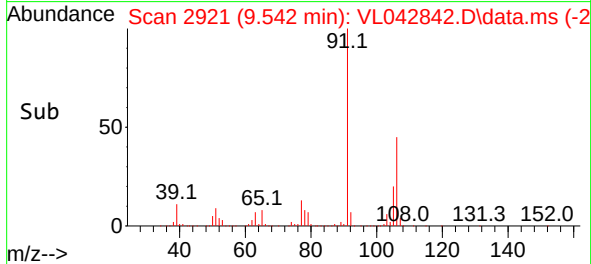
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 91 Resp: 950548
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

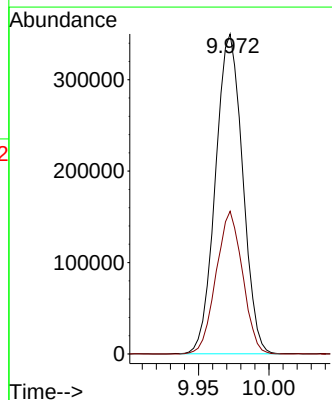
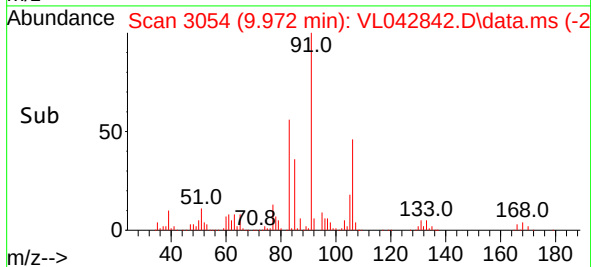
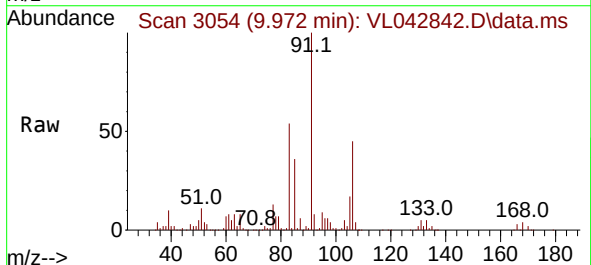
Manual Integrations
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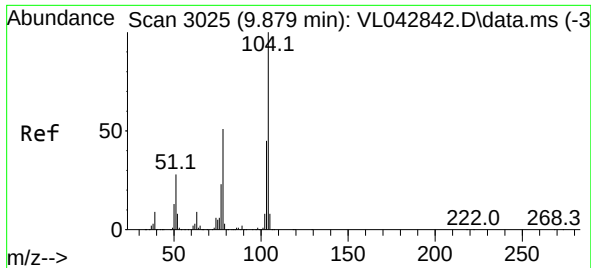
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#60
o-Xylene
Concen: 9.102 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 469073
Ion Ratio Lower Upper
91 100
106 43.6 21.8 65.4





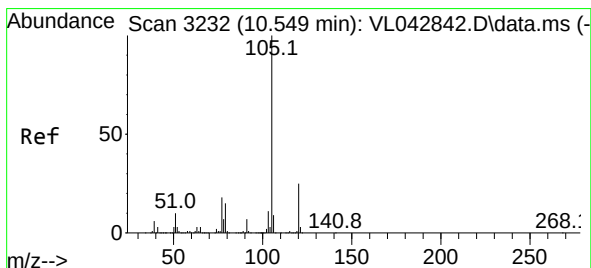
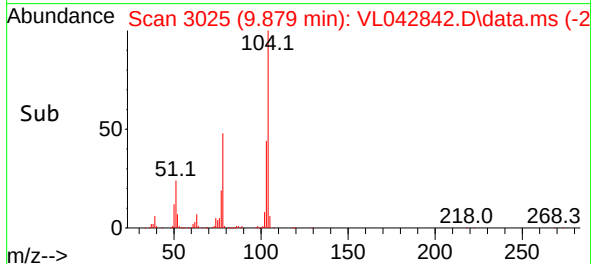
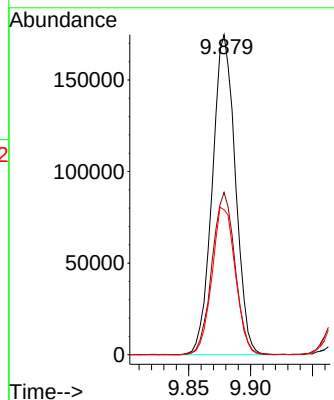
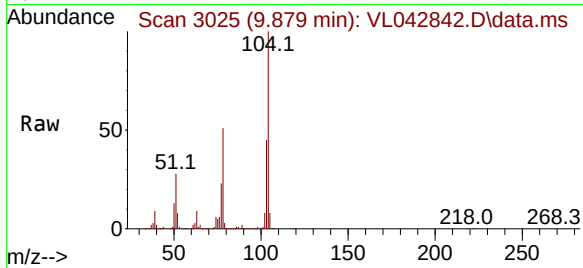
#61
Styrene
Concen: 9.362 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 226050
Ion Ratio Lower Upper
104 100
78 50.8 40.6 61.0
103 47.1 37.7 56.5

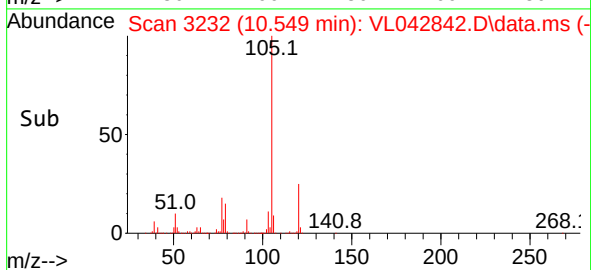
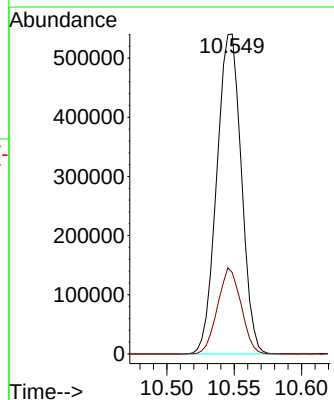
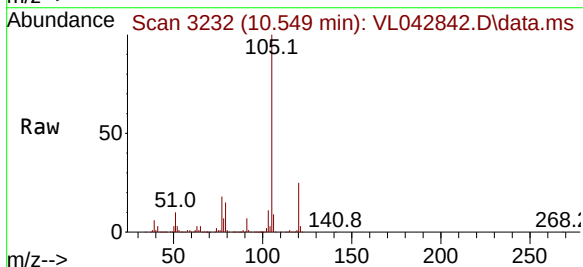
Manual Integrations
APPROVED

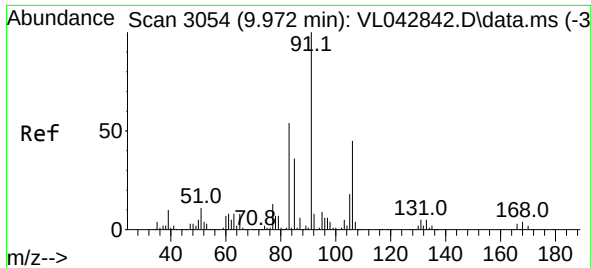
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#62
Isopropylbenzene
Concen: 9.108 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

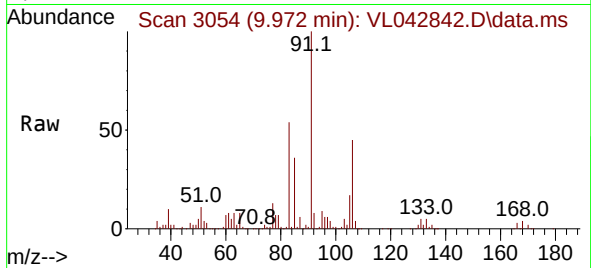
Tgt Ion:105 Resp: 685983
Ion Ratio Lower Upper
105 100
120 25.7 20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 8.870 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

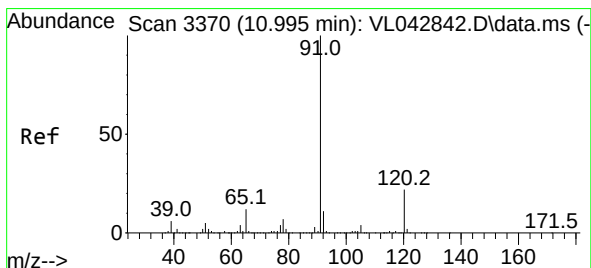
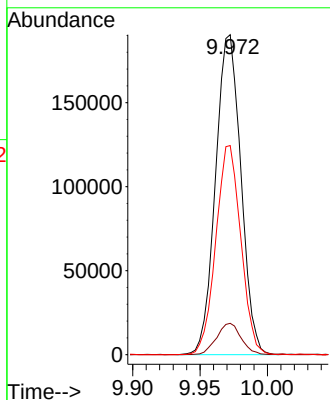
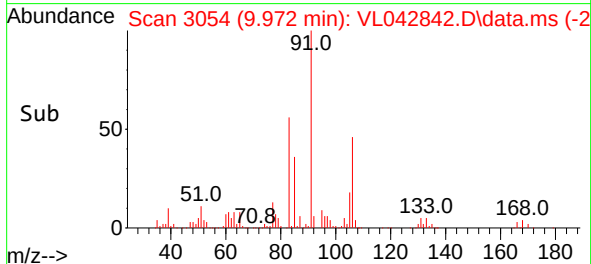
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



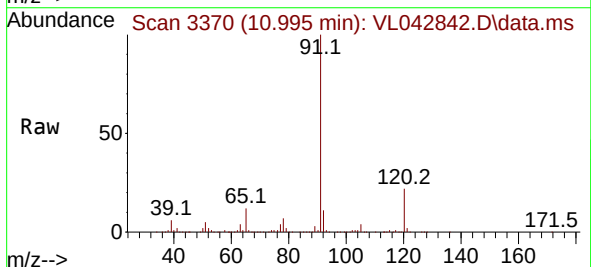
Tgt Ion: 83 Resp: 24962
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 64.5 32.3 96.8

Manual Integrations
APPROVED

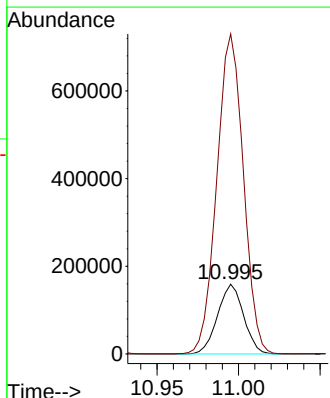
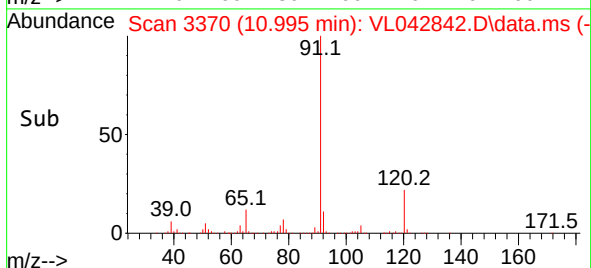
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

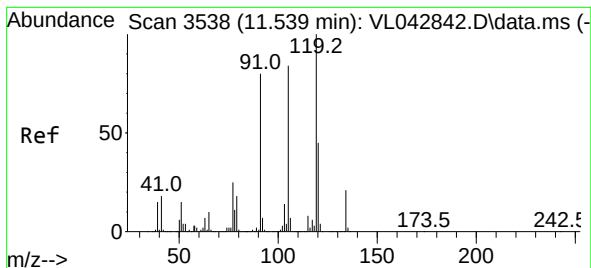


#64
n-propylbenzene
Concen: 9.158 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



Tgt Ion:120 Resp: 175986
Ion Ratio Lower Upper
120 100
91 469.7 375.8 563.6





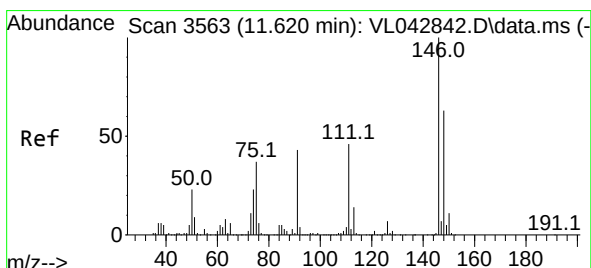
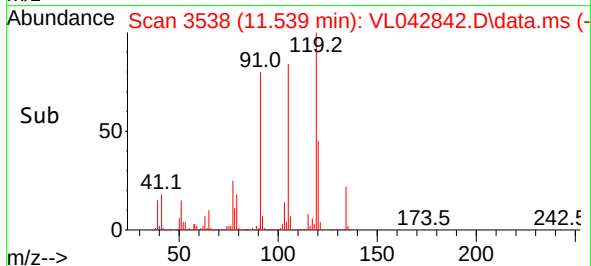
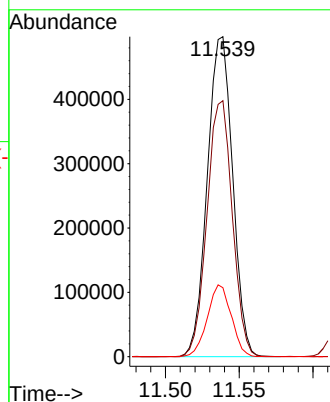
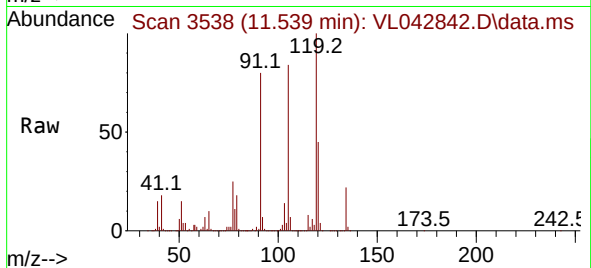
#65
tert-Butylbenzene
Concen: 8.951 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 119 Resp: 594314
Ion Ratio Lower Upper
119 100
91 79.9 63.9 95.9
134 21.2 17.0 25.4

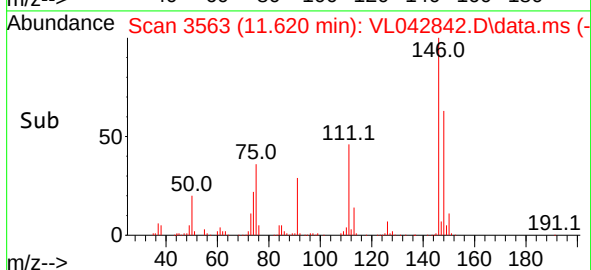
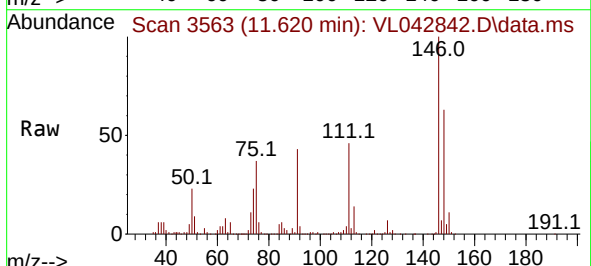
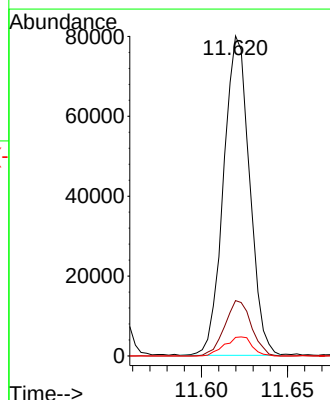
Manual Integrations
APPROVED

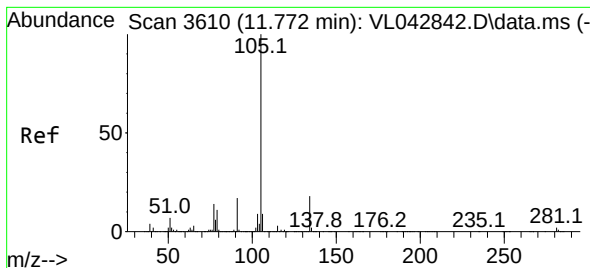
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#66
Benzyl Chloride
Concen: 9.985 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

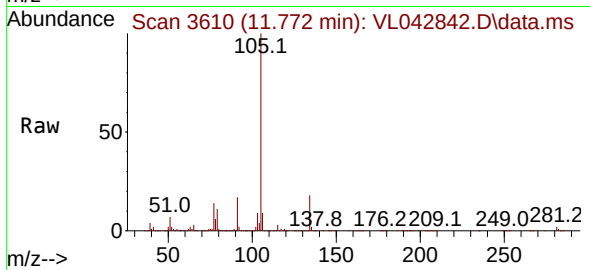
Tgt Ion: 91 Resp: 84156
Ion Ratio Lower Upper
91 100
126 17.8 14.2 21.4
128 6.3 5.0 7.6





#67
 sec-Butylbenzene
 Concen: 8.943 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

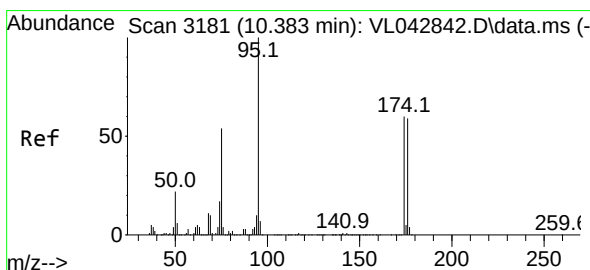
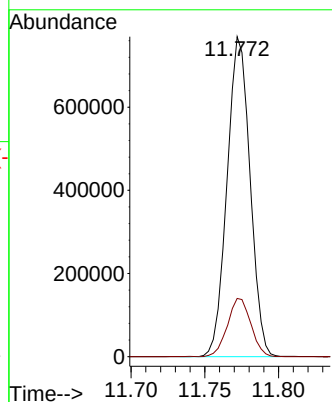
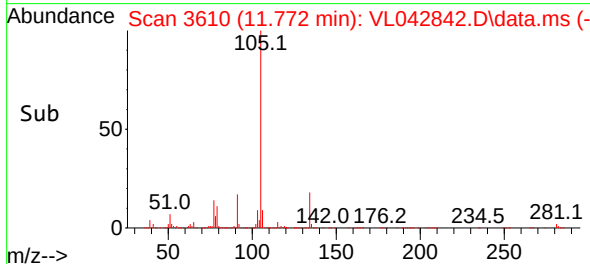
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



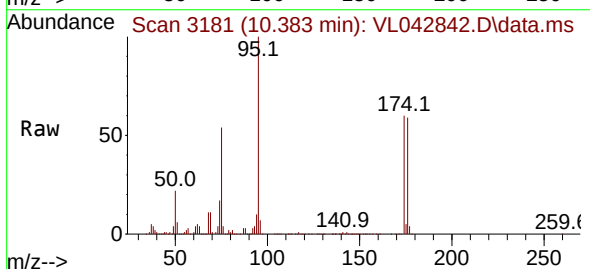
Tgt Ion: 105 Resp: 833378
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3

Manual Integrations
 APPROVED

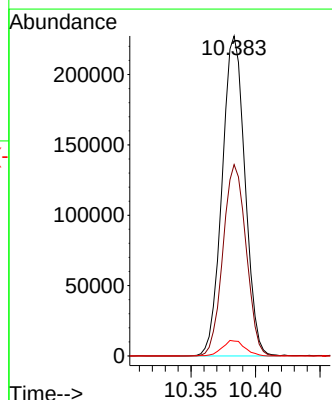
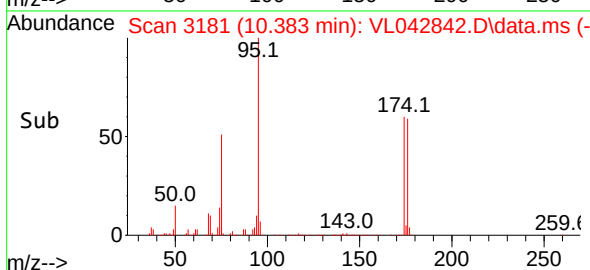
Reviewed By : Semsettin Yesilyurt 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

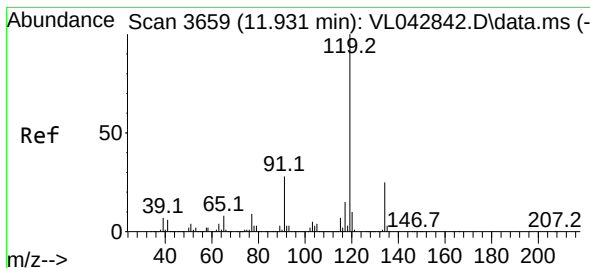


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.064 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30



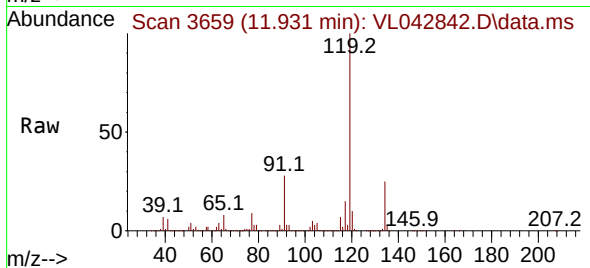
Tgt Ion: 95 Resp: 279557
 Ion Ratio Lower Upper
 95 100
 174 60.5 48.4 72.6
 175 4.8 3.8 5.8





#69
p-Isopropyltoluene
Concen: 8.820 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

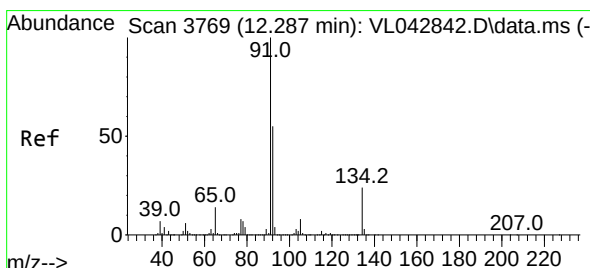
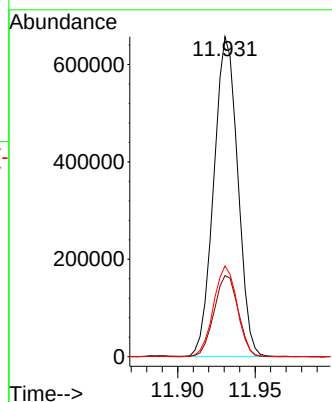
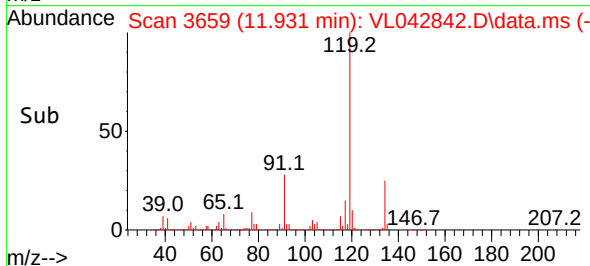
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



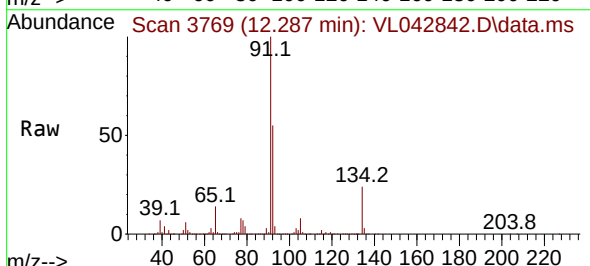
Tgt Ion:119 Resp: 705700
Ion Ratio Lower Upper
119 100
134 25.7 20.6 30.8
91 28.3 22.6 34.0

Manual Integrations
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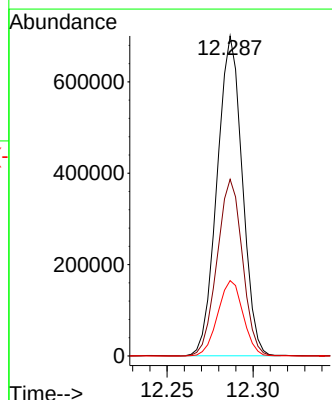
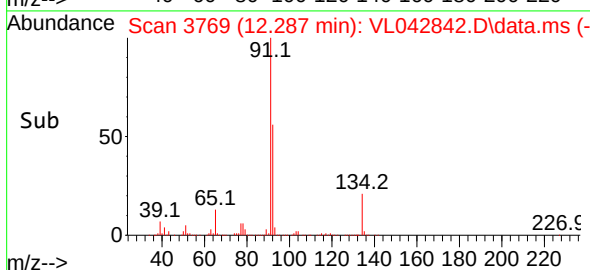
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

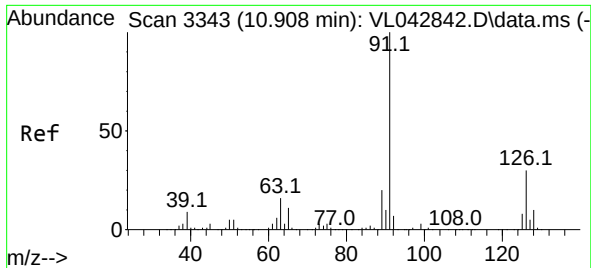


#70
n-Butylbenzene
Concen: 8.995 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



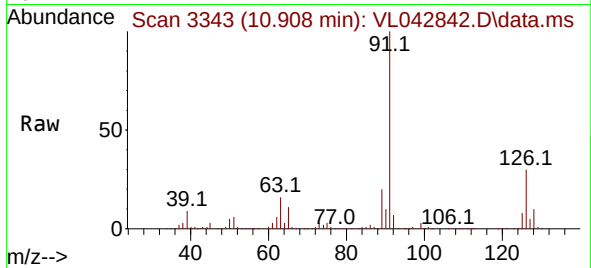
Tgt Ion: 91 Resp: 713713
Ion Ratio Lower Upper
91 100
92 55.7 44.6 66.8
134 23.7 19.0 28.4





#71
2-Chlorotoluene
Concen: 8.981 ppbv
RT: 10.908 min Scan# 3343
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

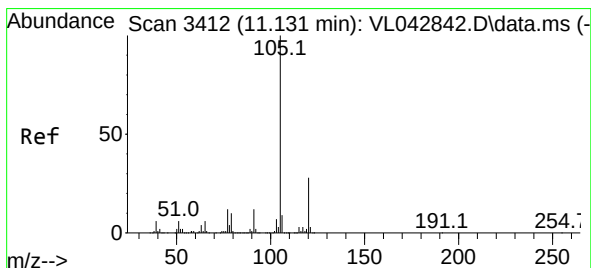
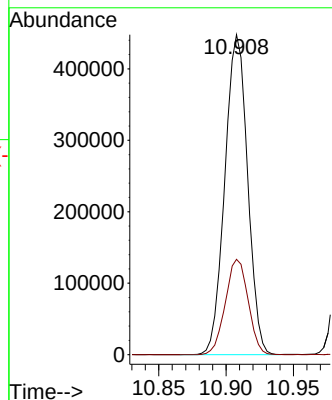
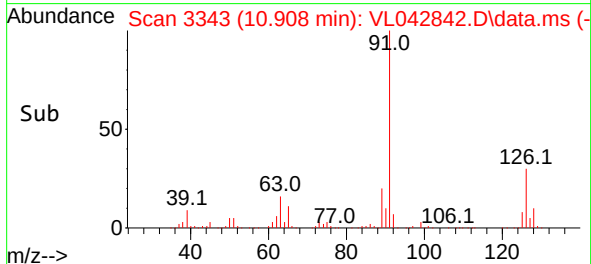
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



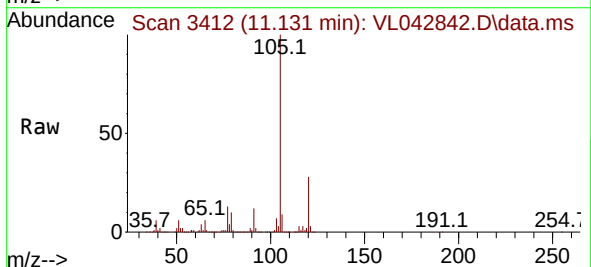
Tgt Ion: 91 Resp: 52523
Ion Ratio Lower Upper
91 100
126 29.9 12.0 47.8

Manual Integrations
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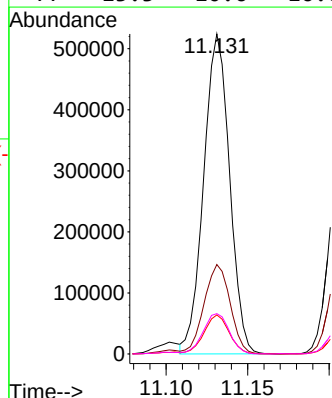
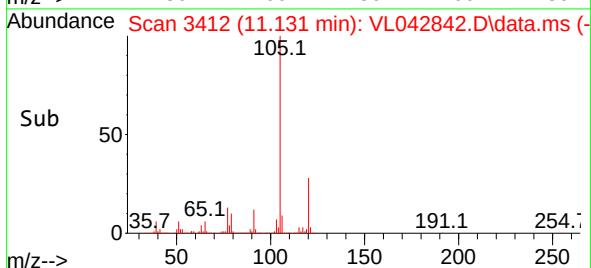
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

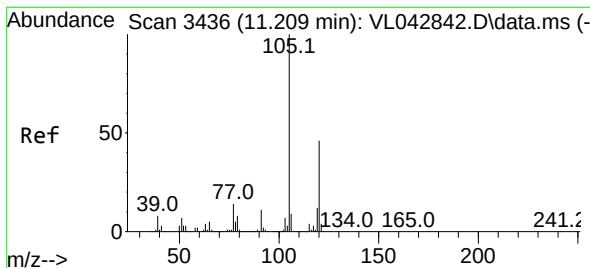


#72
4-Ethyltoluene
Concen: 9.267 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



Tgt Ion:105 Resp: 578931
Ion Ratio Lower Upper
105 100
120 29.3 23.4 35.2
91 12.2 9.8 14.6
77 13.3 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 9.012 ppbv

RT: 11.209 min Scan# 3436

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:105 Resp: 478784

Ion Ratio Lower Upper

105 100

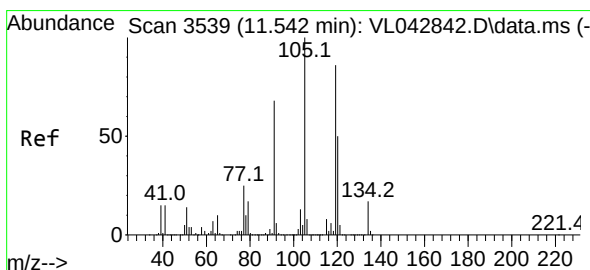
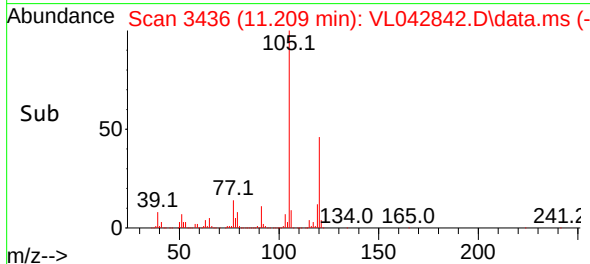
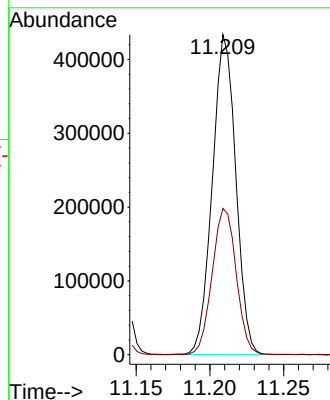
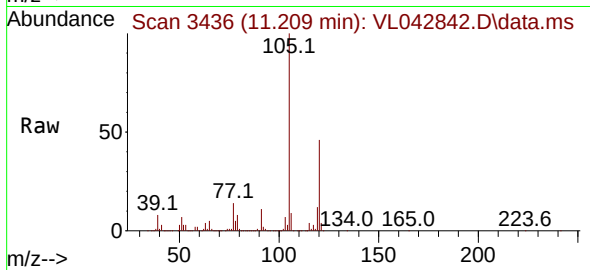
120 45.7 36.6 54.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.853 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Tgt Ion:105 Resp: 516253

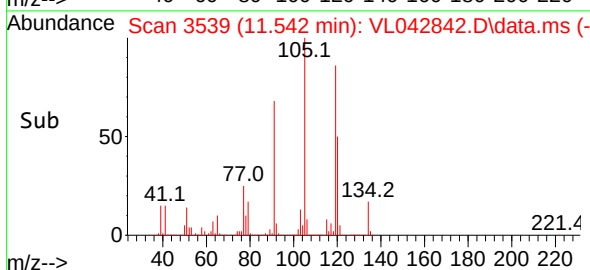
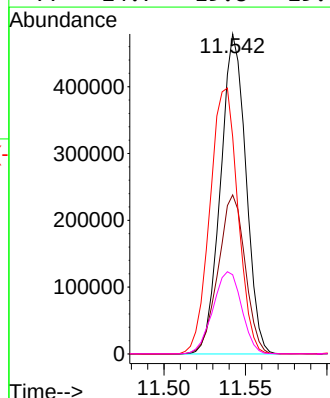
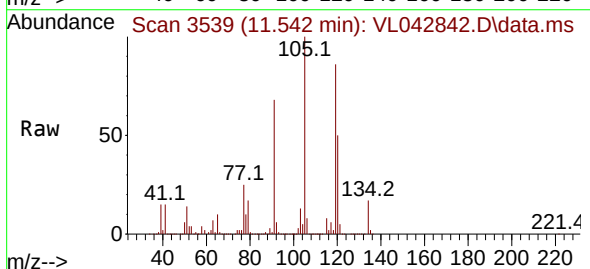
Ion Ratio Lower Upper

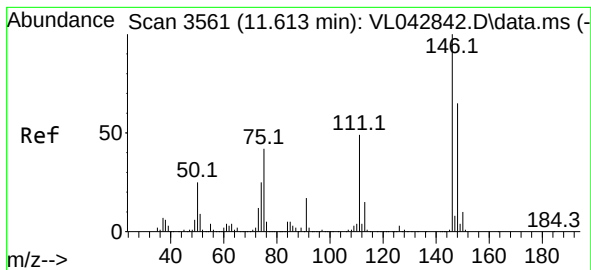
105 100

120 49.7 39.8 59.6

91 67.8 54.2 81.4

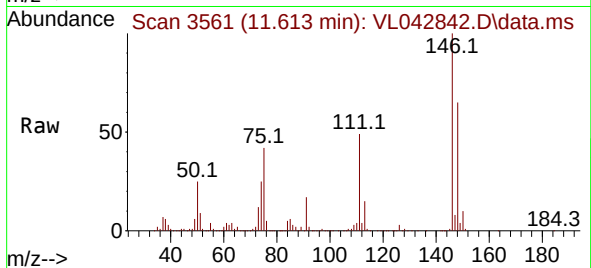
77 24.7 19.8 29.6





#75
1,3-Dichlorobenzene
Concen: 9.280 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

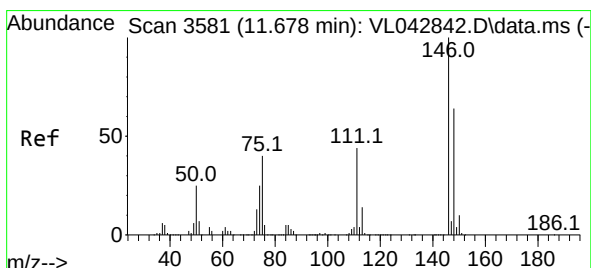
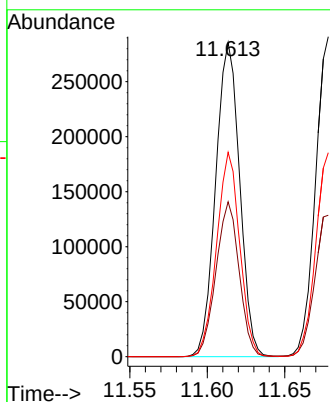
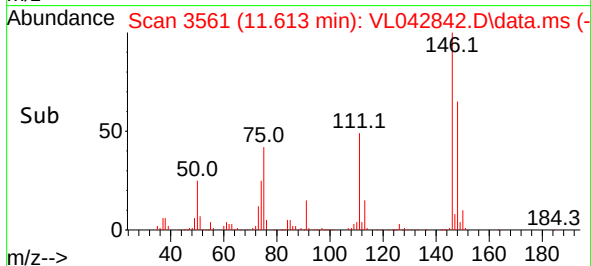
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



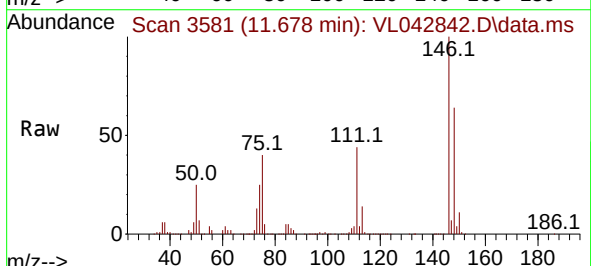
Tgt Ion:146 Resp: 307640
Ion Ratio Lower Upper
146 100
111 47.8 23.9 71.7
148 62.7 31.4 94.0

Manual Integrations
APPROVED

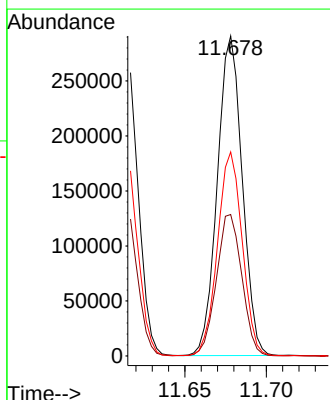
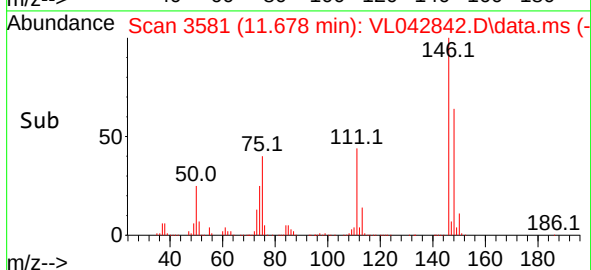
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

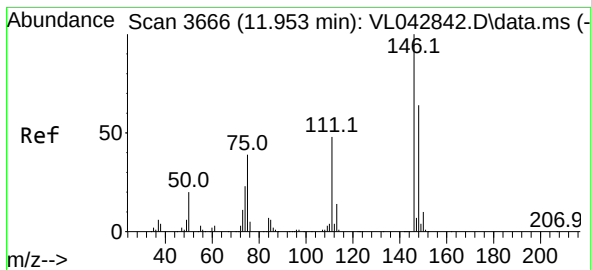


#76
1,4-Dichlorobenzene
Concen: 9.203 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30



Tgt Ion:146 Resp: 308542
Ion Ratio Lower Upper
146 100
111 45.4 22.7 68.1
148 63.5 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 8.907 ppbv

RT: 11.953 min Scan# 3666

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:146 Resp: 289119

Ion Ratio Lower Upper

146 100

111 49.3 24.6 74.0

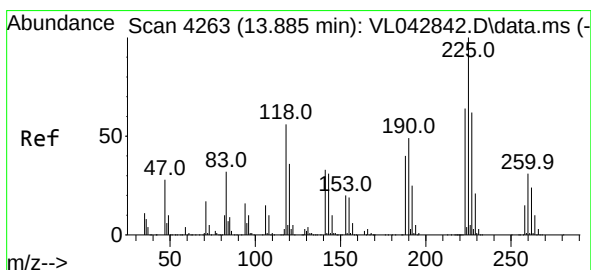
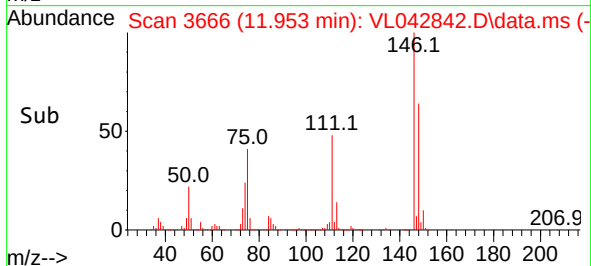
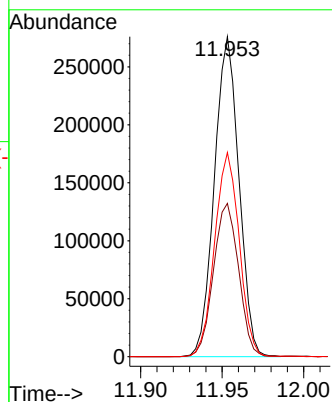
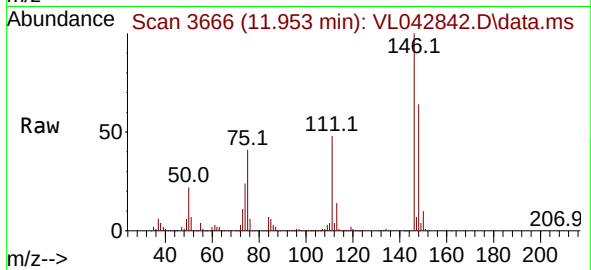
148 64.0 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#78

Hexachloro-1,3-Butadiene

Concen: 7.968 ppbv

RT: 13.885 min Scan# 4263

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

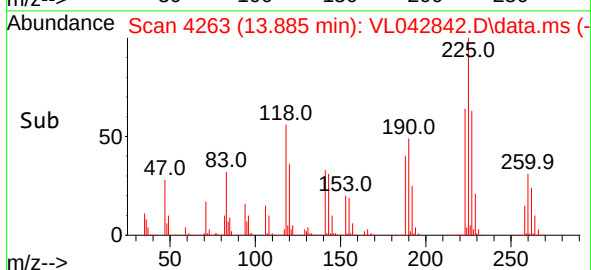
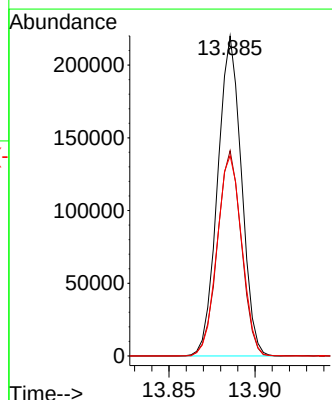
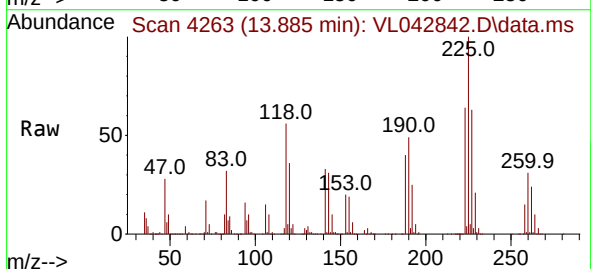
Tgt Ion:225 Resp: 211996

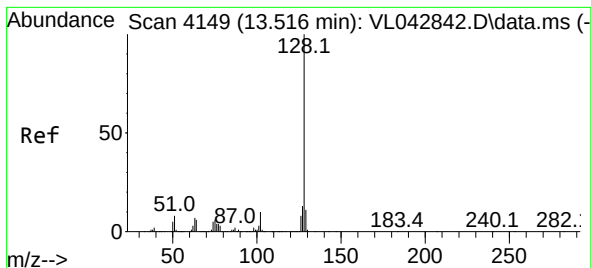
Ion Ratio Lower Upper

225 100

223 64.3 51.4 77.2

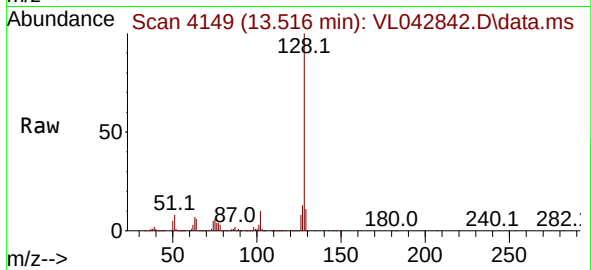
227 64.9 51.9 77.9





#79
Naphthalene
Concen: 9.335 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

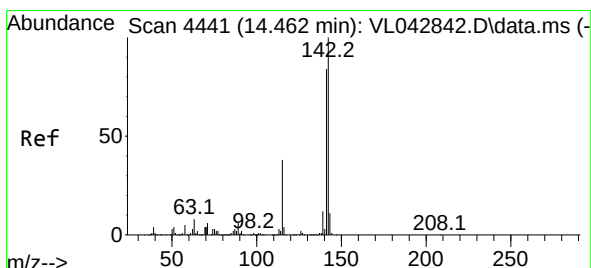
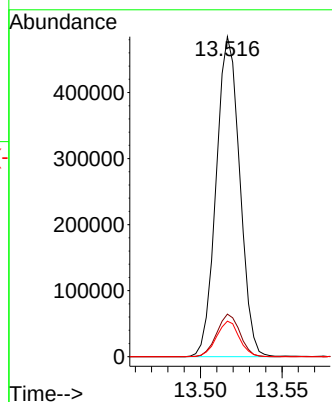
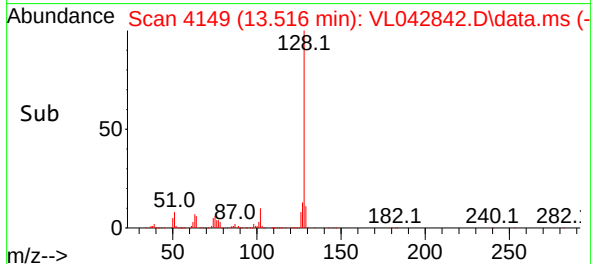
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:128 Resp: 487174
Ion Ratio Lower Upper
128 100
127 13.3 10.6 16.0
129 11.1 8.9 13.3

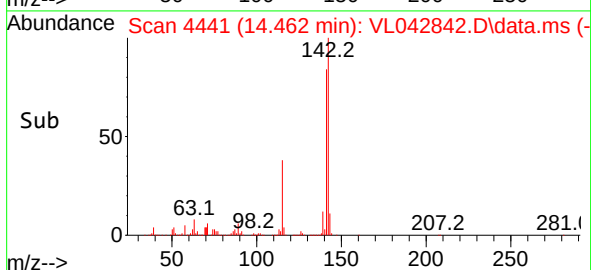
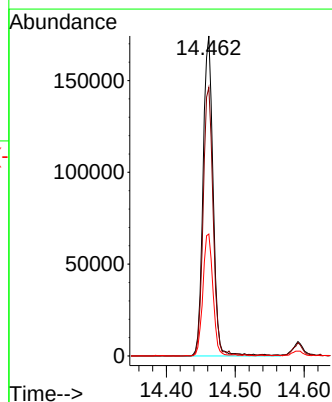
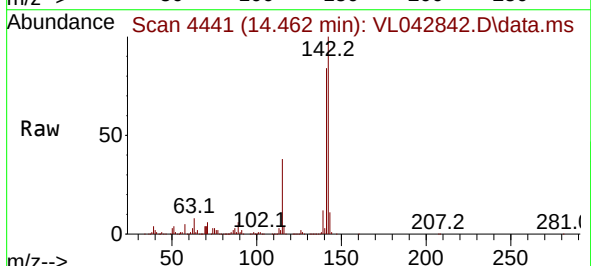
Manual Integrations
APPROVED

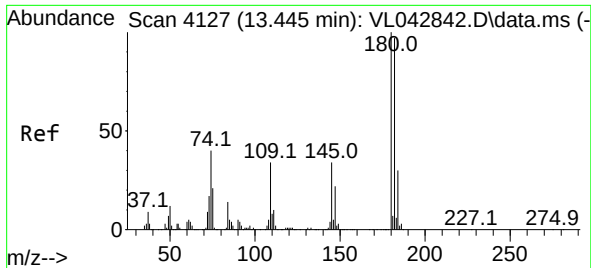
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#80
Naphthalene,2-methyl-
Concen: 9.000 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

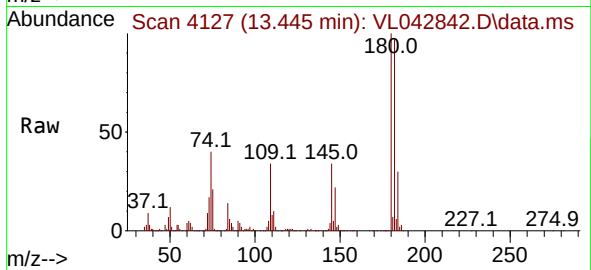
Tgt Ion:142 Resp: 176880
Ion Ratio Lower Upper
142 100
141 83.8 67.0 100.6
115 38.6 30.9 46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 9.220 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

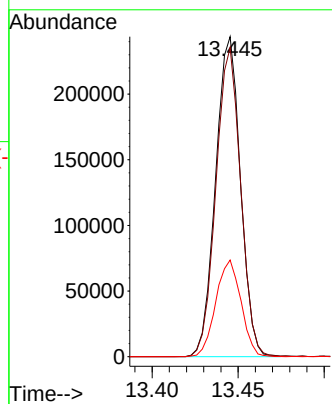
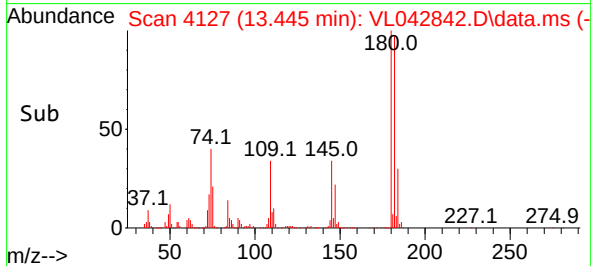
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:180 Resp: 244998
 Ion Ratio Lower Upper
 180 100
 182 96.1 76.9 115.3
 184 30.6 24.5 36.7

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



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_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	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 : VL042843.D
 Acq On : 13 Aug 2025 09:06
 Operator : SY/MD
 Sample : VSTDIC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

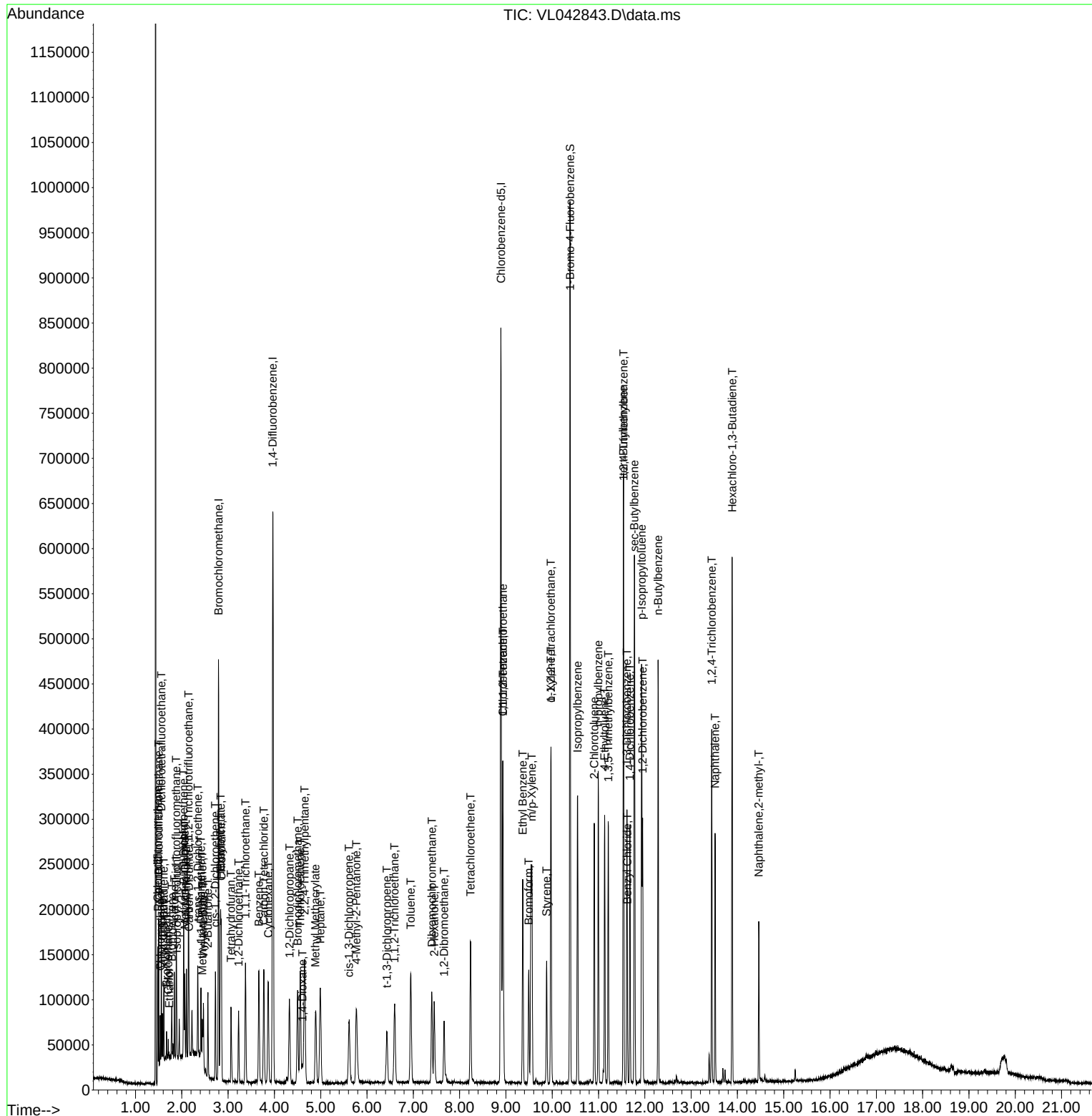
Quant Time: Aug 14 01:46:30 2025

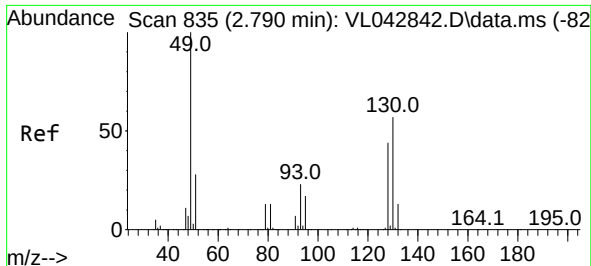
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 01:44:36 2025

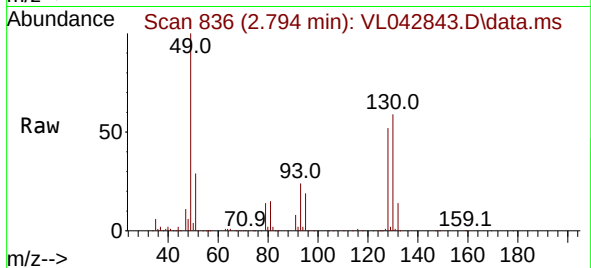
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 835
Delta R.T. 0.004 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

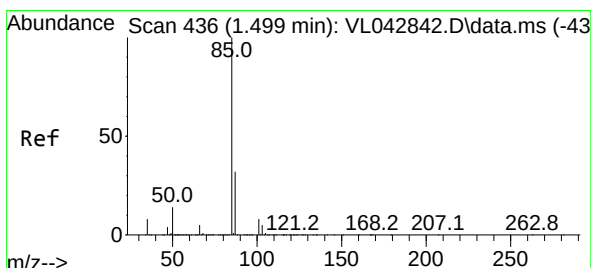
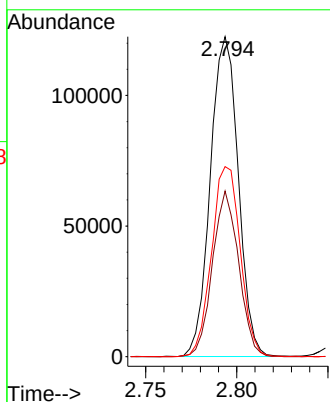
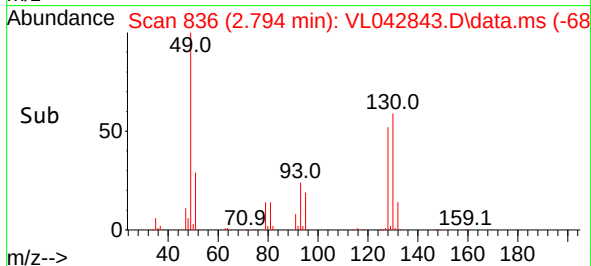
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 49 Resp: 13055
Ion Ratio Lower Upper
49 100
128 48.7 23.7 71.1
130 61.3 30.6 91.6

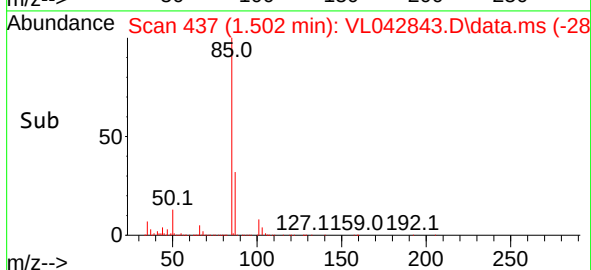
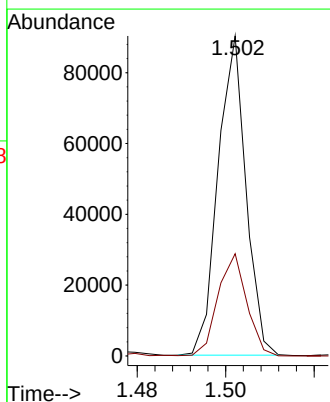
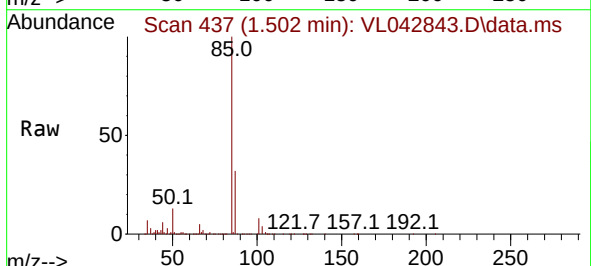
Manual Integrations
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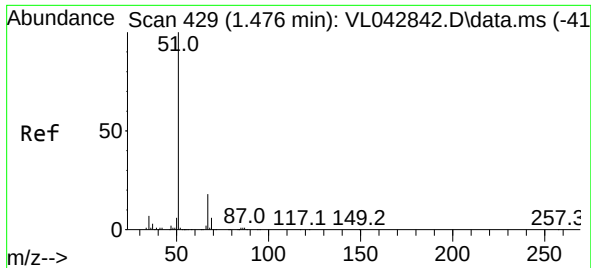
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#2
Dichlorodifluoromethane
Concen: 2.061 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

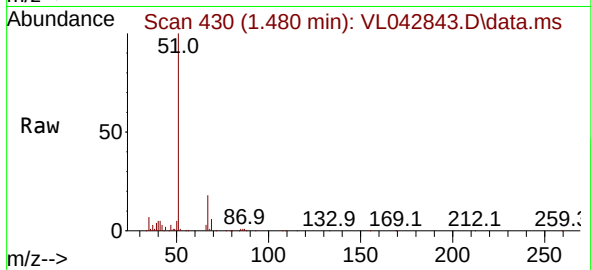
Tgt Ion: 85 Resp: 39443
Ion Ratio Lower Upper
85 100
87 32.0 25.3 37.9





#3
Chlorodifluoromethane
Concen: 2.114 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

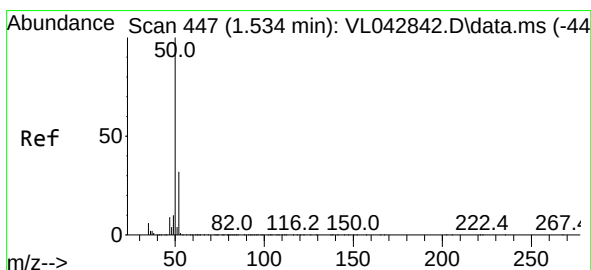
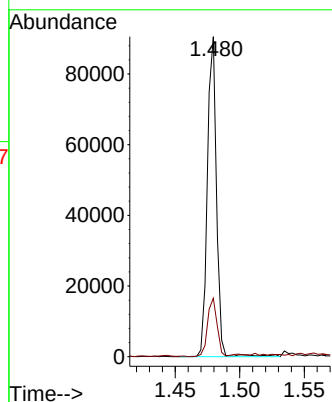
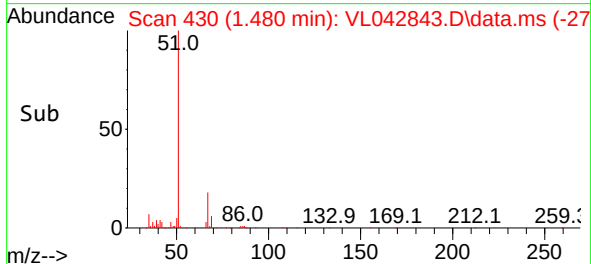
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



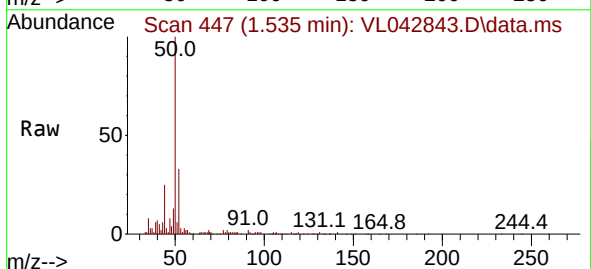
Tgt Ion: 51 Resp: 44759
Ion Ratio Lower Upper
51 100
67 20.3 14.9 22.3

Manual Integrations
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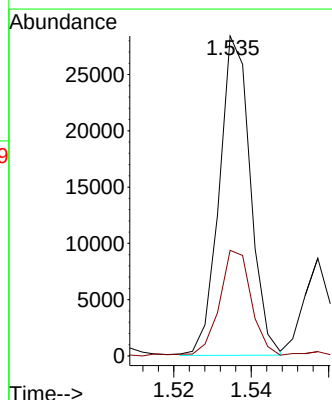
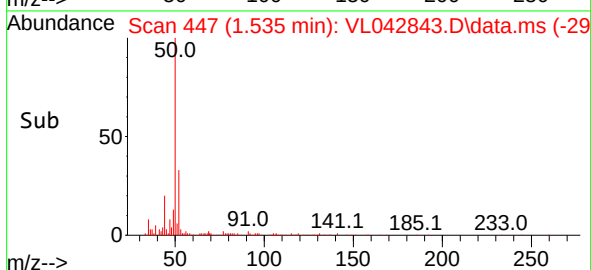
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

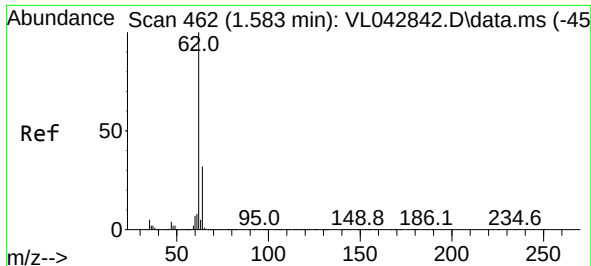


#4
Chloromethane
Concen: 2.050 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



Tgt Ion: 50 Resp: 15826
Ion Ratio Lower Upper
50 100
52 33.0 25.9 38.9





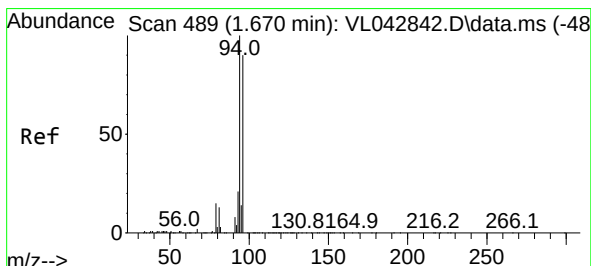
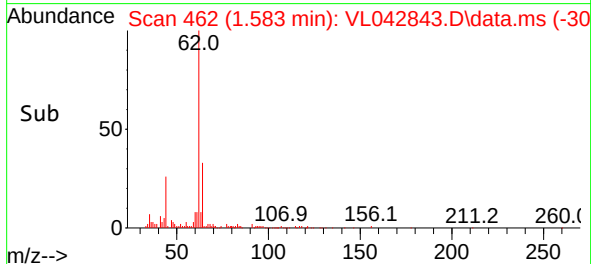
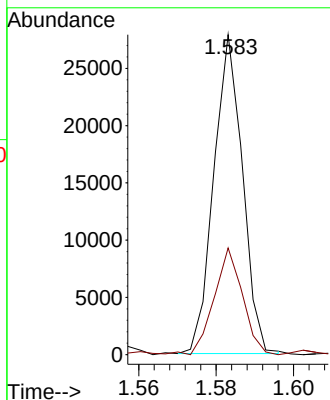
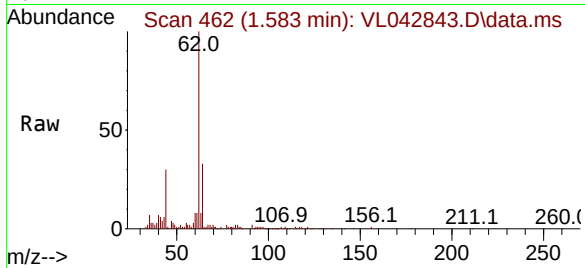
#5
 Vinyl Chloride
 Concen: 1.888 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

Tgt Ion: 62 Resp: 14358
 Ion Ratio Lower Upper
 62 100
 64 33.5 25.4 38.2

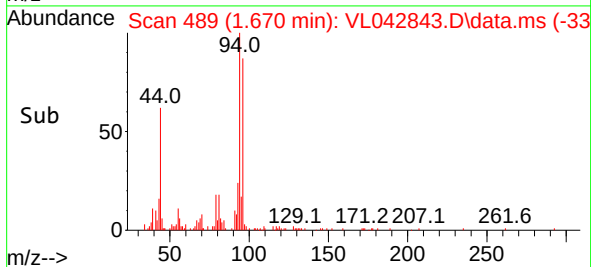
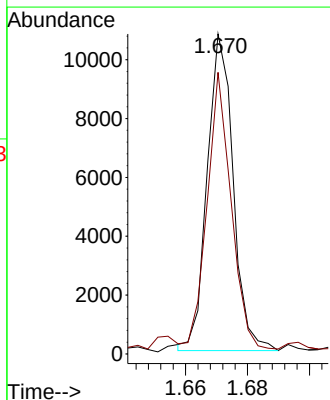
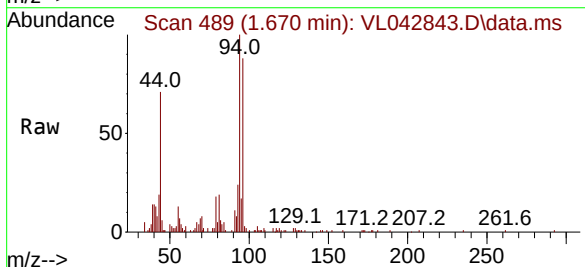
Manual Integrations
 APPROVED

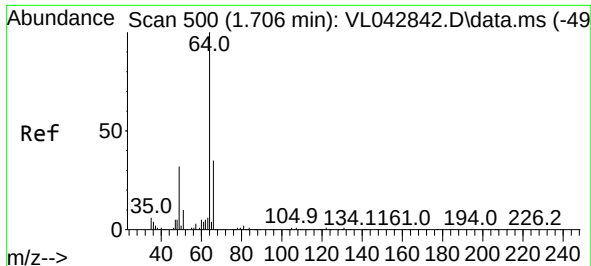
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#6
 Bromomethane
 Concen: 2.055 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

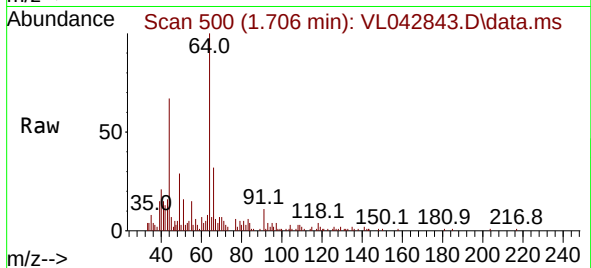
Tgt Ion: 94 Resp: 6248
 Ion Ratio Lower Upper
 94 100
 96 87.4 72.1 108.1





#7
Chloroethane
Concen: 1.925 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

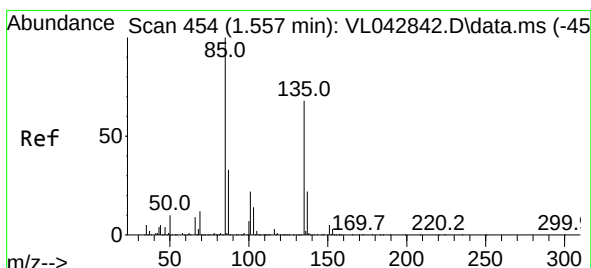
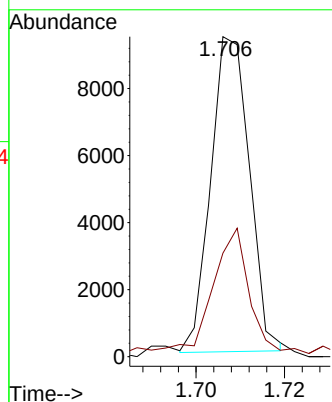
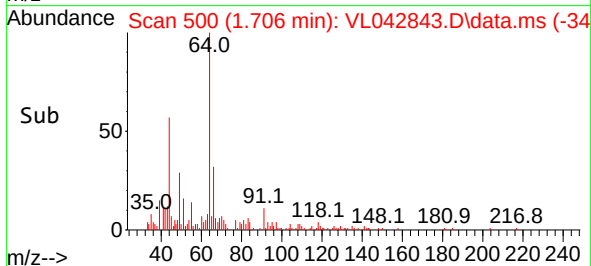
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



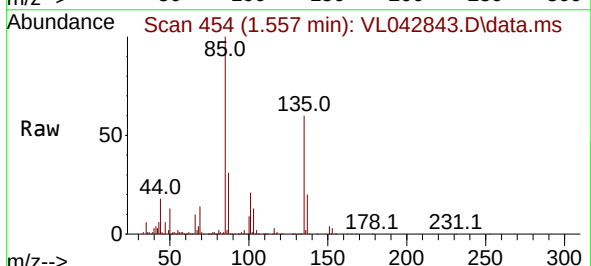
Tgt Ion: 64 Resp: 571
Ion Ratio Lower Upper
64 100
66 32.3 28.6 42.8

Manual Integrations
APPROVED

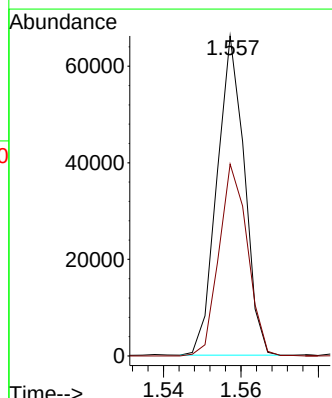
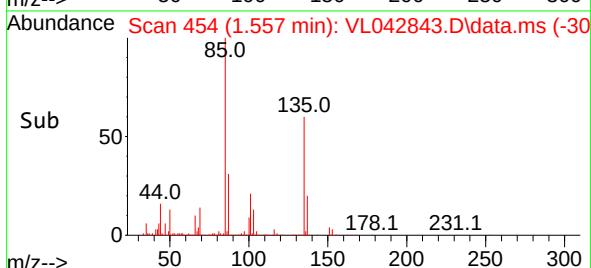
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

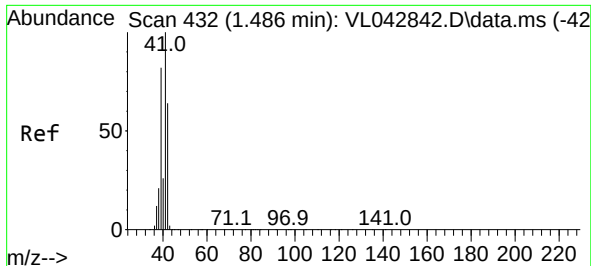


#8
Dichlorotetrafluoroethane
Concen: 2.075 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



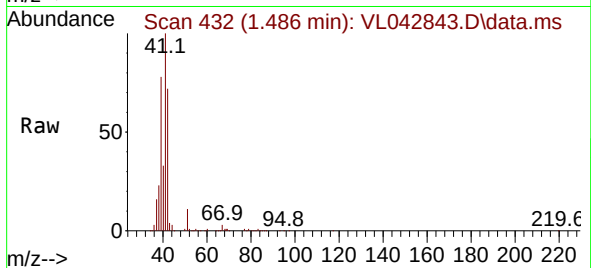
Tgt Ion: 85 Resp: 32496
Ion Ratio Lower Upper
85 100
135 62.7 51.2 76.8





#9
 Propene
 Concen: 2.045 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

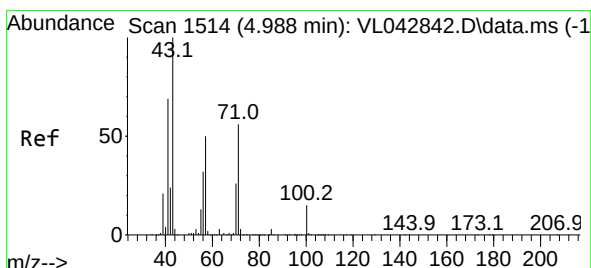
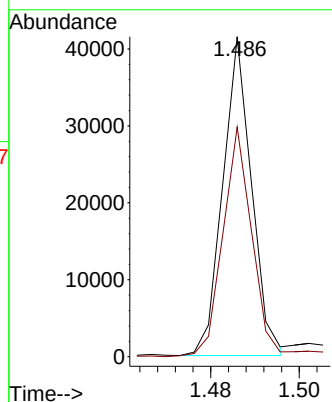
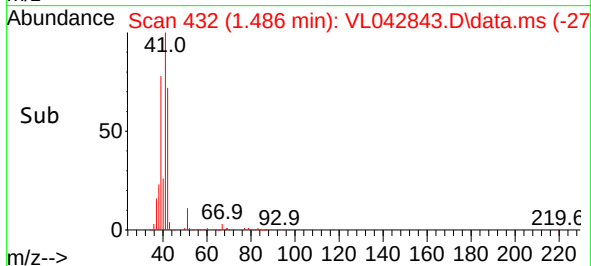
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



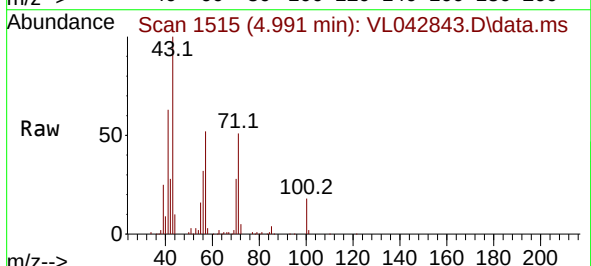
Tgt Ion: 41 Resp: 18678
 Ion Ratio Lower Upper
 41 100
 42 74.8 53.0 79.4

Manual Integrations
 APPROVED

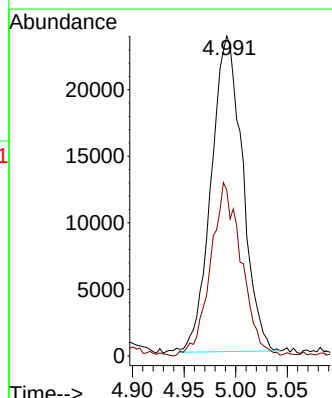
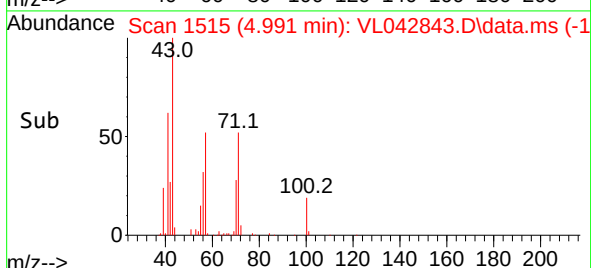
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

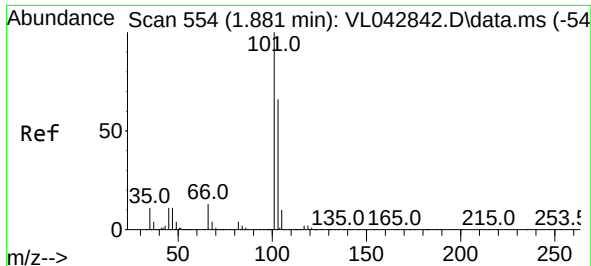


#10
 Heptane
 Concen: 2.050 ppbv
 RT: 4.991 min Scan# 1515
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06



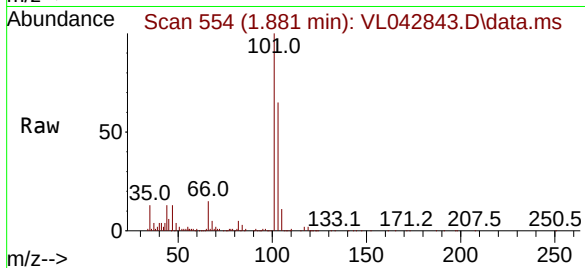
Tgt Ion: 43 Resp: 50062
 Ion Ratio Lower Upper
 43 100
 57 54.1 41.4 62.0





#11
Trichlorofluoromethane
Concen: 2.029 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

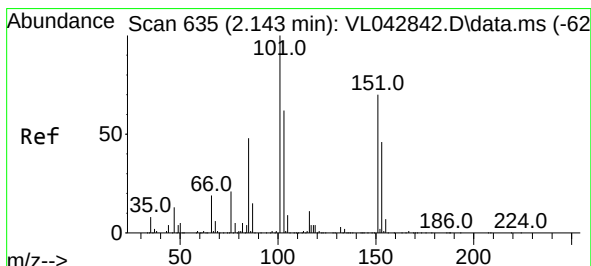
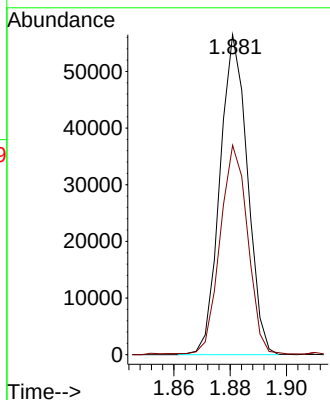
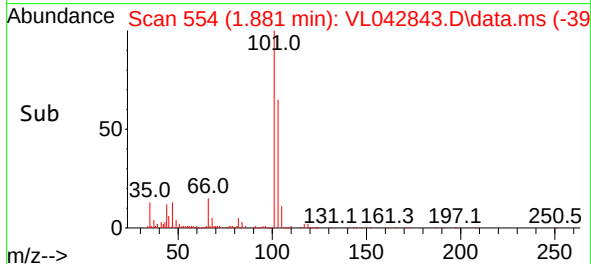
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



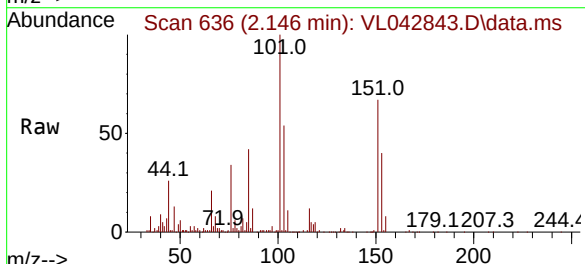
Tgt Ion:101 Resp: 38308
Ion Ratio Lower Upper
101 100
103 65.1 52.5 78.7

Manual Integrations
APPROVED

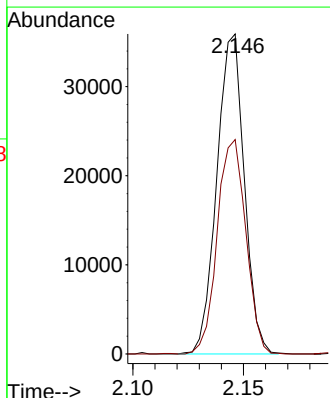
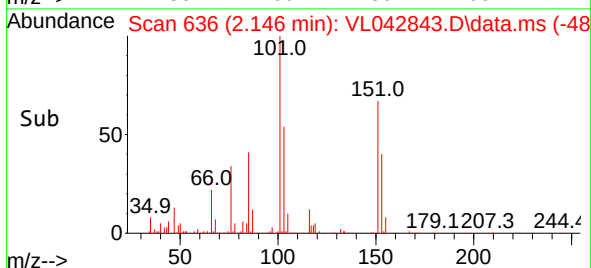
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

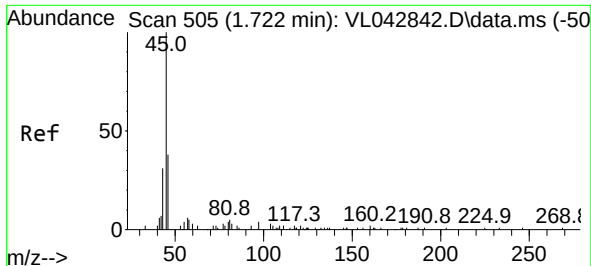


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.064 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



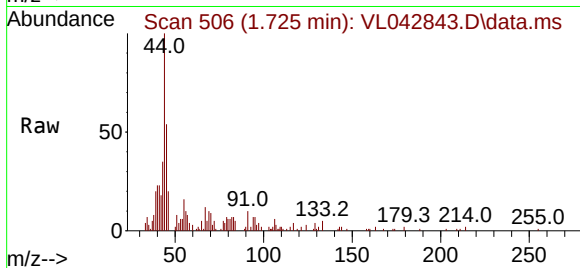
Tgt Ion:101 Resp: 31052
Ion Ratio Lower Upper
101 100
151 69.7 56.4 84.6





#13
Ethanol
Concen: 2.008 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

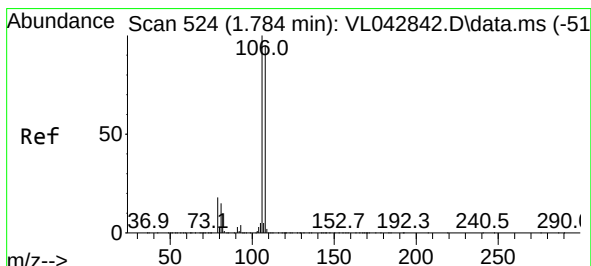
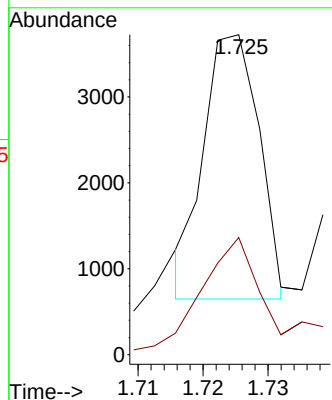
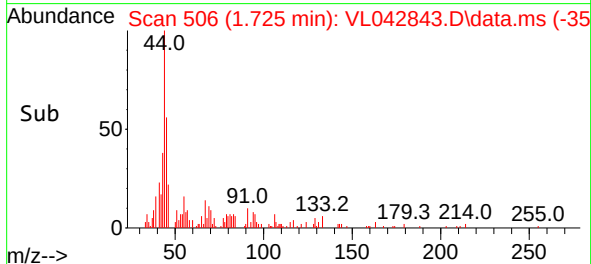
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



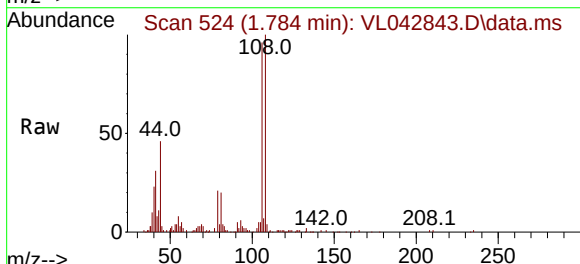
Tgt Ion: 45 Resp: 181
Ion Ratio Lower Upper
45 100
46 60.5 17.5 69.9

Manual Integrations
APPROVED

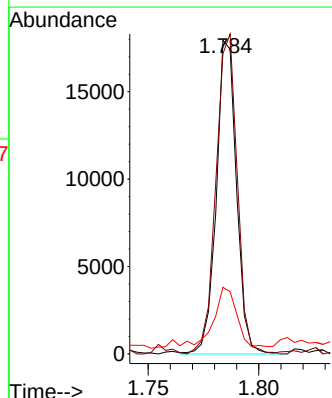
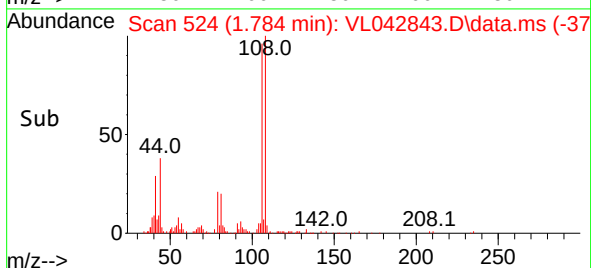
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

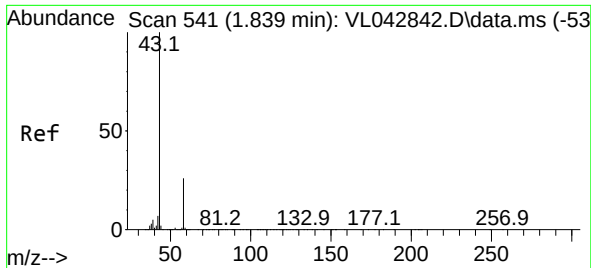


#14
Bromoethene
Concen: 2.089 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



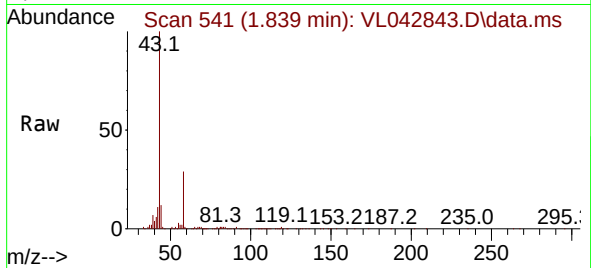
Tgt Ion:108 Resp: 11376
Ion Ratio Lower Upper
108 100
106 110.8 85.1 127.7
79 22.6 16.3 24.5





#15
Acetone
Concen: 2.231 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

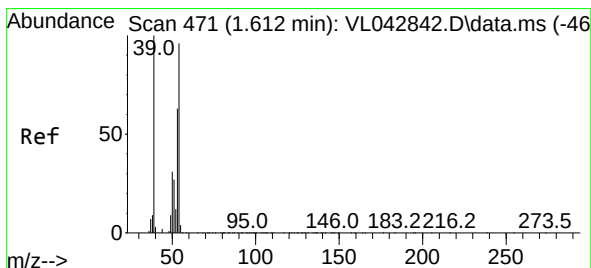
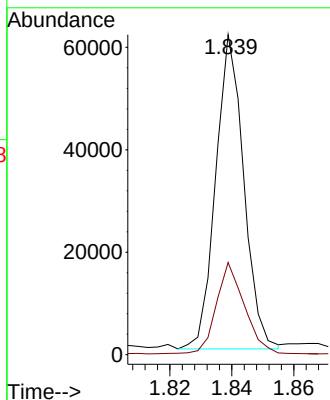
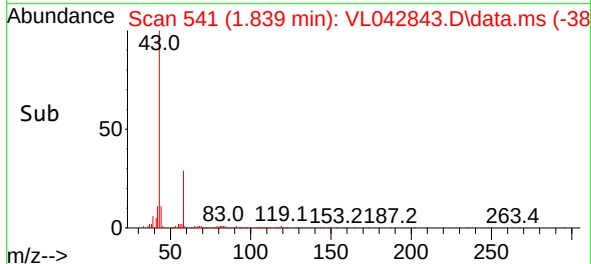
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



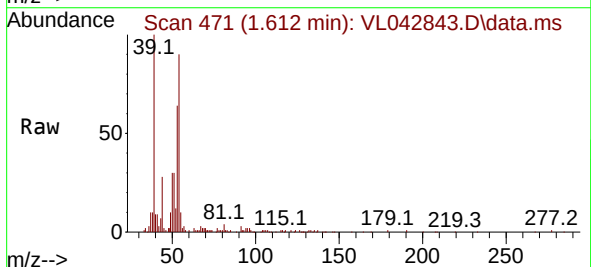
Tgt Ion: 43 Resp: 3853
Ion Ratio Lower Upper
43 100
58 30.3 22.4 33.6

Manual Integrations
APPROVED

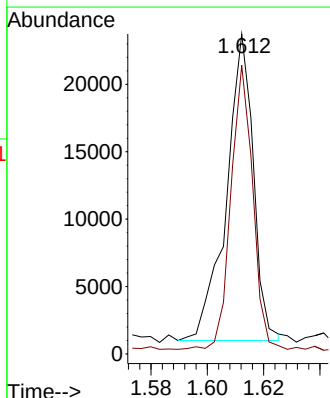
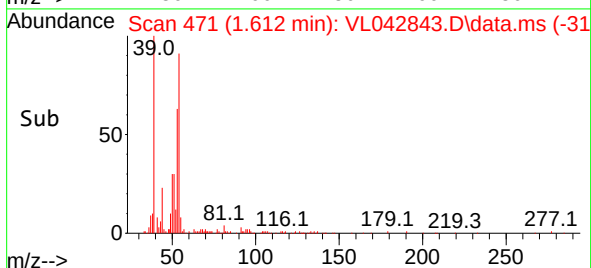
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

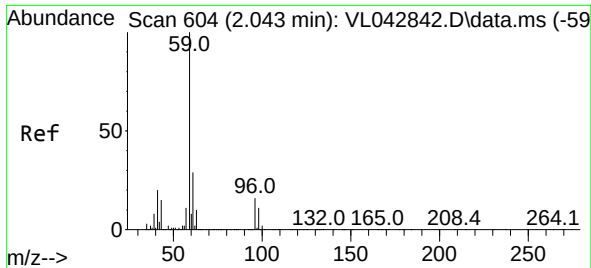


#16
1,3-Butadiene
Concen: 1.932 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



Tgt Ion: 39 Resp: 15122
Ion Ratio Lower Upper
39 100
54 80.8 63.6 95.4





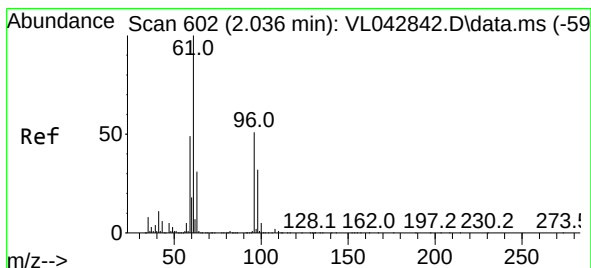
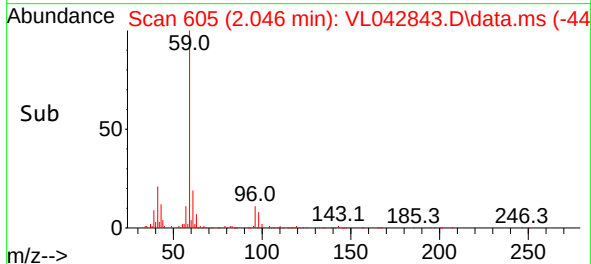
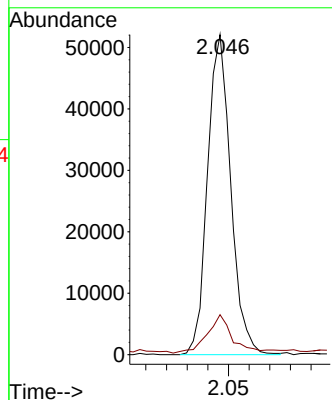
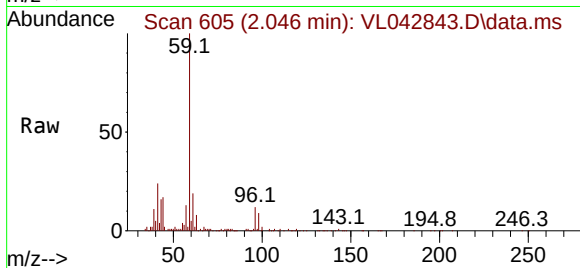
#17
tert-Butyl alcohol
Concen: 1.985 ppbv
RT: 2.046 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 59 Resp: 40652
Ion Ratio Lower Upper
59 100
57 12.4 9.0 13.4

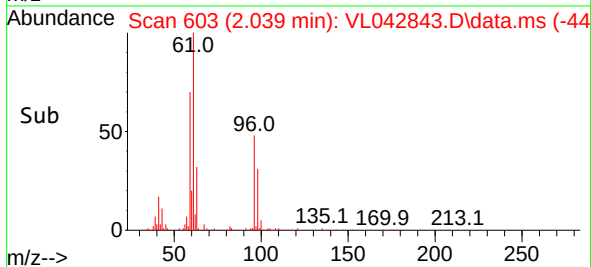
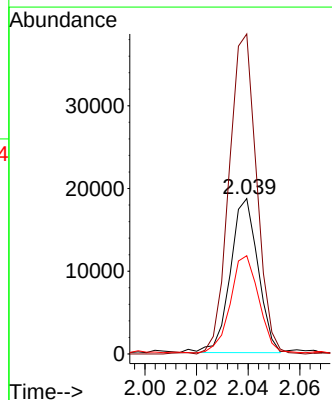
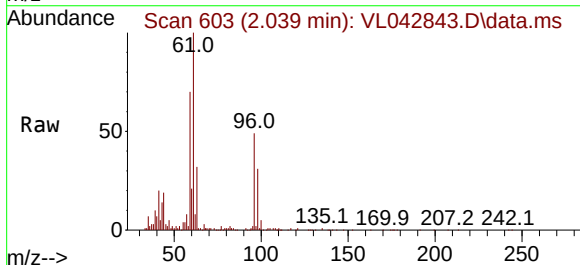
Manual Integrations
APPROVED

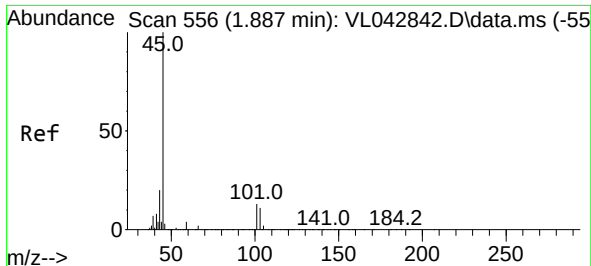
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#18
1,1-Dichloroethene
Concen: 2.099 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 96 Resp: 13883
Ion Ratio Lower Upper
96 100
61 207.1 158.2 237.4
98 62.6 50.6 76.0





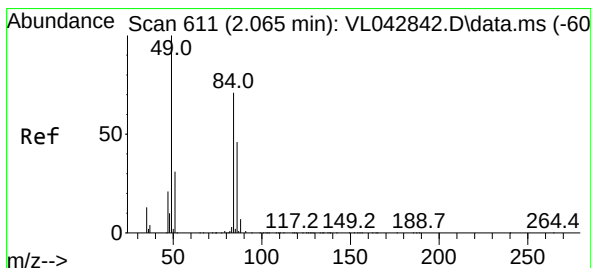
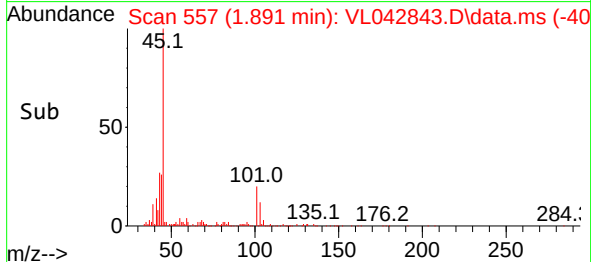
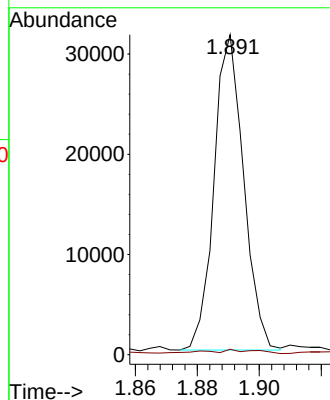
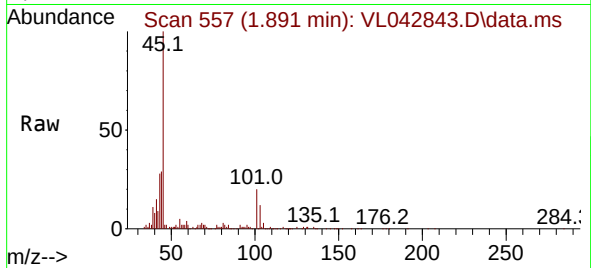
#19
Isopropyl Alcohol
Concen: 2.023 ppbv
RT: 1.891 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 20860
Ion Ratio Lower Upper
45 100
58 3.1 32.7 49.1

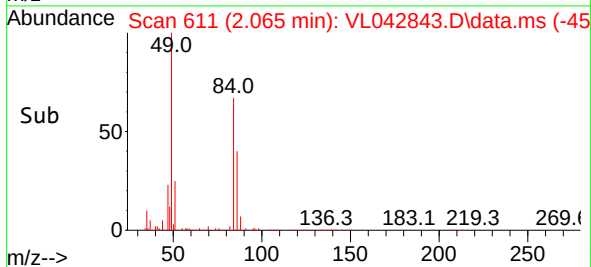
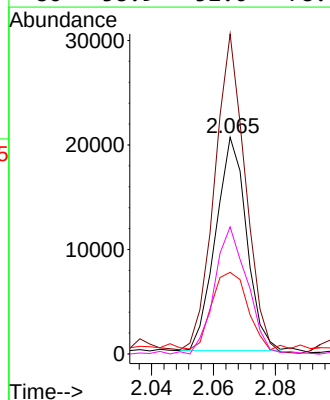
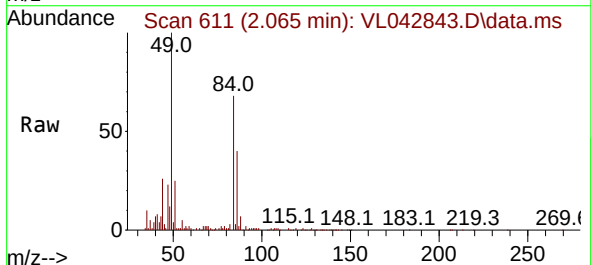
Manual Integrations
APPROVED

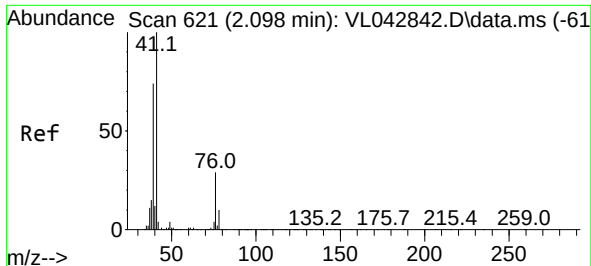
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#20
Methylene Chloride
Concen: 1.963 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 84 Resp: 14204
Ion Ratio Lower Upper
84 100
49 148.1 112.3 168.5
51 35.3 36.0 54.0#
86 58.9 52.0 78.0





#21
 Allyl Chloride
 Concen: 2.021 ppbv
 RT: 2.101 min Scan# 611
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

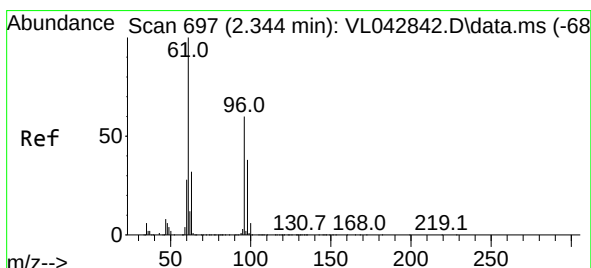
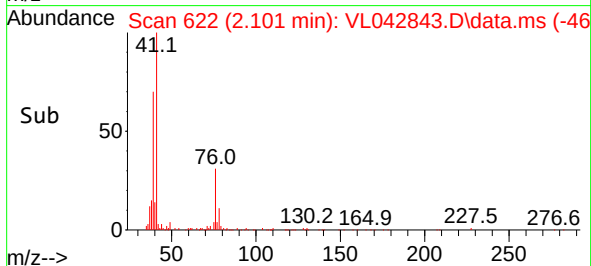
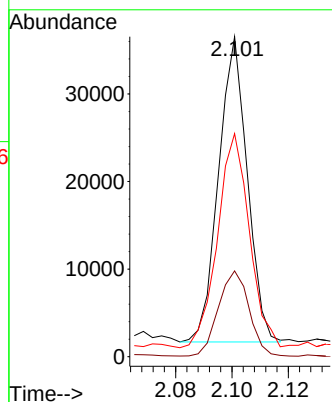
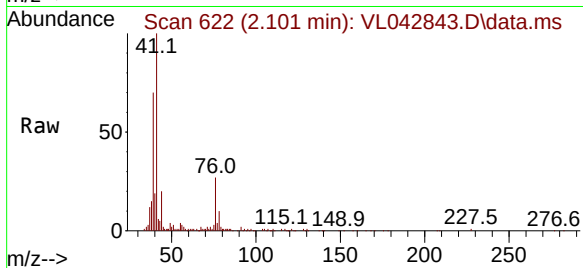
VSTDIC002

Tgt Ion: 41 Resp: 24662
 Ion Ratio Lower Upper
 41 100
 76 31.2 23.9 35.9
 39 76.0 57.8 86.6

Manual Integrations

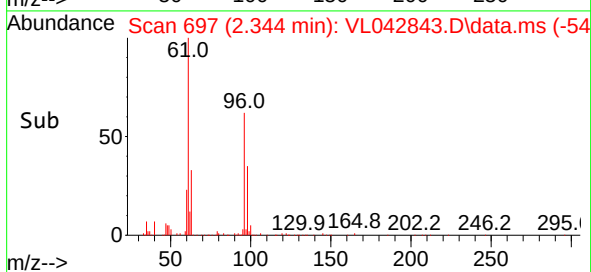
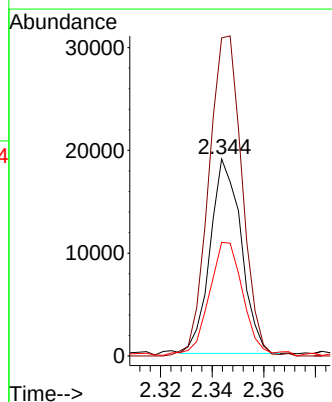
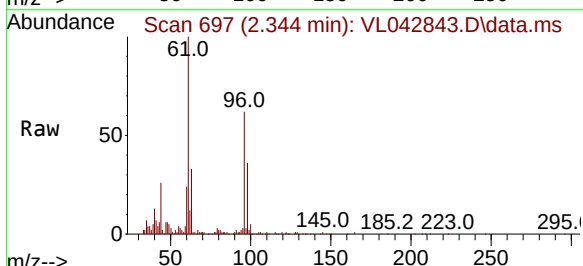
APPROVED

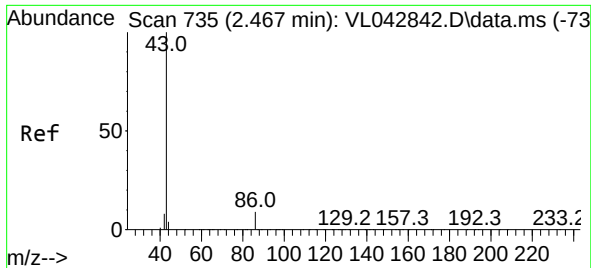
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#22
 trans-1,2-Dichloroethene
 Concen: 2.132 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion: 96 Resp: 15773
 Ion Ratio Lower Upper
 96 100
 61 162.8 132.6 199.0
 98 56.7 50.0 75.0





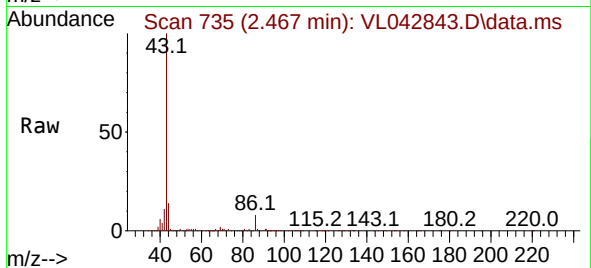
#23
 Vinyl Acetate
 Concen: 2.125 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

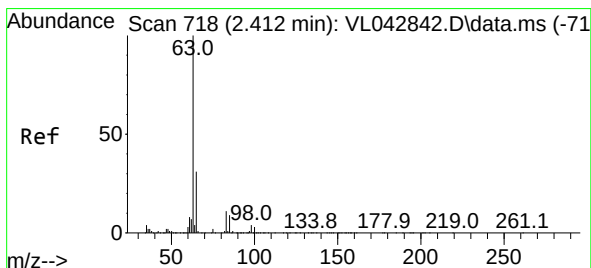
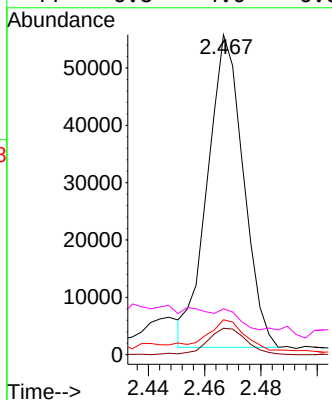
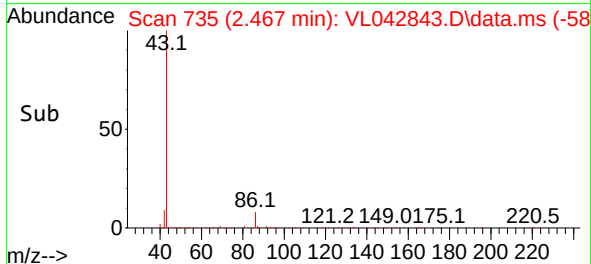


Tgt Ion:	43	Resp:	48269
Ion Ratio	100	Lower	Upper
43	100		
86	8.2	6.6	9.8
42	9.7	7.0	10.6
44	6.8	4.0	6.0

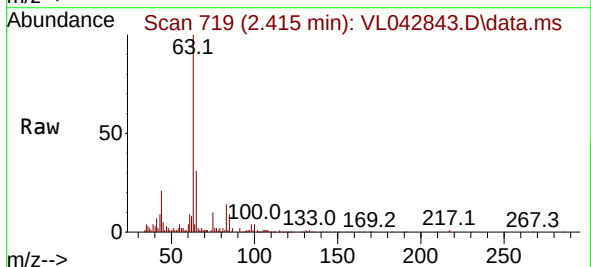
Manual Integrations

APPROVED

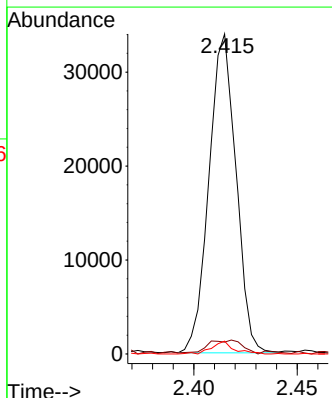
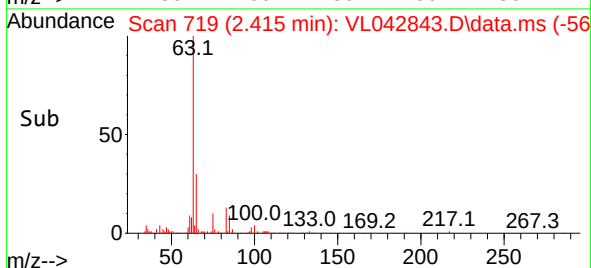
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

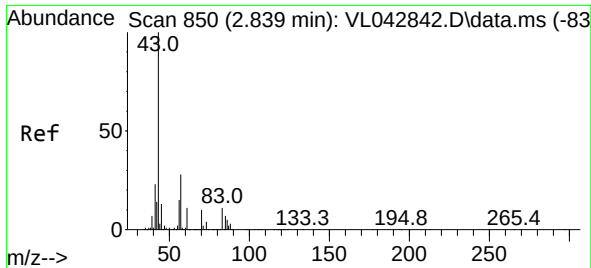


#24
 1,1-Dichloroethane
 Concen: 2.024 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06



Tgt Ion:	63	Resp:	30931
Ion Ratio	100	Lower	Upper
63	100		
98	3.4	2.1	6.5
100	4.0	1.7	5.1





#25
Ethyl Acetate
Concen: 2.077 ppbv
RT: 2.842 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

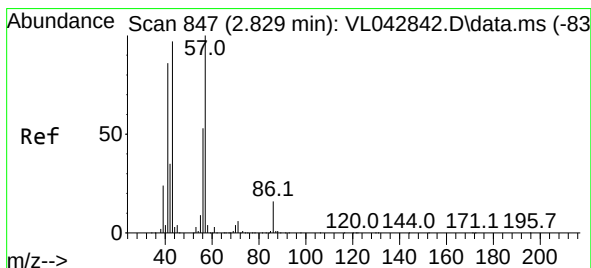
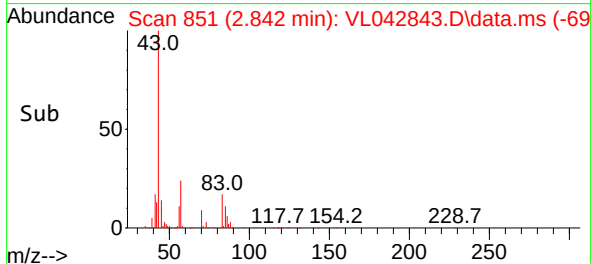
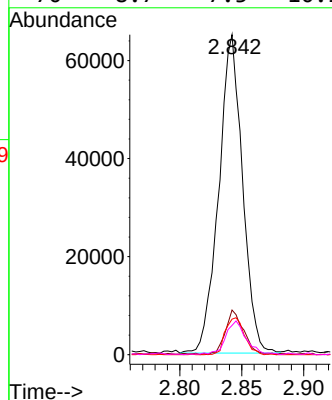
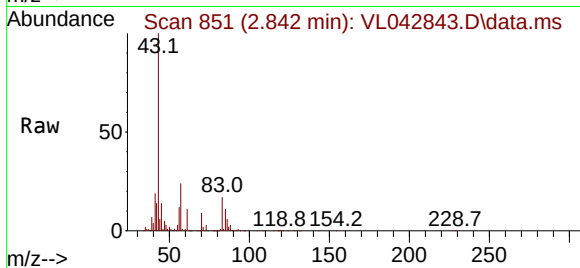
VSTDIC002

Tgt Ion: 43 Resp: 86804
Ion Ratio Lower Upper
43 100
45 11.4 8.1 12.1
61 9.4 7.4 11.2
70 8.7 7.3 10.9

Manual Integrations

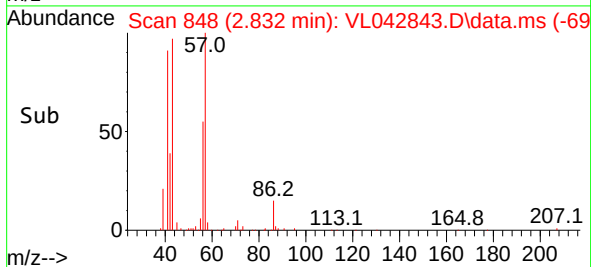
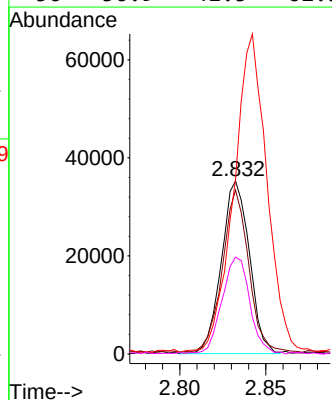
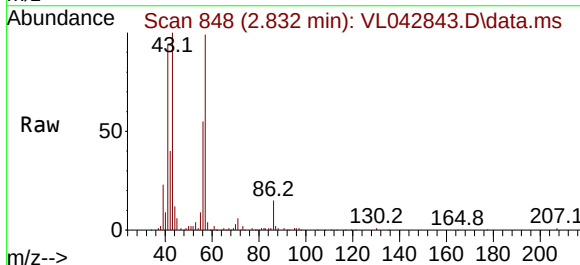
APPROVED

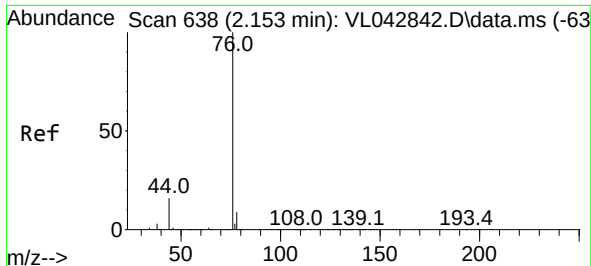
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#26
Hexane
Concen: 2.060 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

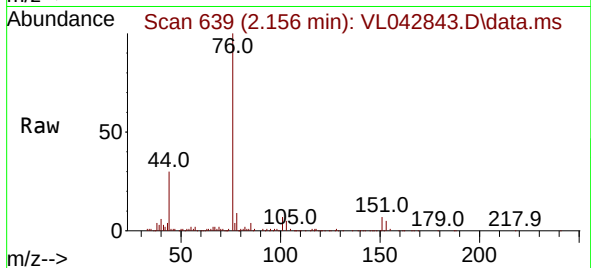
Tgt Ion: 57 Resp: 39735
Ion Ratio Lower Upper
57 100
41 90.3 68.6 103.0
43 219.4 168.5 252.7
56 56.9 41.5 62.3





#27
Carbon Disulfide
Concen: 2.102 ppbv
RT: 2.156 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

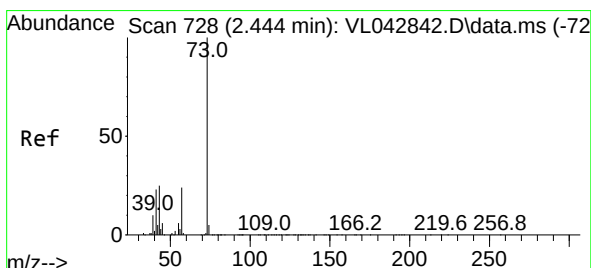
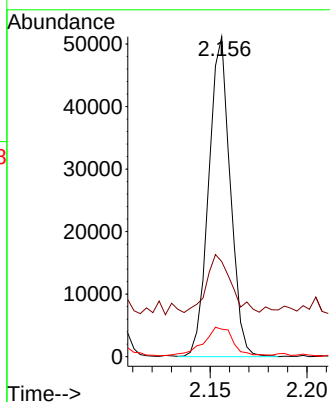
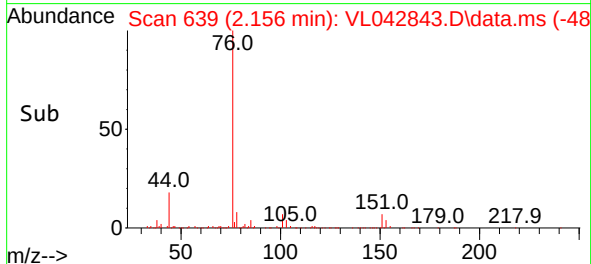
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



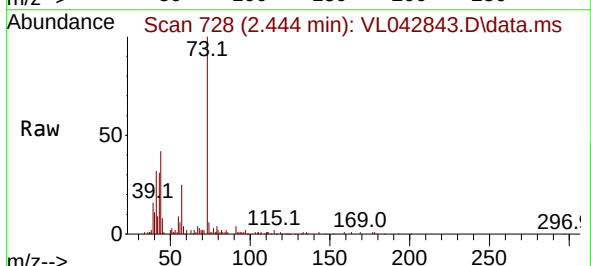
Tgt Ion: 76 Resp: 39460
Ion Ratio Lower Upper
76 100
44 81.0 15.9 23.9
78 13.8 9.5 14.3

Manual Integrations
APPROVED

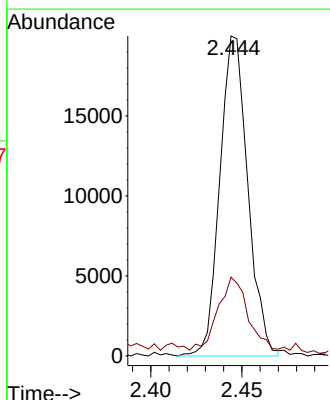
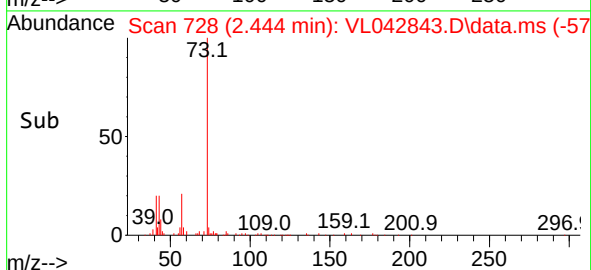
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

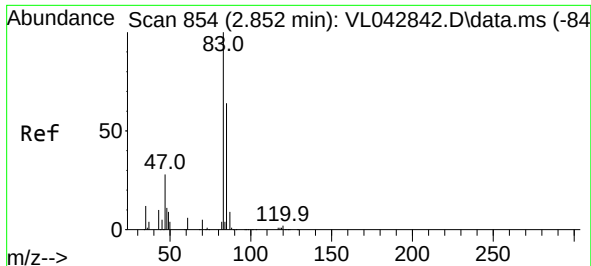


#28
Methyl tert-Butyl Ether
Concen: 2.169 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



Tgt Ion: 73 Resp: 21341
Ion Ratio Lower Upper
73 100
57 24.8 21.6 32.4





#29

Chloroform

Concen: 2.053 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 83 Resp: 5655

Ion Ratio Lower Upper

83 100

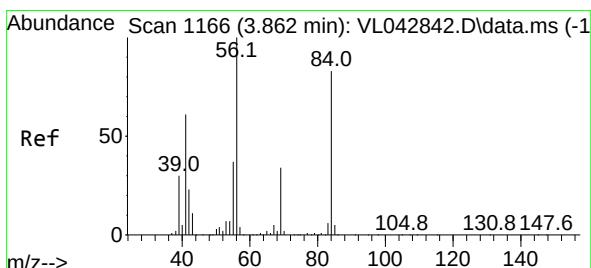
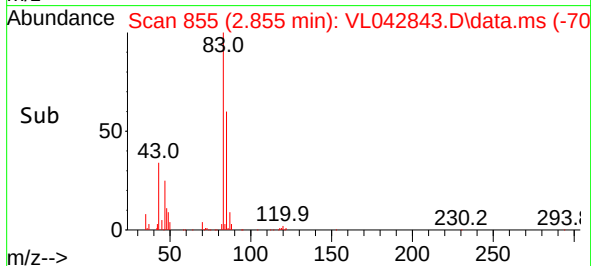
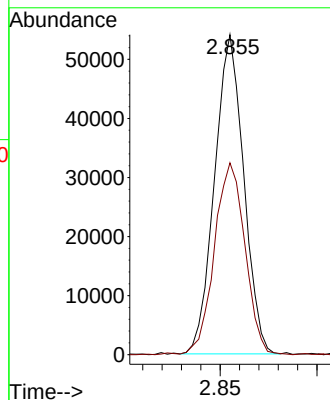
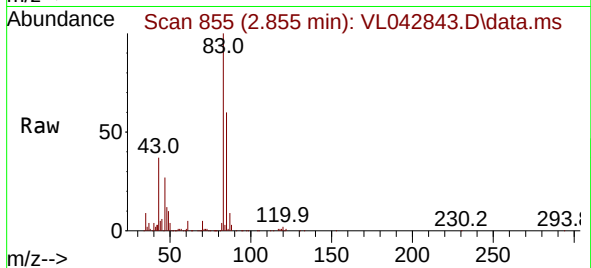
85 59.9 51.1 76.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#30

Cyclohexane

Concen: 2.069 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.007 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

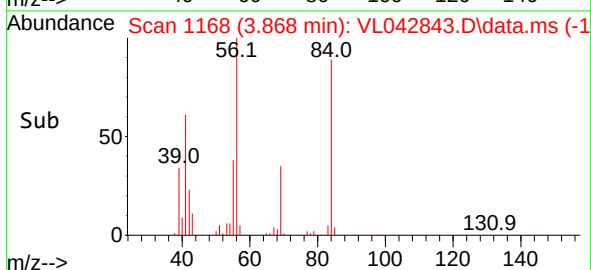
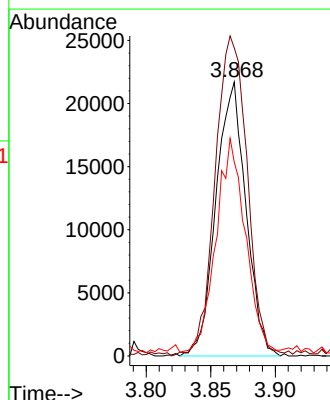
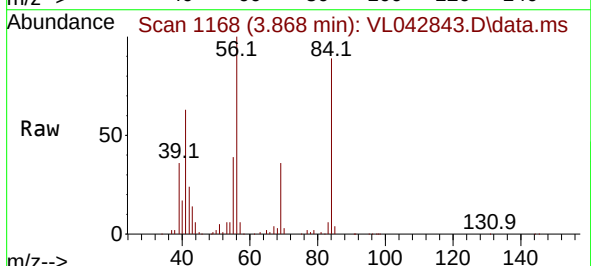
Tgt Ion: 84 Resp: 34992

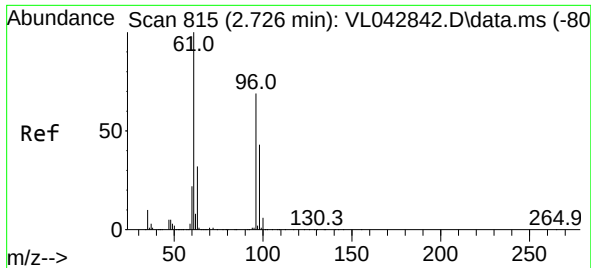
Ion Ratio Lower Upper

84 100

56 123.9 98.8 148.2

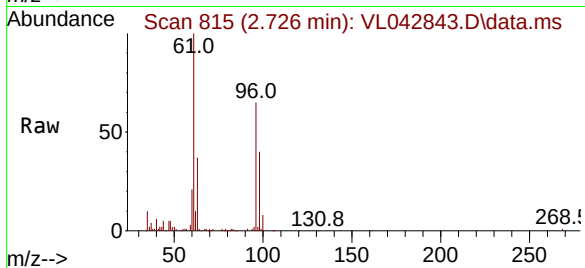
41 79.6 61.3 91.9





#31
 cis-1,2-Dichloroethene
 Concen: 2.062 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

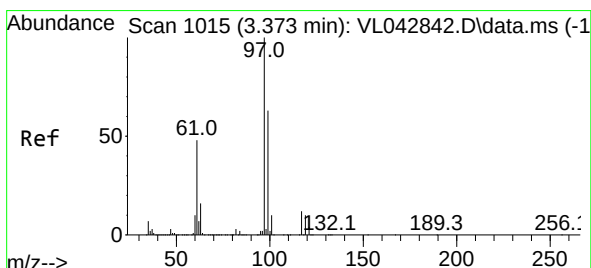
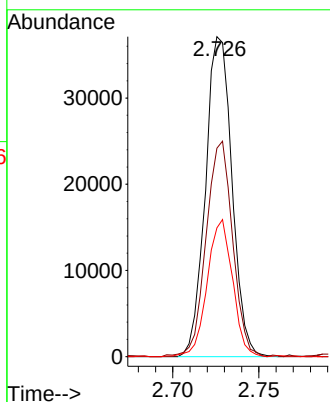
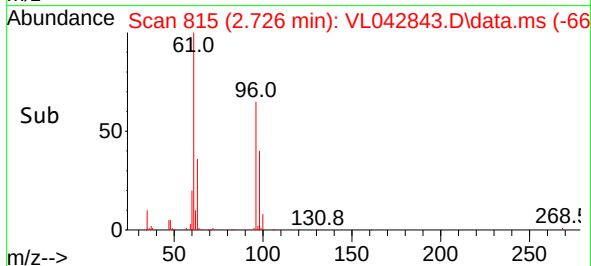
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



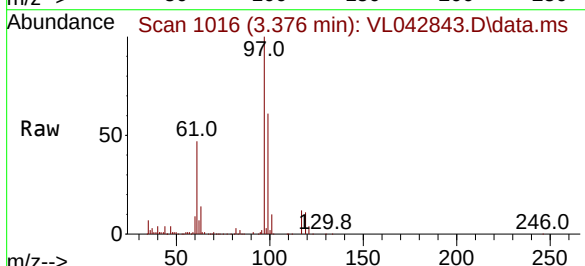
Tgt Ion: 61 Resp: 3978
 Ion Ratio Lower Upper
 61 100
 96 64.8 55.0 82.6
 98 39.9 34.3 51.5

Manual Integrations
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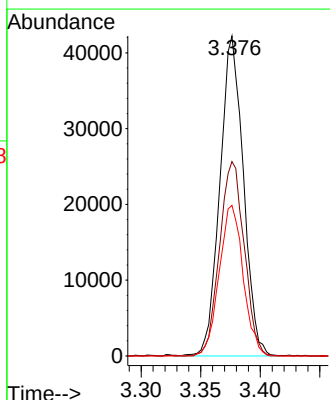
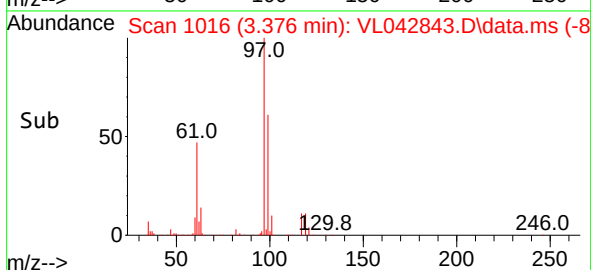
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

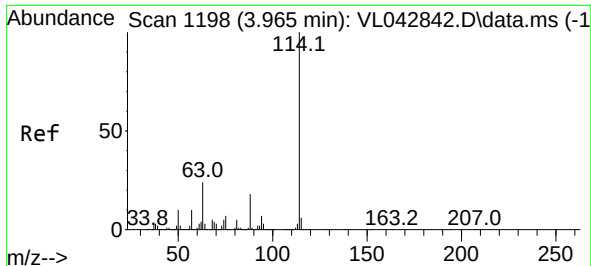


#32
 1,1,1-Trichloroethane
 Concen: 1.983 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06



Tgt Ion: 97 Resp: 57837
 Ion Ratio Lower Upper
 97 100
 99 63.9 51.0 76.6
 61 48.1 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

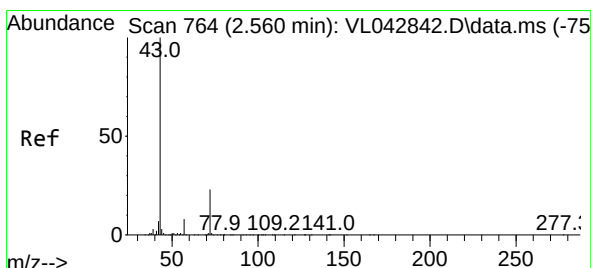
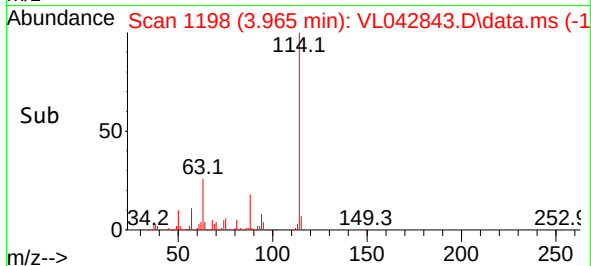
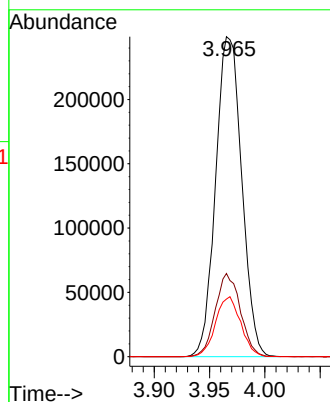
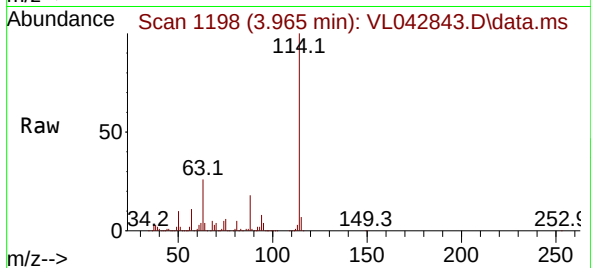
VSTDIC002

Tgt Ion:114 Resp: 408144
 Ion Ratio Lower Upper
 114 100
 63 25.0 19.7 29.5
 88 18.1 14.4 21.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#34

2-Butanone

Concen: 2.075 ppbv

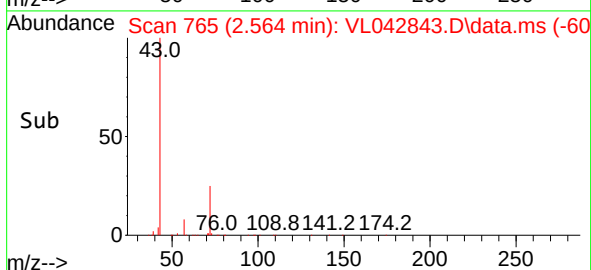
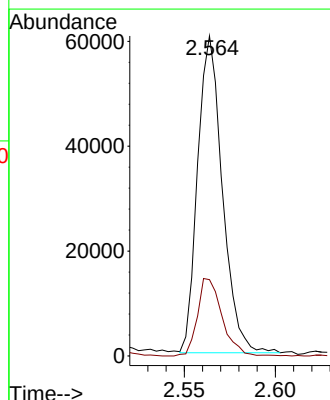
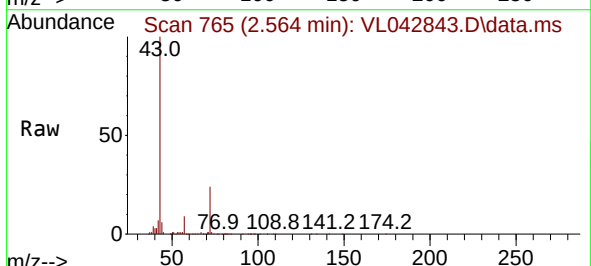
RT: 2.564 min Scan# 765

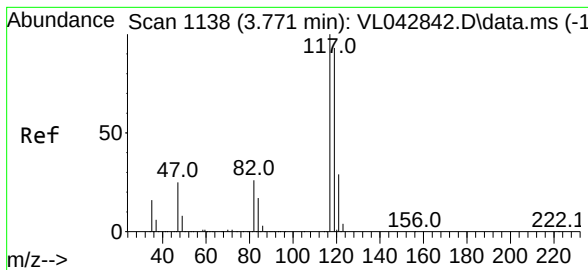
Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

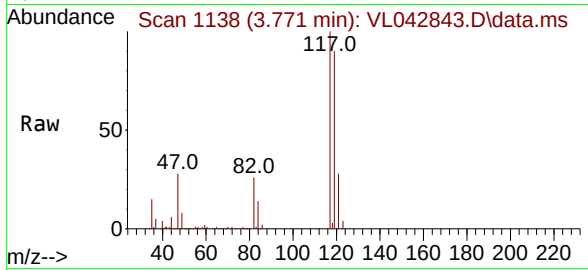
Tgt Ion: 43 Resp: 57172
 Ion Ratio Lower Upper
 43 100
 72 24.3 18.6 28.0





#35
Carbon Tetrachloride
Concen: 2.007 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

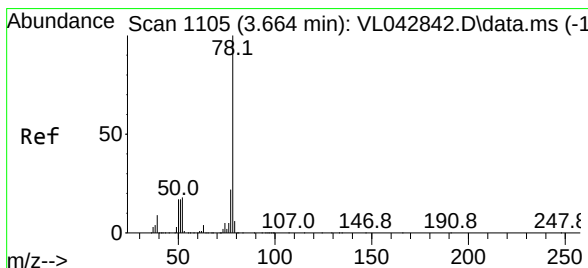
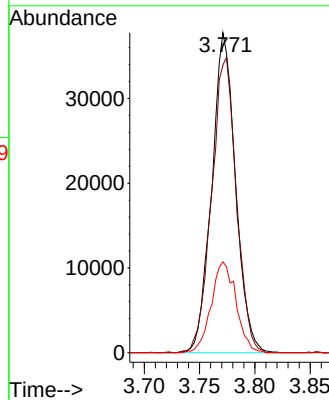
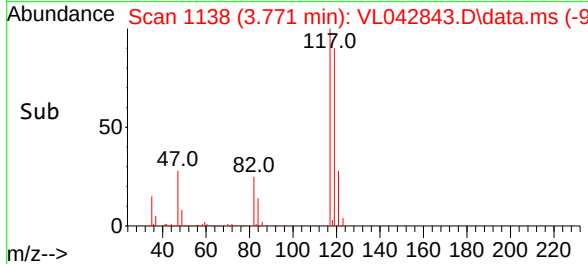
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



Tgt Ion: 117 Resp: 56459
Ion Ratio Lower Upper
117 100
119 89.9 74.7 112.1
121 28.4 23.2 34.8

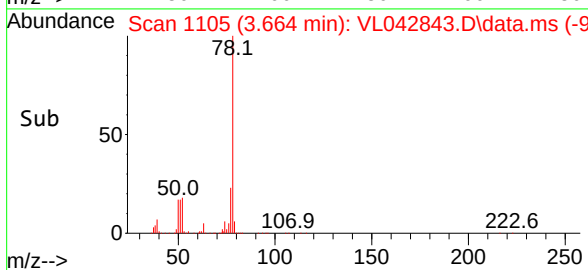
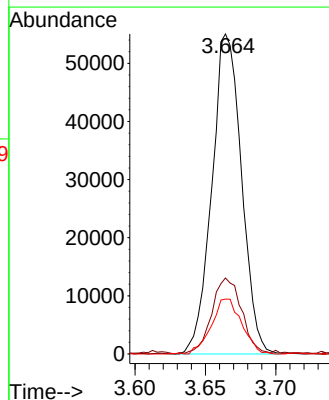
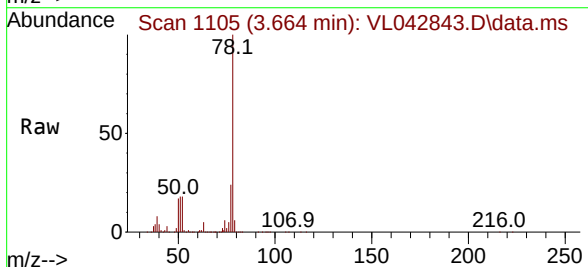
Manual Integrations
APPROVED

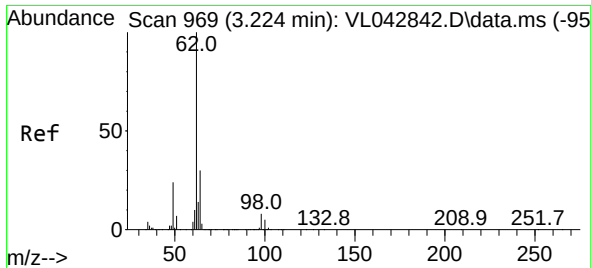
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#36
Benzene
Concen: 2.067 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 78 Resp: 80781
Ion Ratio Lower Upper
78 100
77 23.5 17.7 26.5
50 17.2 13.9 20.9





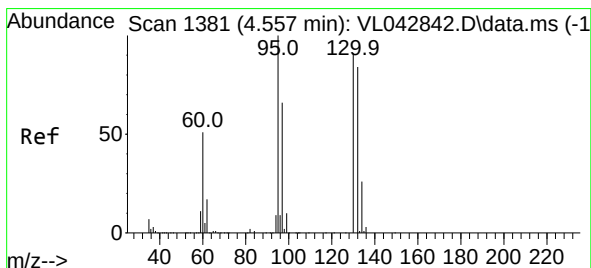
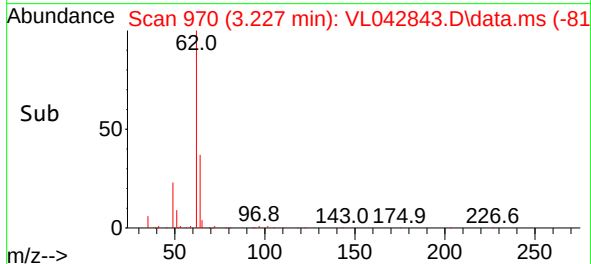
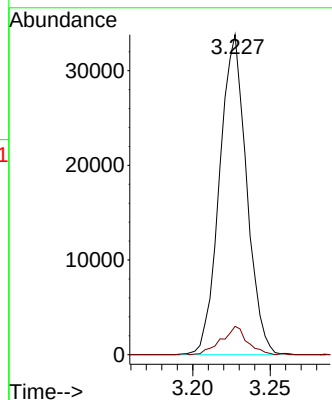
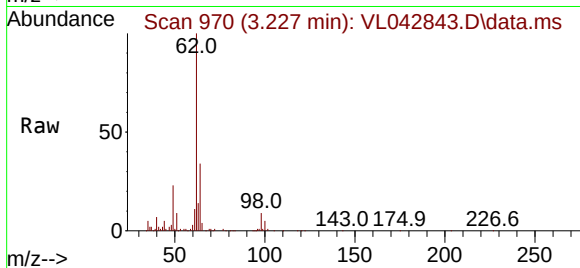
#37
1,2-Dichloroethane
Concen: 2.010 ppbv
RT: 3.227 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 41034
Ion Ratio Lower Upper
62 100
98 8.6 5.9 8.9

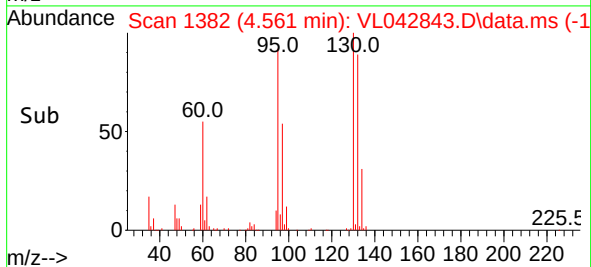
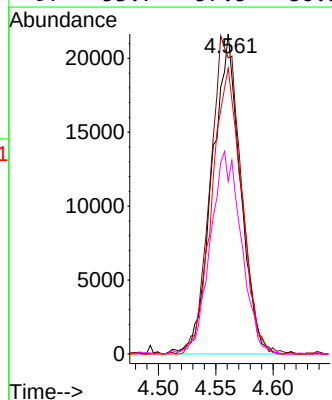
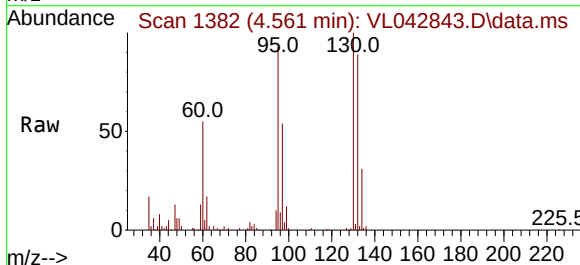
Manual Integrations
APPROVED

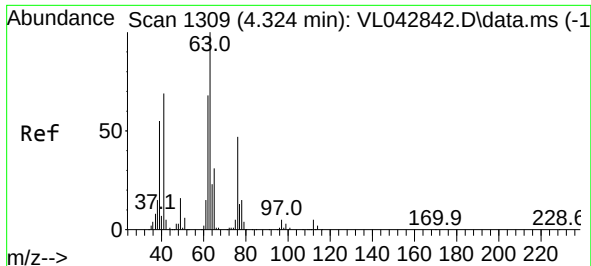
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#38
Trichloroethene
Concen: 2.072 ppbv
RT: 4.561 min Scan# 1382
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:130 Resp: 36990
Ion Ratio Lower Upper
130 100
95 91.5 87.6 131.4
132 89.3 73.8 110.8
97 53.7 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 2.036 ppbv

RT: 4.328 min Scan# 1309

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

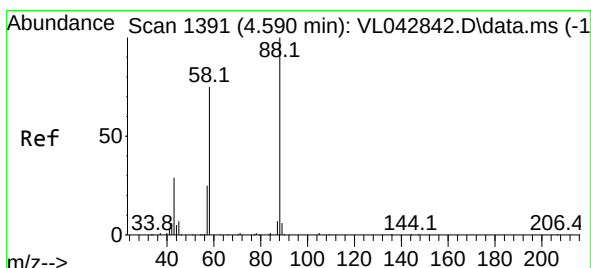
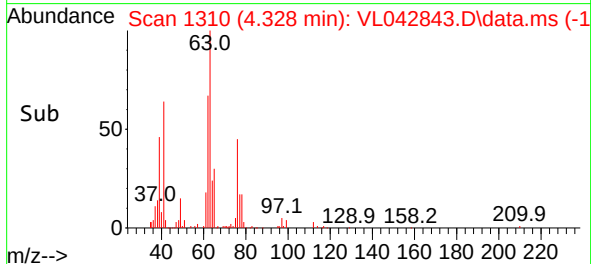
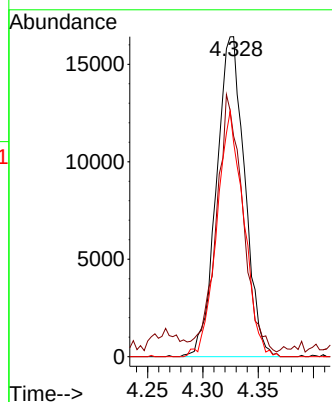
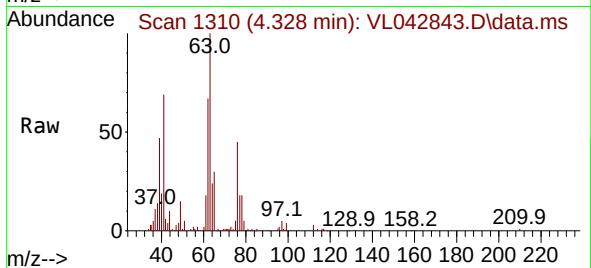
VSTDICC002

Tgt Ion: 63	Resp: 2905
Ion Ratio	Lower Upper
63 100	
41 66.8	55.0 82.4
62 66.9	54.4 81.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#40

1,4-Dioxane

Concen: 2.022 ppbv m

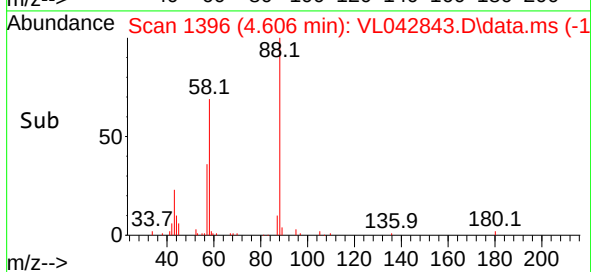
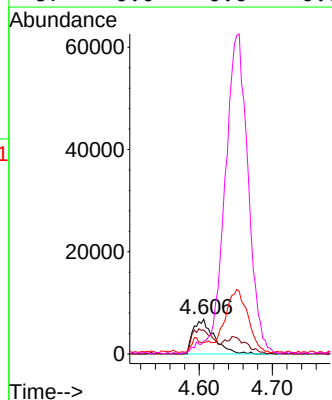
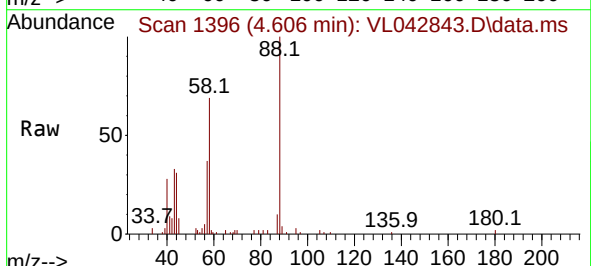
RT: 4.606 min Scan# 1396

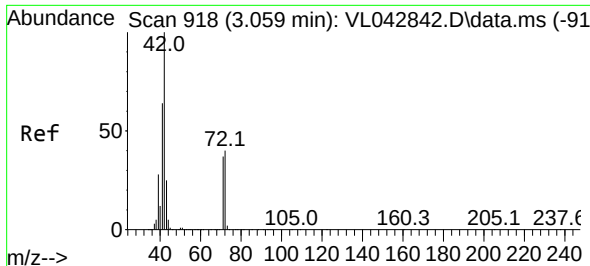
Delta R.T. 0.016 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

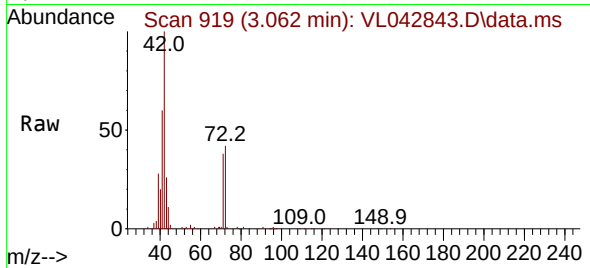
Tgt Ion: 88	Resp: 13510
Ion Ratio	Lower Upper
88 100	
58 69.3	53.8 80.6
43 0.0	22.8 34.2#
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 2.082 ppbv
RT: 3.062 min Scan# 918
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

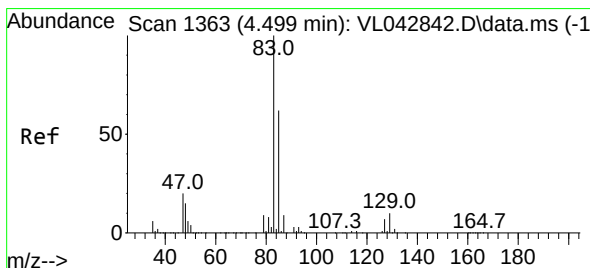
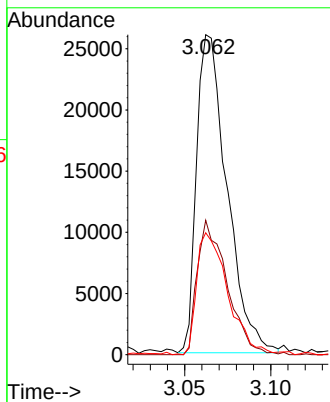
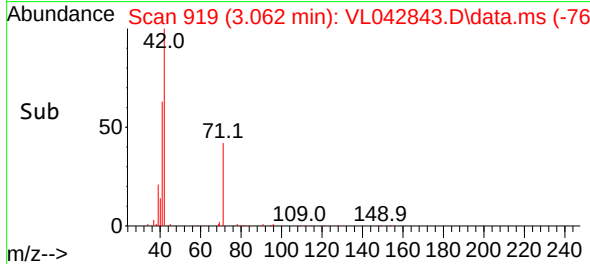
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 42 Resp: 31994
Ion Ratio Lower Upper
42 100
72 41.3 32.6 48.8
71 40.1 30.0 45.0

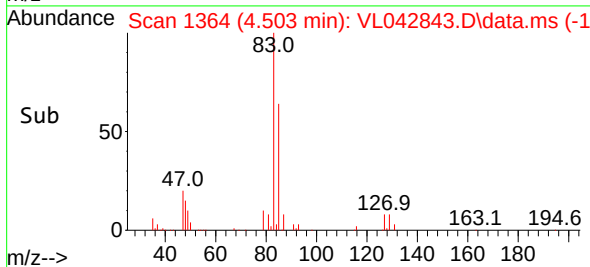
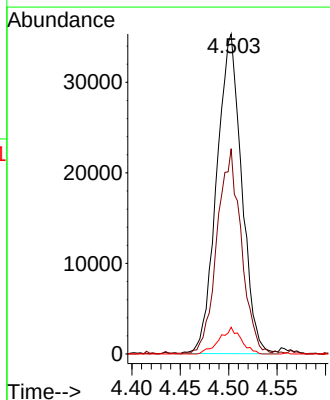
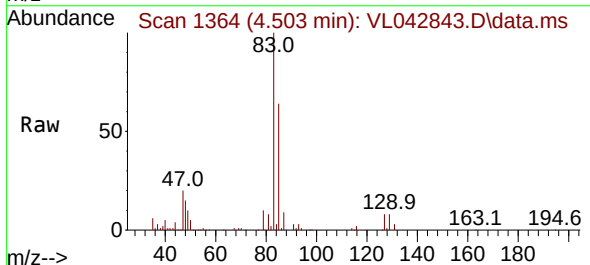
Manual Integrations
APPROVED

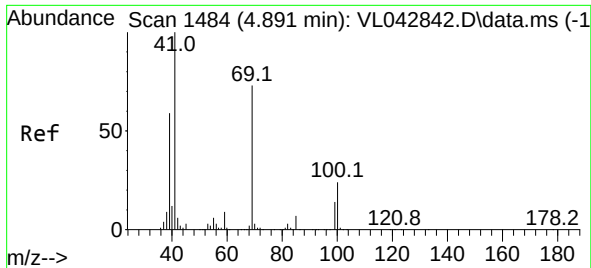
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#42
Bromodichloromethane
Concen: 2.085 ppbv
RT: 4.503 min Scan# 1364
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

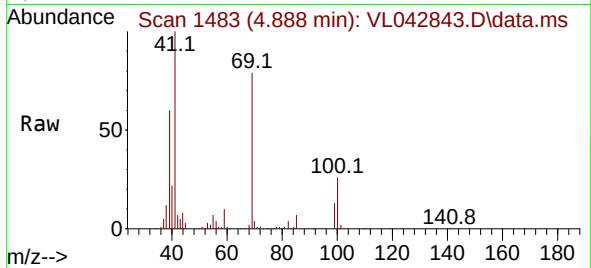
Tgt Ion: 83 Resp: 63436
Ion Ratio Lower Upper
83 100
85 64.2 49.8 74.8
127 8.4 5.8 8.6





#43
Methyl Methacrylate
Concen: 2.111 ppbv
RT: 4.888 min Scan# 1410
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

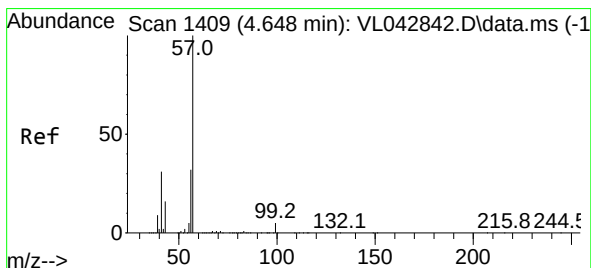
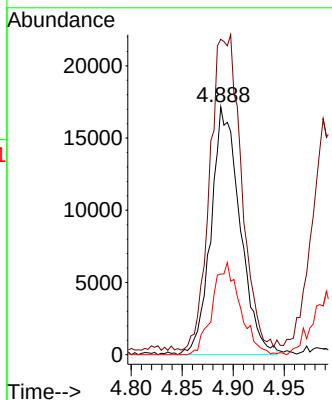
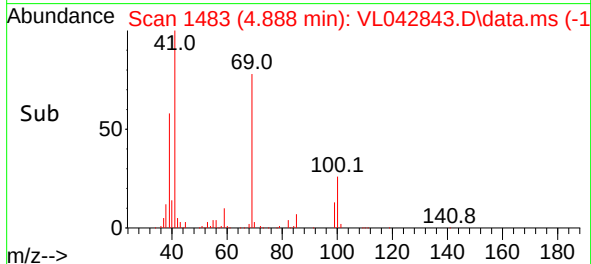
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



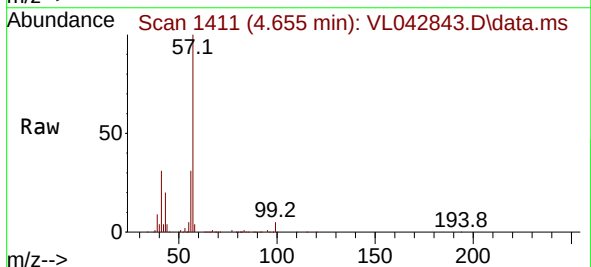
Tgt Ion: 69 Resp: 3385
Ion Ratio Lower Upper
69 100
41 0.0 114.6 172.0
100 0.0 30.2 45.4

Manual Integrations
APPROVED

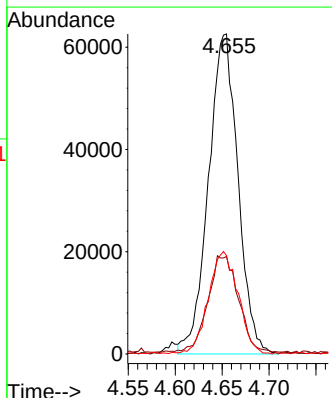
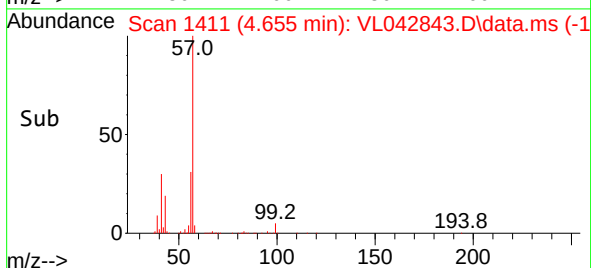
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

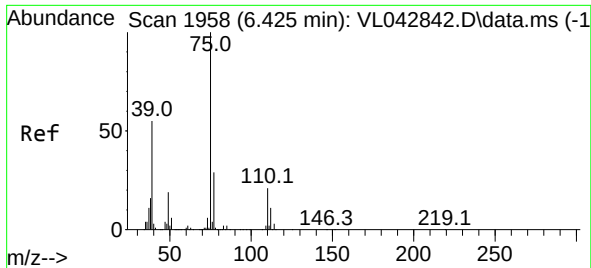


#44
2,2,4-Trimethylpentane
Concen: 2.085 ppbv
RT: 4.655 min Scan# 1411
Delta R.T. 0.007 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



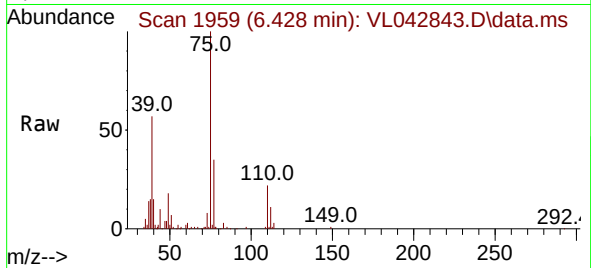
Tgt Ion: 57 Resp: 136794
Ion Ratio Lower Upper
57 100
41 32.5 24.8 37.2
56 32.6 25.5 38.3





#45
 t-1,3-Dichloropropene
 Concen: 2.048 ppbv
 RT: 6.428 min Scan# 1958
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

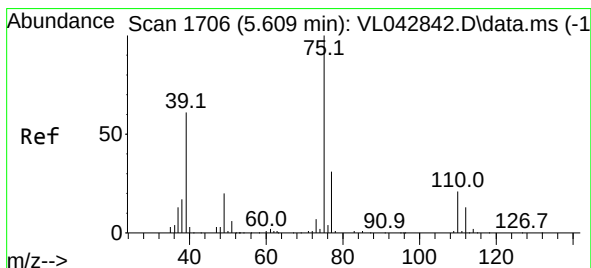
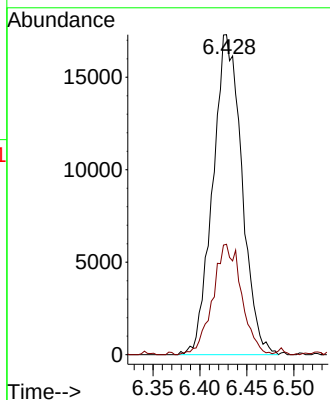
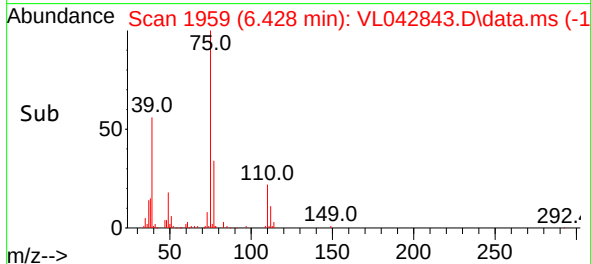
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion: 75 Resp: 3724
 Ion Ratio Lower Upper
 75 100
 77 35.2 23.8 35.6

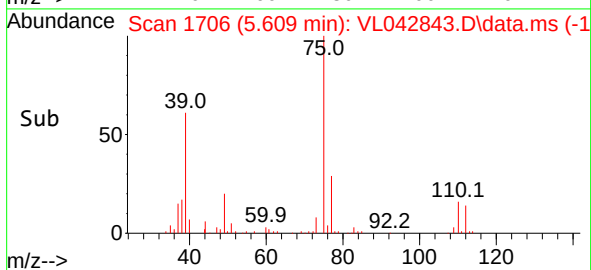
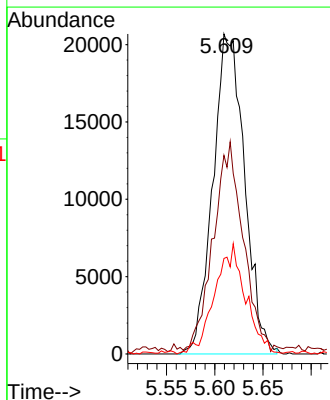
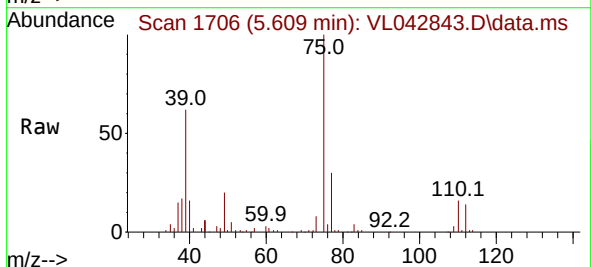
Manual Integrations
 APPROVED

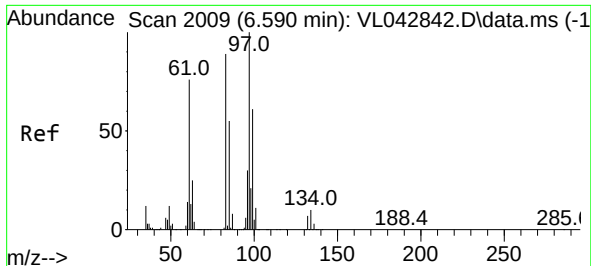
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#46
 cis-1,3-Dichloropropene
 Concen: 2.067 ppbv m
 RT: 5.609 min Scan# 1706
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

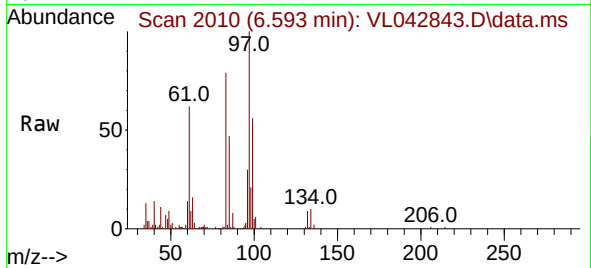
Tgt Ion: 75 Resp: 47201
 Ion Ratio Lower Upper
 75 100
 39 62.1 48.9 73.3
 77 29.8 24.9 37.3





#47
1,1,2-Trichloroethane
Concen: 2.083 ppbv m
RT: 6.593 min Scan# 2009
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

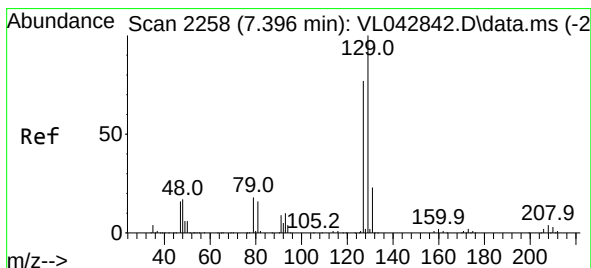
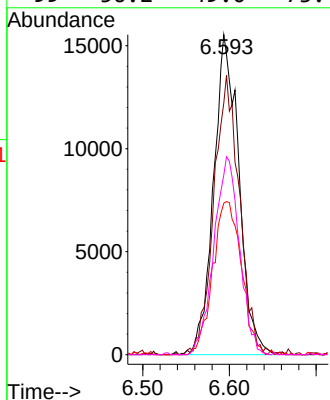
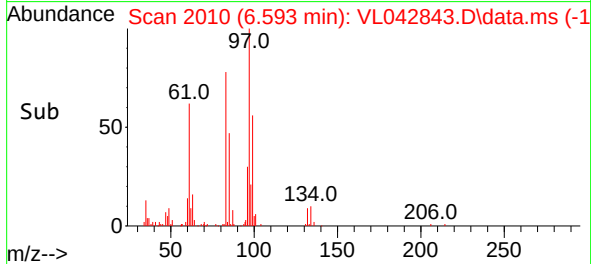
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 97 Resp: 3147
Ion Ratio Lower Upper
97 100
83 78.7 71.0 106.4
85 47.3 43.6 65.4
99 56.2 49.0 73.4

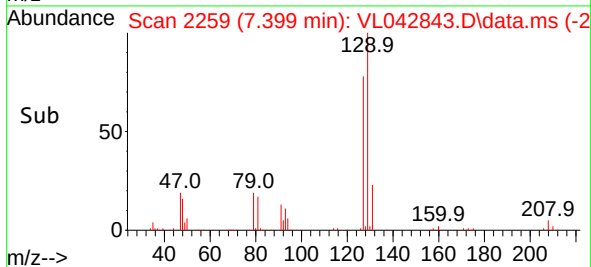
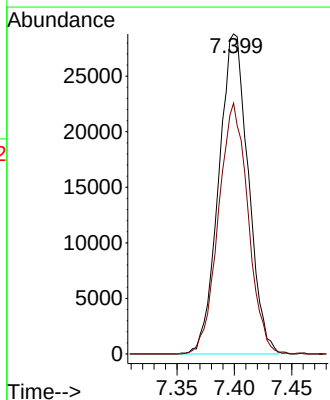
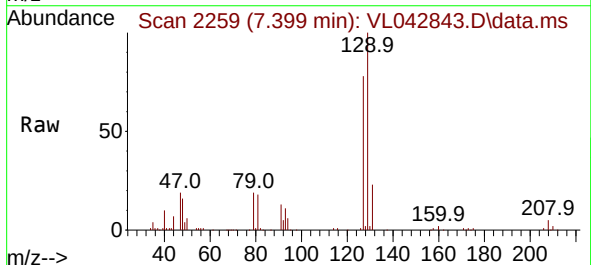
Manual Integrations
APPROVED

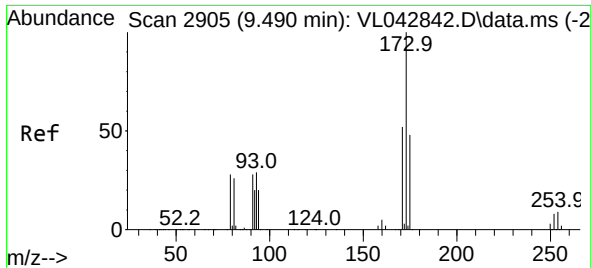
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#48
Dibromochloromethane
Concen: 2.109 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

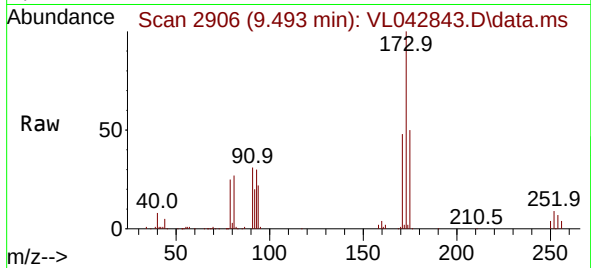
Tgt Ion:129 Resp: 51620
Ion Ratio Lower Upper
129 100
127 78.4 39.4 118.2





#49
Bromoform
Concen: 2.163 ppbv
RT: 9.493 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

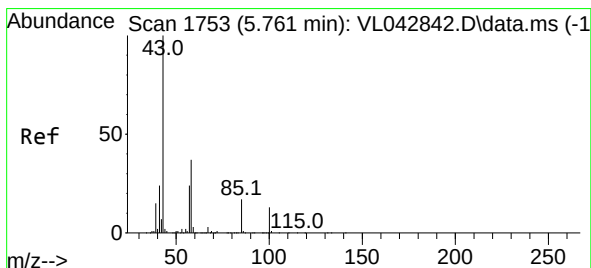
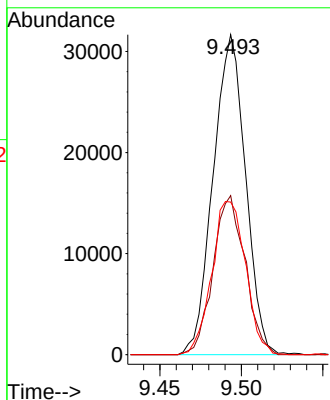
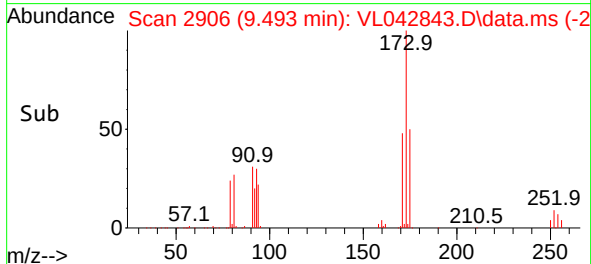
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



Tgt Ion: 173 Resp: 43662
Ion Ratio Lower Upper
173 100
175 49.1 39.2 58.8
171 50.0 41.3 61.9

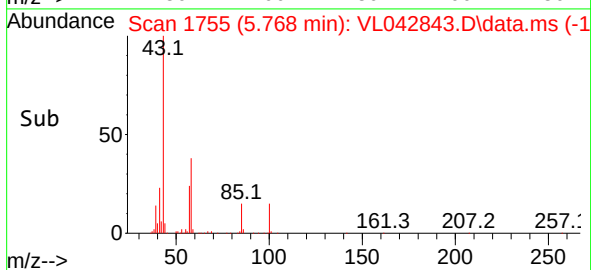
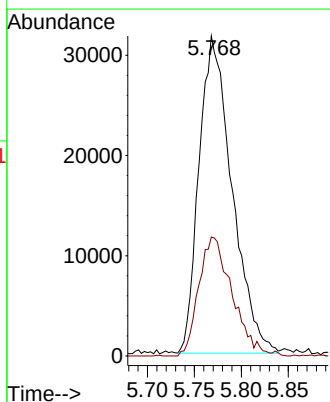
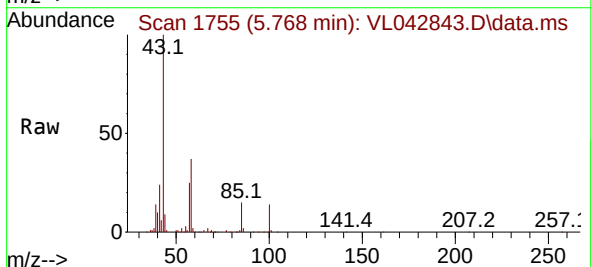
Manual Integrations
APPROVED

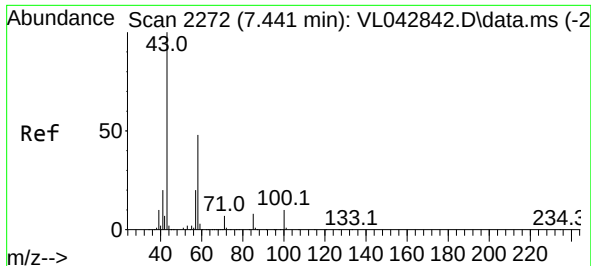
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#50
4-Methyl-2-Pentanone
Concen: 2.066 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.007 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

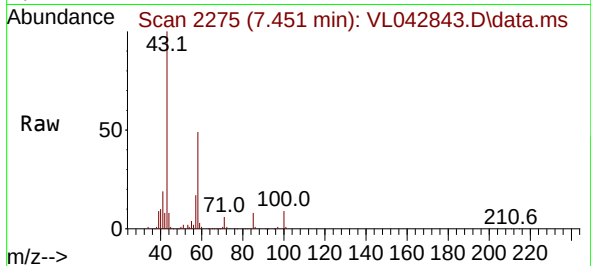
Tgt Ion: 43 Resp: 77225
Ion Ratio Lower Upper
43 100
58 38.1 29.8 44.8





#51
2-Hexanone
Concen: 2.088 ppbv
RT: 7.451 min Scan# 2110
Delta R.T. 0.010 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

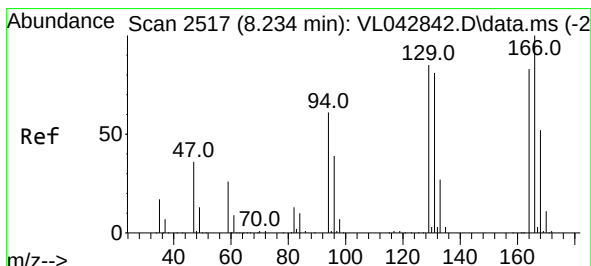
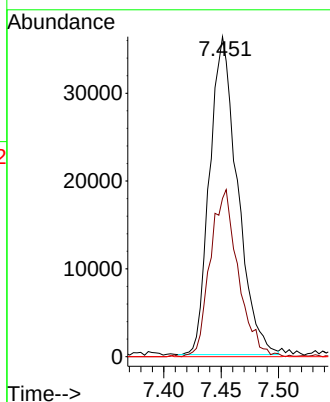
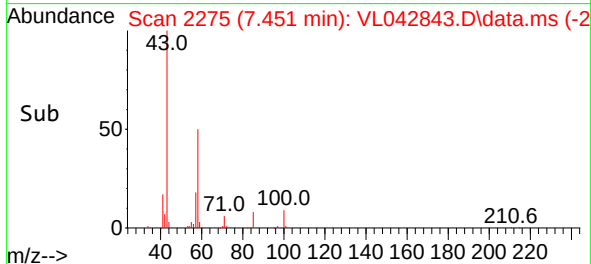
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 43 Resp: 61210
Ion Ratio Lower Upper
43 100
58 52.9 41.0 61.6
98 0.0 0.1 0.1

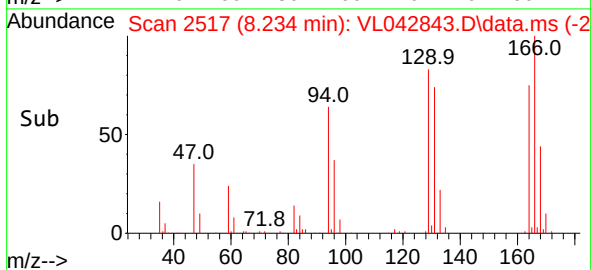
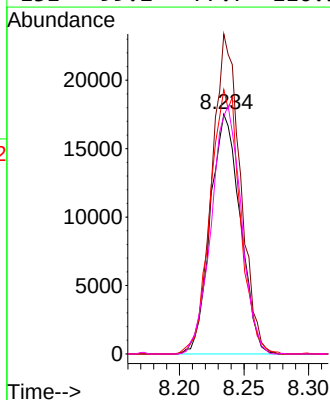
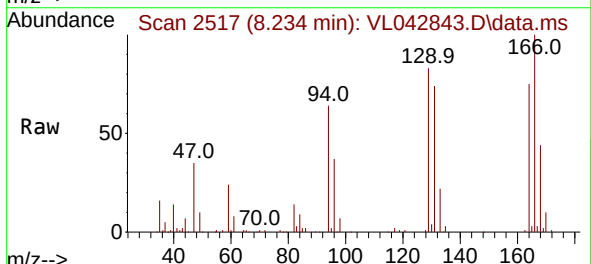
Manual Integrations
APPROVED

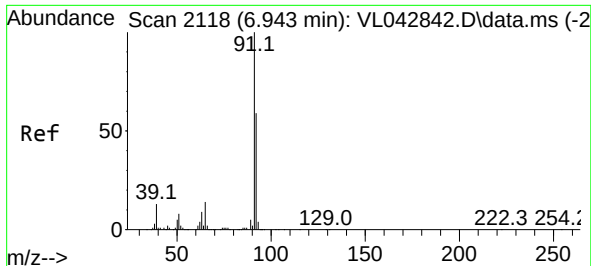
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#52
Tetrachloroethene
Concen: 1.990 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

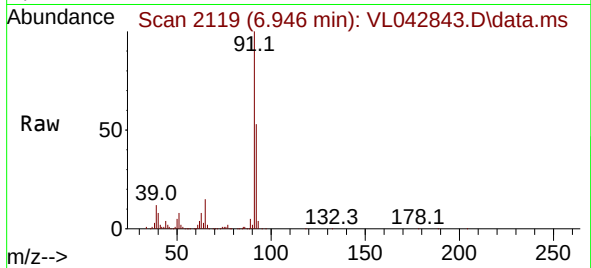
Tgt Ion:164 Resp: 28166
Ion Ratio Lower Upper
164 100
166 133.5 96.5 144.7
129 110.3 81.8 122.6
131 99.2 77.7 116.5





#53
Toluene
Concen: 2.036 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

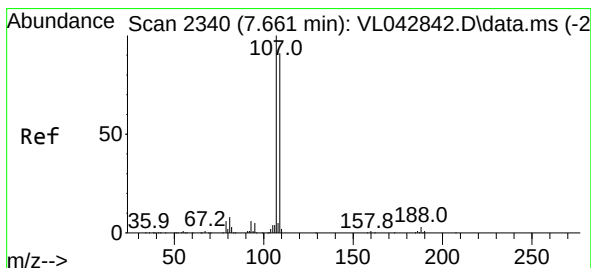
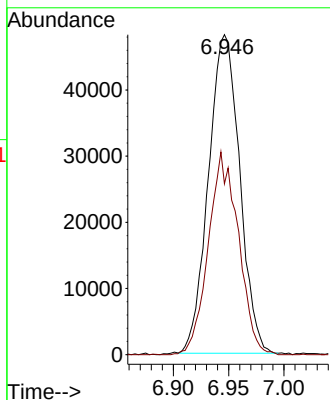
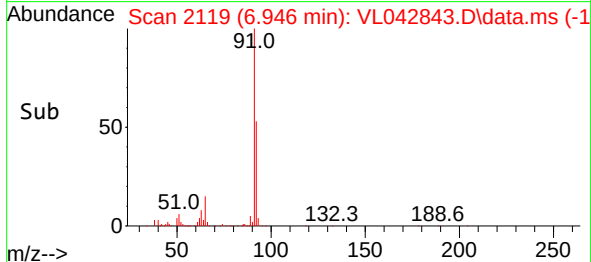
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



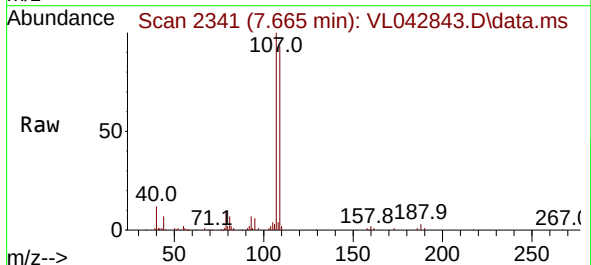
Tgt Ion: 91 Resp: 94690
Ion Ratio Lower Upper
91 100
92 61.1 47.8 71.6

Manual Integrations
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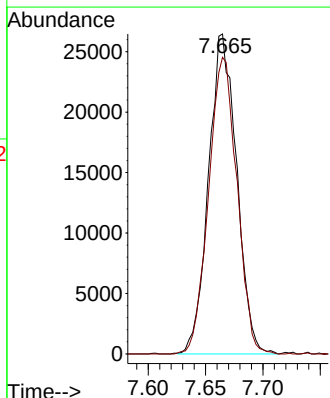
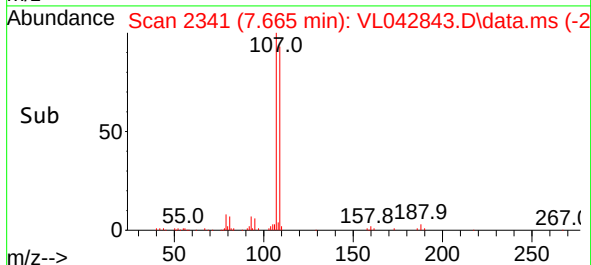
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

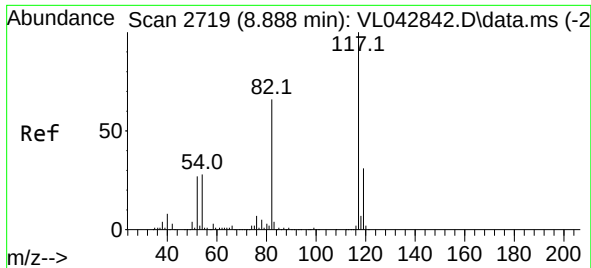


#54
1,2-Dibromoethane
Concen: 2.039 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



Tgt Ion:107 Resp: 45071
Ion Ratio Lower Upper
107 100
109 92.7 72.5 108.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 2719

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

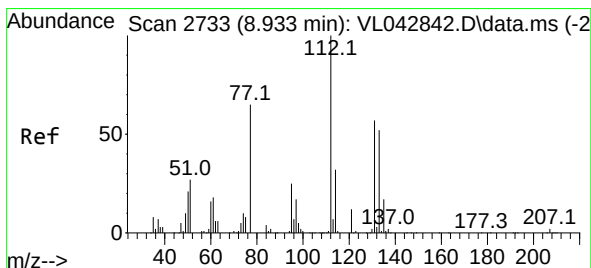
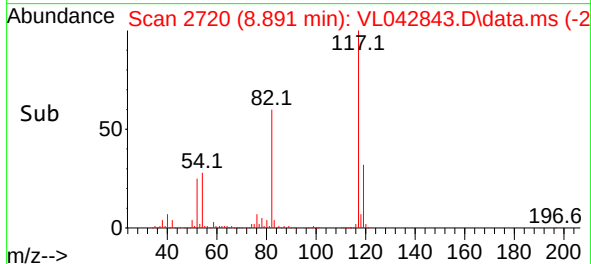
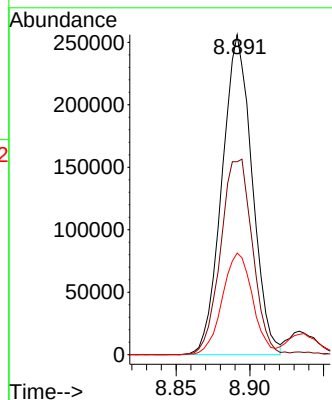
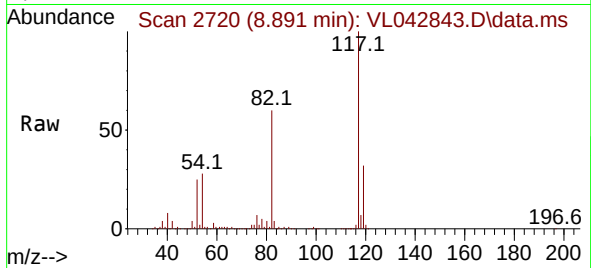
VSTDIC002

Tgt Ion:117 Resp: 363830
 Ion Ratio Lower Upper
 117 100
 82 65.4 54.6 81.8
 119 32.8 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 2.131 ppbv

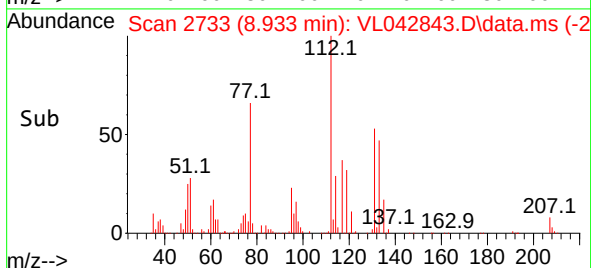
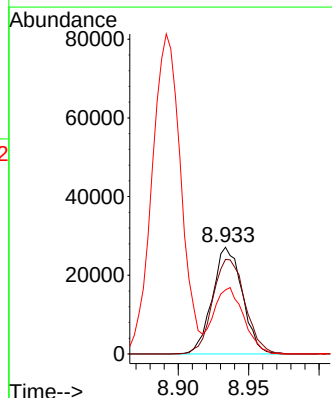
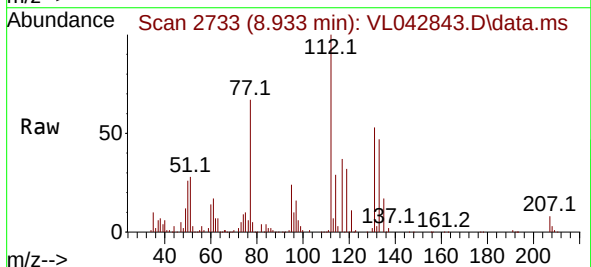
RT: 8.933 min Scan# 2733

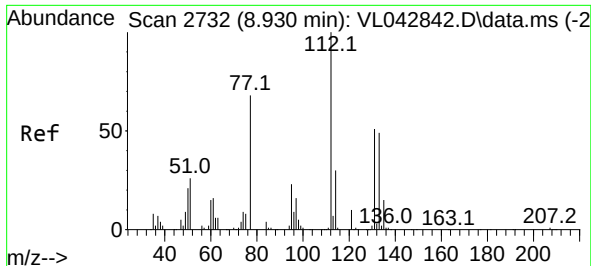
Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

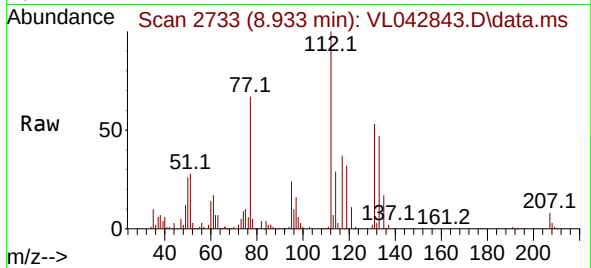
Tgt Ion:131 Resp: 40090
 Ion Ratio Lower Upper
 131 100
 133 96.1 77.4 116.0
 119 59.3 51.2 76.8





#57
Chlorobenzene
Concen: 2.090 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

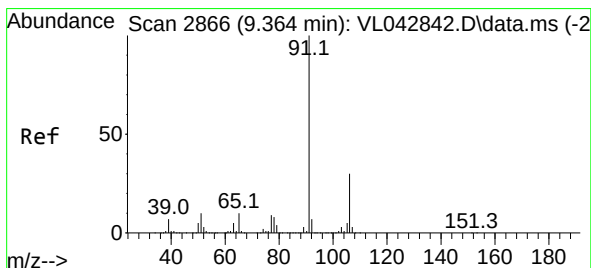
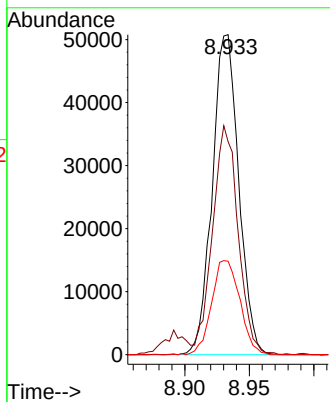
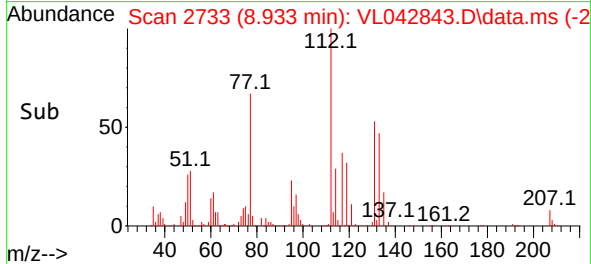
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 112 Resp: 72290
Ion Ratio Lower Upper
112 100
77 66.4 55.5 83.3
114 29.2 27.2 33.2

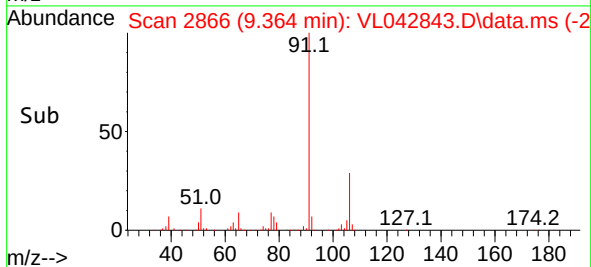
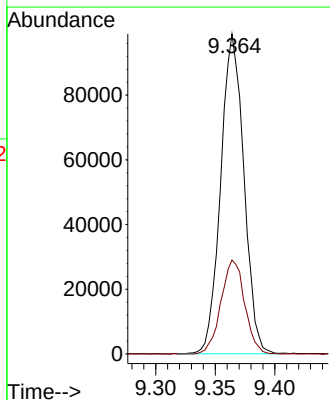
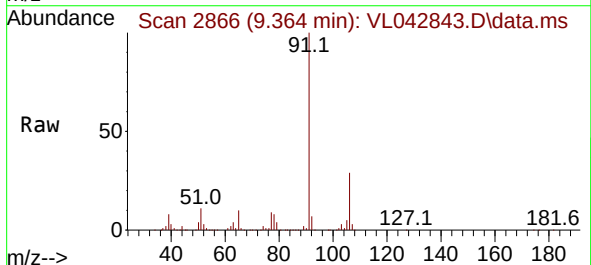
Manual Integrations
APPROVED

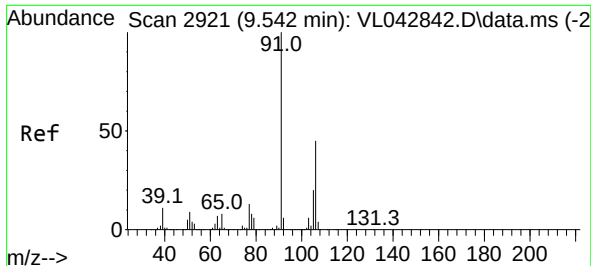
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#58
Ethyl Benzene
Concen: 2.083 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 133719
Ion Ratio Lower Upper
91 100
106 29.4 23.9 35.9





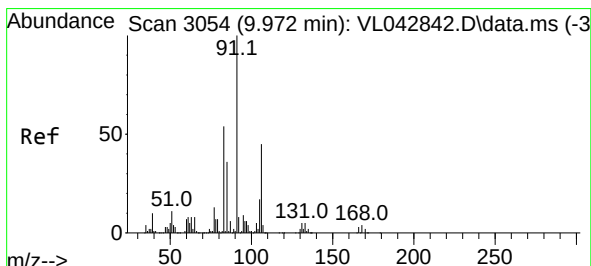
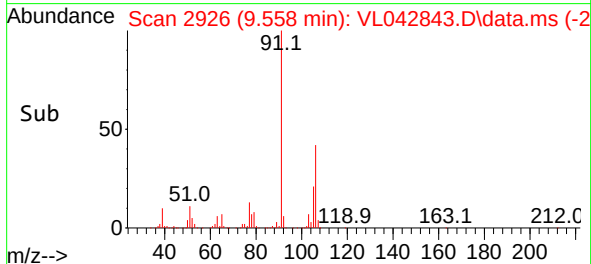
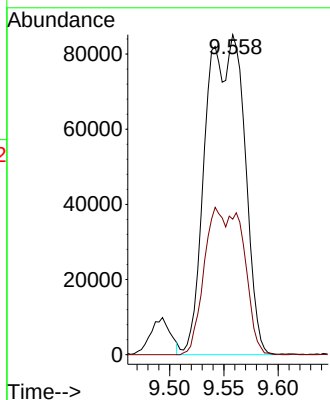
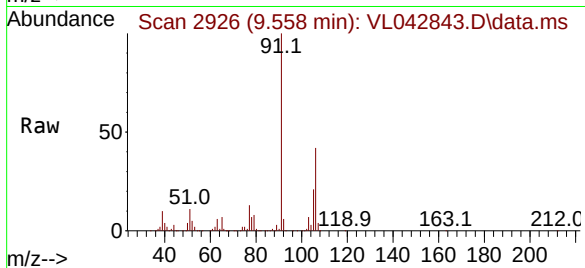
#59
m/p-Xylene
Concen: 4.200 ppbv m
RT: 9.558 min Scan# 2921
Delta R.T. 0.016 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 211704
Ion Ratio Lower Upper
91 100
106 46.1 0.0 0.0

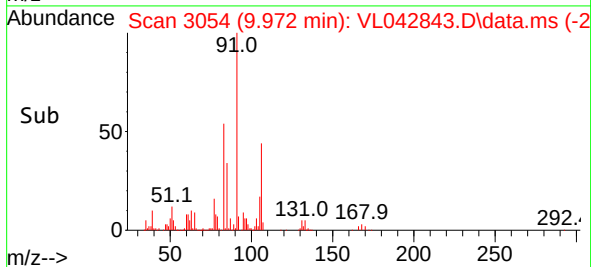
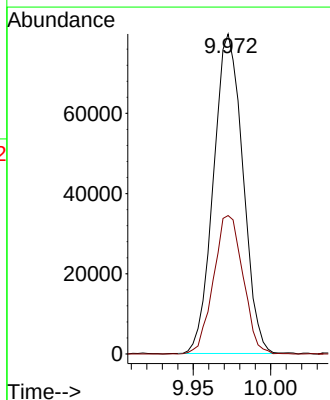
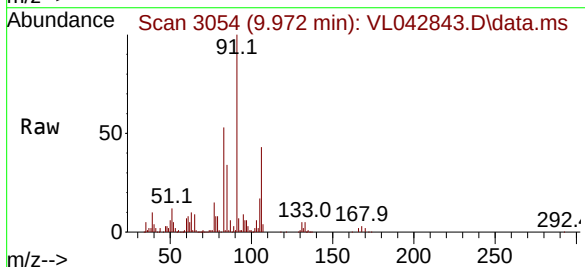
Manual Integrations
APPROVED

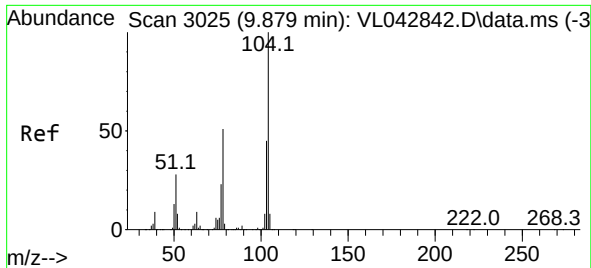
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#60
o-Xylene
Concen: 2.077 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 105125
Ion Ratio Lower Upper
91 100
106 43.5 21.8 65.4





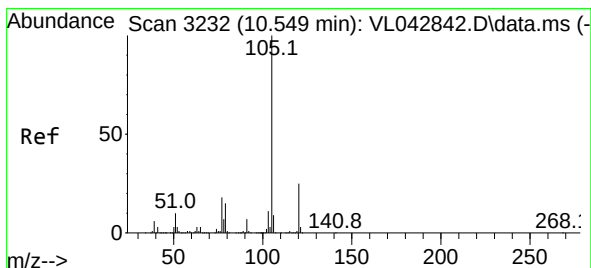
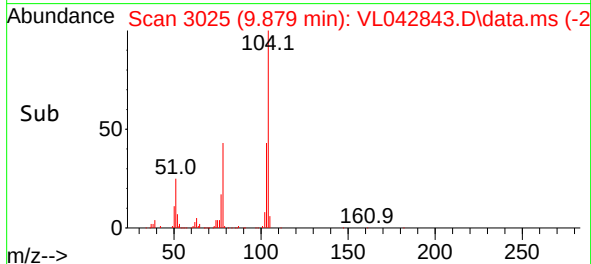
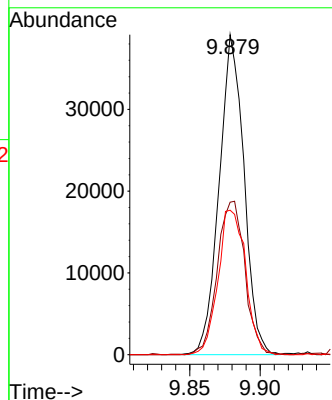
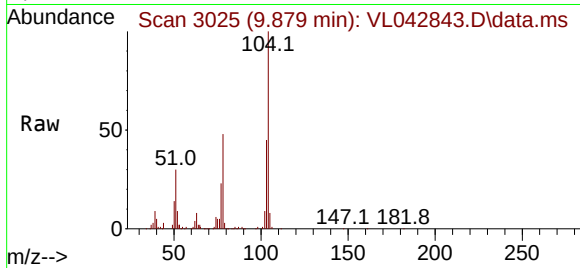
#61
Styrene
Concen: 2.025 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:104 Resp: 4802
Ion Ratio Lower Upper
104 100
78 53.4 40.6 61.0
103 50.1 37.7 56.5

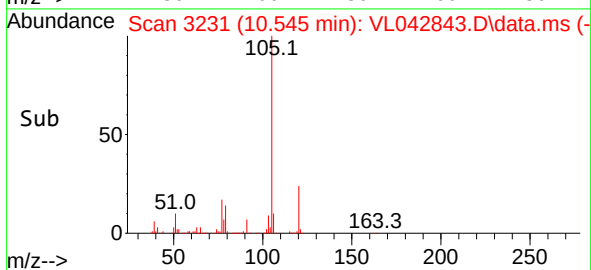
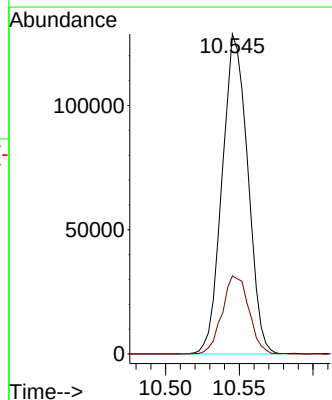
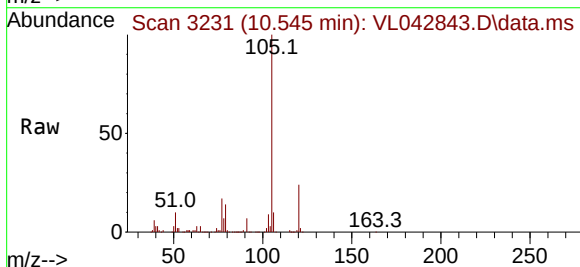
Manual Integrations
APPROVED

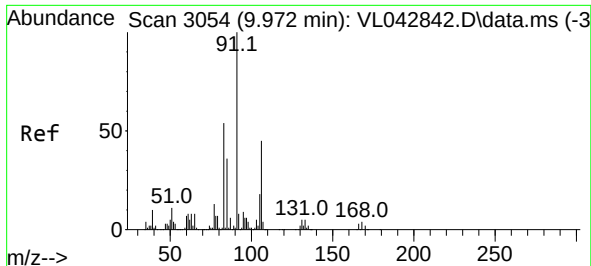
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#62
Isopropylbenzene
Concen: 2.098 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

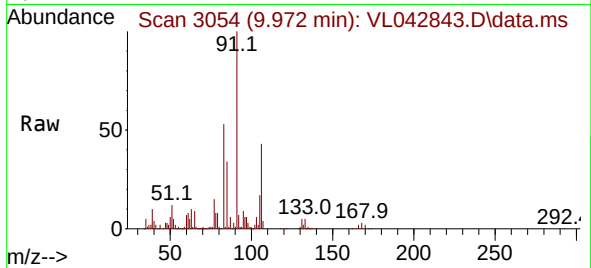
Tgt Ion:105 Resp: 155223
Ion Ratio Lower Upper
105 100
120 25.5 20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 2.031 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

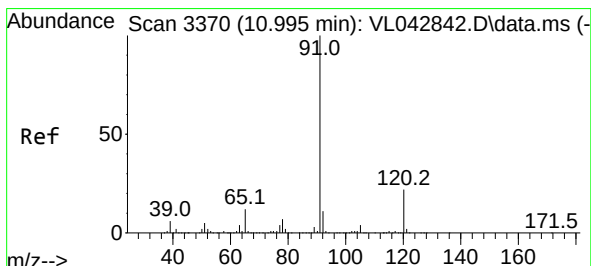
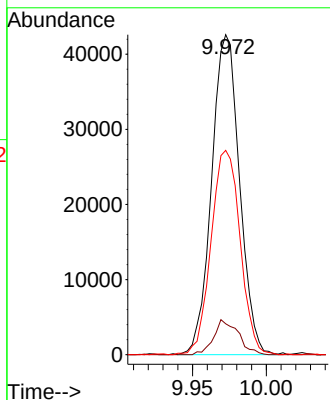
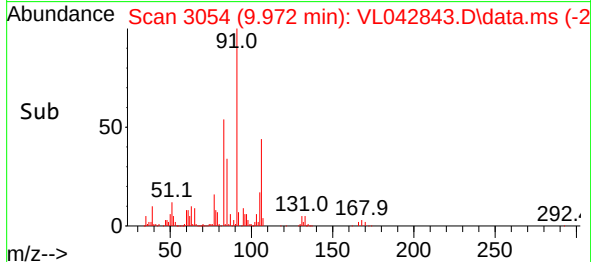
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



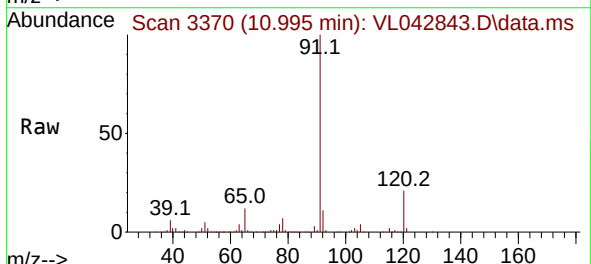
Tgt Ion: 83 Resp: 56139
Ion Ratio Lower Upper
83 100
131 9.7 4.8 14.3
85 66.5 32.3 96.8

Manual Integrations
APPROVED

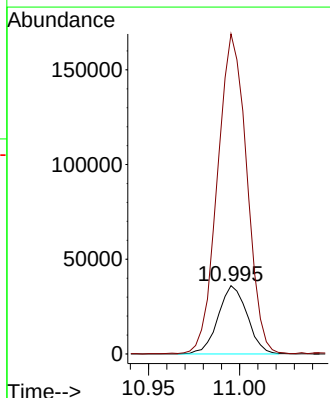
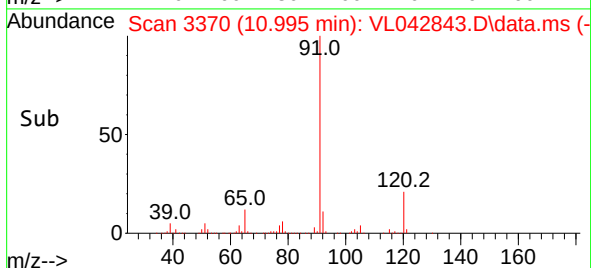
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

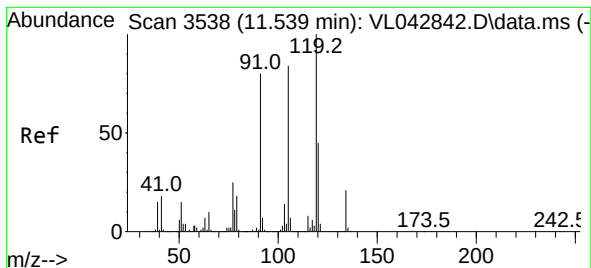


#64
n-propylbenzene
Concen: 2.115 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



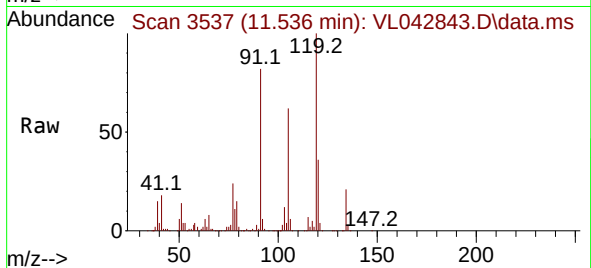
Tgt Ion:120 Resp: 39922
Ion Ratio Lower Upper
120 100
91 476.7 375.8 563.6





#65
tert-Butylbenzene
Concen: 2.132 ppbv
RT: 11.536 min Scan# 3538
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

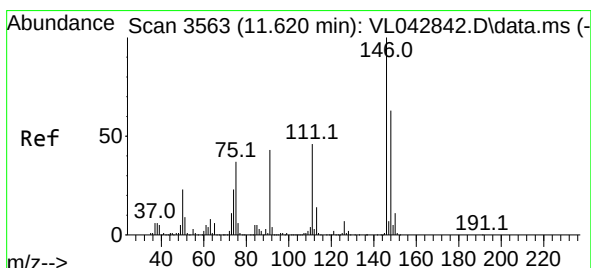
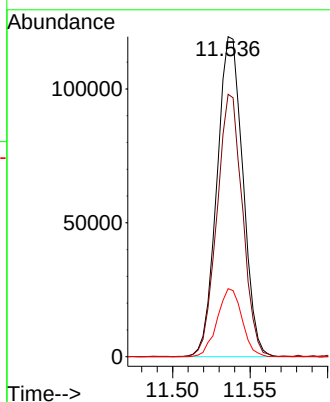
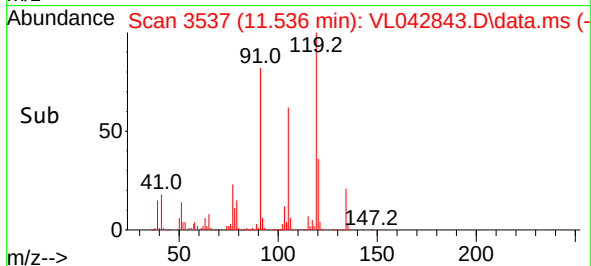
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



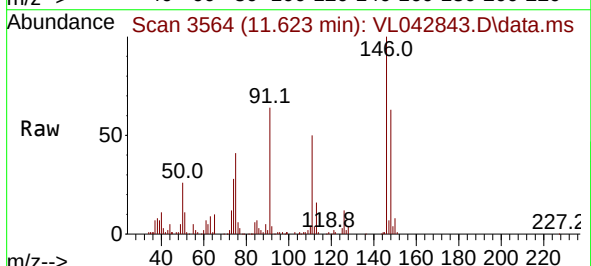
Tgt Ion: 119 Resp: 139019
Ion Ratio Lower Upper
119 100
91 80.9 63.9 95.9
134 20.3 17.0 25.4

Manual Integrations
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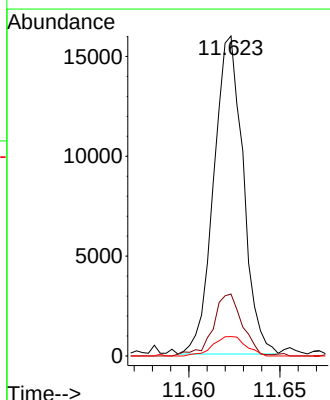
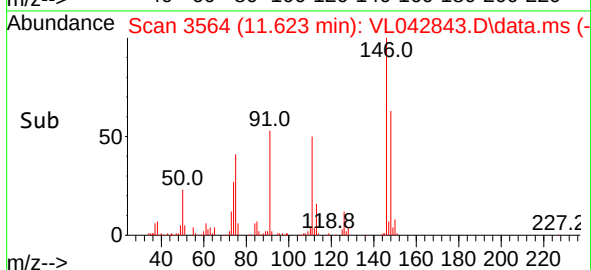
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

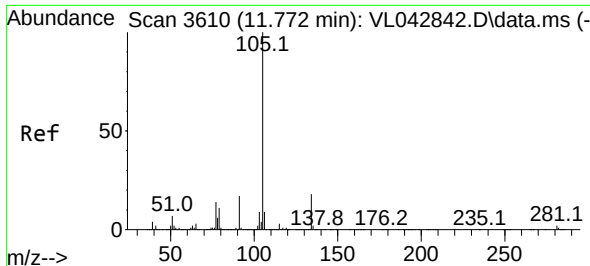


#66
Benzyl Chloride
Concen: 2.161 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



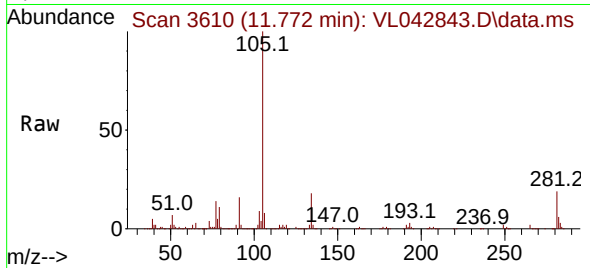
Tgt Ion: 91 Resp: 17893
Ion Ratio Lower Upper
91 100
126 19.5 14.2 21.4
128 6.9 5.0 7.6





#67
 sec-Butylbenzene
 Concen: 2.151 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

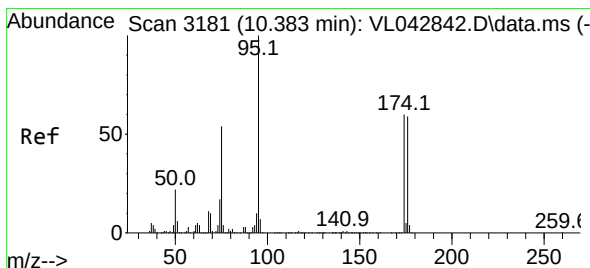
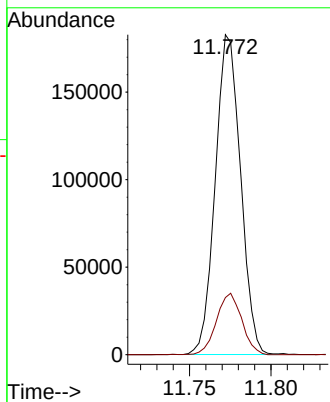
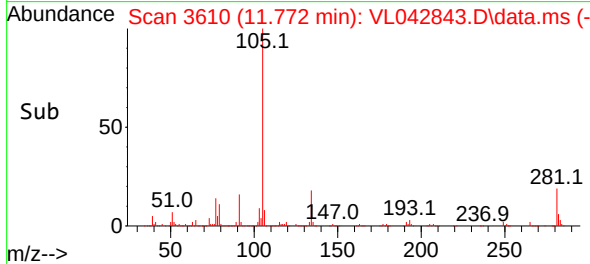
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



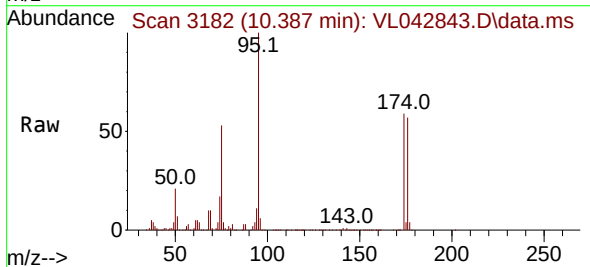
Tgt Ion:105 Resp: 196895
 Ion Ratio Lower Upper
 105 100
 134 19.3 14.9 22.3

Manual Integrations
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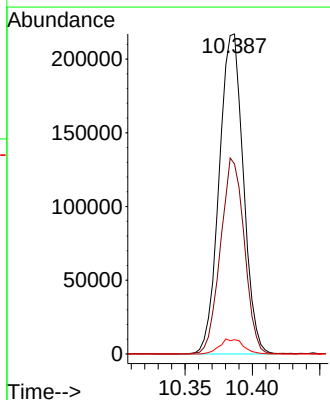
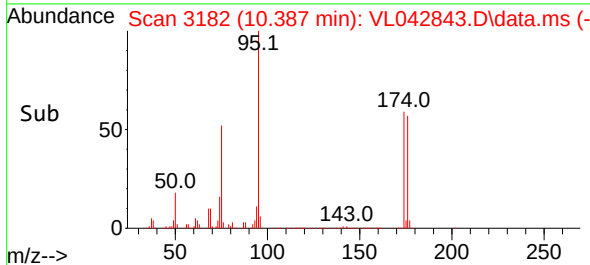
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

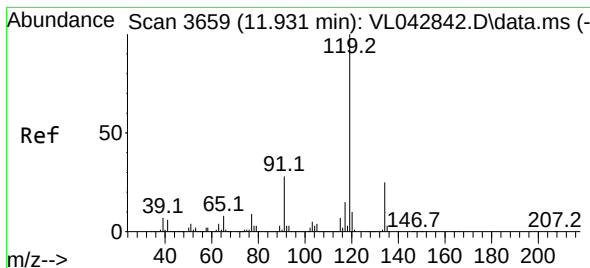


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.923 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06



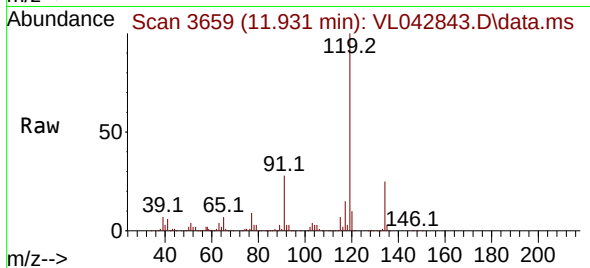
Tgt Ion: 95 Resp: 270774
 Ion Ratio Lower Upper
 95 100
 174 60.2 48.4 72.6
 175 4.6 3.8 5.8





#69
 p-Isopropyltoluene
 Concen: 2.156 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

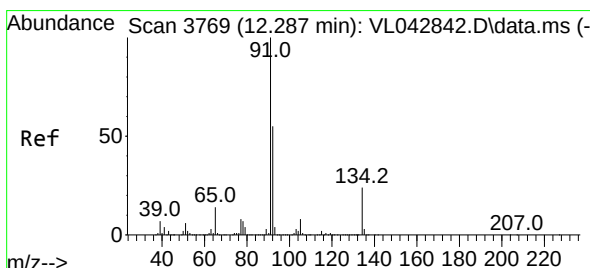
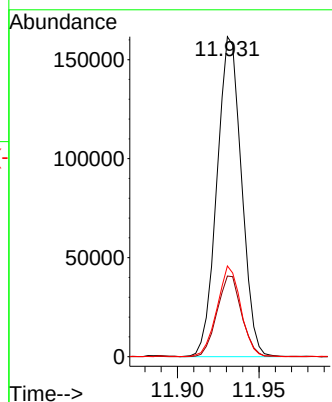
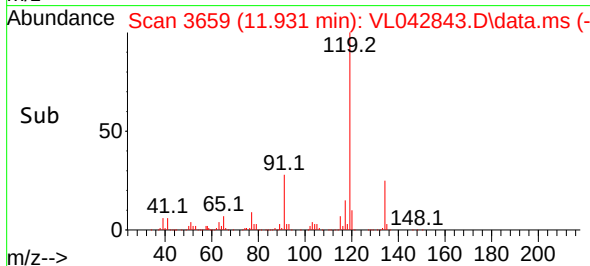
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



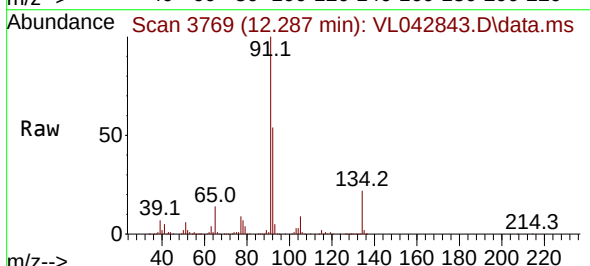
Tgt Ion: 119 Resp: 169429
 Ion Ratio Lower Upper
 119 100
 134 25.3 20.6 30.8
 91 27.4 22.6 34.0

Manual Integrations
 APPROVED

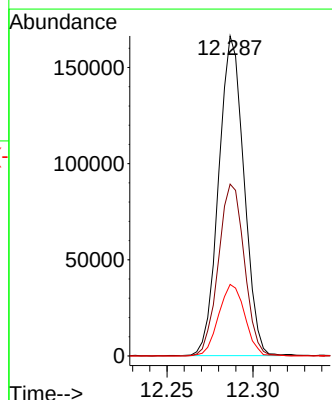
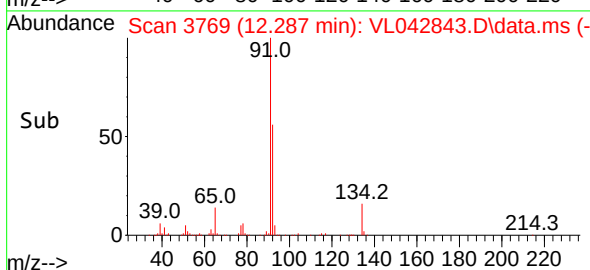
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

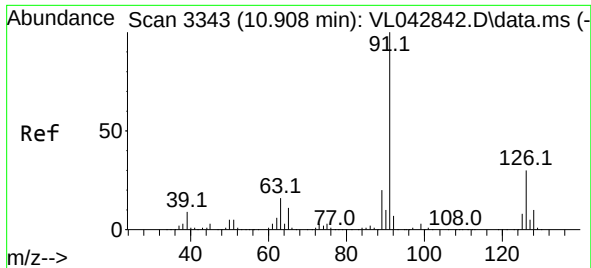


#70
 n-Butylbenzene
 Concen: 2.178 ppbv
 RT: 12.287 min Scan# 3769
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06



Tgt Ion: 91 Resp: 169768
 Ion Ratio Lower Upper
 91 100
 92 55.4 44.6 66.8
 134 23.3 19.0 28.4





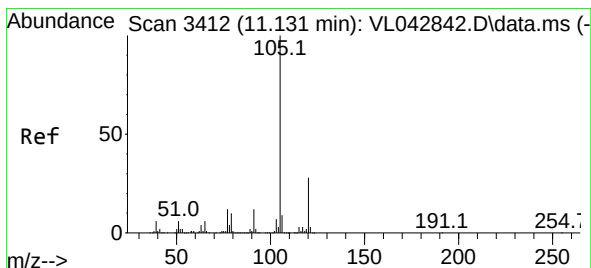
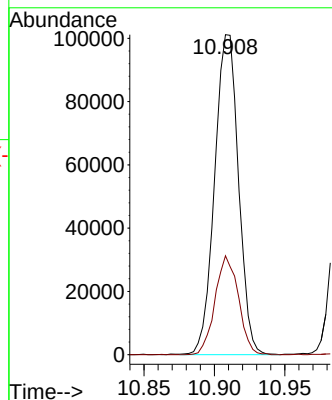
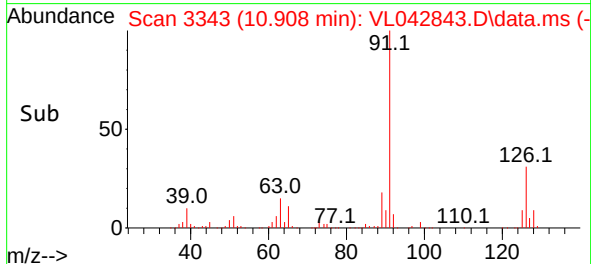
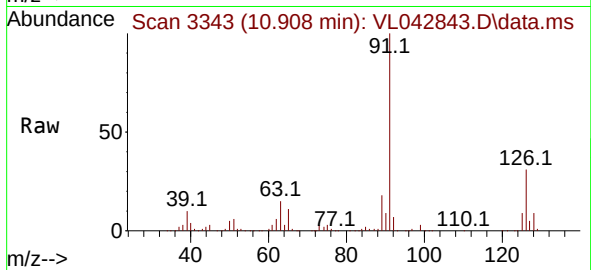
#71
2-Chlorotoluene
Concen: 2.078 ppbv
RT: 10.908 min Scan# 311
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 11938
Ion Ratio Lower Upper
91 100
126 30.2 12.0 47.8

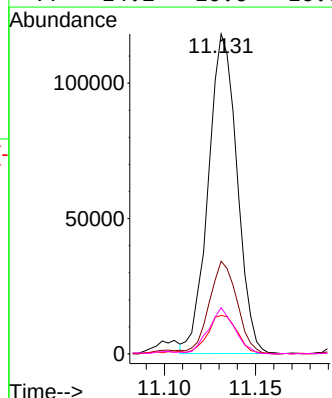
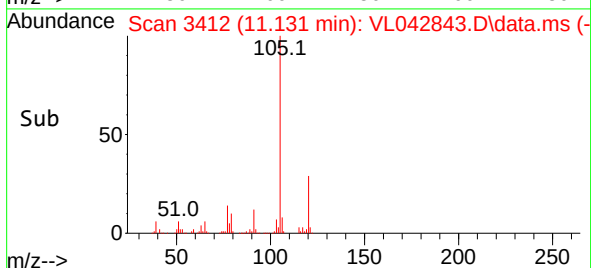
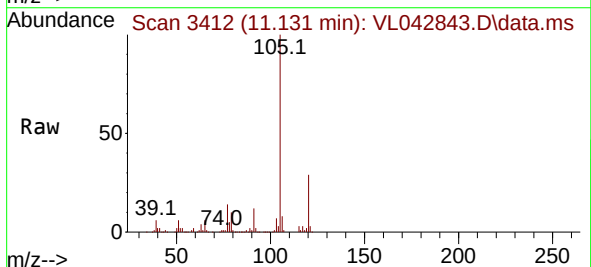
Manual Integrations
APPROVED

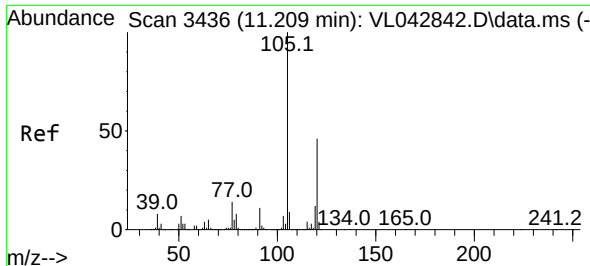
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#72
4-Ethyltoluene
Concen: 2.115 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

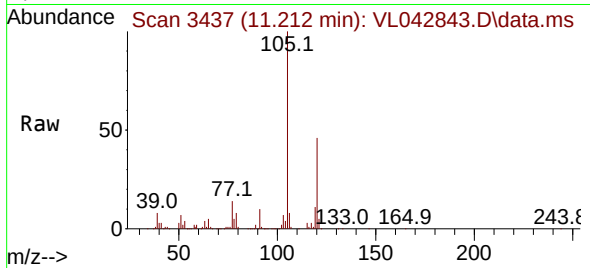
Tgt Ion:105 Resp: 129786
Ion Ratio Lower Upper
105 100
120 29.4 23.4 35.2
91 13.3 9.8 14.6
77 14.2 10.6 16.0





#73
1,3,5-Trimethylbenzene
Concen: 2.109 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

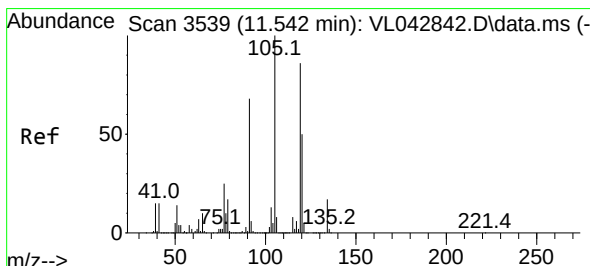
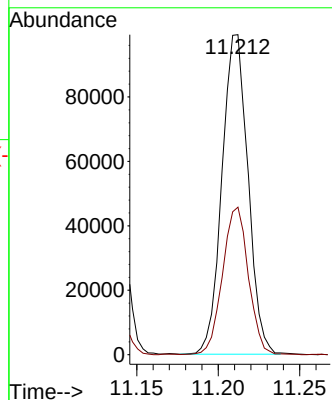
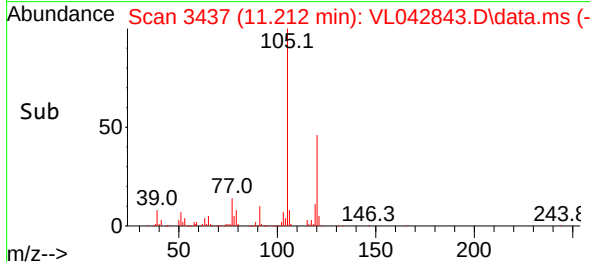
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



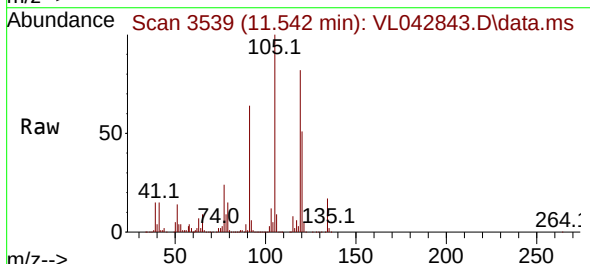
Tgt Ion:105 Resp: 11004
Ion Ratio Lower Upper
105 100
120 46.1 36.6 54.8

Manual Integrations
APPROVED

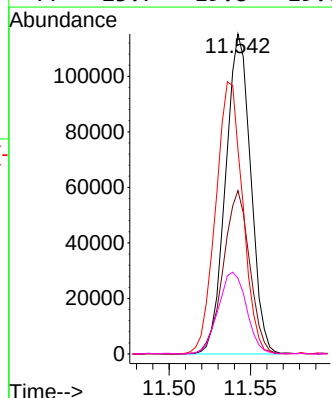
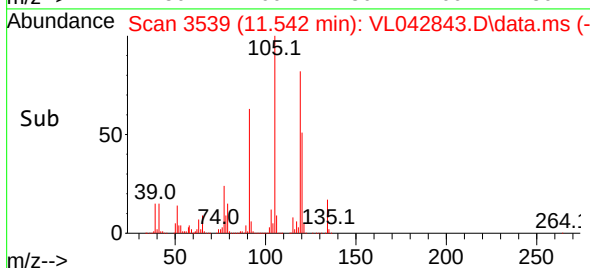
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

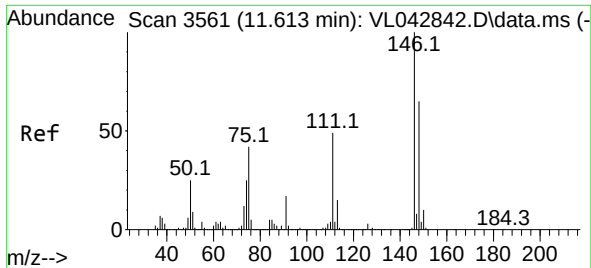


#74
1,2,4-Trimethylbenzene
Concen: 2.157 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



Tgt Ion:105 Resp: 123554
Ion Ratio Lower Upper
105 100
120 51.0 39.8 59.6
91 63.9 54.2 81.4
77 23.7 19.8 29.6





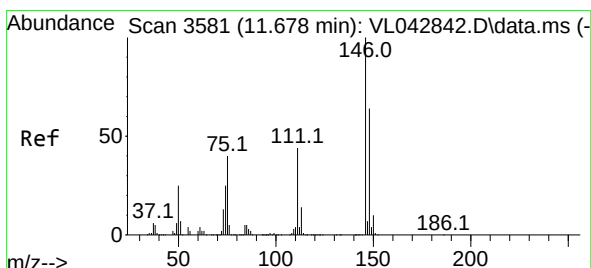
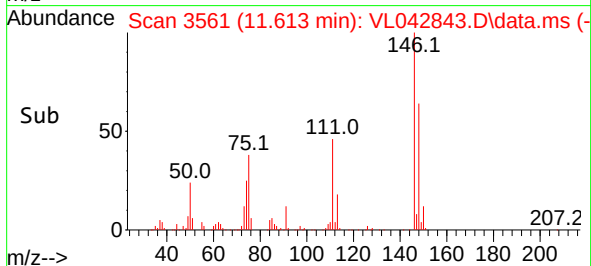
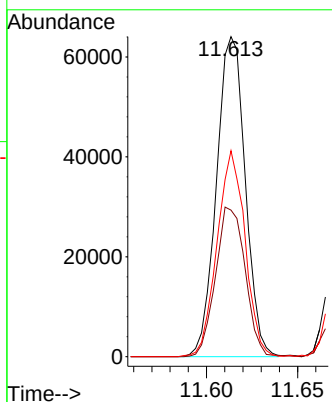
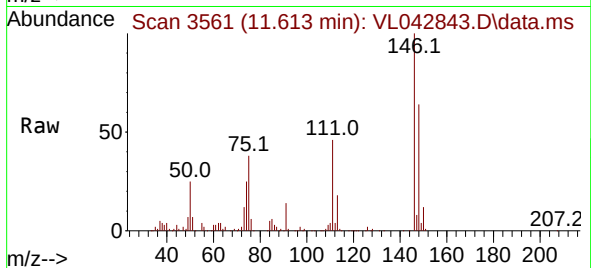
#75
1,3-Dichlorobenzene
Concen: 2.160 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:146 Resp: 70330
Ion Ratio Lower Upper
146 100
111 48.0 23.9 71.7
148 62.5 31.4 94.0

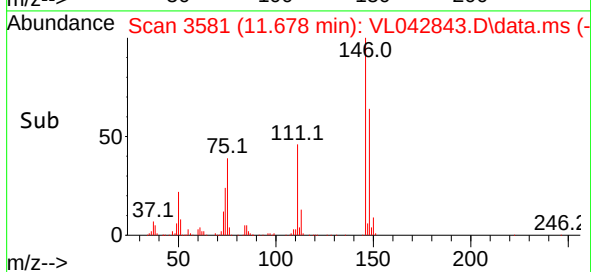
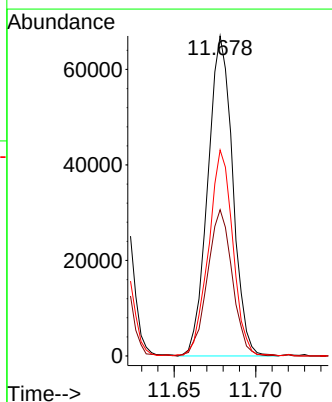
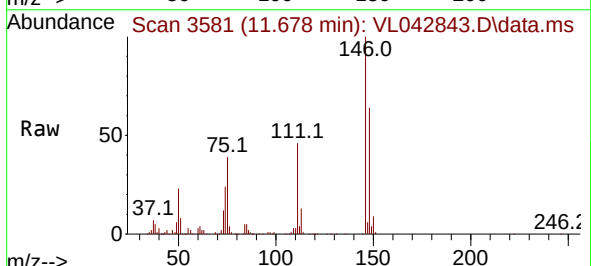
Manual Integrations
APPROVED

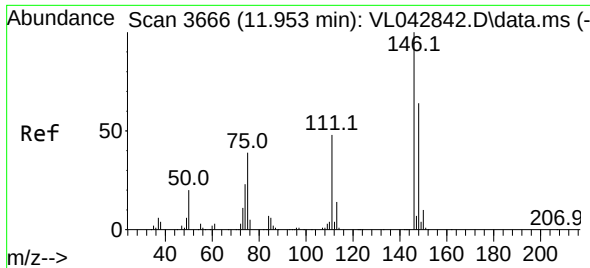
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#76
1,4-Dichlorobenzene
Concen: 2.161 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:146 Resp: 71160
Ion Ratio Lower Upper
146 100
111 45.7 22.7 68.1
148 62.9 31.8 95.3





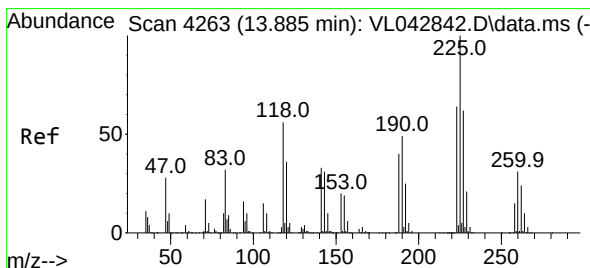
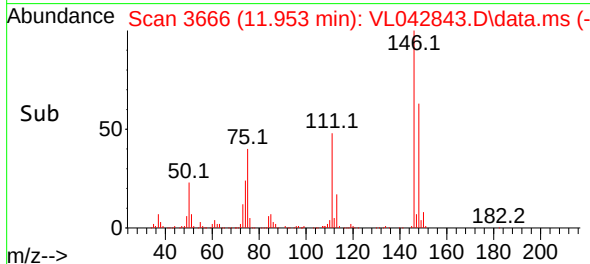
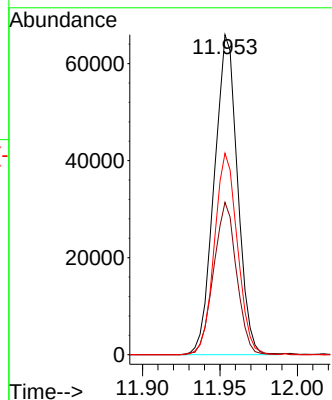
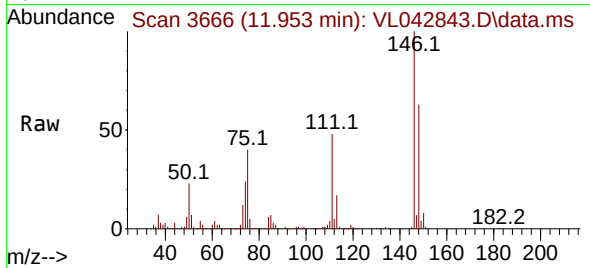
#77
1,2-Dichlorobenzene
Concen: 2.162 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:146 Resp: 6894
Ion Ratio Lower Upper
146 100
111 47.1 24.6 74.0
148 62.5 32.0 96.0

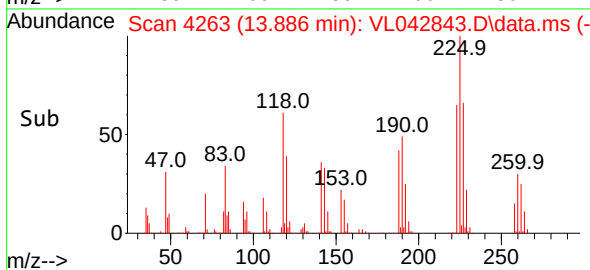
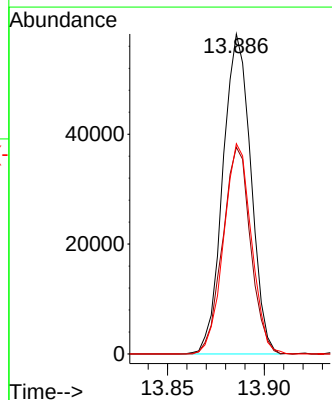
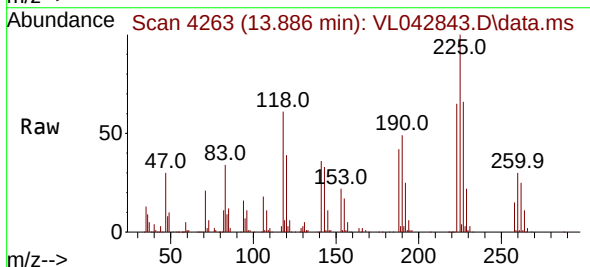
Manual Integrations
APPROVED

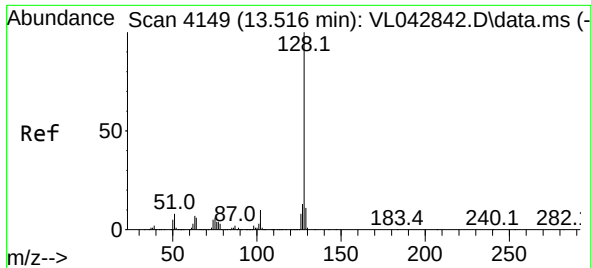
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#78
Hexachloro-1,3-Butadiene
Concen: 2.239 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

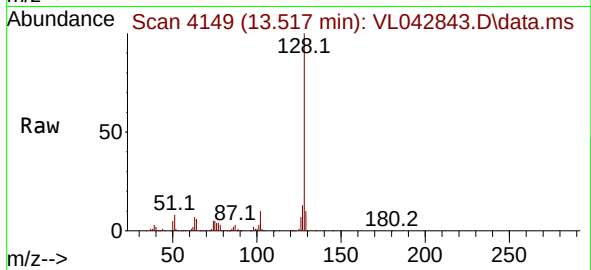
Tgt Ion:225 Resp: 58509
Ion Ratio Lower Upper
225 100
223 64.5 51.4 77.2
227 65.2 51.9 77.9





#79
Naphthalene
Concen: 2.478 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

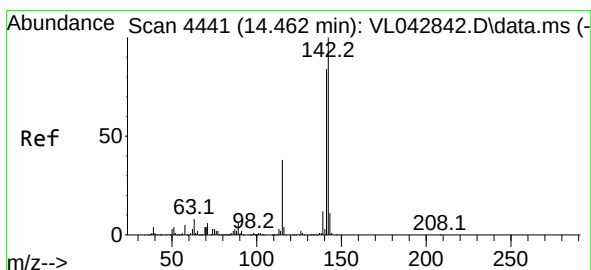
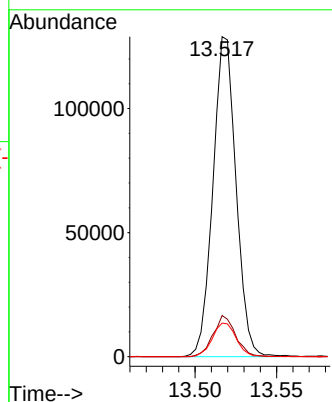
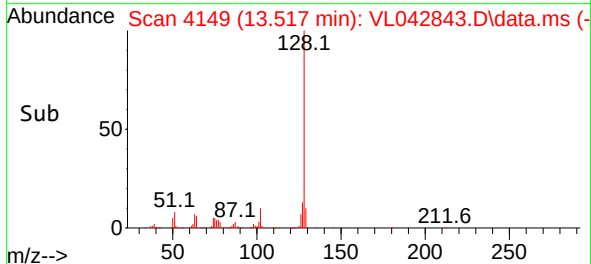
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



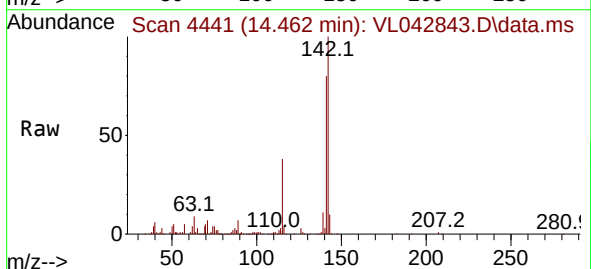
Tgt Ion:128 Resp: 127025
Ion Ratio Lower Upper
128 100
127 12.9 10.6 16.0
129 10.5 8.9 13.3

Manual Integrations
APPROVED

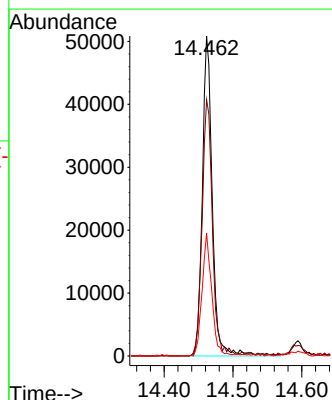
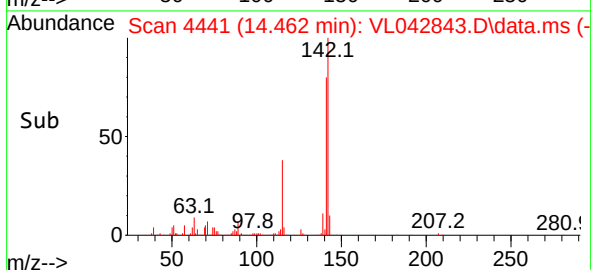
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

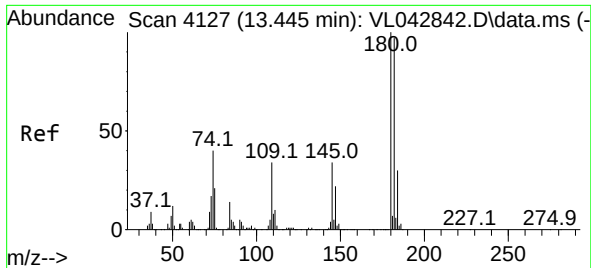


#80
Naphthalene,2-methyl-
Concen: 2.670 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06



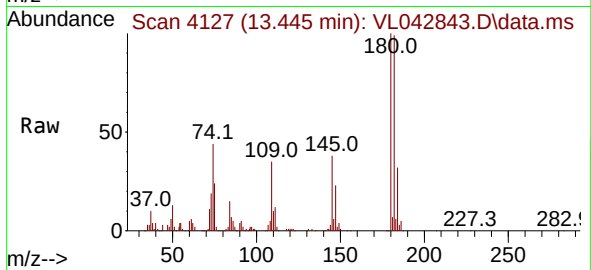
Tgt Ion:142 Resp: 51541
Ion Ratio Lower Upper
142 100
141 83.9 67.0 100.6
115 37.8 30.9 46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 2.384 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

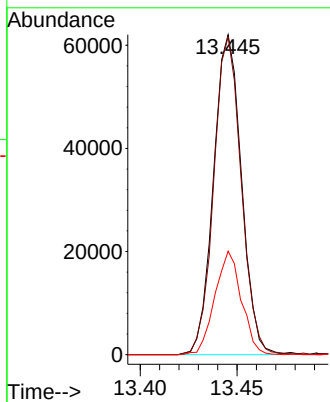
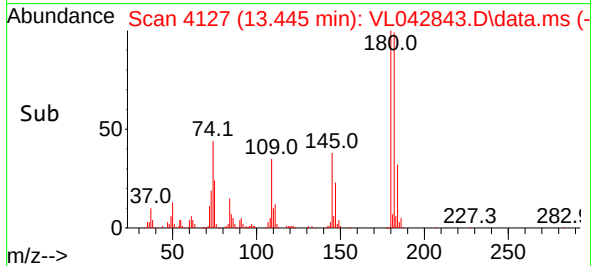
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:180 Resp: 62210
 Ion Ratio Lower Upper
 180 100
 182 98.0 76.9 115.3
 184 30.8 24.5 36.7

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



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

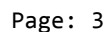
Response via : Initial Calibration

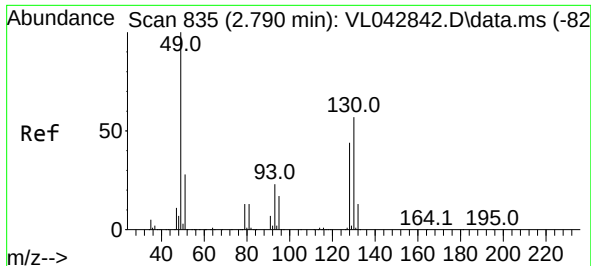
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.610	75	22372	0.999	ppbv	94
47) 1,1,2-Trichloroethane	6.597	97	15295	1.032	ppbv	86
48) Dibromochloromethane	7.396	129	24214	1.009	ppbv	99
49) Bromoform	9.490	173	20579	1.040	ppbv	98
50) 4-Methyl-2-Pentanone	5.768	43	36710	1.001	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

Manual Integrations

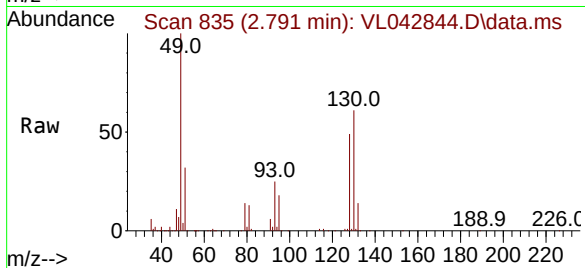
Quant Time: Aug 14 01:47:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 835
Delta R.T. 0.001 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

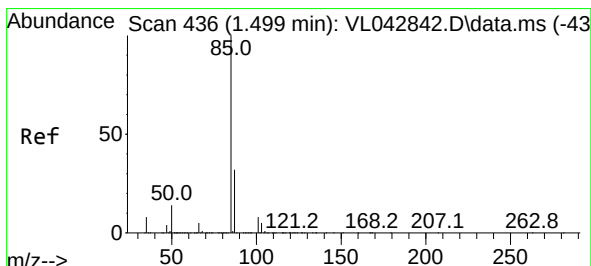
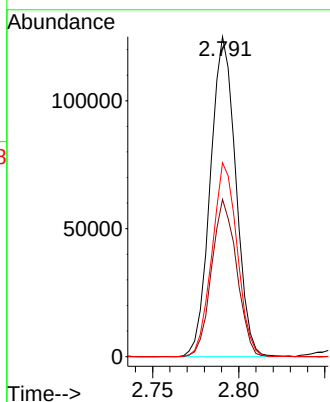
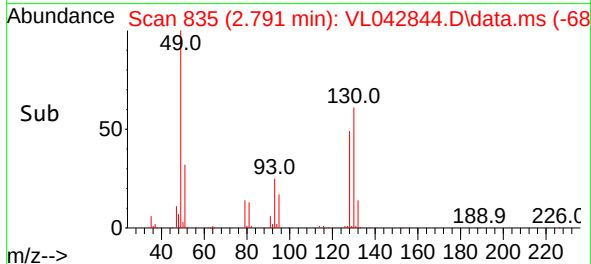
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



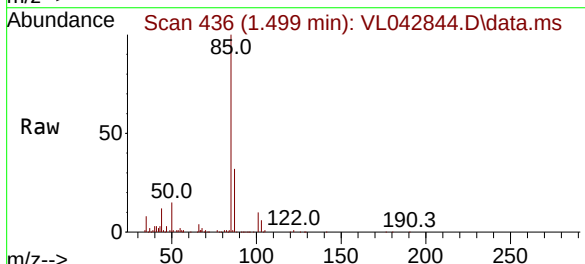
Tgt Ion: 49 Resp: 12854
Ion Ratio Lower Upper
49 100
128 48.4 23.7 71.1
130 59.9 30.6 91.6

Manual Integrations
APPROVED

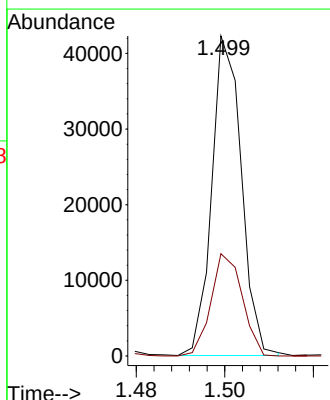
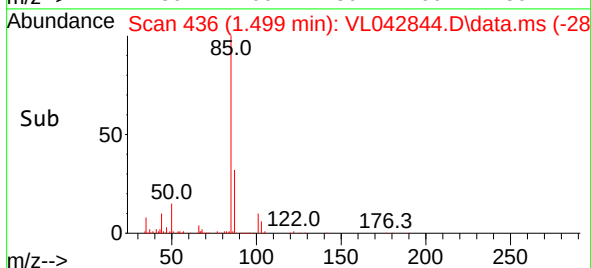
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

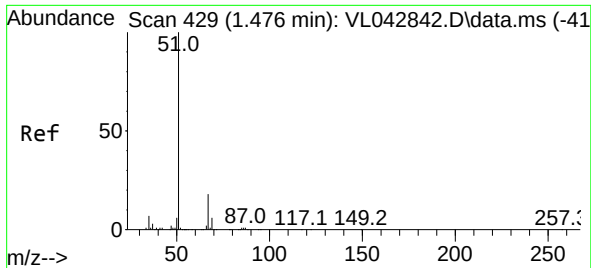


#2
Dichlorodifluoromethane
Concen: 1.041 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



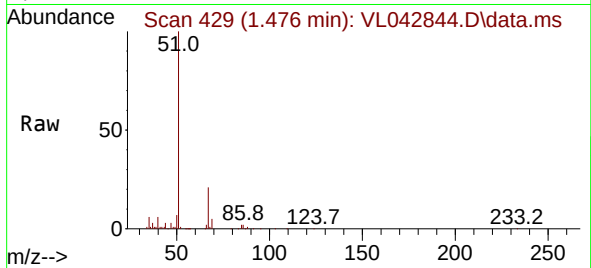
Tgt Ion: 85 Resp: 19603
Ion Ratio Lower Upper
85 100
87 32.0 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.999 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

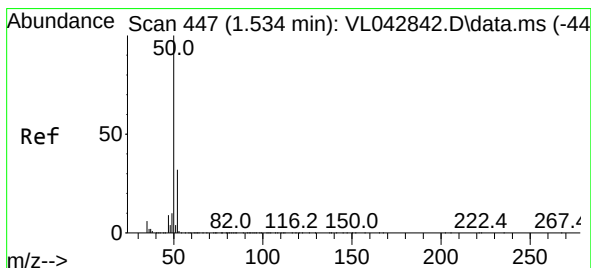
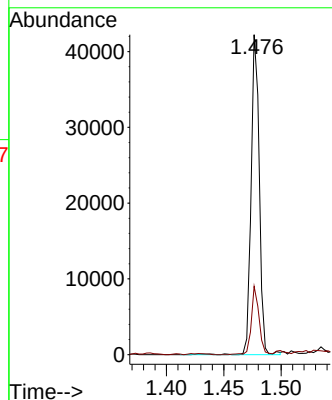
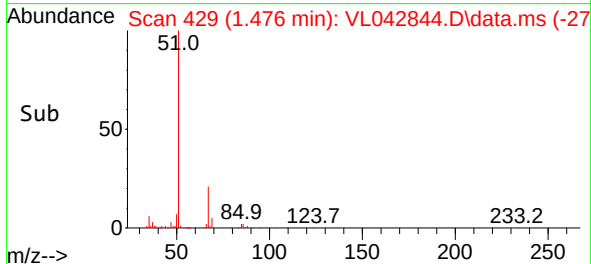
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



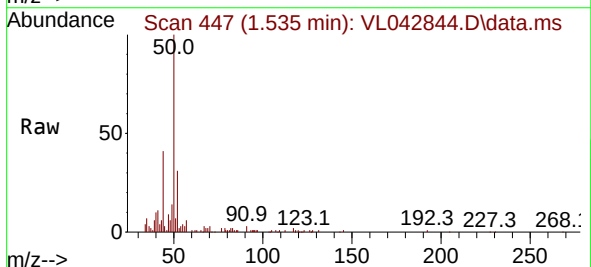
Tgt Ion: 51 Resp: 2083
Ion Ratio Lower Upper
51 100
67 21.9 14.9 22.3

Manual Integrations
APPROVED

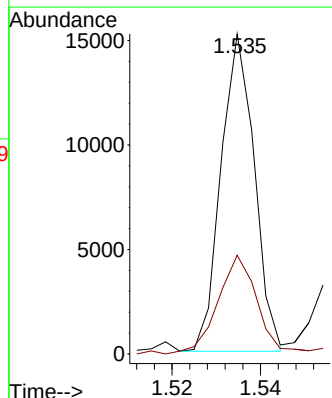
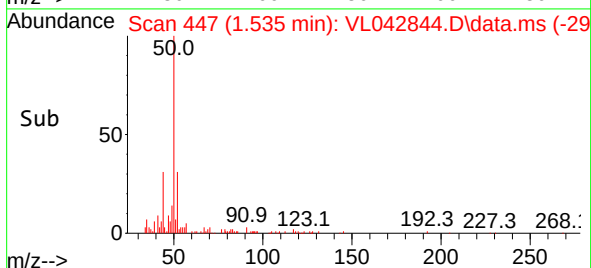
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

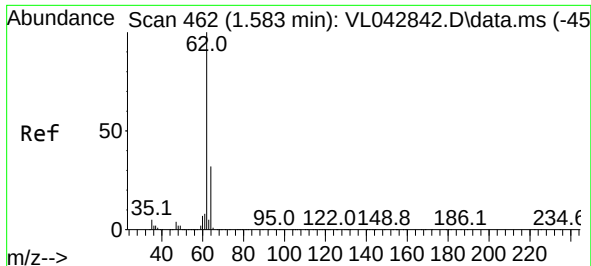


#4
Chloromethane
Concen: 1.045 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



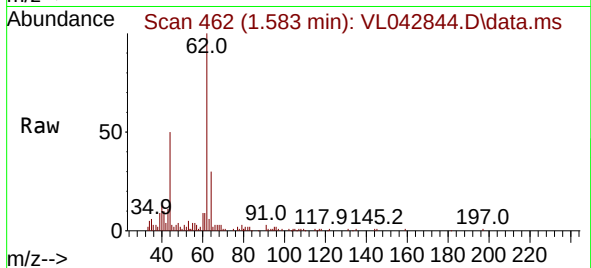
Tgt Ion: 50 Resp: 7948
Ion Ratio Lower Upper
50 100
52 30.2 25.9 38.9





#5
 Vinyl Chloride
 Concen: 0.960 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

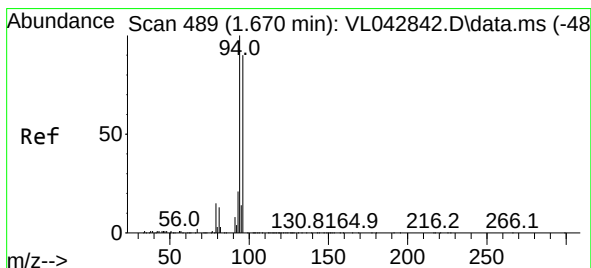
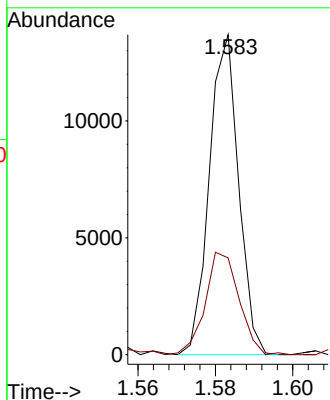
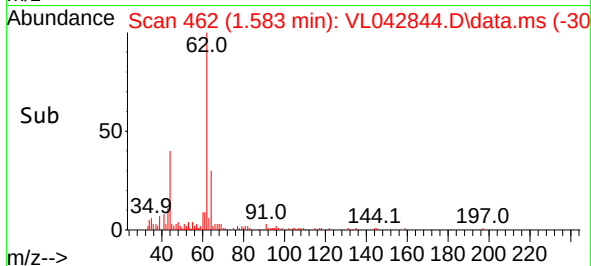
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



Tgt Ion: 62 Resp: 7189
 Ion Ratio Lower Upper
 62 100
 64 29.7 25.4 38.2

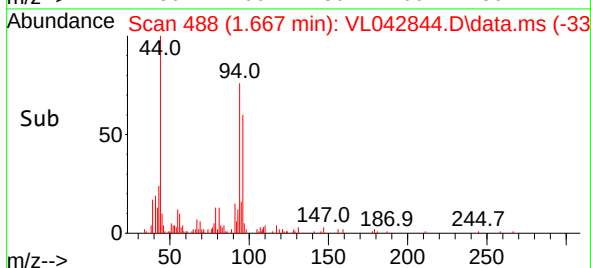
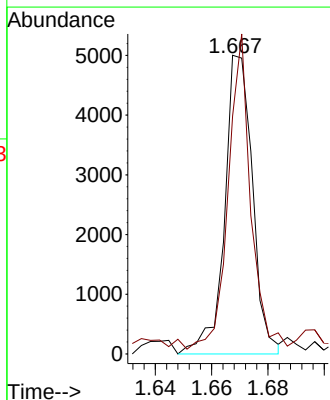
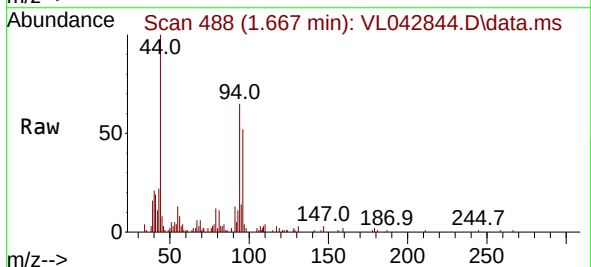
Manual Integrations
 APPROVED

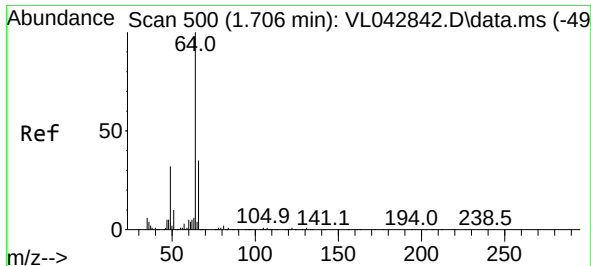
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#6
 Bromomethane
 Concen: 1.151 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion: 94 Resp: 3446
 Ion Ratio Lower Upper
 94 100
 96 74.7 72.1 108.1





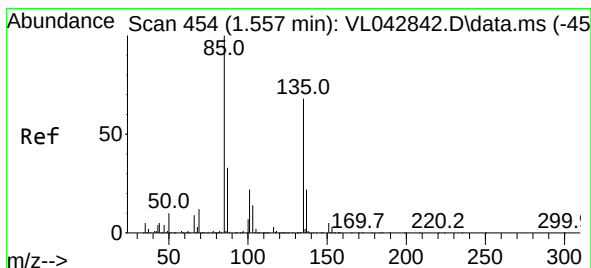
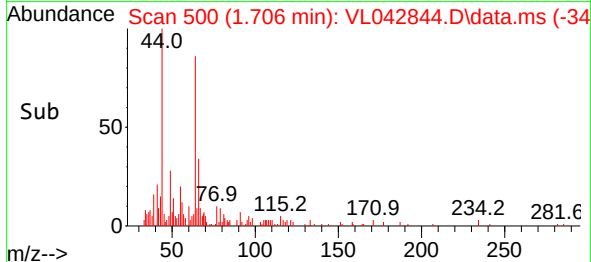
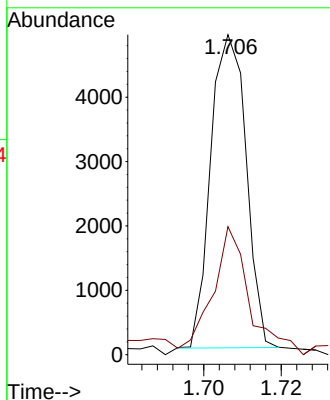
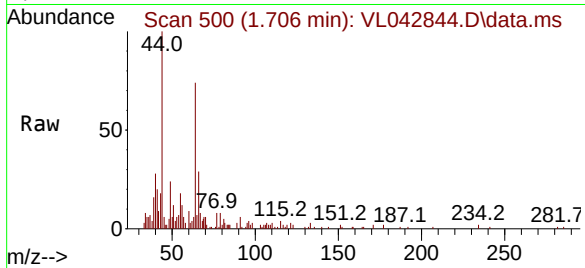
#7
Chloroethane
Concen: 1.056 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 3089
Ion Ratio Lower Upper
64 100
66 40.0 28.6 42.8

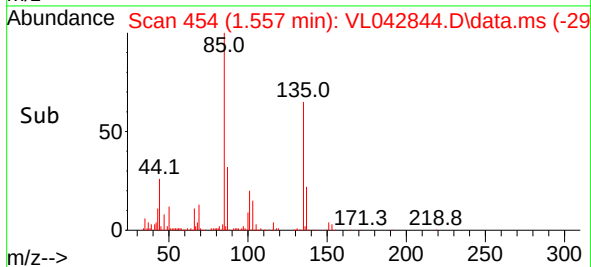
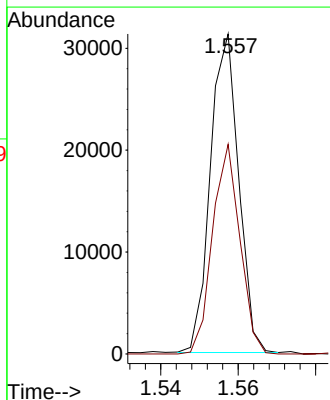
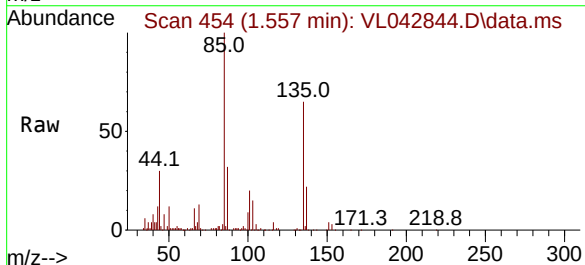
Manual Integrations
APPROVED

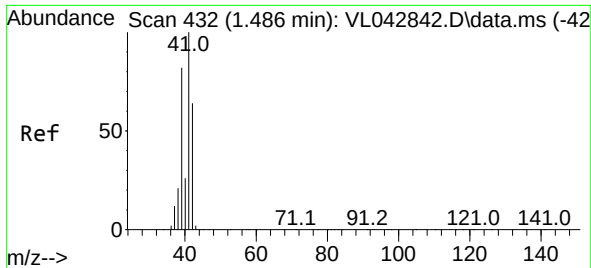
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#8
Dichlorotetrafluoroethane
Concen: 1.030 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

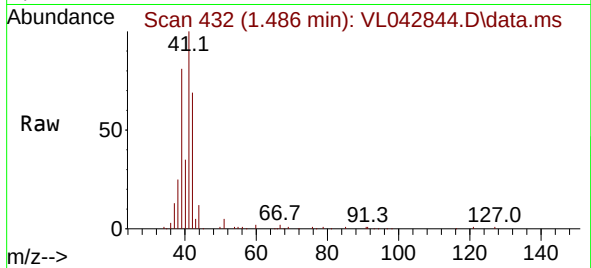
Tgt Ion: 85 Resp: 15872
Ion Ratio Lower Upper
85 100
135 63.7 51.2 76.8





#9
 Propene
 Concen: 0.989 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

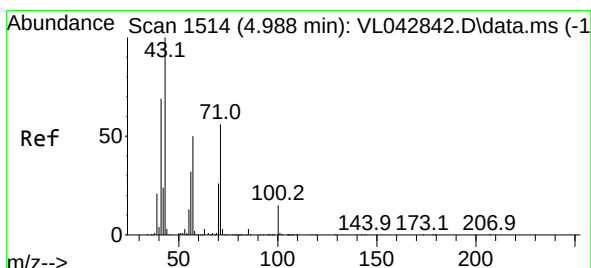
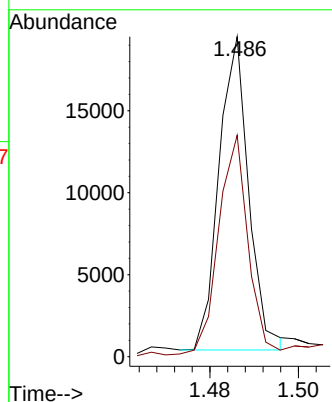
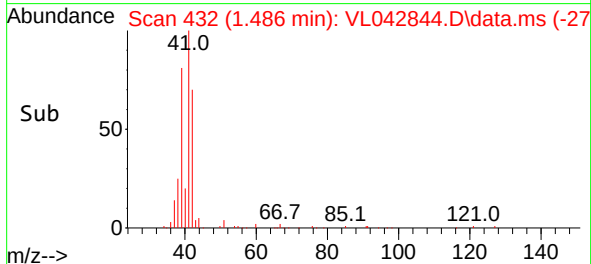
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



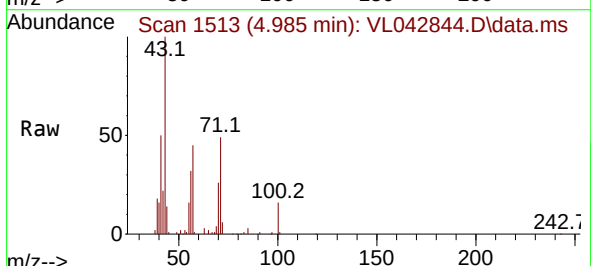
Tgt Ion: 41 Resp: 889
 Ion Ratio Lower Upper
 41 100
 42 74.9 53.0 79.4

Manual Integrations
 APPROVED

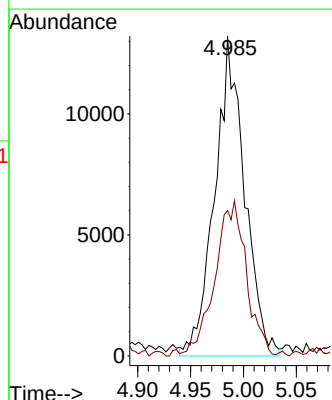
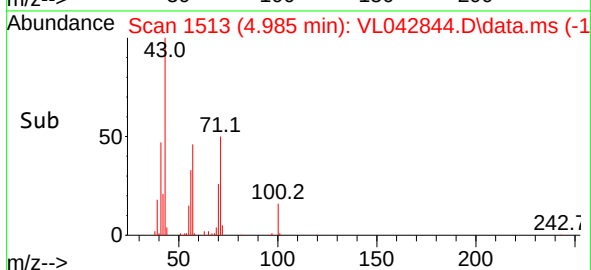
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

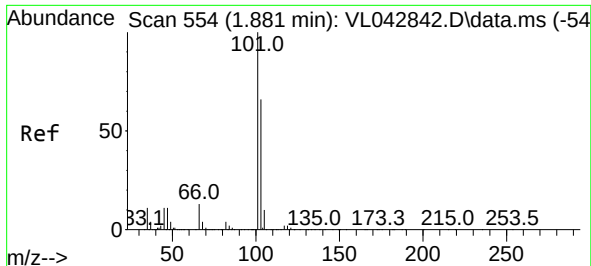


#10
 Heptane
 Concen: 1.075 ppbv m
 RT: 4.985 min Scan# 1513
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41



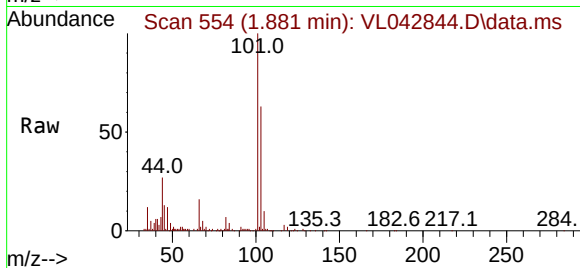
Tgt Ion: 43 Resp: 25850
 Ion Ratio Lower Upper
 43 100
 57 52.0 41.4 62.0





#11
 Trichlorofluoromethane
 Concen: 1.060 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

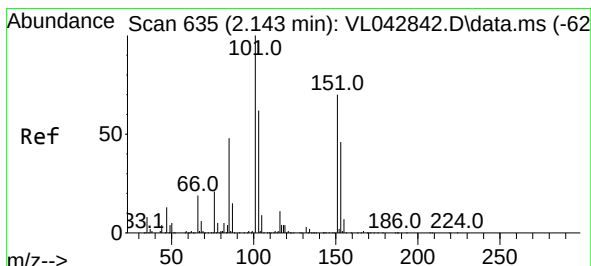
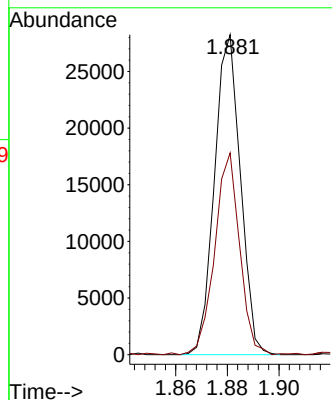
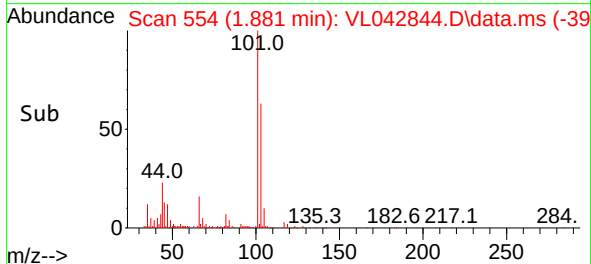
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



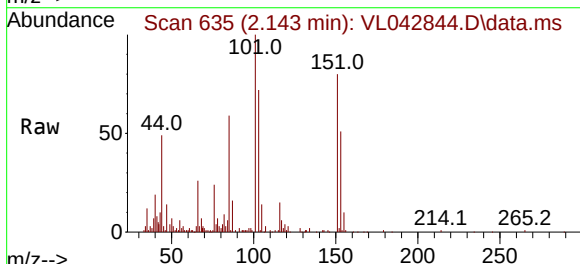
Tgt Ion:101 Resp: 1970
 Ion Ratio Lower Upper
 101 100
 103 62.8 52.5 78.7

Manual Integrations
 APPROVED

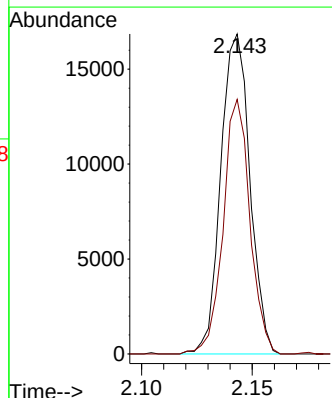
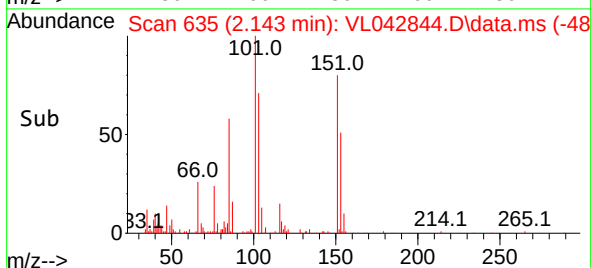
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

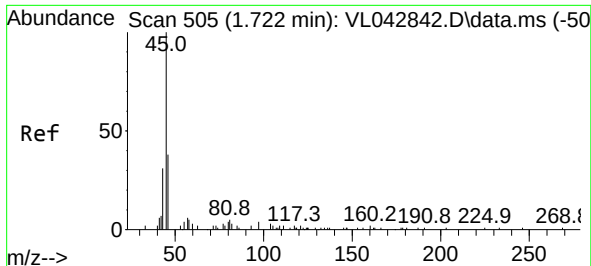


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.043 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41



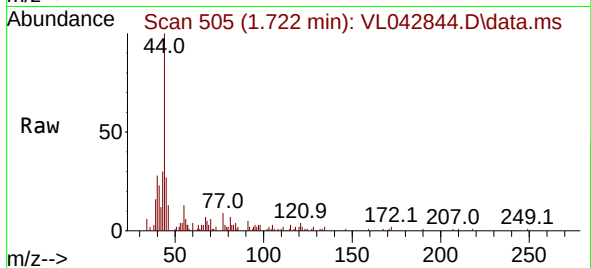
Tgt Ion:101 Resp: 15446
 Ion Ratio Lower Upper
 101 100
 151 73.2 56.4 84.6





#13
Ethanol
Concen: 0.991 ppbv m
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

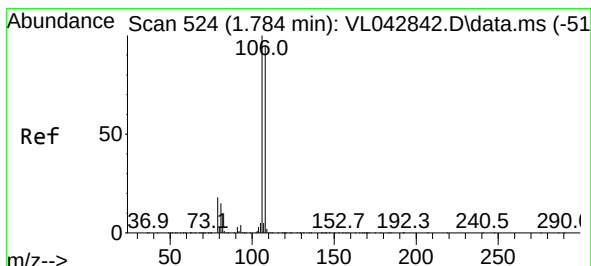
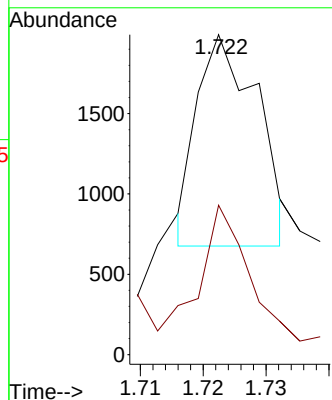
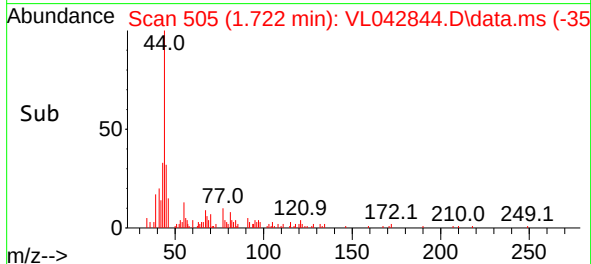
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



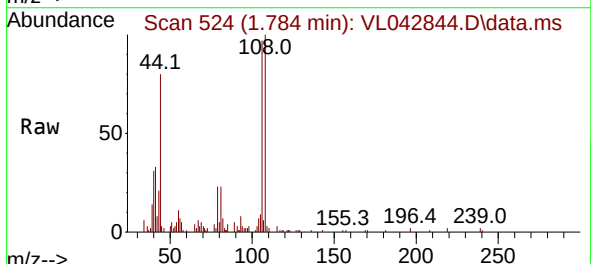
Tgt Ion: 45 Resp: 88
Ion Ratio Lower Upper
45 100
46 92.1 17.5 69.9

Manual Integrations
APPROVED

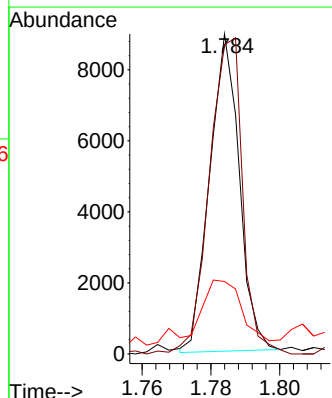
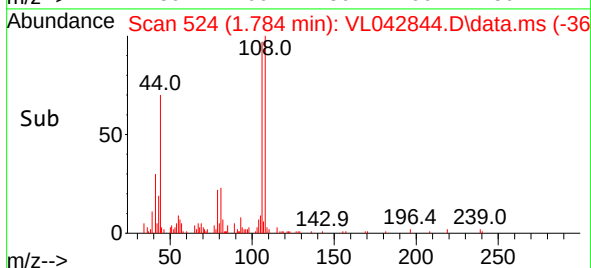
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

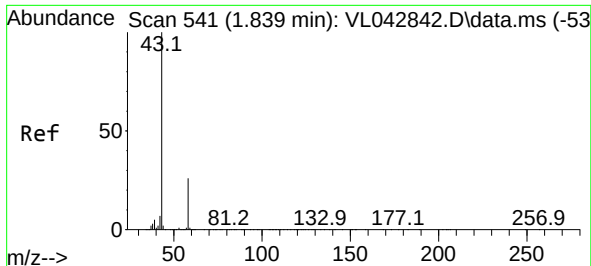


#14
Bromoethene
Concen: 0.996 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



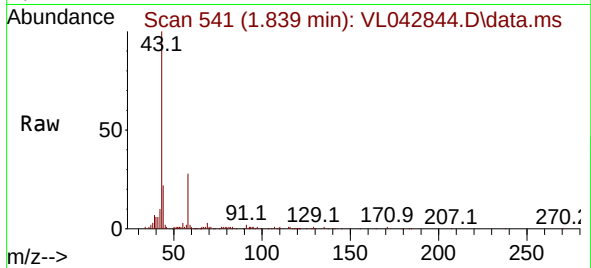
Tgt Ion:108 Resp: 5343
Ion Ratio Lower Upper
108 100
106 117.1 85.1 127.7
79 58.9 16.3 24.5





#15
Acetone
Concen: 1.115 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

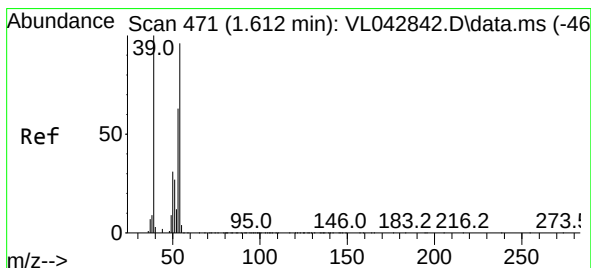
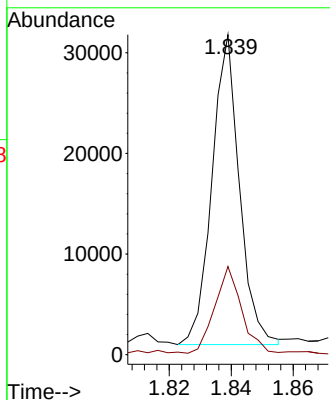
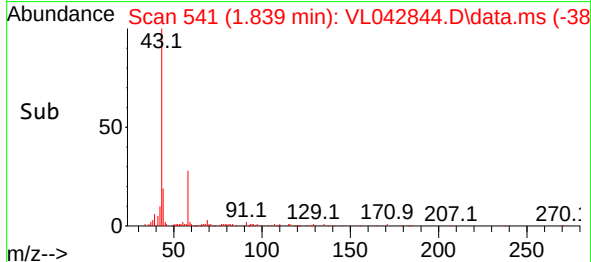
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



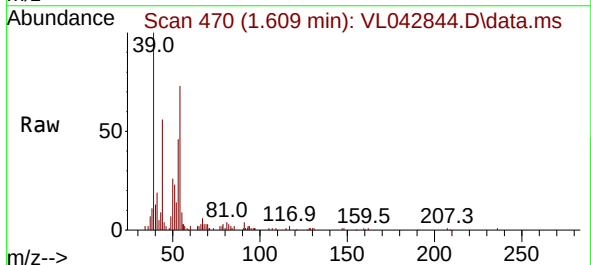
Tgt Ion: 43 Resp: 1896
Ion Ratio Lower Upper
43 100
58 29.1 22.4 33.6

Manual Integrations
APPROVED

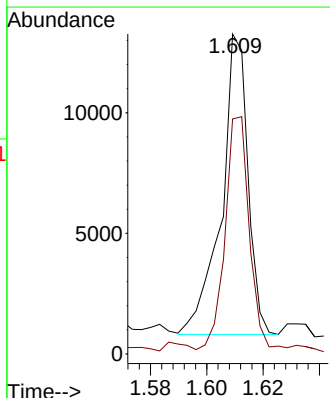
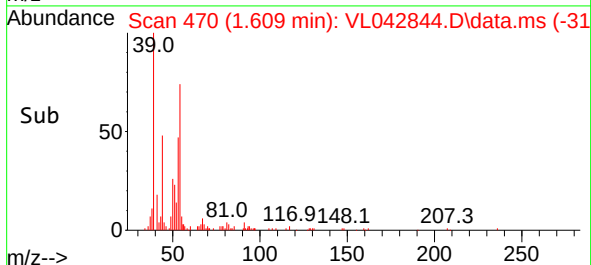
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

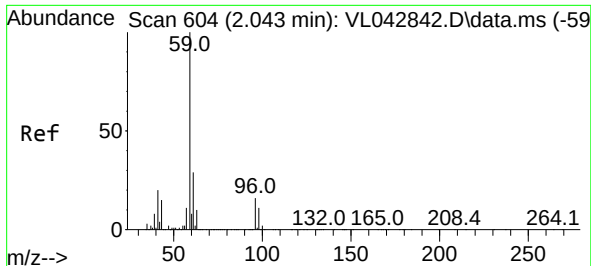


#16
1,3-Butadiene
Concen: 1.055 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



Tgt Ion: 39 Resp: 8133
Ion Ratio Lower Upper
39 100
54 78.0 63.6 95.4





#17

tert-Butyl alcohol

Concen: 1.058 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 59 Resp: 2134

Ion Ratio Lower Upper

59 100

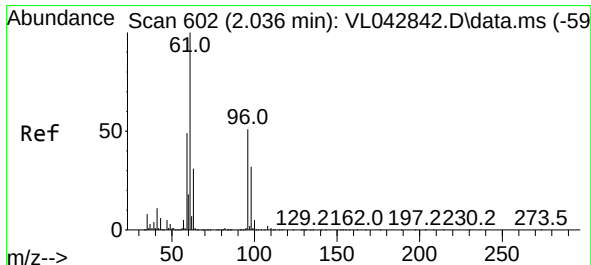
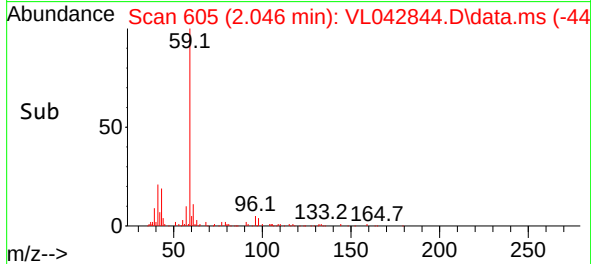
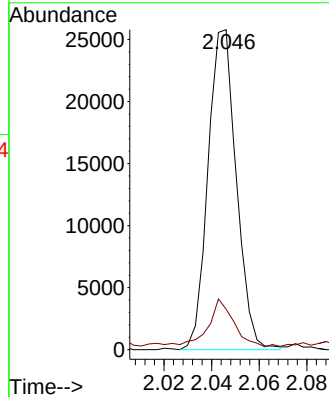
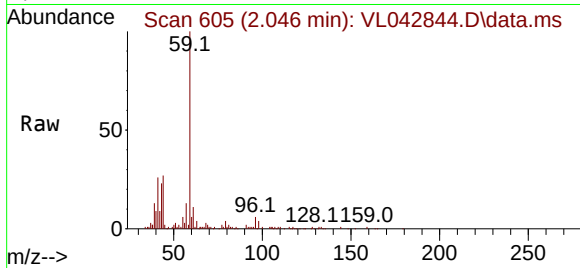
57 13.7 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#18

1,1-Dichloroethene

Concen: 1.006 ppbv

RT: 2.040 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

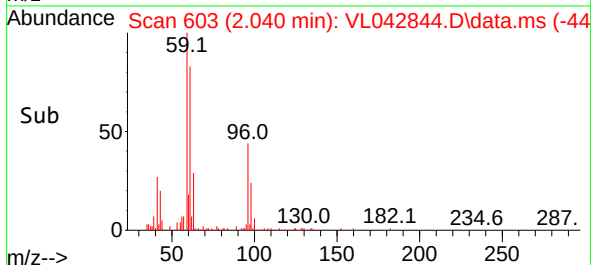
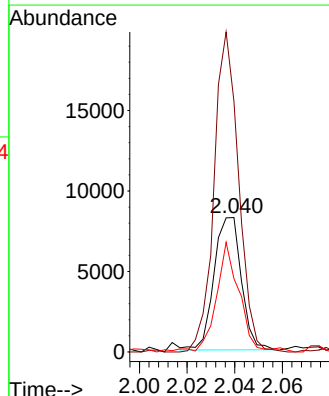
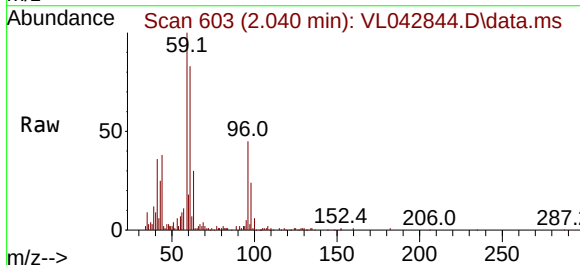
Tgt Ion: 96 Resp: 6549

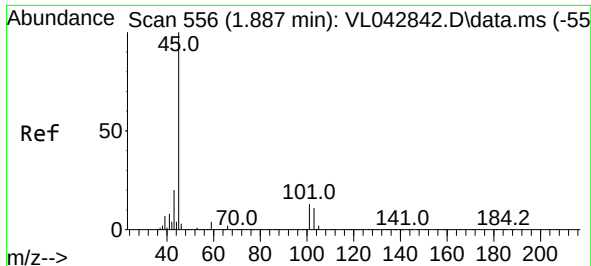
Ion Ratio Lower Upper

96 100

61 189.6 158.2 237.4

98 53.1 50.6 76.0





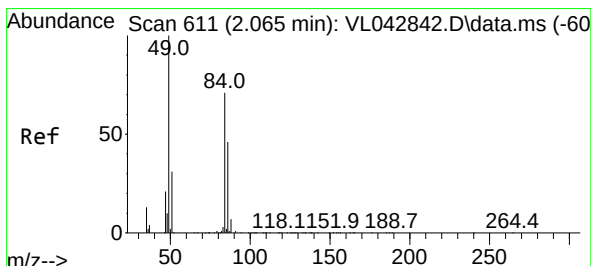
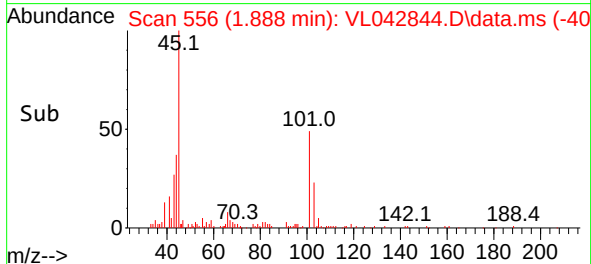
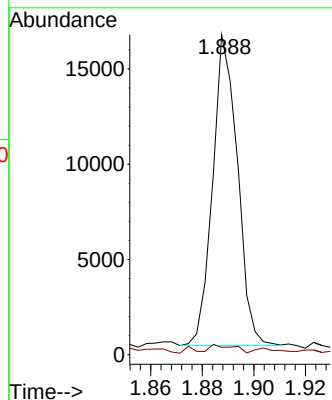
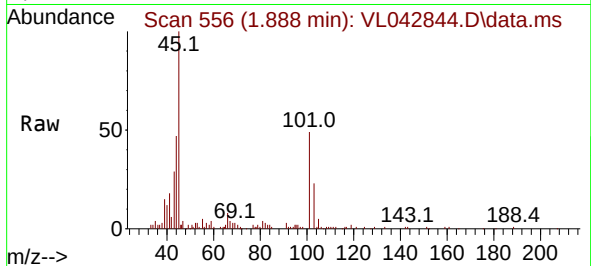
#19
Isopropyl Alcohol
Concen: 1.073 ppbv
RT: 1.888 min Scan# 510
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 1089
Ion Ratio Lower Upper
45 100
58 2.9 32.7 49.1

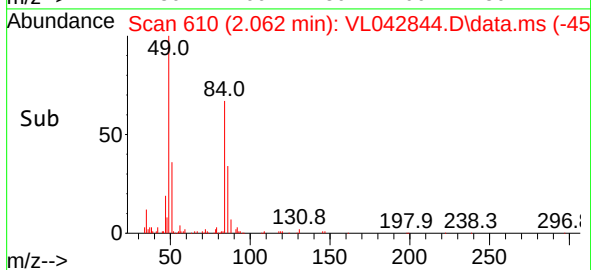
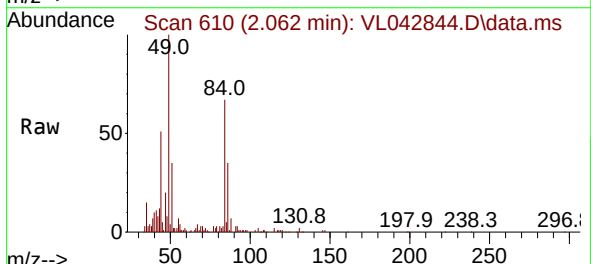
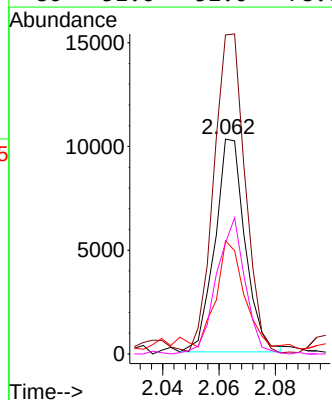
Manual Integrations
APPROVED

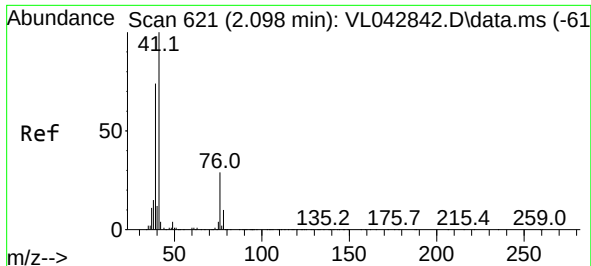
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#20
Methylene Chloride
Concen: 1.076 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

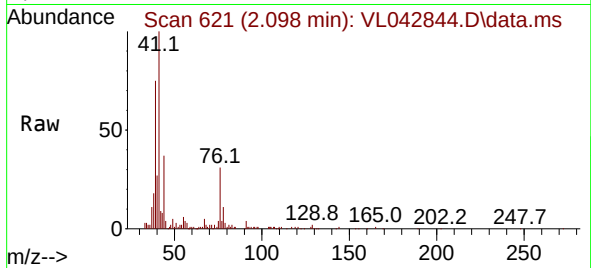
Tgt Ion: 84 Resp: 7661
Ion Ratio Lower Upper
84 100
49 149.4 112.3 168.5
51 49.2 36.0 54.0
86 51.6 52.0 78.0





#21
 Allyl Chloride
 Concen: 0.966 ppbv
 RT: 2.098 min Scan# 611
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

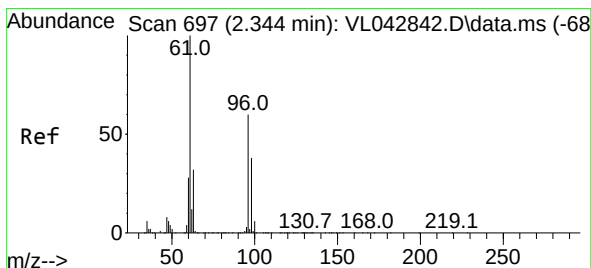
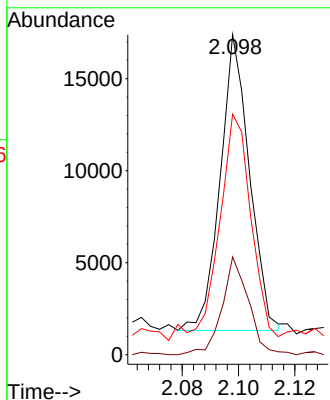
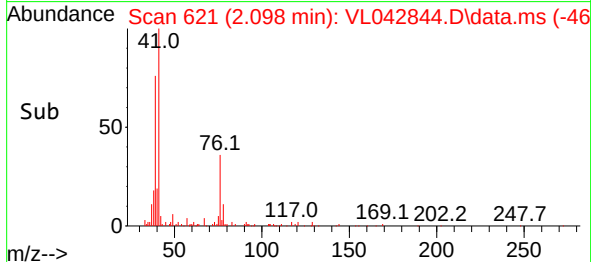
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



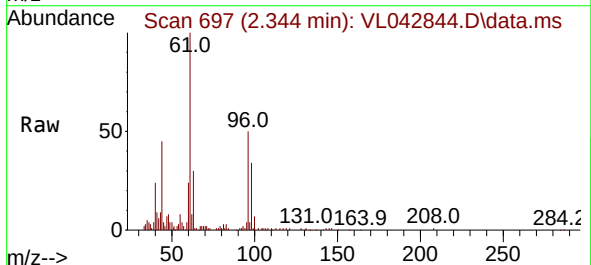
Tgt Ion: 41 Resp: 11598
 Ion Ratio Lower Upper
 41 100
 76 30.9 23.9 35.9
 39 86.2 57.8 86.6

Manual Integrations
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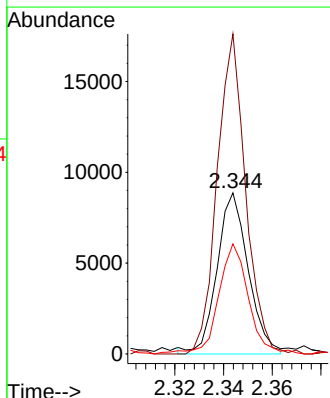
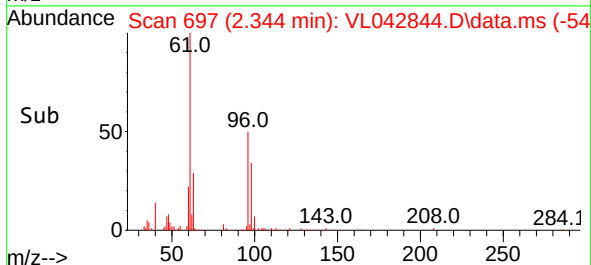
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

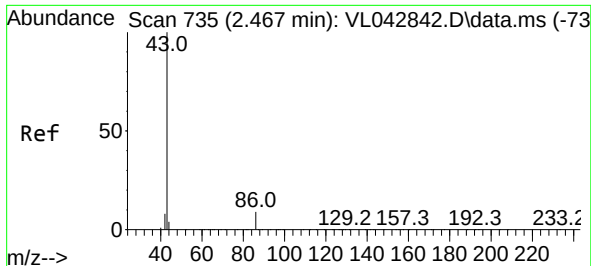


#22
 trans-1,2-Dichloroethene
 Concen: 1.082 ppbv m
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41



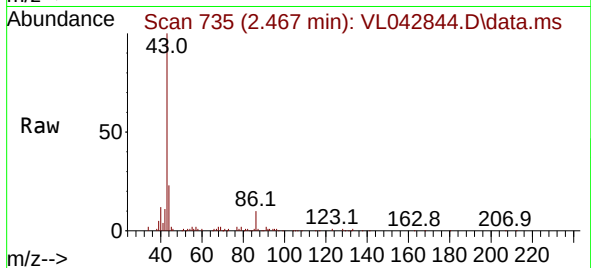
Tgt Ion: 96 Resp: 7882
 Ion Ratio Lower Upper
 96 100
 61 198.6 132.6 199.0
 98 68.3 50.0 75.0





#23
 Vinyl Acetate
 Concen: 0.996 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

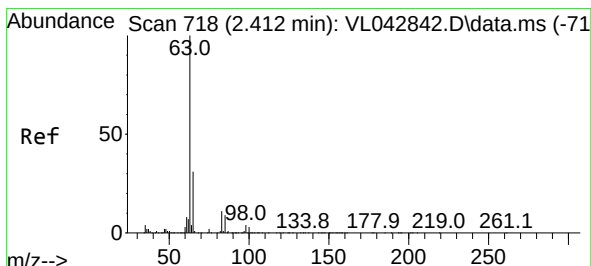
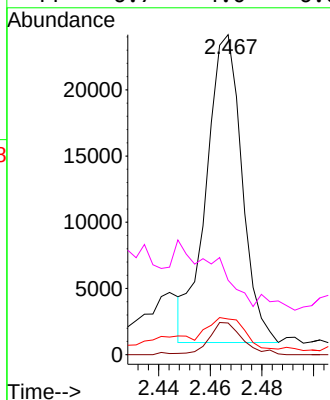
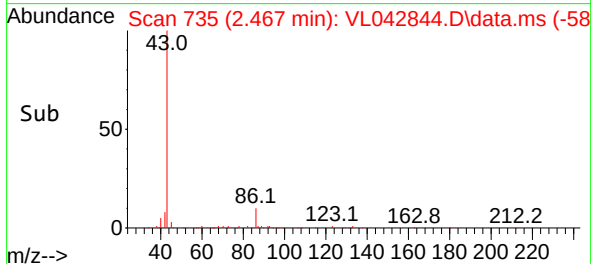
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:	43	Resp:	22270
Ion	Ratio	Lower	Upper
43	100		
86	10.0	6.6	9.8
42	9.8	7.0	10.6
44	6.7	4.0	6.0

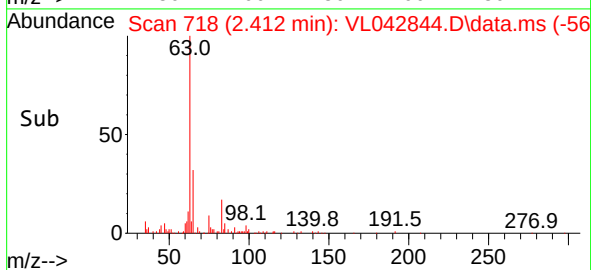
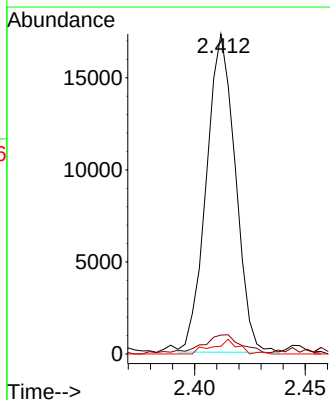
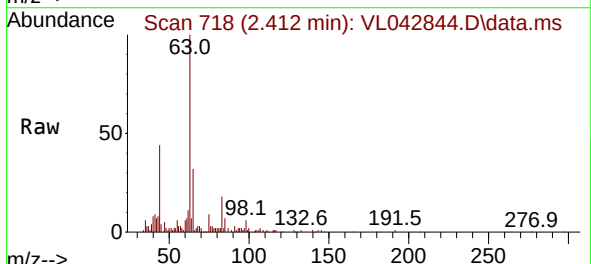
Manual Integrations
 APPROVED

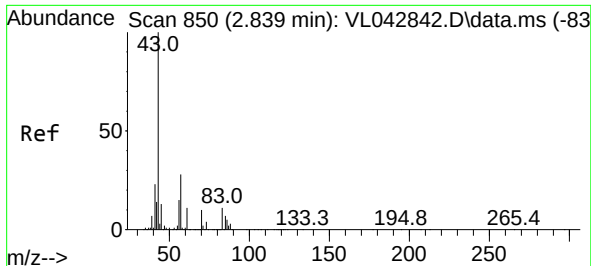
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#24
 1,1-Dichloroethane
 Concen: 1.045 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion:	63	Resp:	15727
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.1	6.5
100	2.4	1.7	5.1





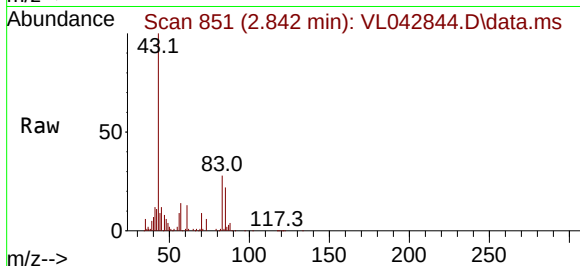
#25
Ethyl Acetate
Concen: 1.045 ppbv
RT: 2.842 min Scan# 850
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

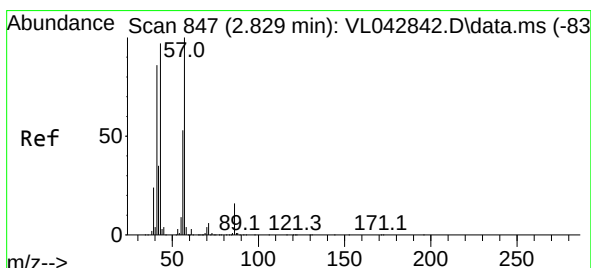
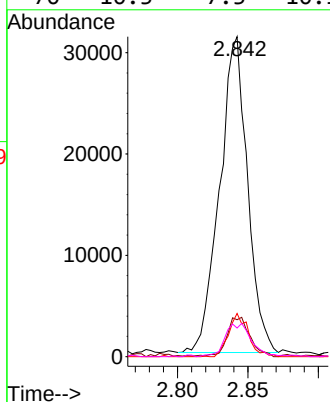
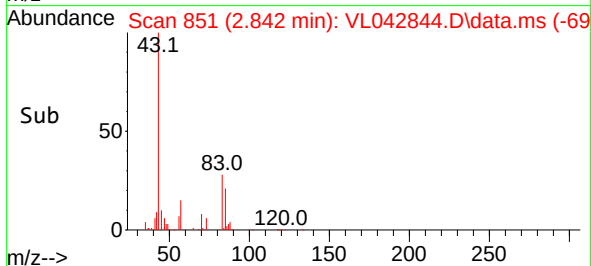


Tgt Ion: 43 Resp: 4300
Ion Ratio Lower Upper
43 100
45 11.2 8.1 12.1
61 9.7 7.4 11.2
70 10.3 7.3 10.9

Manual Integrations

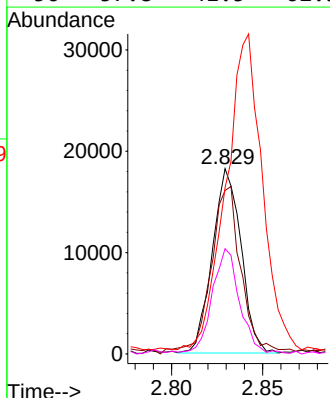
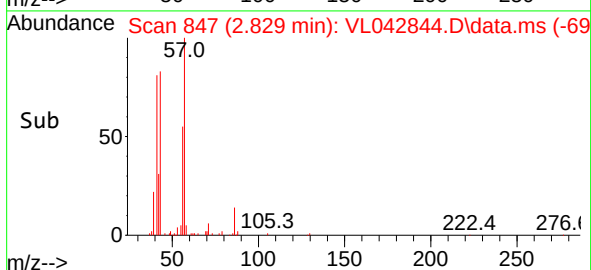
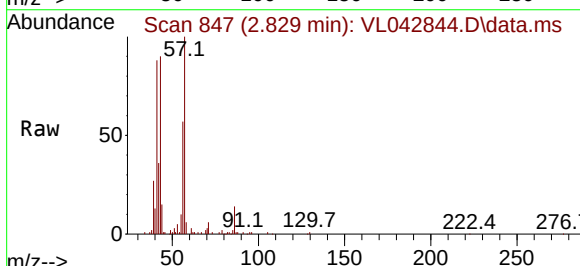
APPROVED

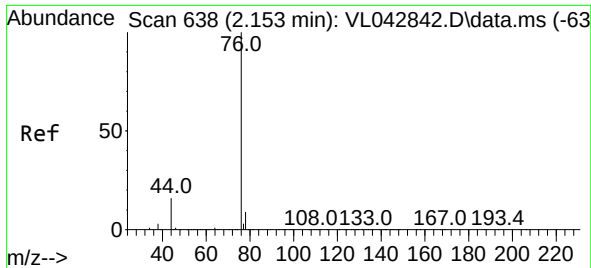
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#26
Hexane
Concen: 1.050 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 57 Resp: 19944
Ion Ratio Lower Upper
57 100
41 93.6 68.6 103.0
43 222.4 168.5 252.7
56 57.8 41.5 62.3





#27

Carbon Disulfide

Concen: 1.052 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

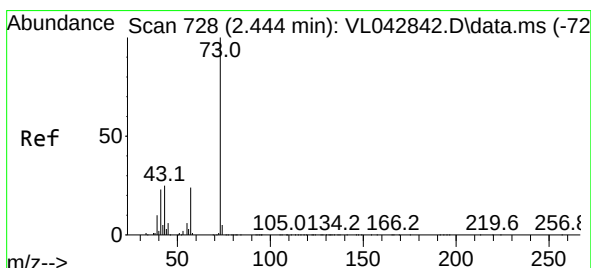
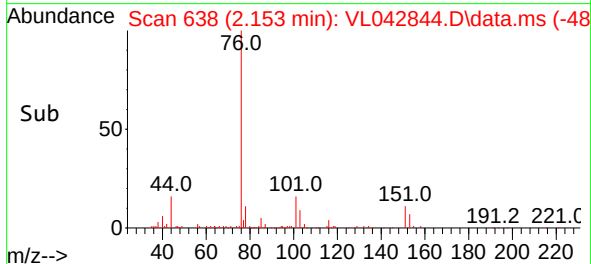
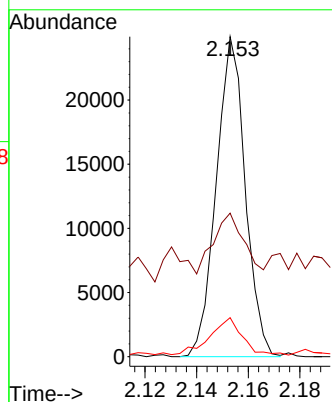
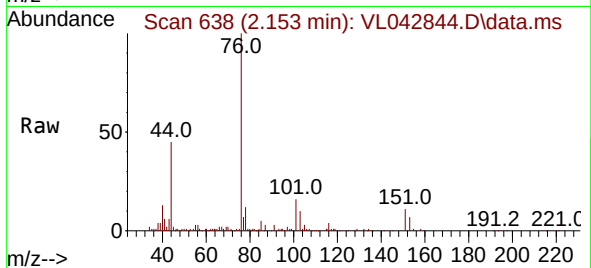
VSTDIC001

Tgt Ion:	76	Resp:	19450
Ion Ratio	Lower	Upper	
76	100		
44	88.3	15.9	23.9
78	17.1	9.5	14.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#28

Methyl tert-Butyl Ether

Concen: 0.991 ppbv

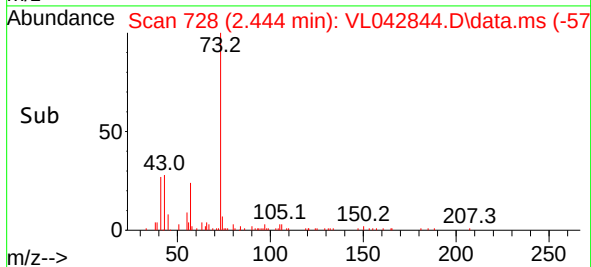
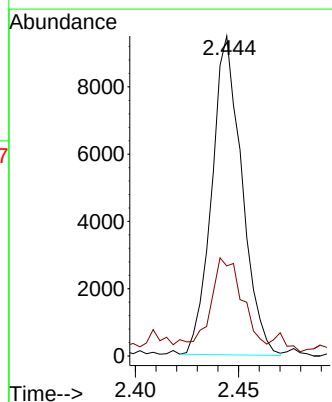
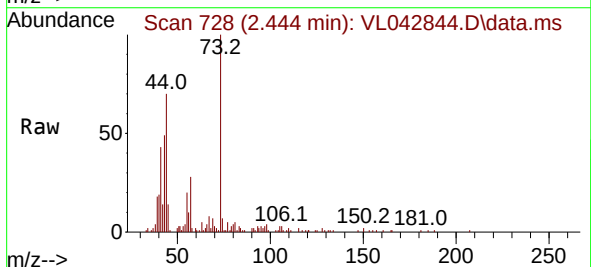
RT: 2.444 min Scan# 728

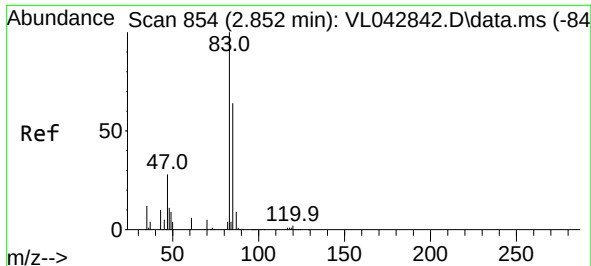
Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Tgt Ion:	73	Resp:	9600
Ion Ratio	Lower	Upper	
73	100		
57	33.4	21.6	32.4





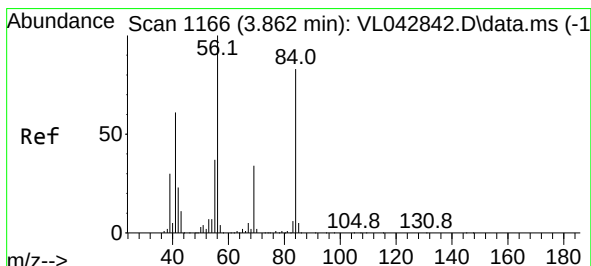
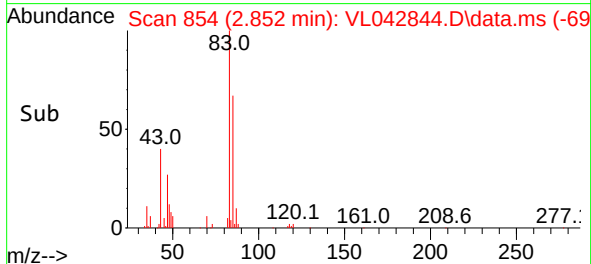
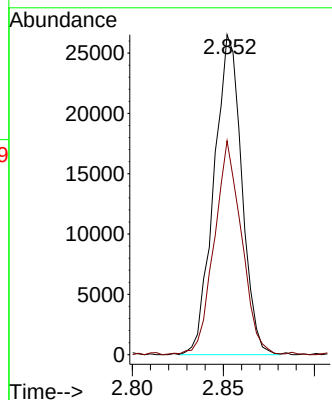
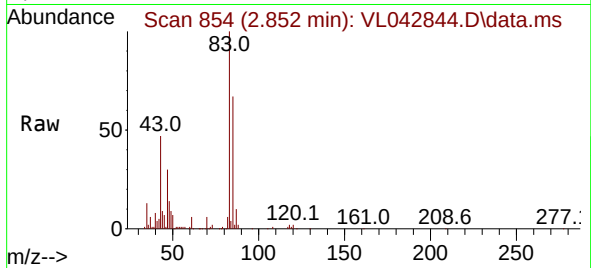
#29
Chloroform
Concen: 1.034 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 83 Resp: 2805
Ion Ratio Lower Upper
83 100
85 66.6 51.1 76.7

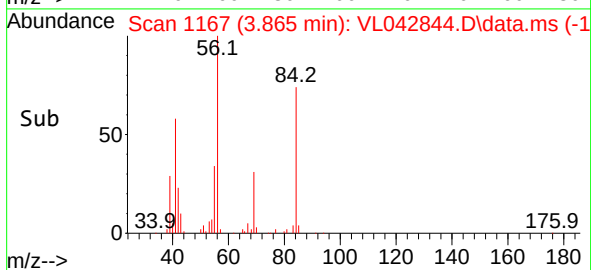
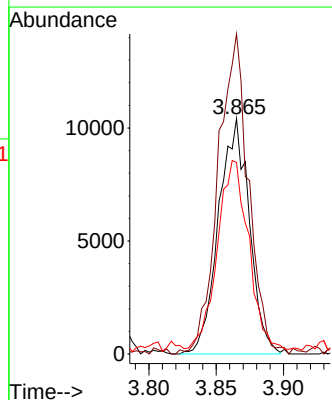
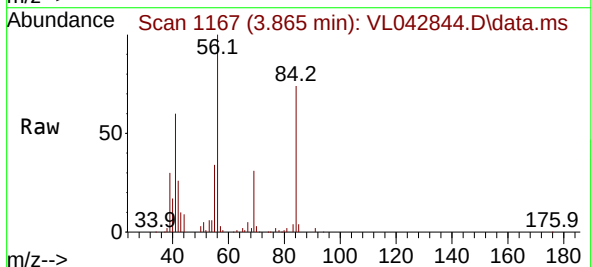
Manual Integrations
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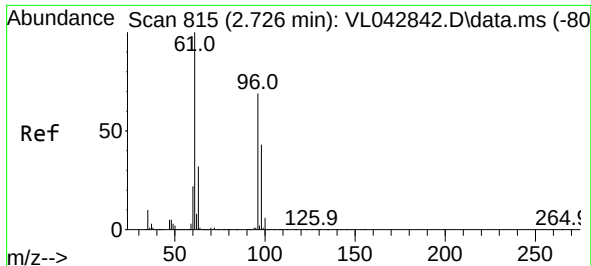
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#30
Cyclohexane
Concen: 0.990 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

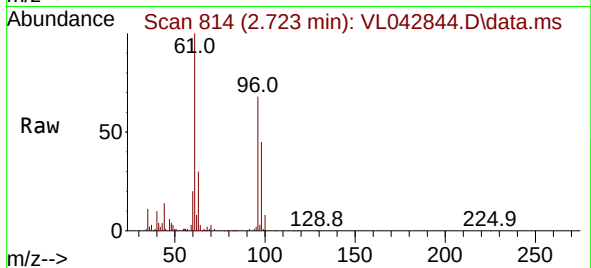
Tgt Ion: 84 Resp: 16492
Ion Ratio Lower Upper
84 100
56 135.9 98.8 148.2
41 84.9 61.3 91.9





#31
 cis-1,2-Dichloroethene
 Concen: 1.031 ppbv
 RT: 2.723 min Scan# 815
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

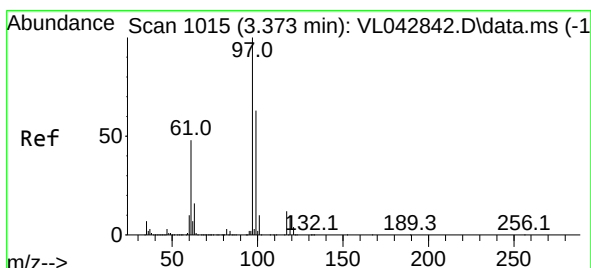
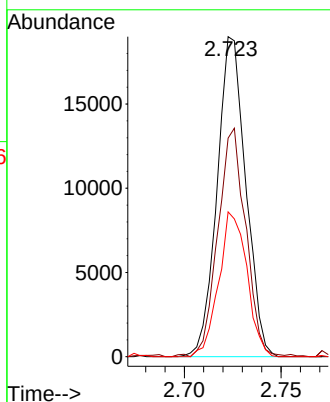
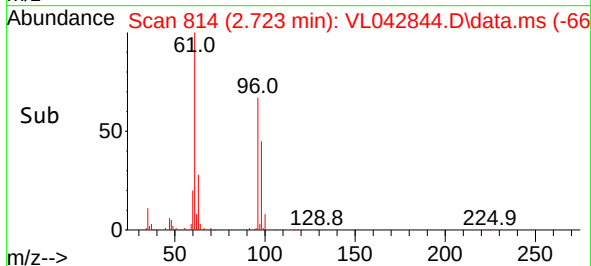
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



Tgt Ion: 61 Resp: 1959
 Ion Ratio Lower Upper
 61 100
 96 67.7 55.0 82.6
 98 45.2 34.3 51.5

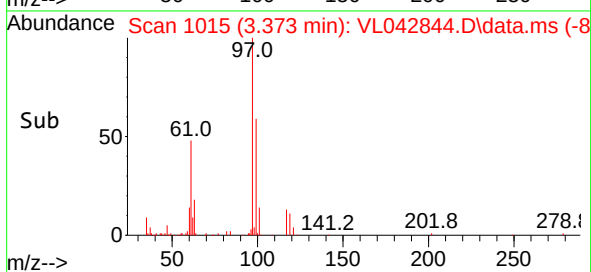
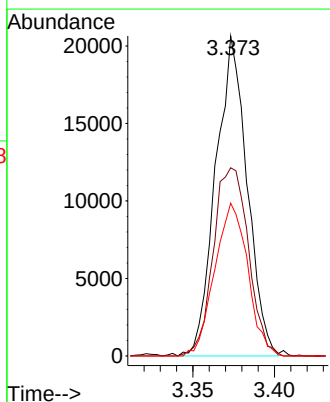
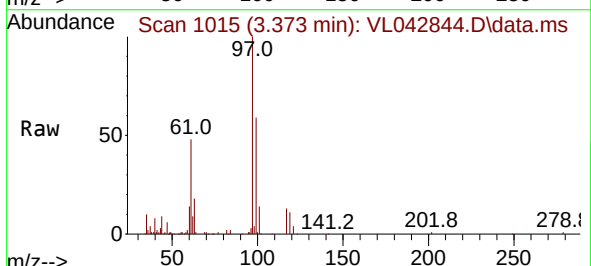
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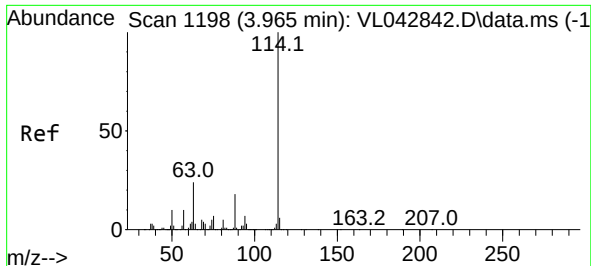
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#32
 1,1,1-Trichloroethane
 Concen: 0.961 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion: 97 Resp: 27607
 Ion Ratio Lower Upper
 97 100
 99 65.8 51.0 76.6
 61 50.2 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 40030

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

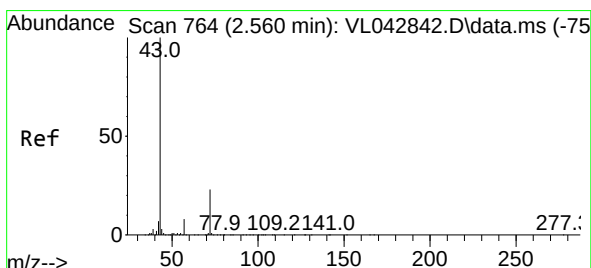
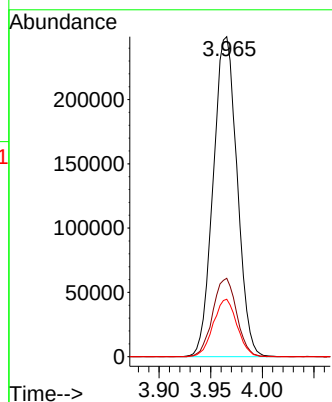
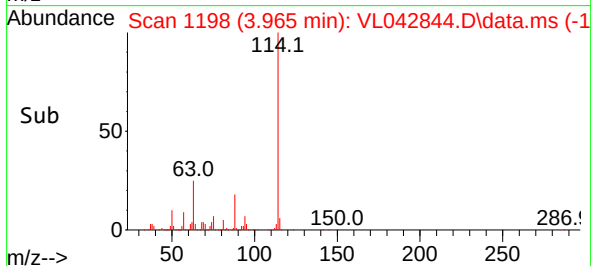
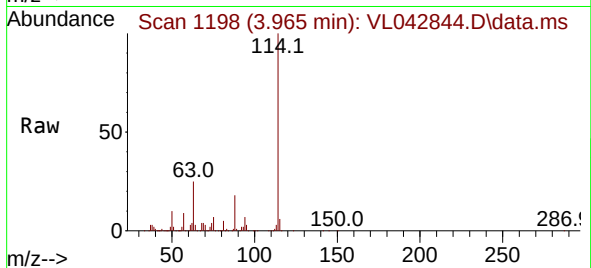
88 17.9 14.4 21.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#34

2-Butanone

Concen: 1.040 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.003 min

Lab File: VL042844.D

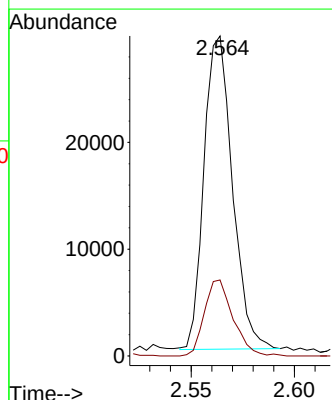
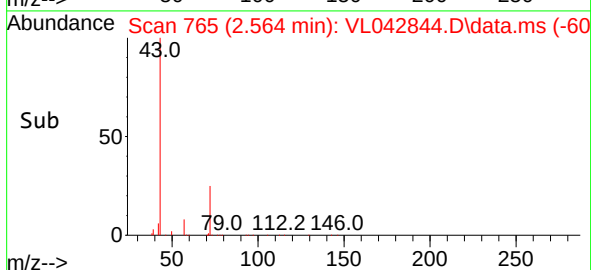
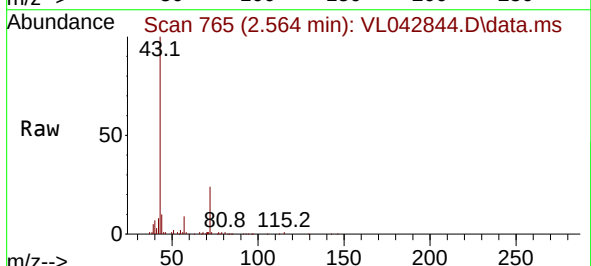
Acq: 13 Aug 2025 09:41

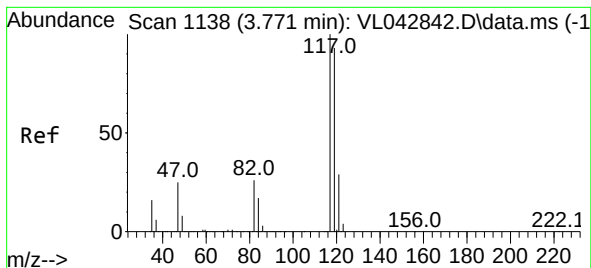
Tgt Ion: 43 Resp: 28105

Ion Ratio Lower Upper

43 100

72 24.4 18.6 28.0





#35

Carbon Tetrachloride

Concen: 1.015 ppbv

RT: 3.768 min Scan# 1137

Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:117 Resp: 2800

Ion Ratio Lower Upper

117 100

119 100.5 74.7 112.1

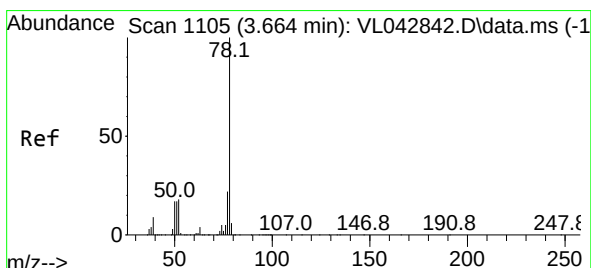
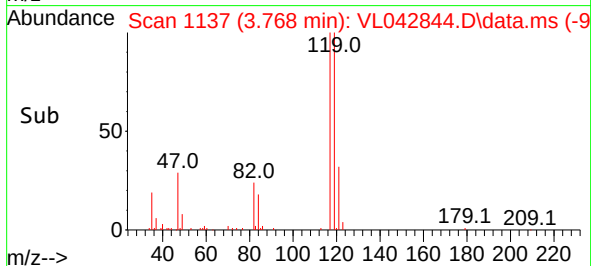
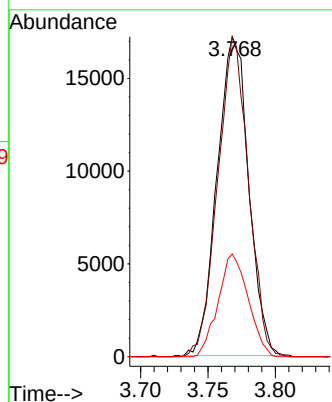
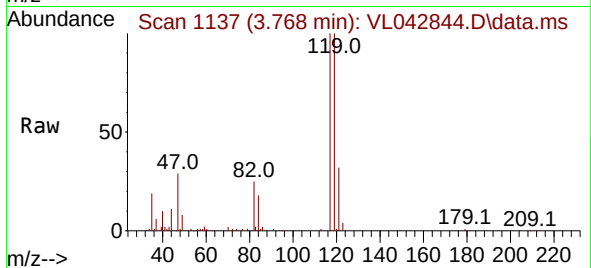
121 32.3 23.2 34.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#36

Benzene

Concen: 1.021 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

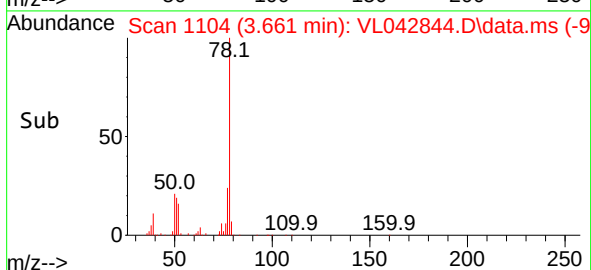
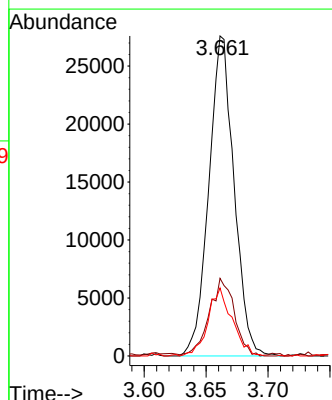
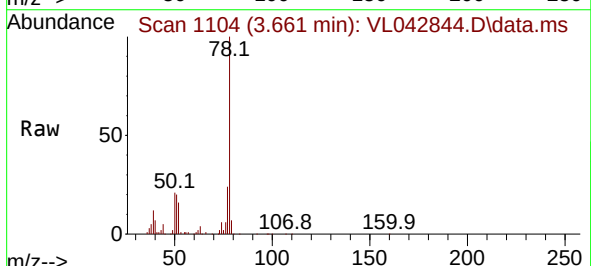
Tgt Ion: 78 Resp: 39137

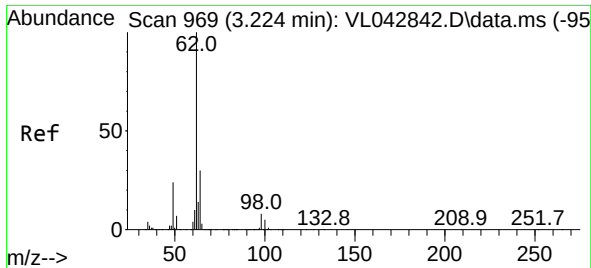
Ion Ratio Lower Upper

78 100

77 23.8 17.7 26.5

50 21.1 13.9 20.9#





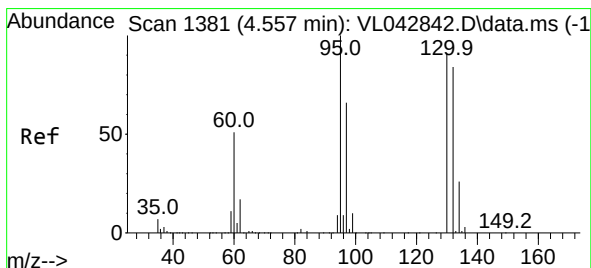
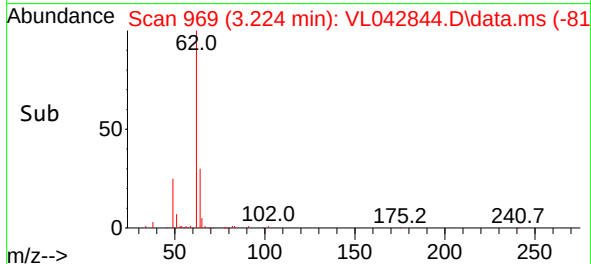
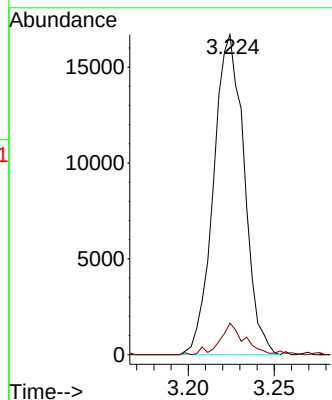
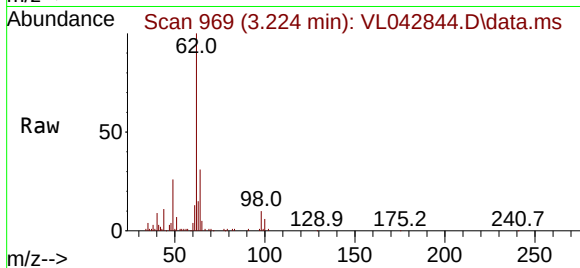
#37
1,2-Dichloroethane
Concen: 1.031 ppbv
RT: 3.224 min Scan# 90
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 2064
Ion Ratio Lower Upper
62 100
98 8.4 5.9 8.9

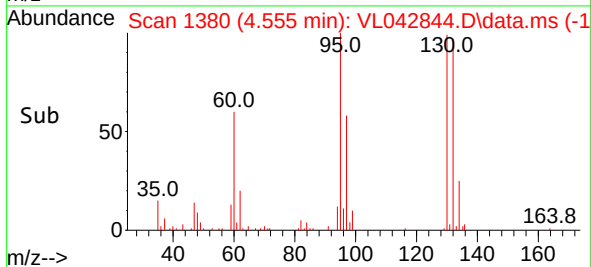
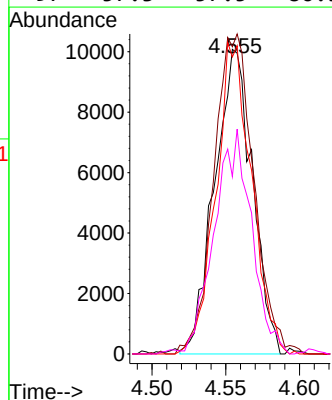
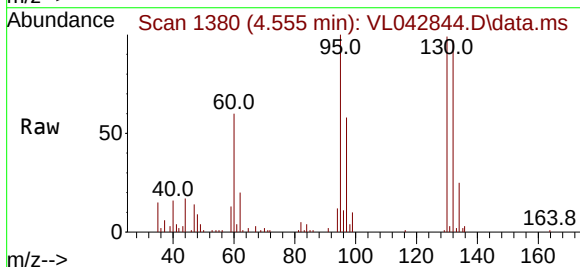
Manual Integrations
APPROVED

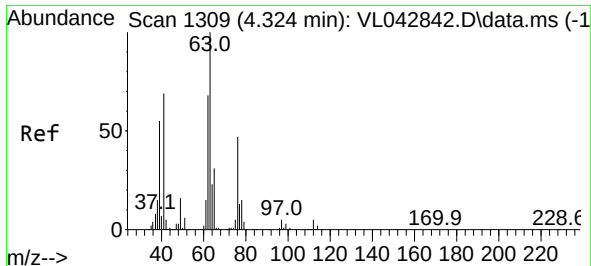
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#38
Trichloroethene
Concen: 1.024 ppbv
RT: 4.555 min Scan# 1380
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

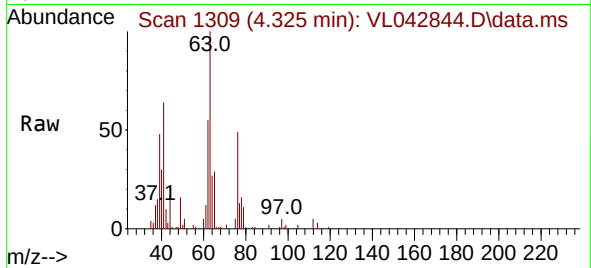
Tgt Ion:130 Resp: 17921
Ion Ratio Lower Upper
130 100
95 97.9 87.6 131.4
132 96.6 73.8 110.8
97 57.3 57.5 86.3#





#39
 1,2-Dichloropropane
 Concen: 1.042 ppbv m
 RT: 4.325 min Scan# 1309
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

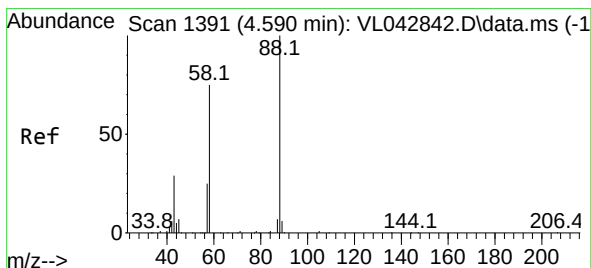
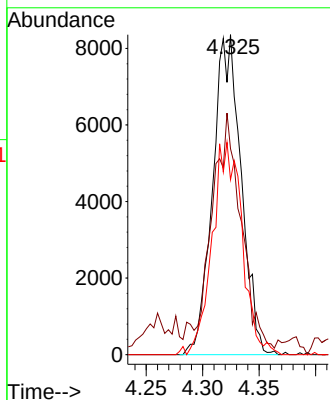
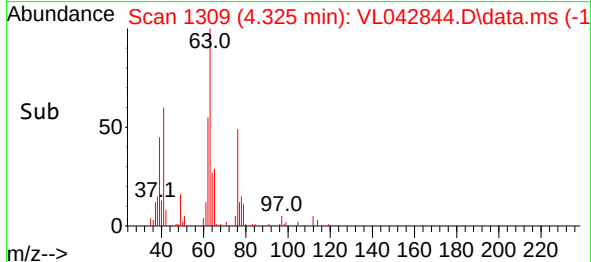
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



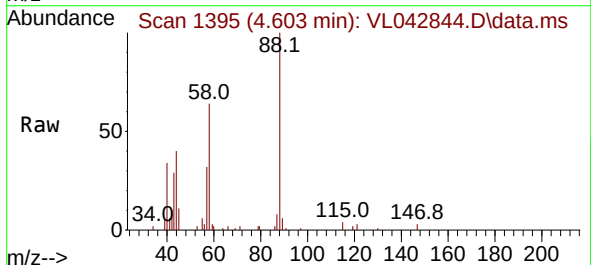
Tgt Ion: 63 Resp: 1459
 Ion Ratio Lower Upper
 63 100
 41 64.4 55.0 82.4
 62 54.7 54.4 81.6

Manual Integrations
 APPROVED

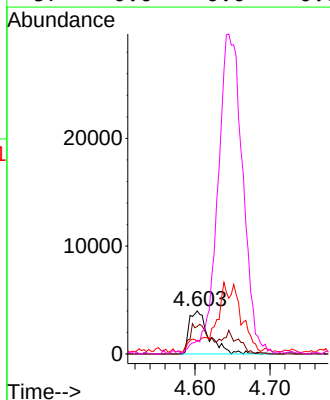
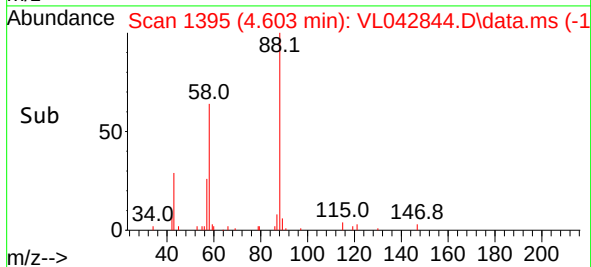
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

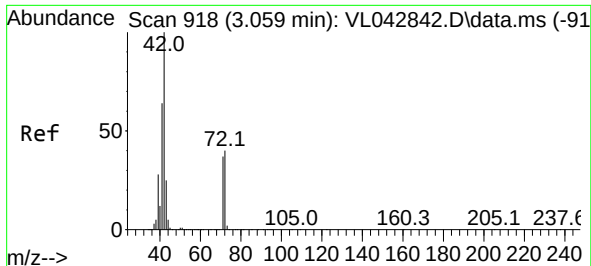


#40
 1,4-Dioxane
 Concen: 1.127 ppbv m
 RT: 4.603 min Scan# 1395
 Delta R.T. 0.013 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41



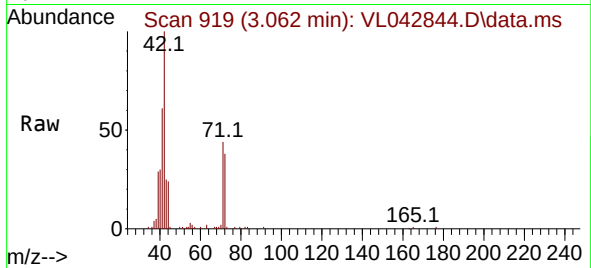
Tgt Ion: 88 Resp: 7386
 Ion Ratio Lower Upper
 88 100
 58 0.0 53.8 80.6#
 43 0.0 22.8 34.2#
 57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 1.032 ppbv
RT: 3.062 min Scan# 918
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

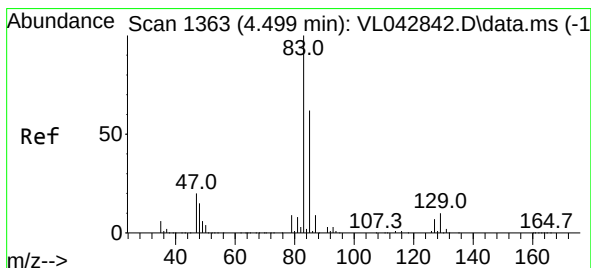
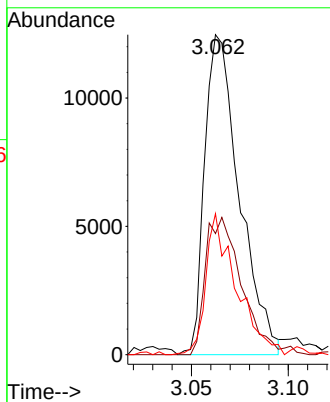
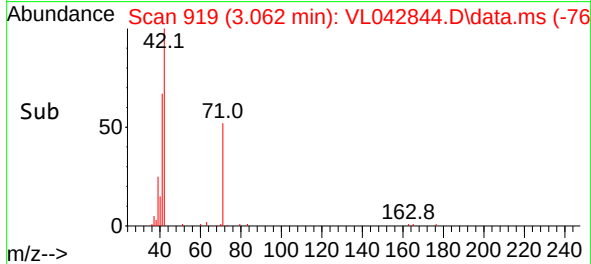
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 42 Resp: 1555
Ion Ratio Lower Upper
42 100
72 45.4 32.6 48.8
71 40.1 30.0 45.0

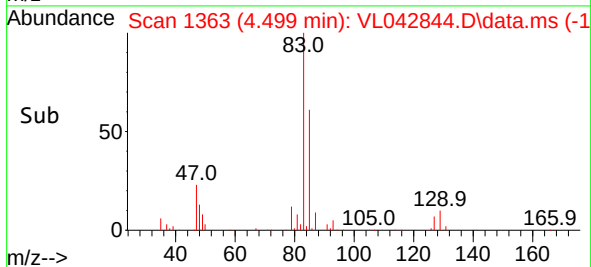
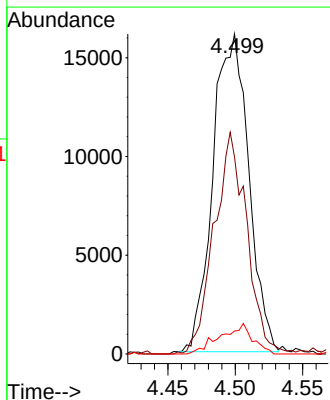
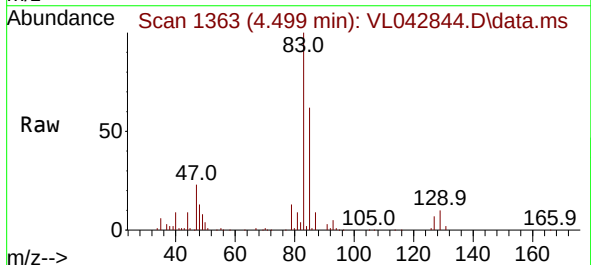
Manual Integrations
APPROVED

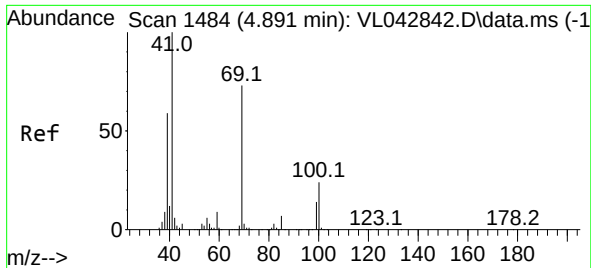
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#42
Bromodichloromethane
Concen: 0.995 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 83 Resp: 29683
Ion Ratio Lower Upper
83 100
85 61.3 49.8 74.8
127 7.2 5.8 8.6





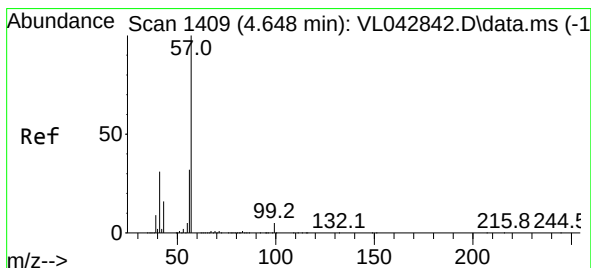
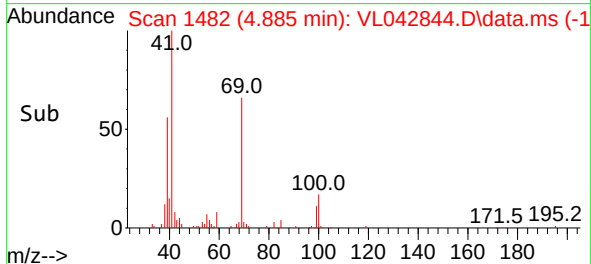
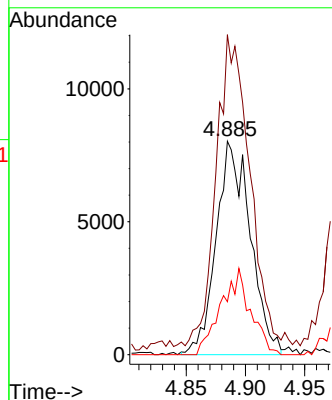
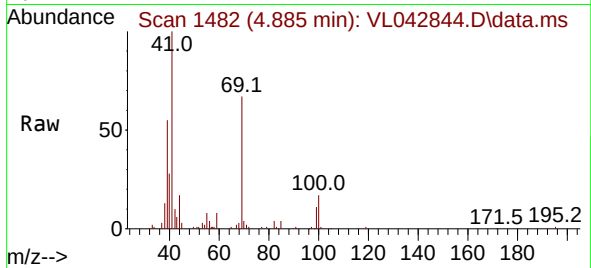
#43
Methyl Methacrylate
Concen: 1.022 ppbv m
RT: 4.885 min Scan# 1482
Delta R.T. -0.006 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 69 Resp: 1607
Ion Ratio Lower Upper
69 100
41 0.0 114.6 172.0
100 35.1 30.2 45.4

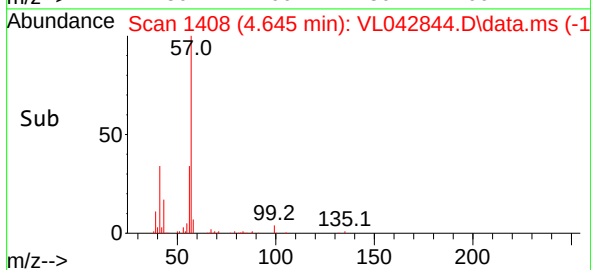
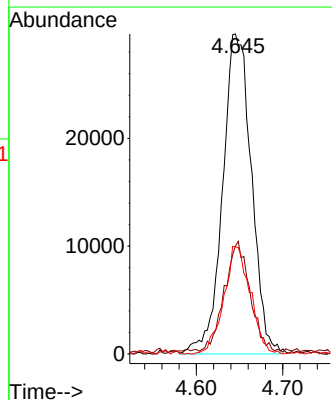
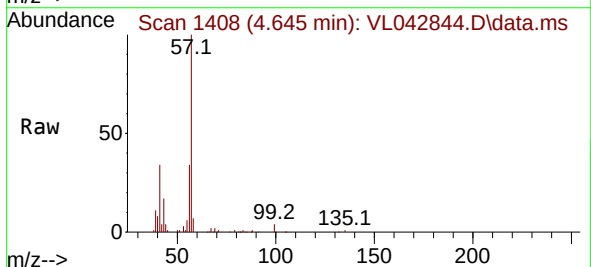
Manual Integrations
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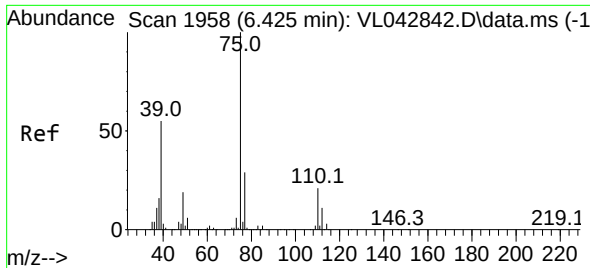
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#44
2,2,4-Trimethylpentane
Concen: 1.069 ppbv m
RT: 4.645 min Scan# 1408
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

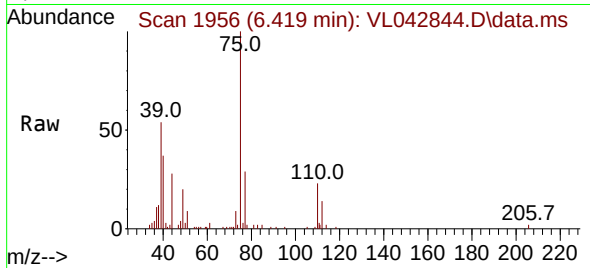
Tgt Ion: 57 Resp: 68813
Ion Ratio Lower Upper
57 100
41 32.7 24.8 37.2
56 31.3 25.5 38.3





#45
 t-1,3-Dichloropropene
 Concen: 1.042 ppbv m
 RT: 6.419 min Scan# 1958
 Delta R.T. -0.006 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

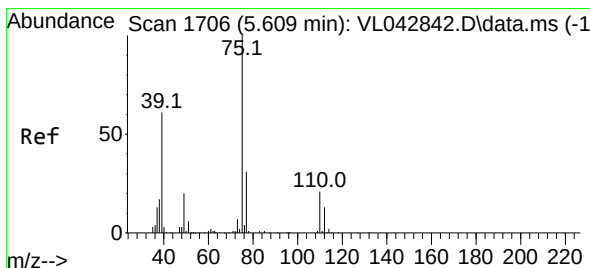
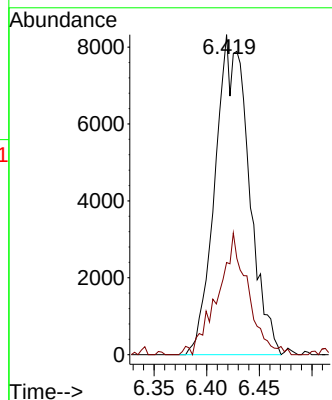
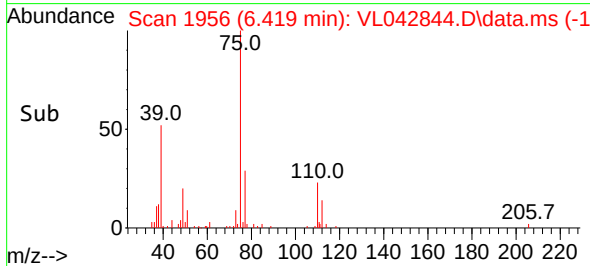
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 75 Resp: 18580
 Ion Ratio Lower Upper
 75 100
 77 28.8 23.8 35.6

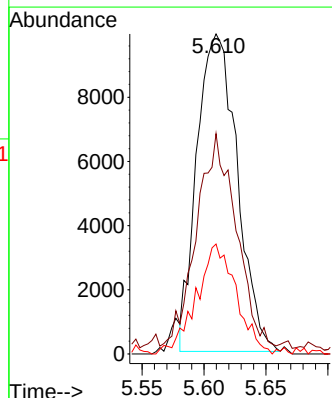
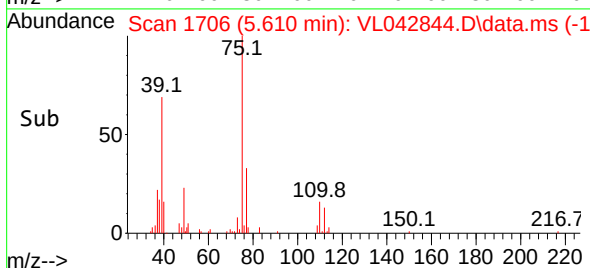
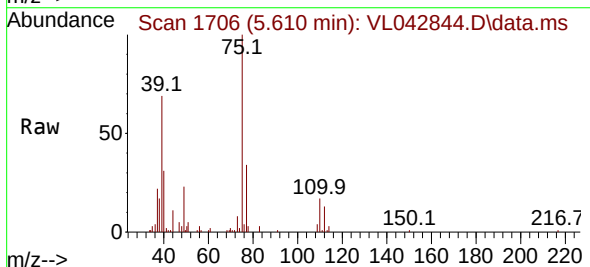
Manual Integrations
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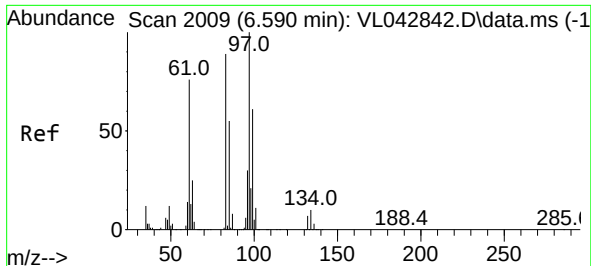
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#46
 cis-1,3-Dichloropropene
 Concen: 0.999 ppbv
 RT: 5.610 min Scan# 1706
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion: 75 Resp: 22372
 Ion Ratio Lower Upper
 75 100
 39 66.4 48.9 73.3
 77 33.8 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 1.032 ppbv

RT: 6.597 min Scan# 2009

Delta R.T. 0.007 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

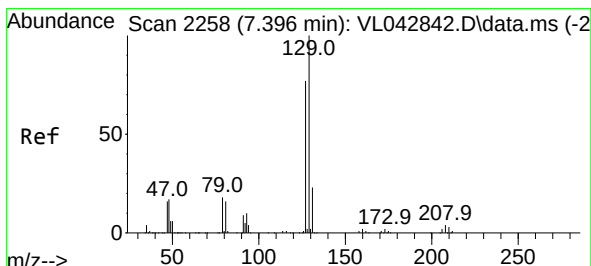
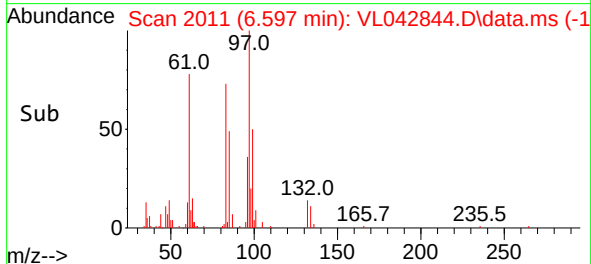
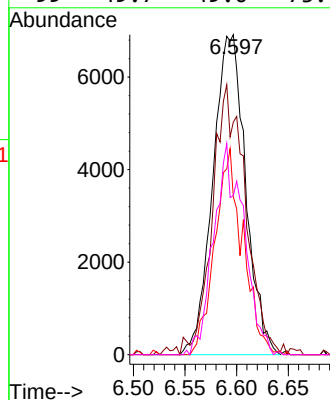
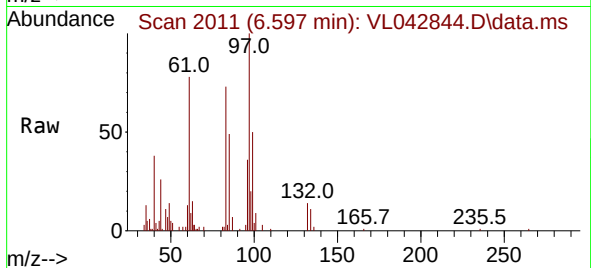
Tgt Ion: 97	Resp: 1529
Ion Ratio	Lower Upper
97 100	
83 72.7	71.0 106.4
85 49.4	43.6 65.4
99 49.7	49.0 73.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#48

Dibromochloromethane

Concen: 1.009 ppbv

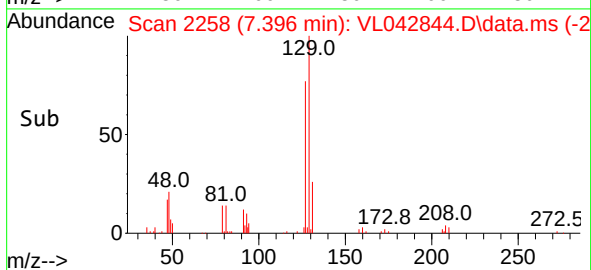
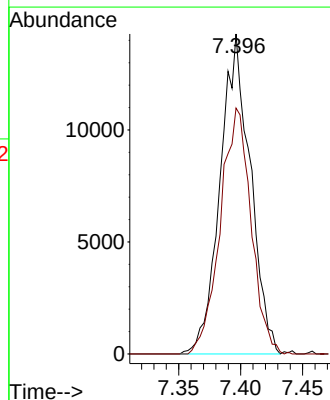
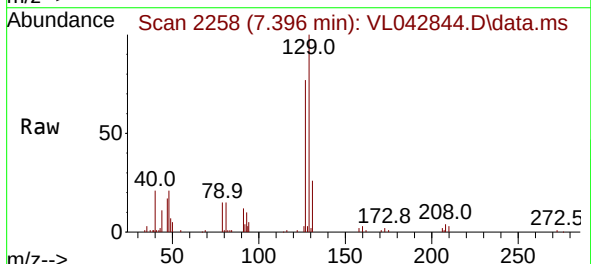
RT: 7.396 min Scan# 2258

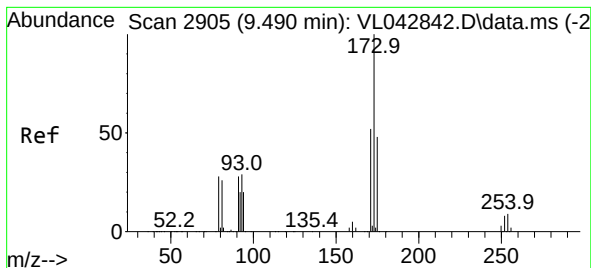
Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Tgt Ion:129	Resp: 24214
Ion Ratio	Lower Upper
129 100	
127 78.2	39.4 118.2





#49

Bromoform

Concen: 1.040 ppbv

RT: 9.490 min Scan# 2905

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

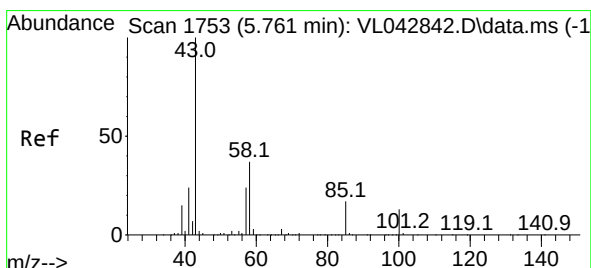
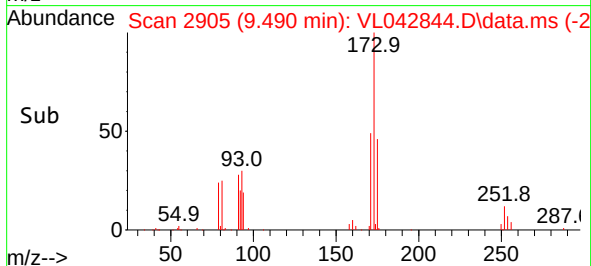
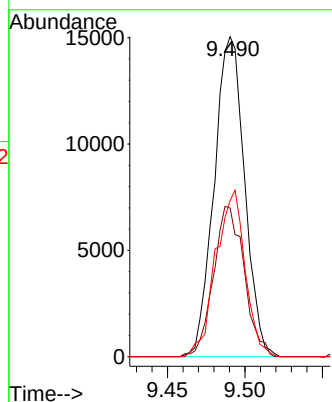
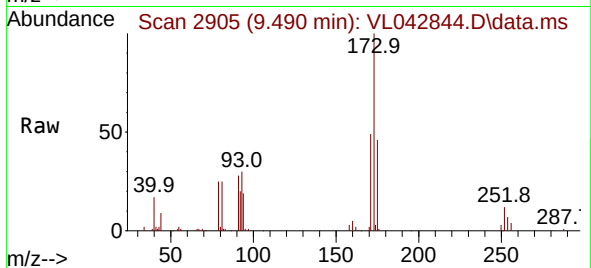
VSTDIC001

Tgt Ion:	173	Resp:	20579
Ion	Ratio	Lower	Upper
173	100		
175	47.3	39.2	58.8
171	50.3	41.3	61.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#50

4-Methyl-2-Pentanone

Concen: 1.001 ppbv

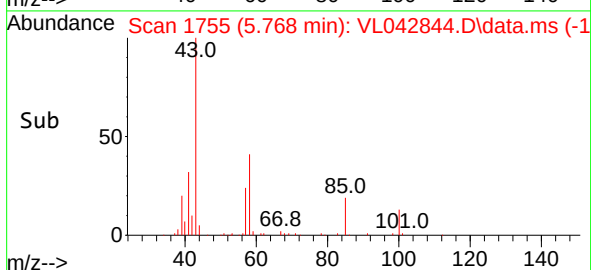
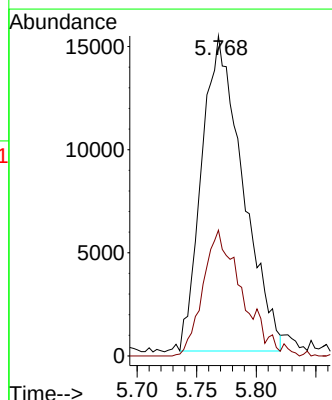
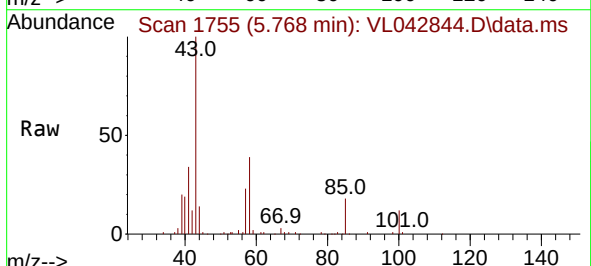
RT: 5.768 min Scan# 1755

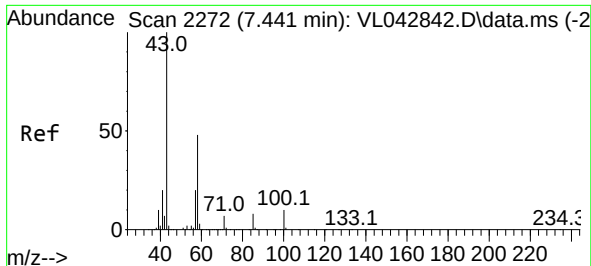
Delta R.T. 0.007 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

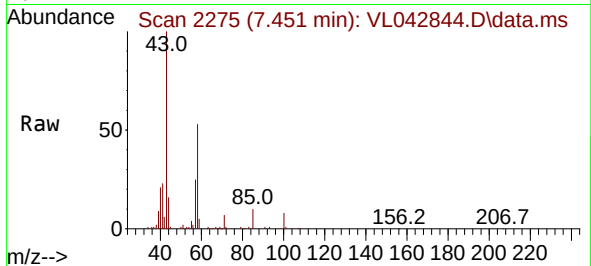
Tgt Ion:	43	Resp:	36710
Ion	Ratio	Lower	Upper
43	100		
58	38.3	29.8	44.8





#51
2-Hexanone
Concen: 1.026 ppbv
RT: 7.451 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

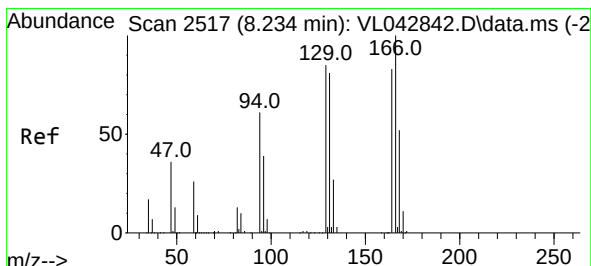
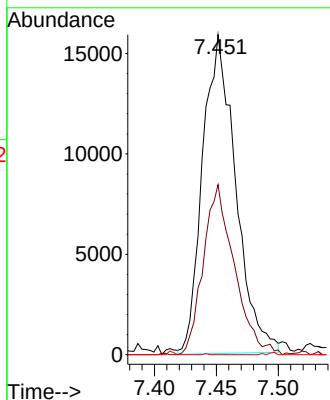
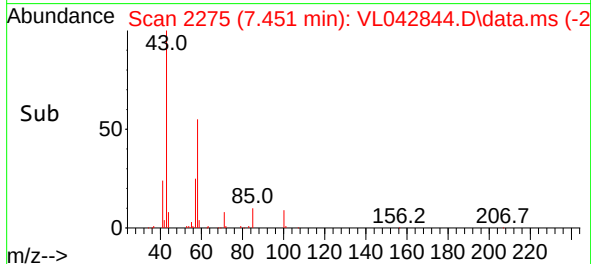
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 43 Resp: 2948
Ion Ratio Lower Upper
43 100
58 50.6 41.0 61.6
98 0.2 0.1 0.1

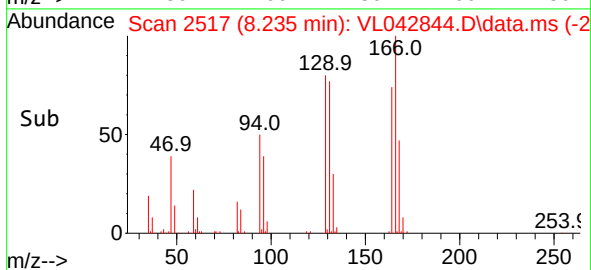
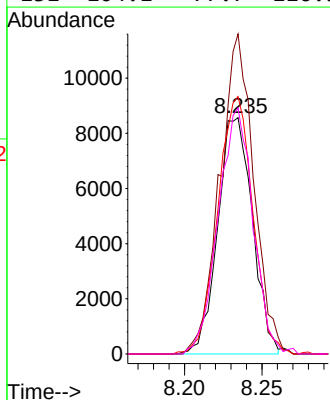
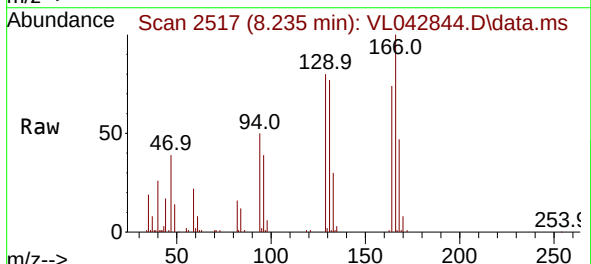
Manual Integrations
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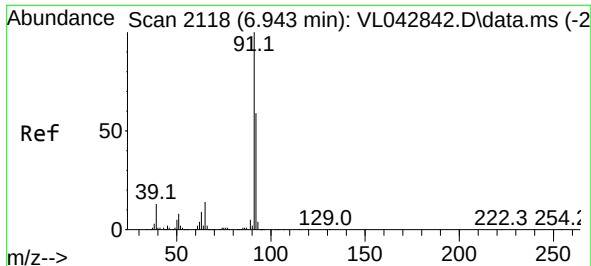
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#52
Tetrachloroethene
Concen: 0.960 ppbv
RT: 8.235 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

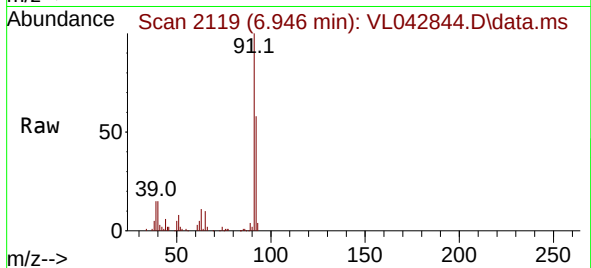
Tgt Ion:164 Resp: 13322
Ion Ratio Lower Upper
164 100
166 135.4 96.5 144.7
129 110.5 81.8 122.6
131 104.1 77.7 116.5





#53
Toluene
Concen: 1.036 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

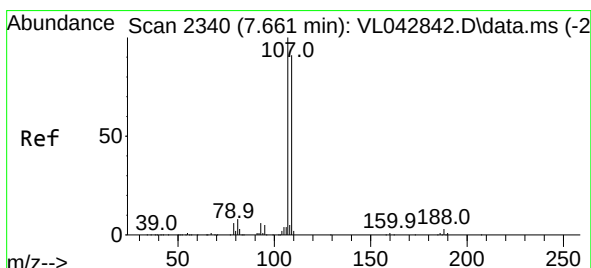
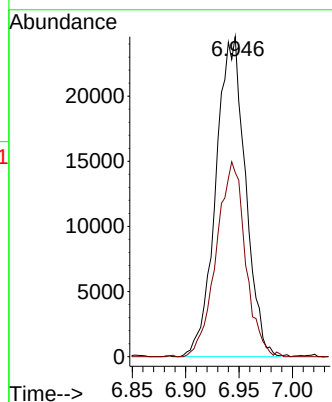
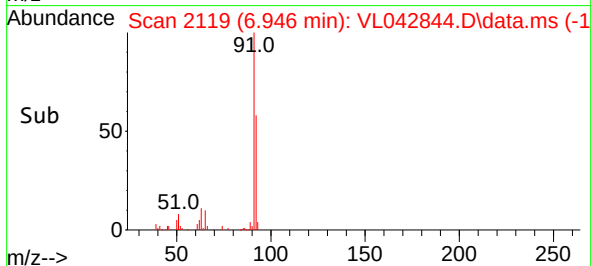
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



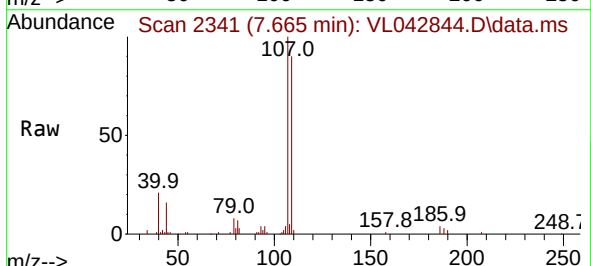
Tgt Ion: 91 Resp: 47250
Ion Ratio Lower Upper
91 100
92 60.1 47.8 71.6

Manual Integrations
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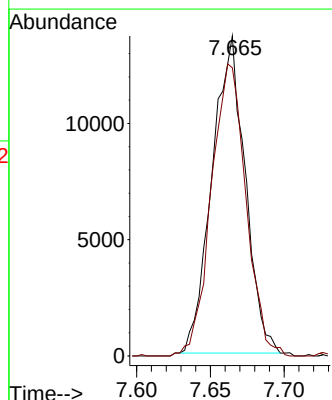
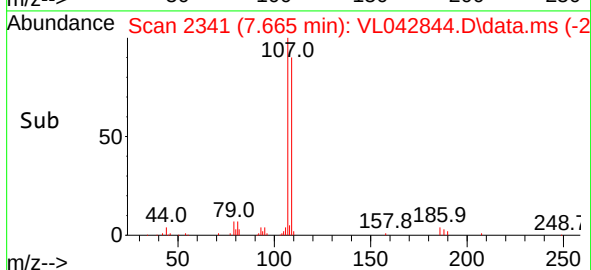
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

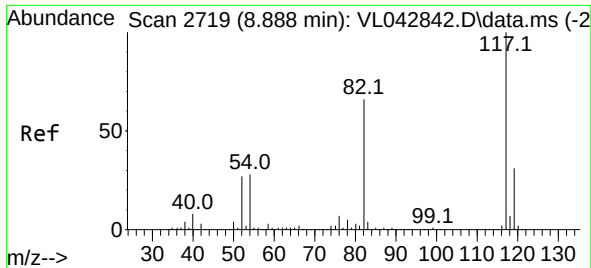


#54
1,2-Dibromoethane
Concen: 0.982 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



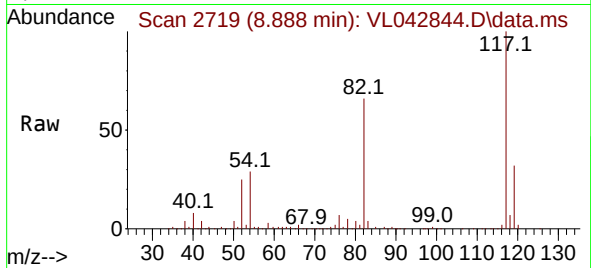
Tgt Ion:107 Resp: 21280
Ion Ratio Lower Upper
107 100
109 89.9 72.5 108.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

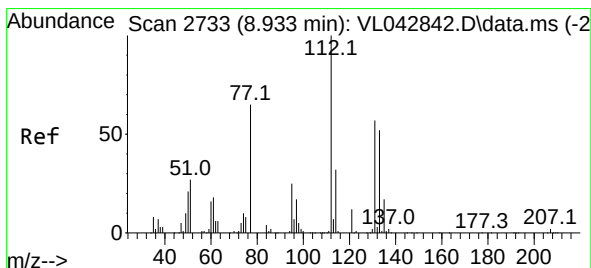
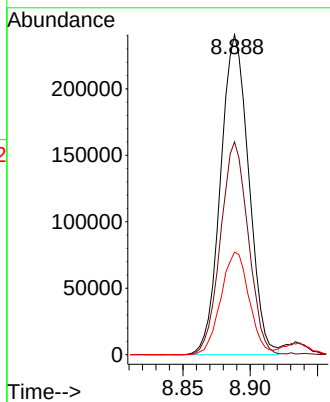
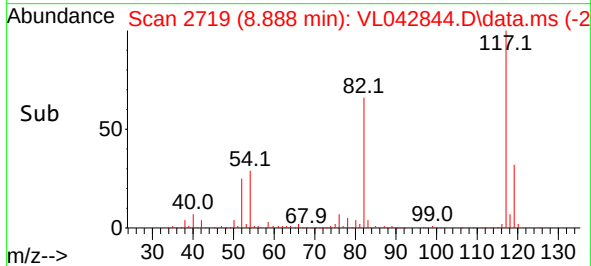
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion:117 Resp: 34957
Ion Ratio Lower Upper
117 100
82 65.9 54.6 81.8
119 32.9 25.9 38.9

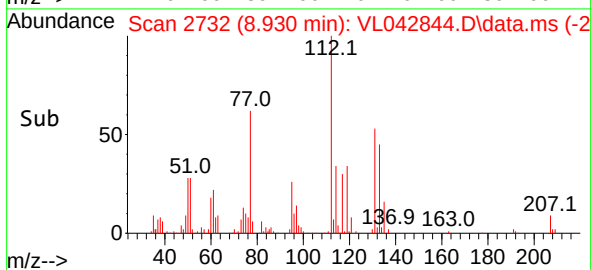
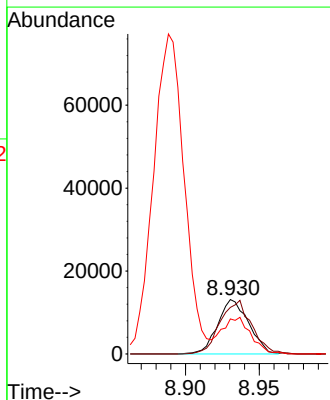
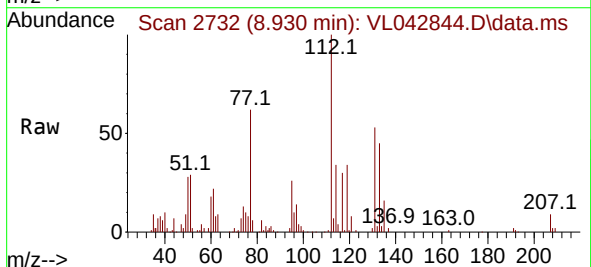
Manual Integrations
APPROVED

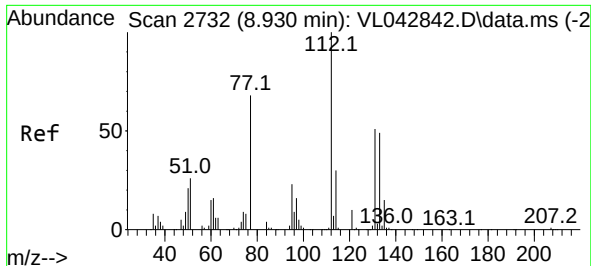
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 1.061 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:131 Resp: 19176
Ion Ratio Lower Upper
131 100
133 99.8 77.4 116.0
119 59.0 51.2 76.8





#57

Chlorobenzene

Concen: 1.041 ppbv

RT: 8.930 min Scan# 2732

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

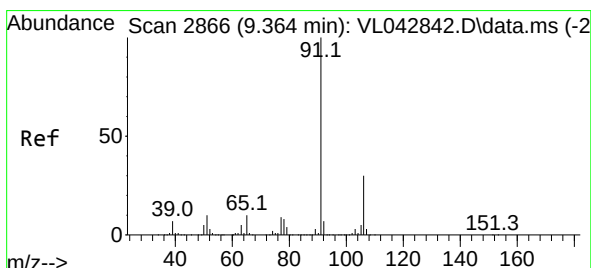
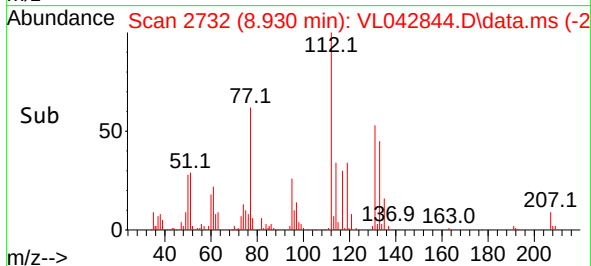
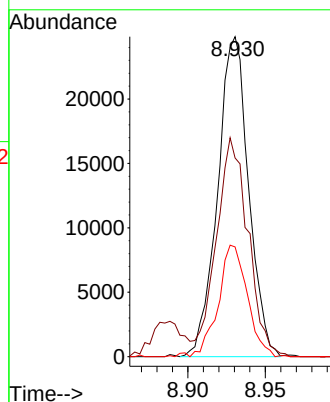
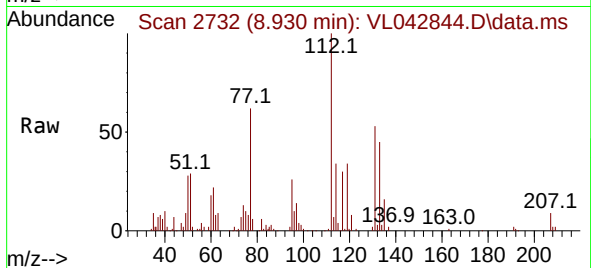
VSTDIC001

Tgt Ion:	112	Resp:	3461
Ion Ratio	Lower	Upper	
112	100		
77	61.0	55.5	83.3
114	34.0	27.2	33.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#58

Ethyl Benzene

Concen: 1.057 ppbv

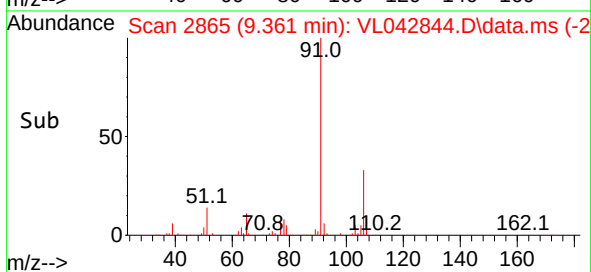
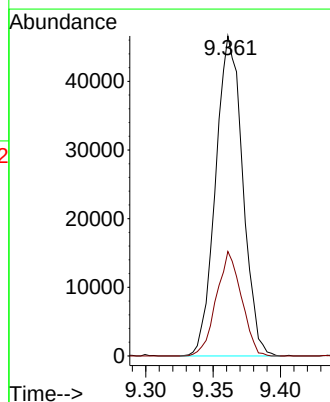
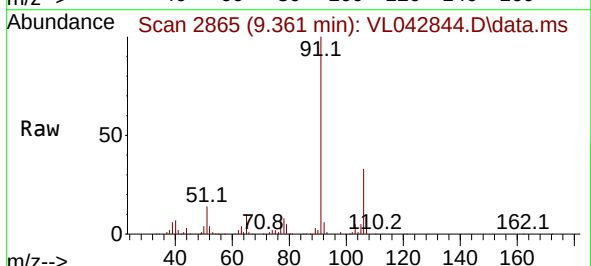
RT: 9.361 min Scan# 2865

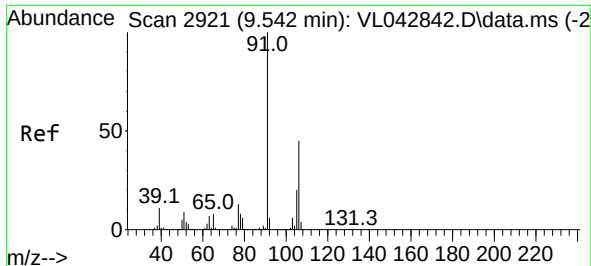
Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Tgt Ion:	91	Resp:	65223
Ion Ratio	Lower	Upper	
91	100		
106	32.7	23.9	35.9





#59

m/p-Xylene

Concen: 2.098 ppbv m

RT: 9.558 min Scan# 2921

Delta R.T. 0.016 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 101634

Ion Ratio Lower Upper

91 100

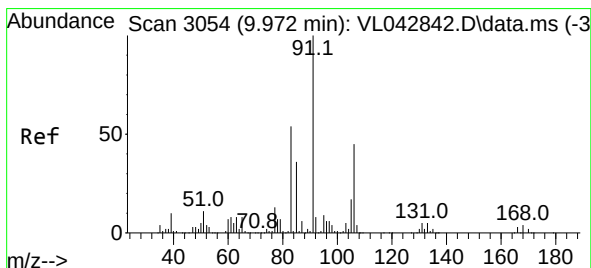
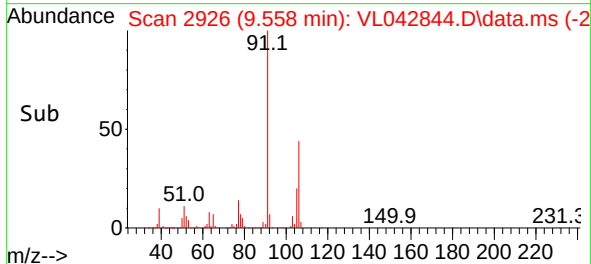
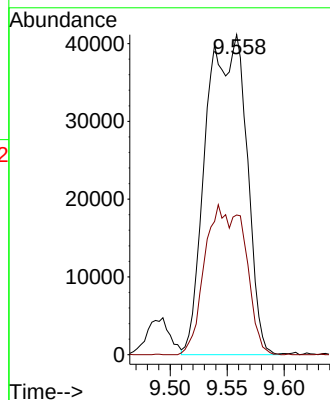
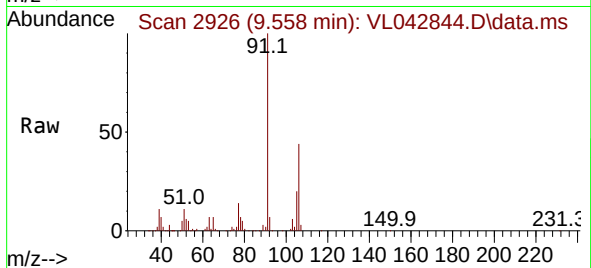
106 46.6 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#60

o-Xylene

Concen: 1.058 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.003 min

Lab File: VL042844.D

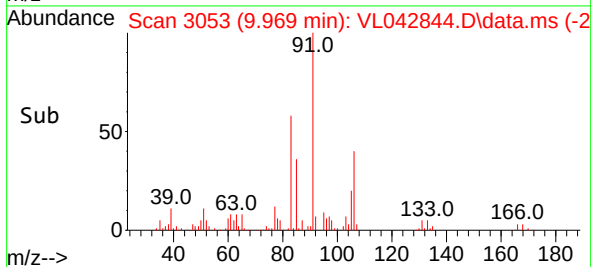
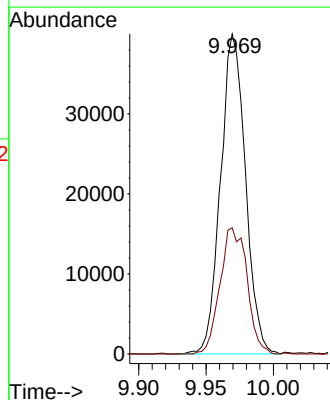
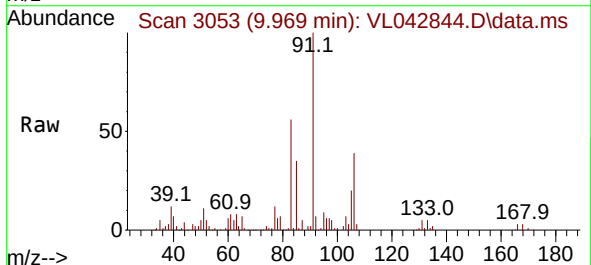
Acq: 13 Aug 2025 09:41

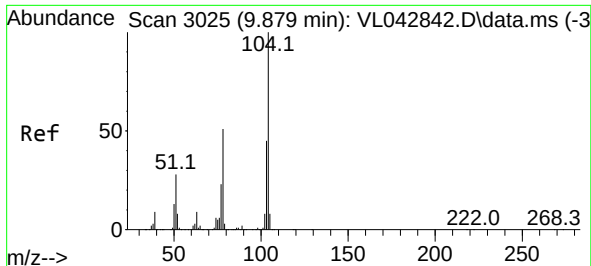
Tgt Ion: 91 Resp: 51445

Ion Ratio Lower Upper

91 100

106 42.8 21.8 65.4





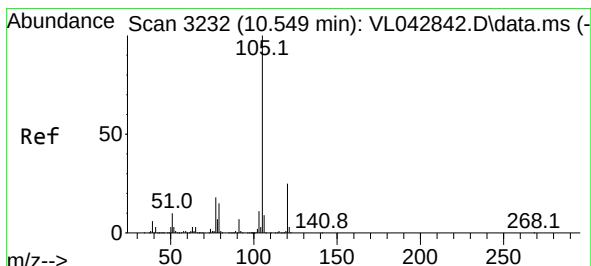
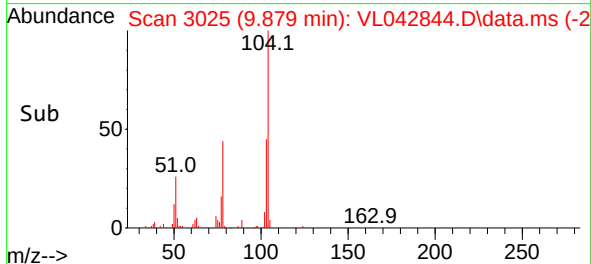
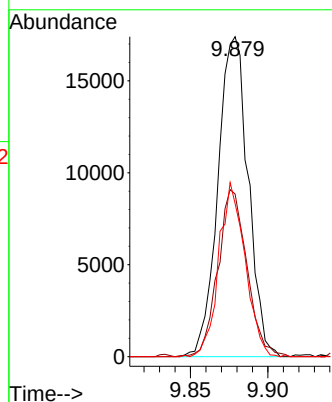
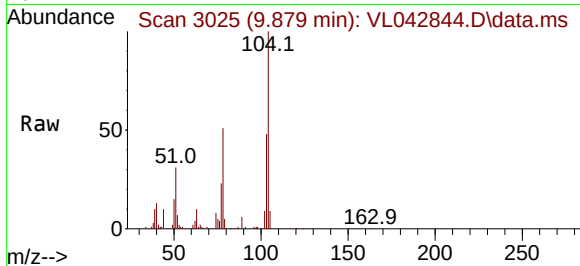
#61
Styrene
Concen: 1.038 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:104 Resp: 23660
Ion Ratio Lower Upper
104 100
78 50.4 40.6 61.0
103 47.3 37.7 56.5

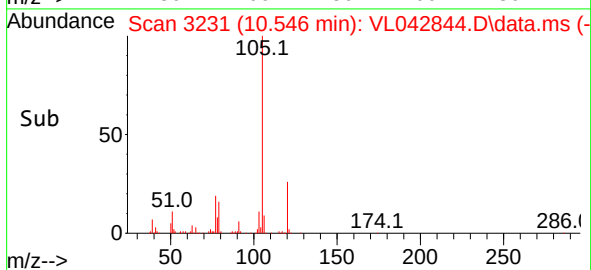
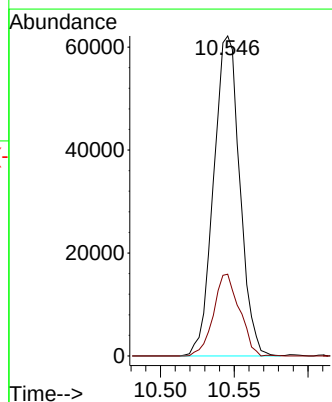
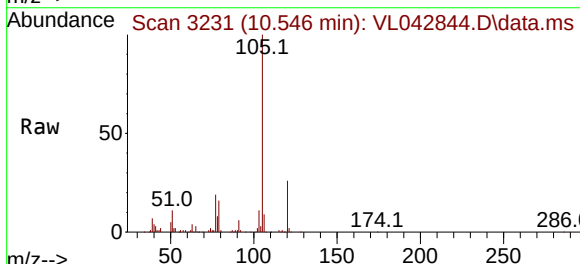
Manual Integrations
APPROVED

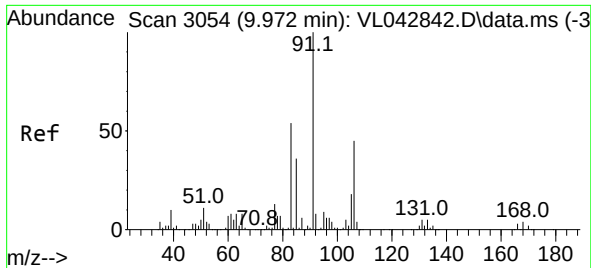
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#62
Isopropylbenzene
Concen: 1.079 ppbv
RT: 10.546 min Scan# 3231
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

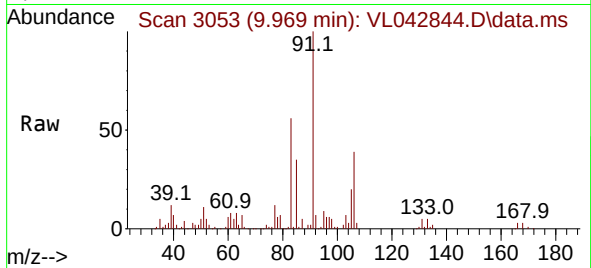
Tgt Ion:105 Resp: 76708
Ion Ratio Lower Upper
105 100
120 25.4 20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 1.032 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

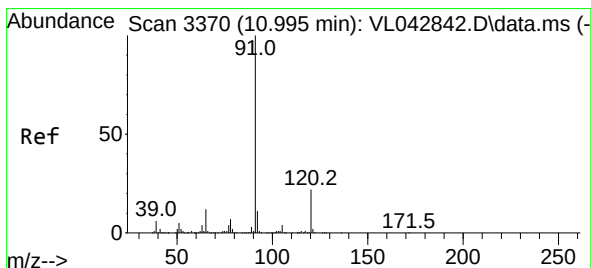
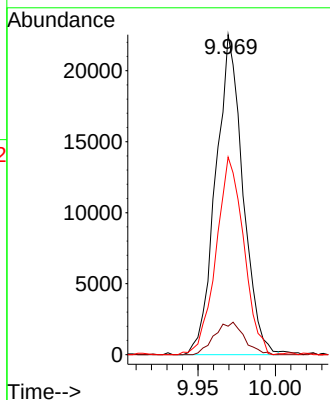
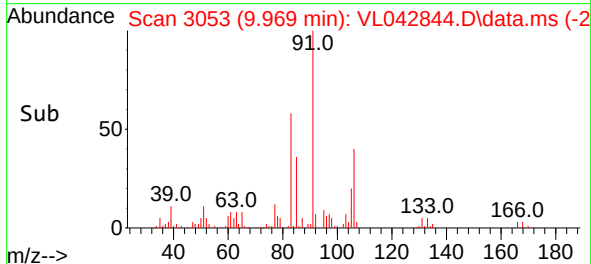
Instrument : MSVOA_L
ClientSampleId : VSTDIC001



Tgt Ion: 83 Resp: 27410
Ion Ratio Lower Upper
83 100
131 11.2 4.8 14.3
85 63.5 32.3 96.8

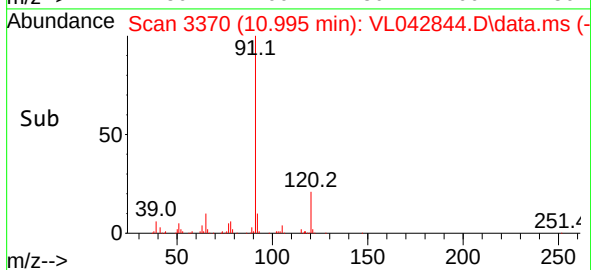
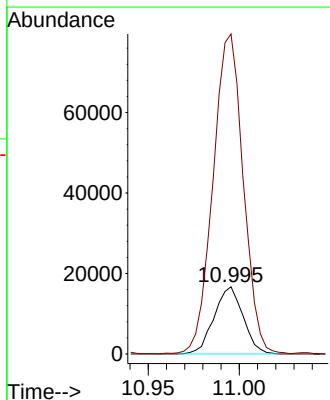
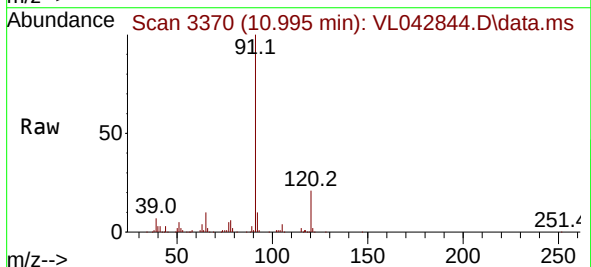
Manual Integrations
APPROVED

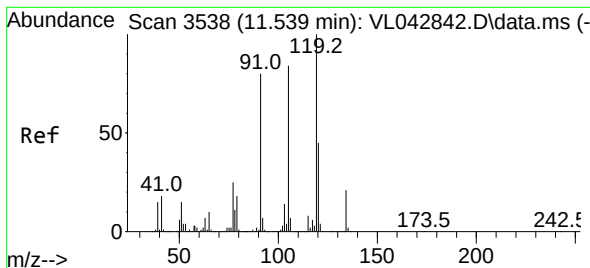
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#64
n-propylbenzene
Concen: 1.018 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

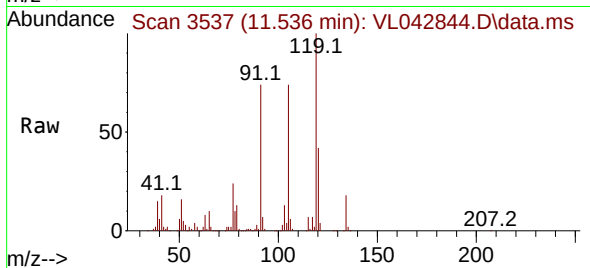
Tgt Ion:120 Resp: 18462
Ion Ratio Lower Upper
120 100
91 496.0 375.8 563.6





#65
tert-Butylbenzene
Concen: 1.111 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

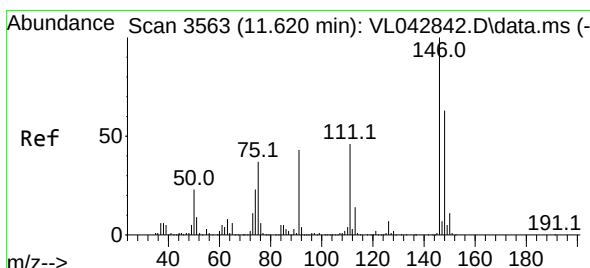
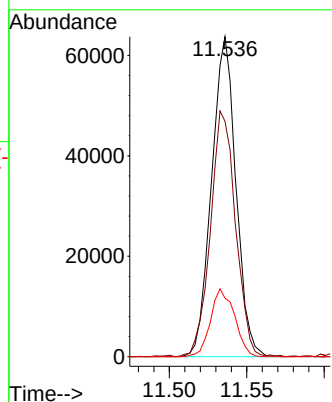
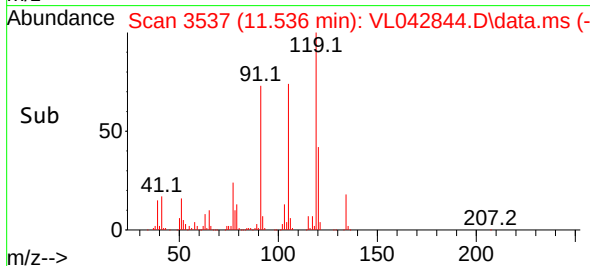
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



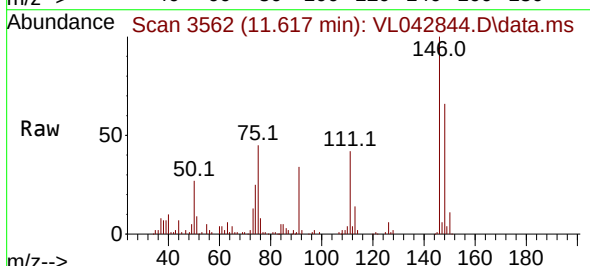
Tgt Ion: 119 Resp: 6961
Ion Ratio Lower Upper
119 100
91 79.3 63.9 95.9
134 20.9 17.0 25.4

Manual Integrations
APPROVED

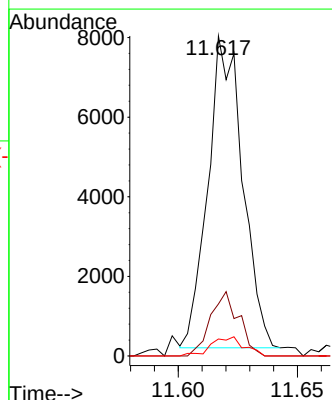
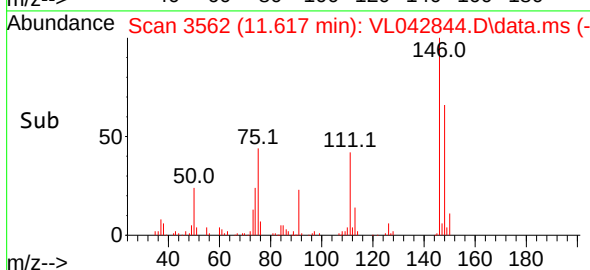
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

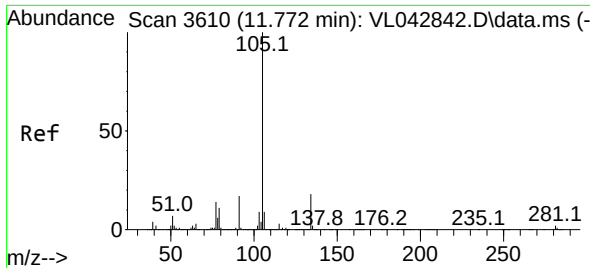


#66
Benzyl Chloride
Concen: 0.993 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



Tgt Ion: 91 Resp: 7900
Ion Ratio Lower Upper
91 100
126 16.9 14.2 21.4
128 5.8 5.0 7.6





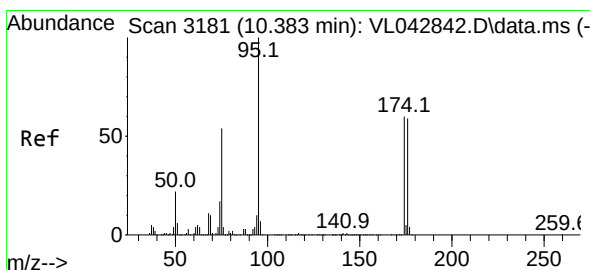
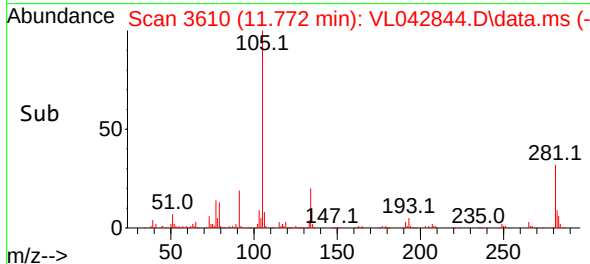
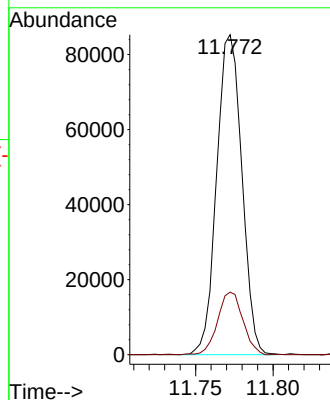
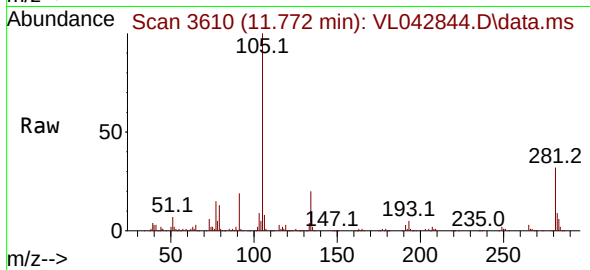
#67
 sec-Butylbenzene
 Concen: 1.095 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

Tgt Ion:105 Resp: 96288
 Ion Ratio Lower Upper
 105 100
 134 19.7 14.9 22.3

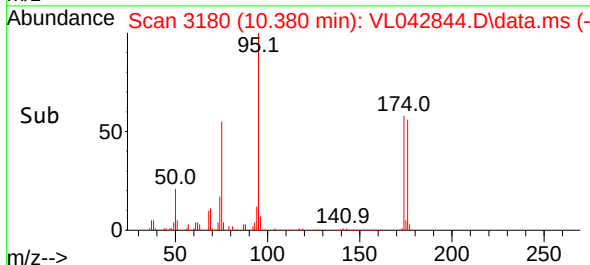
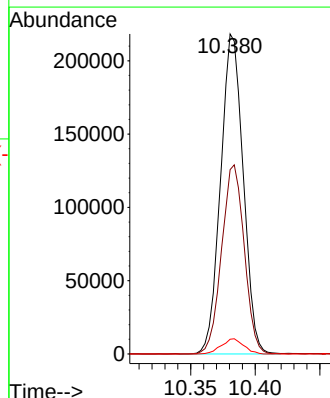
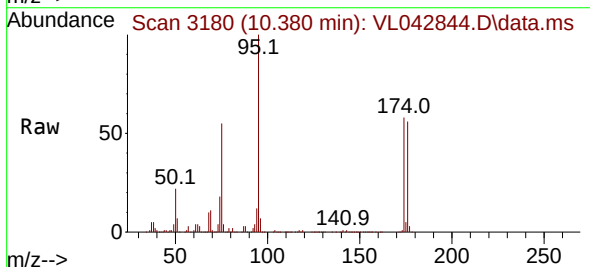
Manual Integrations
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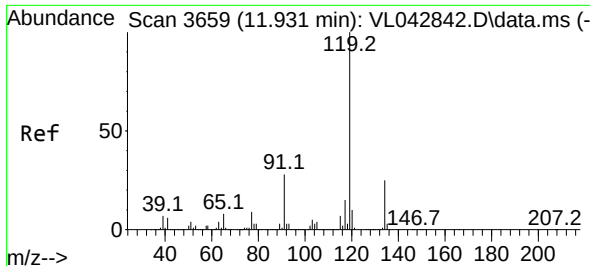
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.135 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

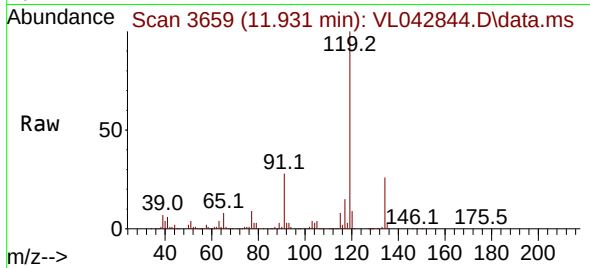
Tgt Ion: 95 Resp: 265708
 Ion Ratio Lower Upper
 95 100
 174 59.1 48.4 72.6
 175 4.7 3.8 5.8





#69
p-Isopropyltoluene
Concen: 1.098 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

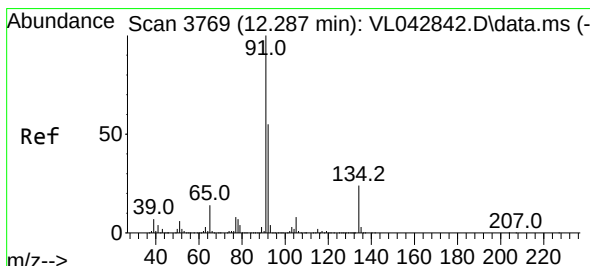
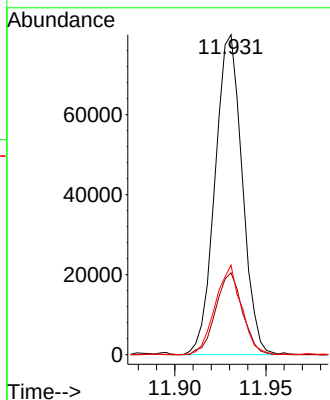
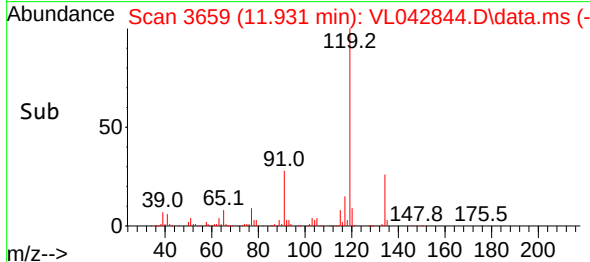
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



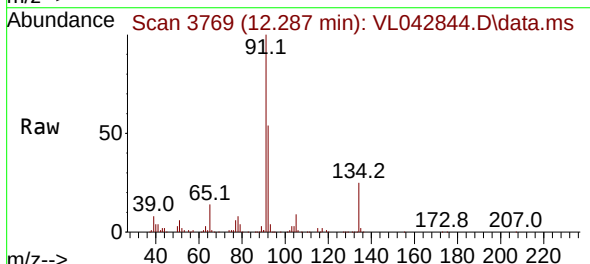
Tgt Ion:119 Resp: 82934
Ion Ratio Lower Upper
119 100
134 25.3 20.6 30.8
91 27.2 22.6 34.0

Manual Integrations
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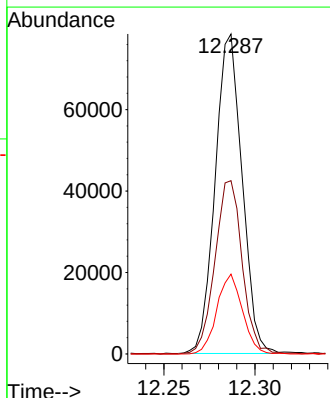
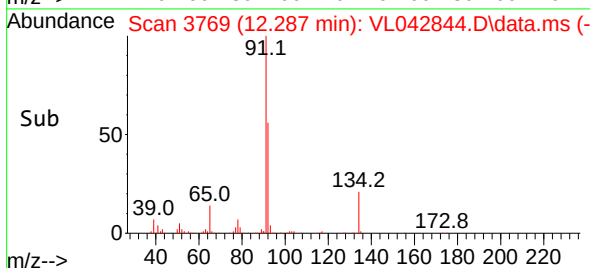
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

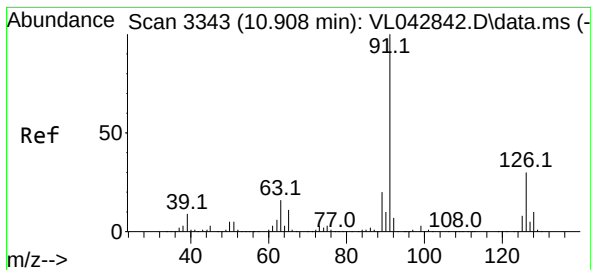


#70
n-Butylbenzene
Concen: 1.075 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



Tgt Ion: 91 Resp: 80511
Ion Ratio Lower Upper
91 100
92 55.2 44.6 66.8
134 23.7 19.0 28.4





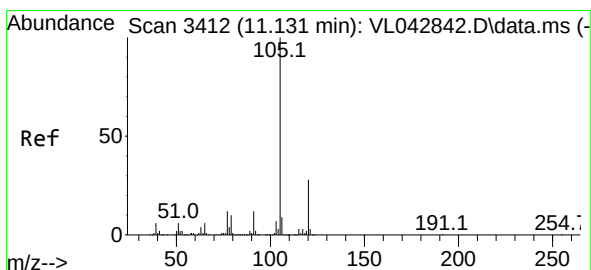
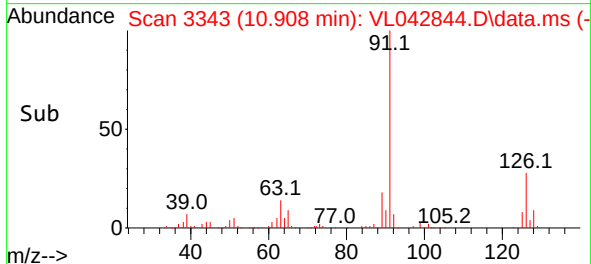
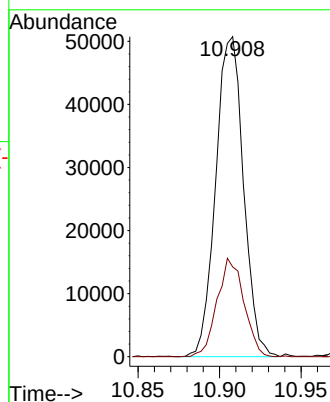
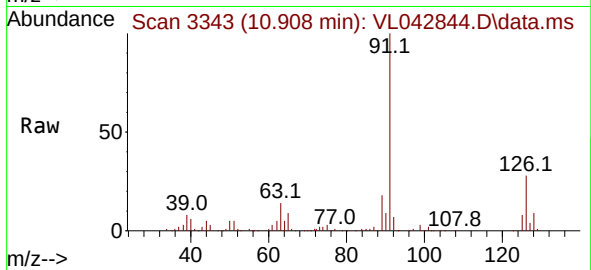
#71
2-Chlorotoluene
Concen: 1.089 ppbv
RT: 10.908 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 6008
Ion Ratio Lower Upper
91 100
126 29.7 12.0 47.8

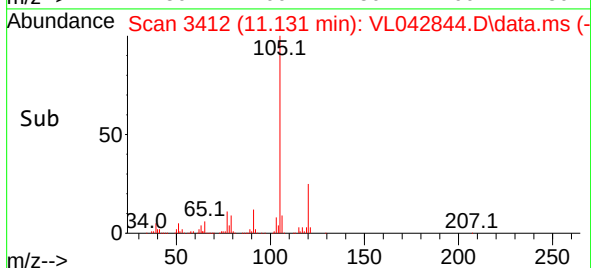
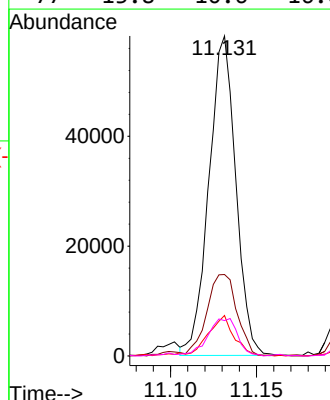
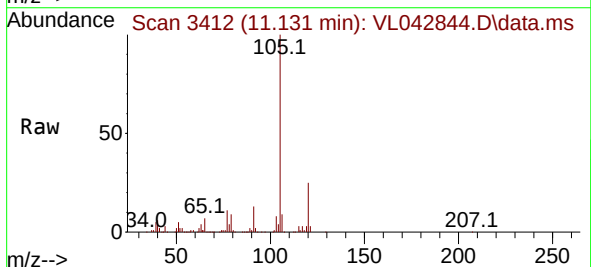
Manual Integrations
APPROVED

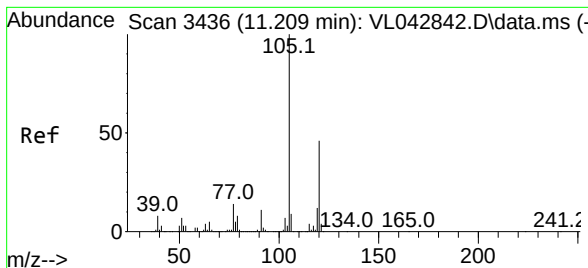
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#72
4-Ethyltoluene
Concen: 1.071 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

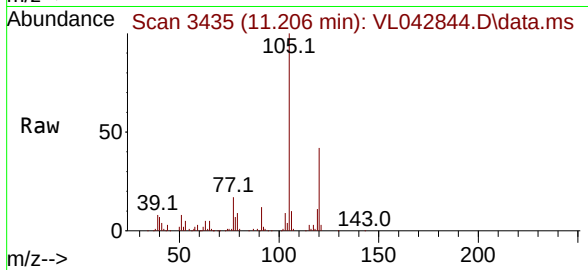
Tgt Ion:105 Resp: 63147
Ion Ratio Lower Upper
105 100
120 29.9 23.4 35.2
91 13.0 9.8 14.6
77 13.8 10.6 16.0





#73
 1,3,5-Trimethylbenzene
 Concen: 1.070 ppbv
 RT: 11.206 min Scan# 3436
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

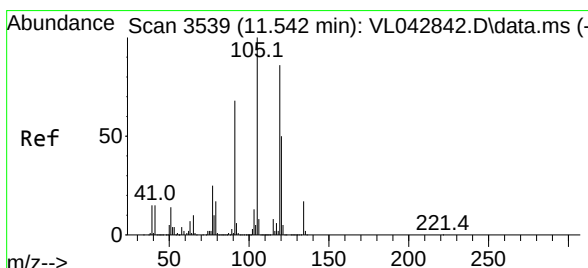
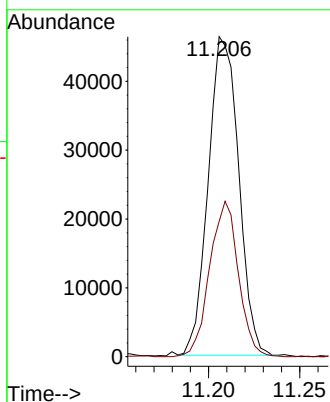
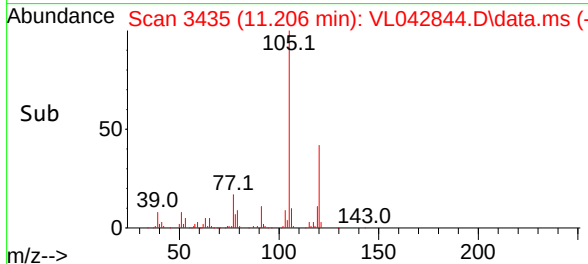
Instrument : MSVOA_L
 ClientSampleId : VSTDIC001



Tgt Ion:105 Resp: 53670
 Ion Ratio Lower Upper
 105 100
 120 42.3 36.6 54.8

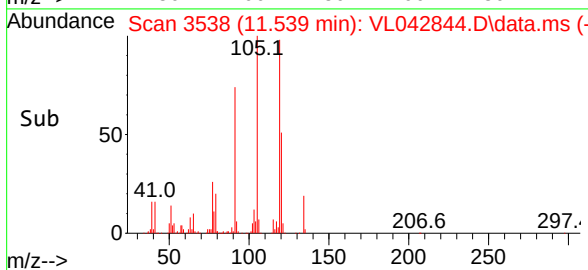
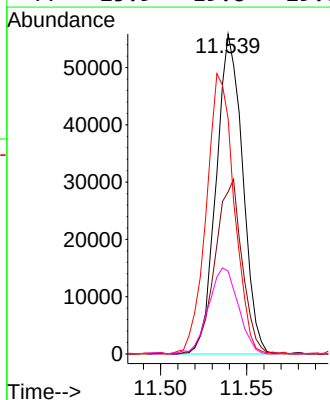
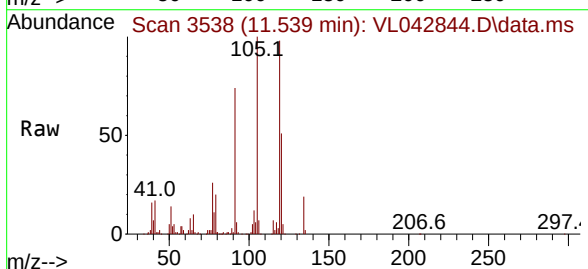
Manual Integrations
 APPROVED

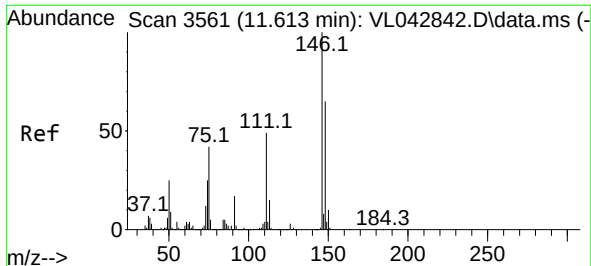
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#74
 1,2,4-Trimethylbenzene
 Concen: 1.083 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion:105 Resp: 59633
 Ion Ratio Lower Upper
 105 100
 120 50.7 39.8 59.6
 91 73.3 54.2 81.4
 77 25.9 19.8 29.6





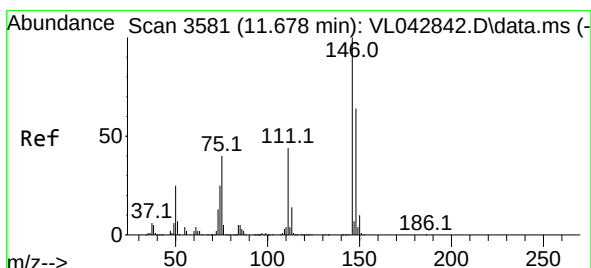
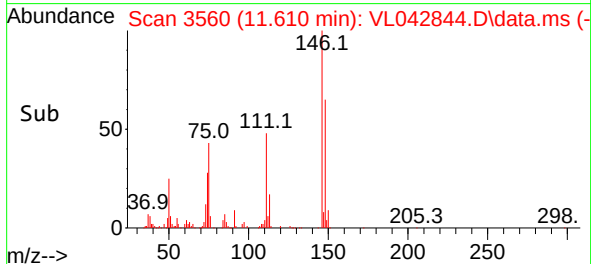
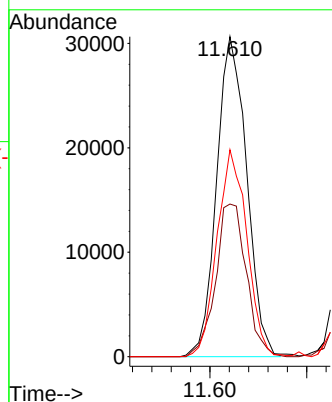
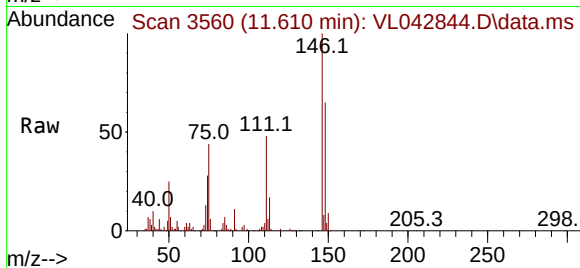
#75
1,3-Dichlorobenzene
Concen: 1.057 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:146 Resp: 33064
Ion Ratio Lower Upper
146 100
111 48.6 23.9 71.7
148 64.1 31.4 94.0

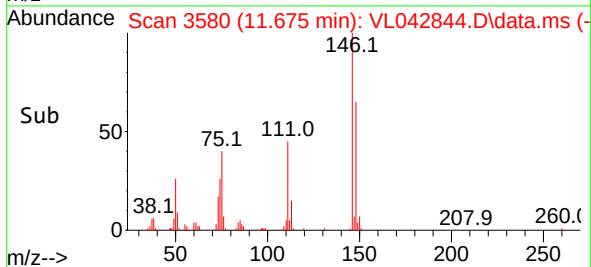
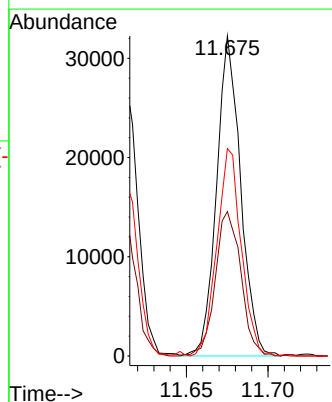
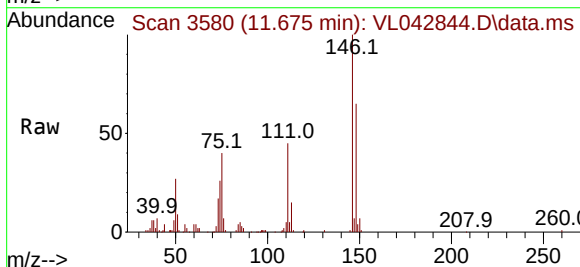
Manual Integrations
APPROVED

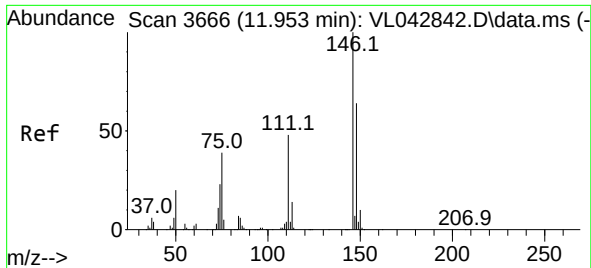
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#76
1,4-Dichlorobenzene
Concen: 1.045 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:146 Resp: 33064
Ion Ratio Lower Upper
146 100
111 48.1 22.7 68.1
148 66.0 31.8 95.3





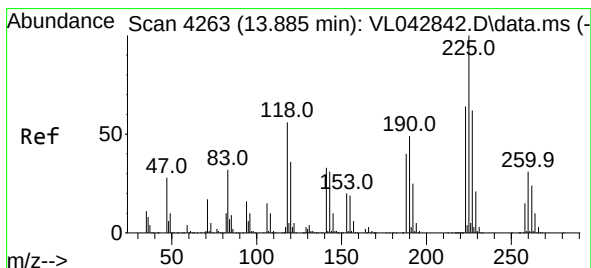
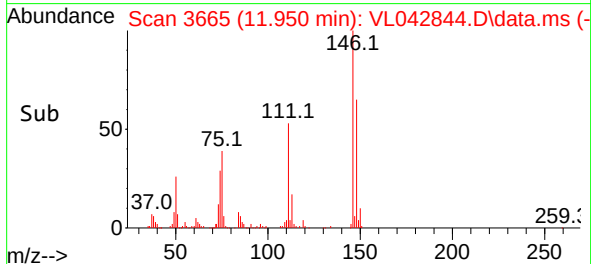
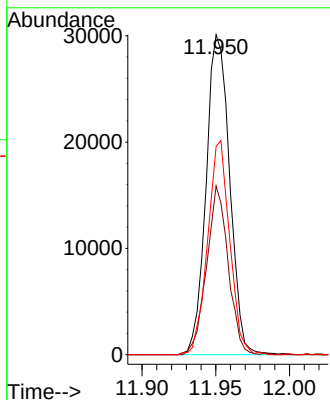
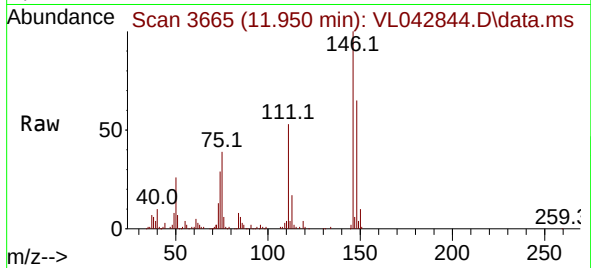
#77
1,2-Dichlorobenzene
Concen: 1.090 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 33404
Ion Ratio Lower Upper
146 100
111 48.4 24.6 74.0
148 62.7 32.0 96.0

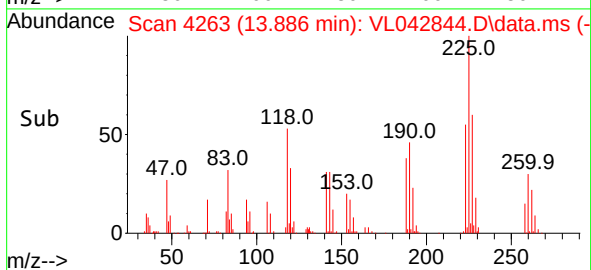
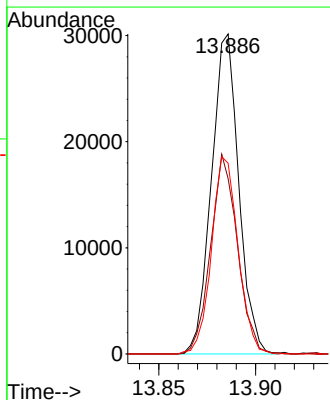
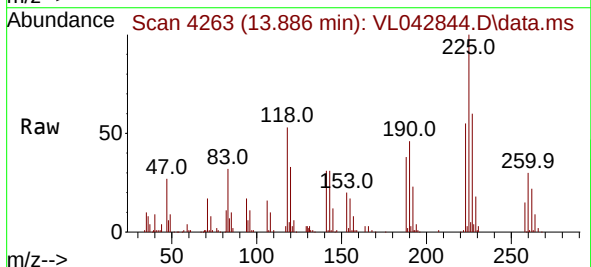
Manual Integrations
APPROVED

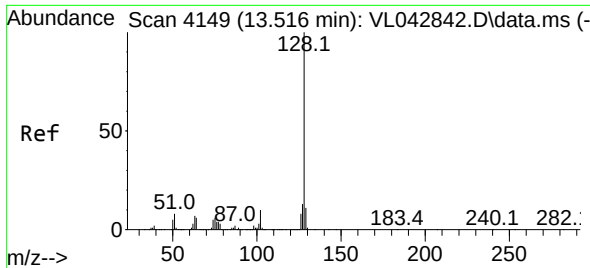
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#78
Hexachloro-1,3-Butadiene
Concen: 1.177 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

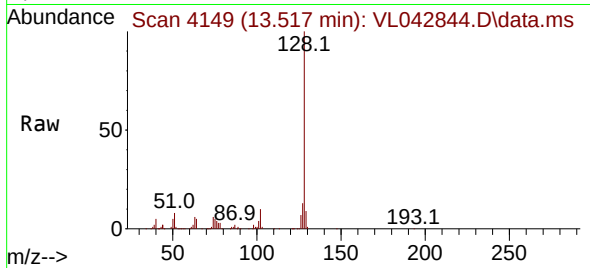
Tgt Ion:225 Resp: 29555
Ion Ratio Lower Upper
225 100
223 61.2 51.4 77.2
227 60.0 51.9 77.9





#79
Naphthalene
Concen: 1.169 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

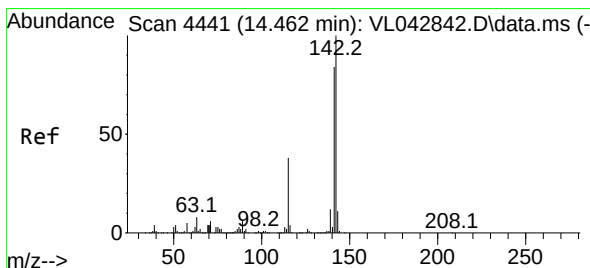
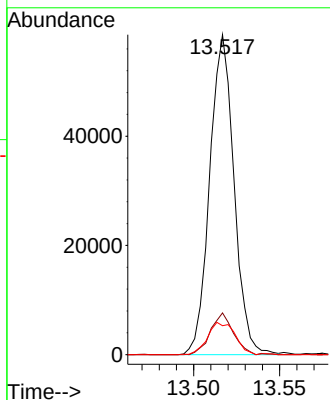
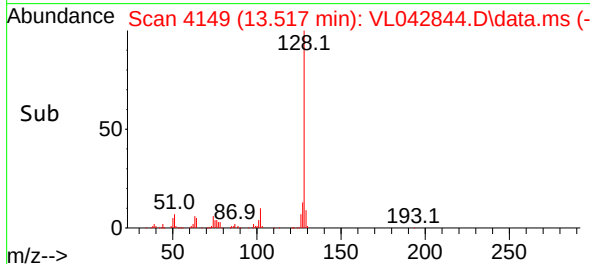
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



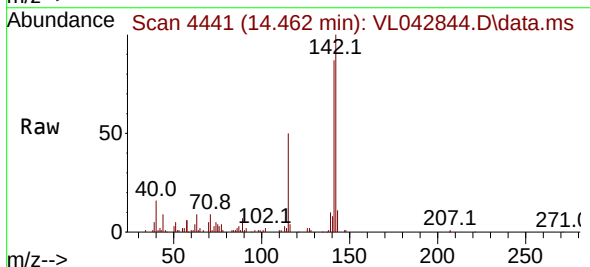
Tgt Ion:128 Resp: 57580
Ion Ratio Lower Upper
128 100
127 13.1 10.6 16.0
129 9.1 8.9 13.3

Manual Integrations
APPROVED

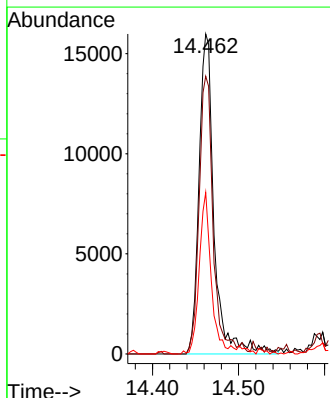
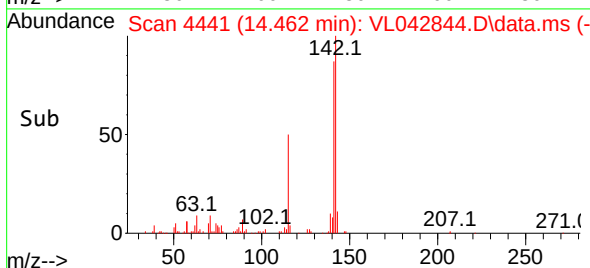
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

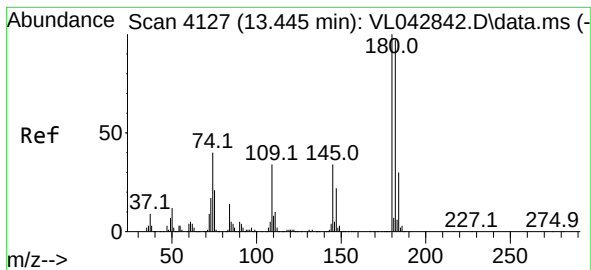


#80
Naphthalene,2-methyl-
Concen: 1.045 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41



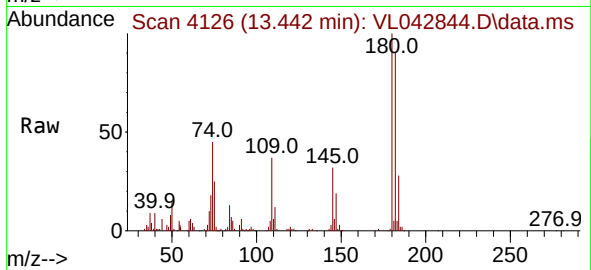
Tgt Ion:142 Resp: 19375
Ion Ratio Lower Upper
142 100
141 81.6 67.0 100.6
115 43.2 30.9 46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 1.111 ppbv
 RT: 13.442 min Scan# 4126
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

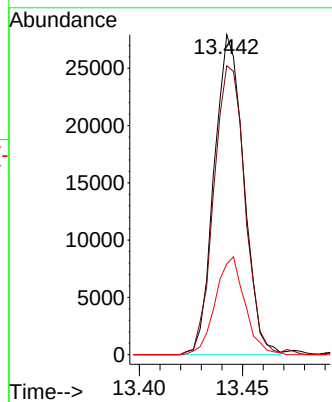
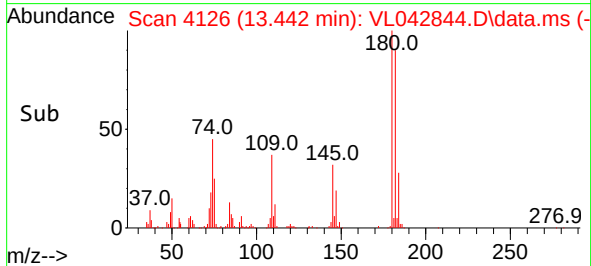
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:180 Resp: 2786
 Ion Ratio Lower Upper
 180 100
 182 95.5 76.9 115.3
 184 30.3 24.5 36.7

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



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

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_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	2.797	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-Trichlorotrifluo...	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

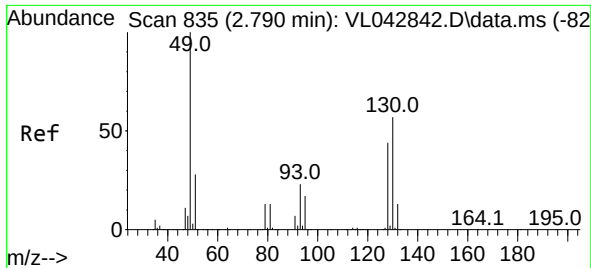
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

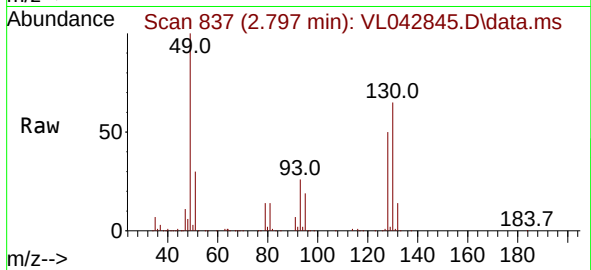
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	11259m	0.508	ppbv	
47) 1,1,2-Trichloroethane	6.603	97	7835m	0.534	ppbv	
48) Dibromochloromethane	7.406	129	11805	0.497	ppbv	100
49) Bromoform	9.497	173	9232	0.471	ppbv	95
50) 4-Methyl-2-Pentanone	5.778	43	19028m	0.524	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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 835
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

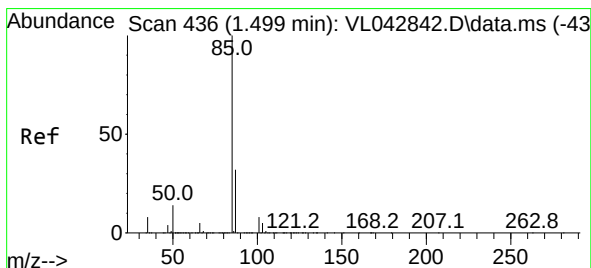
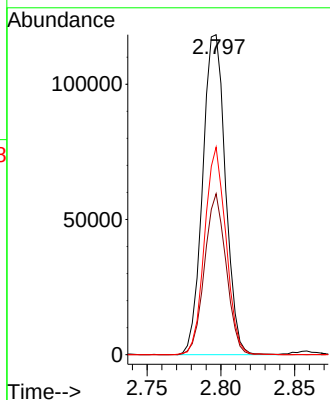
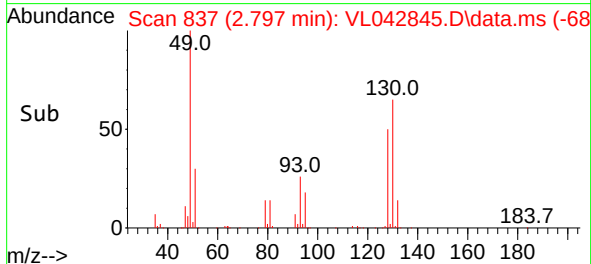
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 49 Resp: 126879
Ion Ratio Lower Upper
49 100
128 47.7 23.7 71.1
130 60.9 30.6 91.6

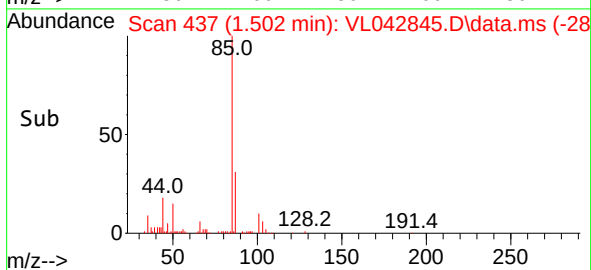
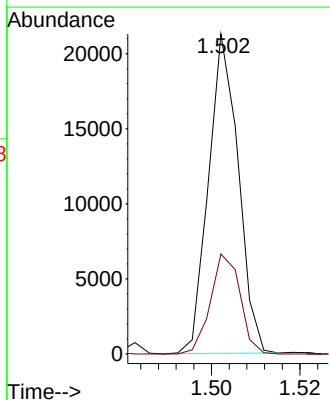
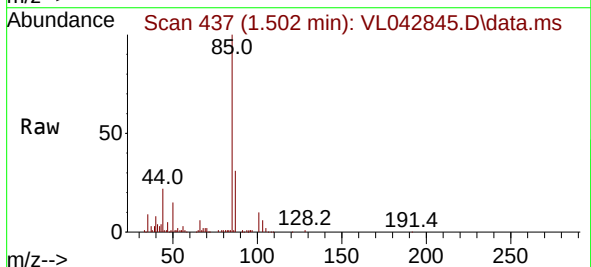
Manual Integrations
APPROVED

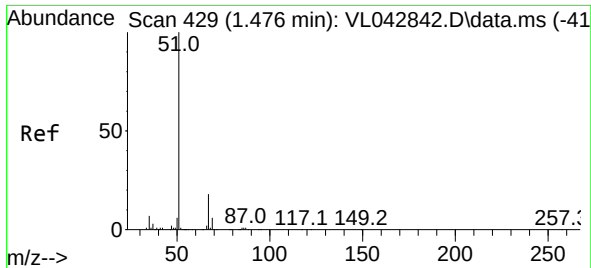
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#2
Dichlorodifluoromethane
Concen: 0.534 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

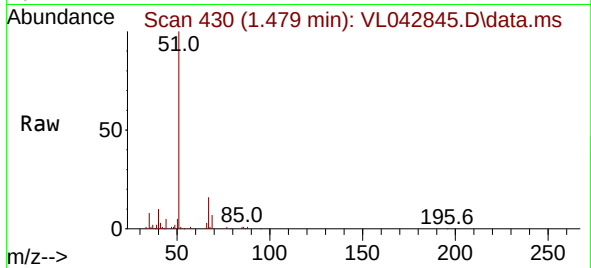
Tgt Ion: 85 Resp: 9937
Ion Ratio Lower Upper
85 100
87 31.3 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.540 ppbv
RT: 1.479 min Scan# 411
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

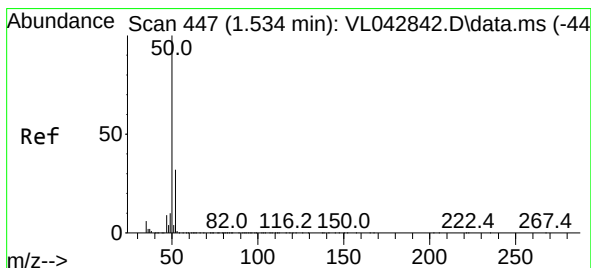
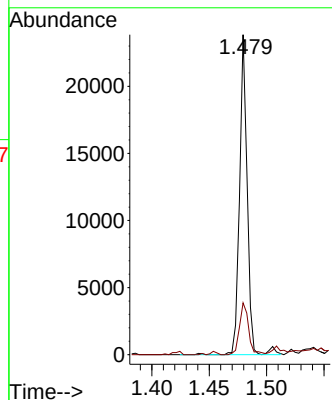
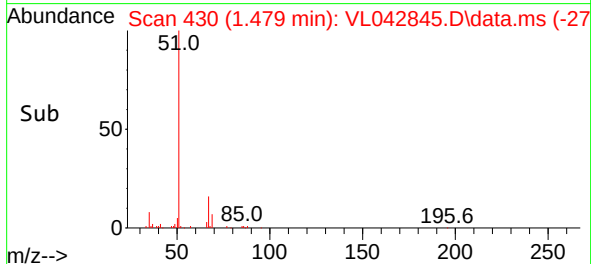
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



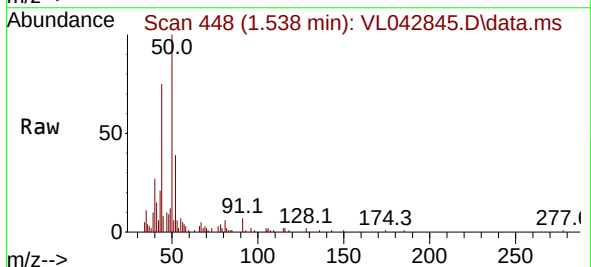
Tgt Ion: 51 Resp: 1111
Ion Ratio Lower Upper
51 100
67 20.5 14.9 22.3

Manual Integrations
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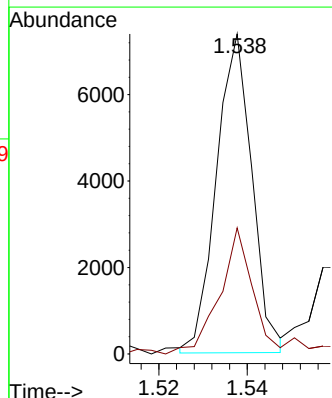
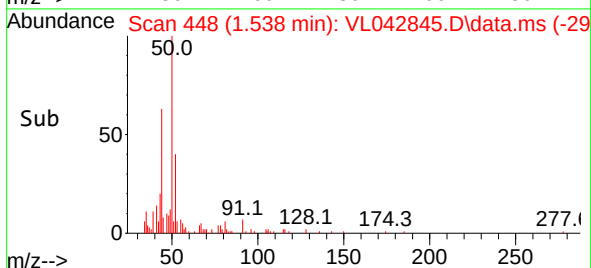
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

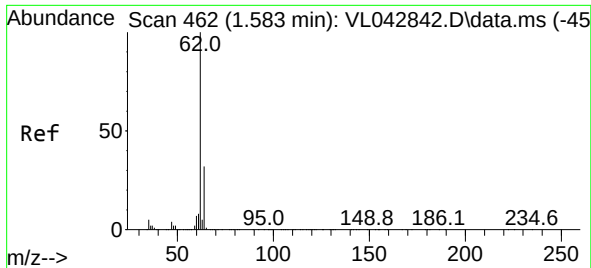


#4
Chloromethane
Concen: 0.548 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



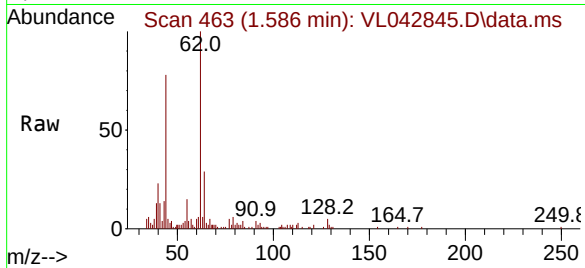
Tgt Ion: 50 Resp: 4112
Ion Ratio Lower Upper
50 100
52 38.2 25.9 38.9





#5
 Vinyl Chloride
 Concen: 0.509 ppbv
 RT: 1.586 min Scan# 40
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

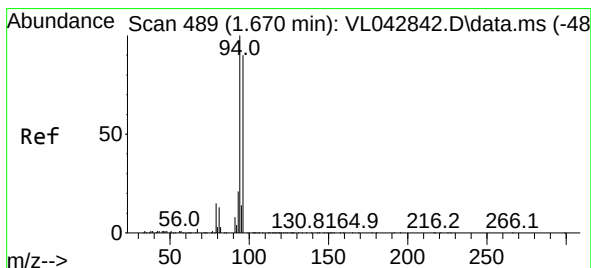
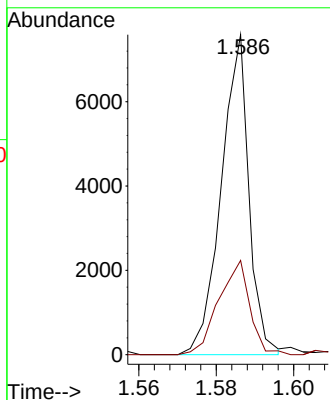
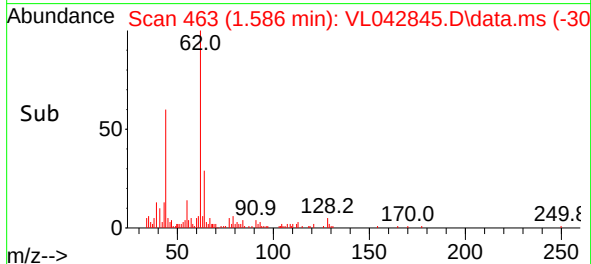
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



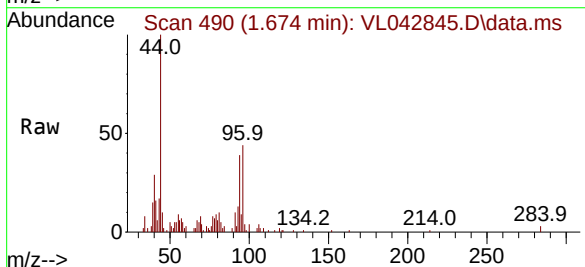
Tgt Ion: 62 Resp: 3762
 Ion Ratio Lower Upper
 62 100
 64 28.3 25.4 38.2

Manual Integrations
 APPROVED

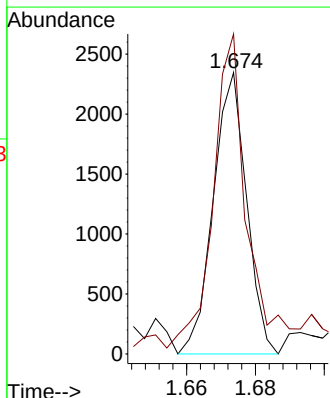
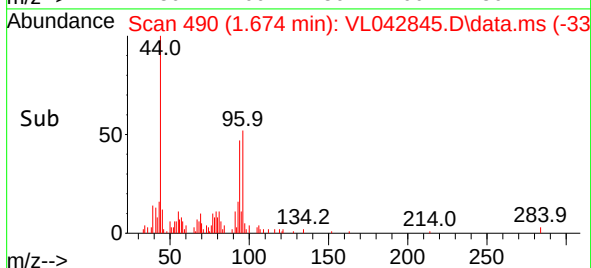
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

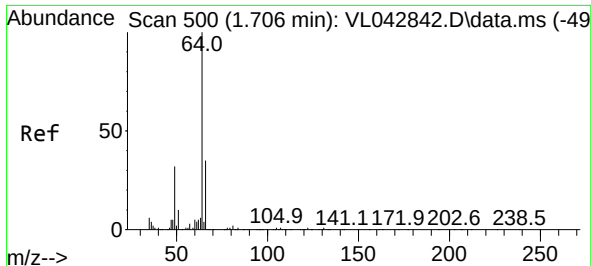


#6
 Bromomethane
 Concen: 0.533 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17



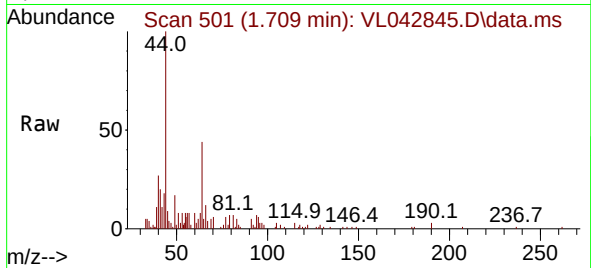
Tgt Ion: 94 Resp: 1576
 Ion Ratio Lower Upper
 94 100
 96 106.9 72.1 108.1





#7
Chloroethane
Concen: 0.586 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

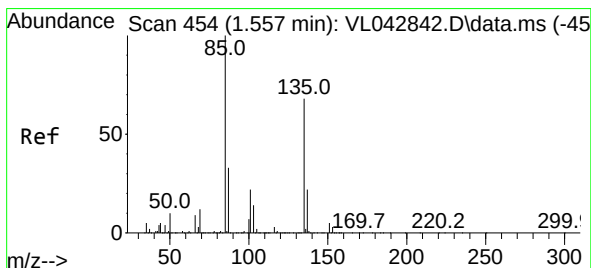
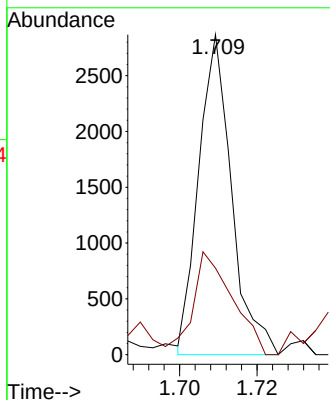
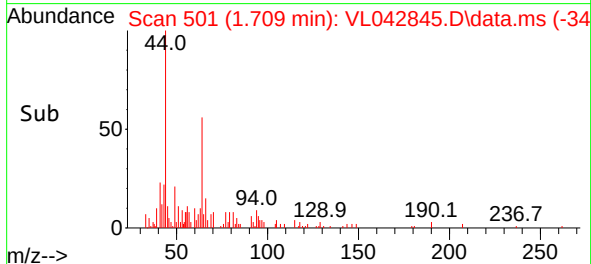
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



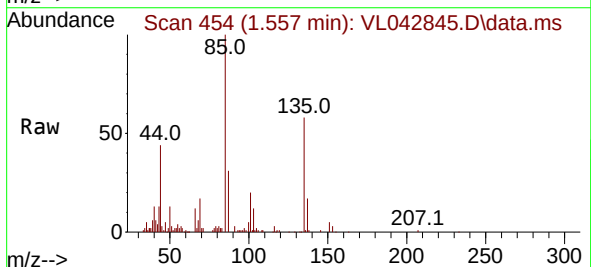
Tgt Ion: 64 Resp: 1690
Ion Ratio Lower Upper
64 100
66 27.0 28.6 42.8

Manual Integrations
APPROVED

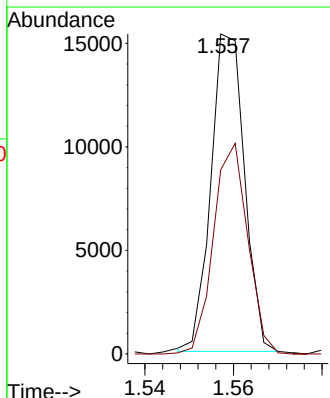
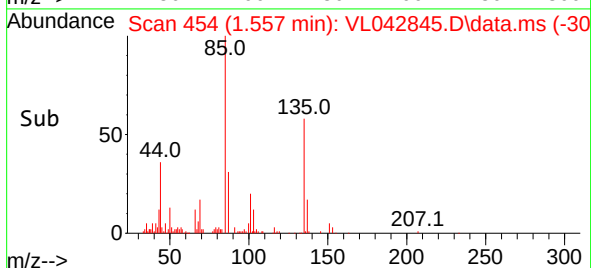
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

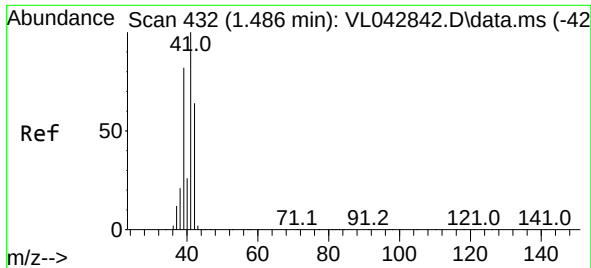


#8
Dichlorotetrafluoroethane
Concen: 0.531 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



Tgt Ion: 85 Resp: 8079
Ion Ratio Lower Upper
85 100
135 67.7 51.2 76.8





#9

Propene

Concen: 0.589 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

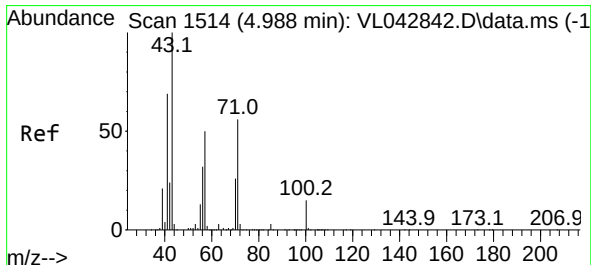
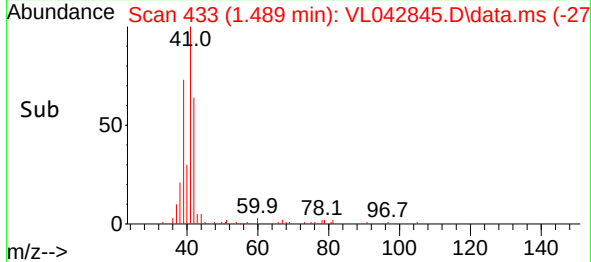
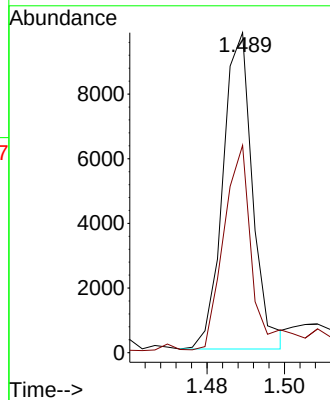
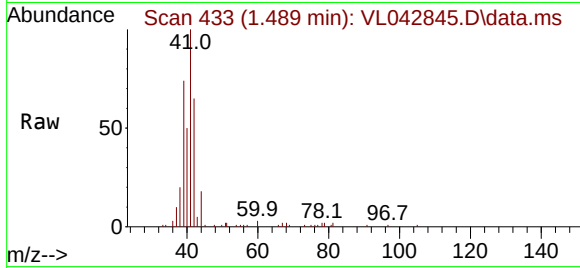
VSTDICC0.5

Tgt Ion: 41 Resp: 5225
 Ion Ratio Lower Upper
 41 100
 42 73.7 53.0 79.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#10

Heptane

Concen: 0.537 ppbv

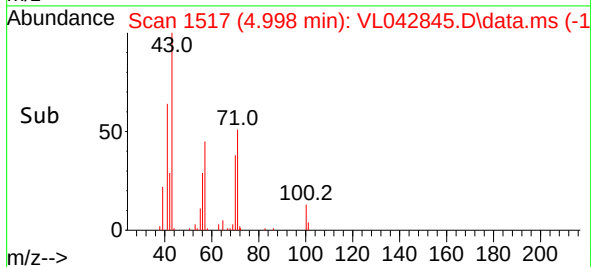
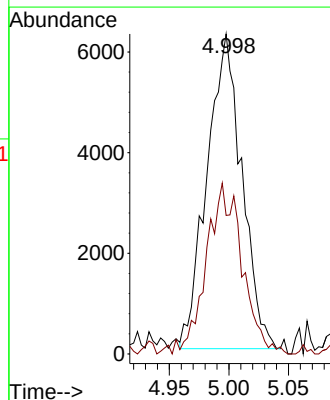
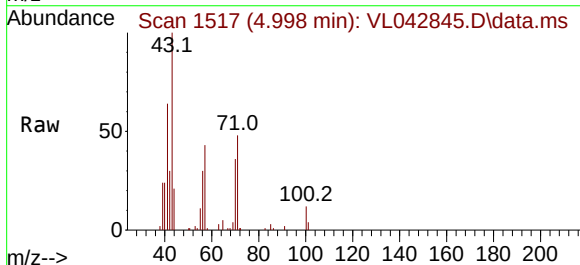
RT: 4.998 min Scan# 1517

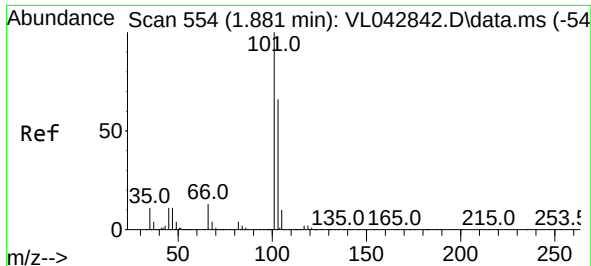
Delta R.T. 0.010 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

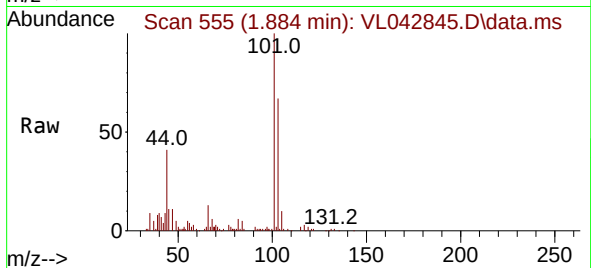
Tgt Ion: 43 Resp: 12747
 Ion Ratio Lower Upper
 43 100
 57 56.9 41.4 62.0





#11
 Trichlorofluoromethane
 Concen: 0.558 ppbv
 RT: 1.884 min Scan# 554
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

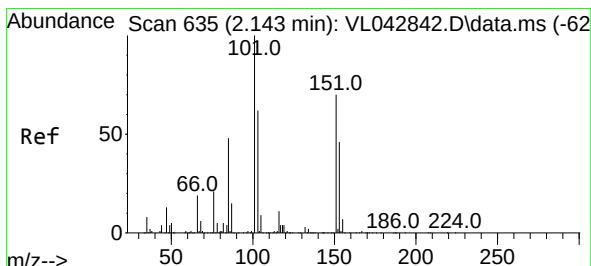
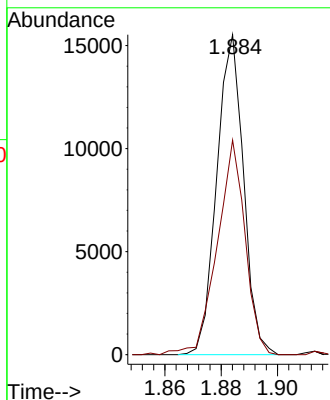
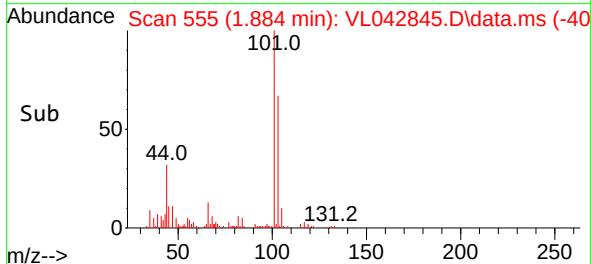
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



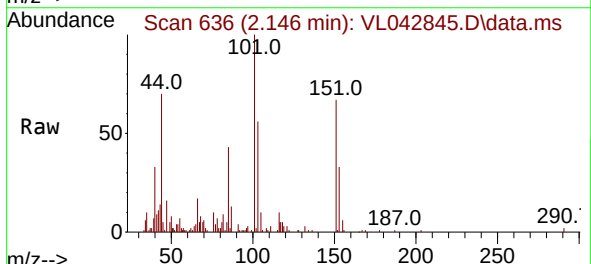
Tgt Ion:101 Resp: 10238
 Ion Ratio Lower Upper
 101 100
 103 67.0 52.5 78.7

Manual Integrations
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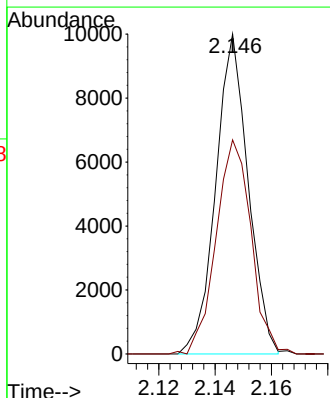
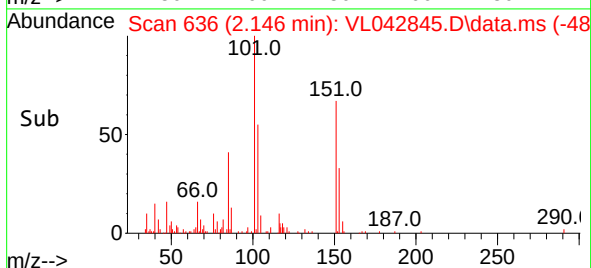
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

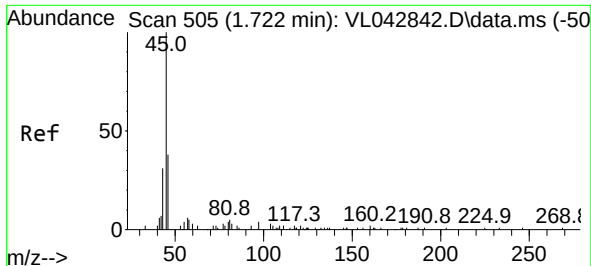


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.546 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17



Tgt Ion:101 Resp: 7984
 Ion Ratio Lower Upper
 101 100
 151 72.3 56.4 84.6





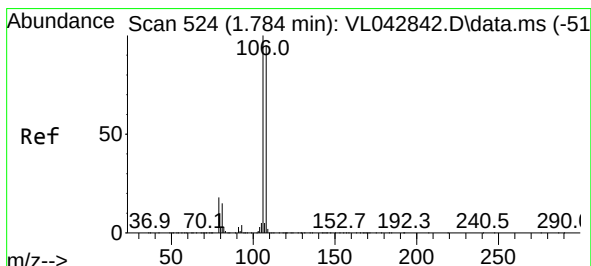
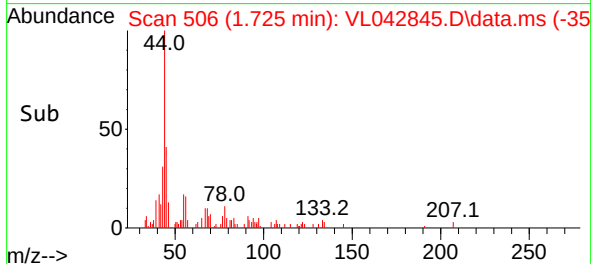
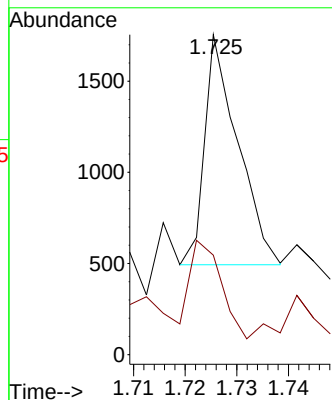
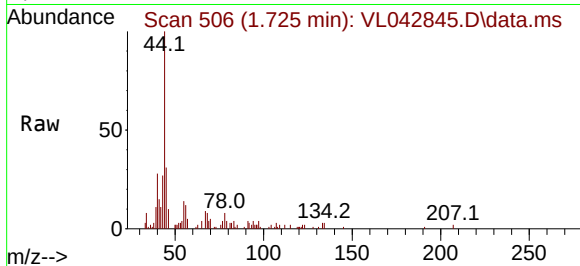
#13
Ethanol
Concen: 0.639 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 562
Ion Ratio Lower Upper
45 100
46 131.5 17.5 69.9

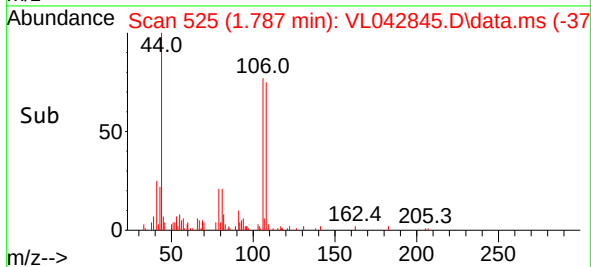
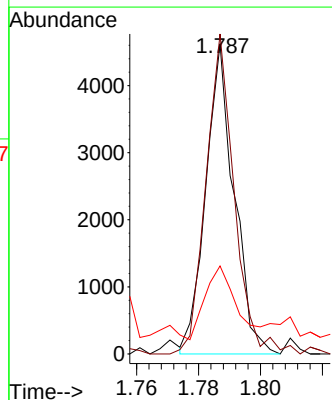
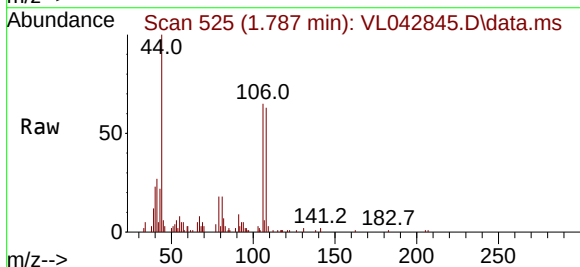
Manual Integrations
APPROVED

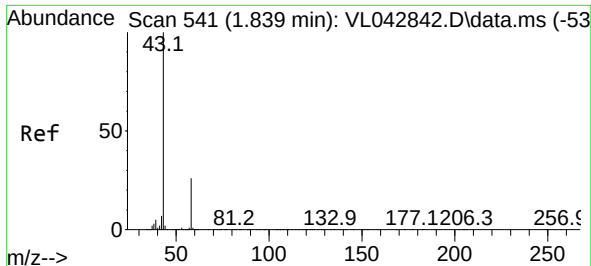
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#14
Bromoethene
Concen: 0.554 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

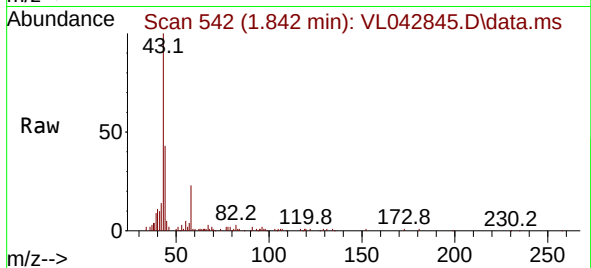
Tgt Ion:108 Resp: 2932
Ion Ratio Lower Upper
108 100
106 106.1 85.1 127.7
79 62.6 16.3 24.5





#15
Acetone
Concen: 0.646 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

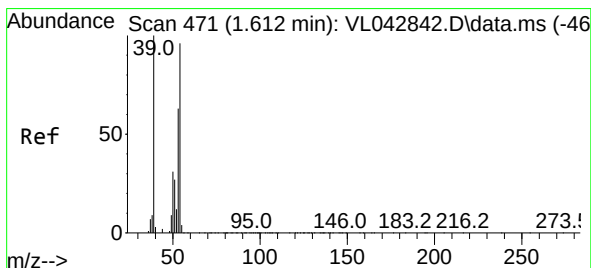
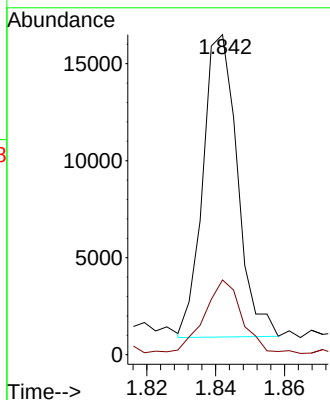
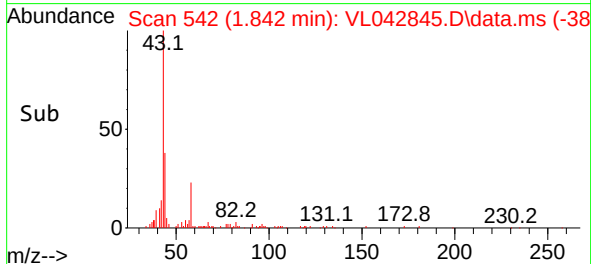
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



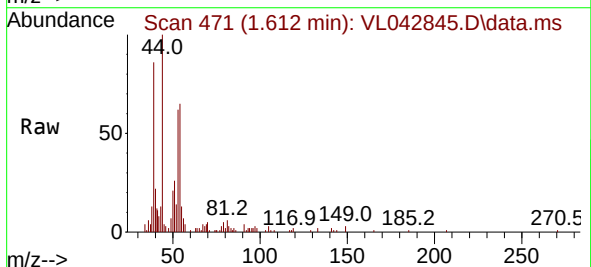
Tgt Ion: 43 Resp: 10830
Ion Ratio Lower Upper
43 100
58 26.8 22.4 33.6

Manual Integrations
APPROVED

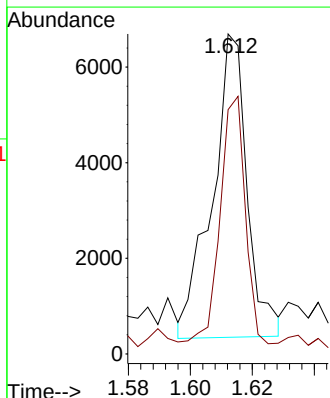
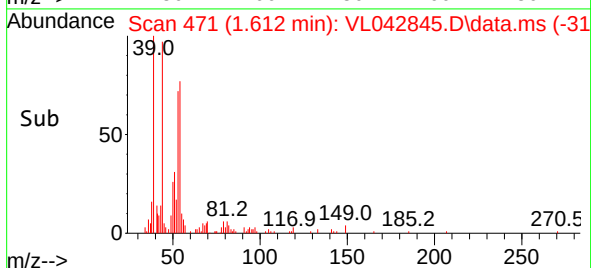
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

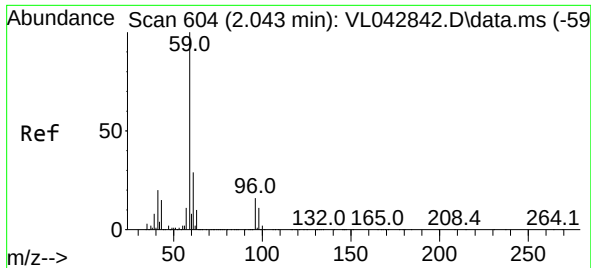


#16
1,3-Butadiene
Concen: 0.653 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



Tgt Ion: 39 Resp: 4970
Ion Ratio Lower Upper
39 100
54 78.6 63.6 95.4





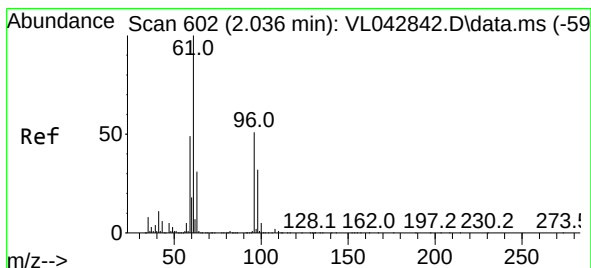
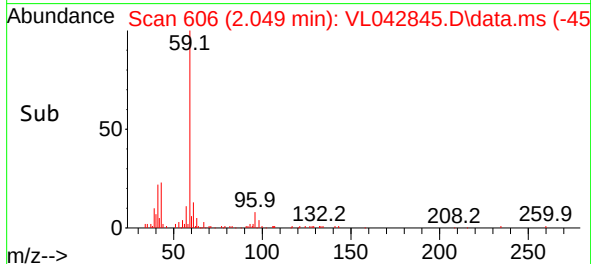
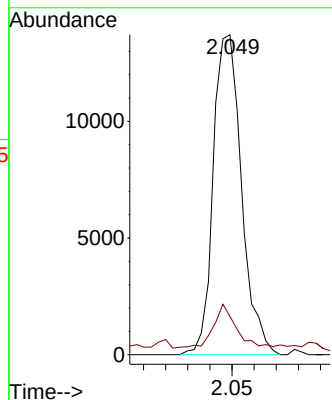
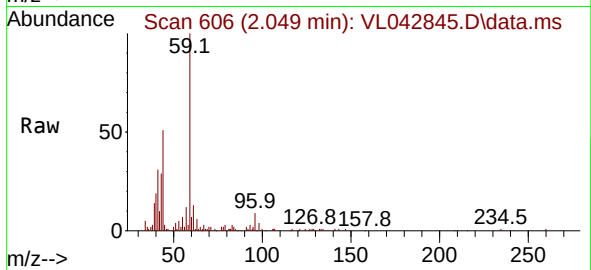
#17
tert-Butyl alcohol
Concen: 0.612 ppbv
RT: 2.049 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

Tgt Ion: 59 Resp: 1218
Ion Ratio Lower Upper
59 100
57 15.3 9.0 13.4

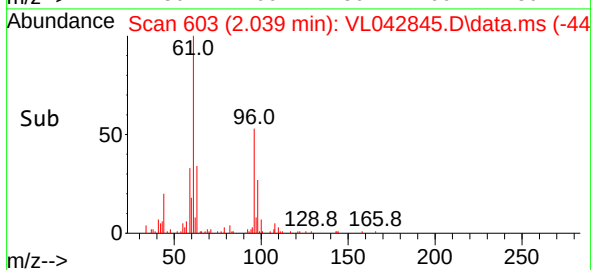
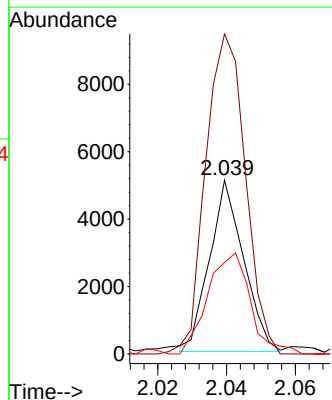
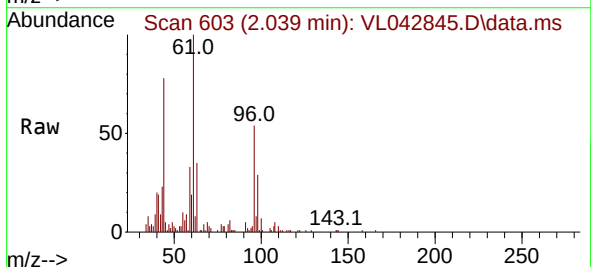
Manual Integrations
APPROVED

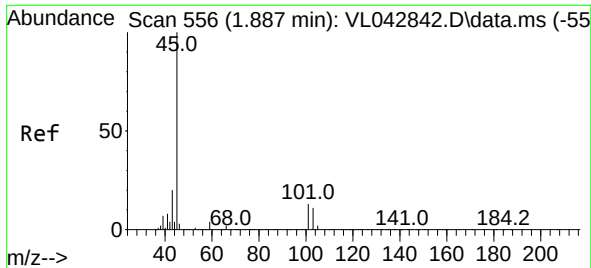
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#18
1,1-Dichloroethene
Concen: 0.545 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 96 Resp: 3501
Ion Ratio Lower Upper
96 100
61 188.2 158.2 237.4
98 53.8 50.6 76.0





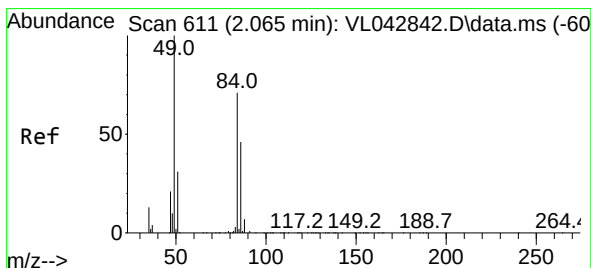
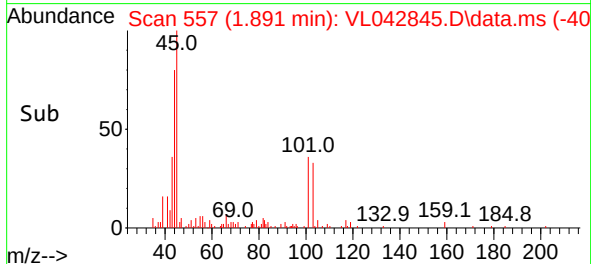
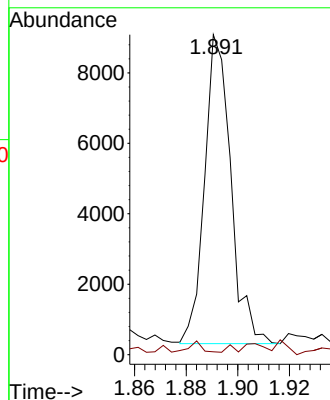
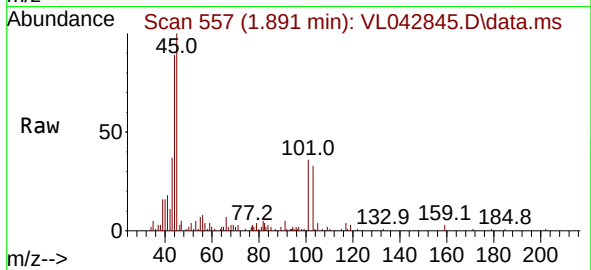
#19
Isopropyl Alcohol
Concen: 0.618 ppbv
RT: 1.891 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 6194
Ion Ratio Lower Upper
45 100
58 13.3 32.7 49.13

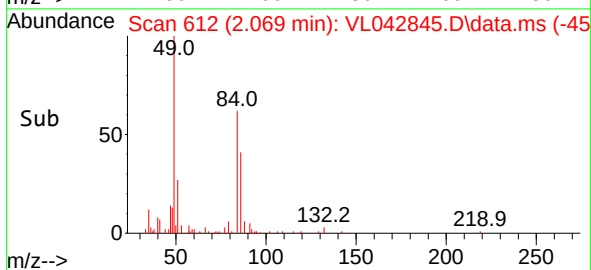
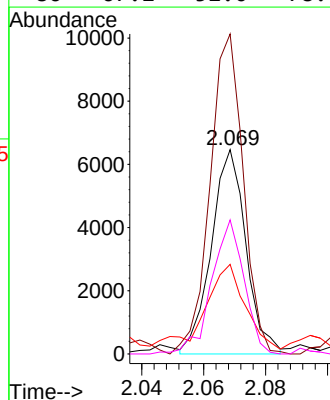
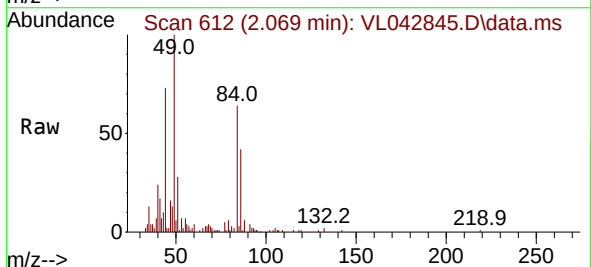
Manual Integrations
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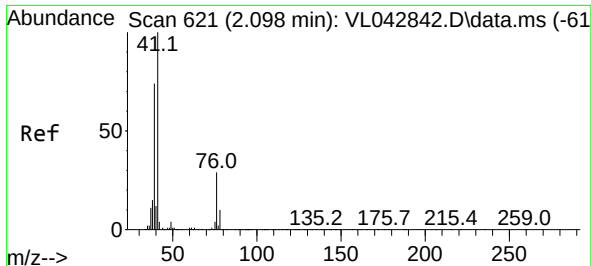
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#20
Methylene Chloride
Concen: 0.715 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

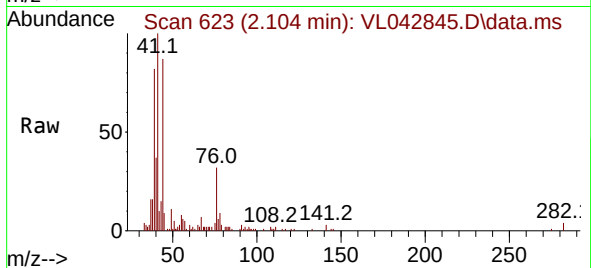
Tgt Ion: 84 Resp: 5025
Ion Ratio Lower Upper
84 100
49 159.3 112.3 168.5
51 42.5 36.0 54.0
86 67.2 52.0 78.0





#21
 Allyl Chloride
 Concen: 0.600 ppbv
 RT: 2.104 min Scan# 611
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

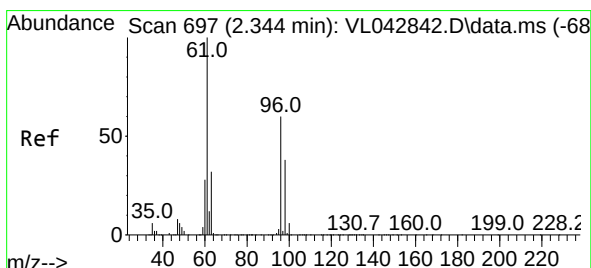
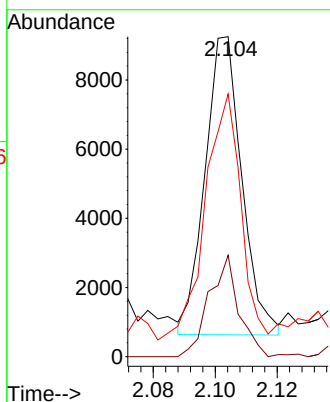
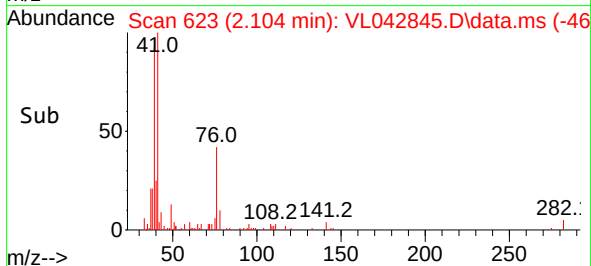
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



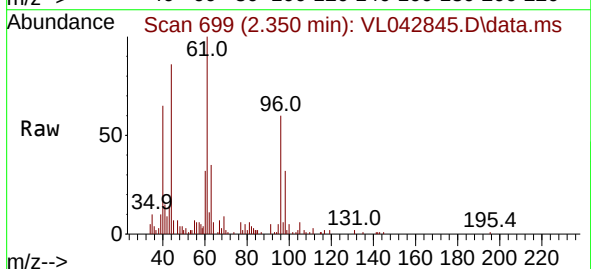
Tgt Ion: 41 Resp: 7120
 Ion Ratio Lower Upper
 41 100
 76 27.8 23.9 35.9
 39 98.9 57.8 86.6

Manual Integrations
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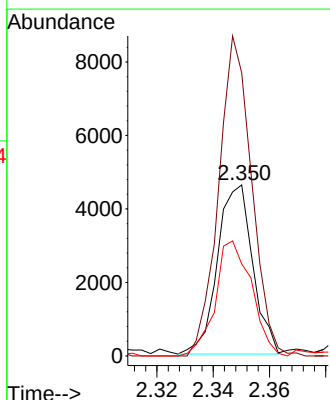
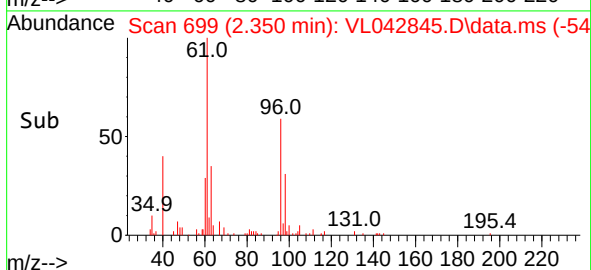
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

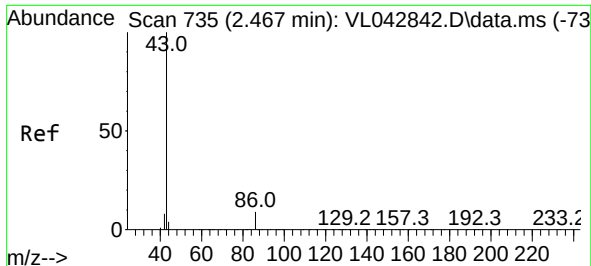


#22
 trans-1,2-Dichloroethene
 Concen: 0.556 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17



Tgt Ion: 96 Resp: 3996
 Ion Ratio Lower Upper
 96 100
 61 167.3 132.6 199.0
 98 54.4 50.0 75.0





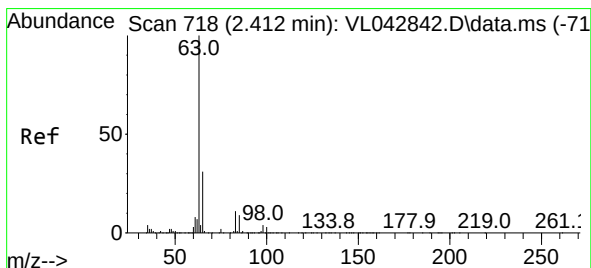
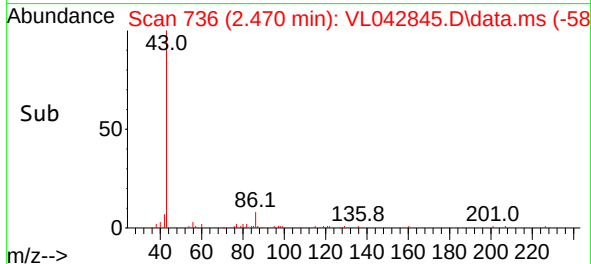
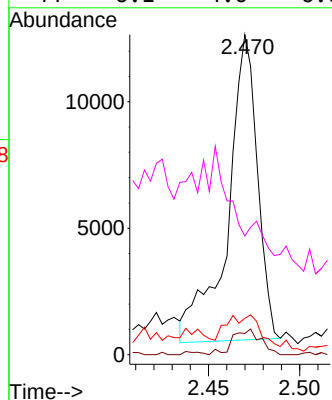
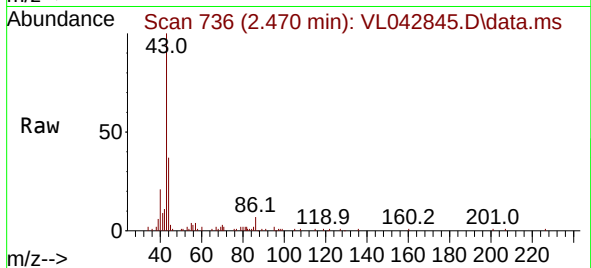
#23
 Vinyl Acetate
 Concen: 0.621 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 43 Resp: 13709
 Ion Ratio Lower Upper
 43 100
 86 7.0 6.6 9.8
 42 9.3 7.0 10.6
 44 6.1 4.0 6.0#

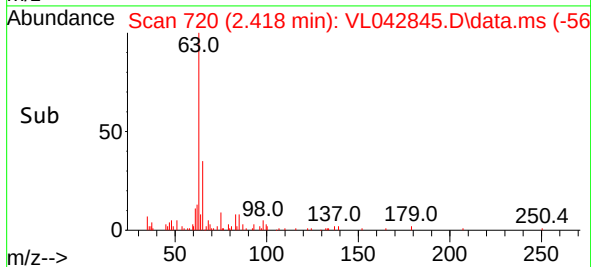
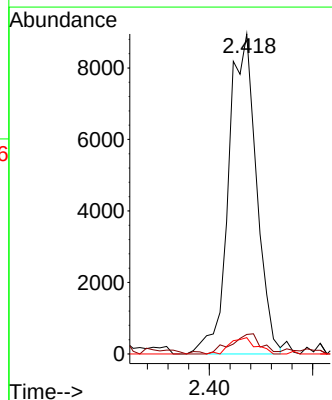
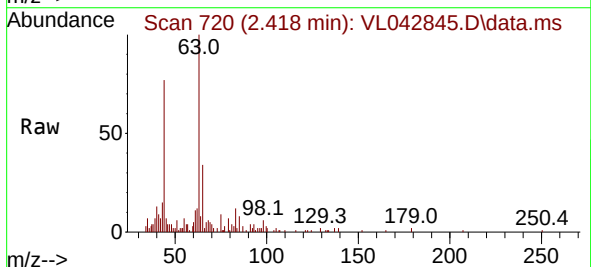
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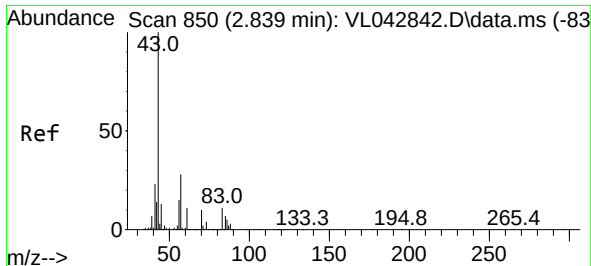
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#24
 1,1-Dichloroethane
 Concen: 0.562 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Tgt Ion: 63 Resp: 8354
 Ion Ratio Lower Upper
 63 100
 98 5.5 2.1 6.5
 100 5.1 1.7 5.1#





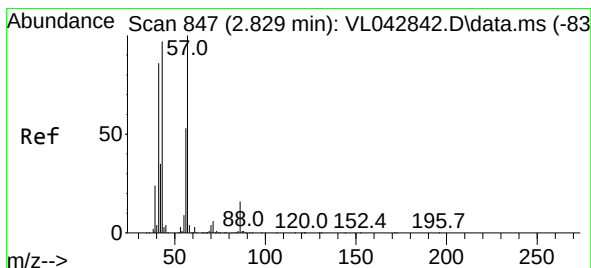
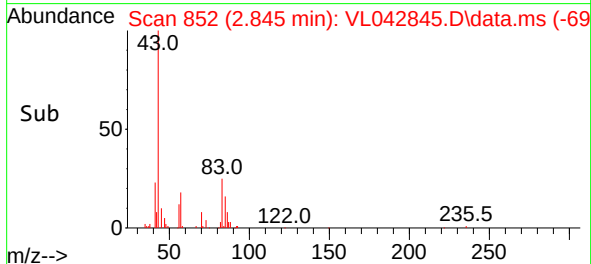
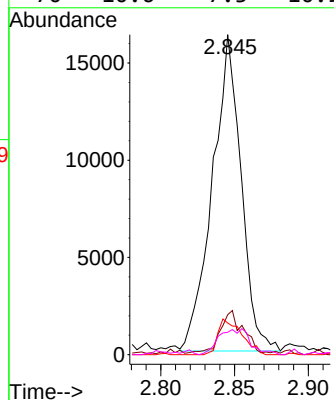
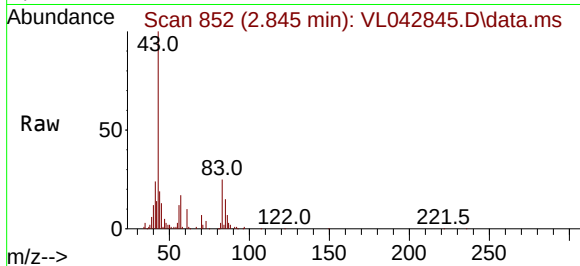
#25
Ethyl Acetate
Concen: 0.545 ppbv
RT: 2.845 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 43 Resp: 2214
Ion Ratio Lower Upper
43 100
45 13.2 8.1 12.1
61 9.4 7.4 11.2
70 10.6 7.3 10.9

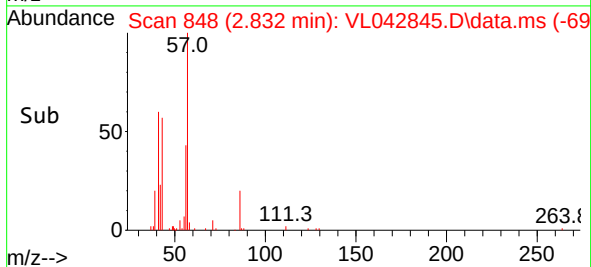
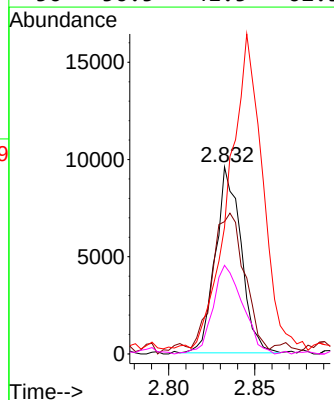
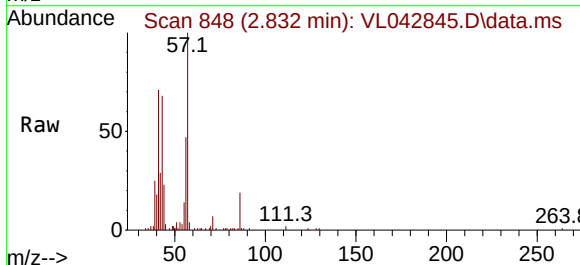
Manual Integrations
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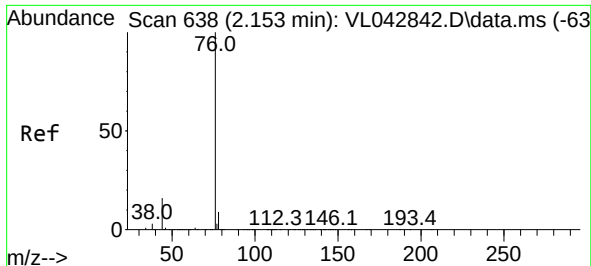
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#26
Hexane
Concen: 0.527 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

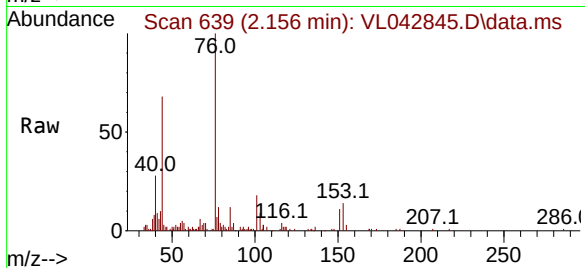
Tgt Ion: 57 Resp: 9879
Ion Ratio Lower Upper
57 100
41 100.6 68.6 103.0
43 236.9 168.5 252.7
56 56.5 41.5 62.3





#27
Carbon Disulfide
Concen: 0.523 ppbv
RT: 2.156 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

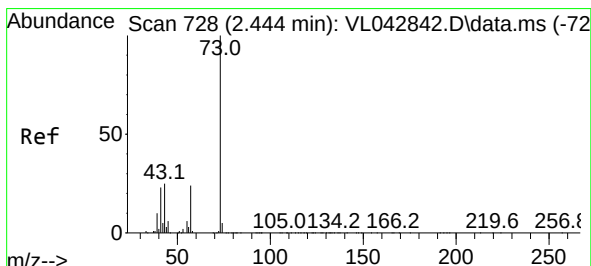
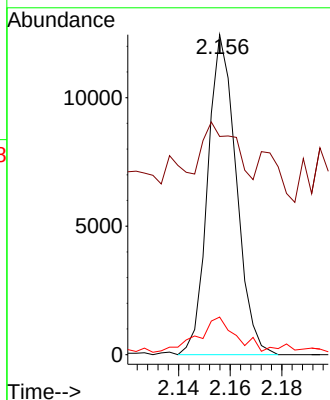
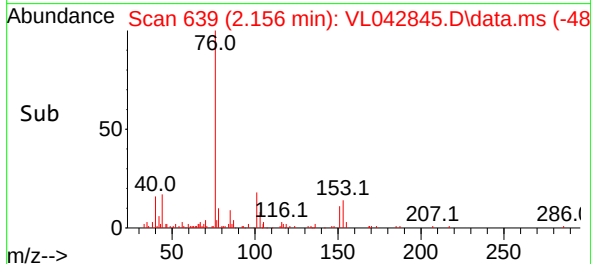
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



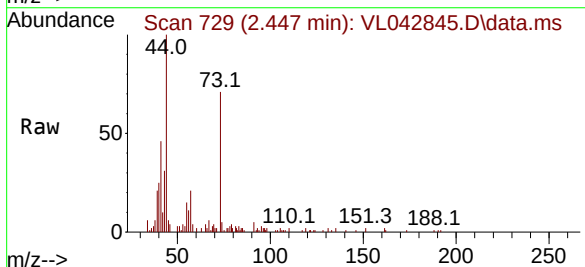
Tgt Ion: 76 Resp: 9539
Ion Ratio Lower Upper
76 100
44 136.8 15.9 23.9
78 22.2 9.5 14.3

Manual Integrations
APPROVED

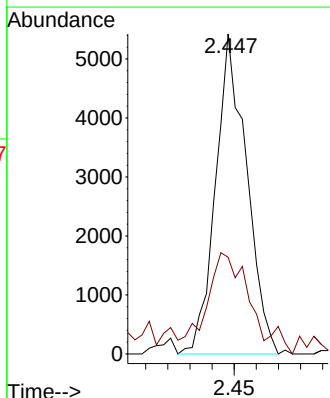
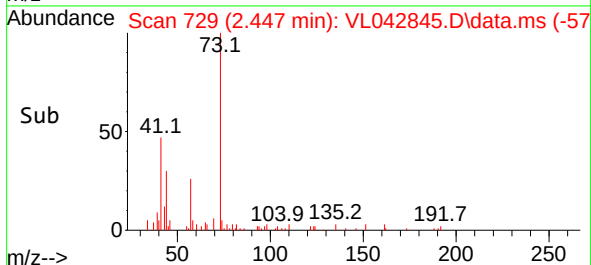
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

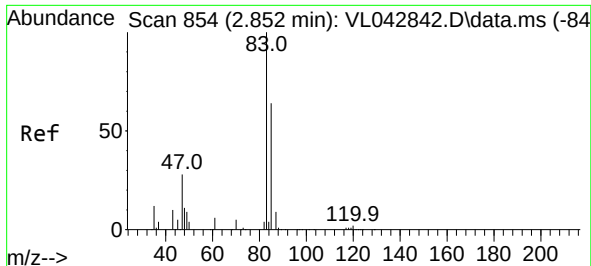


#28
Methyl tert-Butyl Ether
Concen: 0.553 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



Tgt Ion: 73 Resp: 5284
Ion Ratio Lower Upper
73 100
57 46.5 21.6 32.4





#29

Chloroform

Concen: 0.545 ppbv

RT: 2.858 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 83 Resp: 1458

Ion Ratio Lower Upper

83 100

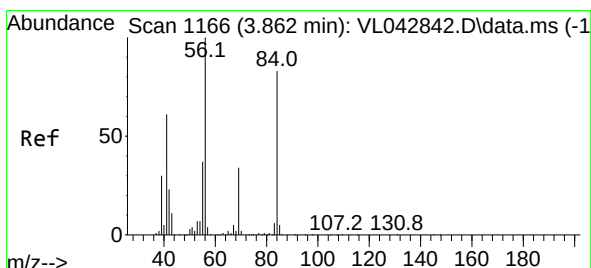
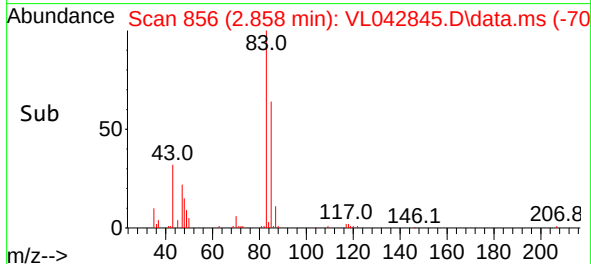
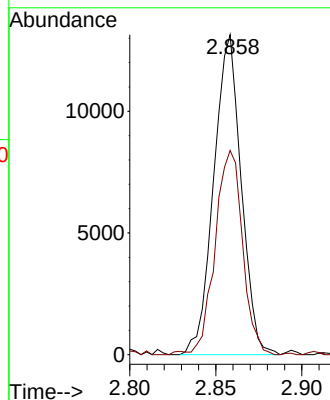
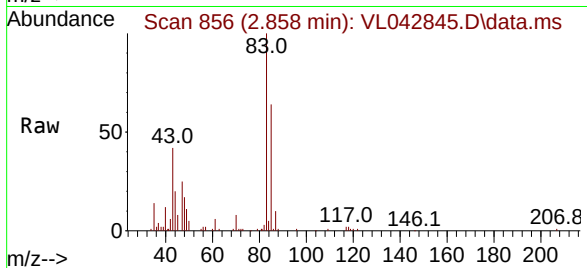
85 63.8 51.1 76.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#30

Cyclohexane

Concen: 0.550 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

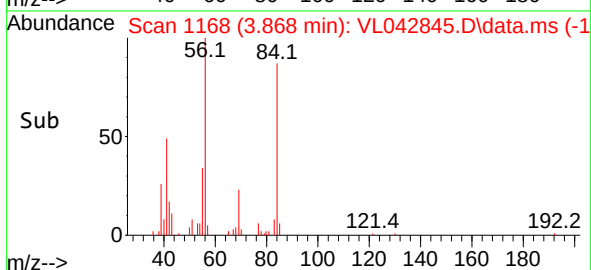
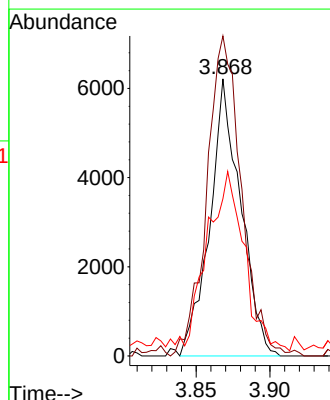
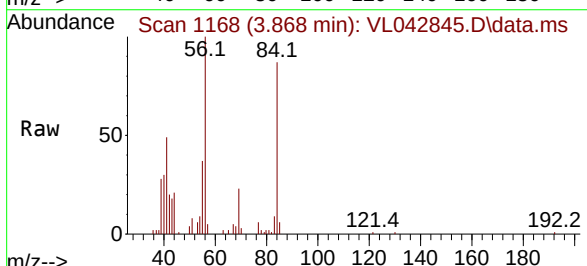
Tgt Ion: 84 Resp: 9037

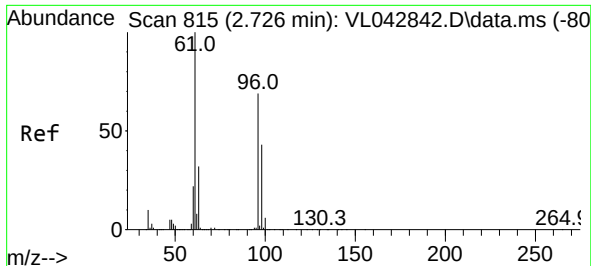
Ion Ratio Lower Upper

84 100

56 131.1 98.8 148.2

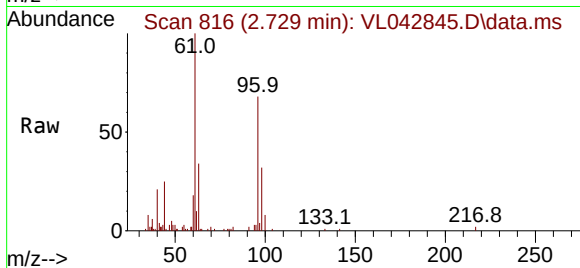
41 80.1 61.3 91.9





#31
 cis-1,2-Dichloroethene
 Concen: 0.550 ppbv
 RT: 2.729 min Scan# 815
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

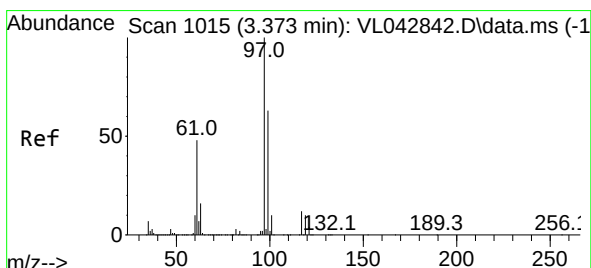
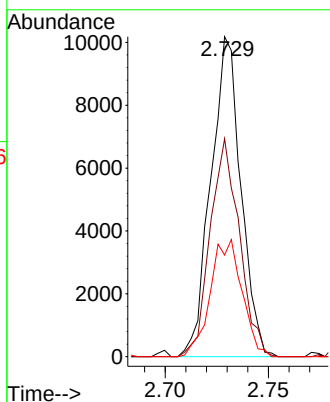
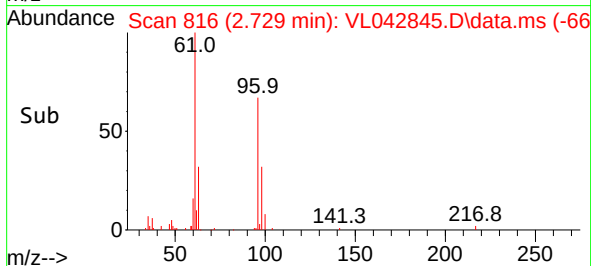
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



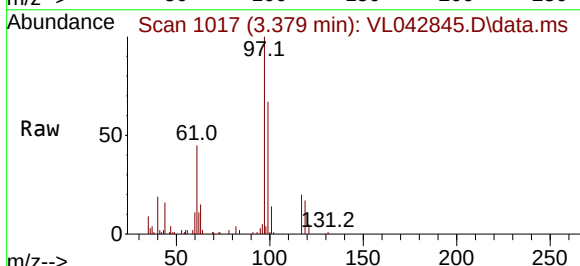
Tgt Ion: 61 Resp: 10308
 Ion Ratio Lower Upper
 61 100
 96 61.7 55.0 82.6
 98 28.7 34.3 51.5

Manual Integrations
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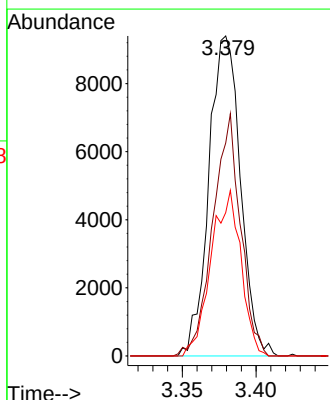
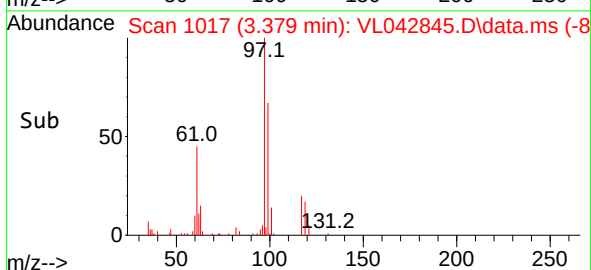
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

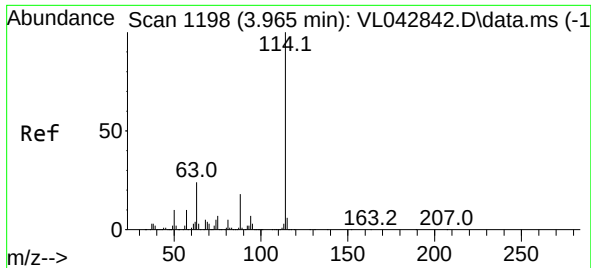


#32
 1,1,1-Trichloroethane
 Concen: 0.494 ppbv
 RT: 3.379 min Scan# 1017
 Delta R.T. 0.007 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17



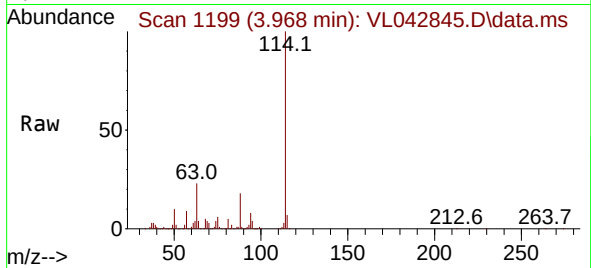
Tgt Ion: 97 Resp: 14011
 Ion Ratio Lower Upper
 97 100
 99 66.4 51.0 76.6
 61 48.9 38.0 57.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

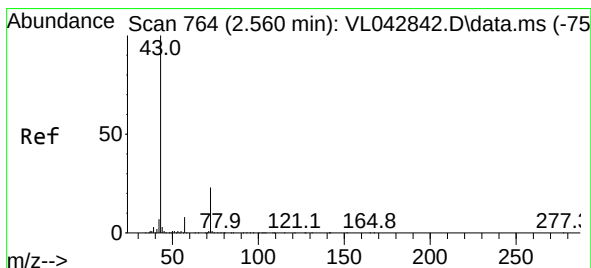
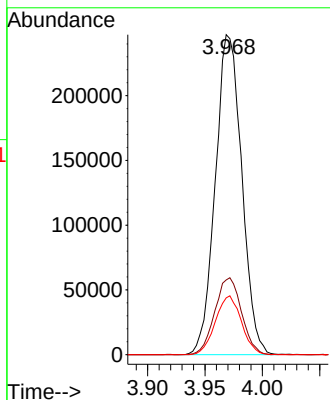
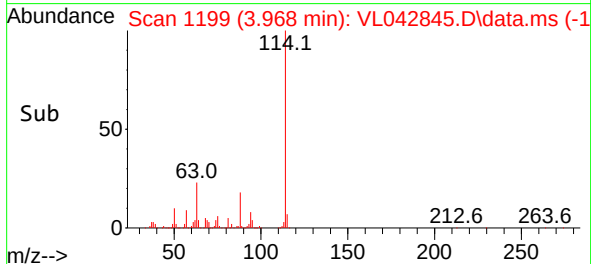
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



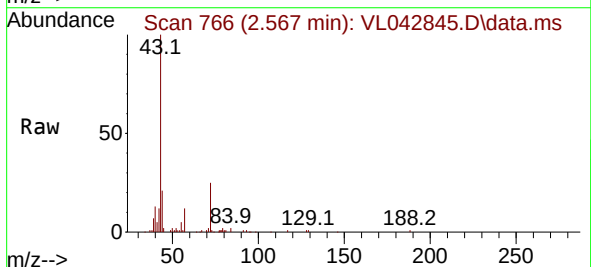
Tgt Ion:114 Resp: 396264
Ion Ratio Lower Upper
114 100
63 24.3 19.7 29.5
88 18.1 14.4 21.6

Manual Integrations
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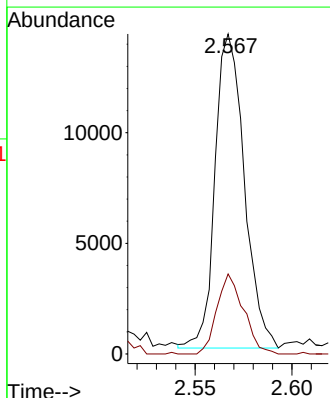
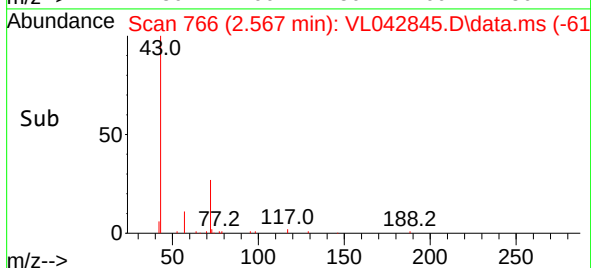
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

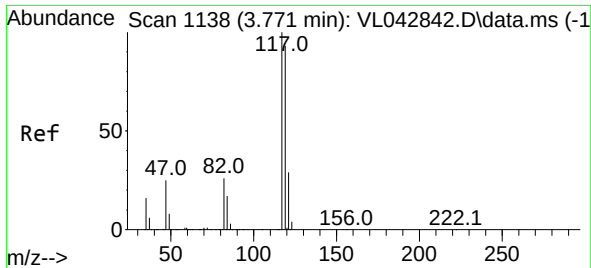


#34
2-Butanone
Concen: 0.558 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



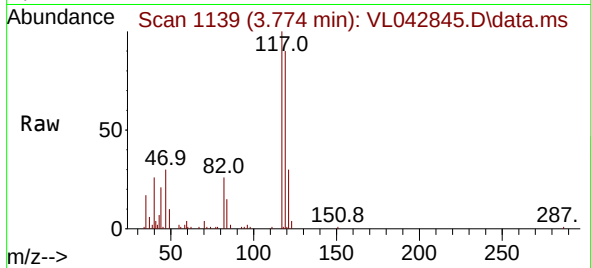
Tgt Ion: 43 Resp: 14923
Ion Ratio Lower Upper
43 100
72 23.3 18.6 28.0





#35
Carbon Tetrachloride
Concen: 0.494 ppbv
RT: 3.774 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

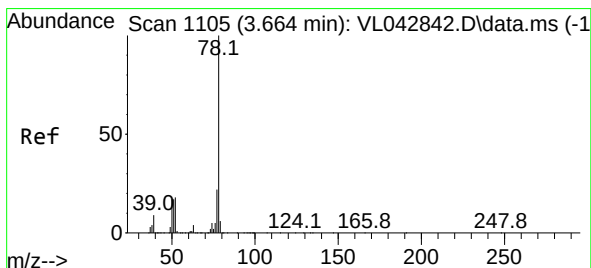
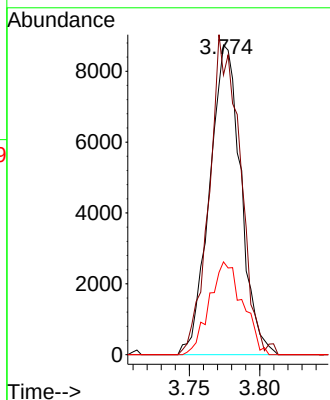
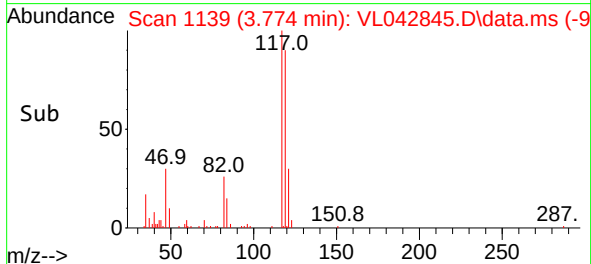
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



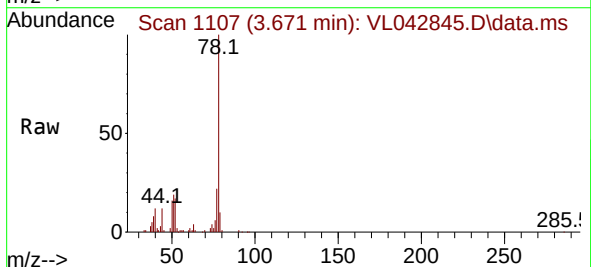
Tgt Ion: 117 Resp: 1350
Ion Ratio Lower Upper
117 100
119 90.3 74.7 112.1
121 30.0 23.2 34.8

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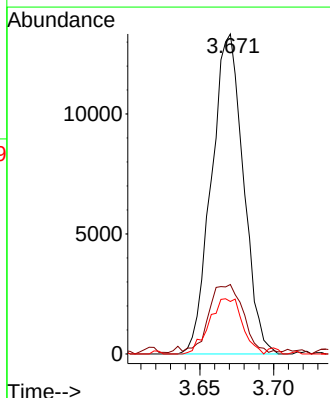
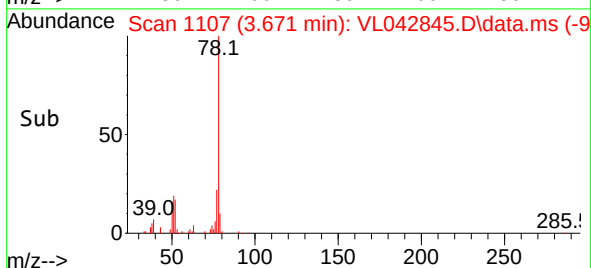
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

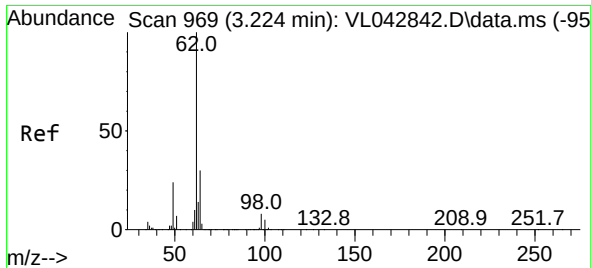


#36
Benzene
Concen: 0.529 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



Tgt Ion: 78 Resp: 20073
Ion Ratio Lower Upper
78 100
77 21.0 17.7 26.5
50 16.4 13.9 20.9





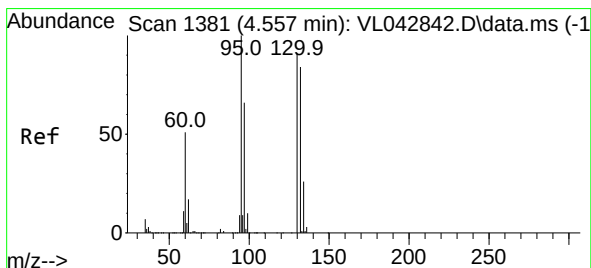
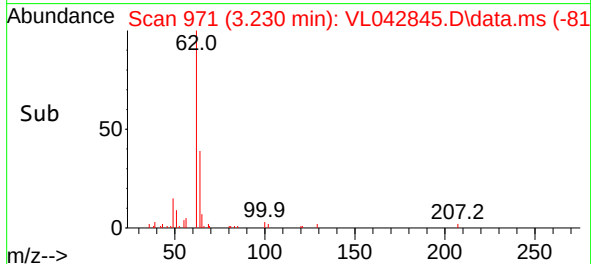
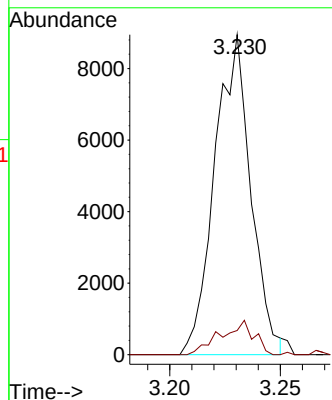
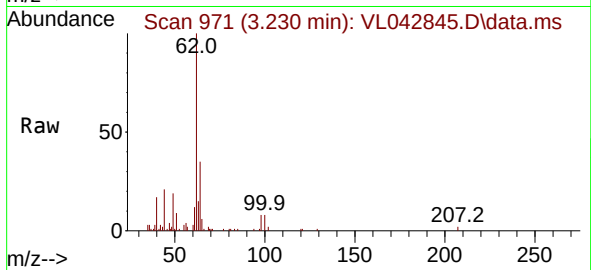
#37
1,2-Dichloroethane
Concen: 0.512 ppbv
RT: 3.230 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 1014
Ion Ratio Lower Upper
62 100
98 10.0 5.9 8.9

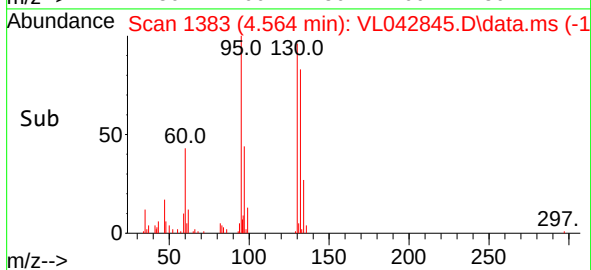
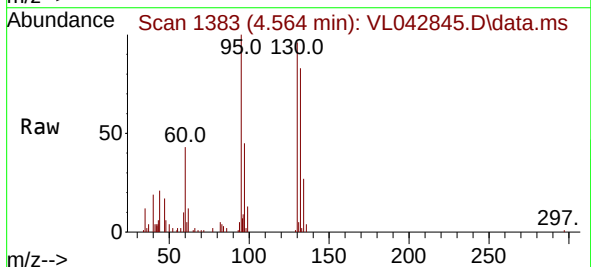
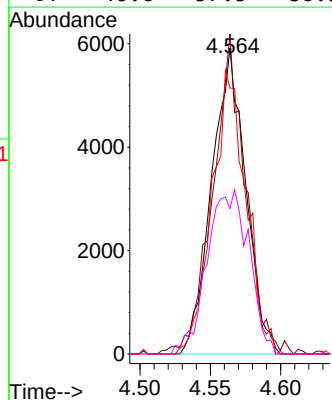
Manual Integrations
APPROVED

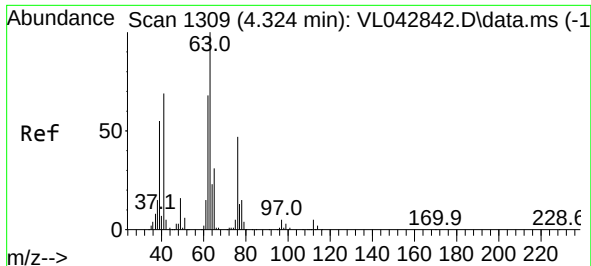
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#38
Trichloroethene
Concen: 0.572 ppbv
RT: 4.564 min Scan# 1383
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:130 Resp: 9918
Ion Ratio Lower Upper
130 100
95 103.5 87.6 131.4
132 86.9 73.8 110.8
97 46.6 57.5 86.3





#39

1,2-Dichloropropane

Concen: 0.541 ppbv

RT: 4.334 min Scan# 1312

Delta R.T. 0.010 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

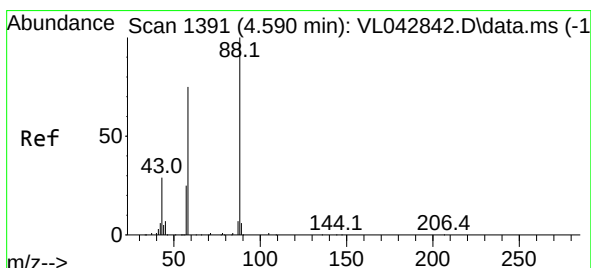
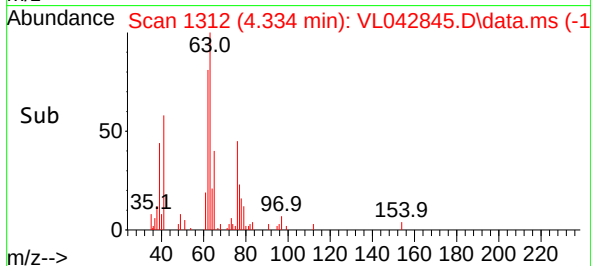
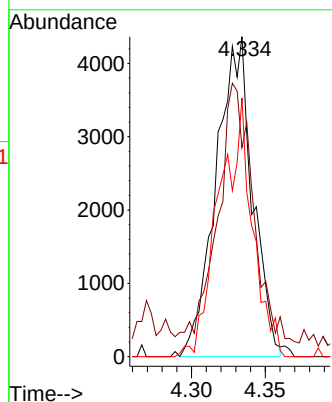
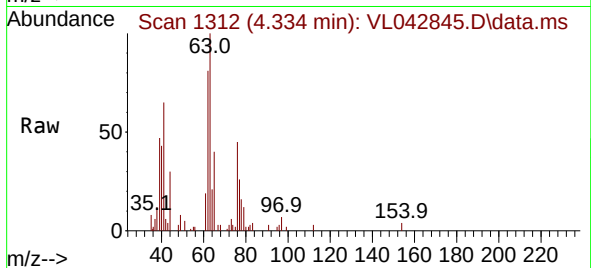
VSTDICC0.5

Tgt Ion: 63	Resp: 749
Ion Ratio	Lower Upper
63 100	
41 57.8	55.0 82.4
62 79.7	54.4 81.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#40

1,4-Dioxane

Concen: 0.577 ppbv m

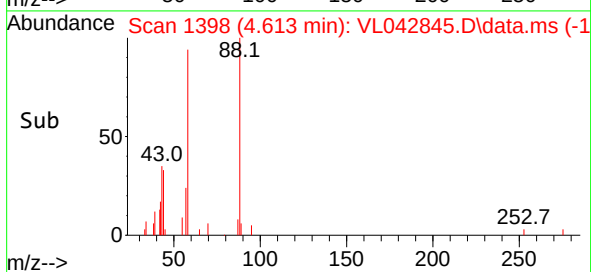
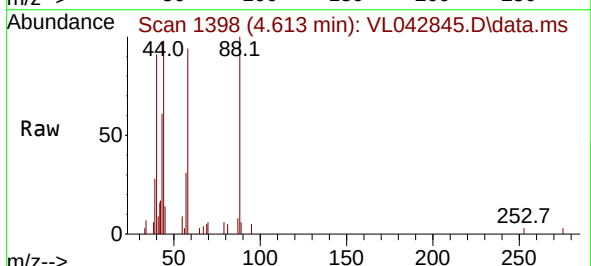
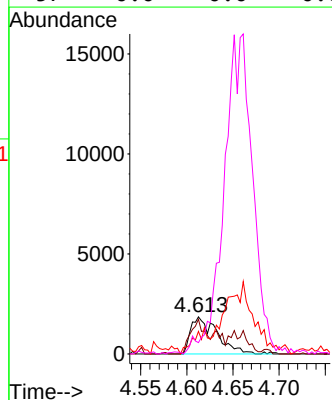
RT: 4.613 min Scan# 1398

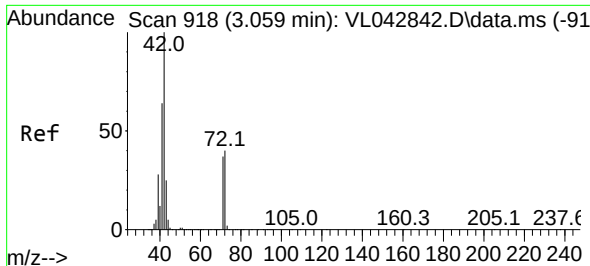
Delta R.T. 0.023 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

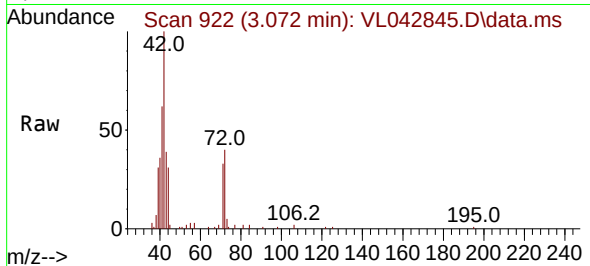
Tgt Ion: 88	Resp: 3743
Ion Ratio	Lower Upper
88 100	
58 118.4	53.8 80.6#
43 0.0	22.8 34.2#
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 0.525 ppbv
RT: 3.072 min Scan# 918
Delta R.T. 0.013 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

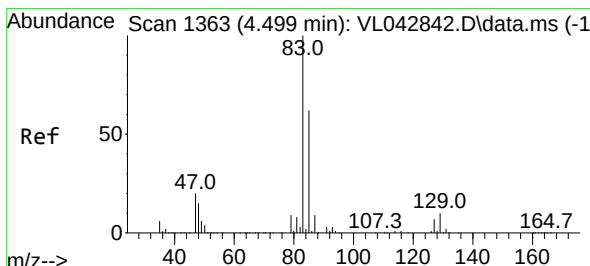
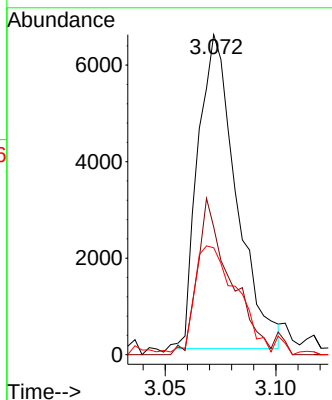
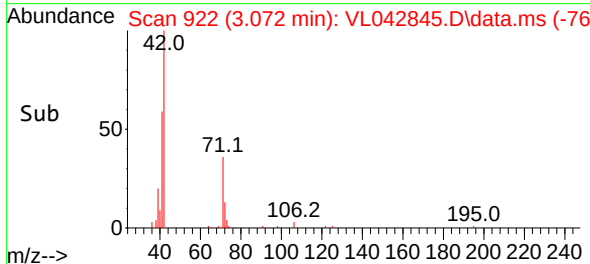
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 42 Resp: 782
Ion Ratio Lower Upper
42 100
72 44.5 32.6 48.8
71 42.0 30.0 45.0

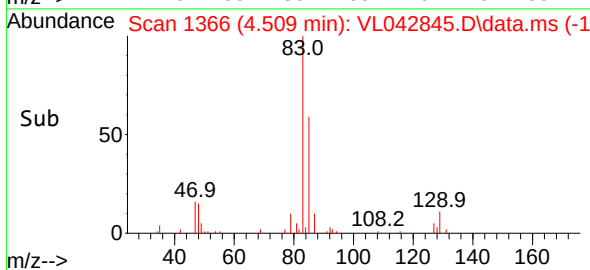
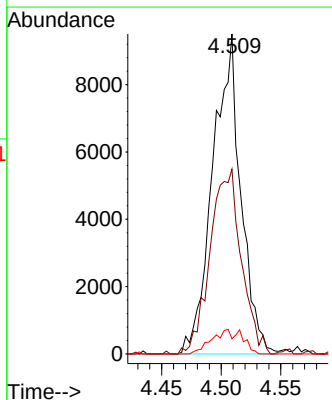
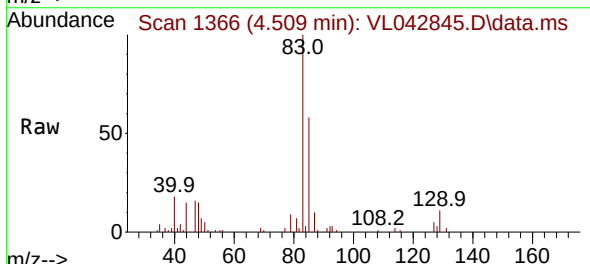
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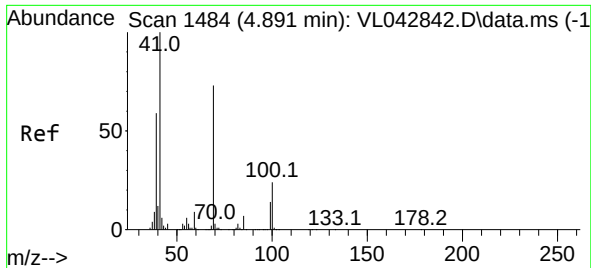
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#42
Bromodichloromethane
Concen: 0.527 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

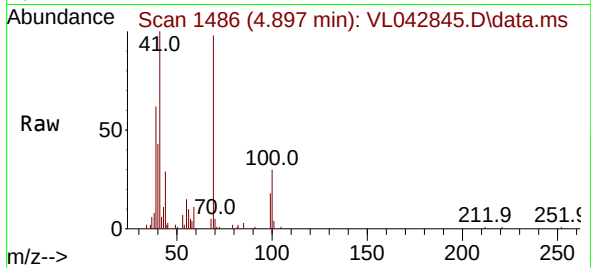
Tgt Ion: 83 Resp: 15580
Ion Ratio Lower Upper
83 100
85 57.7 49.8 74.8
127 4.7 5.8 8.6





#43
Methyl Methacrylate
Concen: 0.544 ppbv m
RT: 4.897 min Scan# 1413
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

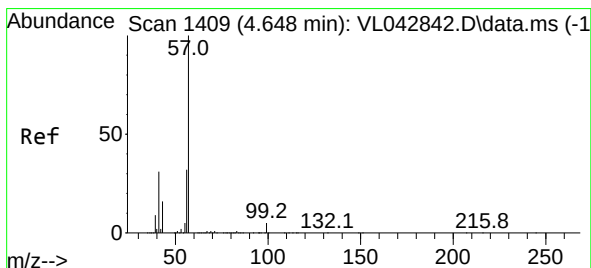
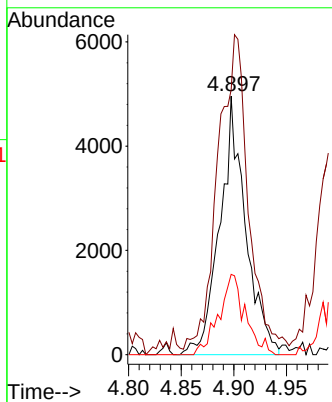
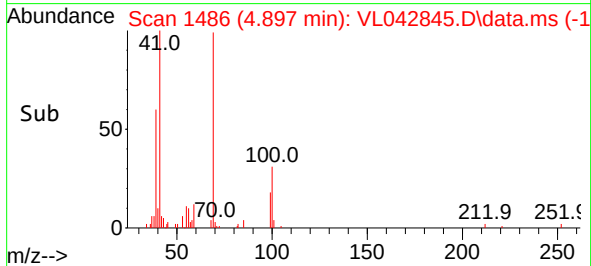
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



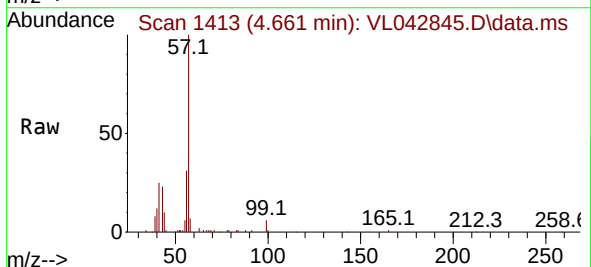
Tgt Ion: 69 Resp: 846
Ion Ratio Lower Upper
69 100
41 141.3 114.6 172.0
100 31.7 30.2 45.4

Manual Integrations
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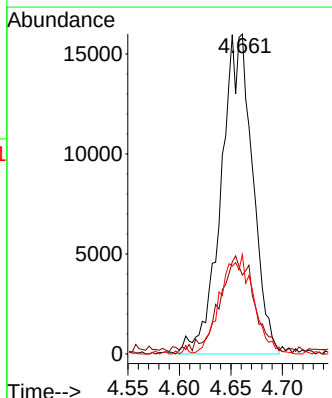
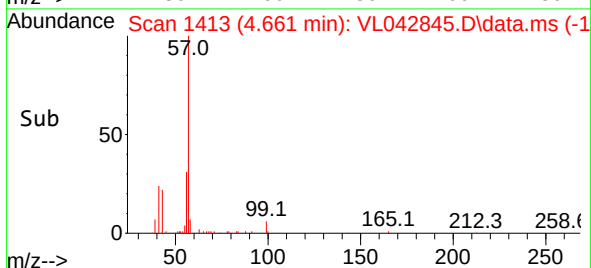
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

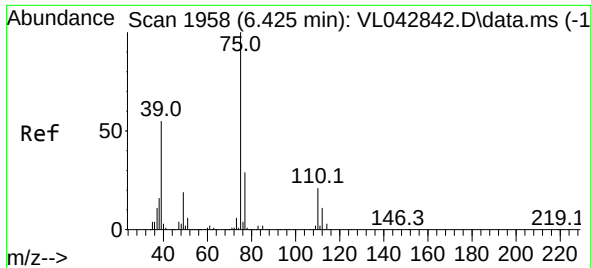


#44
2,2,4-Trimethylpentane
Concen: 0.537 ppbv m
RT: 4.661 min Scan# 1413
Delta R.T. 0.013 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



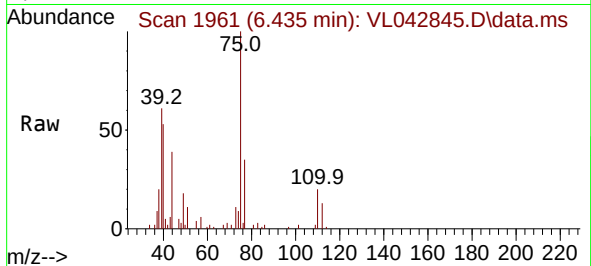
Tgt Ion: 57 Resp: 34237
Ion Ratio Lower Upper
57 100
41 32.2 24.8 37.2
56 0.0 25.5 38.3





#45
 t-1,3-Dichloropropene
 Concen: 0.505 ppbv m
 RT: 6.435 min Scan# 1958
 Delta R.T. 0.010 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

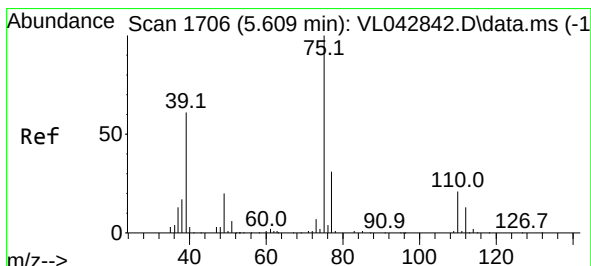
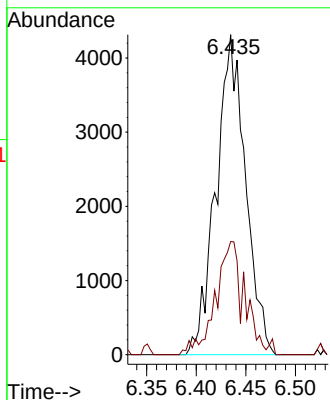
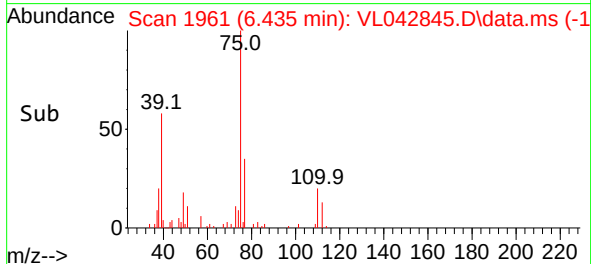
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion: 75 Resp: 891
 Ion Ratio Lower Upper
 75 100
 77 35.4 23.8 35.6

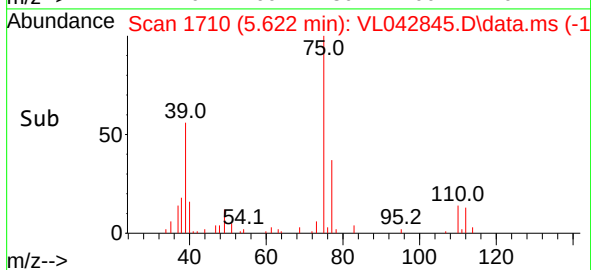
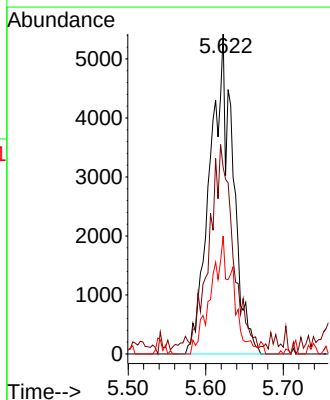
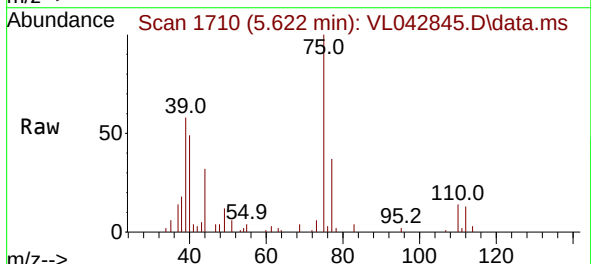
Manual Integrations
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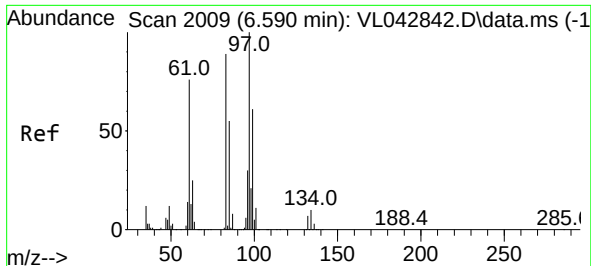
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#46
 cis-1,3-Dichloropropene
 Concen: 0.508 ppbv m
 RT: 5.622 min Scan# 1710
 Delta R.T. 0.013 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Tgt Ion: 75 Resp: 11259
 Ion Ratio Lower Upper
 75 100
 39 58.3 48.9 73.3
 77 36.9 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 0.534 ppbv m

RT: 6.603 min Scan# 2009

Delta R.T. 0.013 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

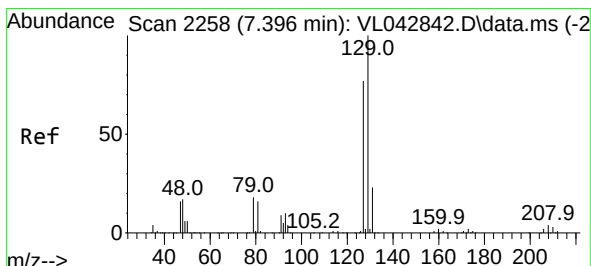
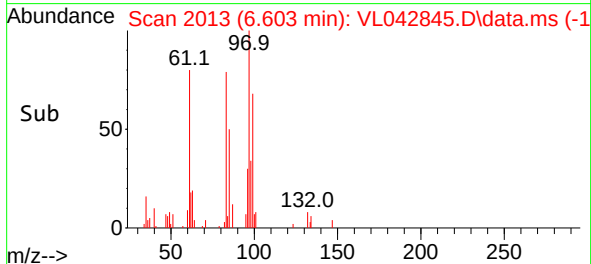
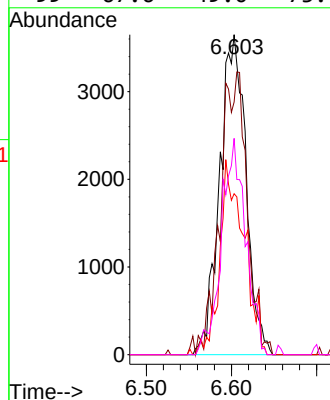
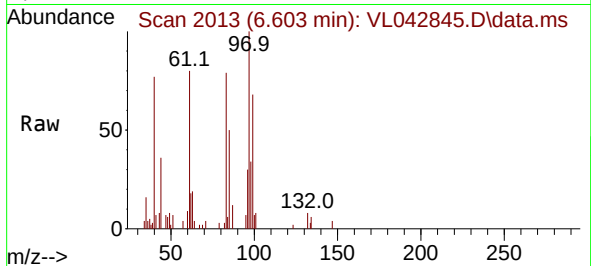
Tgt Ion: 97	Resp: 783
Ion Ratio	Lower Upper
97 100	
83 78.9	71.0 106.4
85 50.3	43.6 65.4
99 67.6	49.0 73.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#48

Dibromochloromethane

Concen: 0.497 ppbv

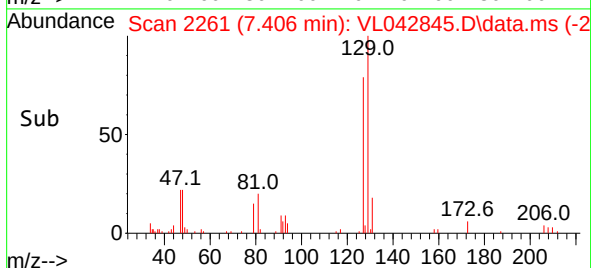
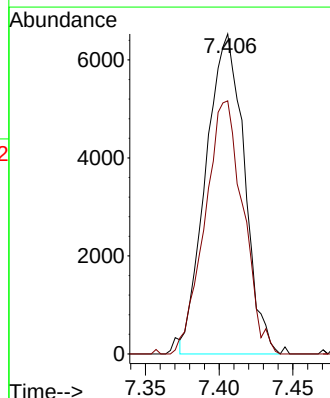
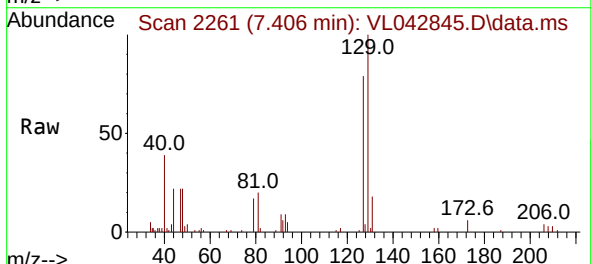
RT: 7.406 min Scan# 2261

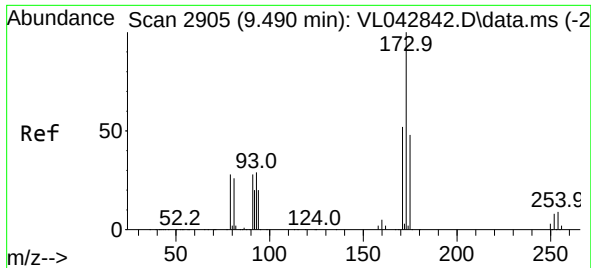
Delta R.T. 0.010 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

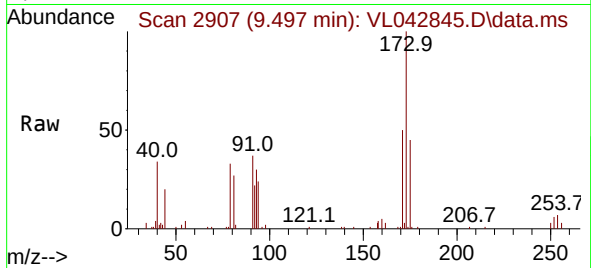
Tgt Ion:129	Resp: 11805
Ion Ratio	Lower Upper
129 100	
127 79.1	39.4 118.2





#49
Bromoform
Concen: 0.471 ppbv
RT: 9.497 min Scan# 2905
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

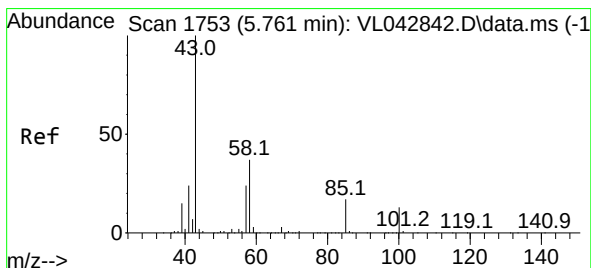
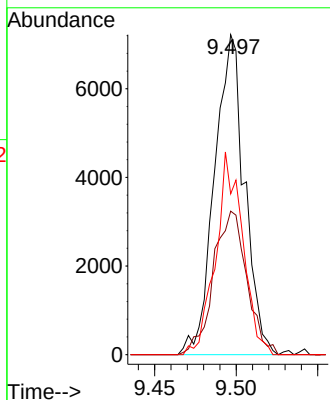
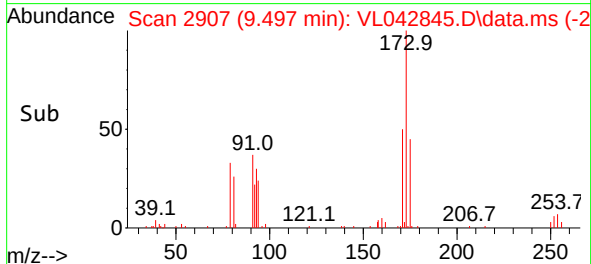
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



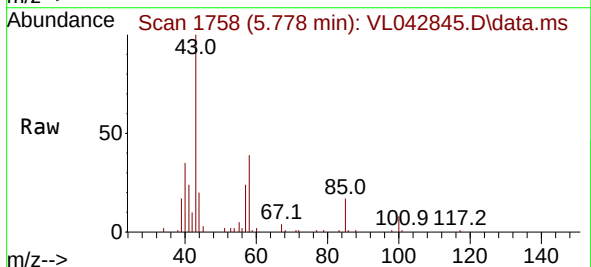
Tgt Ion: 173 Resp: 923
Ion Ratio Lower Upper
173 100
175 49.9 39.2 58.8
171 57.0 41.3 61.9

Manual Integrations
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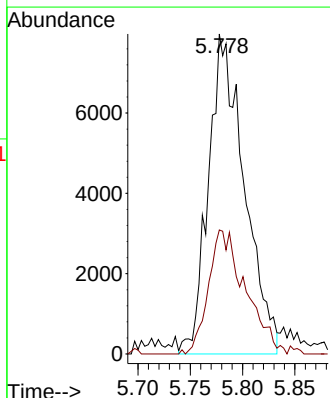
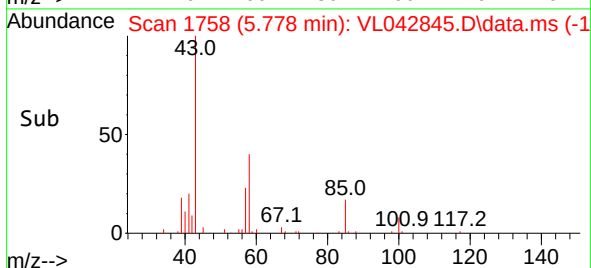
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

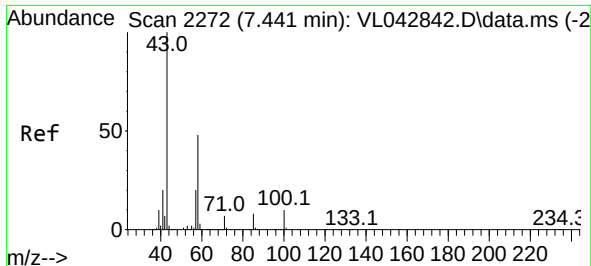


#50
4-Methyl-2-Pentanone
Concen: 0.524 ppbv m
RT: 5.778 min Scan# 1758
Delta R.T. 0.016 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



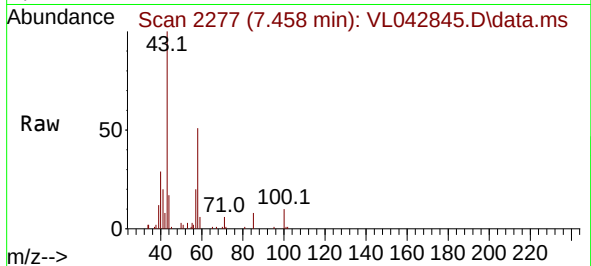
Tgt Ion: 43 Resp: 19028
Ion Ratio Lower Upper
43 100
58 40.4 29.8 44.8





#51
2-Hexanone
Concen: 0.503 ppbv
RT: 7.458 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

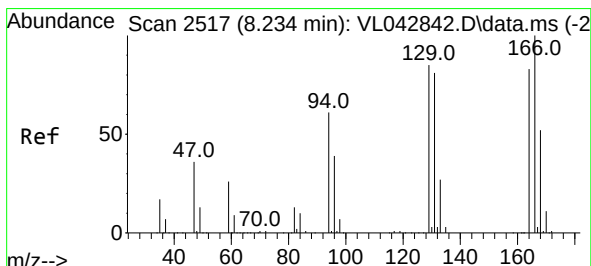
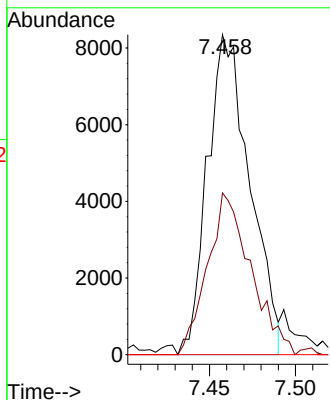
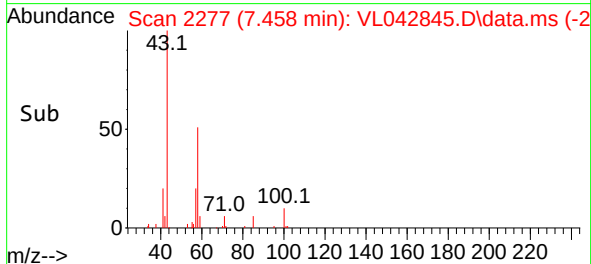
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 43 Resp: 14329
Ion Ratio Lower Upper
43 100
58 52.3 41.0 61.6
98 0.0 0.1 0.1

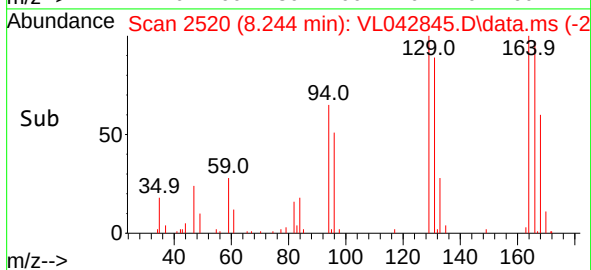
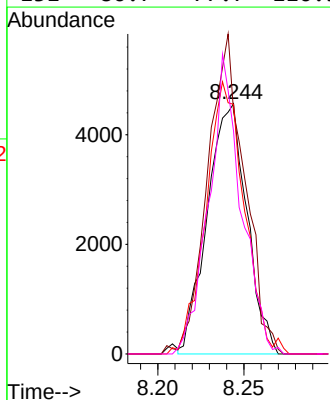
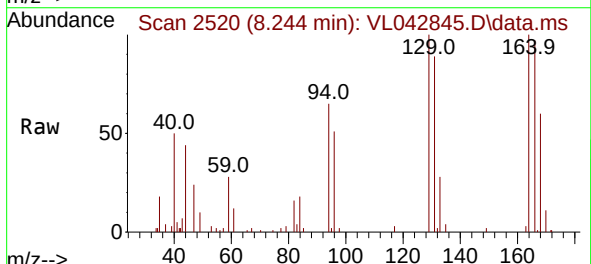
Manual Integrations
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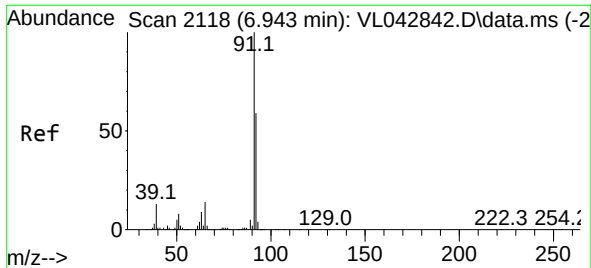
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#52
Tetrachloroethene
Concen: 0.531 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

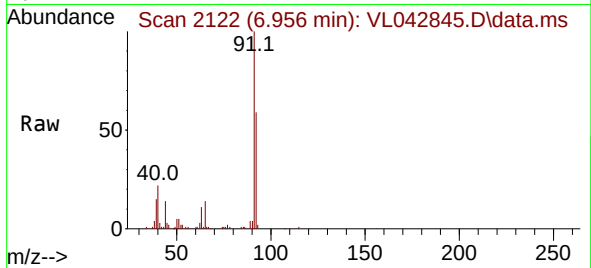
Tgt Ion:164 Resp: 7304
Ion Ratio Lower Upper
164 100
166 95.1 96.5 144.7#
129 98.0 81.8 122.6
131 86.7 77.7 116.5





#53
Toluene
Concen: 0.535 ppbv m
RT: 6.956 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

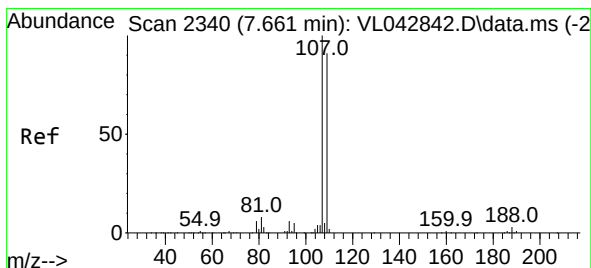
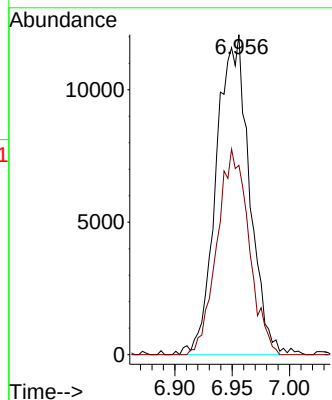
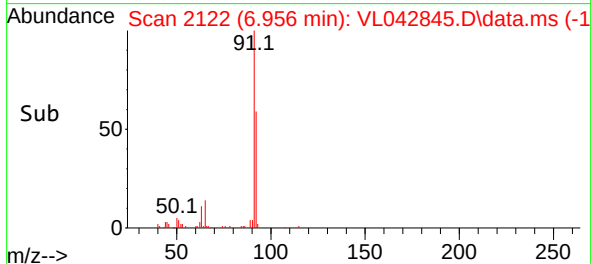
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



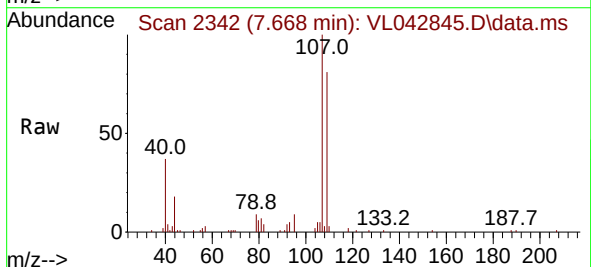
Tgt Ion: 91 Resp: 2415
Ion Ratio Lower Upper
91 100
92 62.1 47.8 71.6

Manual Integrations
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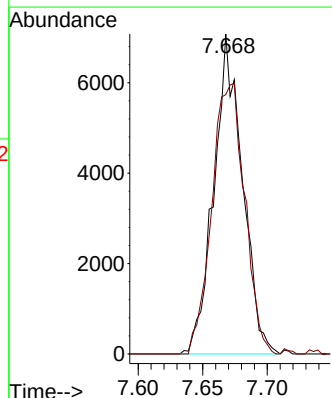
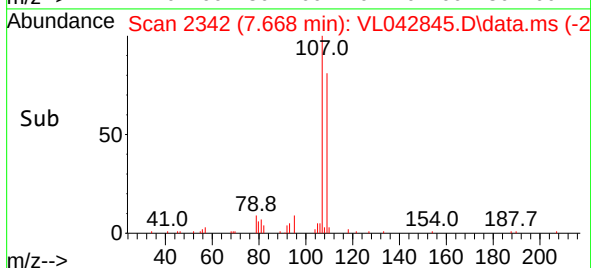
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

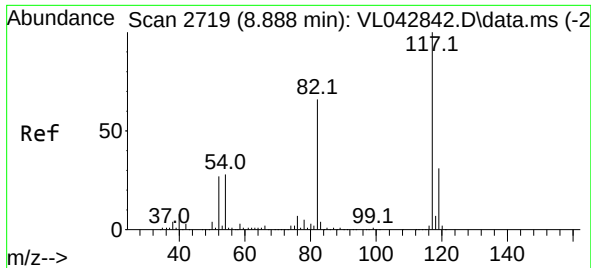


#54
1,2-Dibromoethane
Concen: 0.507 ppbv
RT: 7.668 min Scan# 2342
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



Tgt Ion:107 Resp: 10873
Ion Ratio Lower Upper
107 100
109 81.0 72.5 108.7





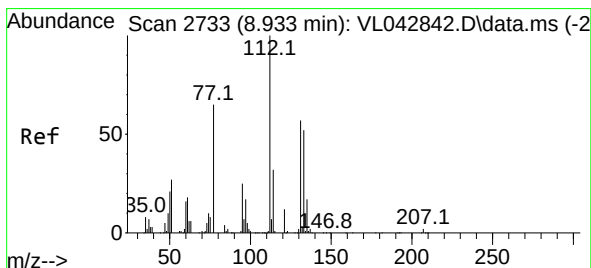
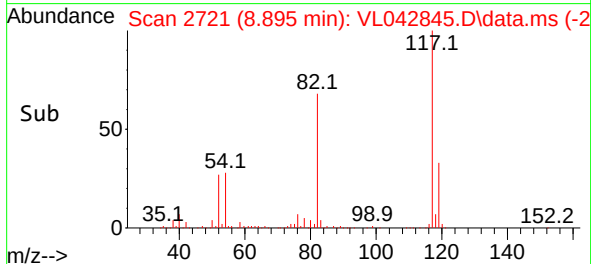
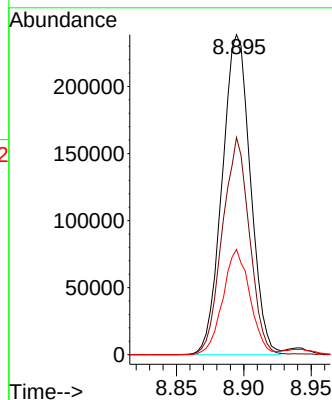
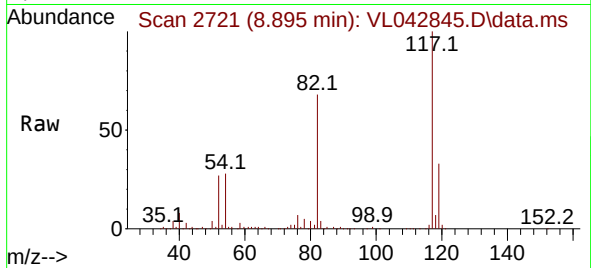
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2719
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:117 Resp: 34800
Ion Ratio Lower Upper
117 100
82 65.4 54.6 81.8
119 33.4 25.9 38.9

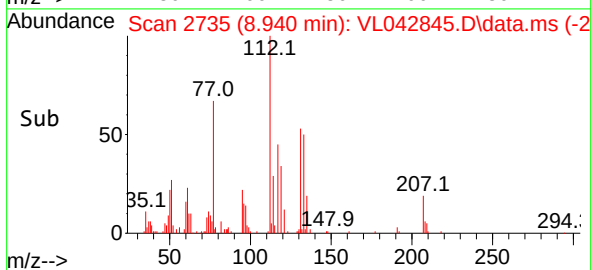
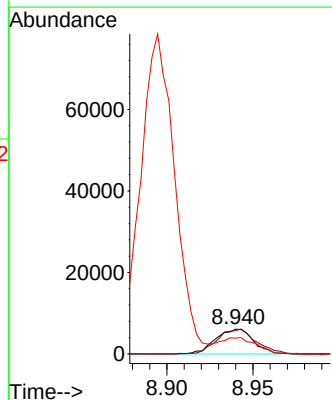
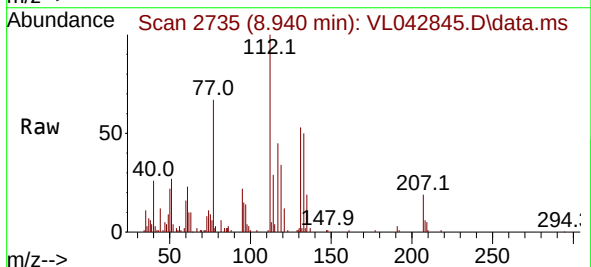
Manual Integrations
APPROVED

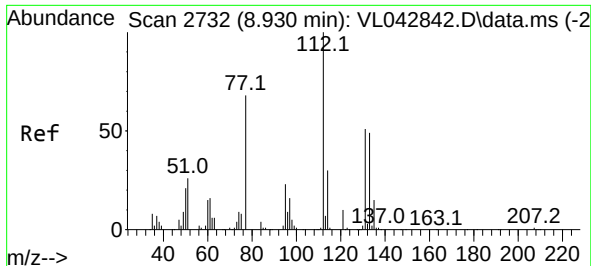
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 0.517 ppbv
RT: 8.940 min Scan# 2735
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:131 Resp: 9300
Ion Ratio Lower Upper
131 100
133 102.5 77.4 116.0
119 1250.4 51.2 76.8#





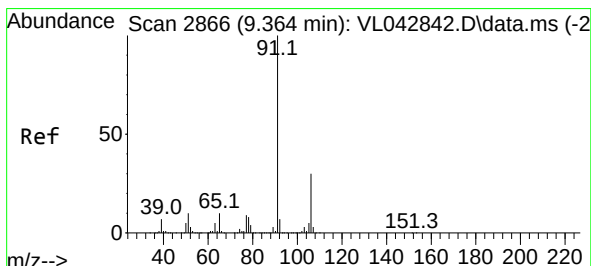
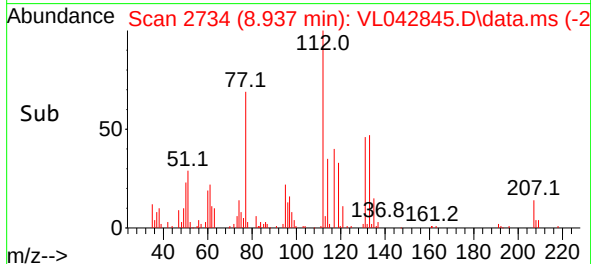
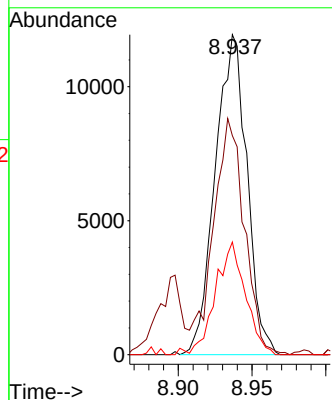
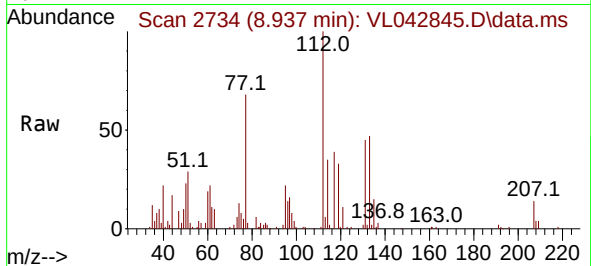
#57
Chlorobenzene
Concen: 0.539 ppbv
RT: 8.937 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 112 Resp: 1784
Ion Ratio Lower Upper
112 100
77 67.8 55.5 83.3
114 35.2 27.2 33.2

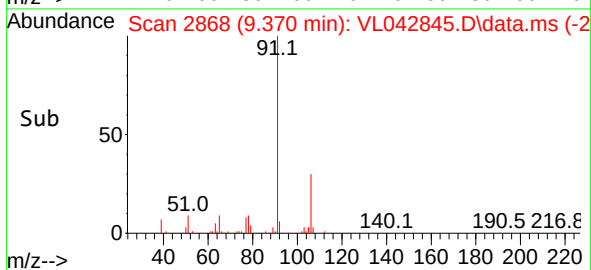
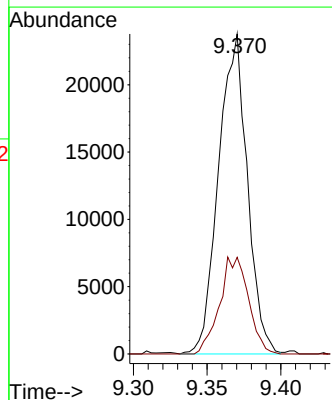
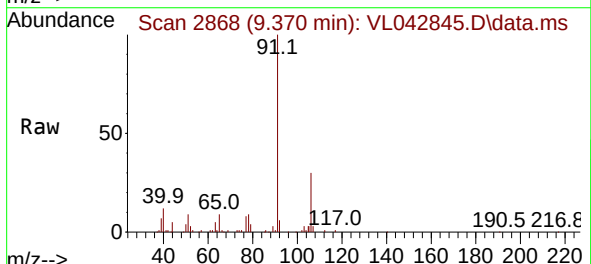
Manual Integrations
APPROVED

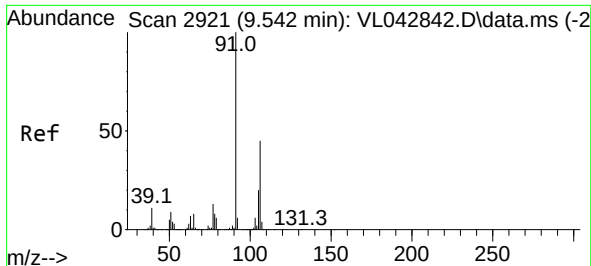
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#58
Ethyl Benzene
Concen: 0.525 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 32261
Ion Ratio Lower Upper
91 100
106 30.2 23.9 35.9





#59

m/p-Xylene

Concen: 1.045 ppbv m

RT: 9.561 min Scan# 2921

Delta R.T. 0.019 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 91 Resp: 50372

Ion Ratio Lower Upper

91 100

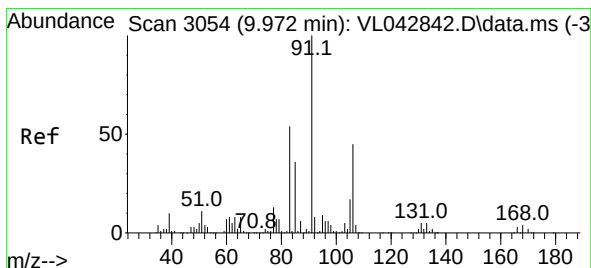
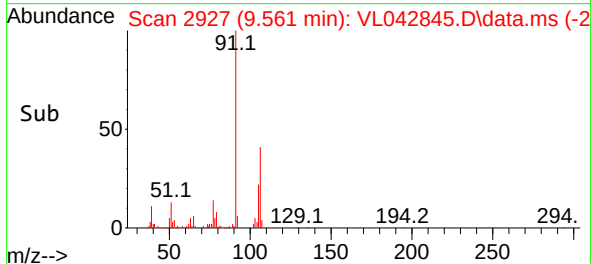
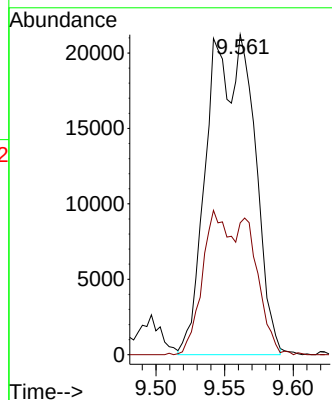
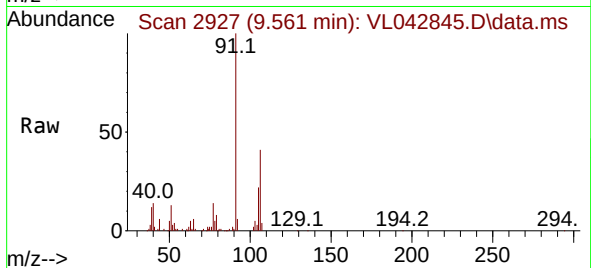
106 46.9 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#60

o-Xylene

Concen: 0.551 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. 0.007 min

Lab File: VL042845.D

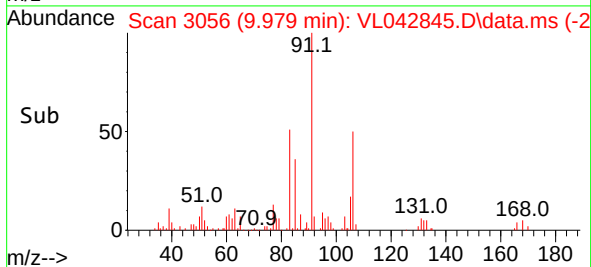
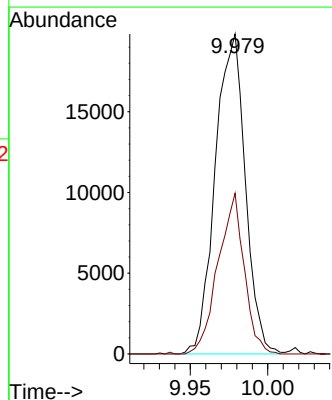
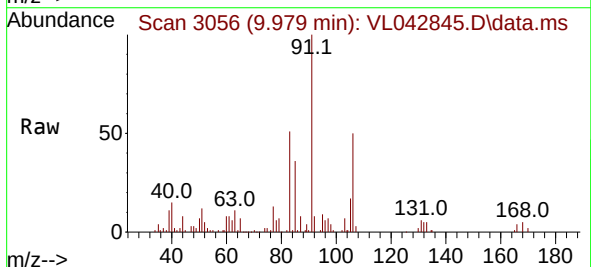
Acq: 13 Aug 2025 10:17

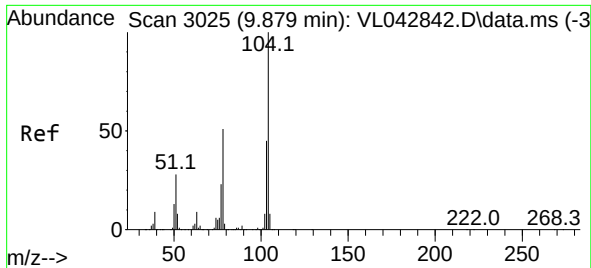
Tgt Ion: 91 Resp: 26662

Ion Ratio Lower Upper

91 100

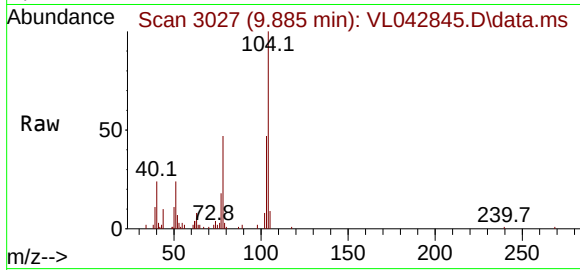
106 43.8 21.8 65.4





#61
Styrene
Concen: 0.546 ppbv
RT: 9.885 min Scan# 3025
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

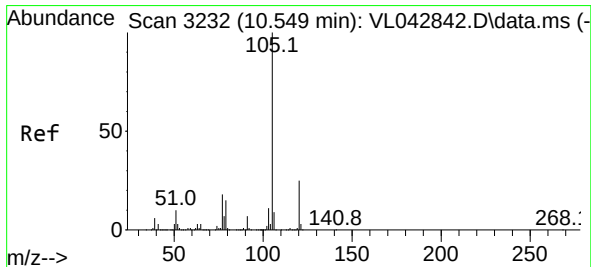
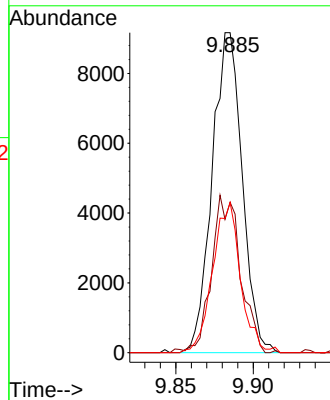
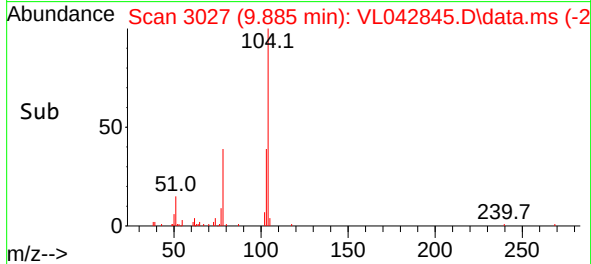
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



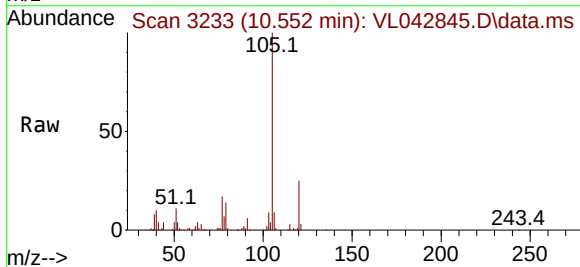
Tgt Ion:104 Resp: 12379
Ion Ratio Lower Upper
104 100
78 47.4 40.6 61.0
103 43.4 37.7 56.5

Manual Integrations
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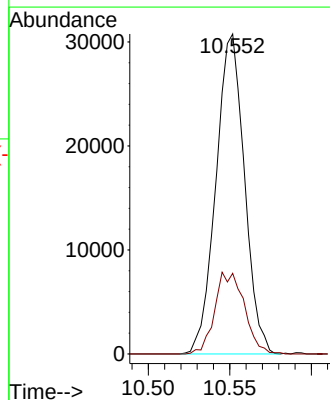
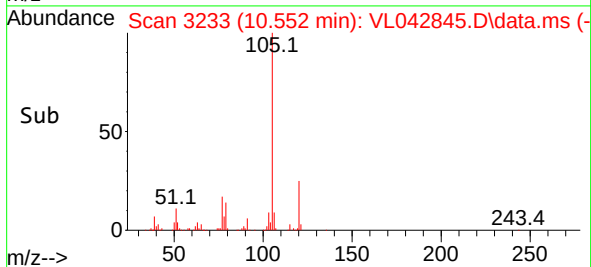
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

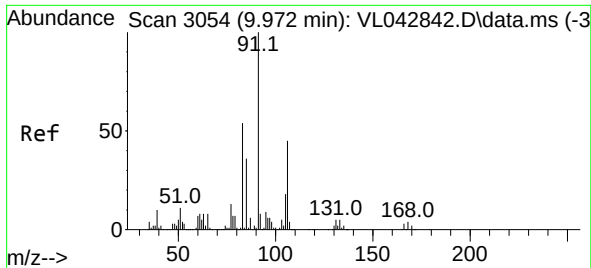


#62
Isopropylbenzene
Concen: 0.529 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



Tgt Ion:105 Resp: 37401
Ion Ratio Lower Upper
105 100
120 26.5 20.6 30.8





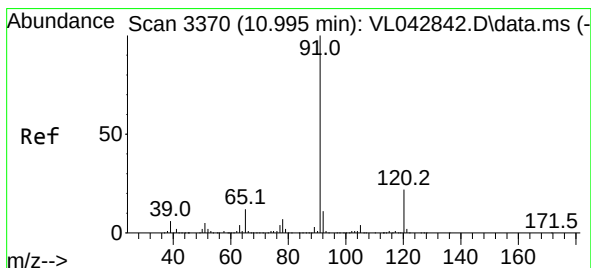
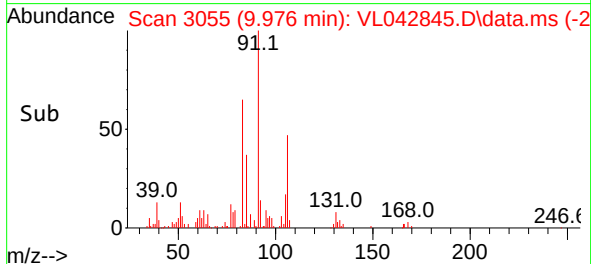
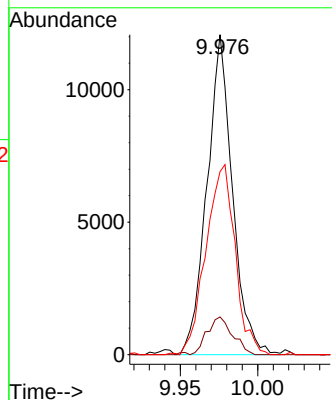
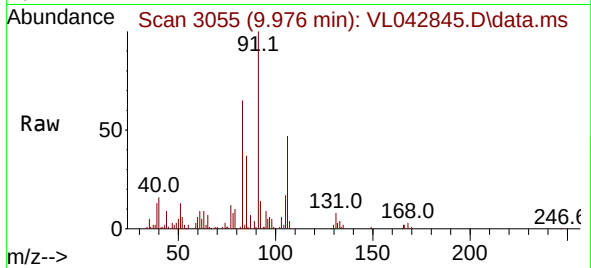
#63
1,1,2,2-Tetrachloroethane
Concen: 0.523 ppbv
RT: 9.976 min Scan# 3054
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 83 Resp: 13828
Ion Ratio Lower Upper
83 100
131 12.0 4.8 14.3
85 68.3 32.3 96.8

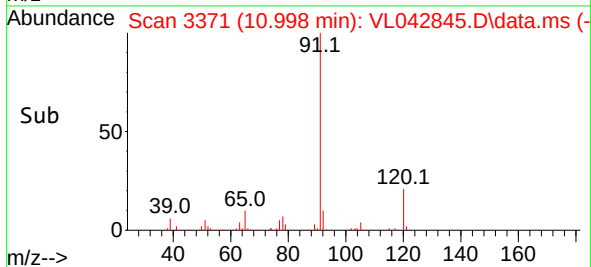
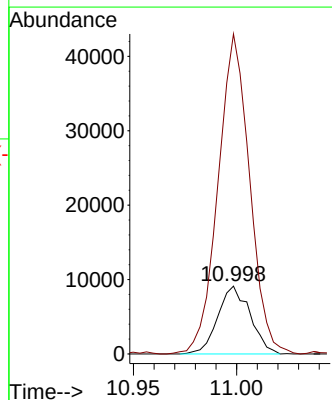
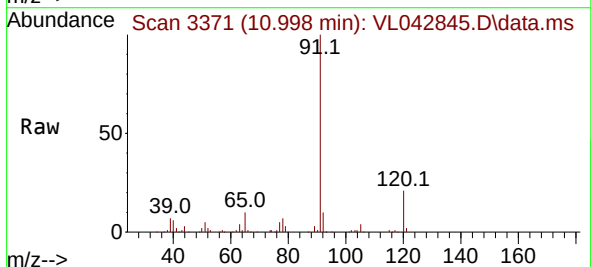
Manual Integrations
APPROVED

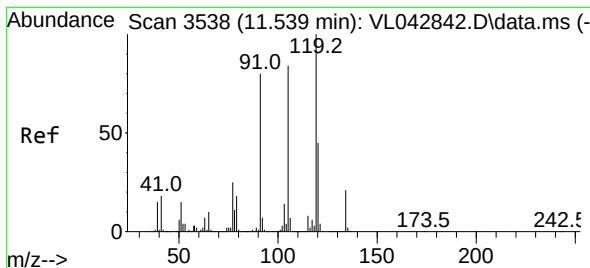
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#64
n-propylbenzene
Concen: 0.550 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:120 Resp: 9922
Ion Ratio Lower Upper
120 100
91 463.3 375.8 563.6





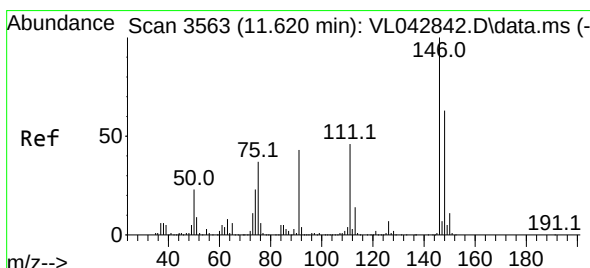
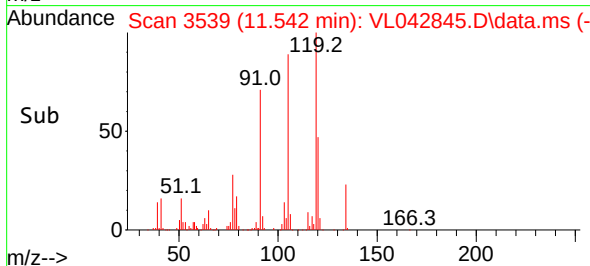
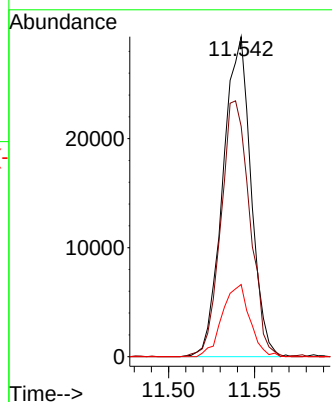
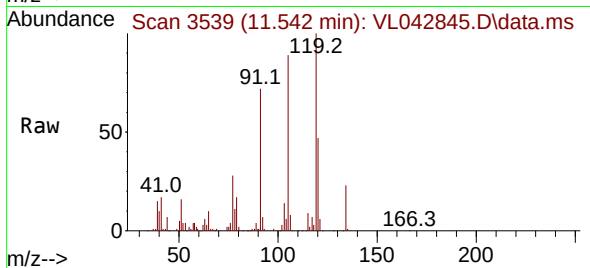
#65
tert-Butylbenzene
Concen: 0.532 ppbv
RT: 11.542 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 119 Resp: 3318
Ion Ratio Lower Upper
119 100
91 82.8 63.9 95.9
134 22.1 17.0 25.4

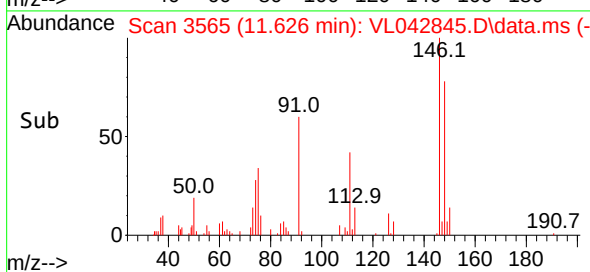
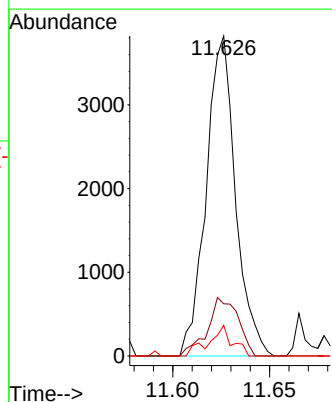
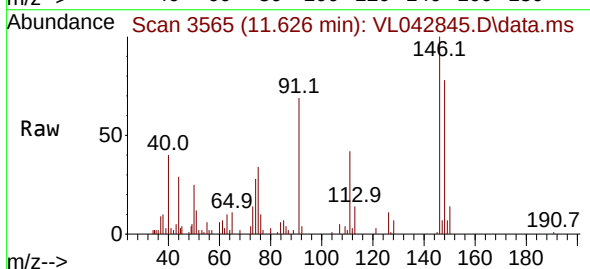
Manual Integrations
APPROVED

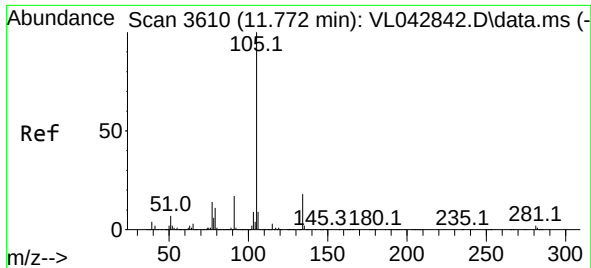
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#66
Benzyl Chloride
Concen: 0.510 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

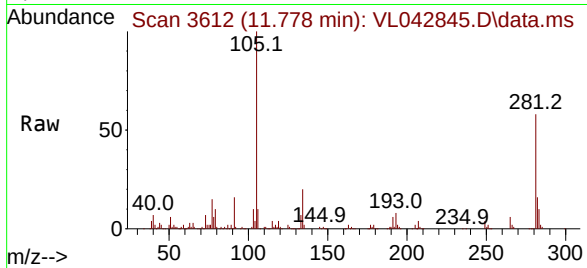
Tgt Ion: 91 Resp: 4039
Ion Ratio Lower Upper
91 100
126 19.0 14.2 21.4
128 7.6 5.0 7.6#





#67
 sec-Butylbenzene
 Concen: 0.530 ppbv
 RT: 11.778 min Scan# 3612
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

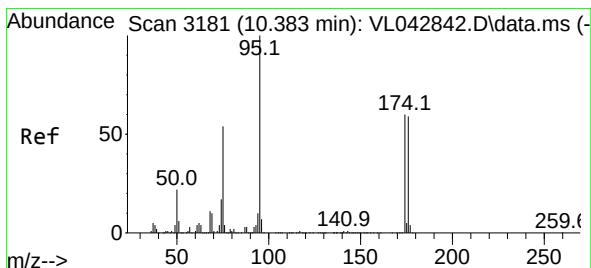
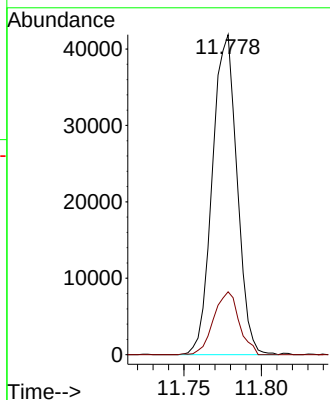
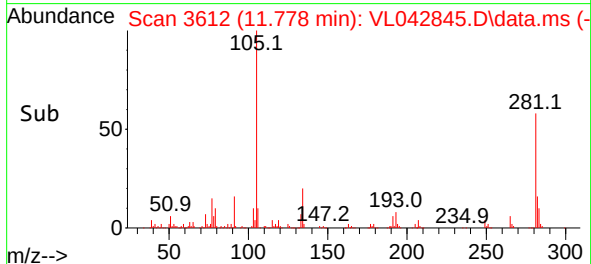
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



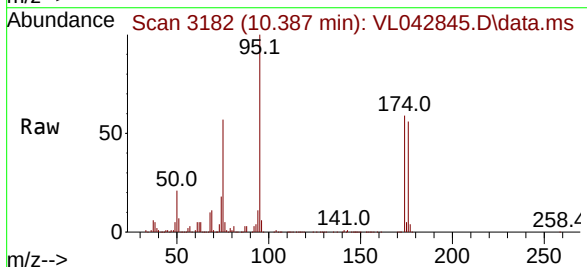
Tgt Ion: 105 Resp: 4643
 Ion Ratio Lower Upper
 105 100
 134 20.3 14.9 22.3

Manual Integrations
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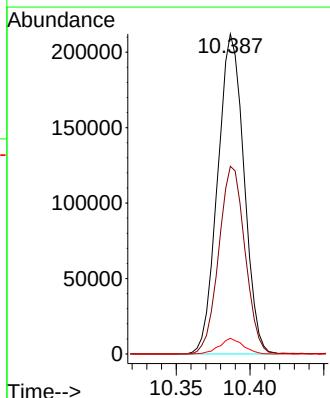
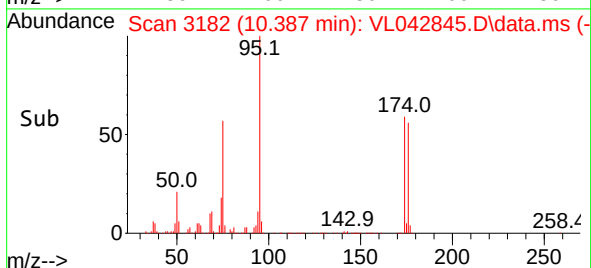
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

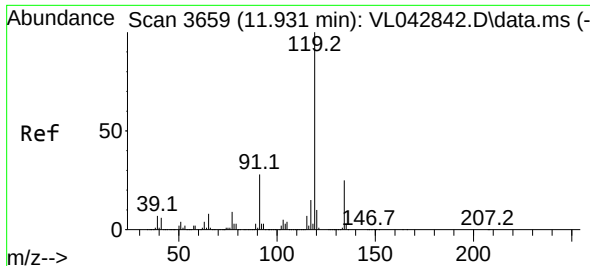


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.064 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17



Tgt Ion: 95 Resp: 262663
 Ion Ratio Lower Upper
 95 100
 174 58.8 48.4 72.6
 175 4.4 3.8 5.8





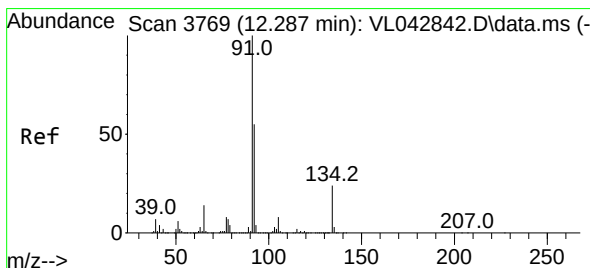
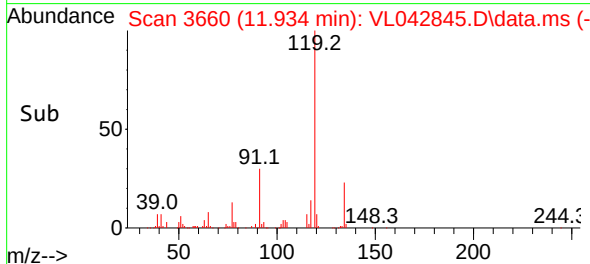
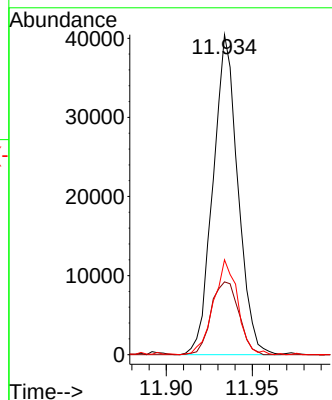
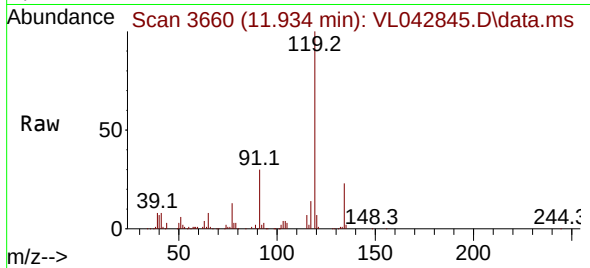
#69
p-Isopropyltoluene
Concen: 0.541 ppbv
RT: 11.934 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:119 Resp: 40680
Ion Ratio Lower Upper
119 100
134 25.4 20.6 30.8
91 29.0 22.6 34.0

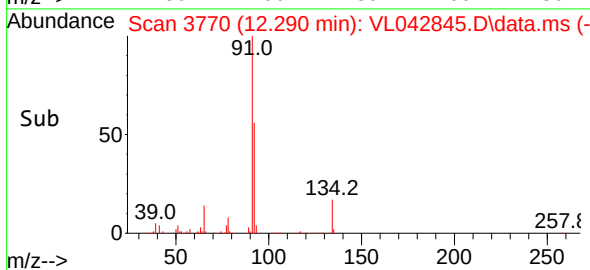
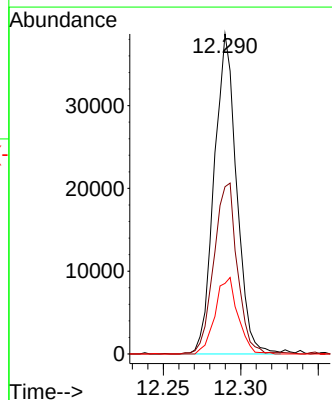
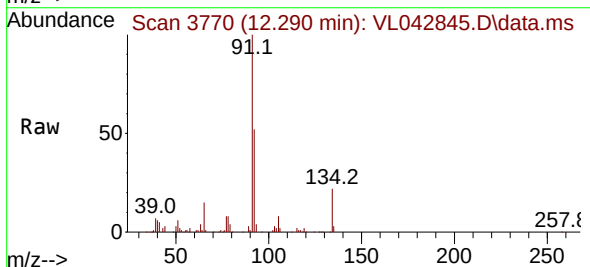
Manual Integrations
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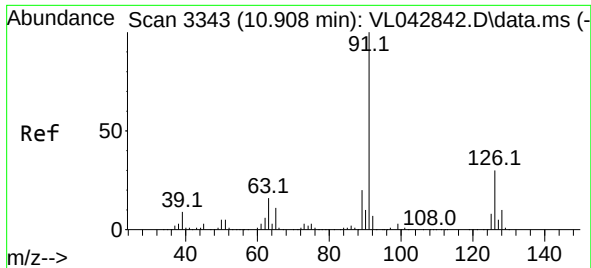
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#70
n-Butylbenzene
Concen: 0.521 ppbv
RT: 12.290 min Scan# 3770
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 38867
Ion Ratio Lower Upper
91 100
92 56.1 44.6 66.8
134 24.2 19.0 28.4





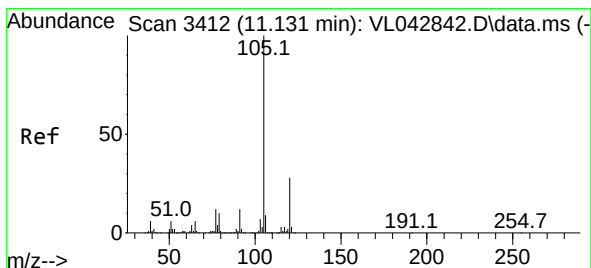
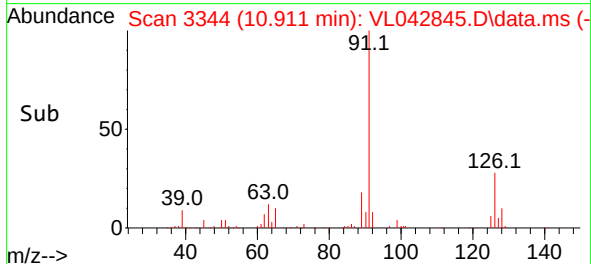
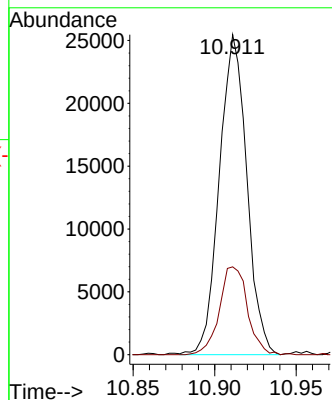
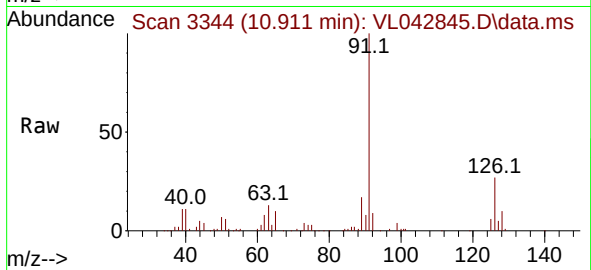
#71
2-Chlorotoluene
Concen: 0.541 ppbv
RT: 10.911 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 29730
Ion Ratio Lower Upper
91 100
126 28.2 12.0 47.8

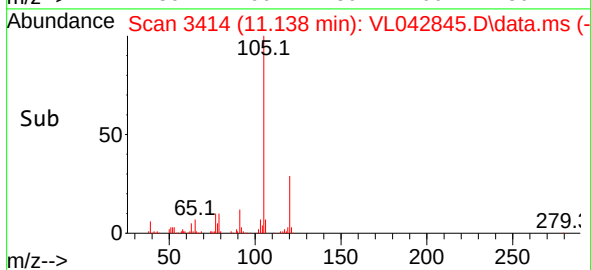
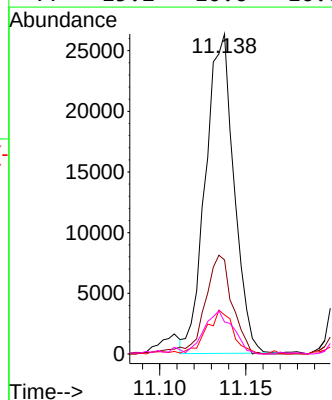
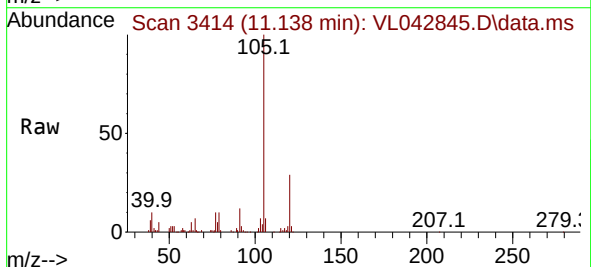
Manual Integrations
APPROVED

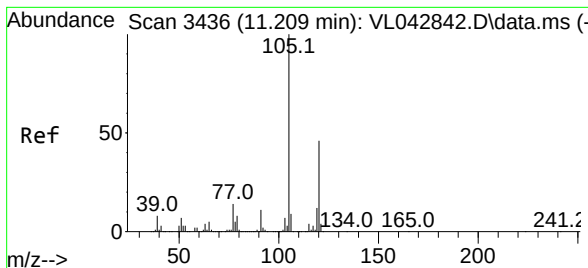
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#72
4-Ethyltoluene
Concen: 0.515 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:105 Resp: 30234
Ion Ratio Lower Upper
105 100
120 30.5 23.4 35.2
91 13.8 9.8 14.6
77 15.2 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 0.540 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 2694

Ion Ratio Lower Upper

105 100

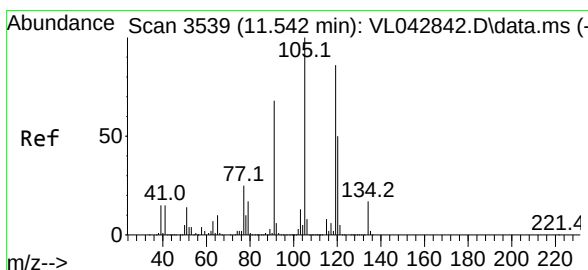
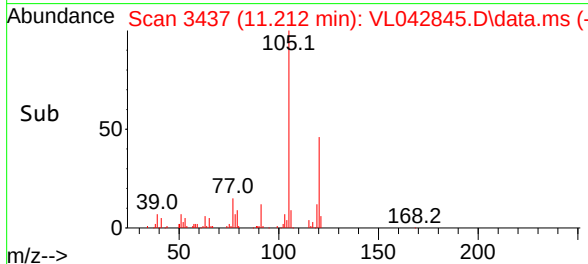
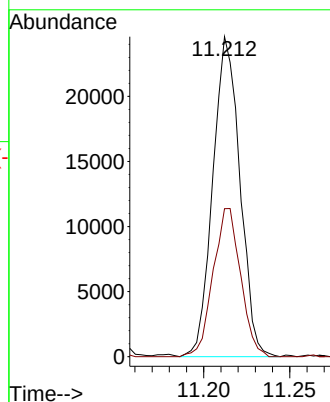
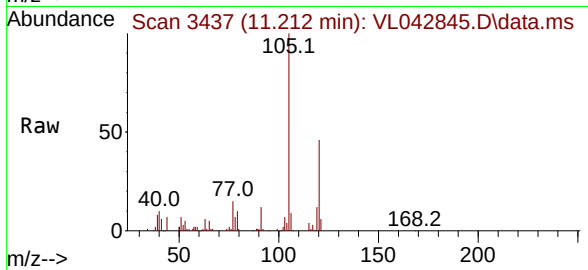
120 46.2 36.6 54.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.543 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Tgt Ion:105 Resp: 29750

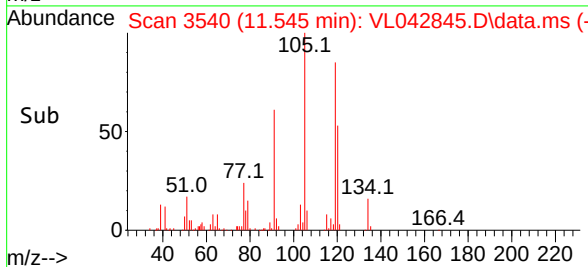
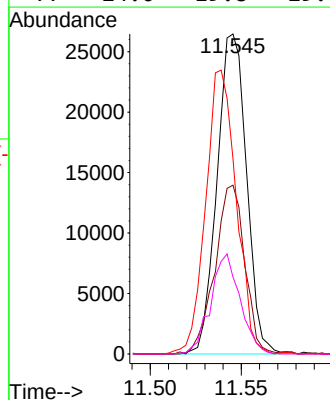
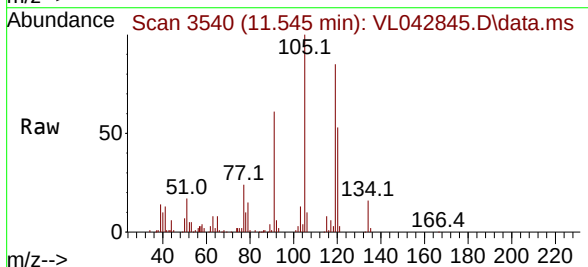
Ion Ratio Lower Upper

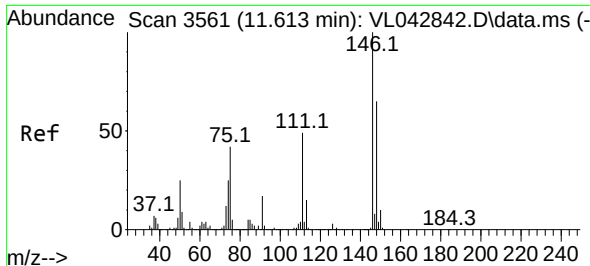
105 100

120 52.4 39.8 59.6

91 60.6 54.2 81.4

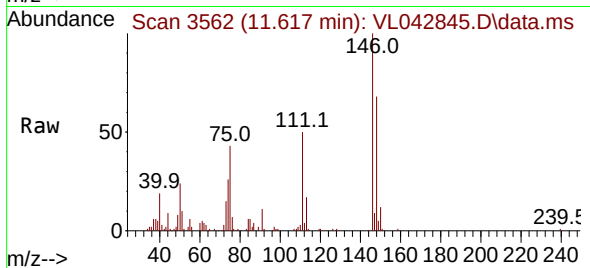
77 24.0 19.8 29.6





#75
1,3-Dichlorobenzene
Concen: 0.524 ppbv
RT: 11.617 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

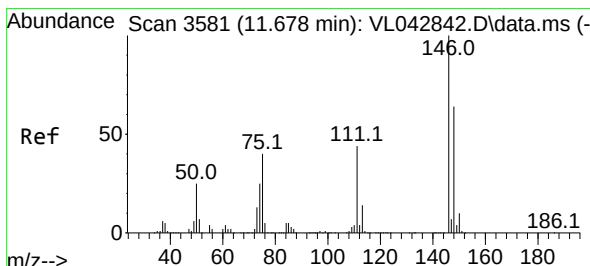
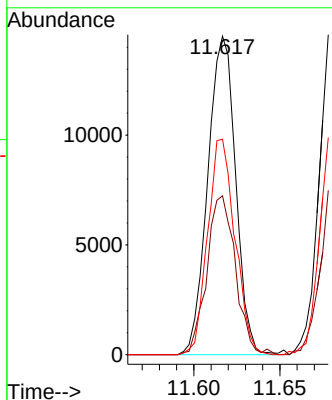
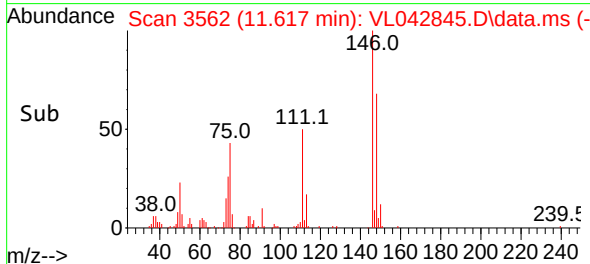
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



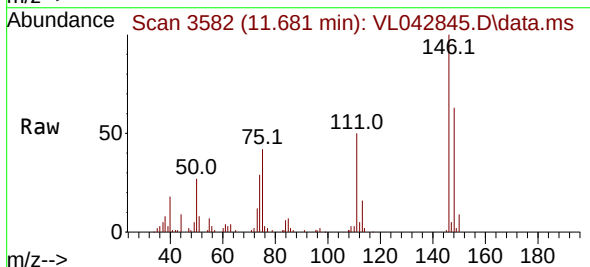
Tgt Ion:146 Resp: 1631
Ion Ratio Lower Upper
146 100
111 51.2 23.9 71.7
148 66.5 31.4 94.0

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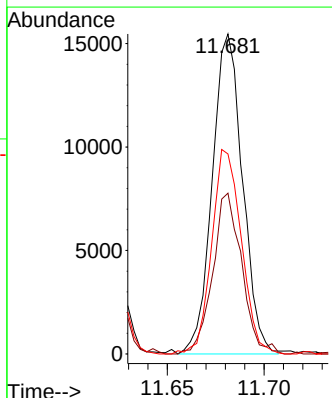
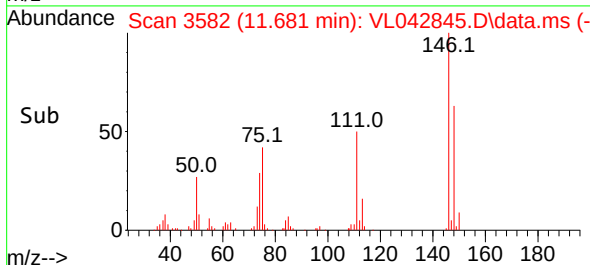
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

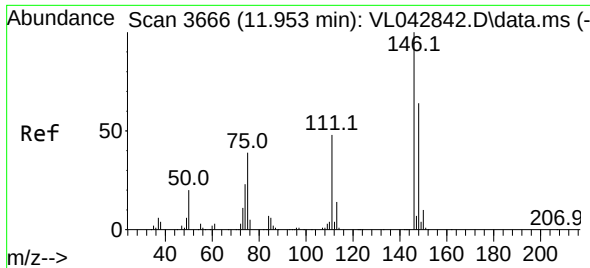


#76
1,4-Dichlorobenzene
Concen: 0.533 ppbv
RT: 11.681 min Scan# 3582
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



Tgt Ion:146 Resp: 16803
Ion Ratio Lower Upper
146 100
111 48.3 22.7 68.1
148 62.7 31.8 95.3





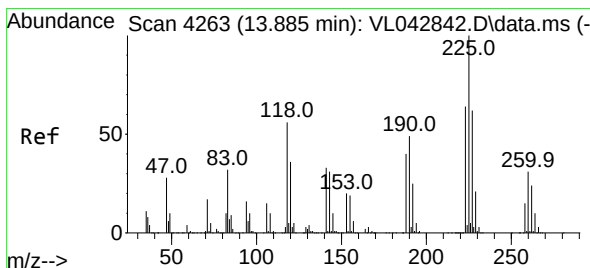
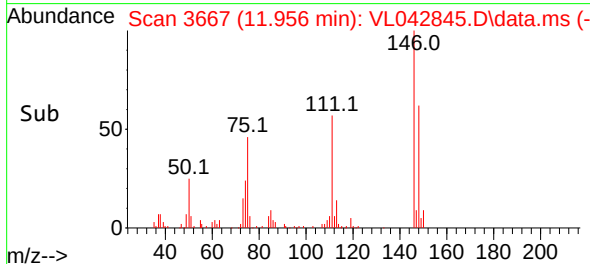
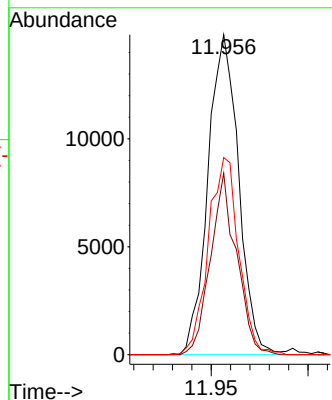
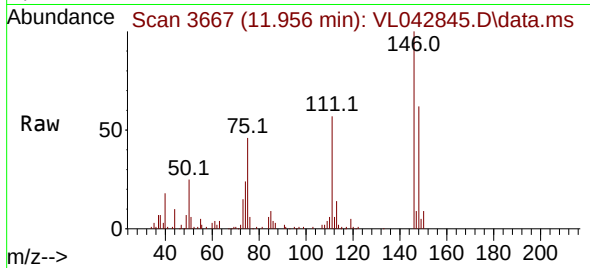
#77
1,2-Dichlorobenzene
Concen: 0.535 ppbv
RT: 11.956 min Scan# 3667
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:146 Resp: 16300
Ion Ratio Lower Upper
146 100
111 48.2 24.6 74.0
148 61.1 32.0 96.0

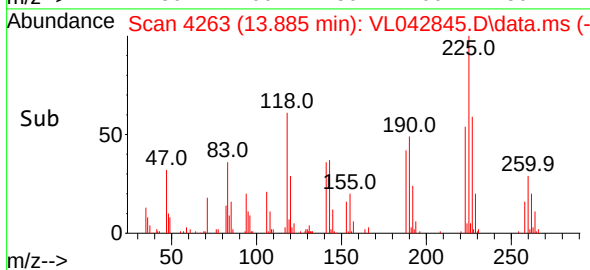
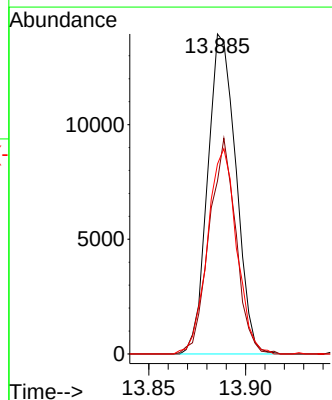
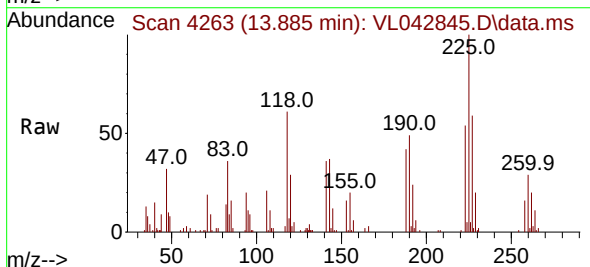
Manual Integrations
APPROVED

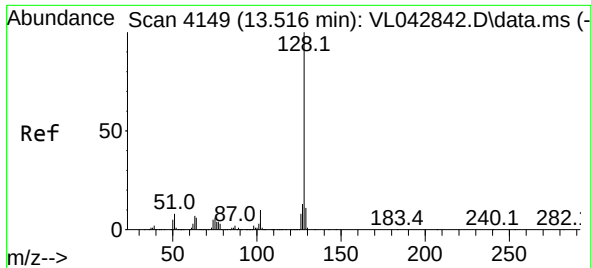
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#78
Hexachloro-1,3-Butadiene
Concen: 0.567 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

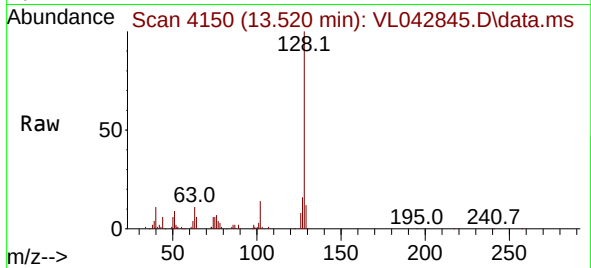
Tgt Ion:225 Resp: 14165
Ion Ratio Lower Upper
225 100
223 63.7 51.4 77.2
227 66.2 51.9 77.9





#79
Naphthalene
Concen: 0.491 ppbv
RT: 13.520 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

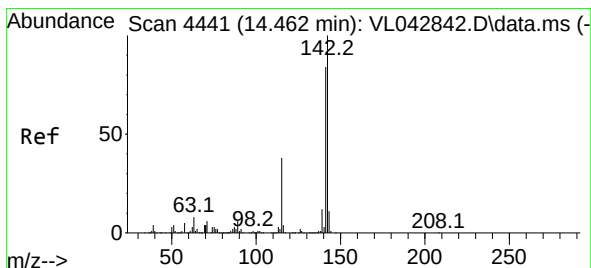
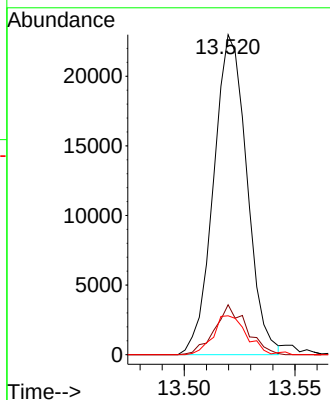
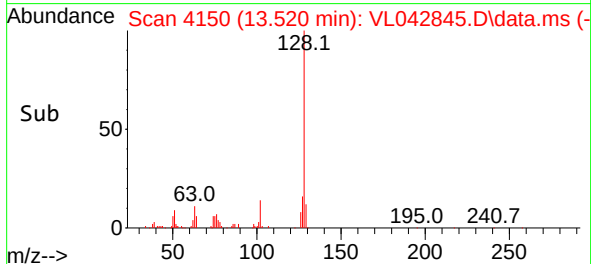
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



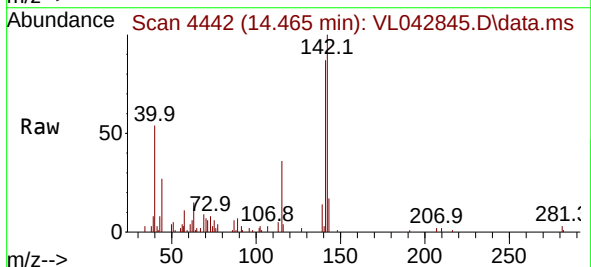
Tgt Ion:128 Resp: 24050
Ion Ratio Lower Upper
128 100
127 15.6 10.6 16.0
129 12.2 8.9 13.3

Manual Integrations
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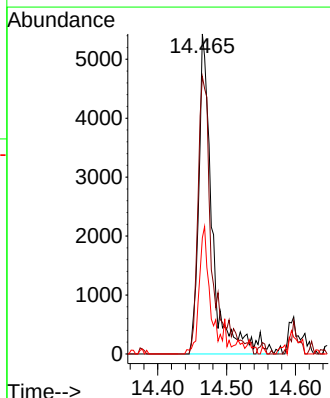
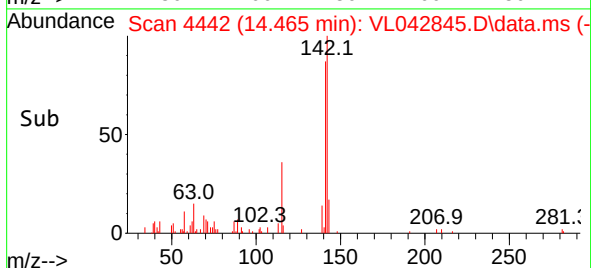
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

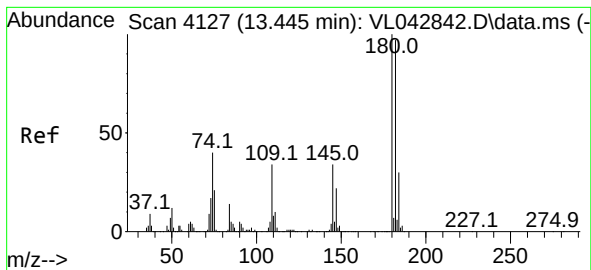


#80
Naphthalene,2-methyl-
Concen: 0.405 ppbv
RT: 14.465 min Scan# 4442
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17



Tgt Ion:142 Resp: 7482
Ion Ratio Lower Upper
142 100
141 90.9 67.0 100.6
115 38.5 30.9 46.3





#81

1,2,4-Trichlorobenzene

Concen: 0.434 ppbv

RT: 13.449 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042845.D

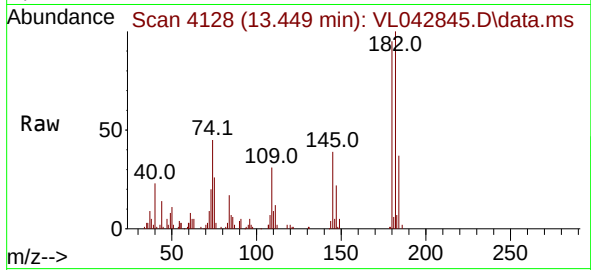
Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

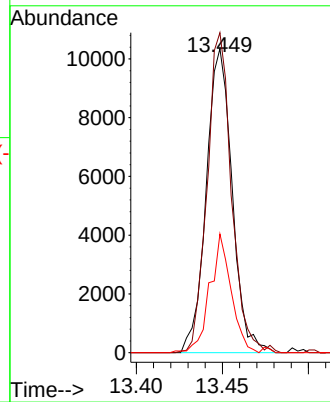
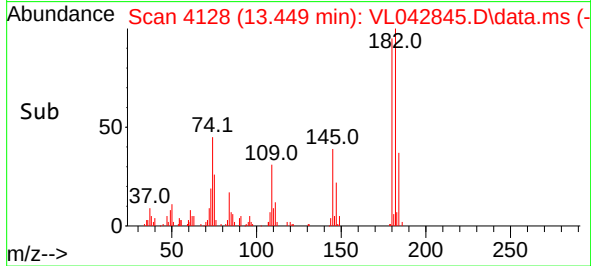


Tgt Ion:180	Resp:	1084
Ion Ratio	Lower	Upper
180	100	
182	99.1	76.9 115.3
184	32.6	24.5 36.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



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

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 14 2025
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Manual Integrations
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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	2.790	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						
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

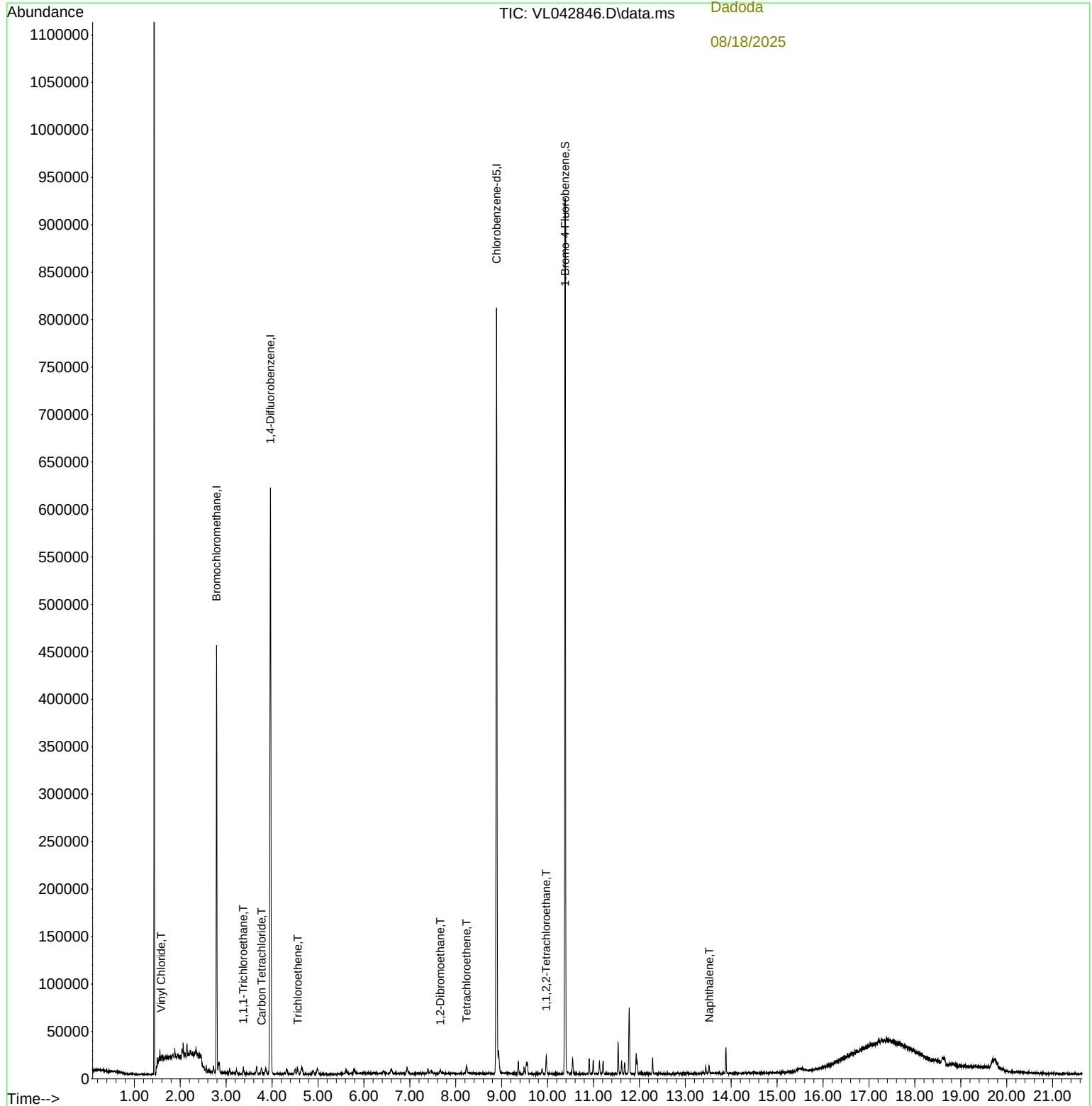
Manual Integrations
APPROVED

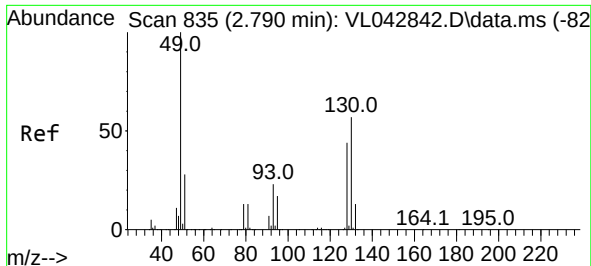
Reviewed By :Semsettin
Yesilyurt

08/14/2025
Supervised By :Mahesh
Dadoda

08/18/2025

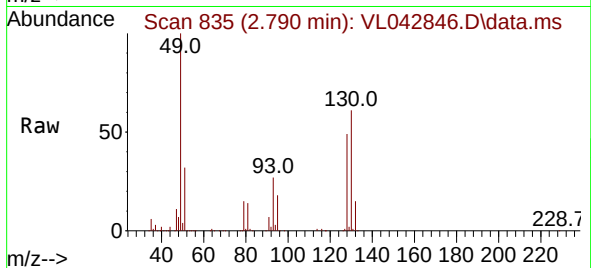
Quant Time: Aug 14 01:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



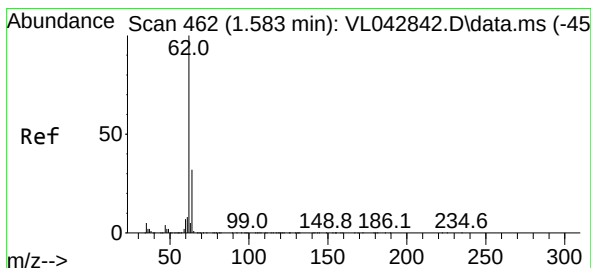
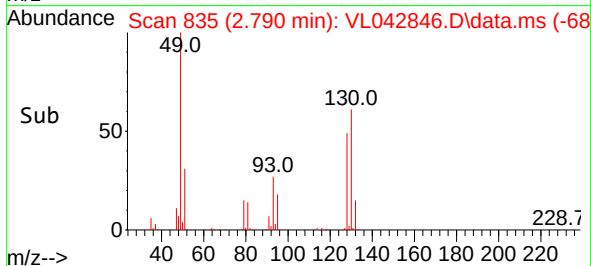
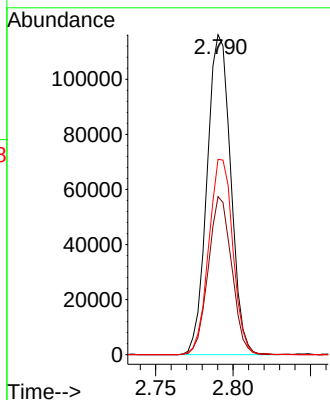
Tgt Ion: 49 Resp: 12371
Ion Ratio Lower Upper
49 100
128 48.6 23.7 71.1
130 62.1 30.6 91.6

Manual Integrations
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Reviewed By :Semsettin
Yesilyurt

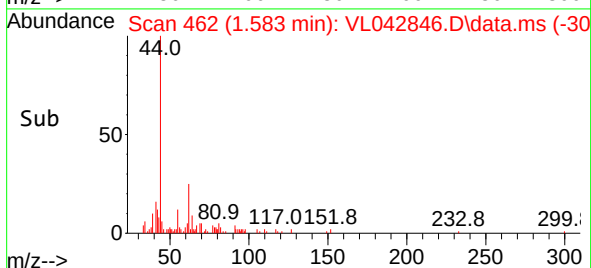
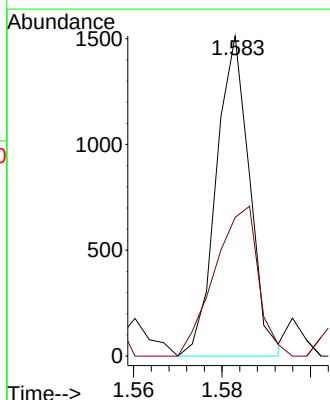
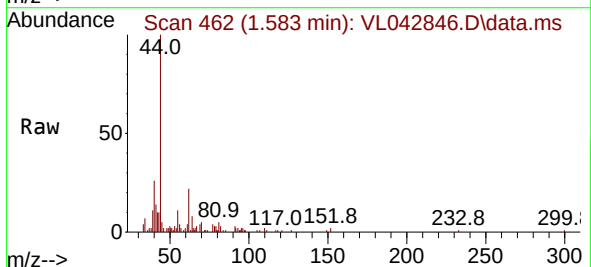
08/14/2025
Supervised By :Mahesh
Dadoda

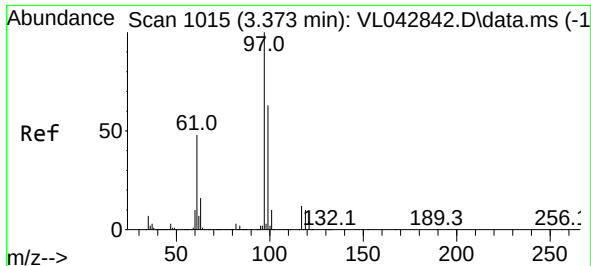
08/18/2025



#5
Vinyl Chloride
Concen: 0.110 ppbv
RT: 1.583 min Scan# 462
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

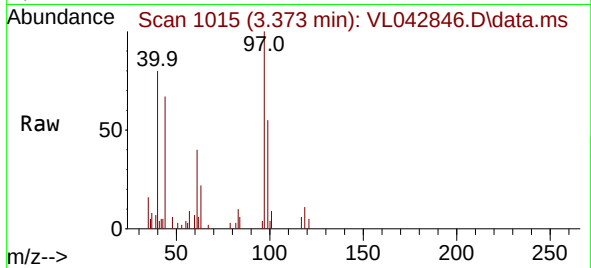
Tgt Ion: 62 Resp: 790
Ion Ratio Lower Upper
62 100
64 39.7 25.4 38.2#





#32
1,1,1-Trichloroethane
Concen: 0.113 ppbv m
RT: 3.373 min Scan# 1015
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



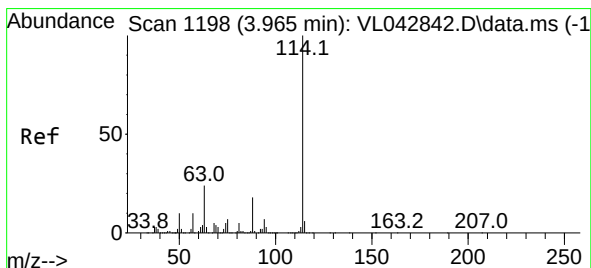
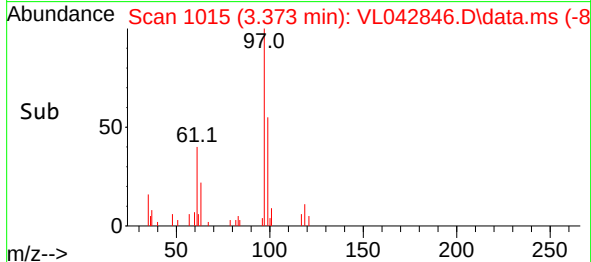
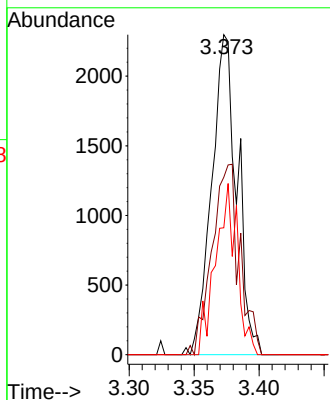
Tgt Ion: 97 Resp: 3128
Ion Ratio Lower Upper
97 100
99 64.1 51.0 76.6
61 45.6 38.0 57.0

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

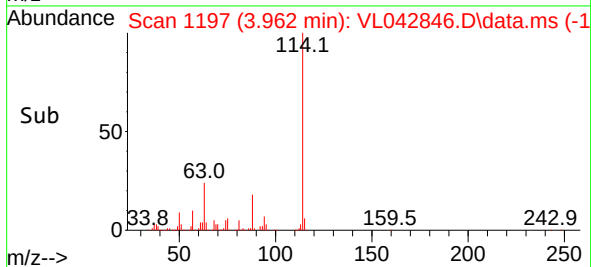
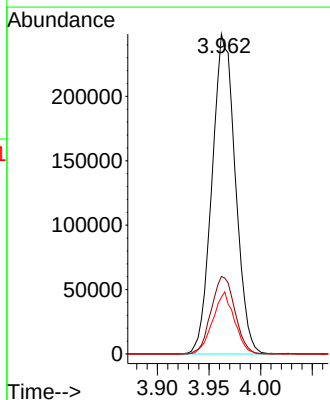
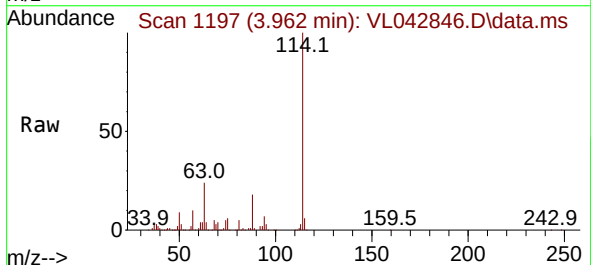
08/14/2025
Supervised By :Mahesh
Dadoda

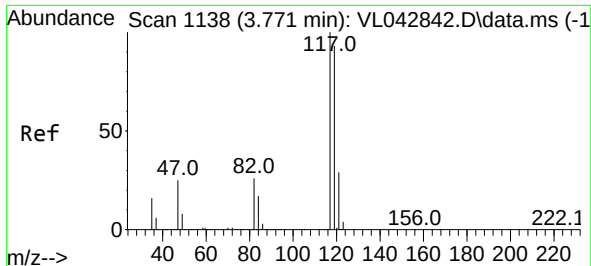
08/18/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

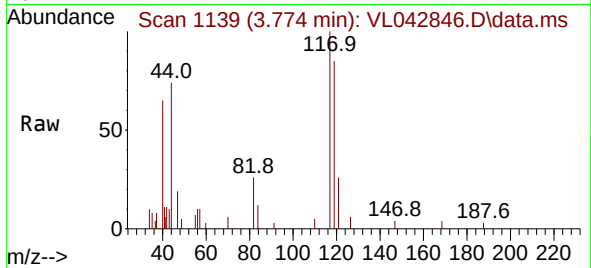
Tgt Ion:114 Resp: 390520
Ion Ratio Lower Upper
114 100
63 24.6 19.7 29.5
88 18.1 14.4 21.6





#35
Carbon Tetrachloride
Concen: 0.107 ppbv
RT: 3.774 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



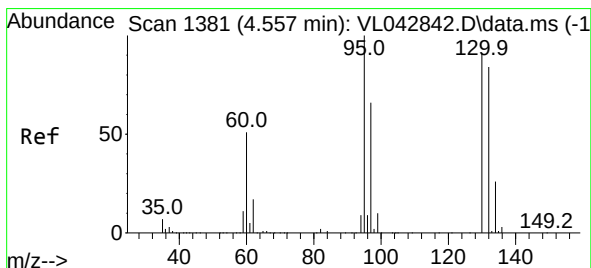
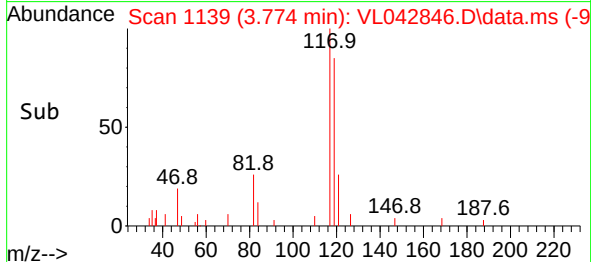
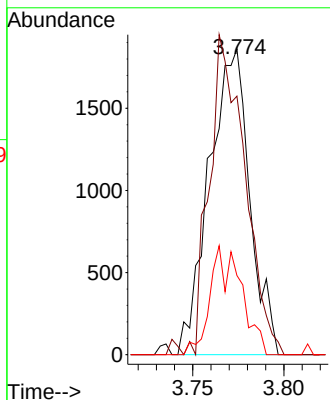
Tgt Ion:117 Resp: 288
Ion Ratio Lower Upper
117 100
119 81.8 74.7 112.1
121 25.9 23.2 34.8

Manual Integrations
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Reviewed By :Semsettin
Yesilyurt

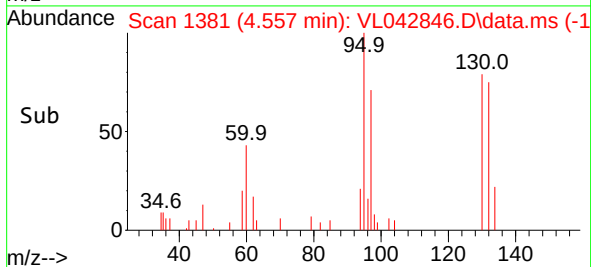
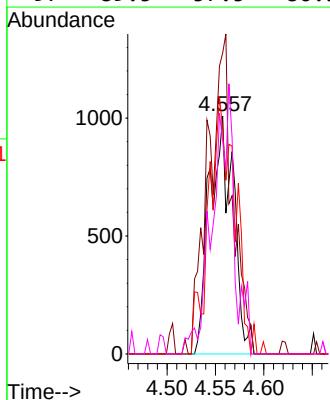
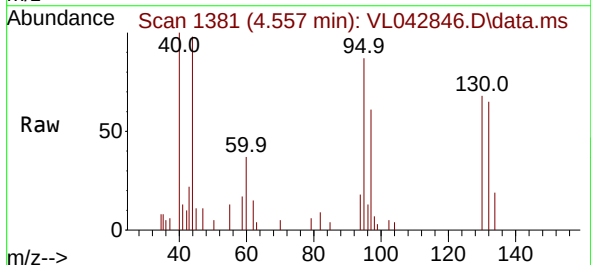
08/14/2025
Supervised By :Mahesh
Dadoda

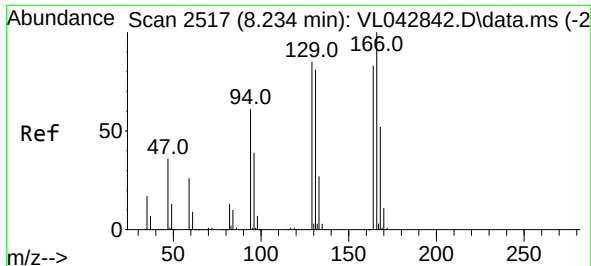
08/18/2025



#38
Trichloroethene
Concen: 0.102 ppbv m
RT: 4.557 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

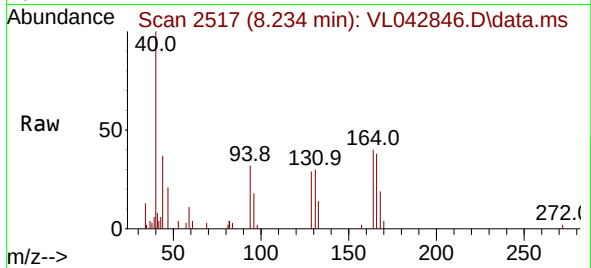
Tgt Ion:130 Resp: 1748
Ion Ratio Lower Upper
130 100
95 126.6 87.6 131.4
132 94.4 73.8 110.8
97 89.5 57.5 86.3#





#52
Tetrachloroethene
Concen: 0.109 ppbv m
RT: 8.234 min Scan# 2517
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



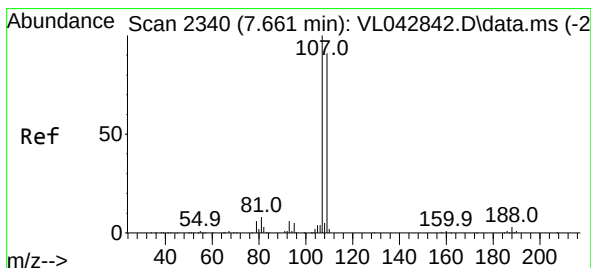
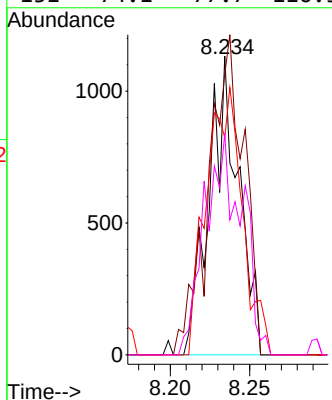
Tgt Ion:164 Resp: 1479
Ion Ratio Lower Upper
164 100
166 94.0 96.5 144.7
129 72.7 81.8 122.6
131 74.1 77.7 116.5

Manual Integrations
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Reviewed By :Semsettin
Yesilyurt

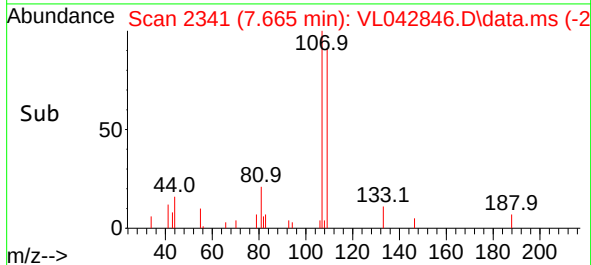
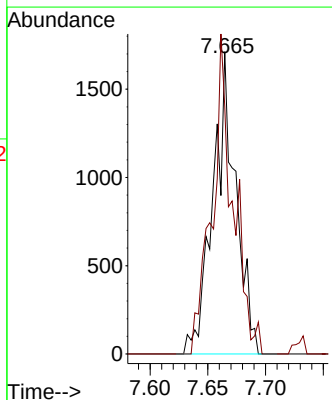
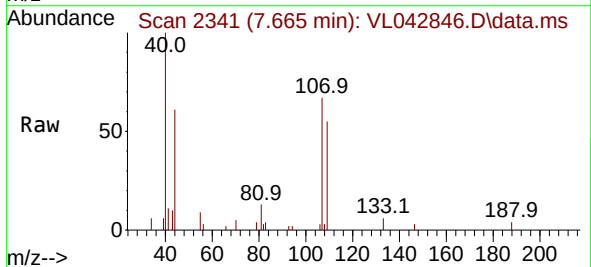
08/14/2025
Supervised By :Mahesh
Dadoda

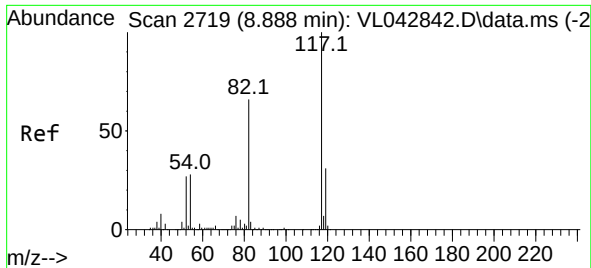
08/18/2025



#54
1,2-Dibromoethane
Concen: 0.111 ppbv m
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

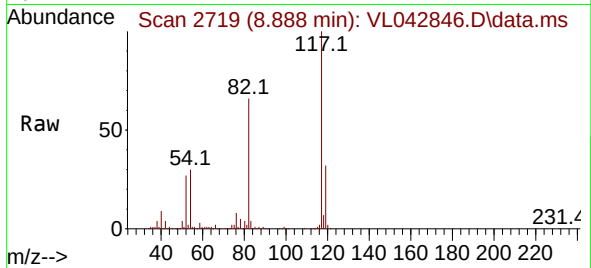
Tgt Ion:107 Resp: 2339
Ion Ratio Lower Upper
107 100
109 82.0 72.5 108.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument : MSVOA_1
ClientSampleId : VSTDIC0.1



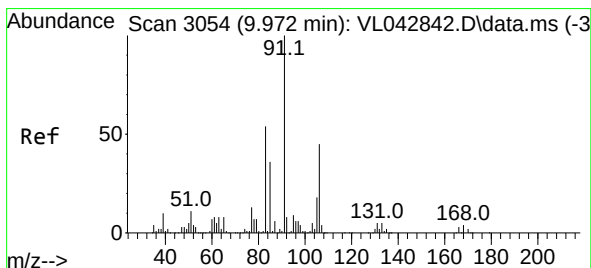
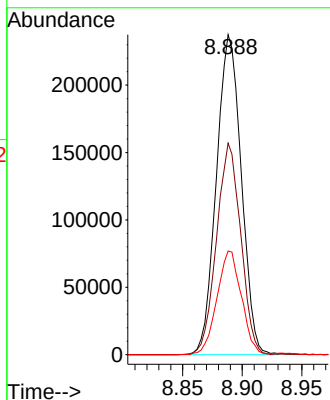
Tgt Ion: 117 Resp: 34507
Ion Ratio Lower Upper
117 100
82 64.3 54.6 81.8
119 32.2 25.9 38.9

Manual Integrations
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Reviewed By : Semsettin
Yesilyurt

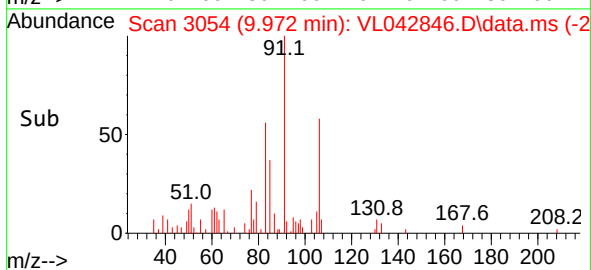
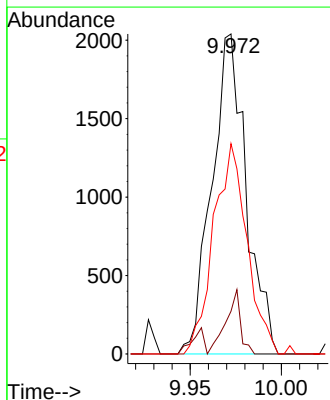
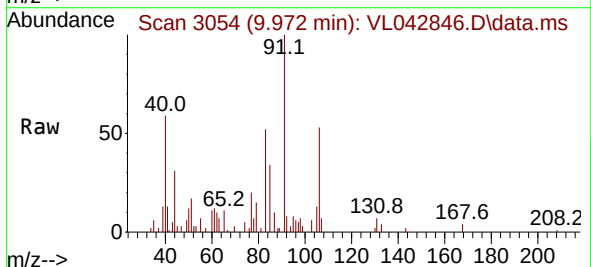
08/14/2025
Supervised By : Mahesh
Dadoda

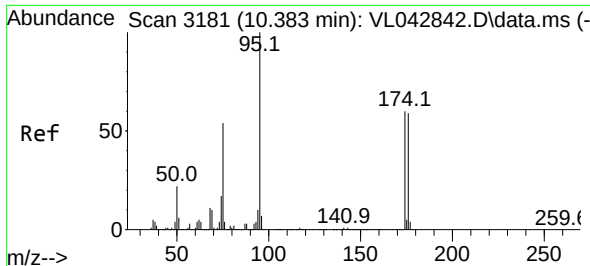
08/18/2025



#63
1,1,2,2-Tetrachloroethane
Concen: 0.102 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

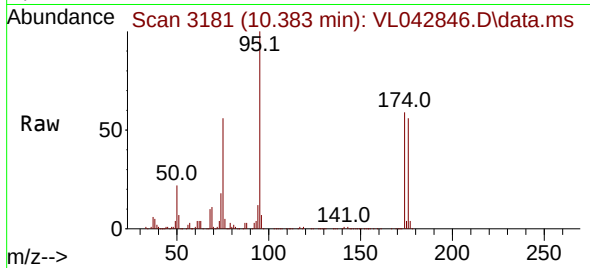
Tgt Ion: 83 Resp: 2672
Ion Ratio Lower Upper
83 100
131 11.4 4.8 14.3
85 64.3 32.3 96.8





#68
1-Bromo-4-Fluorobenzene
Concen: 9.948 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



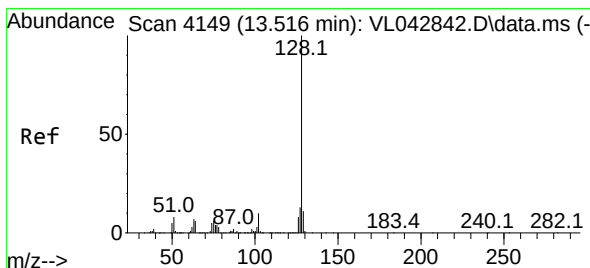
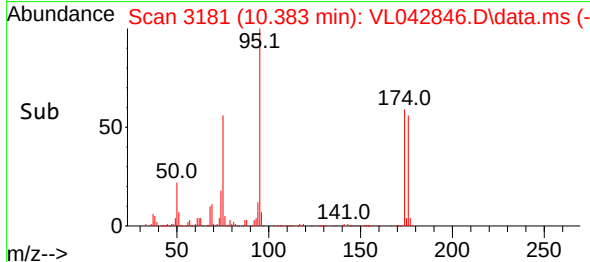
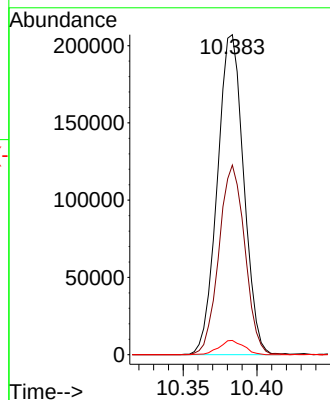
Tgt Ion: 95 Resp: 257439
Ion Ratio Lower Upper
95 100
174 58.3 48.4 72.6
175 4.2 3.8 5.8

Manual Integrations
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Reviewed By :Semsettin
Yesilyurt

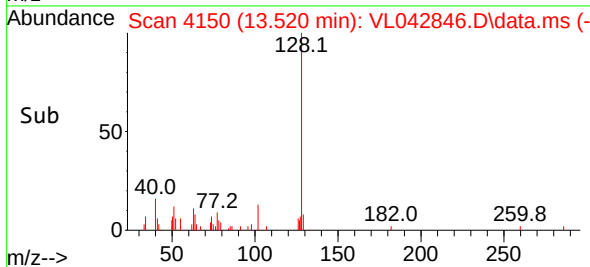
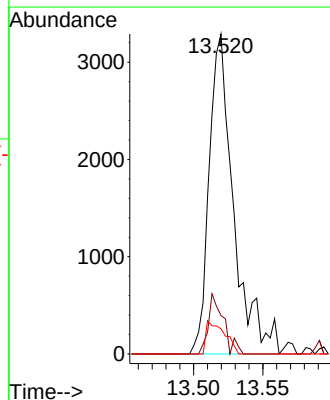
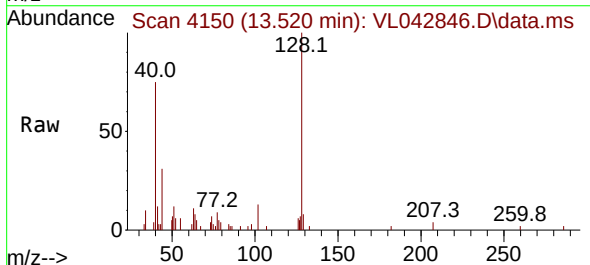
08/14/2025
Supervised By :Mahesh
Dadoda

08/18/2025



#79
Naphthalene
Concen: 0.083 ppbv m
RT: 13.520 min Scan# 4150
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:128 Resp: 4051
Ion Ratio Lower Upper
128 100
127 6.9 10.6 16.0#
129 7.9 8.9 13.3#



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

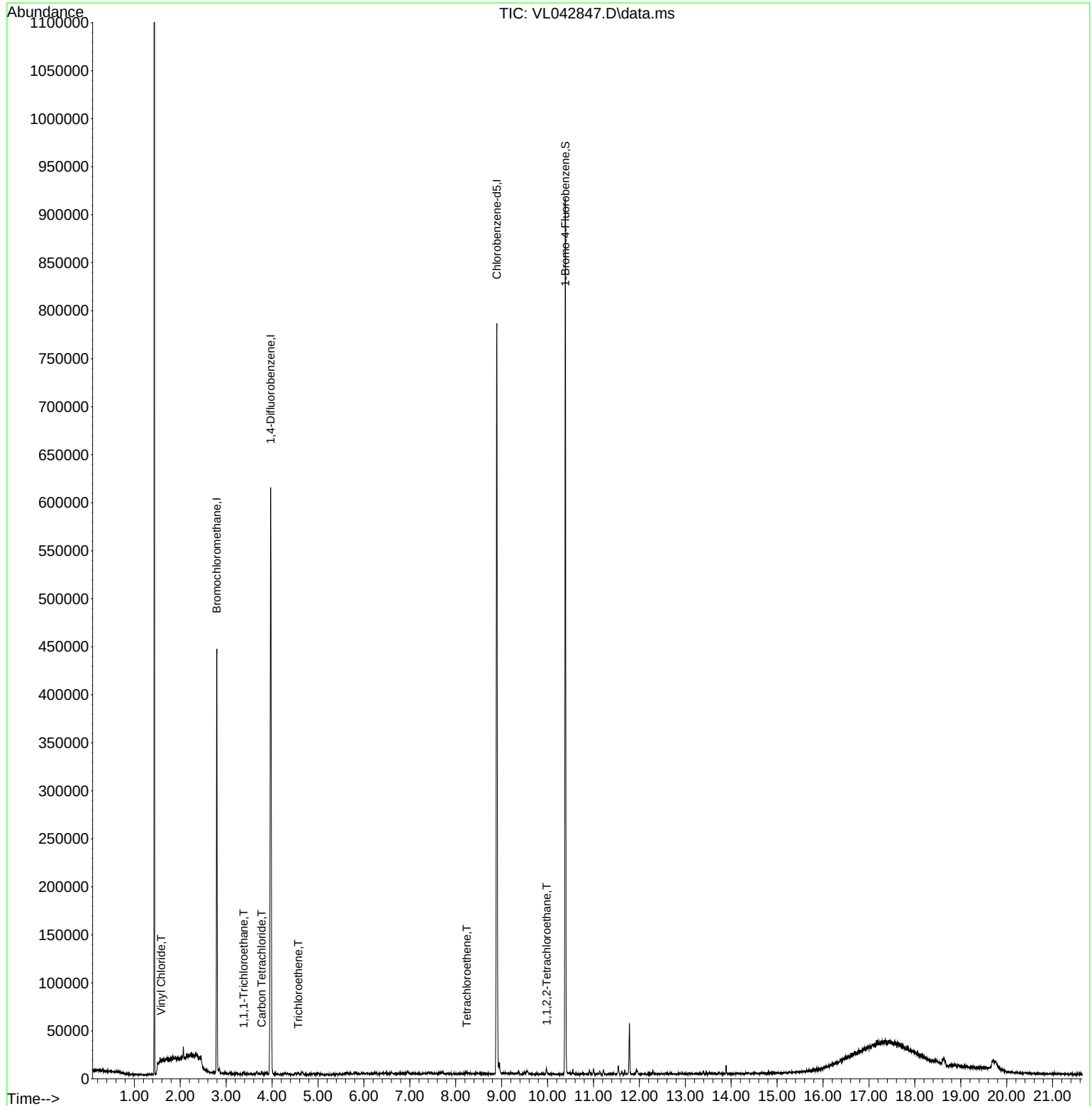
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042847.D
Acq On : 13 Aug 2025 11:30
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

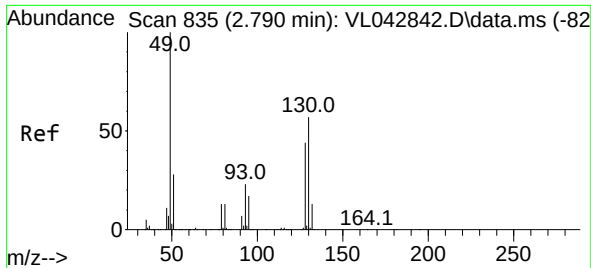
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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





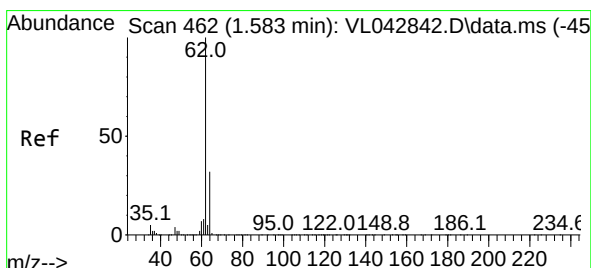
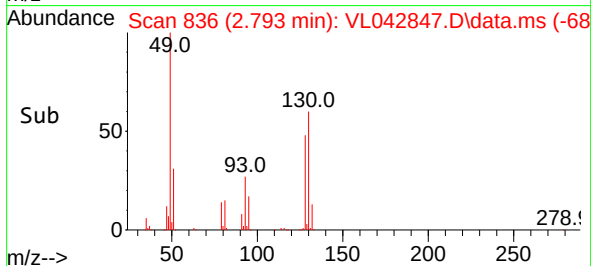
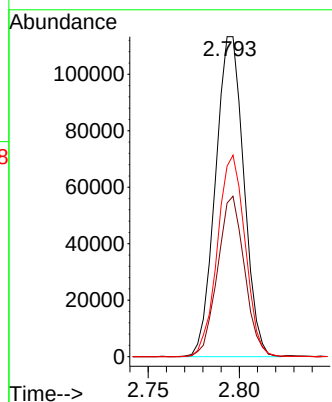
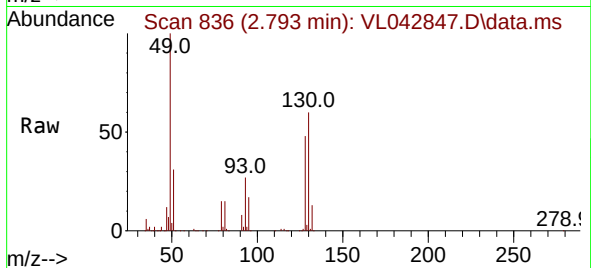
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 835
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 49 Resp: 12270
Ion Ratio Lower Upper
49 100
128 47.7 23.7 71.1
130 61.6 30.6 91.6

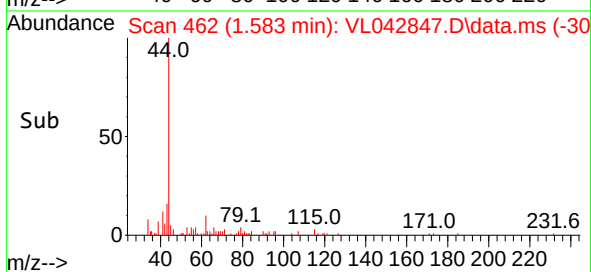
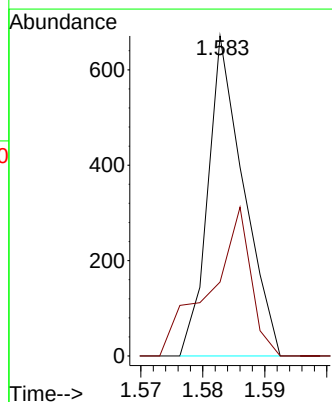
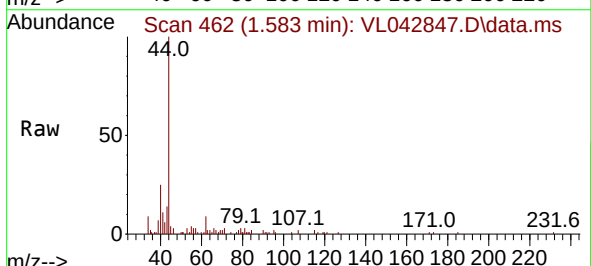
Manual Integrations
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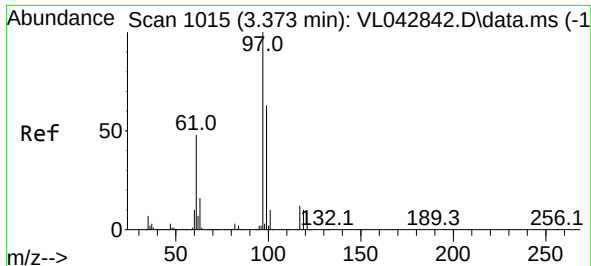
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#5
Vinyl Chloride
Concen: 0.037 ppbv
RT: 1.583 min Scan# 462
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

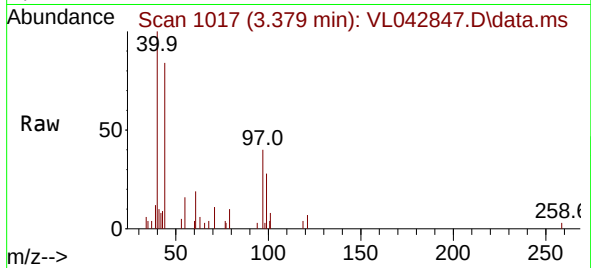
Tgt Ion: 62 Resp: 268
Ion Ratio Lower Upper
62 100
64 21.2 25.4 38.2#





#32
 1,1,1-Trichloroethane
 Concen: 0.033 ppbv m
 RT: 3.379 min Scan# 1015
 Delta R.T. 0.006 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

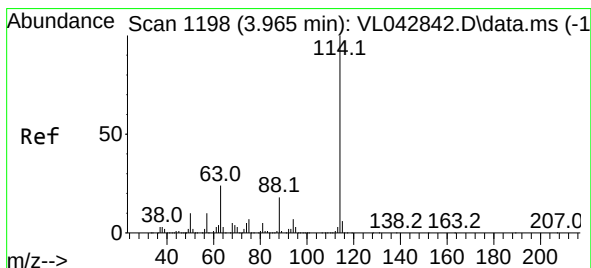
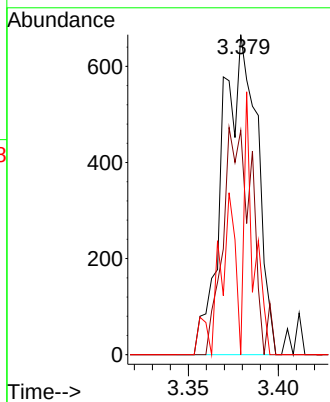
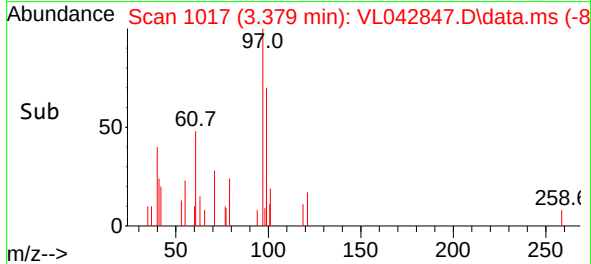
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03



Tgt Ion: 97 Resp: 90
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.0 76.6
 61 45.2 38.0 57.0

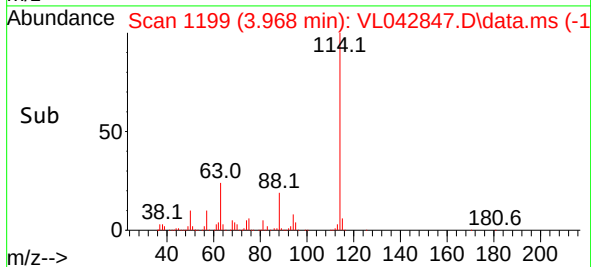
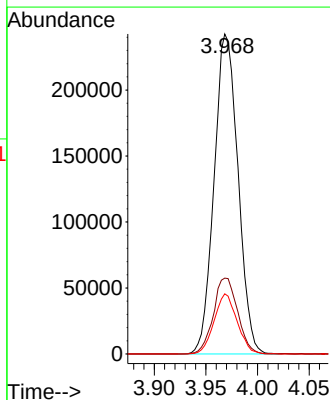
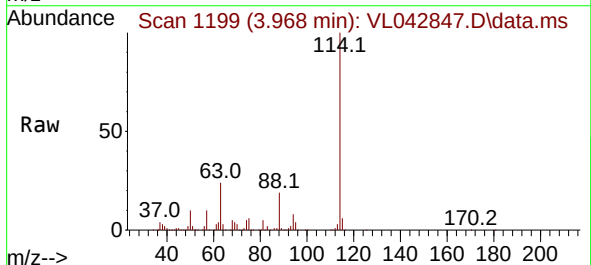
Manual Integrations
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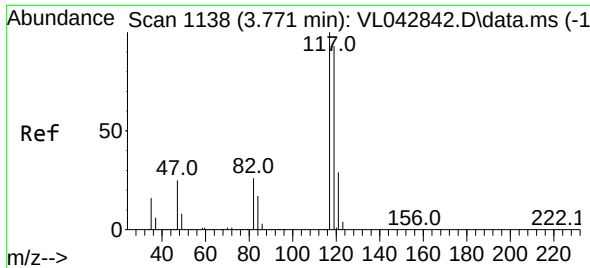
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.968 min Scan# 1199
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

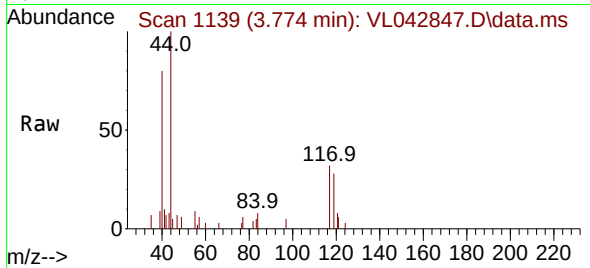
Tgt Ion:114 Resp: 390076
 Ion Ratio Lower Upper
 114 100
 63 24.1 19.7 29.5
 88 18.1 14.4 21.6





#35
Carbon Tetrachloride
Concen: 0.032 ppbv m
RT: 3.774 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

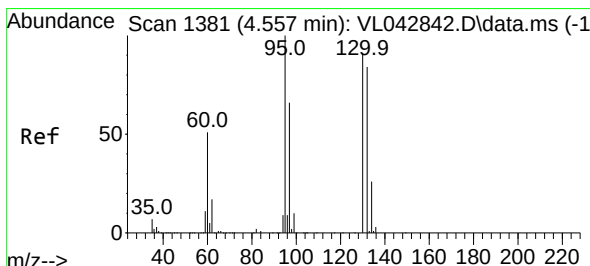
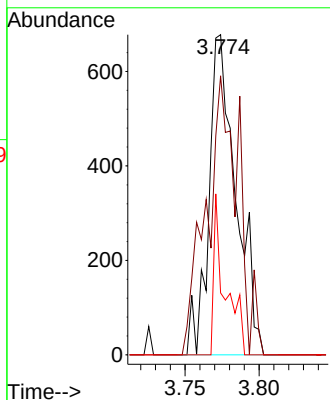
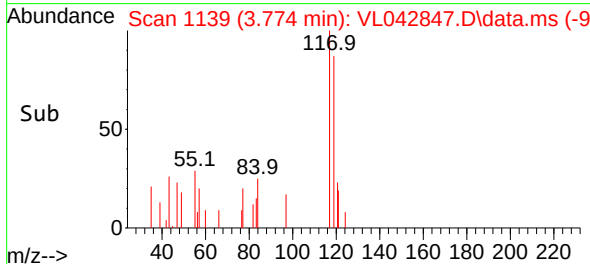
Instrument : MSVOA_L
ClientSampleId : VSTDICC0.03



Tgt Ion:117 Resp: 86
Ion Ratio Lower Upper
117 100
119 87.2 74.7 112.1
121 19.3 23.2 34.8

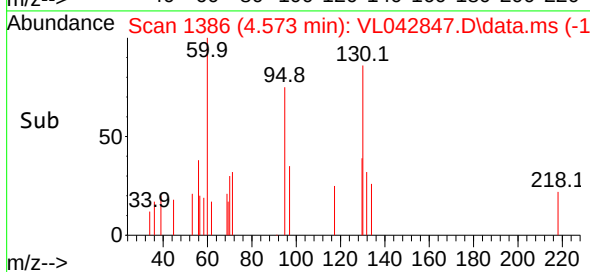
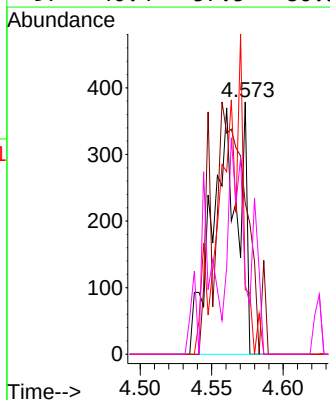
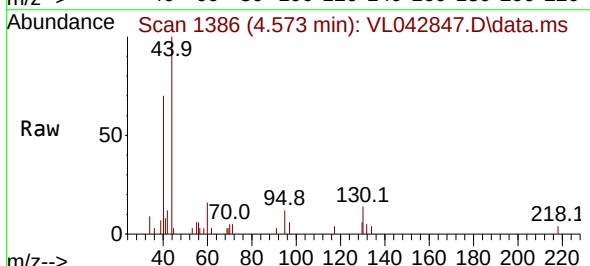
Manual Integrations
APPROVED

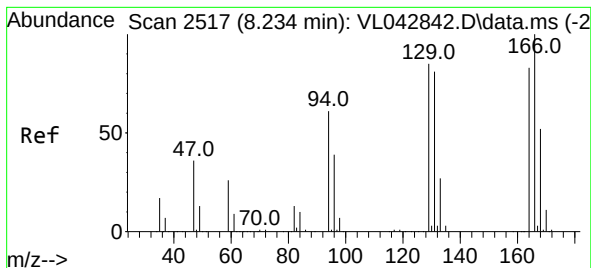
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#38
Trichloroethene
Concen: 0.029 ppbv m
RT: 4.573 min Scan# 1386
Delta R.T. 0.016 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:130 Resp: 487
Ion Ratio Lower Upper
130 100
95 87.3 87.6 131.4#
132 37.3 73.8 110.8#
97 40.4 57.5 86.3#





#52

Tetrachloroethene

Concen: 0.034 ppbv m

RT: 8.241 min Scan# 2519

Delta R.T. 0.006 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

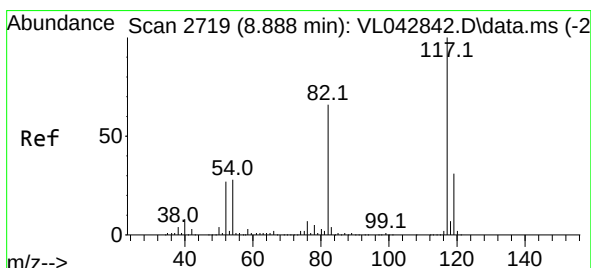
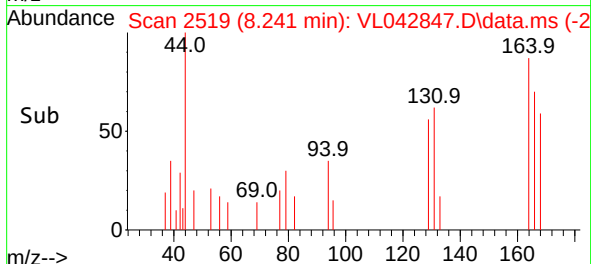
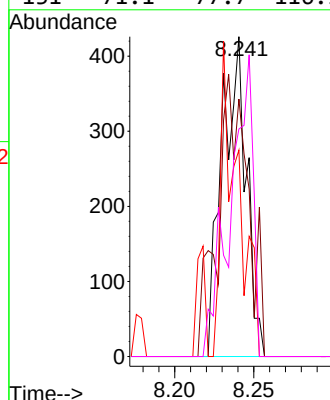
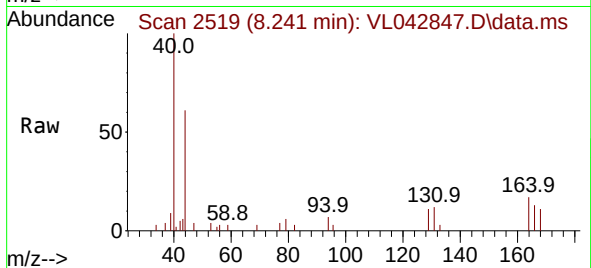
Tgt Ion:164 Resp: 458

Ion	Ratio	Lower	Upper
164	100		
166	80.5	96.5	144.7
129	64.6	81.8	122.6
131	71.1	77.7	116.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.894 min Scan# 2721

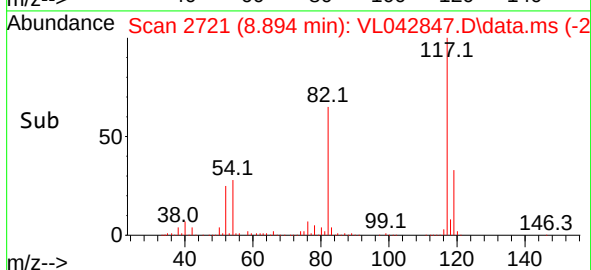
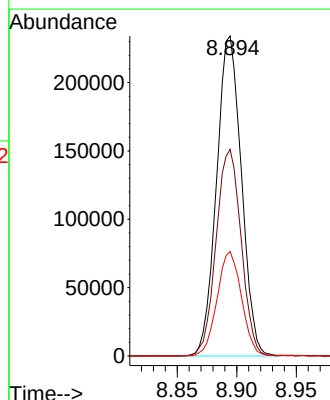
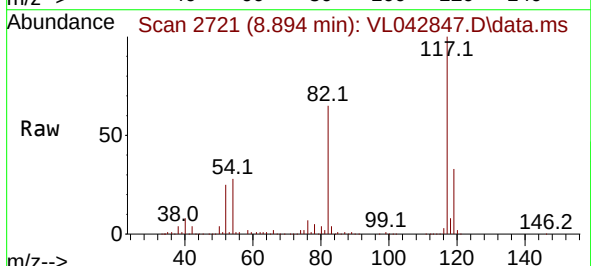
Delta R.T. 0.006 min

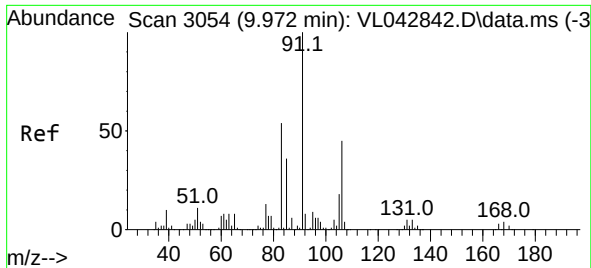
Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Tgt Ion:117 Resp: 339700

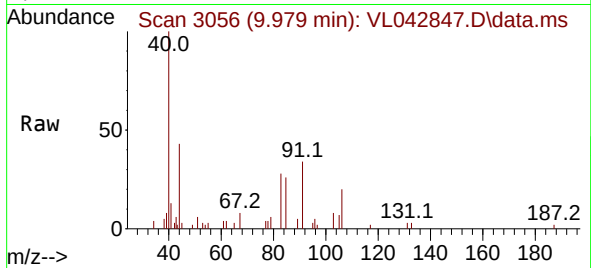
Ion	Ratio	Lower	Upper
117	100		
82	65.1	54.6	81.8
119	32.2	25.9	38.9





#63
1,1,2,2-Tetrachloroethane
Concen: 0.035 ppbv m
RT: 9.979 min Scan# 3054
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

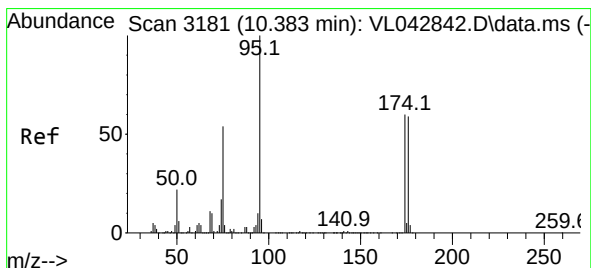
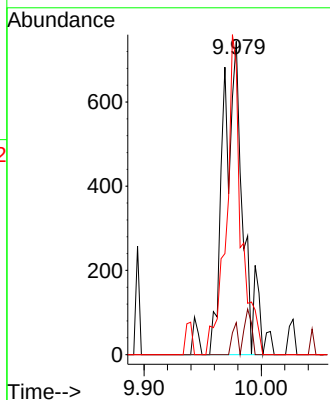
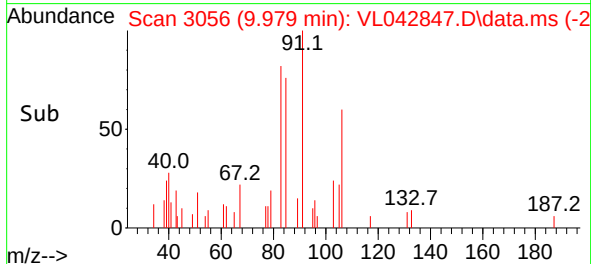
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



Tgt Ion: 83 Resp: 898
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.3
85 77.5 32.3 96.8

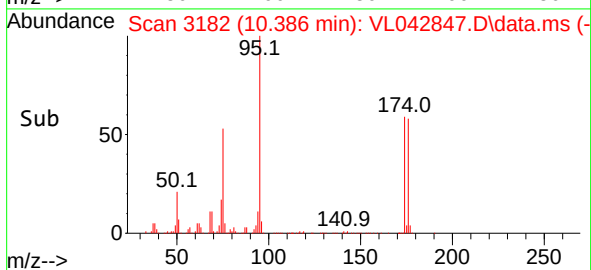
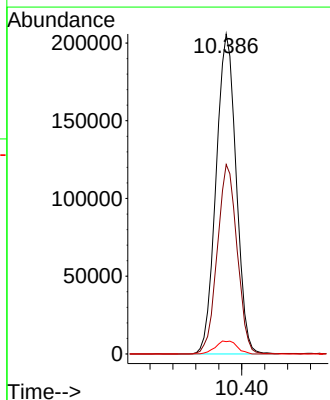
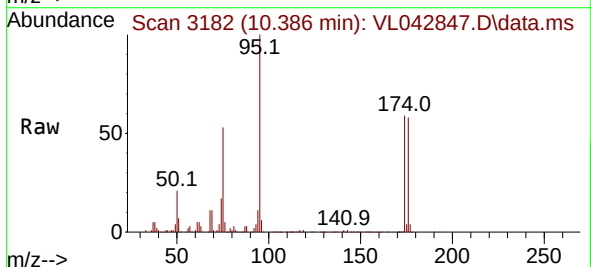
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.816 ppbv
RT: 10.386 min Scan# 3182
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 95 Resp: 250082
Ion Ratio Lower Upper
95 100
174 58.5 48.4 72.6
175 4.4 3.8 5.8



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

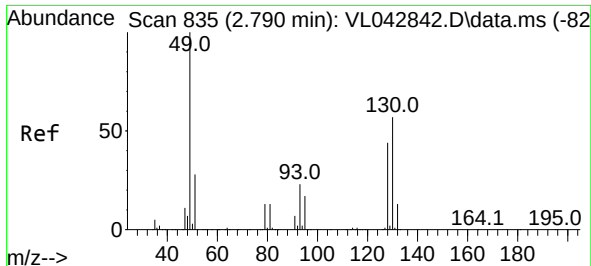
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

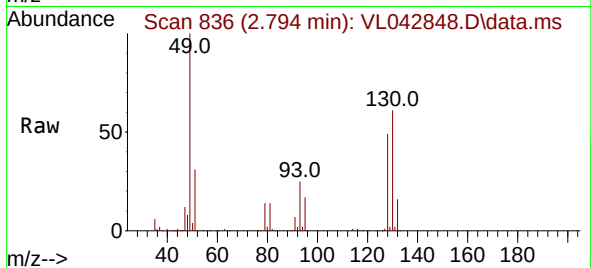
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	302339	14.191	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	199067	14.118	ppbv	98
48) Dibromochloromethane	7.399	129	331947	14.535	ppbv	99
49) Bromoform	9.494	173	266732	14.162	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 835
Delta R.T. 0.004 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

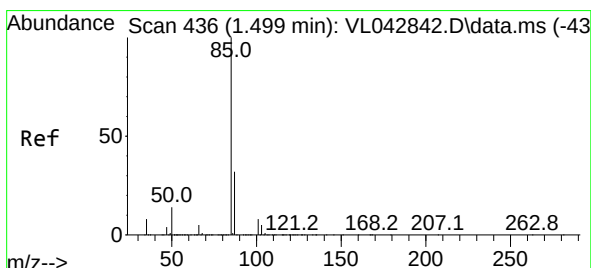
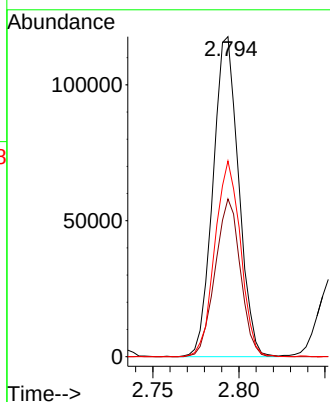
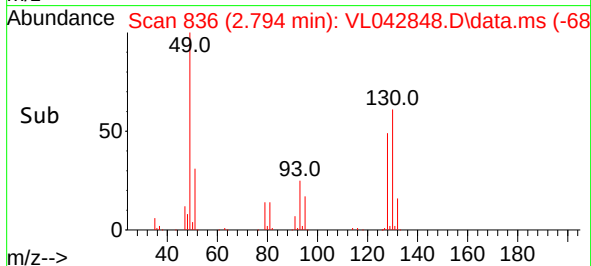
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 49 Resp: 122073
Ion Ratio Lower Upper
49 100
128 48.4 23.7 71.1
130 61.2 30.6 91.6

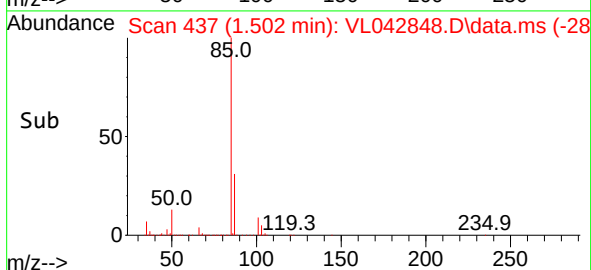
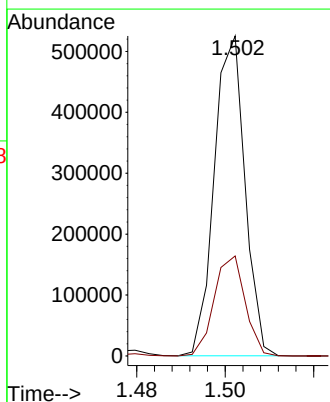
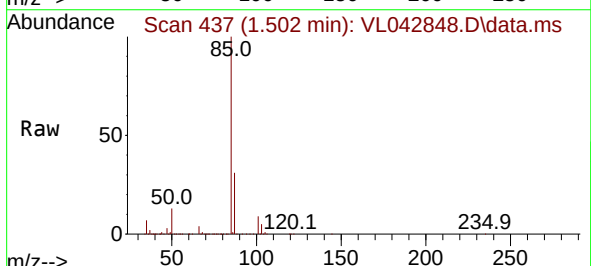
Manual Integrations
APPROVED

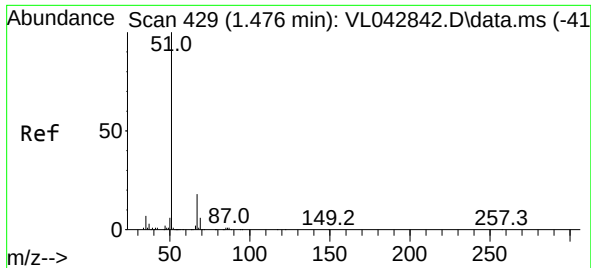
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#2
Dichlorodifluoromethane
Concen: 14.150 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

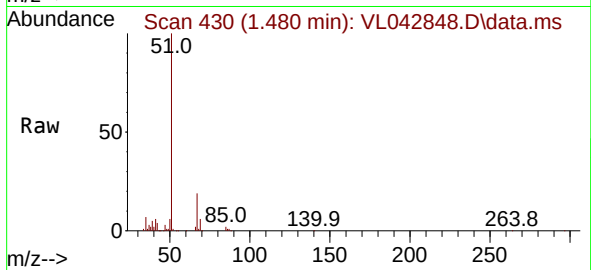
Tgt Ion: 85 Resp: 253151
Ion Ratio Lower Upper
85 100
87 31.2 25.3 37.9





#3
Chlorodifluoromethane
Concen: 13.910 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

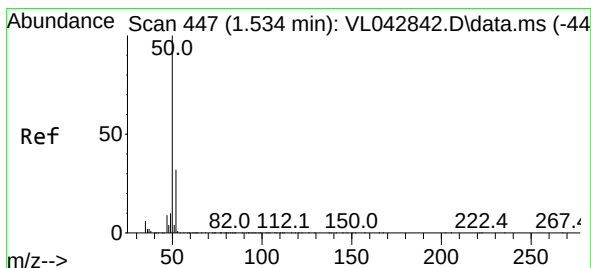
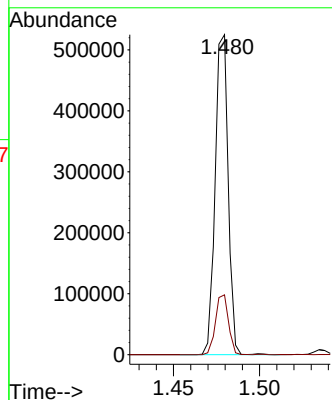
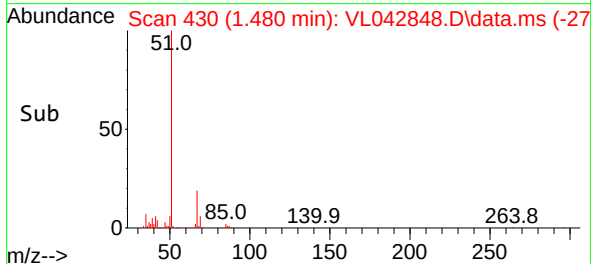
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



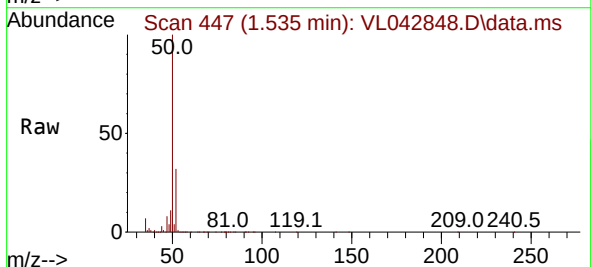
Tgt Ion: 51 Resp: 275350
Ion Ratio Lower Upper
51 100
67 18.9 14.9 22.3

Manual Integrations
APPROVED

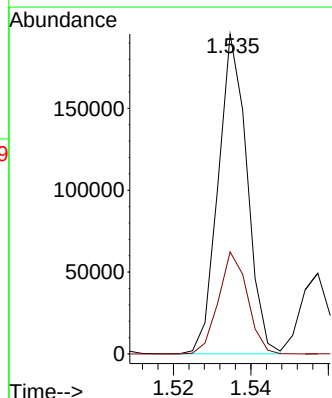
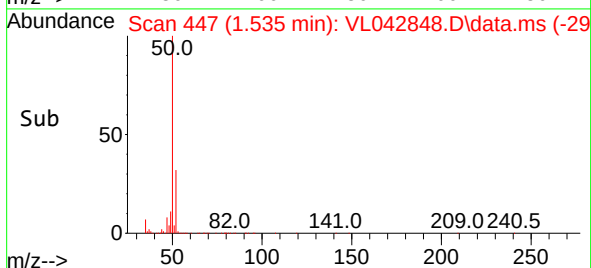
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

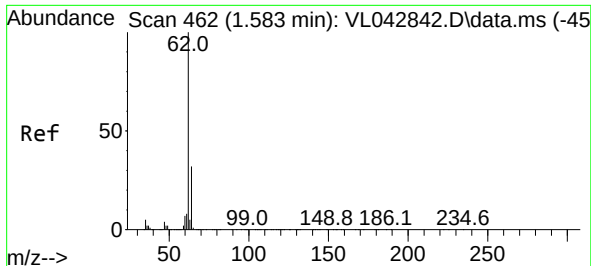


#4
Chloromethane
Concen: 13.986 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



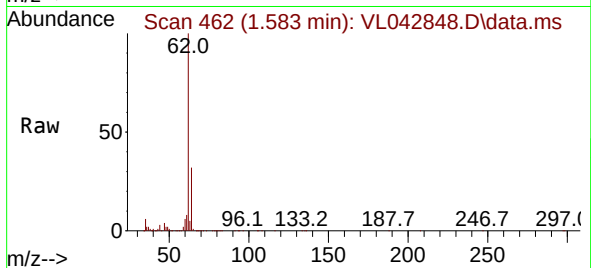
Tgt Ion: 50 Resp: 100974
Ion Ratio Lower Upper
50 100
52 31.9 25.9 38.9





#5
 Vinyl Chloride
 Concen: 13.053 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

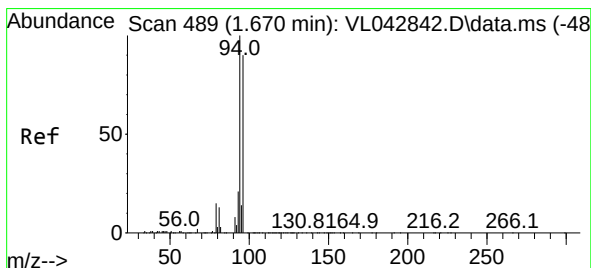
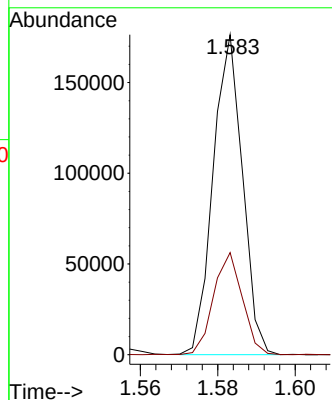
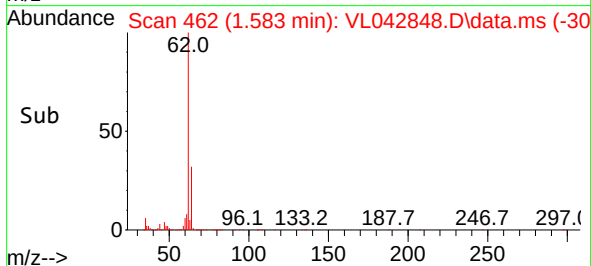
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015



Tgt Ion: 62 Resp: 92812
 Ion Ratio Lower Upper
 62 100
 64 31.8 25.4 38.2

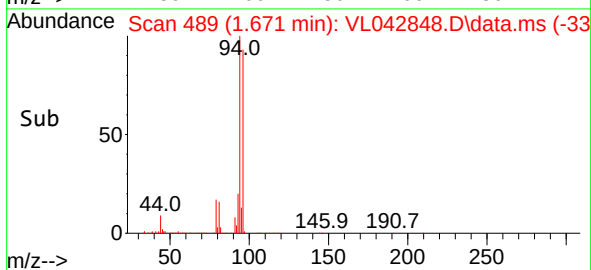
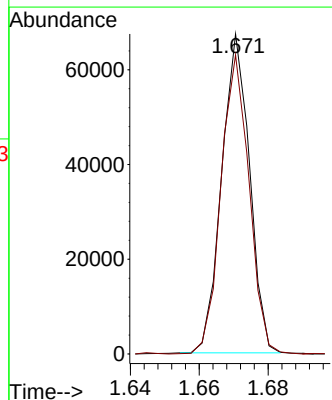
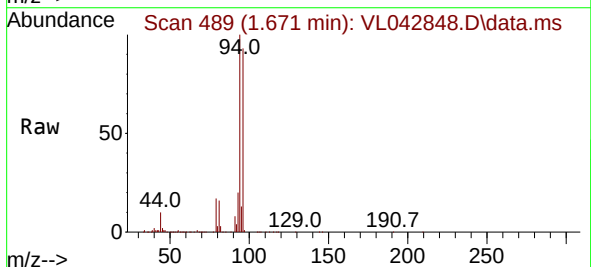
Manual Integrations
 APPROVED

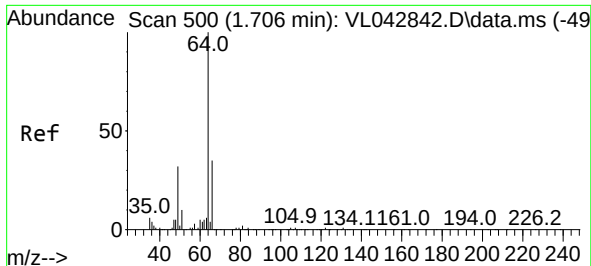
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#6
 Bromomethane
 Concen: 13.275 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

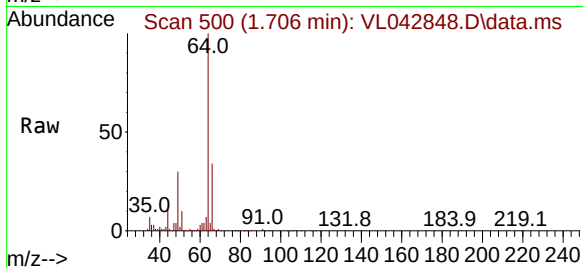
Tgt Ion: 94 Resp: 37740
 Ion Ratio Lower Upper
 94 100
 96 93.7 72.1 108.1





#7
Chloroethane
Concen: 13.828 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

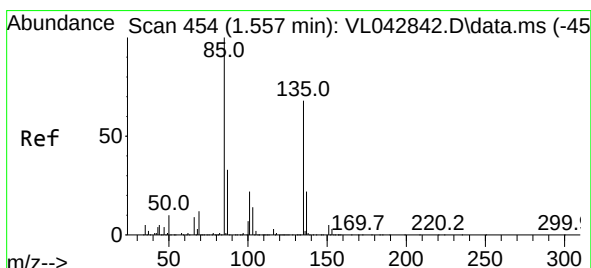
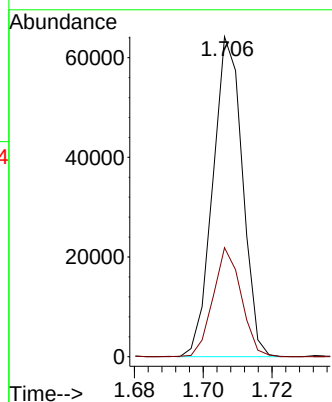
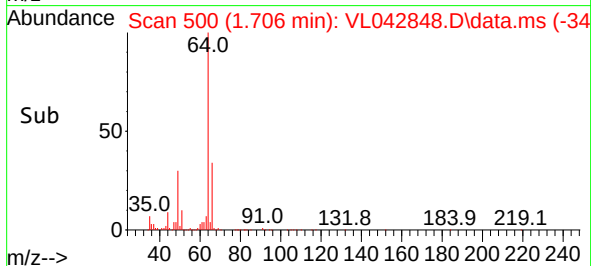
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



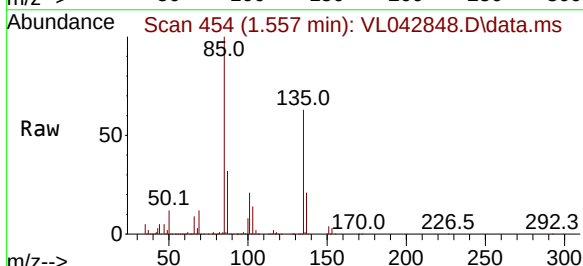
Tgt Ion: 64 Resp: 38398
Ion Ratio Lower Upper
64 100
66 34.1 28.6 42.8

Manual Integrations
APPROVED

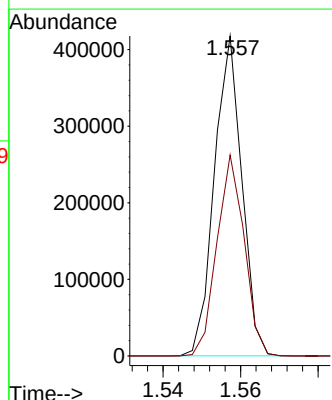
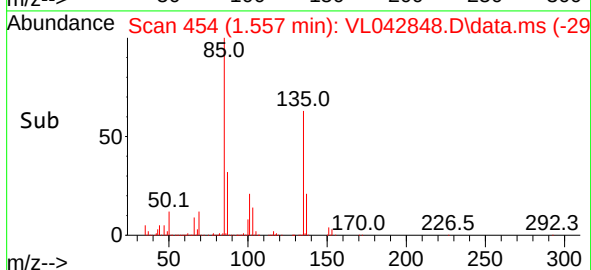
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

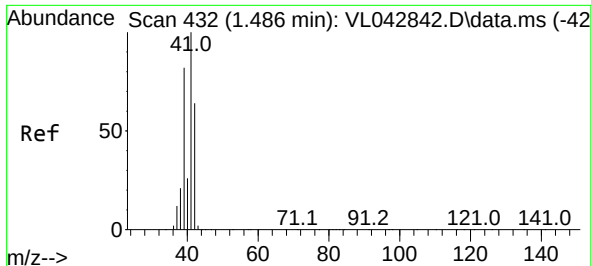


#8
Dichlorotetrafluoroethane
Concen: 14.029 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



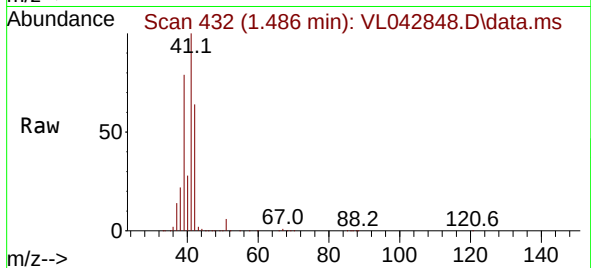
Tgt Ion: 85 Resp: 205386
Ion Ratio Lower Upper
85 100
135 62.7 51.2 76.8





#9
 Propene
 Concen: 13.094 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

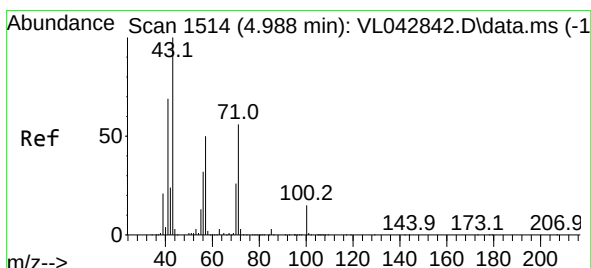
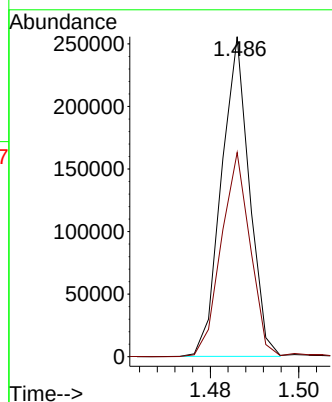
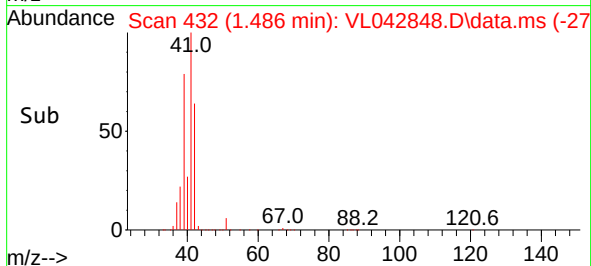
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



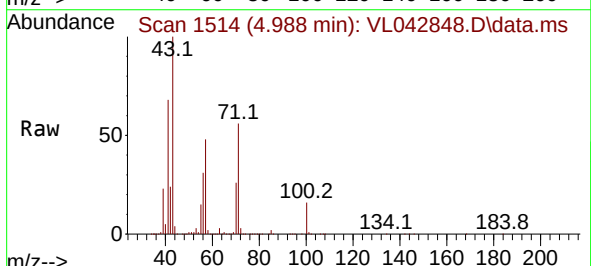
Tgt Ion: 41 Resp: 111824
 Ion Ratio Lower Upper
 41 100
 42 67.0 53.0 79.4

Manual Integrations
 APPROVED

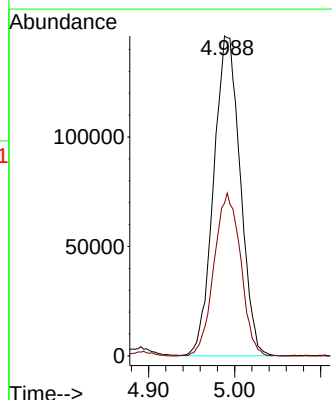
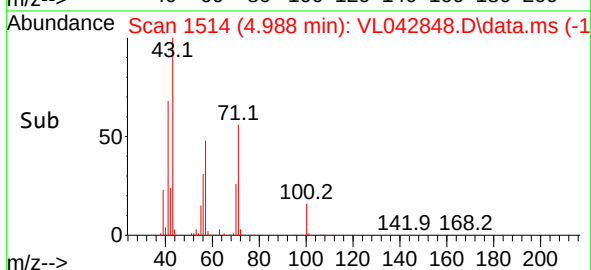
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

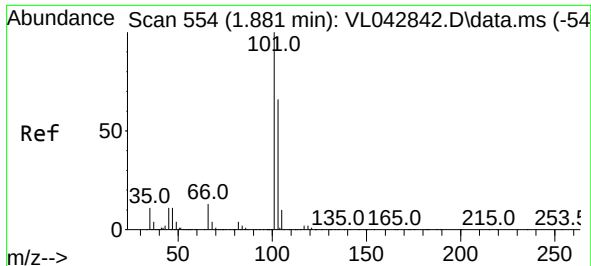


#10
 Heptane
 Concen: 13.742 ppbv
 RT: 4.988 min Scan# 1514
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06



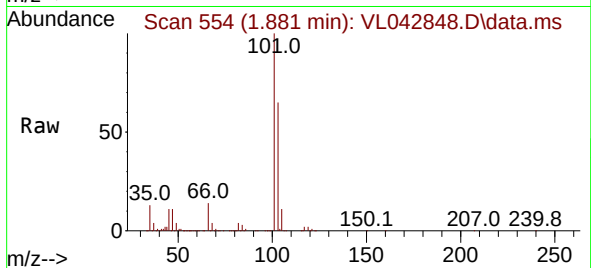
Tgt Ion: 43 Resp: 313734
 Ion Ratio Lower Upper
 43 100
 57 51.0 41.4 62.0





#11
 Trichlorofluoromethane
 Concen: 13.957 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

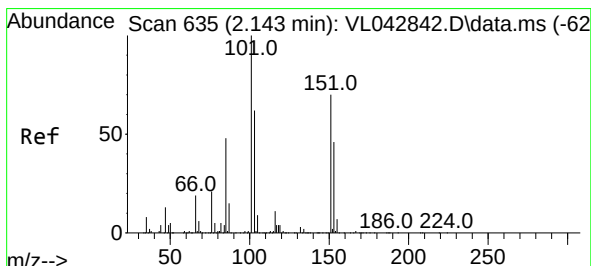
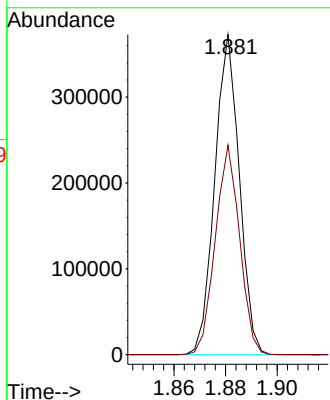
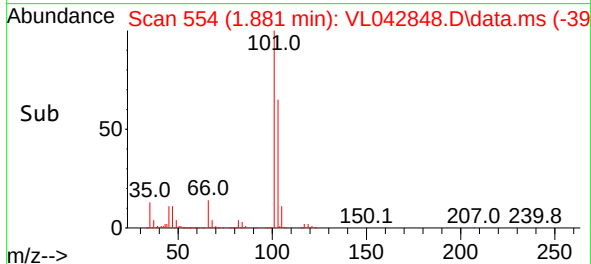
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



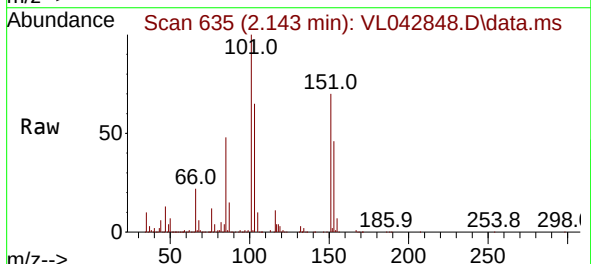
Tgt Ion:101 Resp: 246354
 Ion Ratio Lower Upper
 101 100
 103 65.5 52.5 78.7

Manual Integrations
 APPROVED

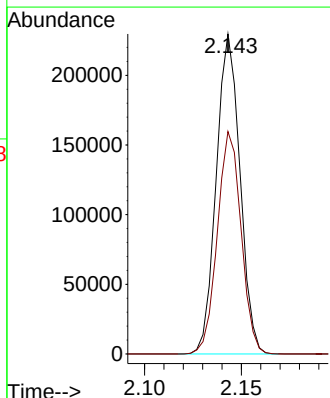
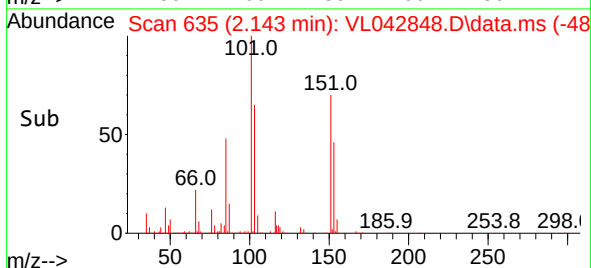
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

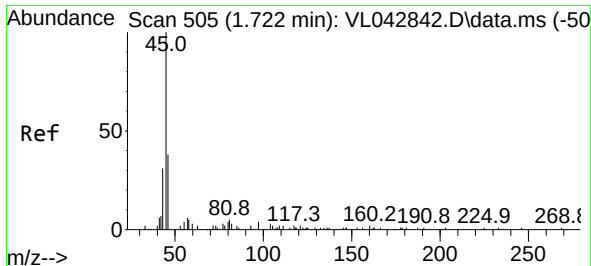


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.877 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06



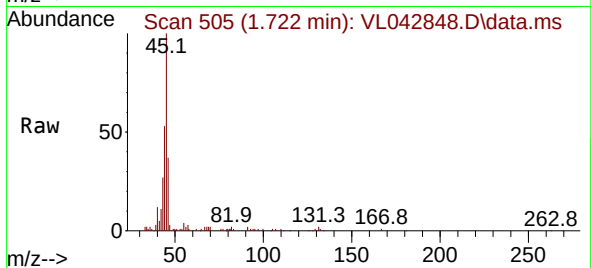
Tgt Ion:101 Resp: 195231
 Ion Ratio Lower Upper
 101 100
 151 69.7 56.4 84.6





#13
Ethanol
Concen: 10.086 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

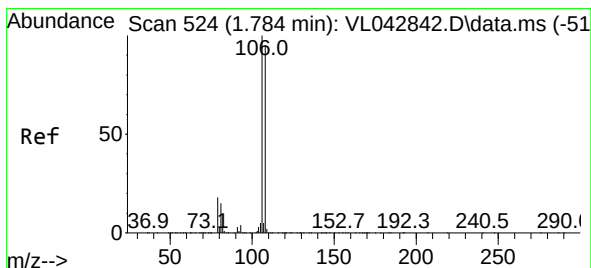
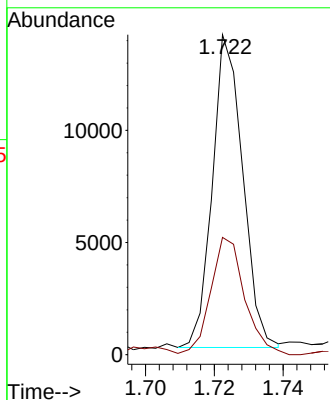
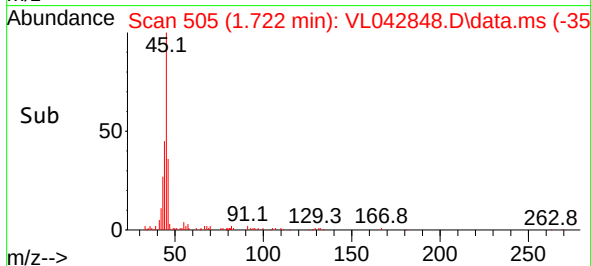
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



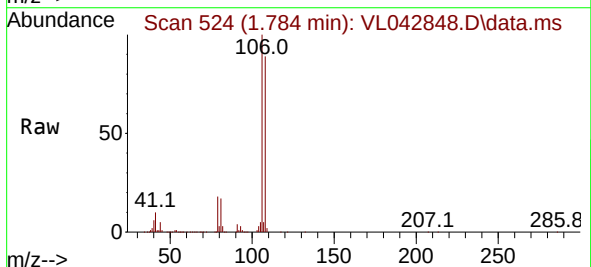
Tgt Ion: 45 Resp: 8534
Ion Ratio Lower Upper
45 100
46 42.3 17.5 69.9

Manual Integrations
APPROVED

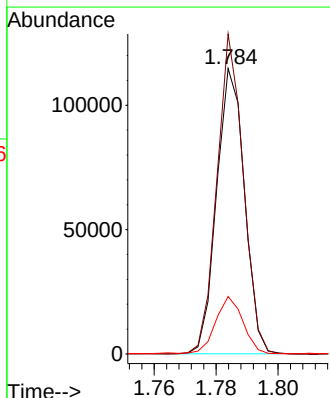
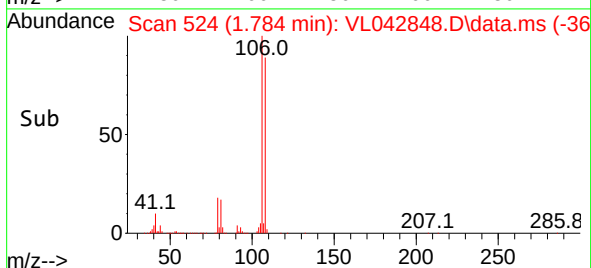
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

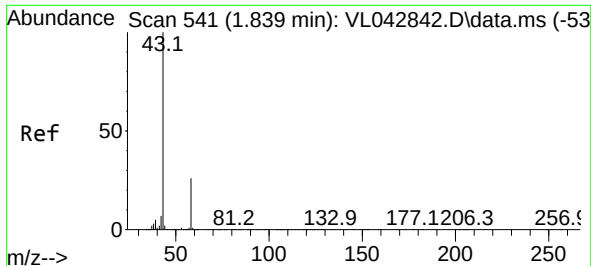


#14
Bromoethene
Concen: 14.072 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



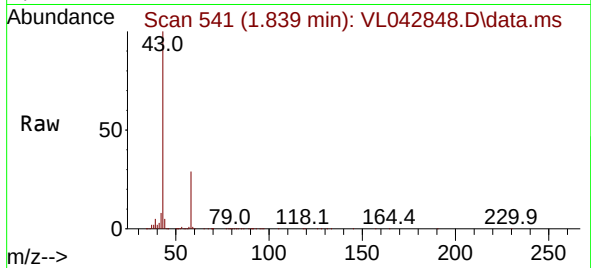
Tgt Ion:108 Resp: 71671
Ion Ratio Lower Upper
108 100
106 106.0 85.1 127.7
79 19.4 16.3 24.5





#15
Acetone
Concen: 11.402 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

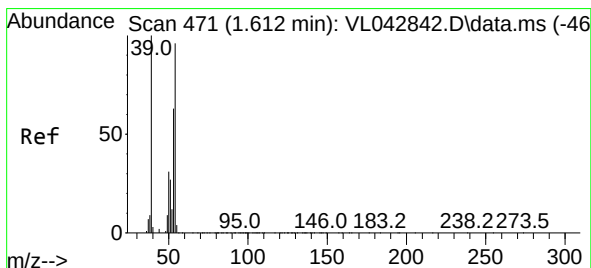
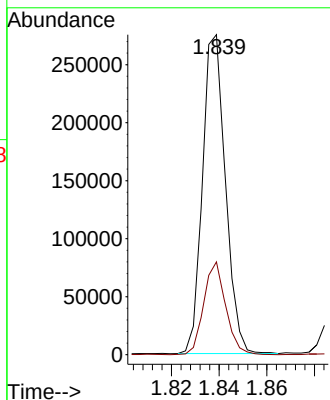
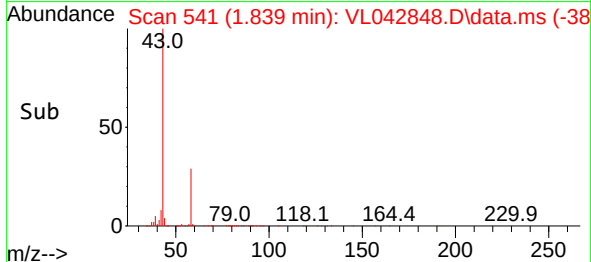
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



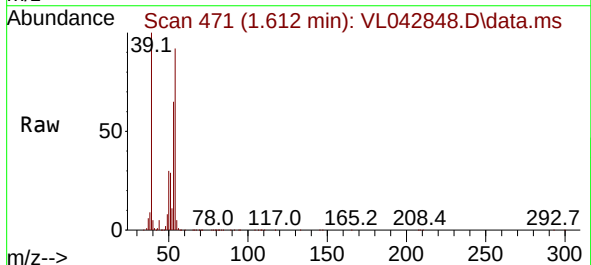
Tgt Ion: 43 Resp: 184110
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6

Manual Integrations
APPROVED

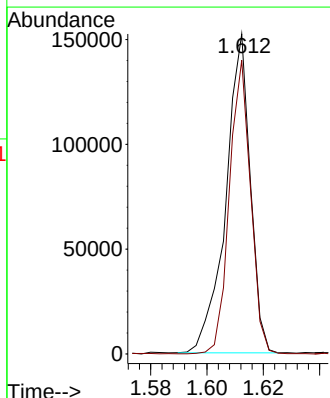
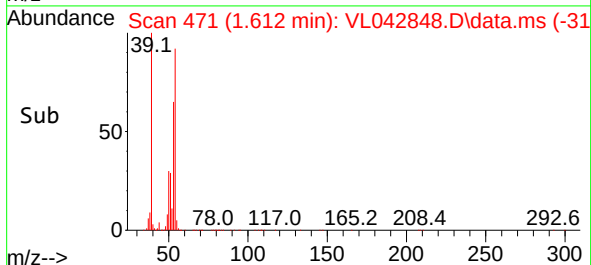
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

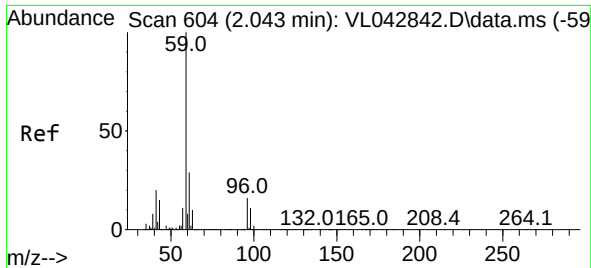


#16
1,3-Butadiene
Concen: 12.577 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



Tgt Ion: 39 Resp: 92068
Ion Ratio Lower Upper
39 100
54 79.7 63.6 95.4





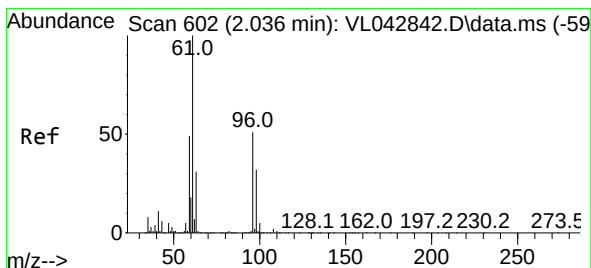
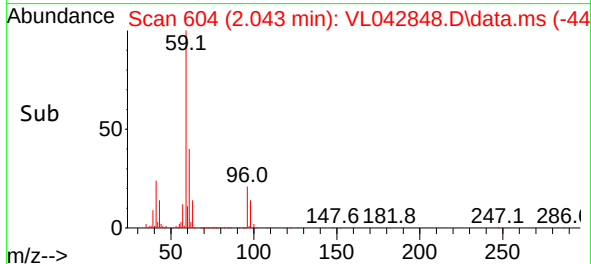
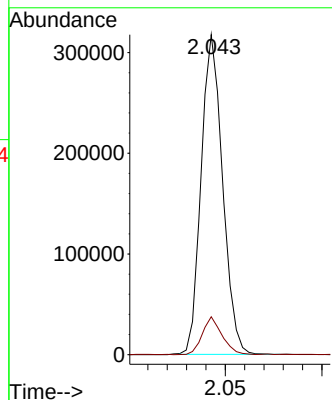
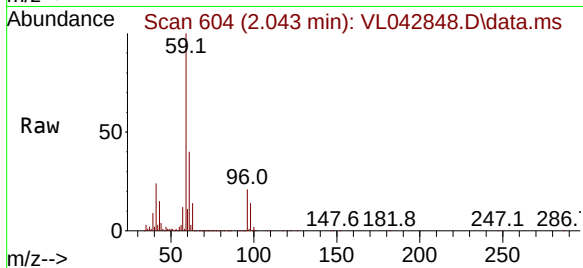
#17
tert-Butyl alcohol
Concen: 12.765 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

Tgt Ion: 59 Resp: 24444
Ion Ratio Lower Upper
59 100
57 11.3 9.0 13.4

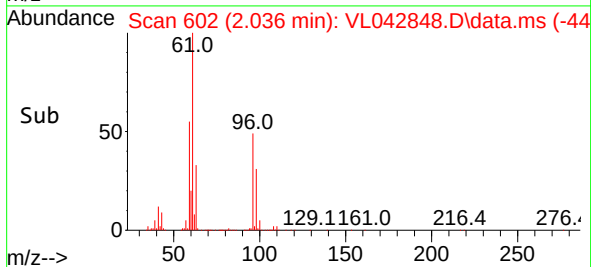
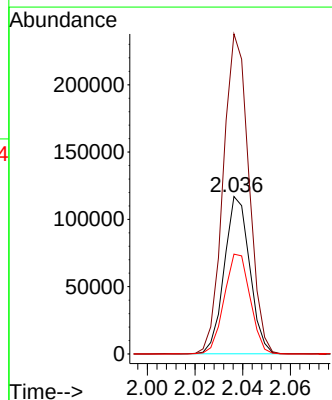
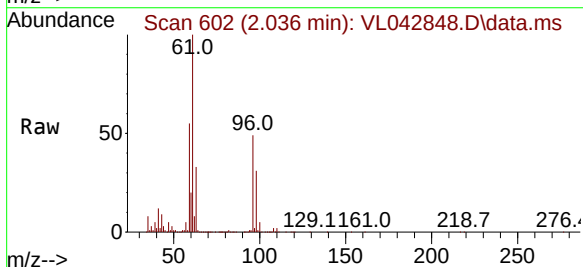
Manual Integrations
APPROVED

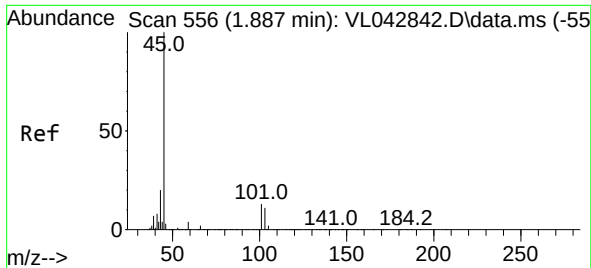
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#18
1,1-Dichloroethene
Concen: 13.961 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 96 Resp: 86349
Ion Ratio Lower Upper
96 100
61 203.3 158.2 237.4
98 63.3 50.6 76.0





#19
Isopropyl Alcohol
Concen: 12.885 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

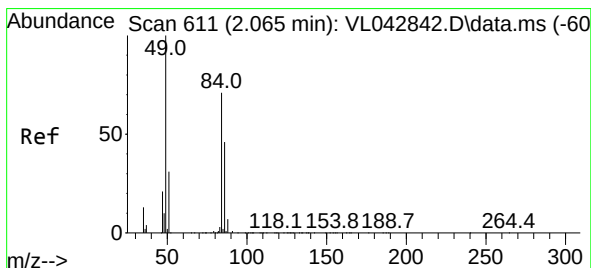
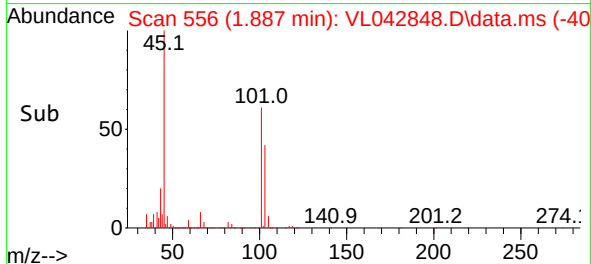
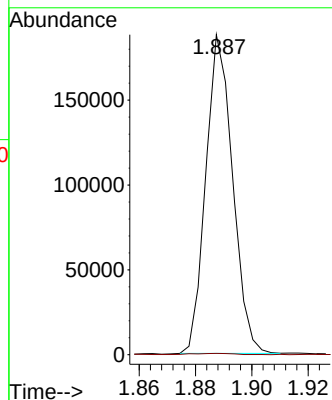
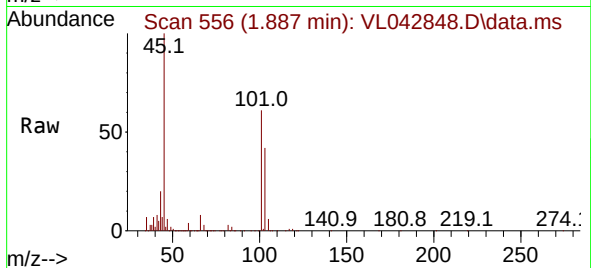
VSTDICC015

Tgt Ion: 45 Resp: 124270
Ion Ratio Lower Upper
45 100
58 41.3 32.7 49.1

Manual Integrations

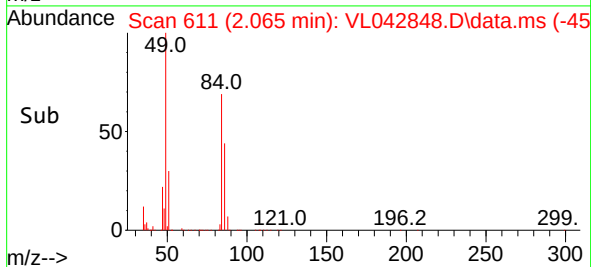
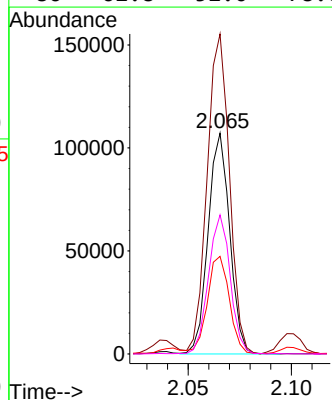
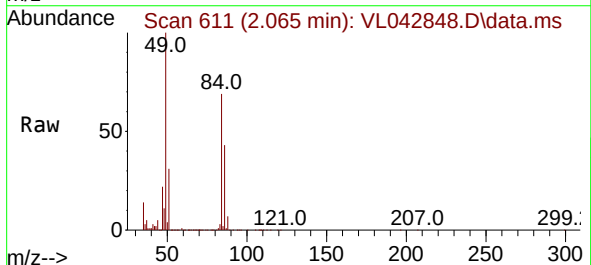
APPROVED

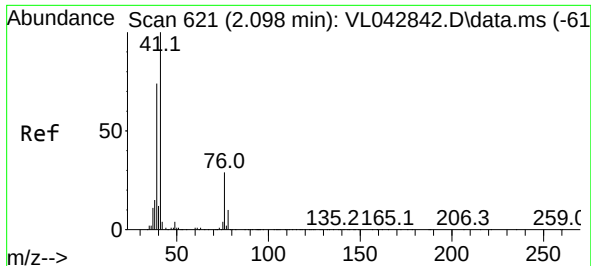
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#20
Methylene Chloride
Concen: 11.494 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

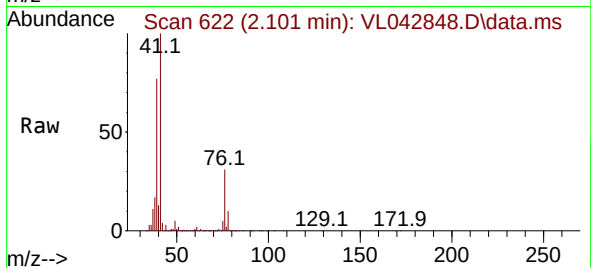
Tgt Ion: 84 Resp: 77749
Ion Ratio Lower Upper
84 100
49 143.1 112.3 168.5
51 42.5 36.0 54.0
86 62.8 52.0 78.0





#21
 Allyl Chloride
 Concen: 13.703 ppbv
 RT: 2.101 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

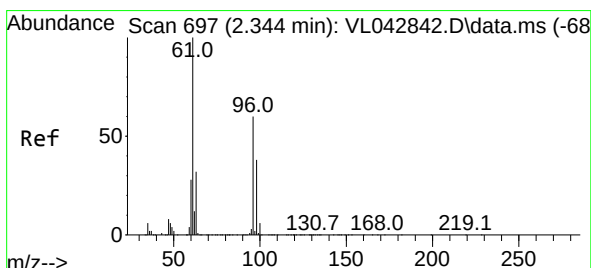
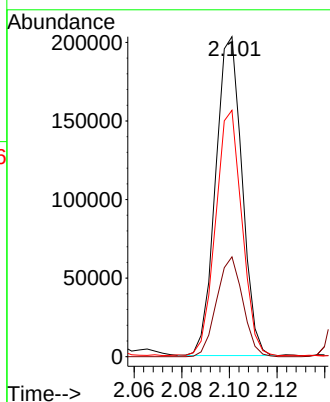
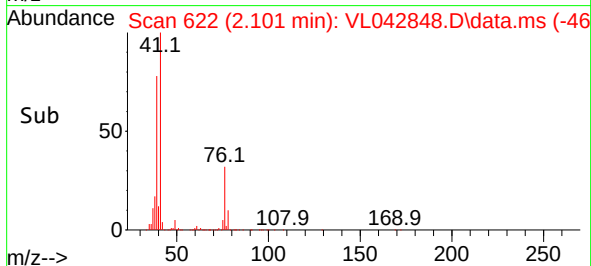
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 41 Resp: 156318
 Ion Ratio Lower Upper
 41 100
 76 30.9 23.9 35.9
 39 76.9 57.8 86.6

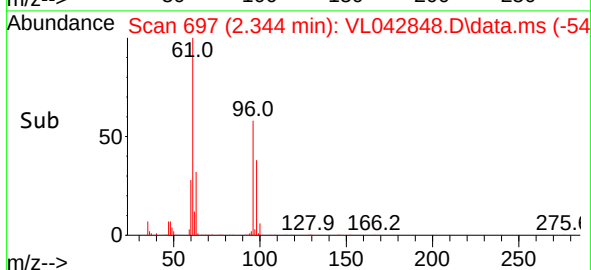
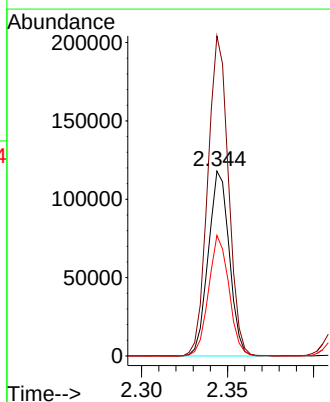
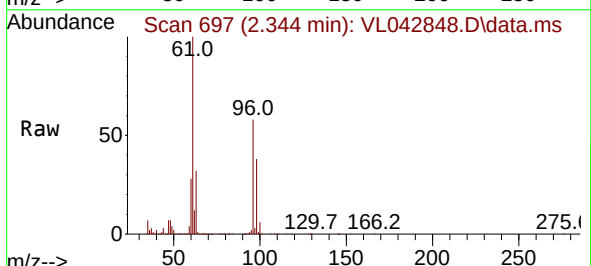
Manual Integrations
 APPROVED

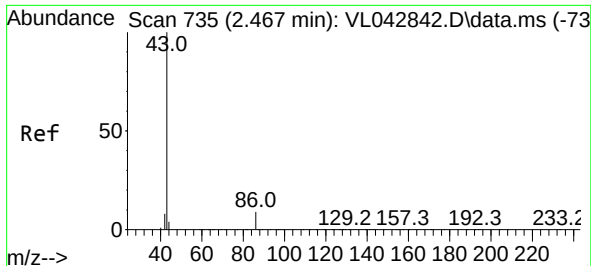
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#22
 trans-1,2-Dichloroethene
 Concen: 14.465 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 96 Resp: 100064
 Ion Ratio Lower Upper
 96 100
 61 173.1 132.6 199.0
 98 65.2 50.0 75.0





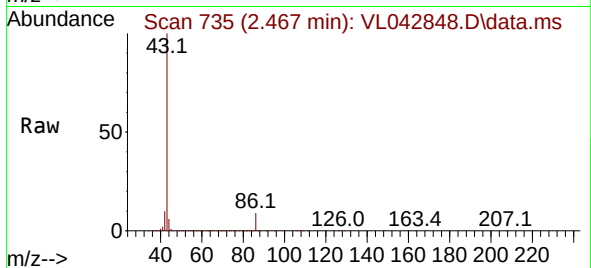
#23
 Vinyl Acetate
 Concen: 14.557 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



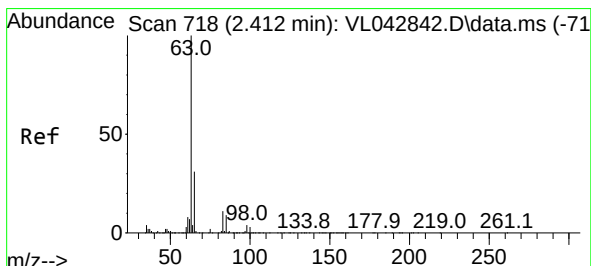
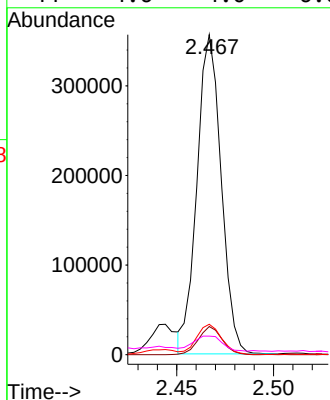
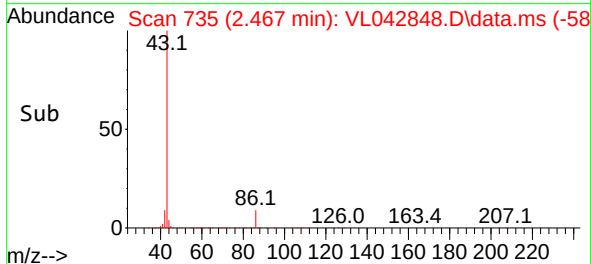
Tgt Ion: 43 Resp: 309230

Ion	Ratio	Lower	Upper
43	100		
86	8.8	6.6	9.8
42	9.4	7.0	10.6
44	4.6	4.0	6.0

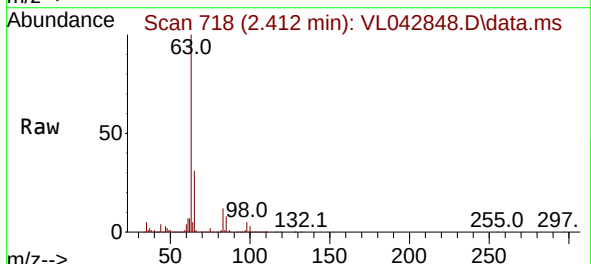
Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

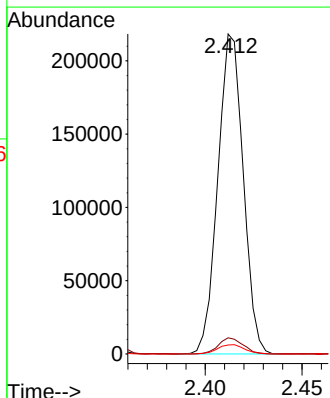
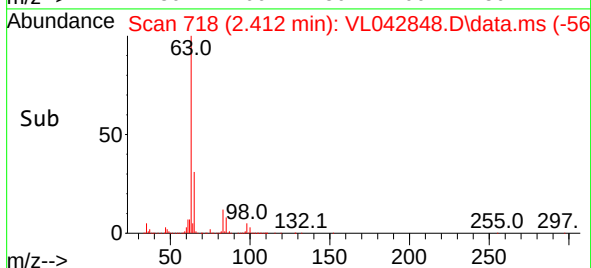


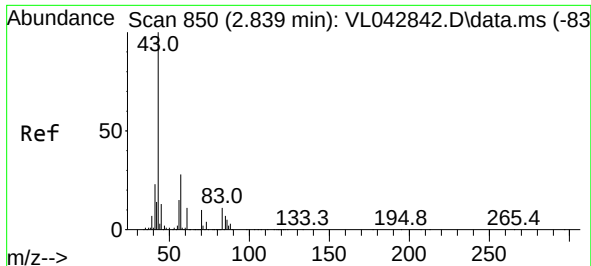
#24
 1,1-Dichloroethane
 Concen: 13.944 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06



Tgt Ion: 63 Resp: 199276

Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.1	6.5
100	2.8	1.7	5.1





#25
Ethyl Acetate
Concen: 13.653 ppbv
RT: 2.839 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

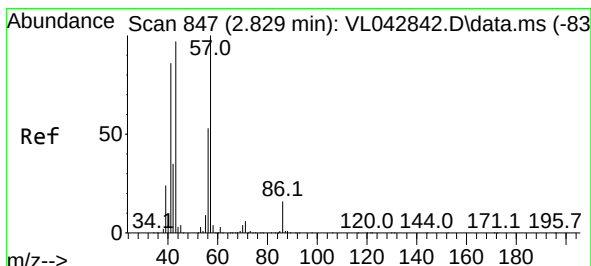
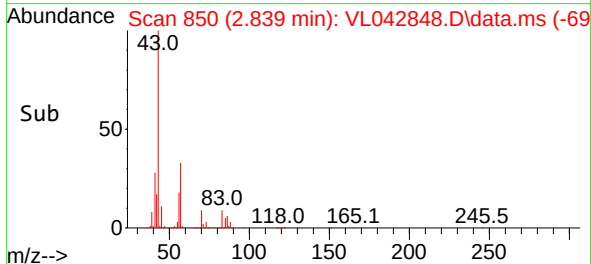
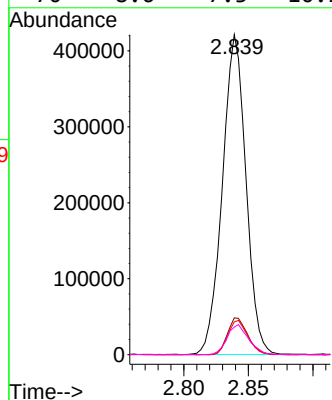
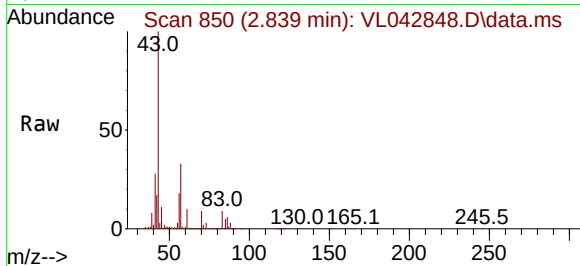
VSTDICC015

Tgt Ion: 43 Resp: 533600
Ion Ratio Lower Upper
43 100
45 10.0 8.1 12.1
61 9.2 7.4 11.2
70 8.6 7.3 10.9

Manual Integrations

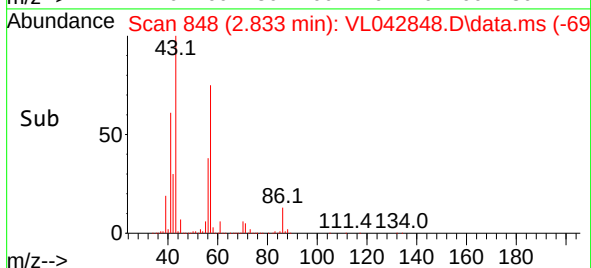
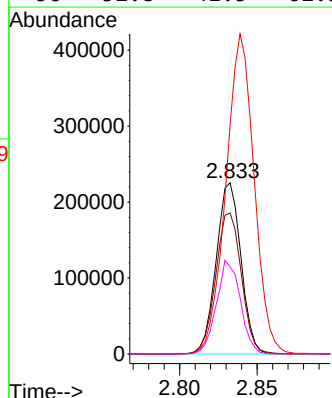
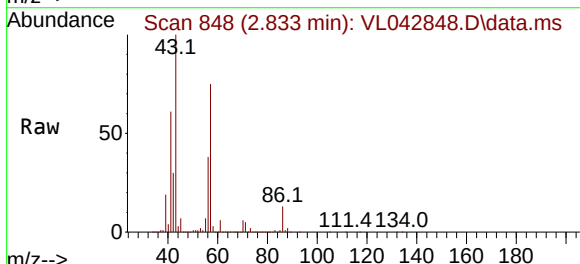
APPROVED

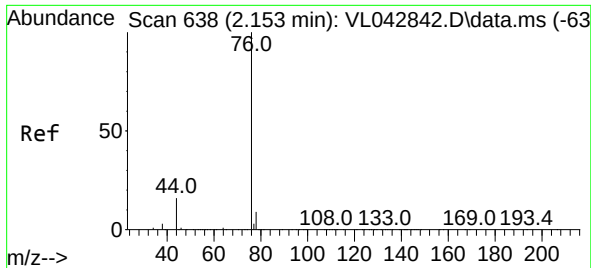
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#26
Hexane
Concen: 13.869 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

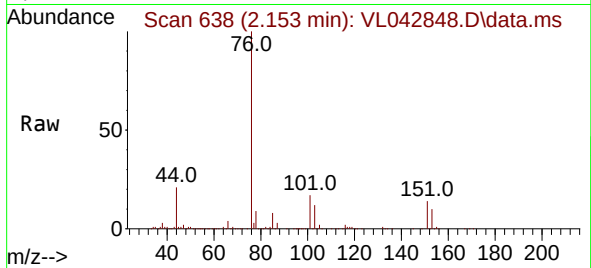
Tgt Ion: 57 Resp: 250189
Ion Ratio Lower Upper
57 100
41 85.8 68.6 103.0
43 214.3 168.5 252.7
56 52.8 41.5 62.3





#27
Carbon Disulfide
Concen: 14.062 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

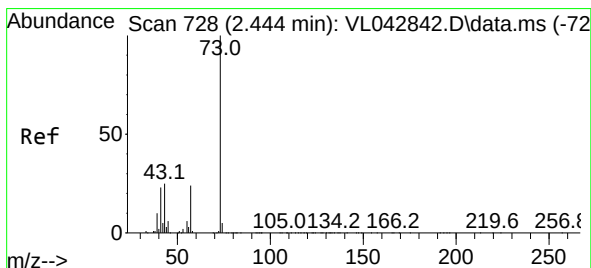
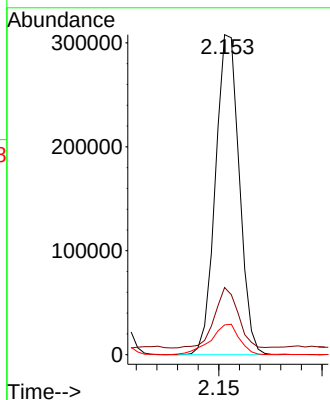
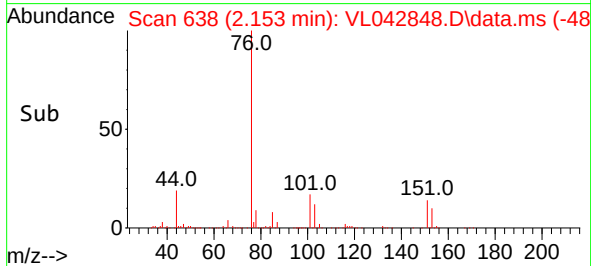
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



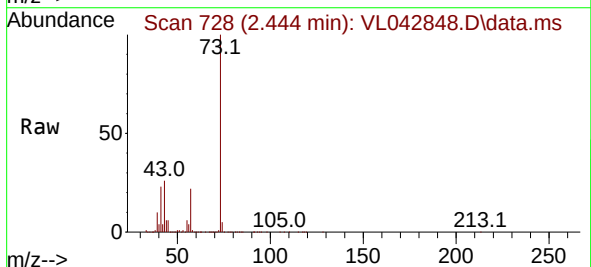
Tgt Ion: 76 Resp: 24686
Ion Ratio Lower Upper
76 100
44 19.7 15.9 23.9
78 11.4 9.5 14.3

Manual Integrations
APPROVED

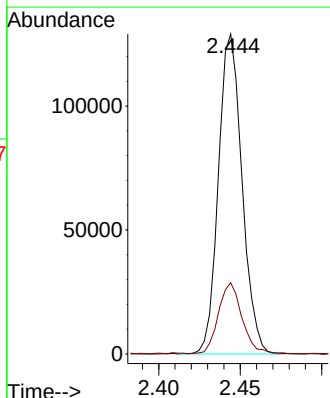
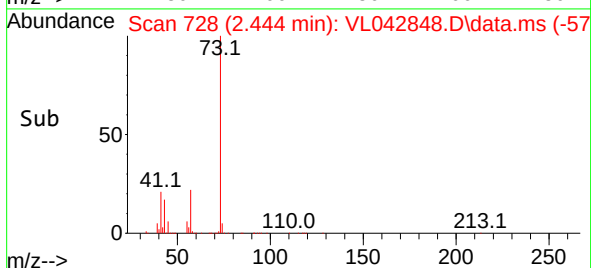
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

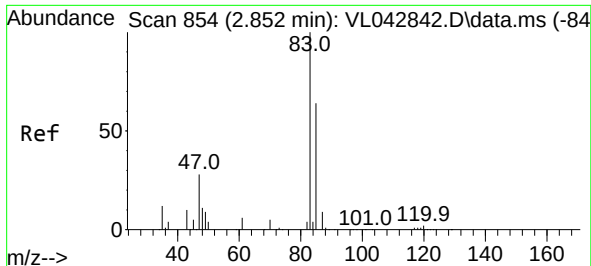


#28
Methyl tert-Butyl Ether
Concen: 14.131 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



Tgt Ion: 73 Resp: 129978
Ion Ratio Lower Upper
73 100
57 22.5 21.6 32.4





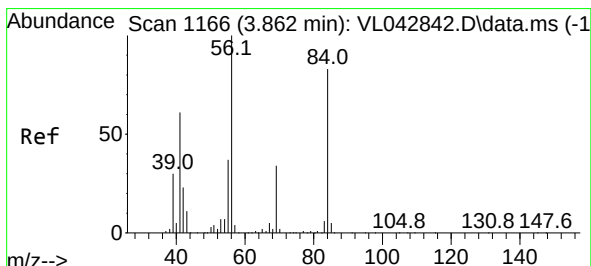
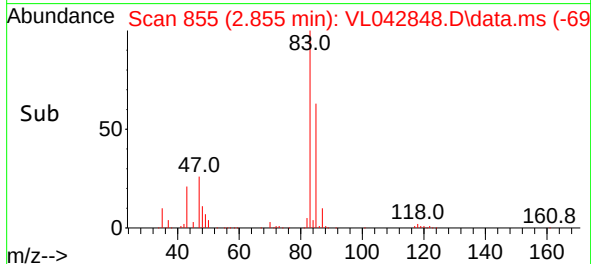
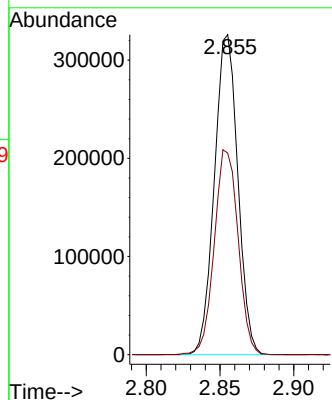
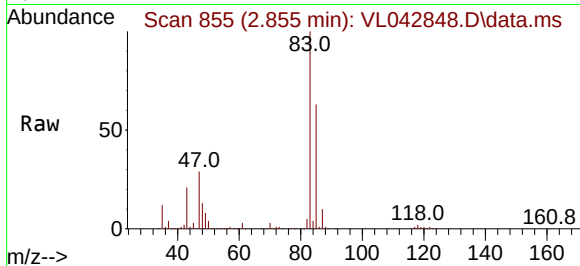
#29
Chloroform
Concen: 14.003 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 83 Resp: 36066
Ion Ratio Lower Upper
83 100
85 63.0 51.1 76.7

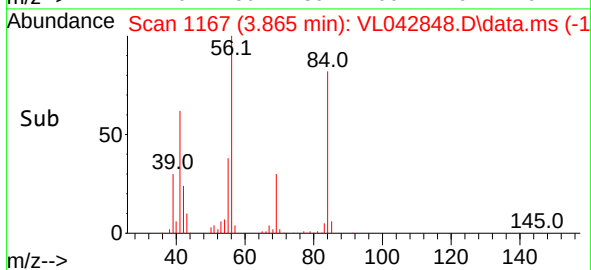
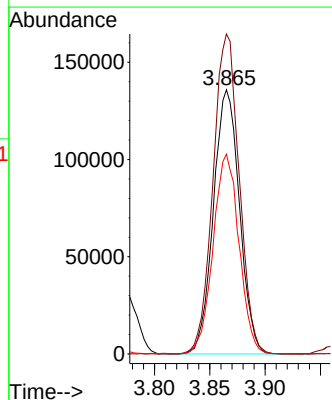
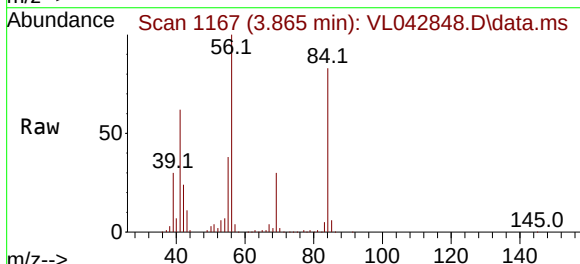
Manual Integrations
APPROVED

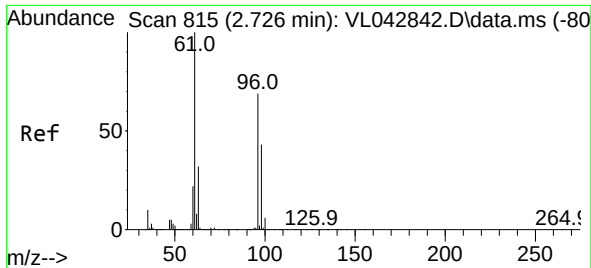
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#30
Cyclohexane
Concen: 14.088 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

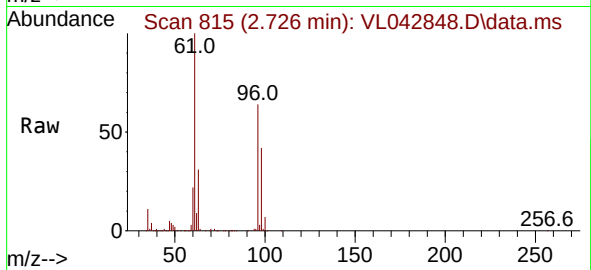
Tgt Ion: 84 Resp: 222820
Ion Ratio Lower Upper
84 100
56 121.5 98.8 148.2
41 75.1 61.3 91.9





#31
 cis-1,2-Dichloroethene
 Concen: 13.821 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

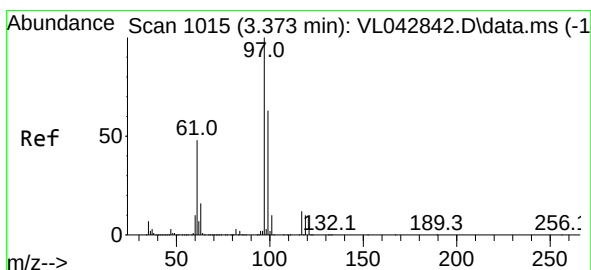
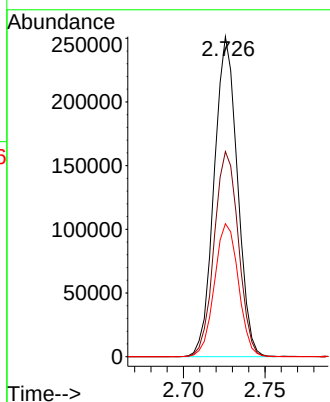
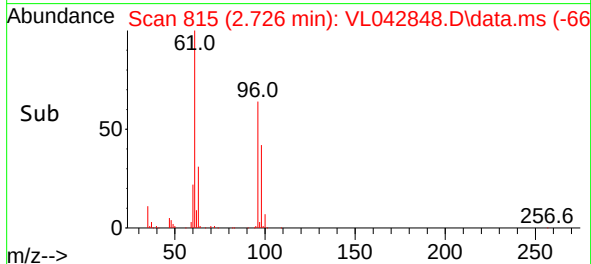
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



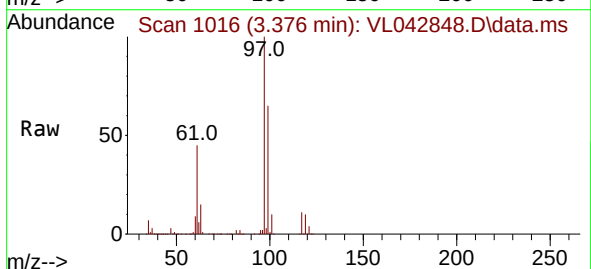
Tgt Ion: 61 Resp: 249370
 Ion Ratio Lower Upper
 61 100
 96 64.1 55.0 82.6
 98 41.6 34.3 51.5

Manual Integrations
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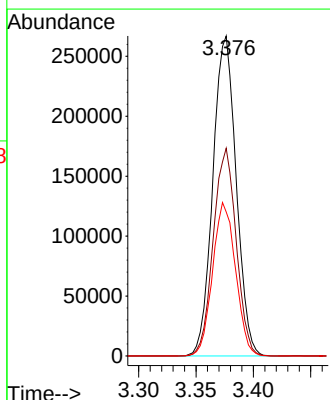
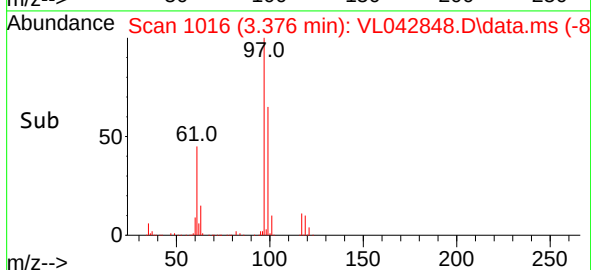
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

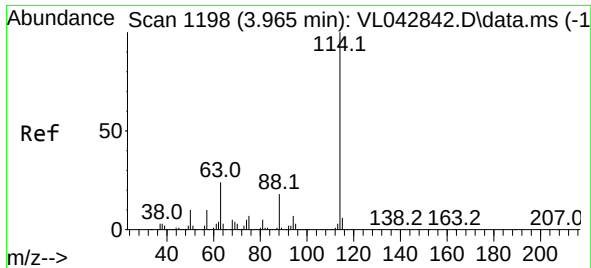


#32
 1,1,1-Trichloroethane
 Concen: 13.851 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06



Tgt Ion: 97 Resp: 377739
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.6
 61 47.2 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

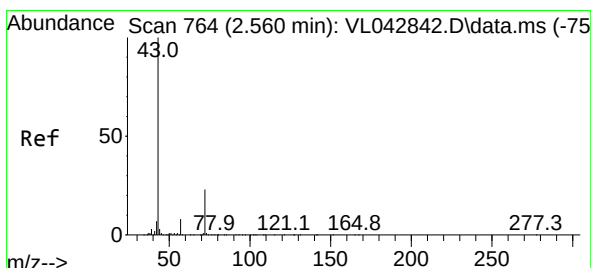
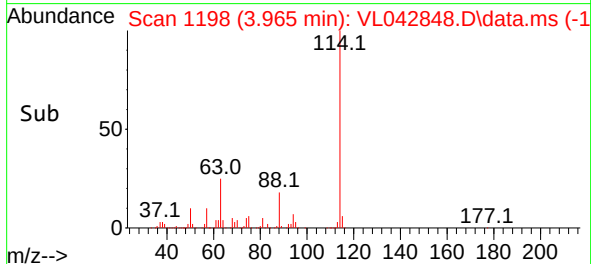
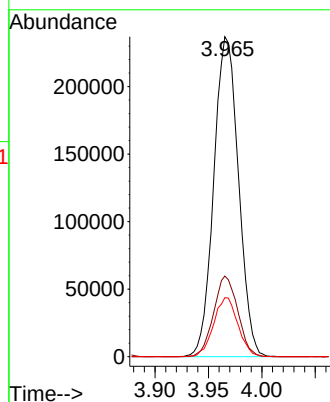
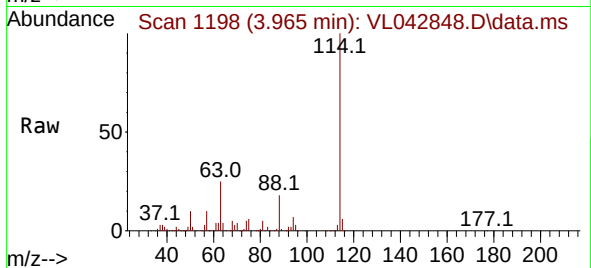
VSTDIC015

Tgt Ion:	114	Resp:	38087
Ion Ratio	Lower	Upper	
114	100		
63	24.6	19.7	29.5
88	18.1	14.4	21.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#34

2-Butanone

Concen: 13.563 ppbv

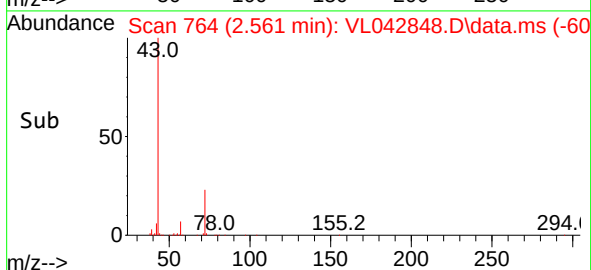
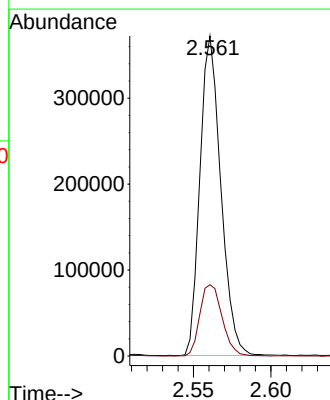
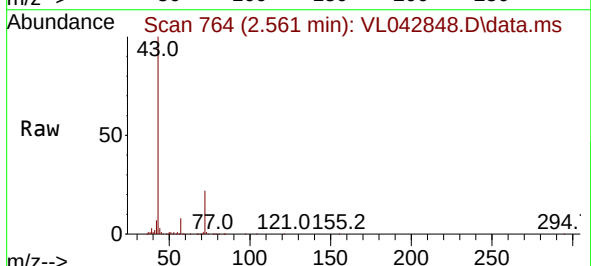
RT: 2.561 min Scan# 764

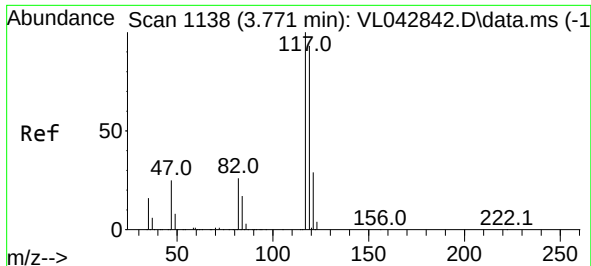
Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

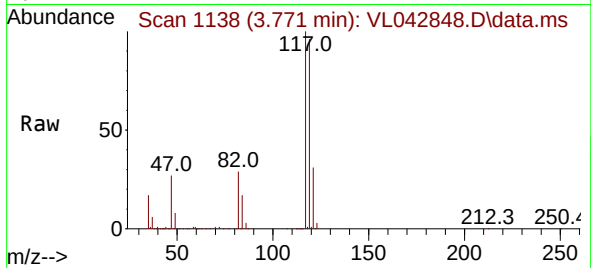
Tgt Ion:	43	Resp:	348815
Ion Ratio	Lower	Upper	
43	100		
72	23.8	18.6	28.0





#35
Carbon Tetrachloride
Concen: 13.990 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

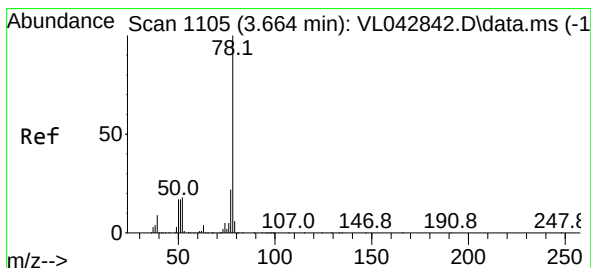
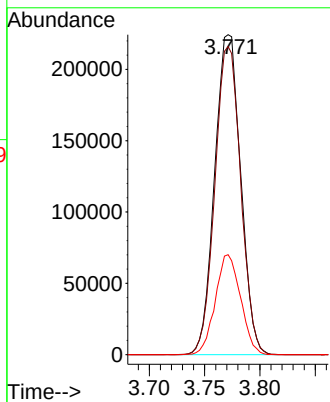
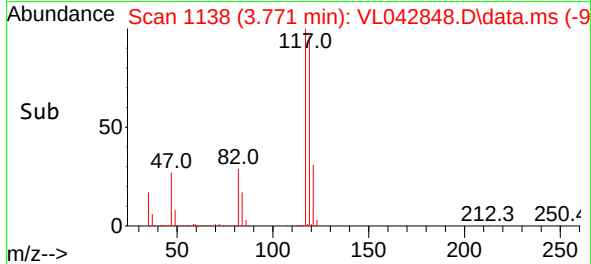
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



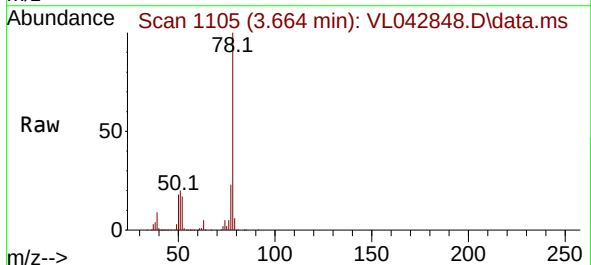
Tgt Ion:117 Resp: 367354
Ion Ratio Lower Upper
117 100
119 96.3 74.7 112.1
121 31.2 23.2 34.8

Manual Integrations
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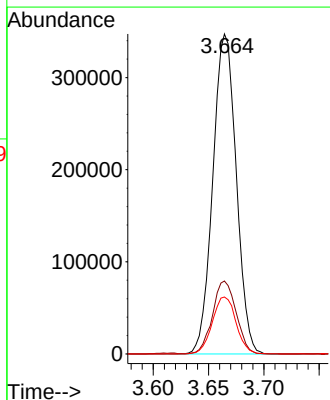
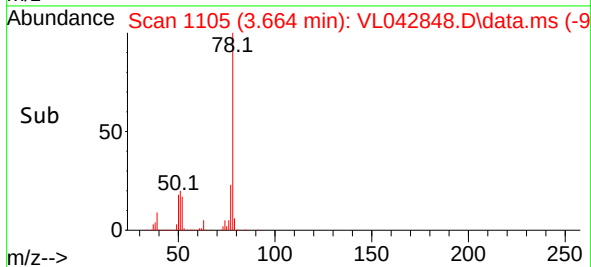
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

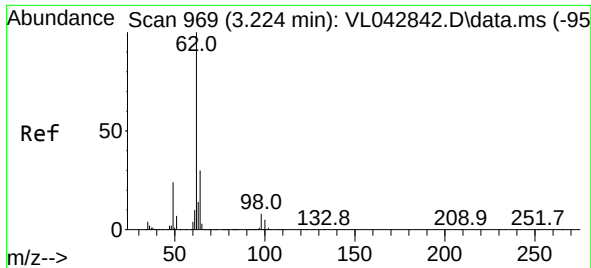


#36
Benzene
Concen: 14.033 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



Tgt Ion: 78 Resp: 511811
Ion Ratio Lower Upper
78 100
77 22.8 17.7 26.5
50 17.8 13.9 20.9





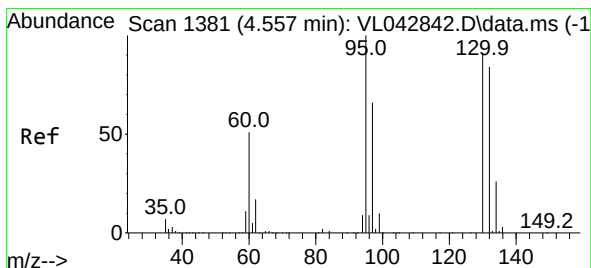
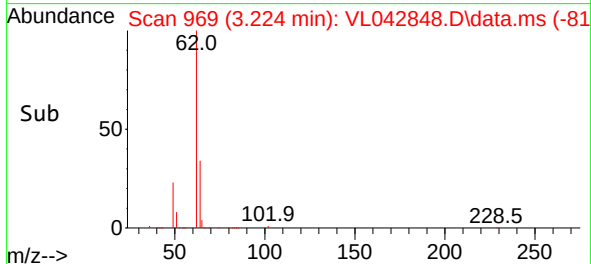
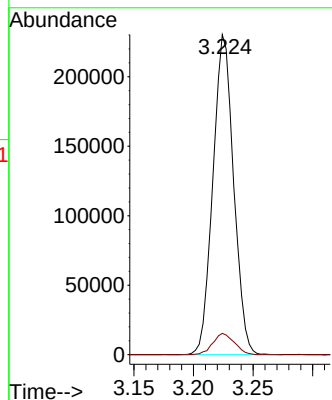
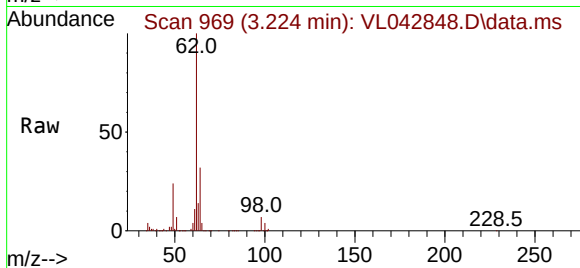
#37
1,2-Dichloroethane
Concen: 14.639 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 278934
Ion Ratio Lower Upper
62 100
98 6.9 5.9 8.9

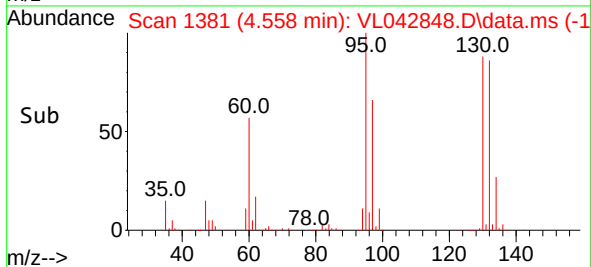
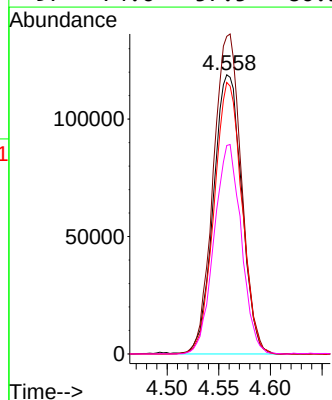
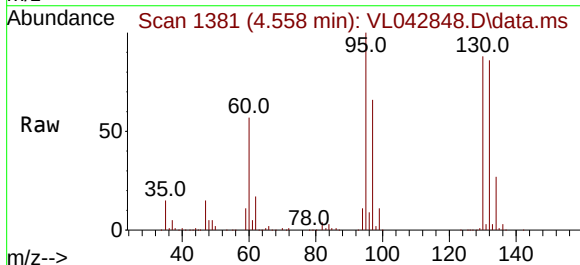
Manual Integrations
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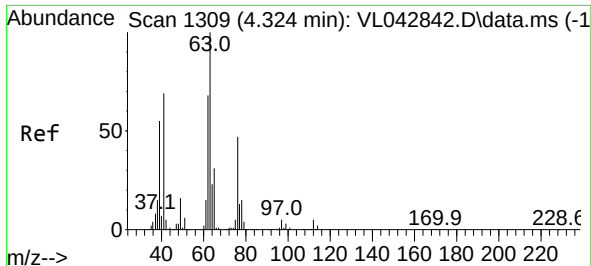
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#38
Trichloroethene
Concen: 13.634 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:130 Resp: 227091
Ion Ratio Lower Upper
130 100
95 113.8 87.6 131.4
132 97.3 73.8 110.8
97 74.6 57.5 86.3





#39

1,2-Dichloropropane

Concen: 13.984 ppbv

RT: 4.325 min Scan# 1309

Delta R.T. 0.000 min

Lab File: VL042848.D

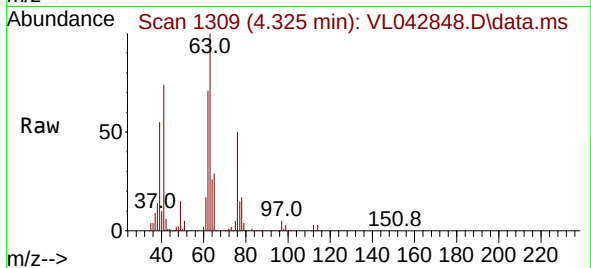
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



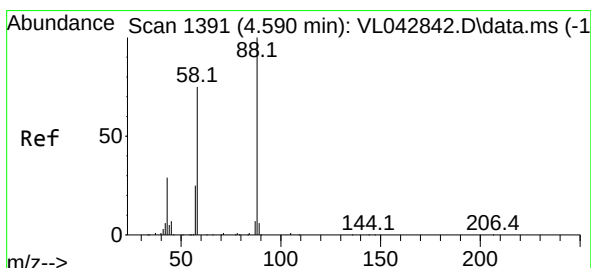
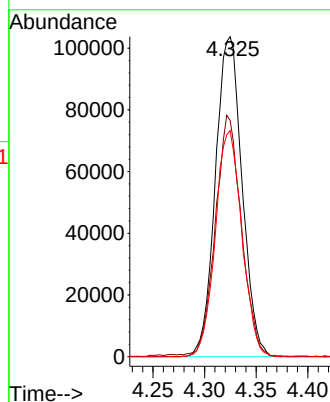
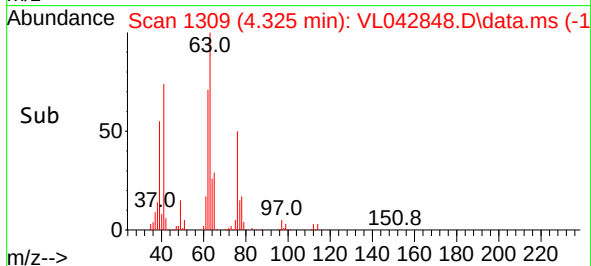
Tgt Ion:	63	Resp:	18627
Ion	Ratio	Lower	Upper
63	100		
41	73.5	55.0	82.4
62	70.6	54.4	81.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#40

1,4-Dioxane

Concen: 13.212 ppbv

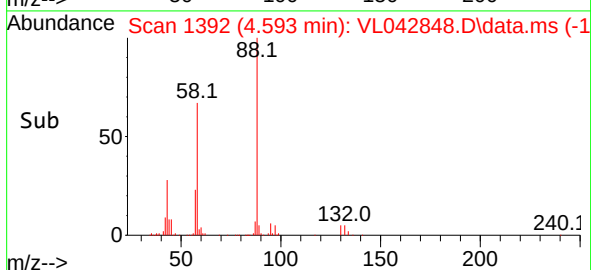
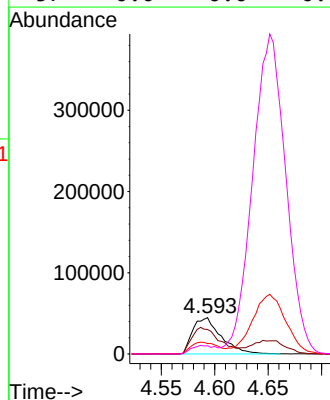
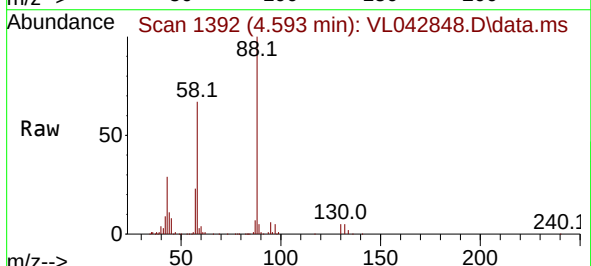
RT: 4.593 min Scan# 1392

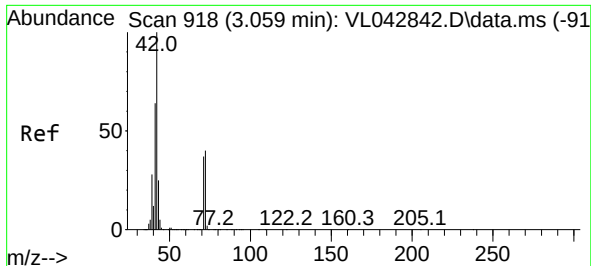
Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

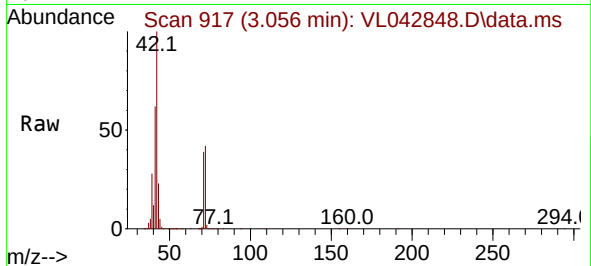
Tgt Ion:	88	Resp:	82385
Ion	Ratio	Lower	Upper
88	100		
58	73.5	53.8	80.6
43	33.9	22.8	34.2
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 14.001 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

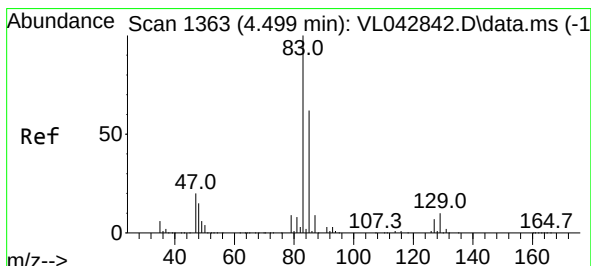
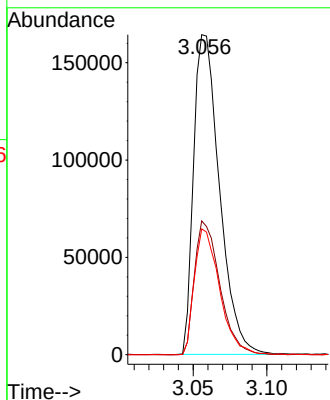
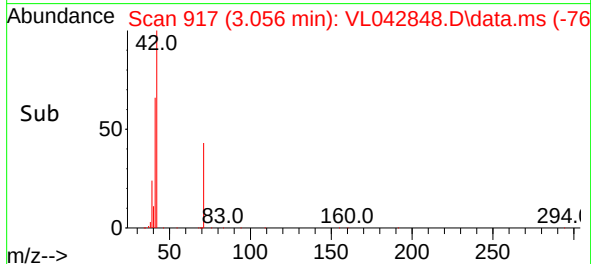
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 42 Resp: 20075
Ion Ratio Lower Upper
42 100
72 41.0 32.6 48.8
71 38.4 30.0 45.0

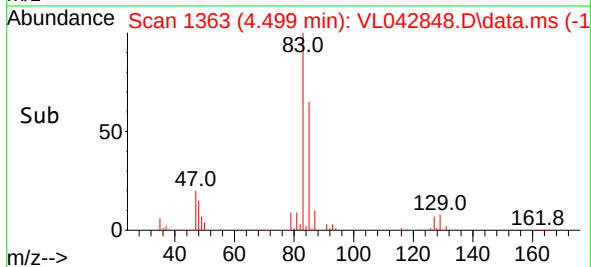
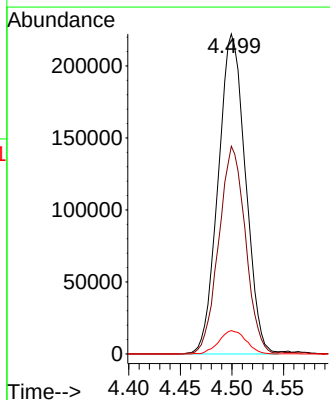
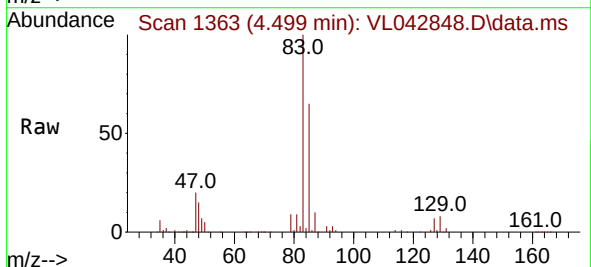
Manual Integrations
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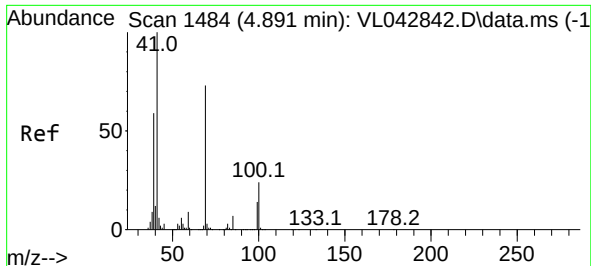
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#42
Bromodichloromethane
Concen: 14.372 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 83 Resp: 408089
Ion Ratio Lower Upper
83 100
85 64.9 49.8 74.8
127 7.3 5.8 8.6





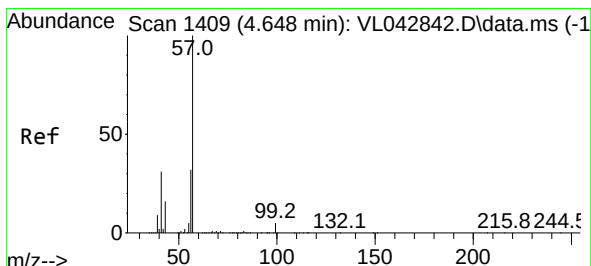
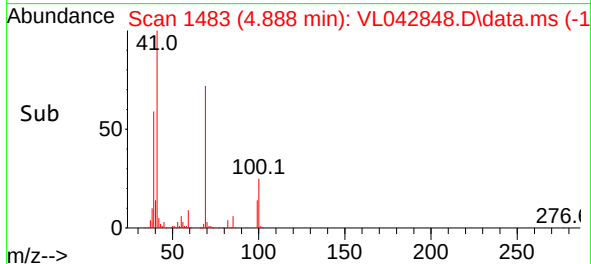
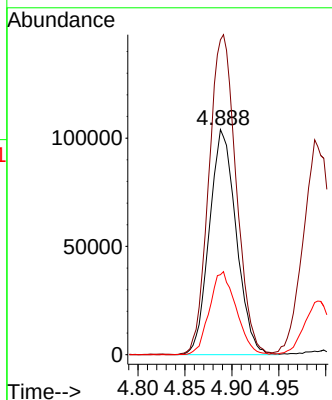
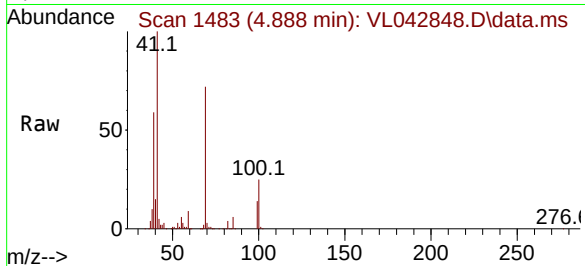
#43
Methyl Methacrylate
Concen: 13.808 ppbv
RT: 4.888 min Scan# 1483
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 69 Resp: 206590
Ion Ratio Lower Upper
69 100
41 144.8 114.6 172.0
100 36.8 30.2 45.4

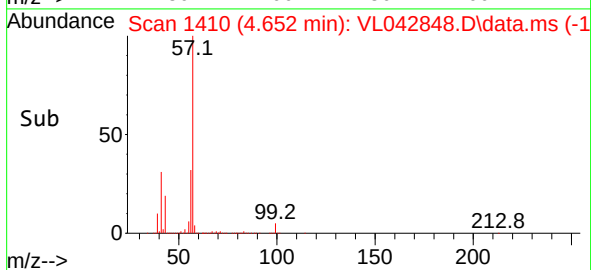
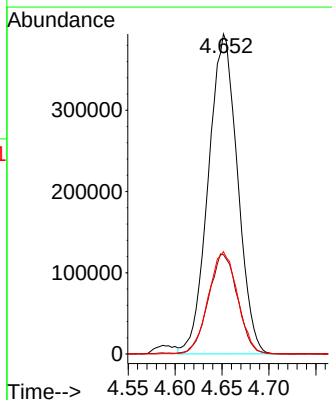
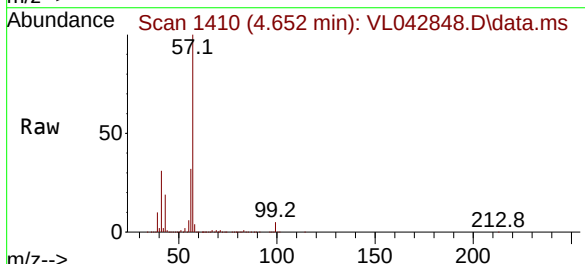
Manual Integrations
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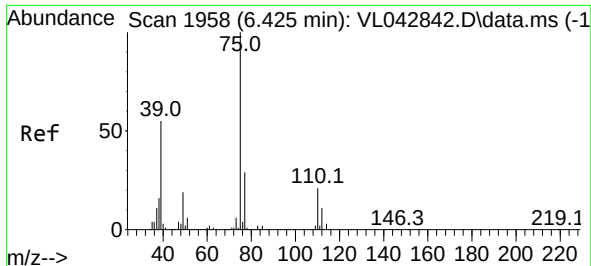
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#44
2,2,4-Trimethylpentane
Concen: 13.895 ppbv
RT: 4.652 min Scan# 1410
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

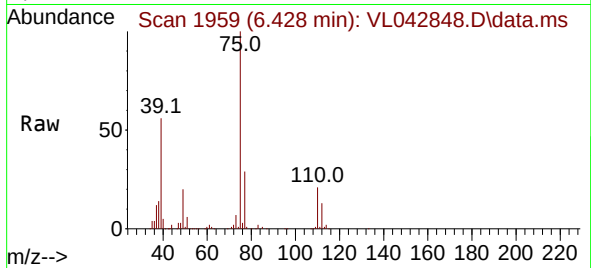
Tgt Ion: 57 Resp: 850847
Ion Ratio Lower Upper
57 100
41 31.5 24.8 37.2
56 32.1 25.5 38.3





#45
 t-1,3-Dichloropropene
 Concen: 14.387 ppbv
 RT: 6.428 min Scan# 1958
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

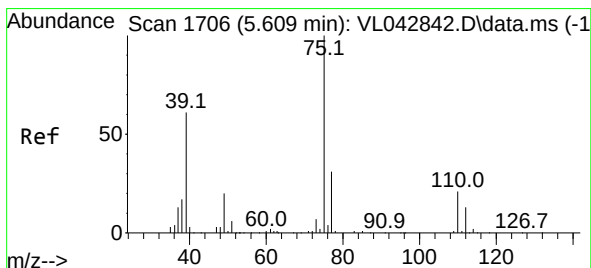
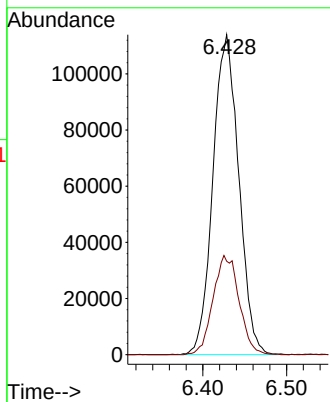
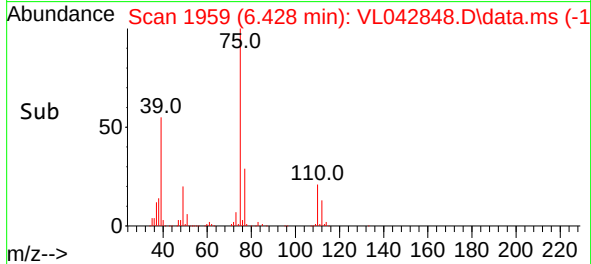
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 75 Resp: 244117
 Ion Ratio Lower Upper
 75 100
 77 29.2 23.8 35.6

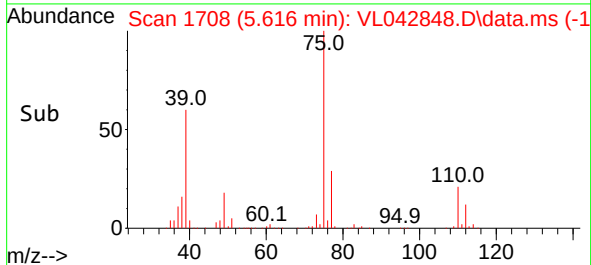
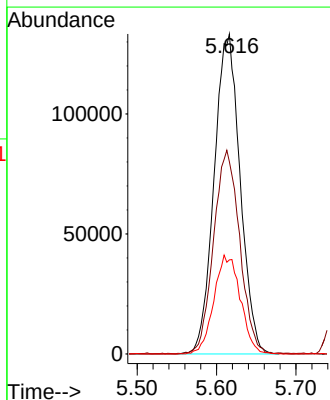
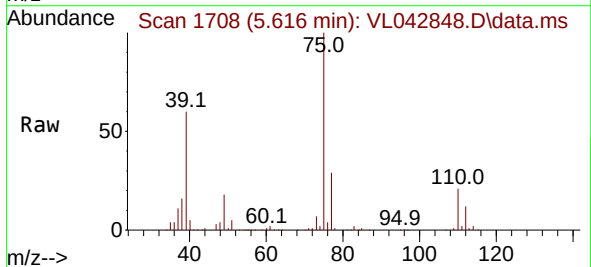
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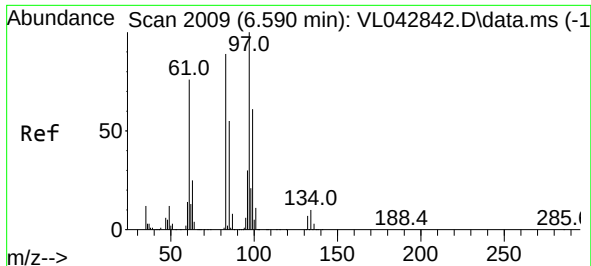
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#46
 cis-1,3-Dichloropropene
 Concen: 14.191 ppbv
 RT: 5.616 min Scan# 1708
 Delta R.T. 0.007 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

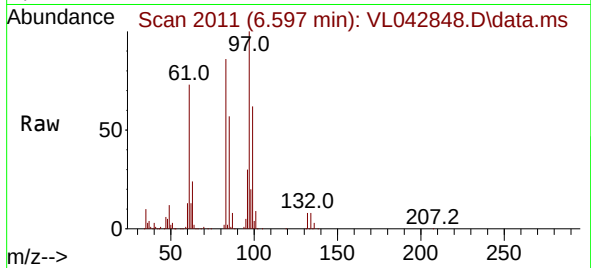
Tgt Ion: 75 Resp: 302339
 Ion Ratio Lower Upper
 75 100
 39 59.9 48.9 73.3
 77 29.4 24.9 37.3





#47
1,1,2-Trichloroethane
Concen: 14.118 ppbv
RT: 6.597 min Scan# 2009
Delta R.T. 0.007 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

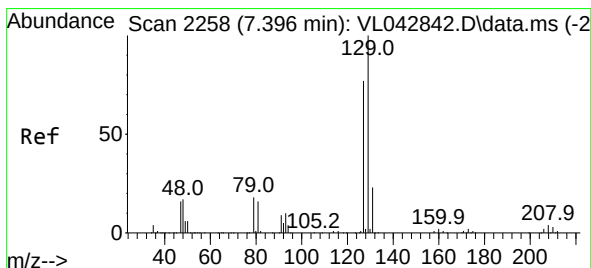
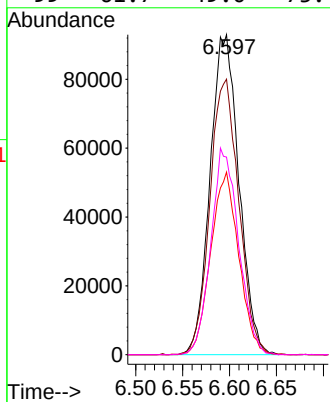
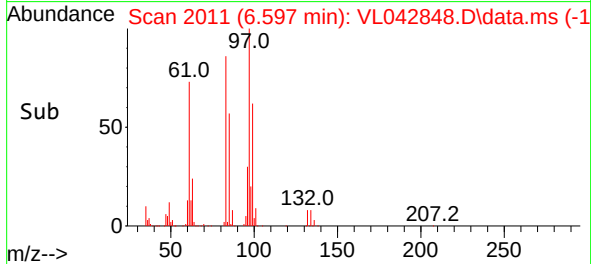
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 97 Resp: 19906
Ion Ratio Lower Upper
97 100
83 86.0 71.0 106.4
85 57.0 43.6 65.4
99 61.7 49.0 73.4

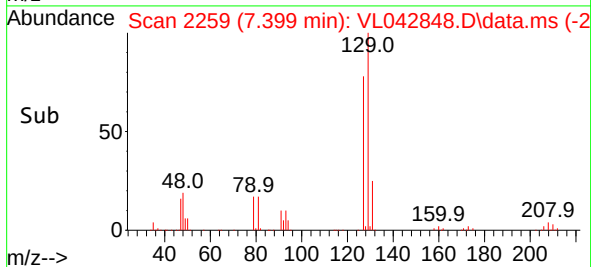
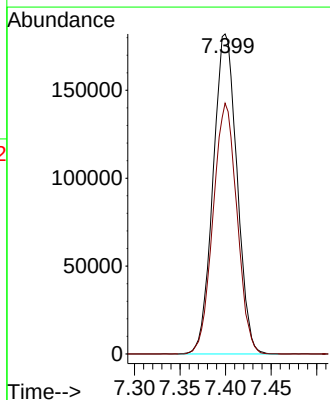
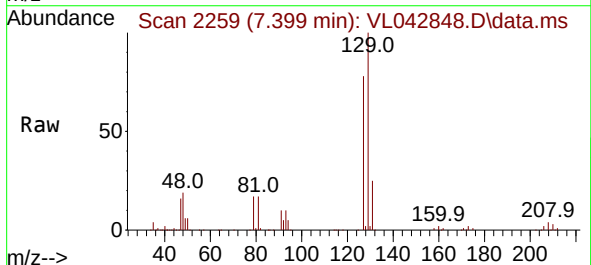
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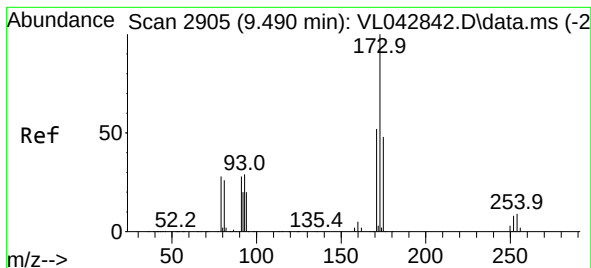
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#48
Dibromochloromethane
Concen: 14.535 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:129 Resp: 331947
Ion Ratio Lower Upper
129 100
127 78.4 39.4 118.2





#49

Bromoform

Concen: 14.162 ppbv

RT: 9.494 min Scan# 2905

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

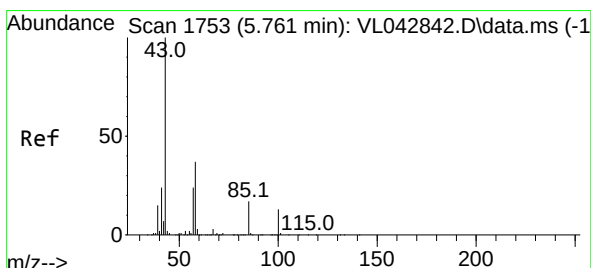
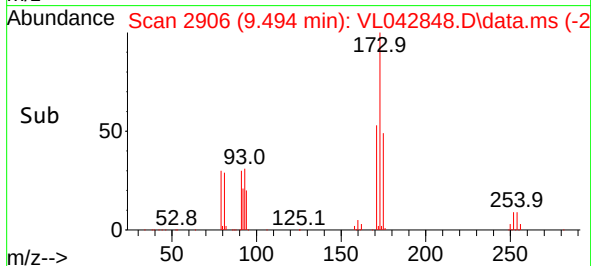
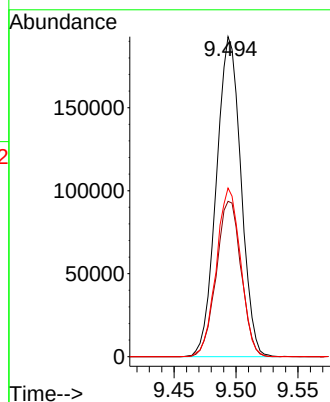
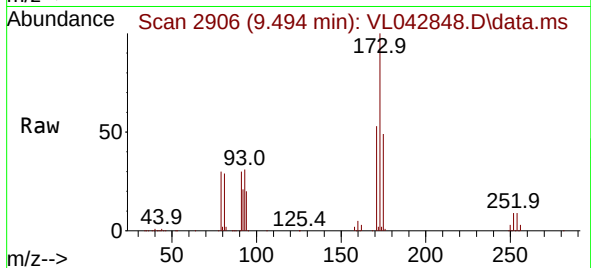
VSTDICC015

Tgt Ion:173 Resp: 266732
 Ion Ratio Lower Upper
 173 100
 175 49.2 39.2 58.8
 171 52.1 41.3 61.9

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Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#50

4-Methyl-2-Pentanone

Concen: 14.073 ppbv

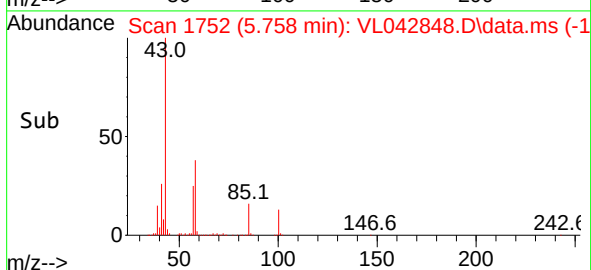
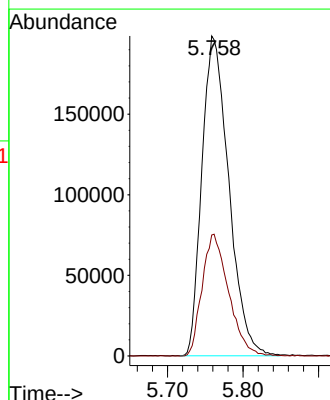
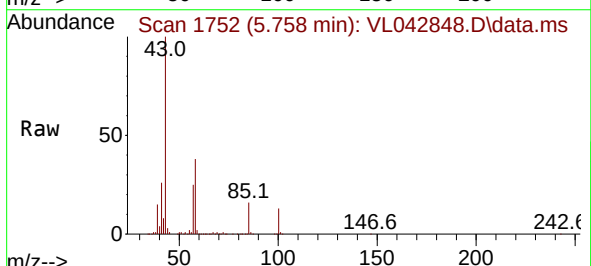
RT: 5.758 min Scan# 1752

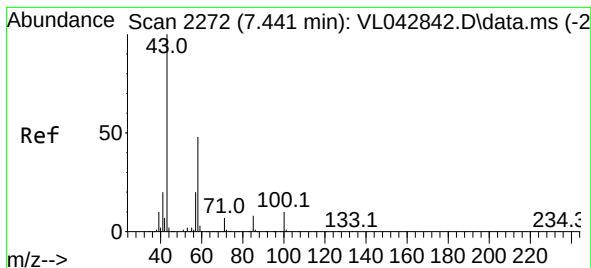
Delta R.T. -0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Tgt Ion: 43 Resp: 490917
 Ion Ratio Lower Upper
 43 100
 58 37.5 29.8 44.8





#51

2-Hexanone

Concen: 14.255 ppbv

RT: 7.448 min Scan# 21

Delta R.T. 0.007 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 43 Resp: 389940

Ion Ratio Lower Upper

43 100

58 51.6 41.0 61.6

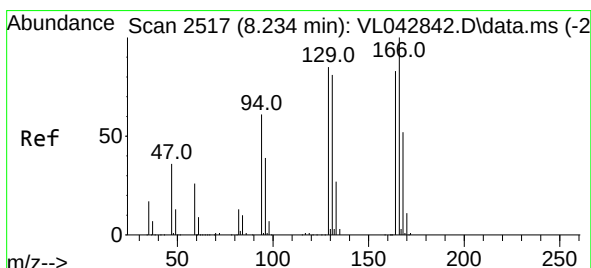
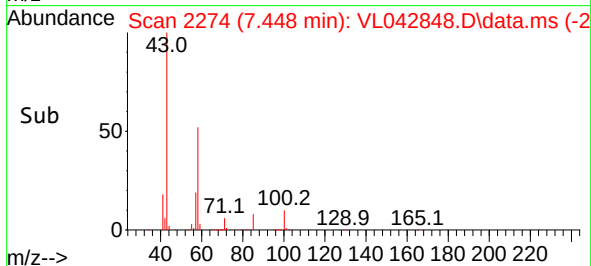
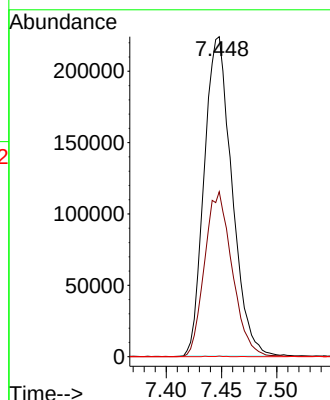
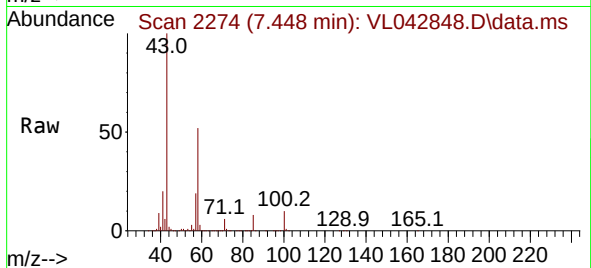
98 0.1 0.1 0.1

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#52

Tetrachloroethene

Concen: 12.772 ppbv

RT: 8.238 min Scan# 2518

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Tgt Ion:164 Resp: 168712

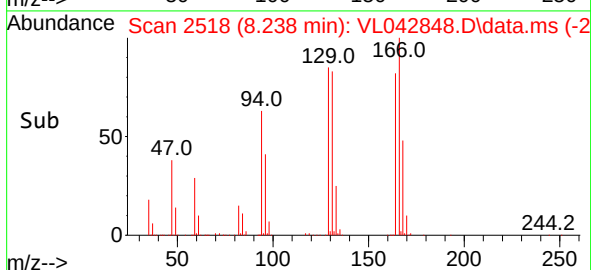
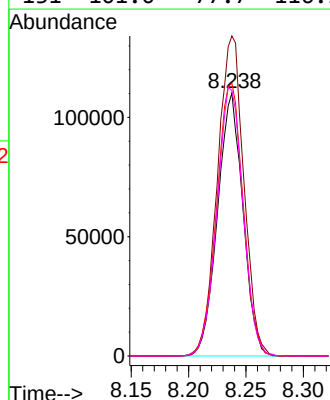
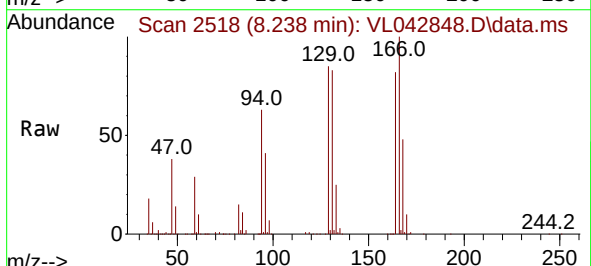
Ion Ratio Lower Upper

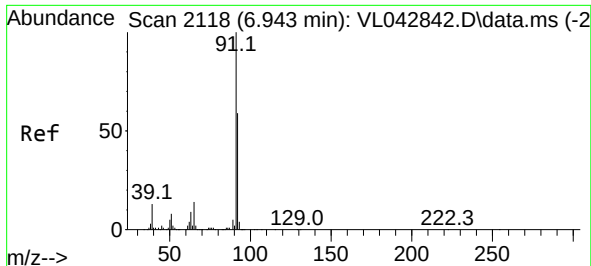
164 100

166 121.7 96.5 144.7

129 103.7 81.8 122.6

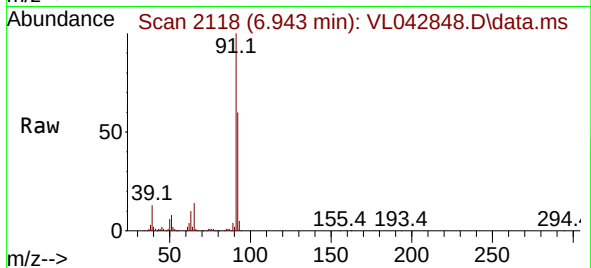
131 101.0 77.7 116.5





#53
Toluene
Concen: 13.961 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

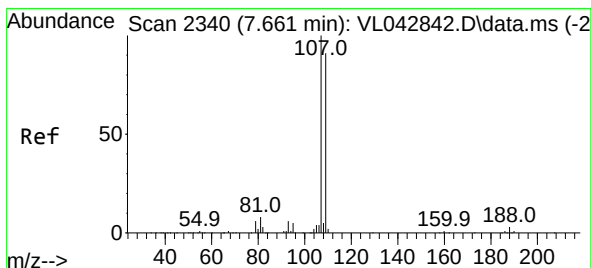
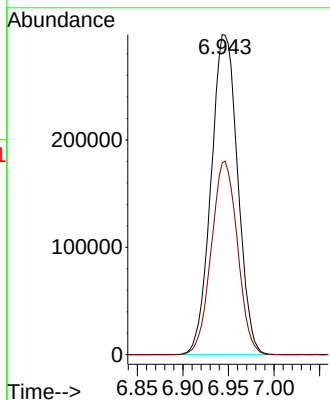
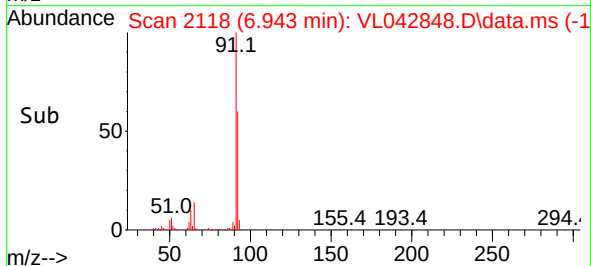
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



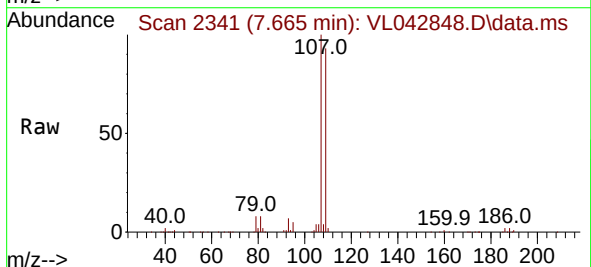
Tgt Ion: 91 Resp: 60594
Ion Ratio Lower Upper
91 100
92 59.4 47.8 71.6

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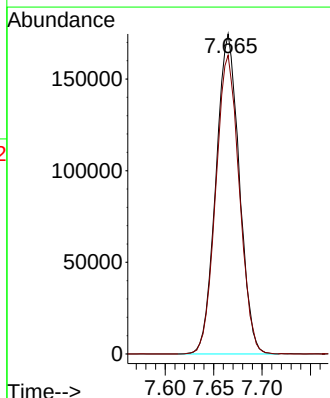
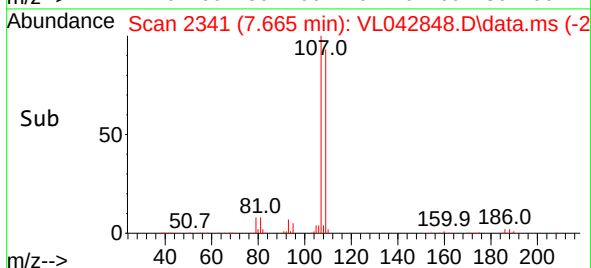
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

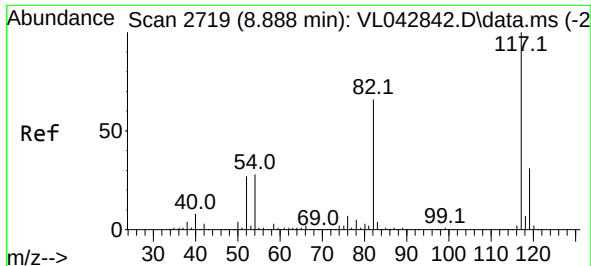


#54
1,2-Dibromoethane
Concen: 14.173 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



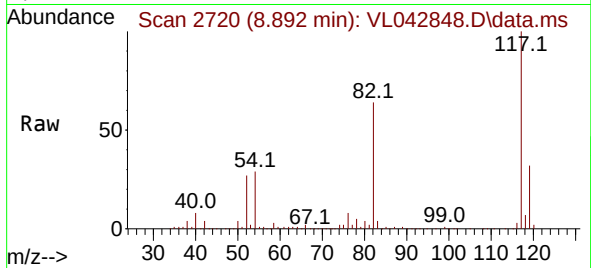
Tgt Ion:107 Resp: 292327
Ion Ratio Lower Upper
107 100
109 93.4 72.5 108.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

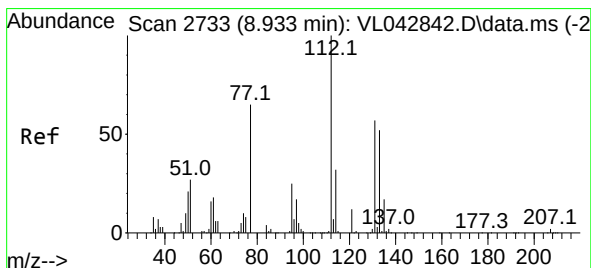
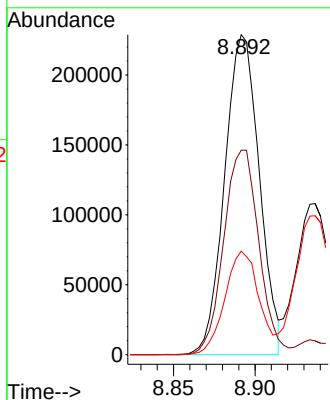
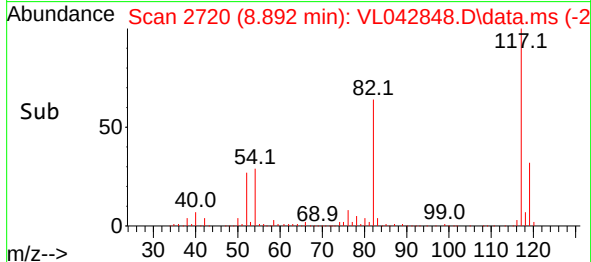
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:117 Resp: 337870
Ion Ratio Lower Upper
117 100
82 65.3 54.6 81.8
119 32.5 25.9 38.9

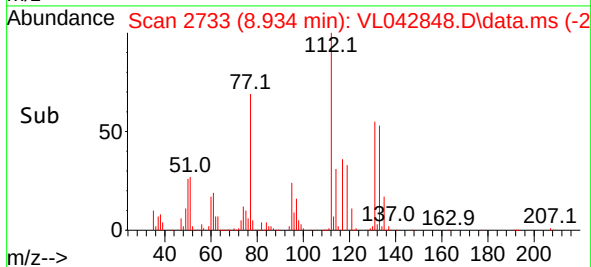
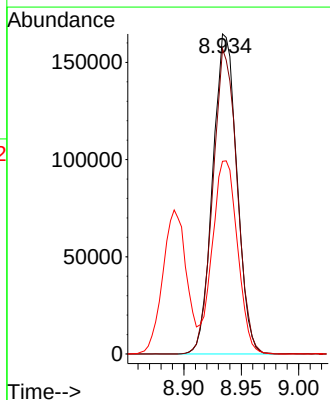
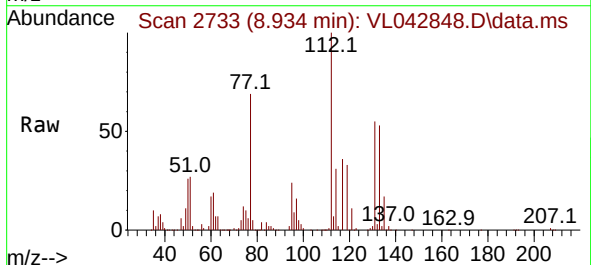
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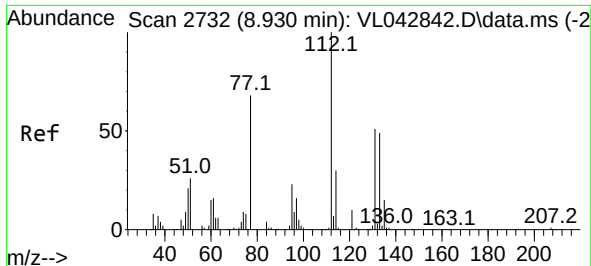
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 13.810 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

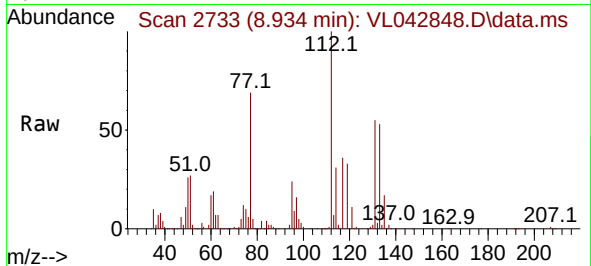
Tgt Ion:131 Resp: 241293
Ion Ratio Lower Upper
131 100
133 95.6 77.4 116.0
119 63.4 51.2 76.8





#57
Chlorobenzene
Concen: 13.668 ppbv
RT: 8.934 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

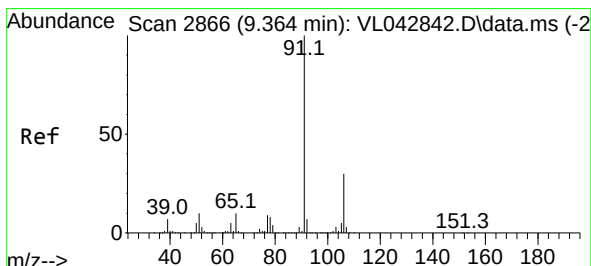
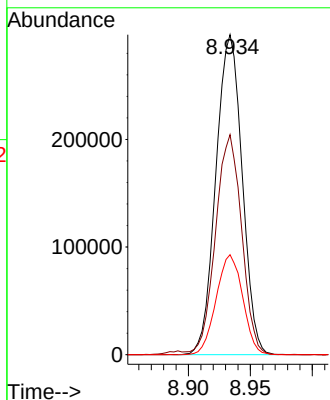
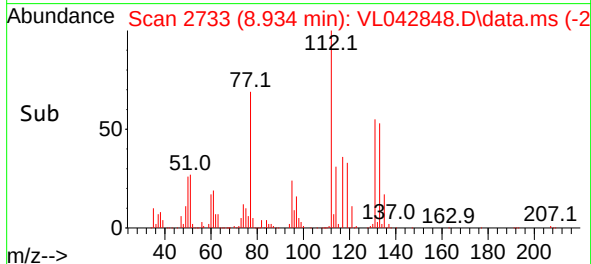
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



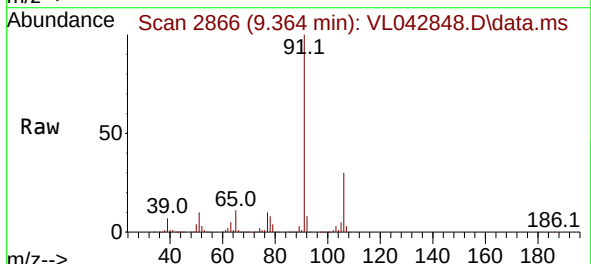
Tgt Ion:112 Resp: 439109
Ion Ratio Lower Upper
112 100
77 68.6 55.5 83.3
114 31.2 27.2 33.2

Manual Integrations
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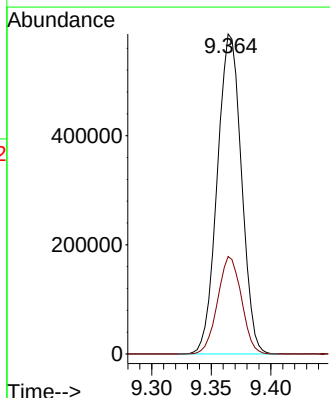
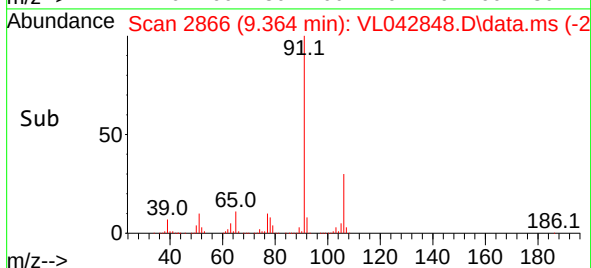
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

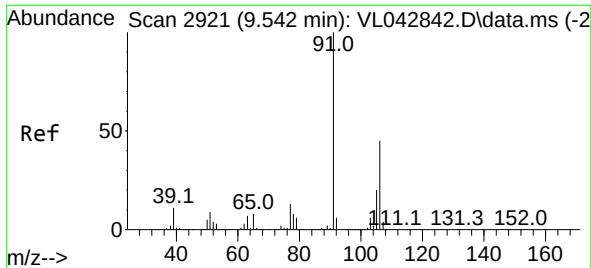


#58
Ethyl Benzene
Concen: 13.859 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



Tgt Ion: 91 Resp: 826316
Ion Ratio Lower Upper
91 100
106 30.5 23.9 35.9





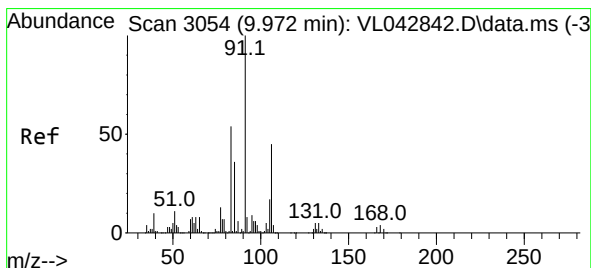
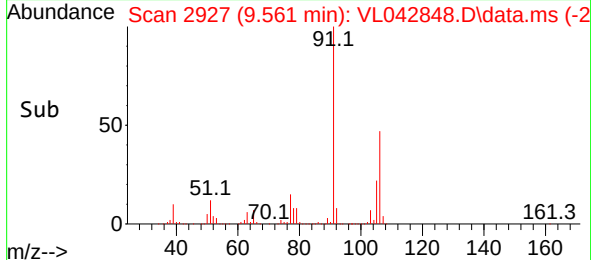
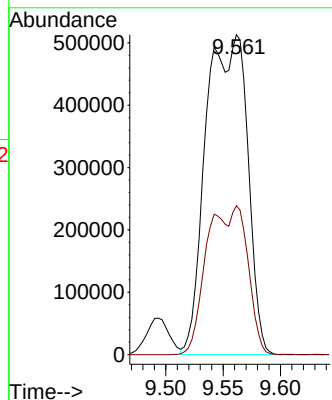
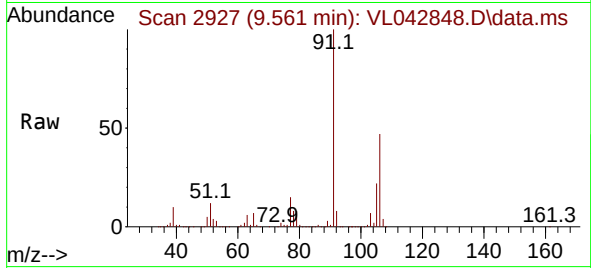
#59
m/p-Xylene
Concen: 27.650 ppbv m
RT: 9.561 min Scan# 2921
Delta R.T. 0.020 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 129438
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

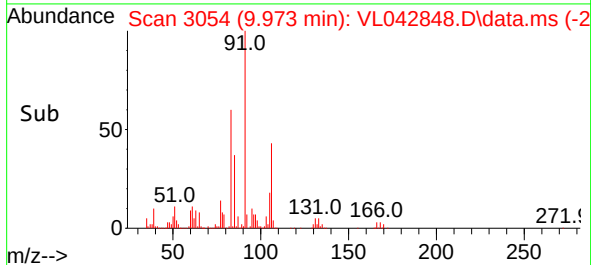
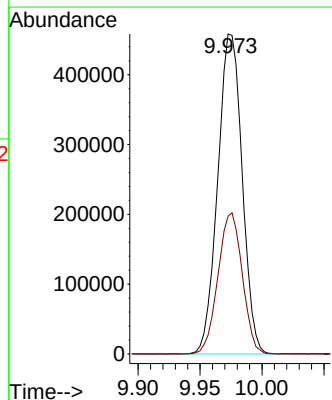
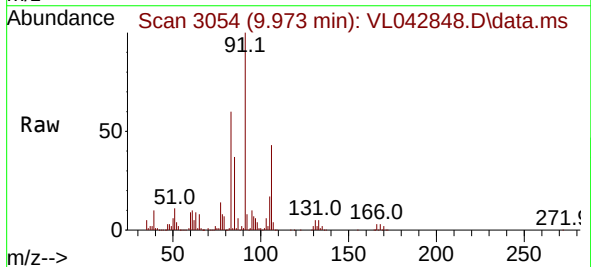
Manual Integrations
APPROVED

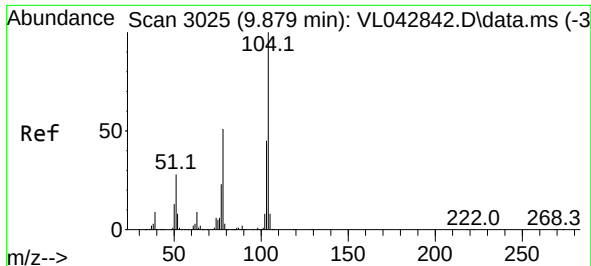
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#60
o-Xylene
Concen: 13.389 ppbv
RT: 9.973 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

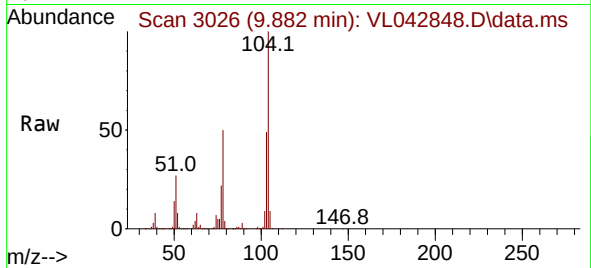
Tgt Ion: 91 Resp: 629445
Ion Ratio Lower Upper
91 100
106 43.9 21.8 65.4





#61
Styrene
Concen: 13.827 ppbv
RT: 9.882 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

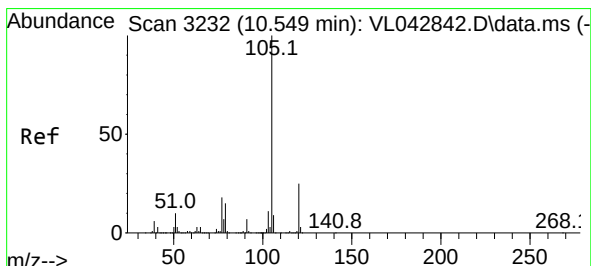
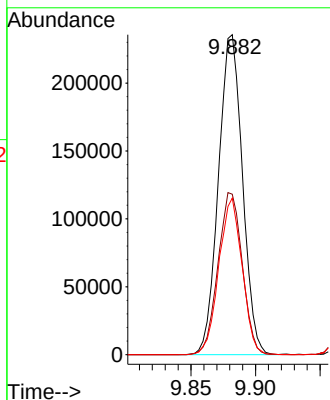
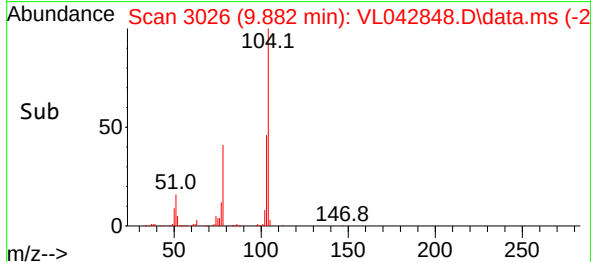
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



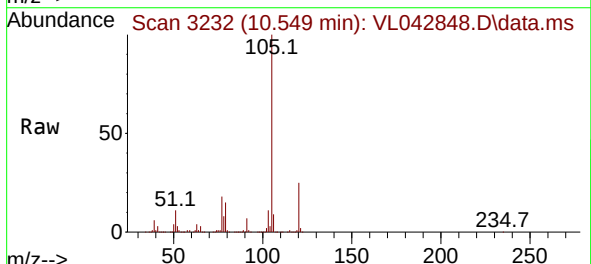
Tgt Ion:104 Resp: 304560
Ion Ratio Lower Upper
104 100
78 51.1 40.6 61.0
103 47.6 37.7 56.5

Manual Integrations
APPROVED

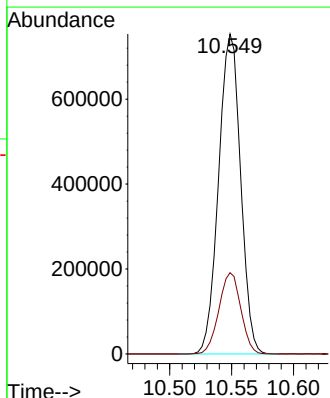
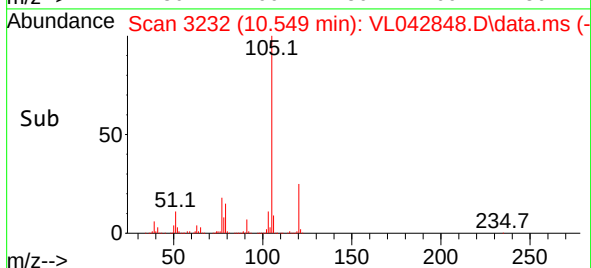
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

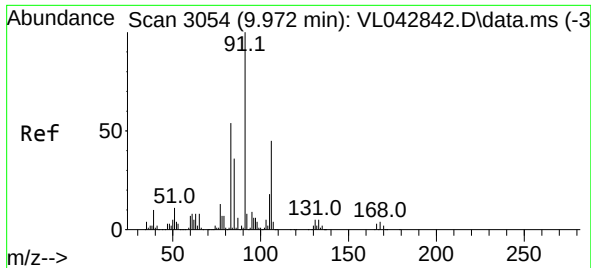


#62
Isopropylbenzene
Concen: 13.559 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



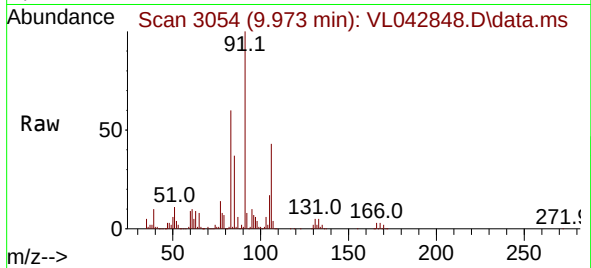
Tgt Ion:105 Resp: 931574
Ion Ratio Lower Upper
105 100
120 25.2 20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 13.356 ppbv
RT: 9.973 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

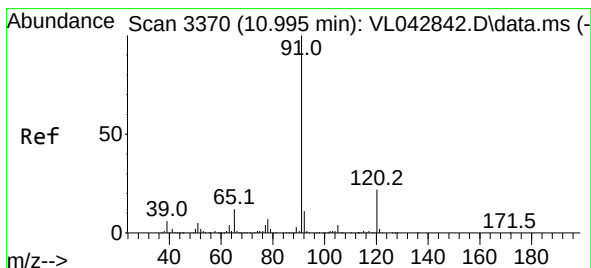
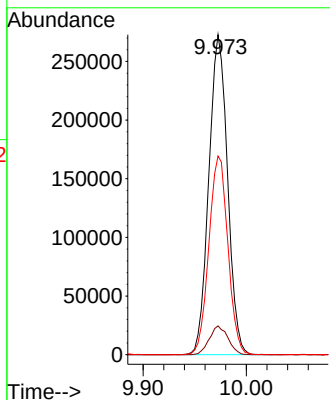
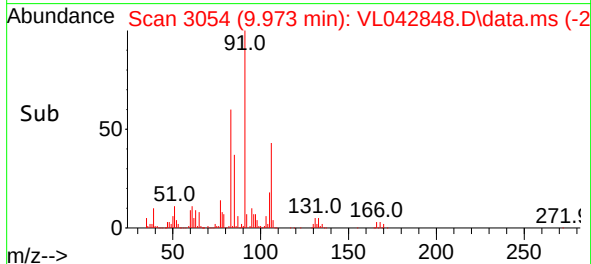
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



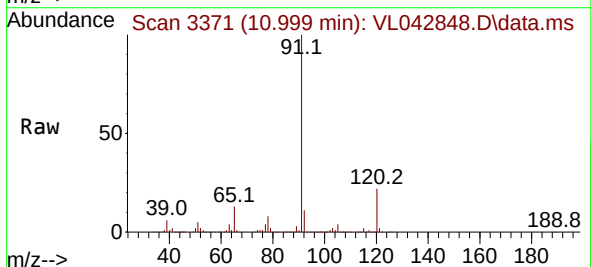
Tgt Ion: 83 Resp: 342890
Ion Ratio Lower Upper
83 100
131 9.0 4.8 14.3
85 63.0 32.3 96.8

Manual Integrations
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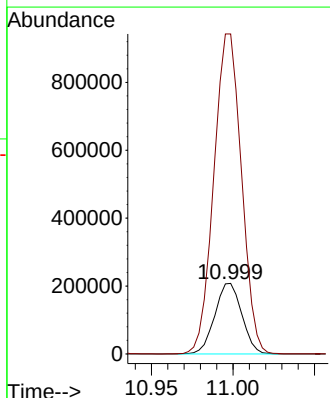
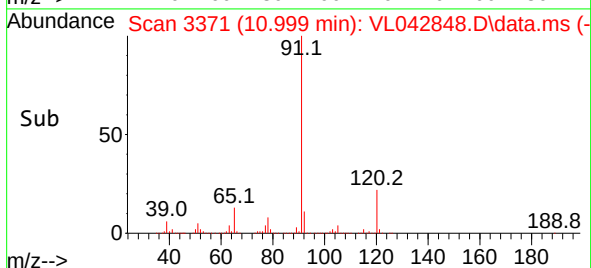
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

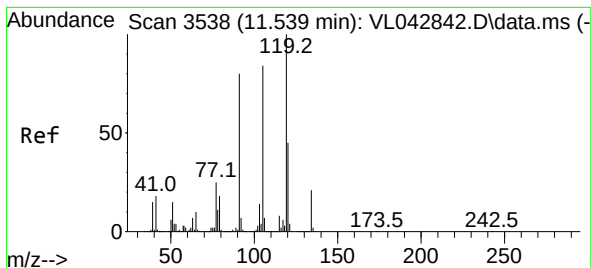


#64
n-propylbenzene
Concen: 13.646 ppbv
RT: 10.999 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



Tgt Ion:120 Resp: 239209
Ion Ratio Lower Upper
120 100
91 465.1 375.8 563.6





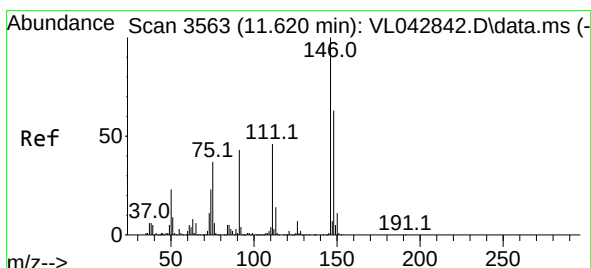
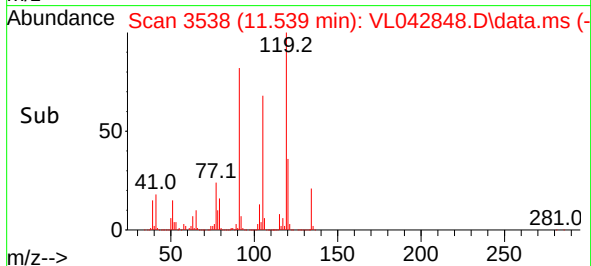
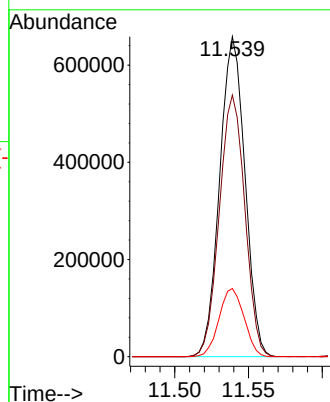
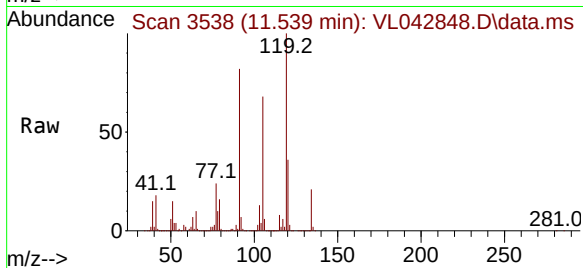
#65
tert-Butylbenzene
Concen: 12.965 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 119 Resp: 785250
Ion Ratio Lower Upper
119 100
91 82.4 63.9 95.9
134 21.1 17.0 25.4

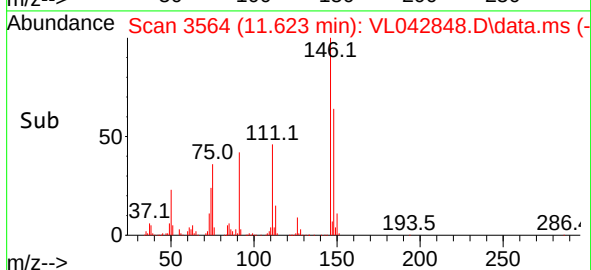
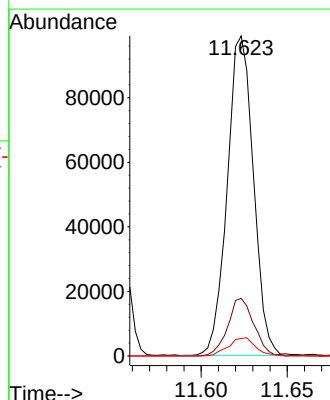
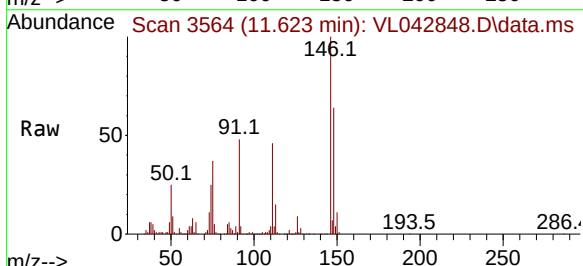
Manual Integrations
APPROVED

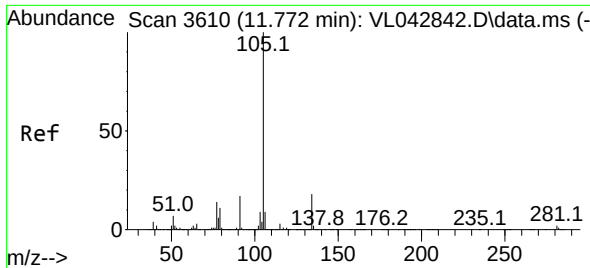
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#66
Benzyl Chloride
Concen: 13.617 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

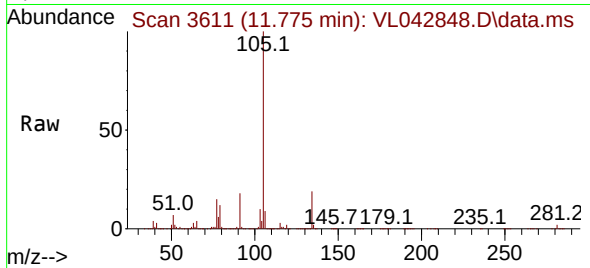
Tgt Ion: 91 Resp: 104698
Ion Ratio Lower Upper
91 100
126 18.1 14.2 21.4
128 5.9 5.0 7.6





#67
 sec-Butylbenzene
 Concen: 13.127 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

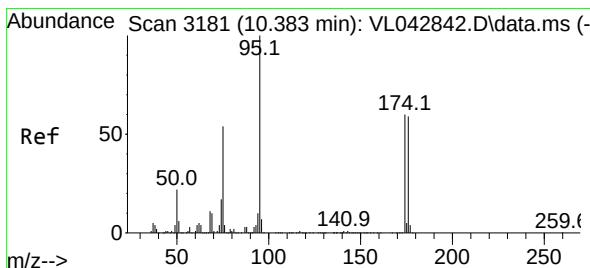
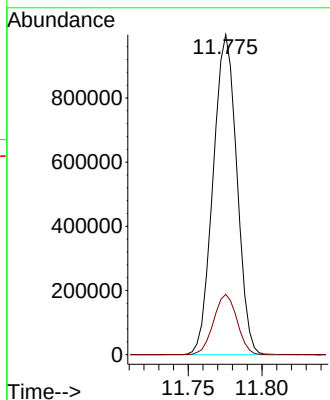
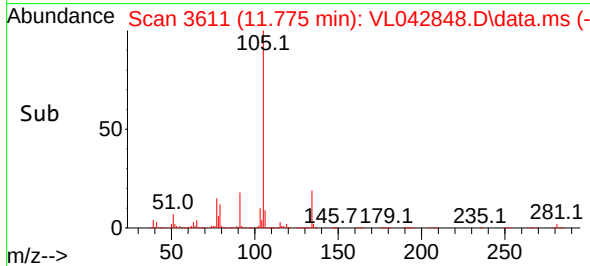
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



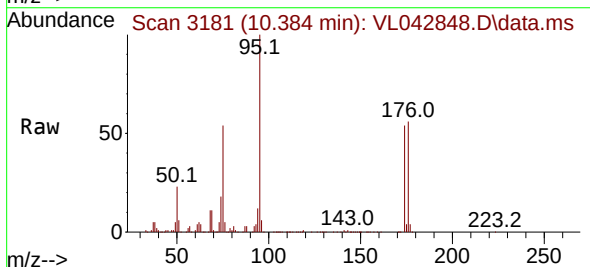
Tgt Ion:105 Resp: 1115979
 Ion Ratio Lower Upper
 105 100
 134 18.7 14.9 22.3

Manual Integrations
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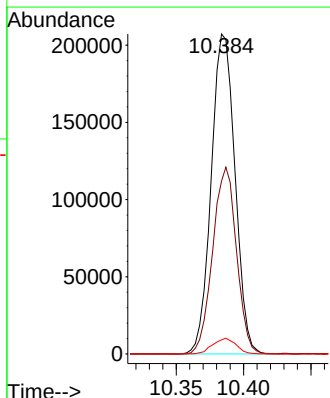
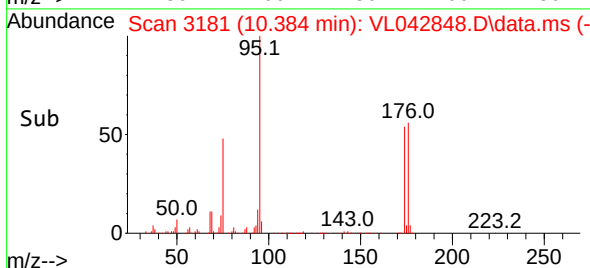
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

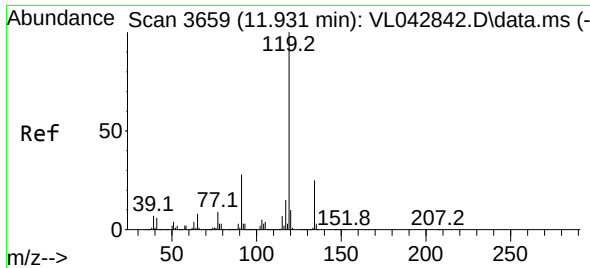


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.050 ppbv
 RT: 10.384 min Scan# 3181
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06



Tgt Ion: 95 Resp: 254655
 Ion Ratio Lower Upper
 95 100
 174 58.3 48.4 72.6
 175 4.8 3.8 5.8





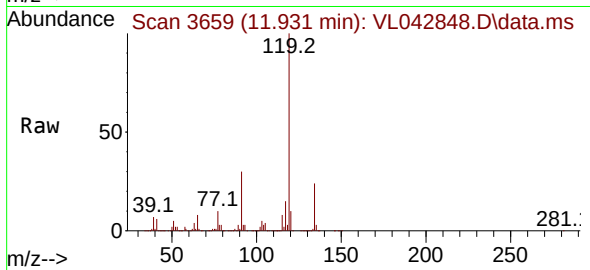
#69
p-Isopropyltoluene
Concen: 12.891 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

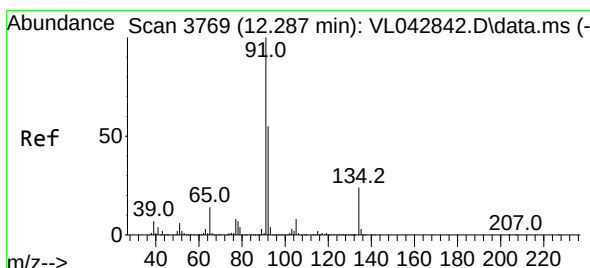
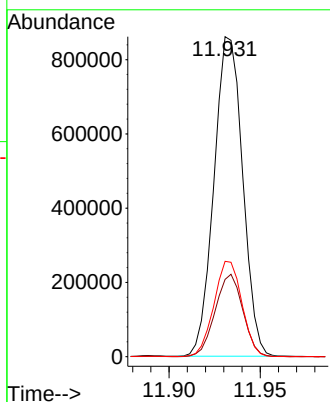
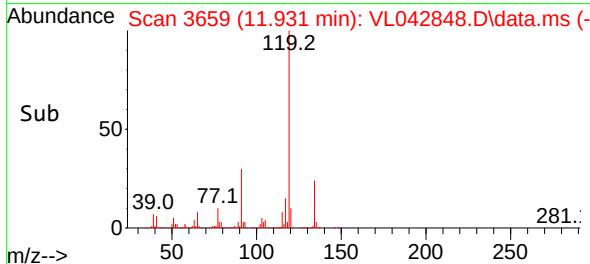


Tgt Ion: 119 Resp: 940888
Ion Ratio Lower Upper
119 100
134 25.0 20.6 30.8
91 29.4 22.6 34.0

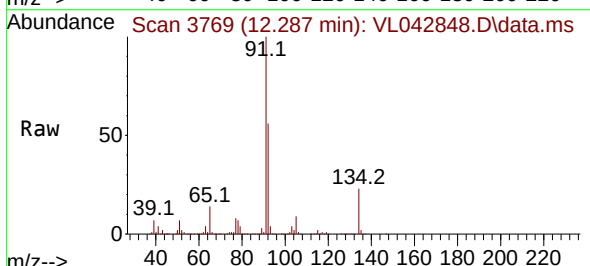
Manual Integrations

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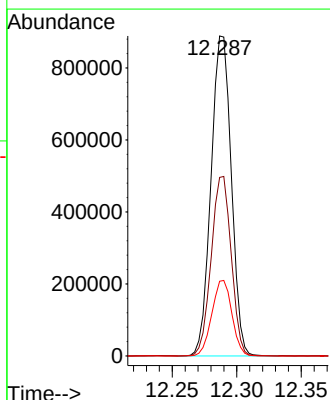
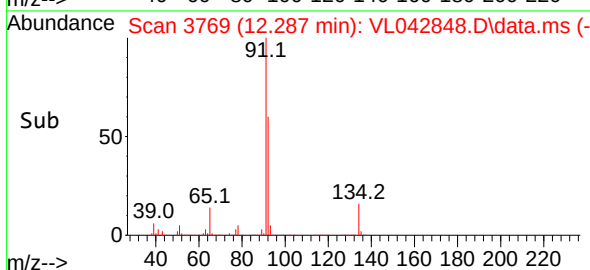
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

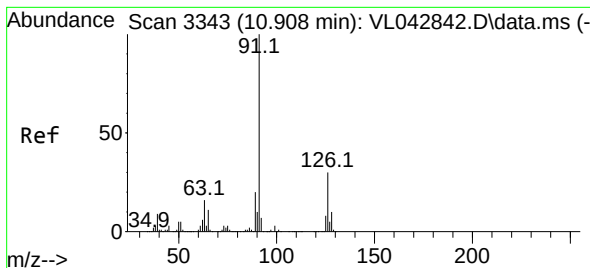


#70
n-Butylbenzene
Concen: 13.410 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



Tgt Ion: 91 Resp: 970700
Ion Ratio Lower Upper
91 100
92 55.5 44.6 66.8
134 23.3 19.0 28.4





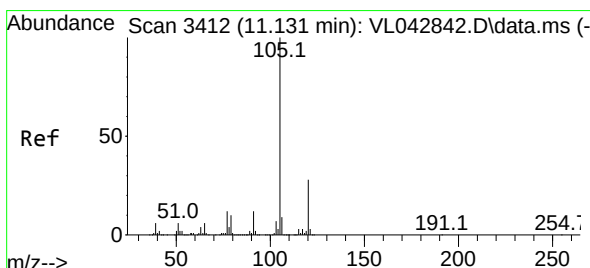
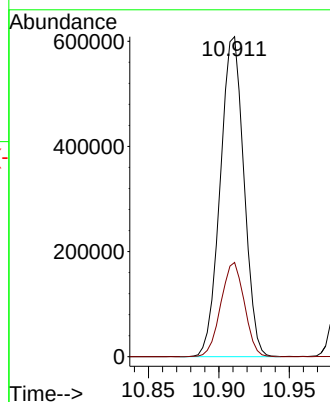
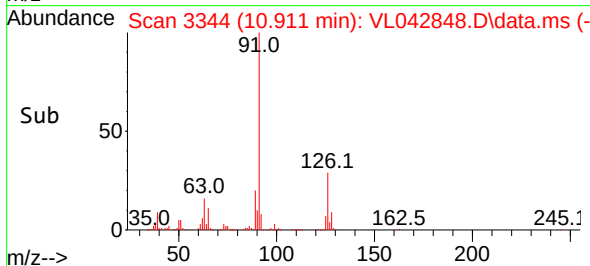
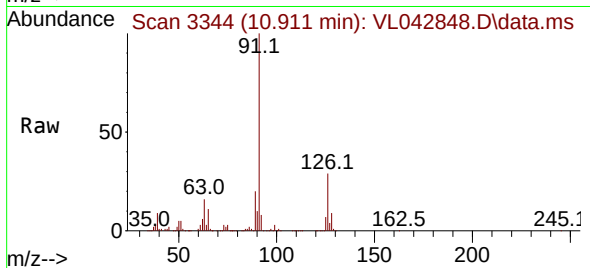
#71
2-Chlorotoluene
Concen: 13.378 ppbv
RT: 10.911 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 713690
Ion Ratio Lower Upper
91 100
126 29.2 12.0 47.8

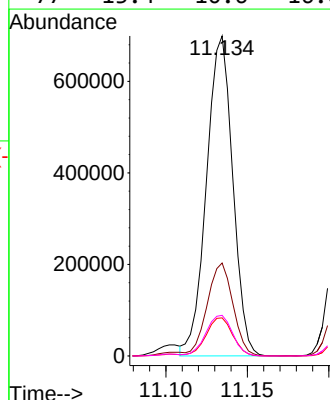
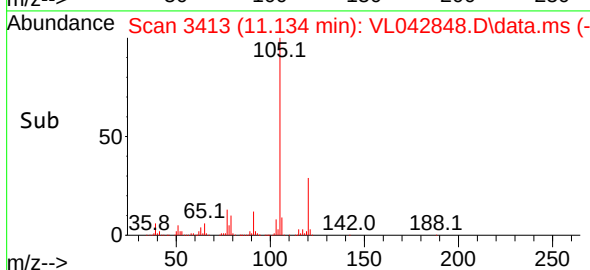
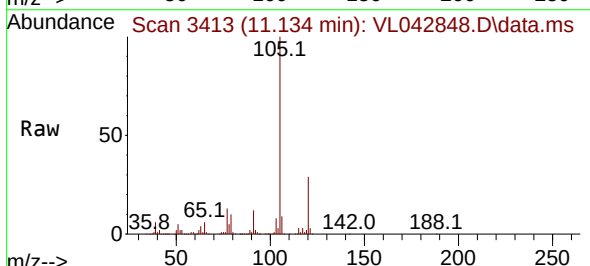
Manual Integrations
APPROVED

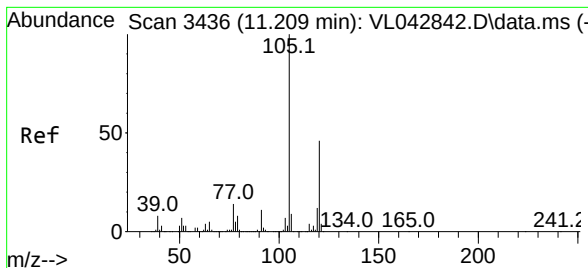
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#72
4-Ethyltoluene
Concen: 13.722 ppbv
RT: 11.134 min Scan# 3413
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

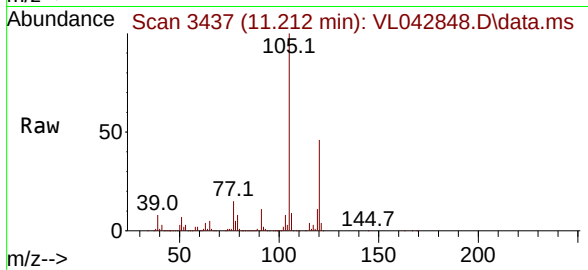
Tgt Ion:105 Resp: 782057
Ion Ratio Lower Upper
105 100
120 29.6 23.4 35.2
91 12.5 9.8 14.6
77 13.4 10.6 16.0





#73
1,3,5-Trimethylbenzene
Concen: 13.418 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

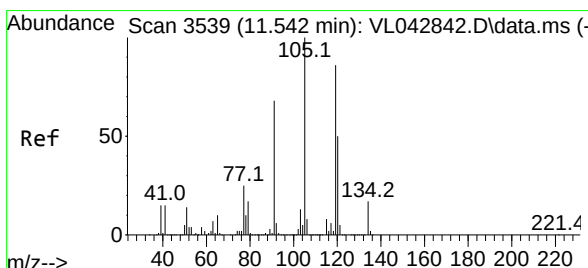
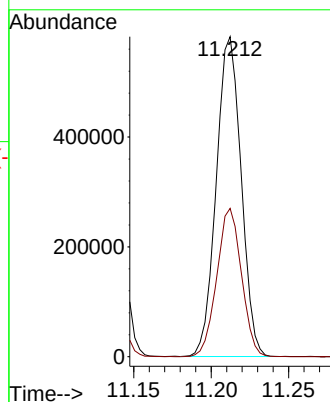
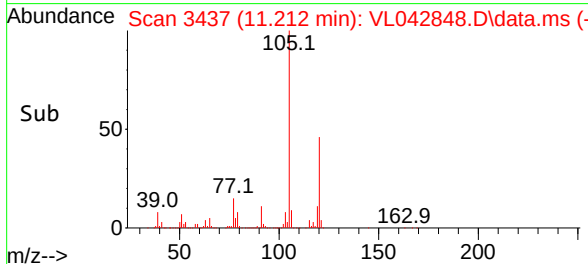
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



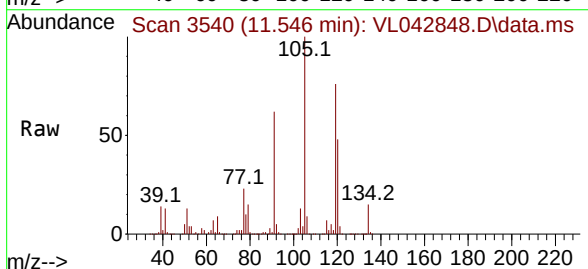
Tgt Ion:105 Resp: 650280
Ion Ratio Lower Upper
105 100
120 46.4 36.6 54.8

Manual Integrations
APPROVED

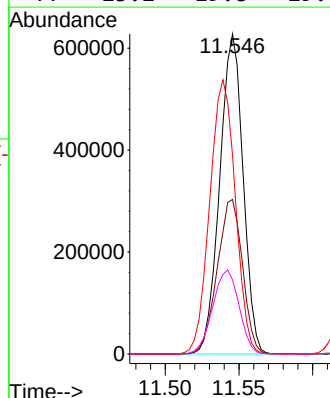
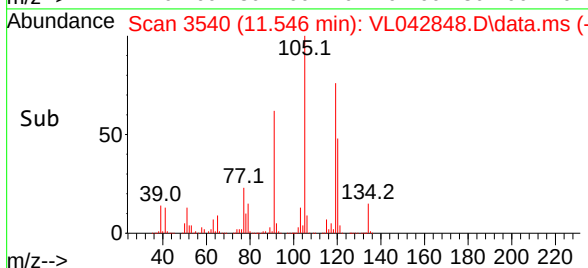
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

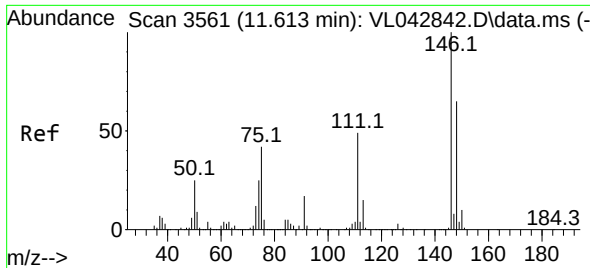


#74
1,2,4-Trimethylbenzene
Concen: 13.003 ppbv
RT: 11.546 min Scan# 3540
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



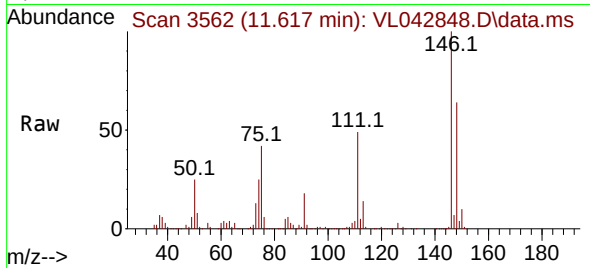
Tgt Ion:105 Resp: 691709
Ion Ratio Lower Upper
105 100
120 48.3 39.8 59.6
91 62.2 54.2 81.4
77 23.2 19.8 29.6





#75
1,3-Dichlorobenzene
Concen: 13.321 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

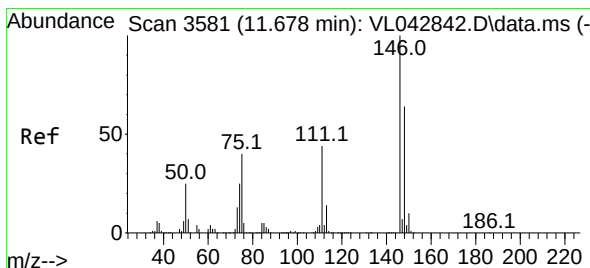
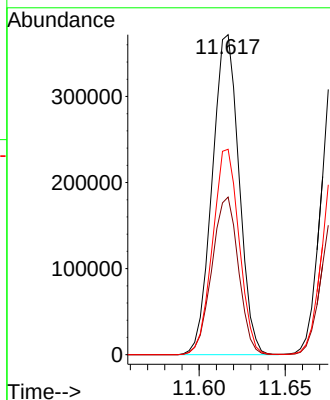
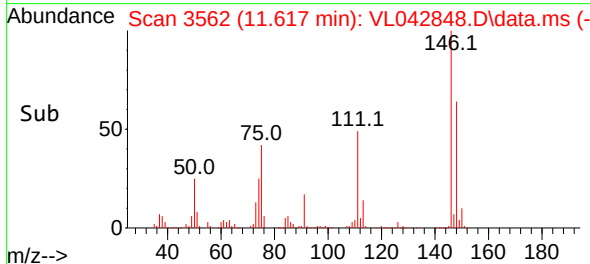
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



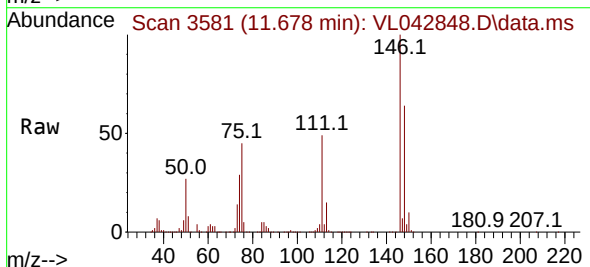
Tgt Ion:146 Resp: 402850
Ion Ratio Lower Upper
146 100
111 48.9 23.9 71.7
148 63.5 31.4 94.0

Manual Integrations
APPROVED

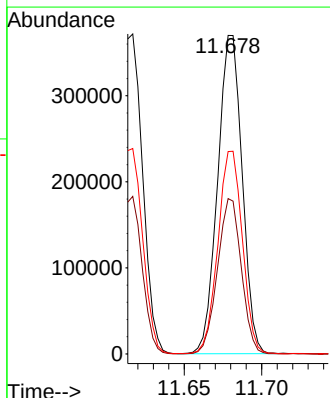
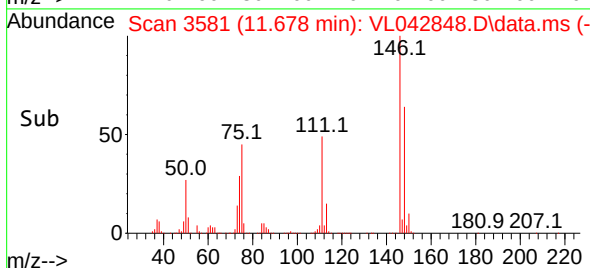
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

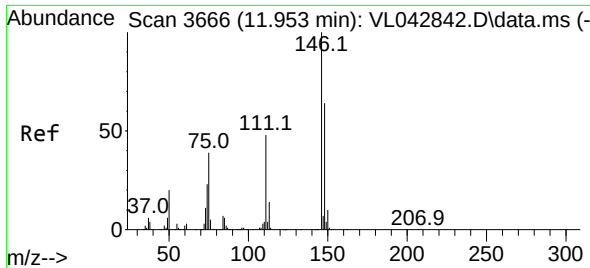


#76
1,4-Dichlorobenzene
Concen: 13.314 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



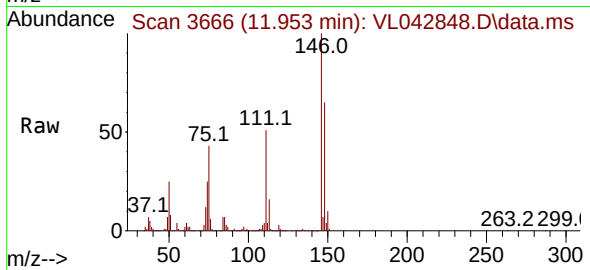
Tgt Ion:146 Resp: 407214
Ion Ratio Lower Upper
146 100
111 47.5 22.7 68.1
148 63.8 31.8 95.3





#77
1,2-Dichlorobenzene
Concen: 13.031 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

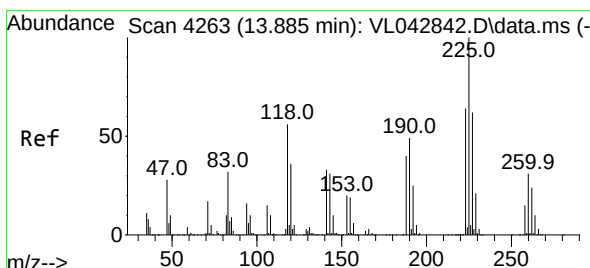
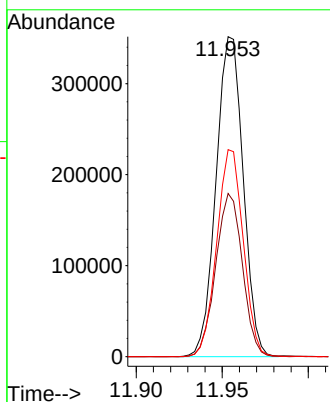
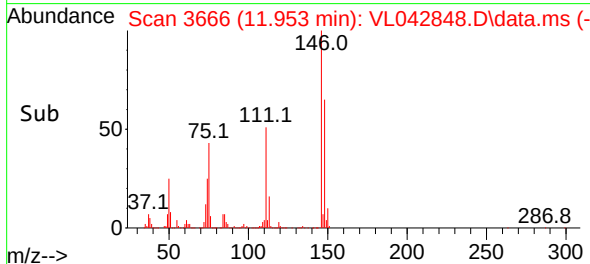
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



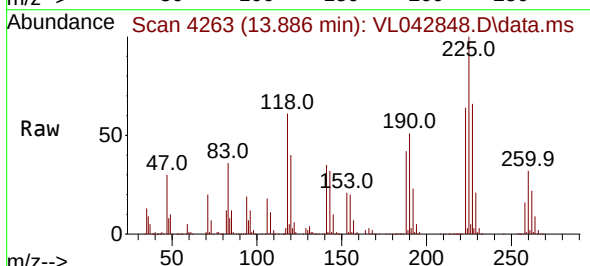
Tgt Ion:146 Resp: 385860
Ion Ratio Lower Upper
146 100
111 50.2 24.6 74.0
148 63.3 32.0 96.0

Manual Integrations
APPROVED

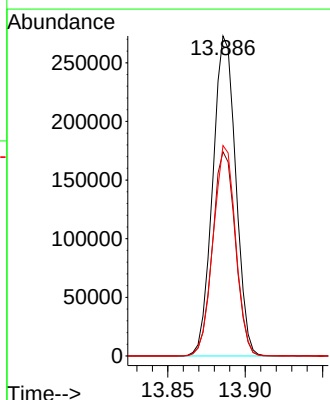
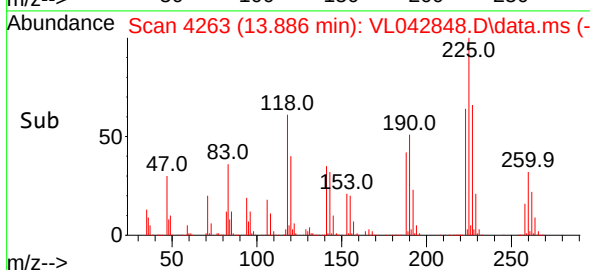
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

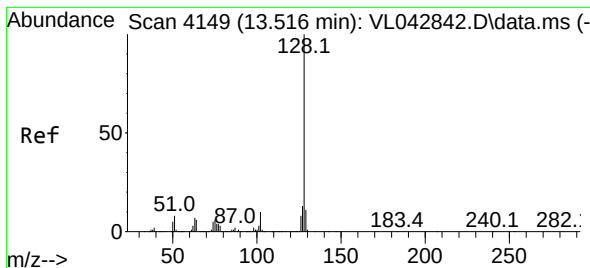


#78
Hexachloro-1,3-Butadiene
Concen: 11.602 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06



Tgt Ion:225 Resp: 281581
Ion Ratio Lower Upper
225 100
223 63.6 51.4 77.2
227 64.2 51.9 77.9





#79

Naphthalene

Concen: 13.837 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

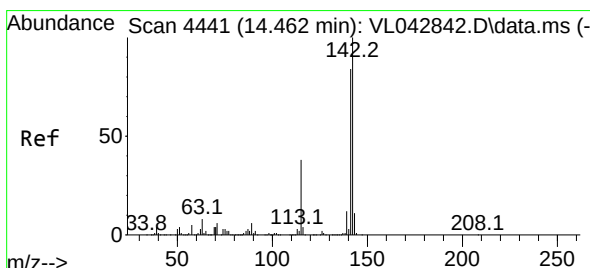
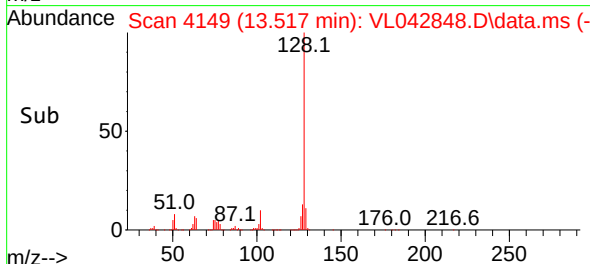
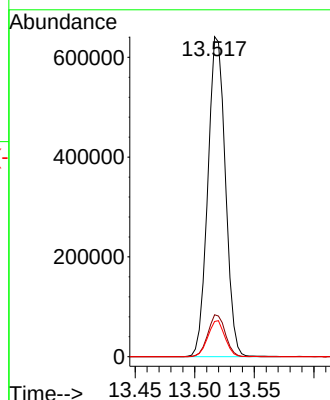
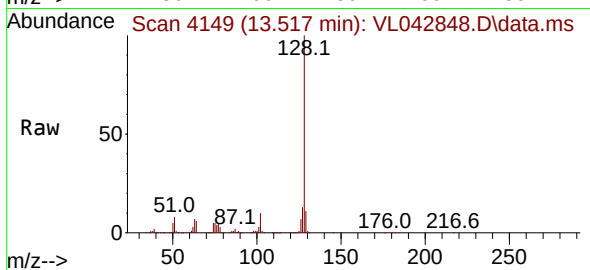
VSTDIC015

Tgt Ion:	128	Resp:	65873
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.6	16.0
129	11.0	8.9	13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#80

Naphthalene, 2-methyl-

Concen: 14.042 ppbv

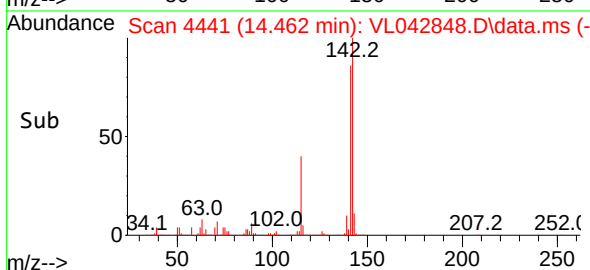
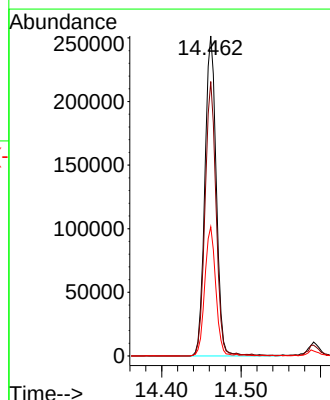
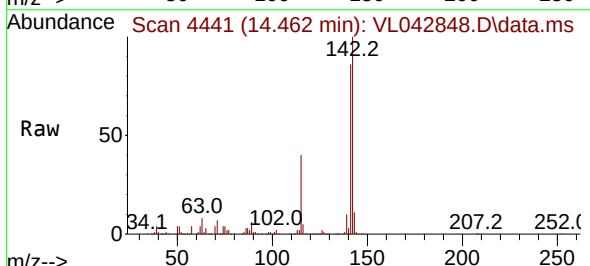
RT: 14.462 min Scan# 4441

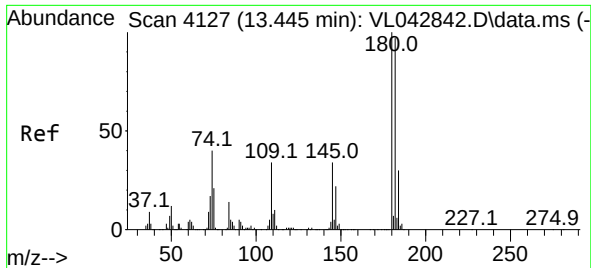
Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Tgt Ion:	142	Resp:	251753
Ion Ratio	Lower	Upper	
142	100		
141	83.9	67.0	100.6
115	39.3	30.9	46.3





#81

1,2,4-Trichlorobenzene

Concen: 13.599 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042848.D

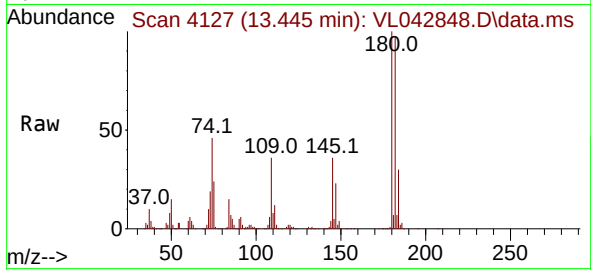
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015



Tgt Ion:180 Resp: 32964

Ion Ratio Lower Upper

180 100

182 96.2 76.9 115.3

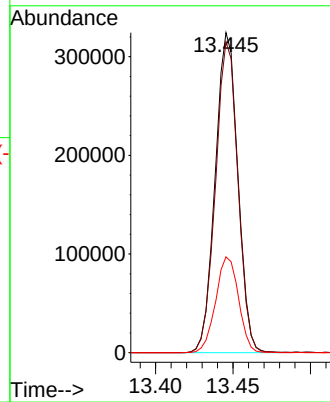
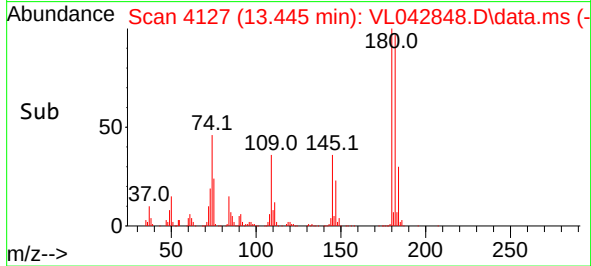
184 30.3 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



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

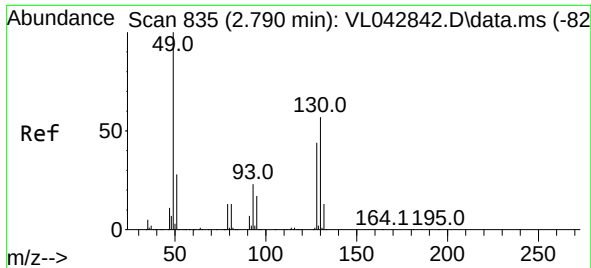
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

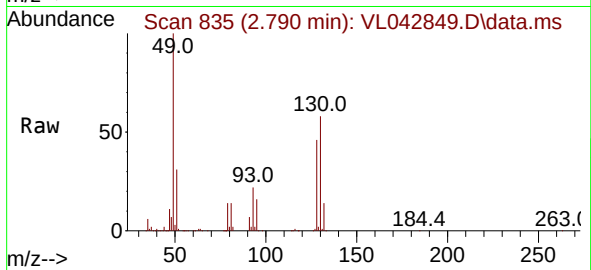
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	199988m	9.628	ppbv	
47) 1,1,2-Trichloroethane	6.597	97	132548	9.553	ppbv	99
48) Dibromochloromethane	7.399	129	217970	9.708	ppbv	100
49) Bromoform	9.493	173	174914	9.446	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	322264	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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

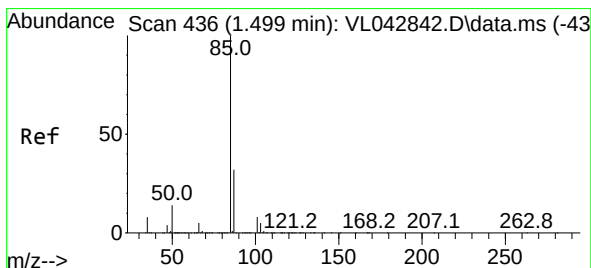
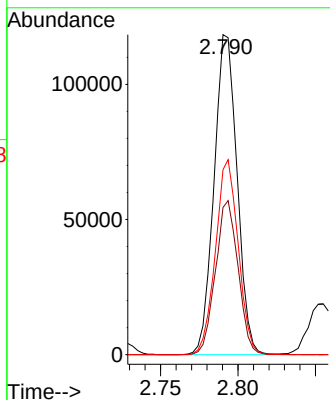
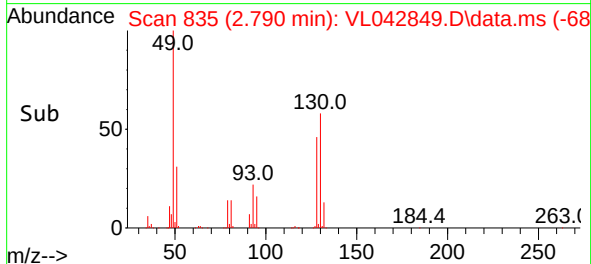
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



Tgt Ion: 49 Resp: 122486
Ion Ratio Lower Upper
49 100
128 47.2 23.7 71.1
130 60.0 30.6 91.6

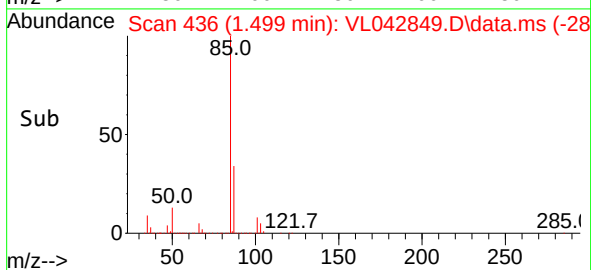
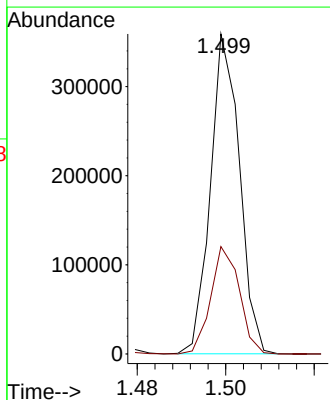
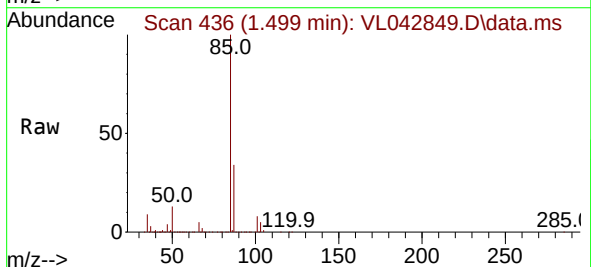
Manual Integrations
APPROVED

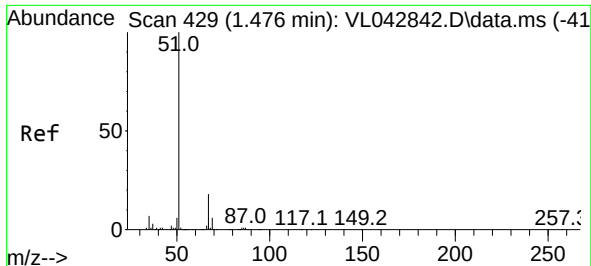
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#2
Dichlorodifluoromethane
Concen: 9.105 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

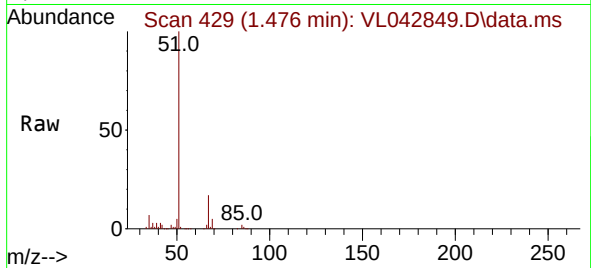
Tgt Ion: 85 Resp: 163446
Ion Ratio Lower Upper
85 100
87 33.6 25.3 37.9





#3
Chlorodifluoromethane
Concen: 9.327 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

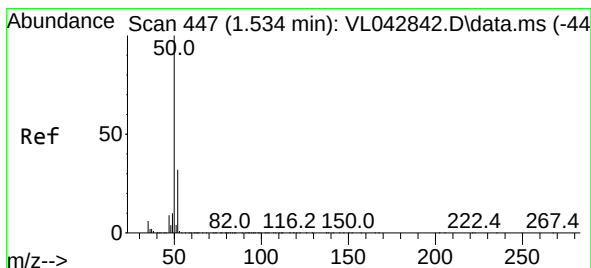
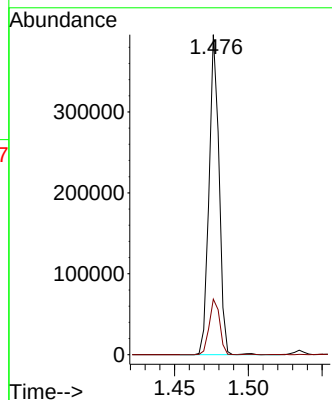
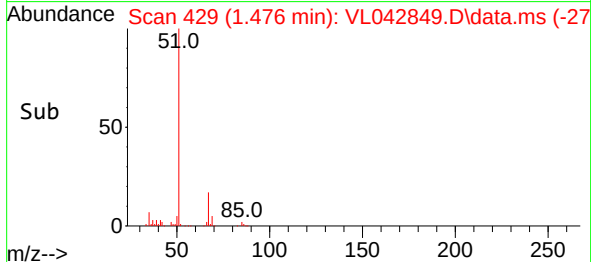
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



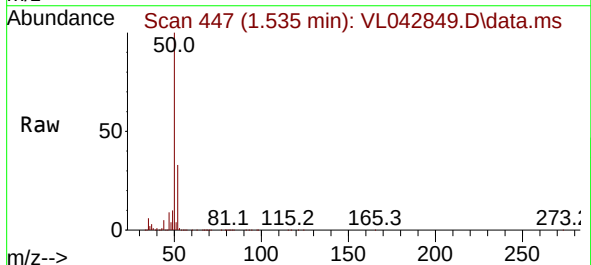
Tgt Ion: 51 Resp: 185078
Ion Ratio Lower Upper
51 100
67 18.6 14.9 22.3

Manual Integrations
APPROVED

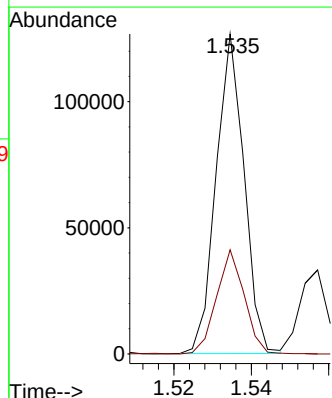
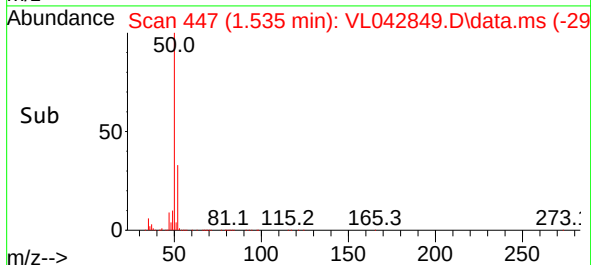
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

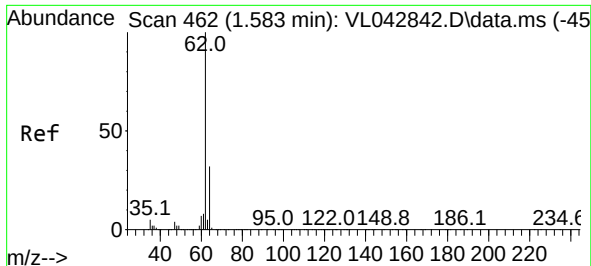


#4
Chloromethane
Concen: 8.784 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



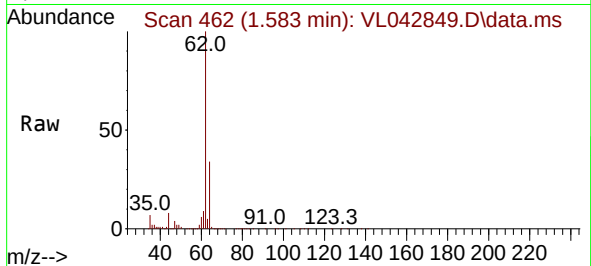
Tgt Ion: 50 Resp: 63634
Ion Ratio Lower Upper
50 100
52 32.6 25.9 38.9





#5
 Vinyl Chloride
 Concen: 8.232 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

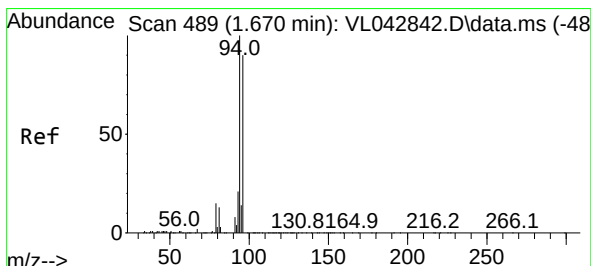
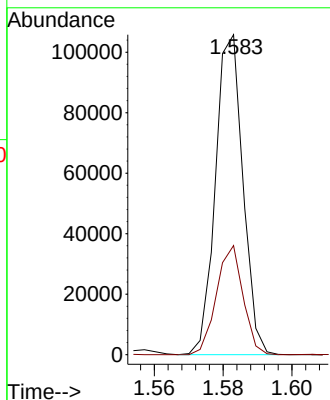
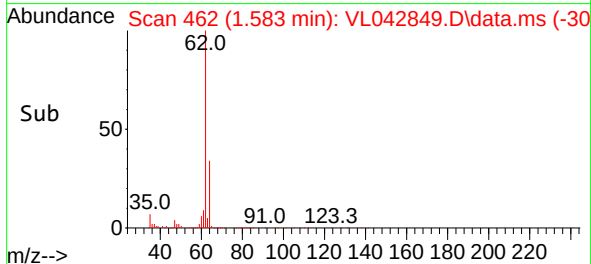
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325



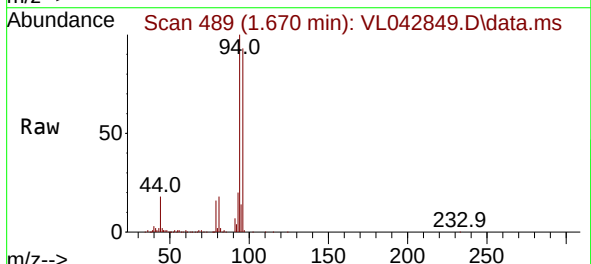
Tgt Ion: 62 Resp: 58729
 Ion Ratio Lower Upper
 62 100
 64 34.1 25.4 38.2

Manual Integrations
 APPROVED

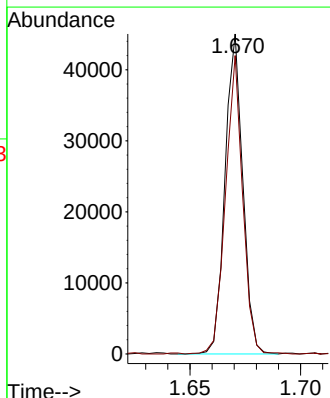
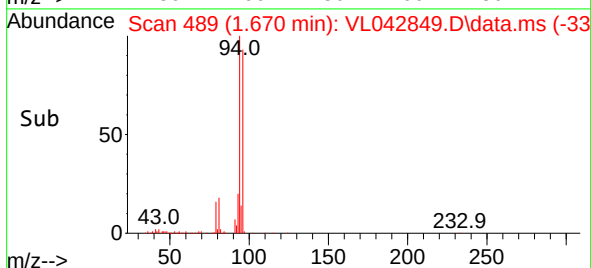
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

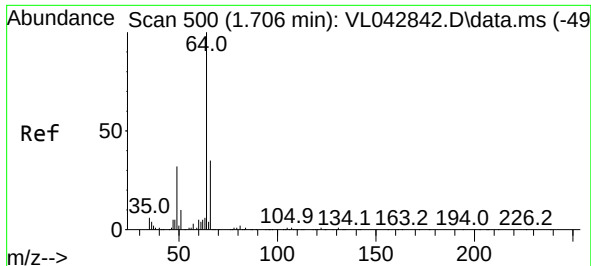


#6
 Bromomethane
 Concen: 8.801 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



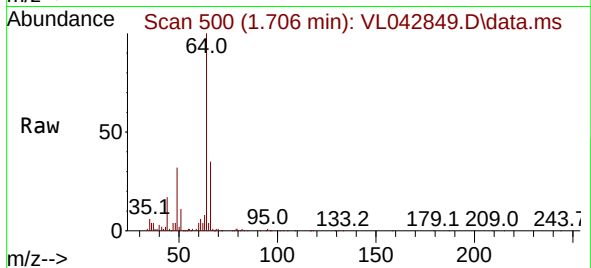
Tgt Ion: 94 Resp: 25105
 Ion Ratio Lower Upper
 94 100
 96 92.9 72.1 108.1





#7
Chloroethane
Concen: 8.360 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

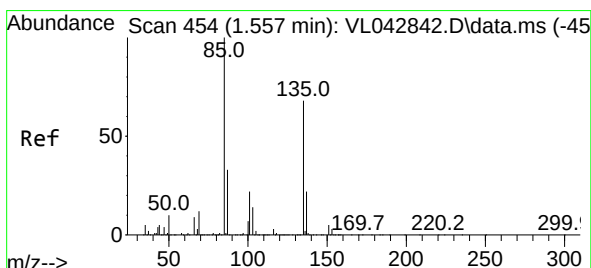
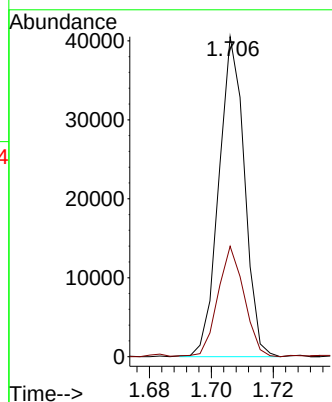
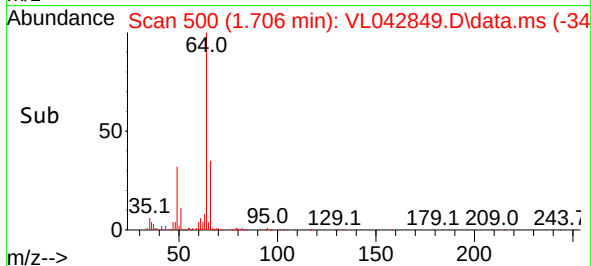
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



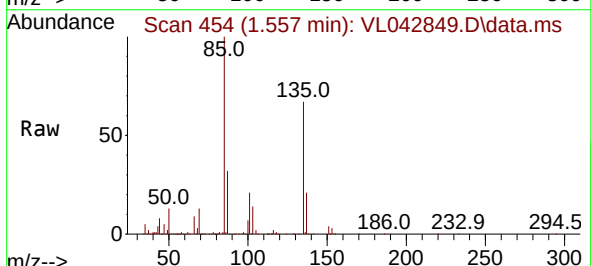
Tgt Ion: 64 Resp: 23293
Ion Ratio Lower Upper
64 100
66 34.5 28.6 42.8

Manual Integrations
APPROVED

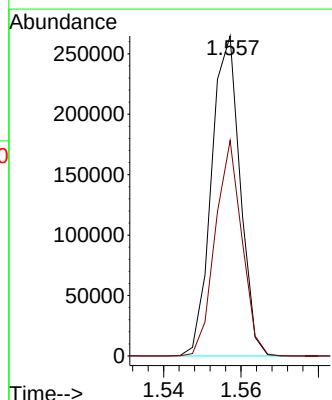
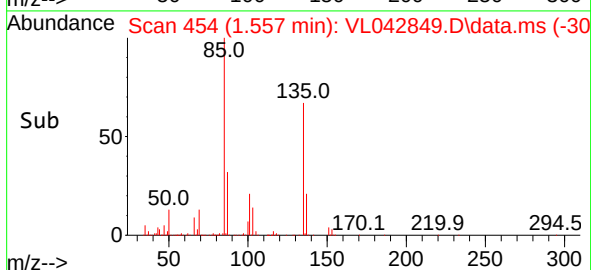
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

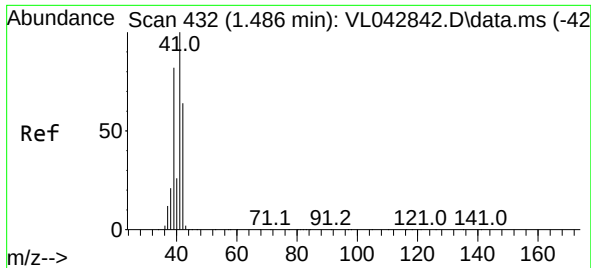


#8
Dichlorotetrafluoroethane
Concen: 9.248 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



Tgt Ion: 85 Resp: 135845
Ion Ratio Lower Upper
85 100
135 62.9 51.2 76.8





#9

Propene

Concen: 8.922 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

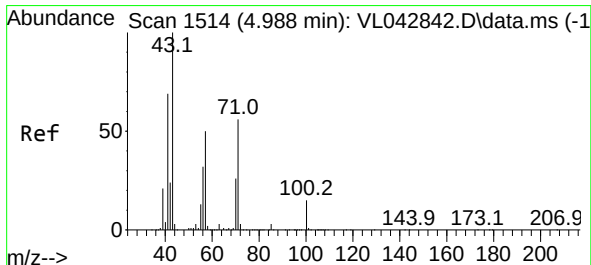
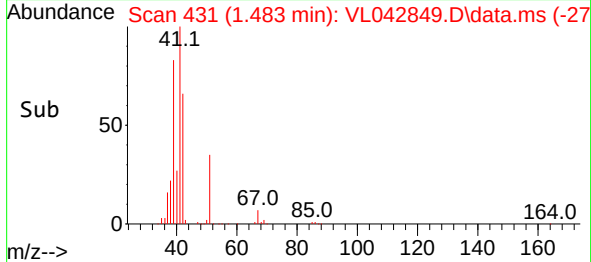
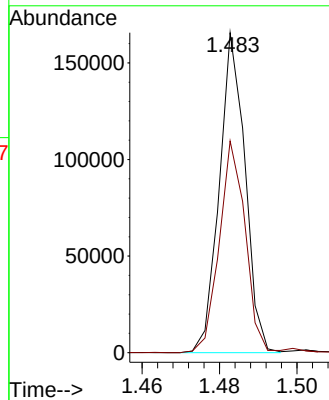
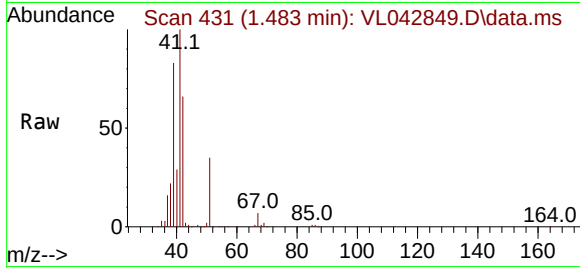
ICVVL081325

Tgt Ion: 41 Resp: 7645
 Ion Ratio Lower Upper
 41 100
 42 68.4 53.0 79.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#10

Heptane

Concen: 8.990 ppbv

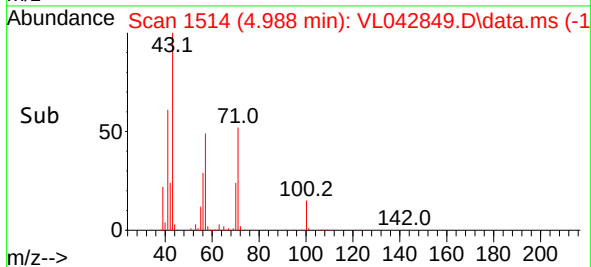
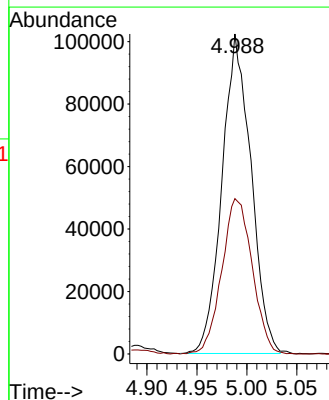
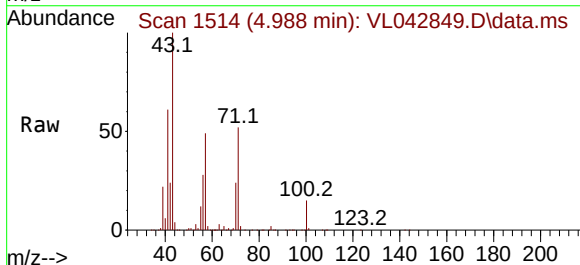
RT: 4.988 min Scan# 1514

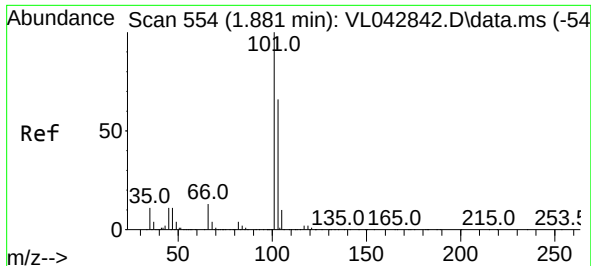
Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

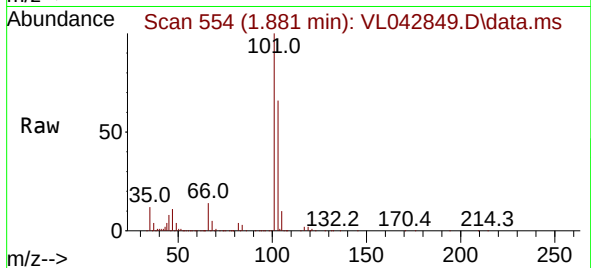
Tgt Ion: 43 Resp: 206333
 Ion Ratio Lower Upper
 43 100
 57 51.2 41.4 62.0





#11
 Trichlorofluoromethane
 Concen: 8.707 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

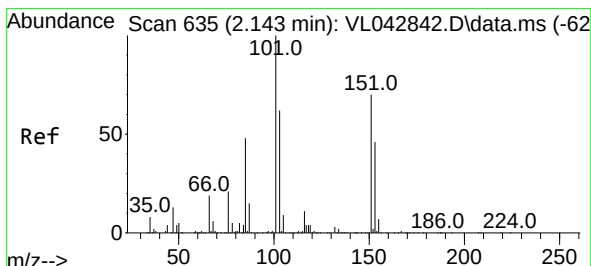
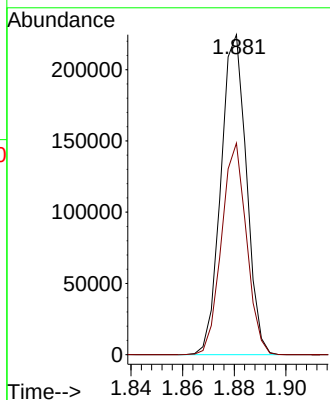
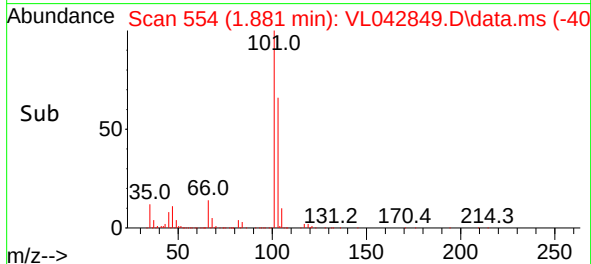
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325



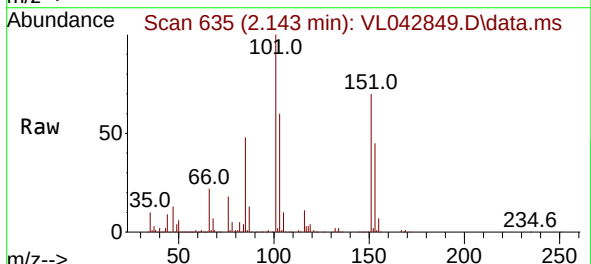
Tgt Ion:101 Resp: 15421
 Ion Ratio Lower Upper
 101 100
 103 66.1 52.5 78.7

Manual Integrations
 APPROVED

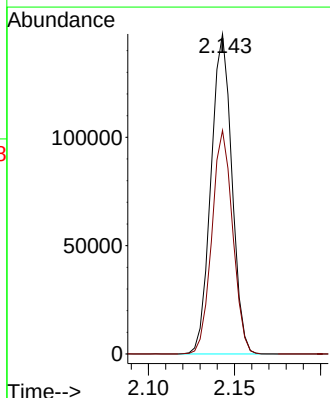
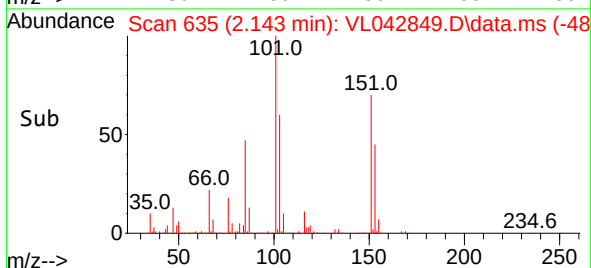
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

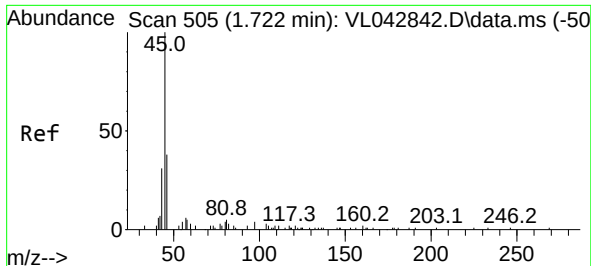


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.824 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



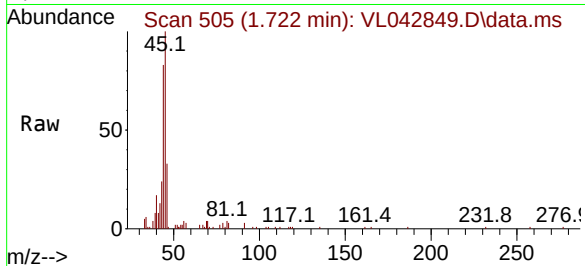
Tgt Ion:101 Resp: 124558
 Ion Ratio Lower Upper
 101 100
 151 69.7 56.4 84.6





#13
Ethanol
Concen: 7.678 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

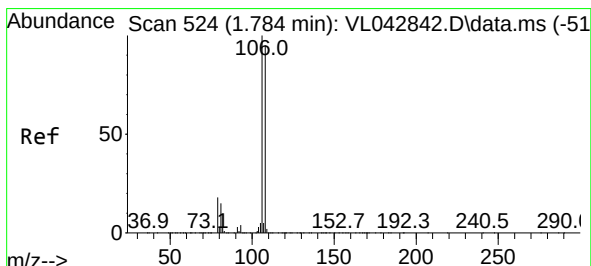
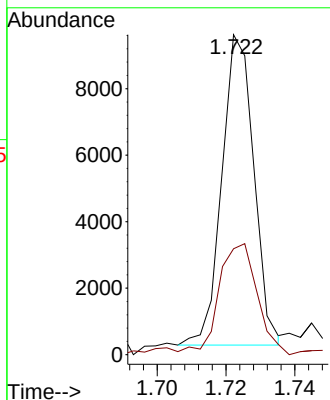
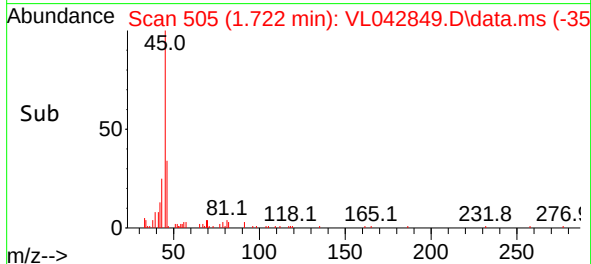
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



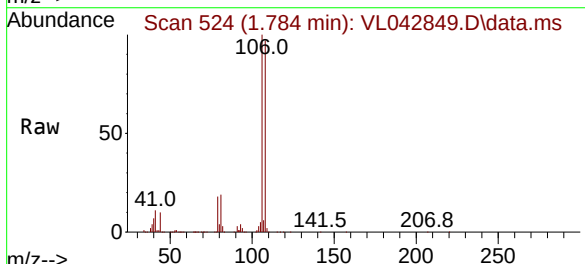
Tgt Ion: 45 Resp: 6010
Ion Ratio Lower Upper
45 100
46 46.2 17.5 69.9

Manual Integrations
APPROVED

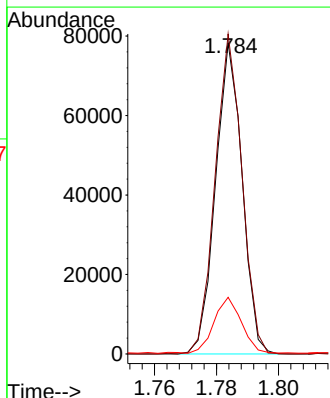
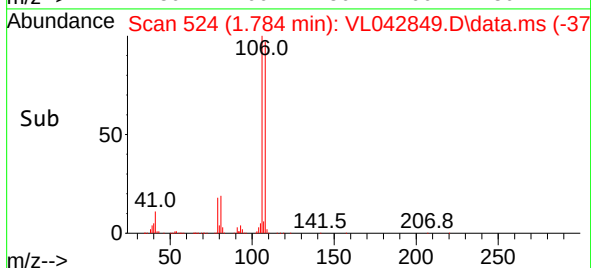
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

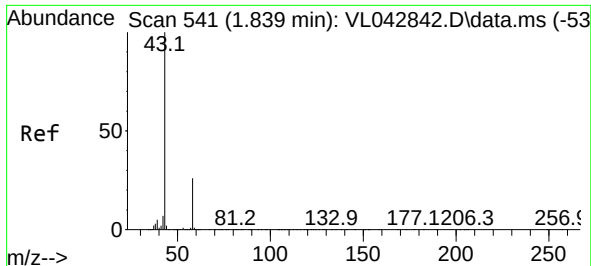


#14
Bromoethene
Concen: 9.105 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



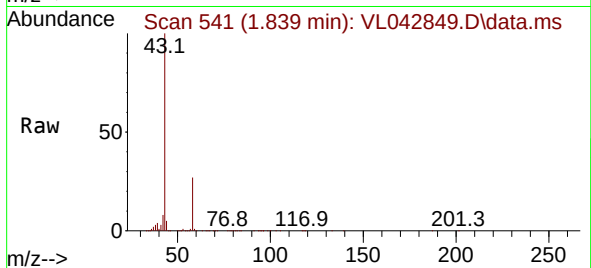
Tgt Ion:108 Resp: 46528
Ion Ratio Lower Upper
108 100
106 104.1 85.1 127.7
79 19.8 16.3 24.5





#15
Acetone
Concen: 7.389 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

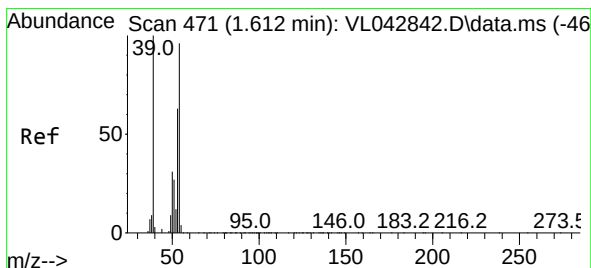
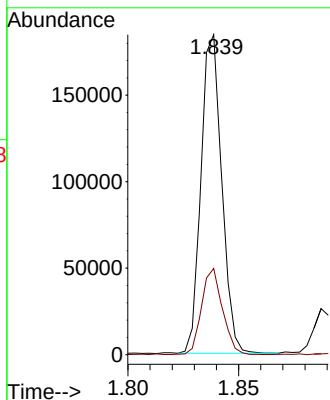
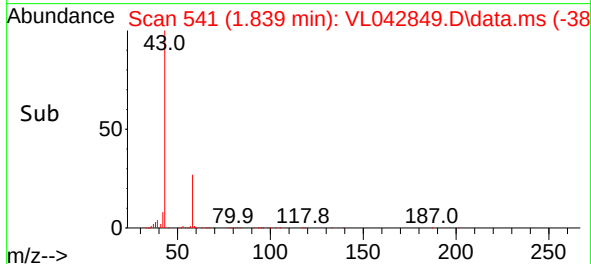
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



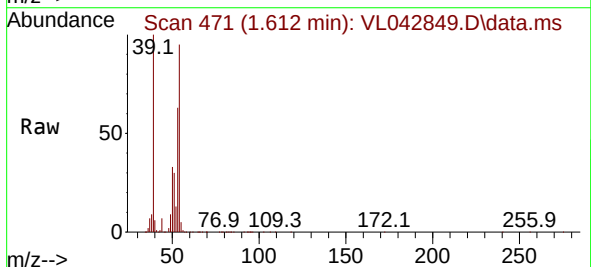
Tgt Ion: 43 Resp: 119723
Ion Ratio Lower Upper
43 100
58 27.6 22.4 33.6

Manual Integrations
APPROVED

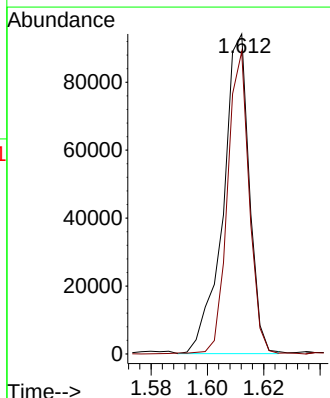
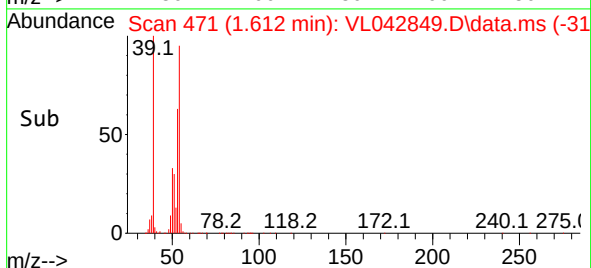
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

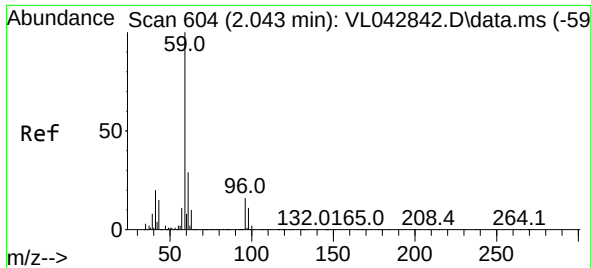


#16
1,3-Butadiene
Concen: 8.285 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



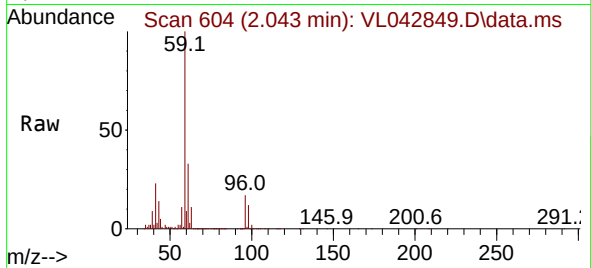
Tgt Ion: 39 Resp: 60853
Ion Ratio Lower Upper
39 100
54 78.9 63.6 95.4





#17
tert-Butyl alcohol
Concen: 8.663 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

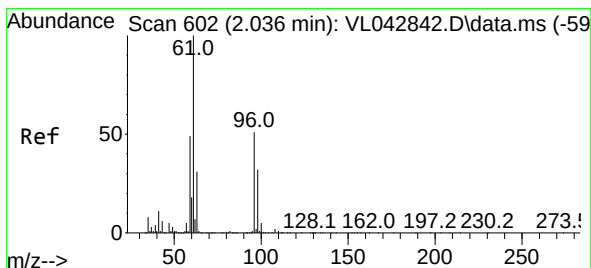
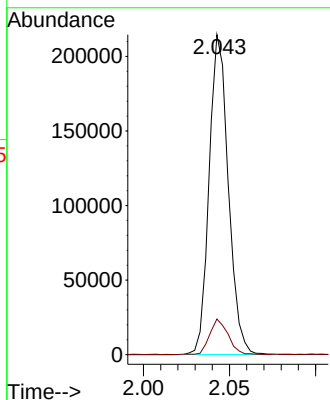
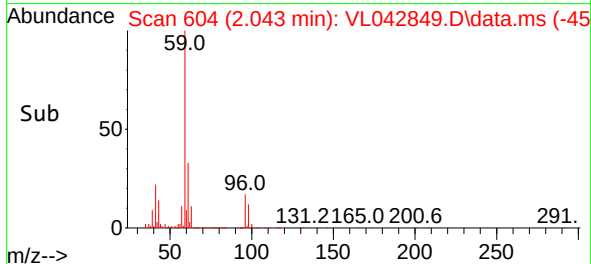
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



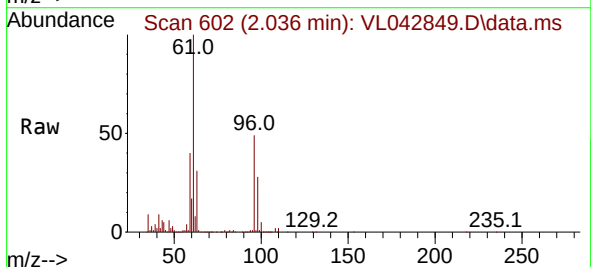
Tgt Ion: 59 Resp: 16645
Ion Ratio Lower Upper
59 100
57 10.7 9.0 13.4

Manual Integrations
APPROVED

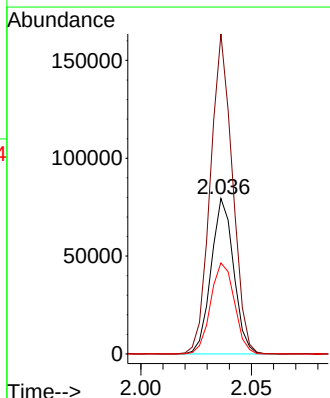
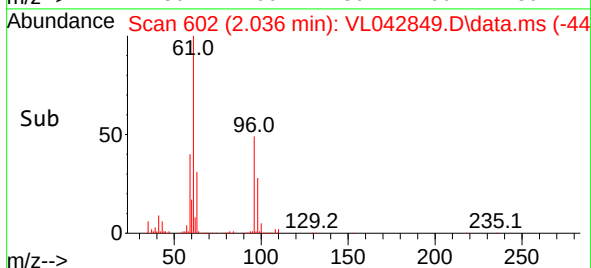
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

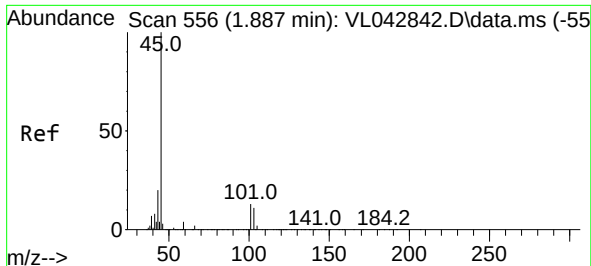


#18
1,1-Dichloroethene
Concen: 9.087 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



Tgt Ion: 96 Resp: 56397
Ion Ratio Lower Upper
96 100
61 205.8 158.2 237.4
98 58.5 50.6 76.0





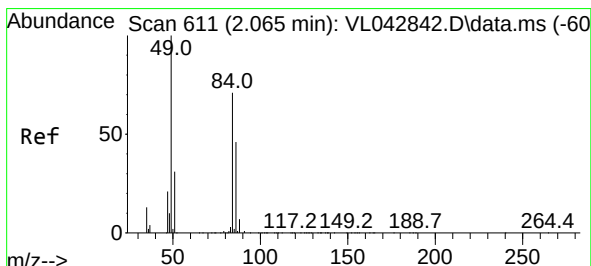
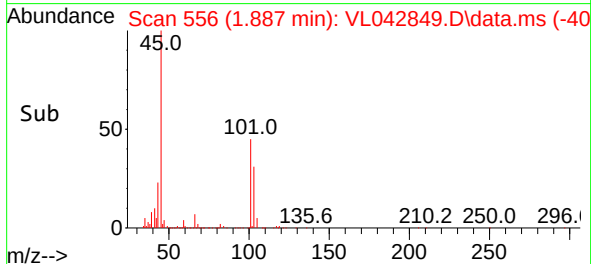
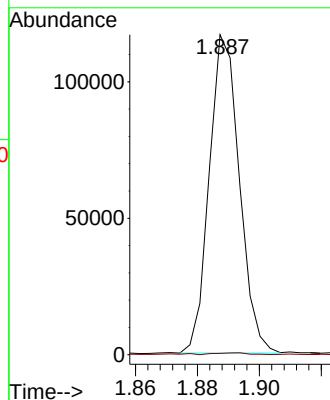
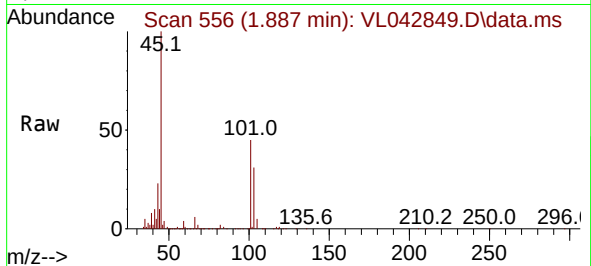
#19
Isopropyl Alcohol
Concen: 8.146 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 45 Resp: 78832
Ion Ratio Lower Upper
45 100
58 42.0 32.7 49.1

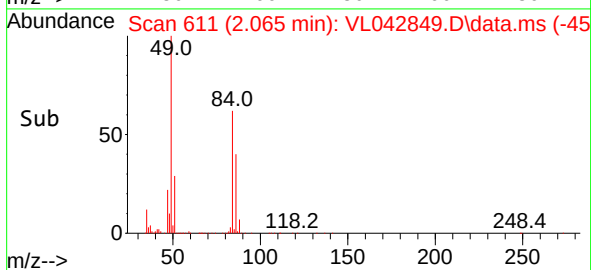
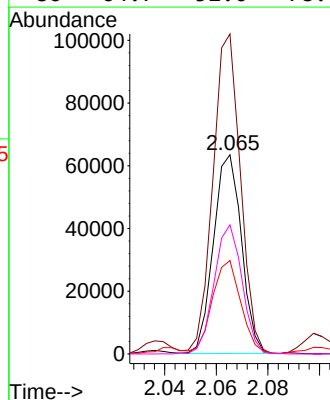
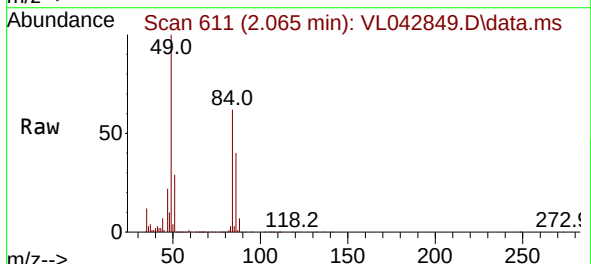
Manual Integrations
APPROVED

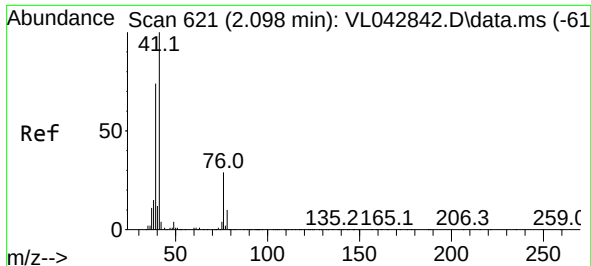
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#20
Methylene Chloride
Concen: 7.041 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

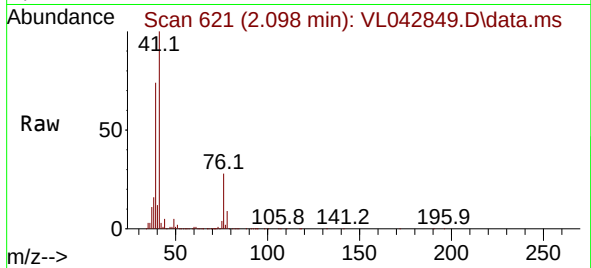
Tgt Ion: 84 Resp: 47793
Ion Ratio Lower Upper
84 100
49 160.7 112.3 168.5
51 46.9 36.0 54.0
86 64.7 52.0 78.0





#21
 Allyl Chloride
 Concen: 8.956 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

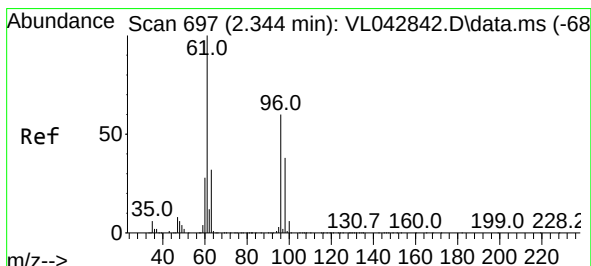
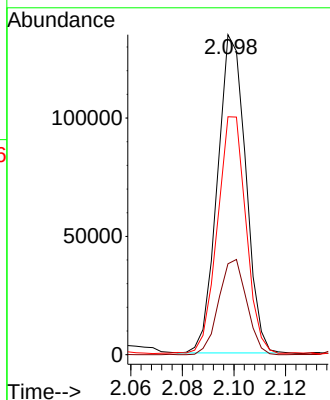
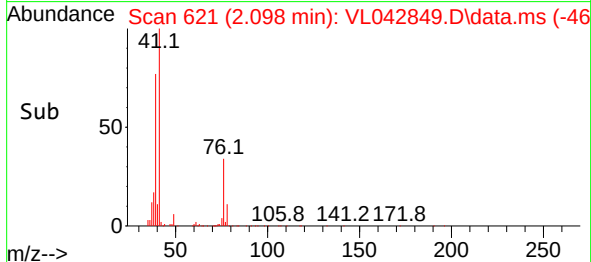
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325



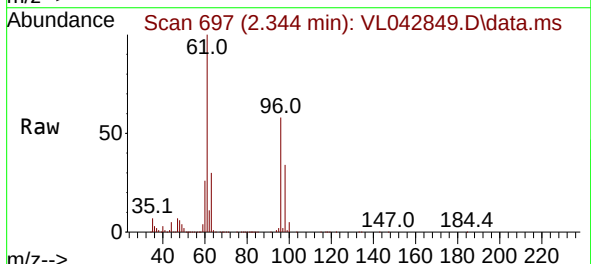
Tgt Ion: 41 Resp: 102514
 Ion Ratio Lower Upper
 41 100
 76 29.5 23.9 35.9
 39 76.1 57.8 86.6

Manual Integrations
 APPROVED

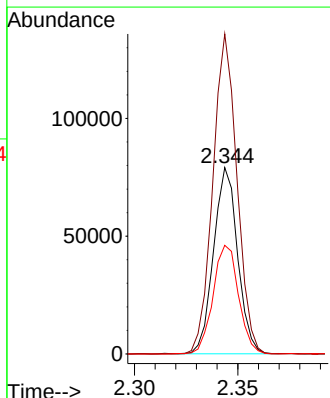
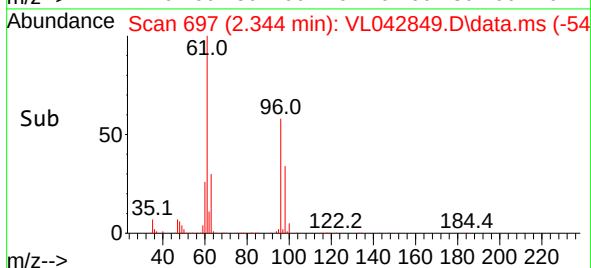
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

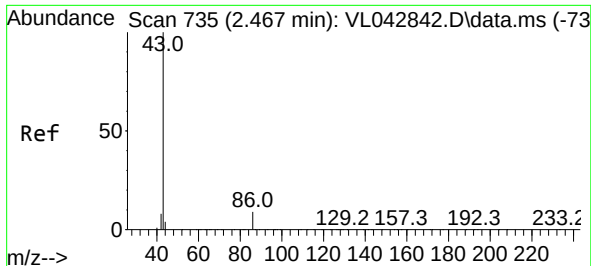


#22
 trans-1,2-Dichloroethene
 Concen: 8.904 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



Tgt Ion: 96 Resp: 63932
 Ion Ratio Lower Upper
 96 100
 61 171.8 132.6 199.0
 98 58.3 50.0 75.0





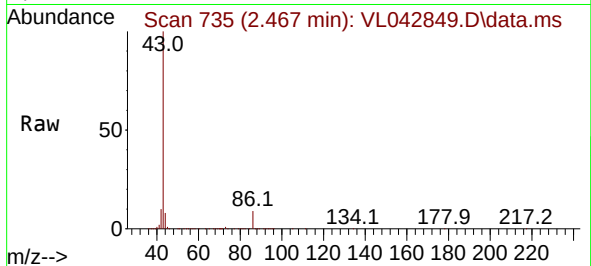
#23
 Vinyl Acetate
 Concen: 8.891 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

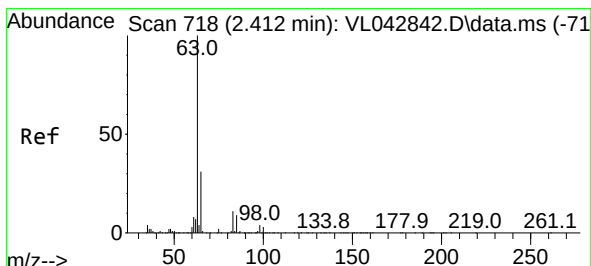
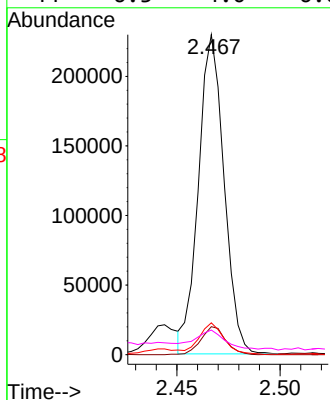
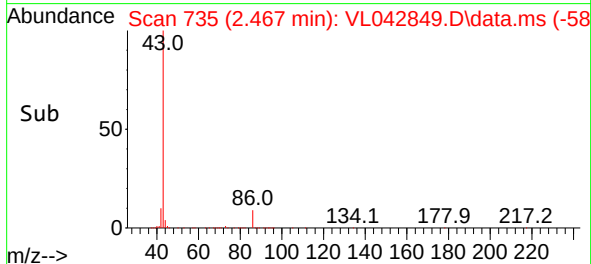
ICVVL081325



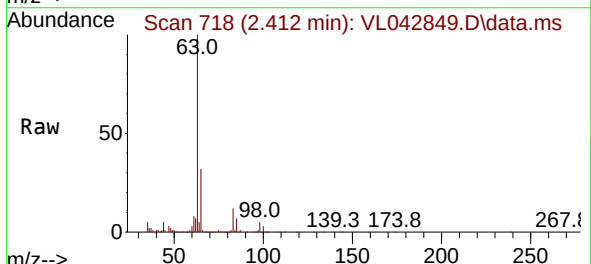
Tgt Ion: 43 Resp: 19808
 Ion Ratio Lower Upper
 43 100
 86 8.8 6.6 9.8
 42 9.8 7.0 10.6
 44 6.3 4.0 6.0#

Manual Integrations
 APPROVED

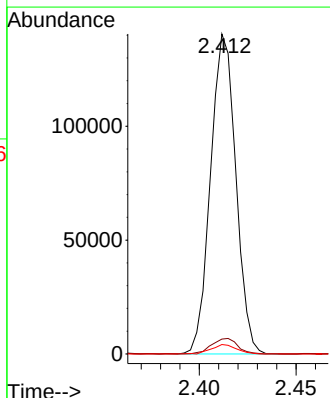
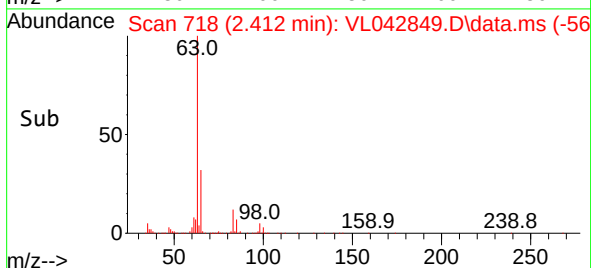
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

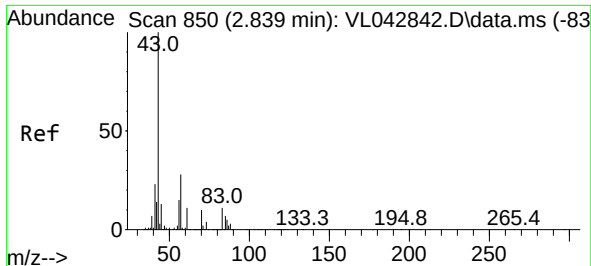


#24
 1,1-Dichloroethane
 Concen: 8.903 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



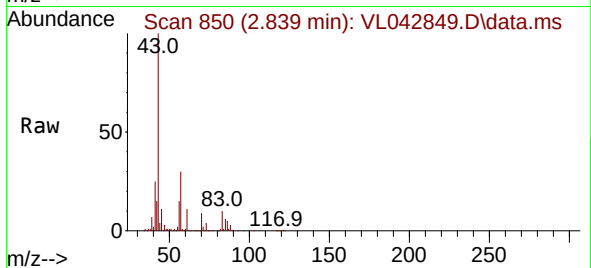
Tgt Ion: 63 Resp: 127660
 Ion Ratio Lower Upper
 63 100
 98 4.6 2.1 6.5
 100 3.0 1.7 5.1





#25
Ethyl Acetate
Concen: 9.240 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

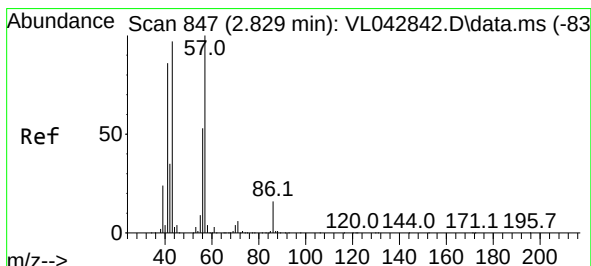
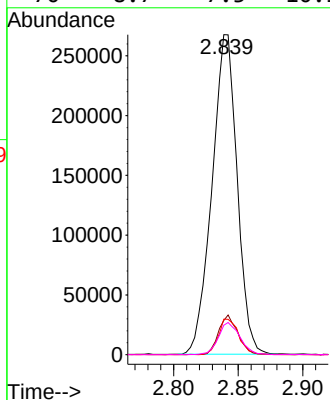
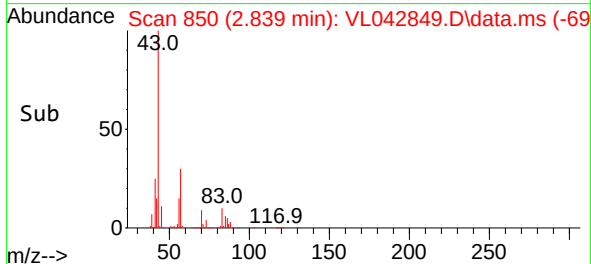
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



Tgt Ion:	43	Resp:	36232
Ion Ratio	100	Lower	Upper
43	100		
45	9.5	8.1	12.1
61	9.1	7.4	11.2
70	8.7	7.3	10.9

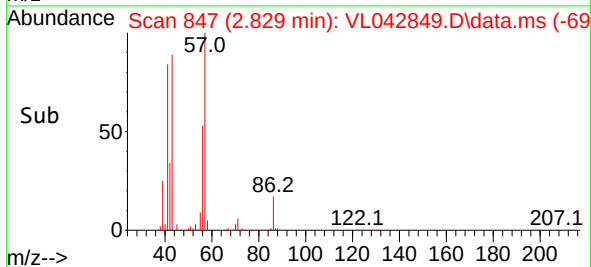
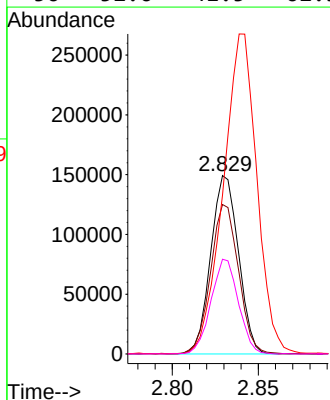
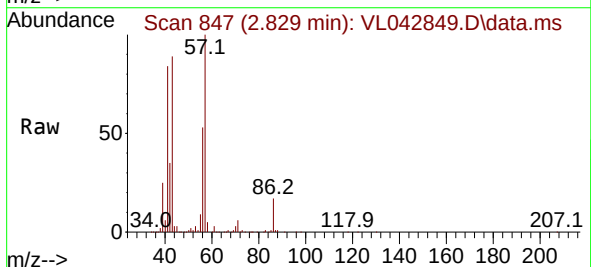
Manual Integrations
APPROVED

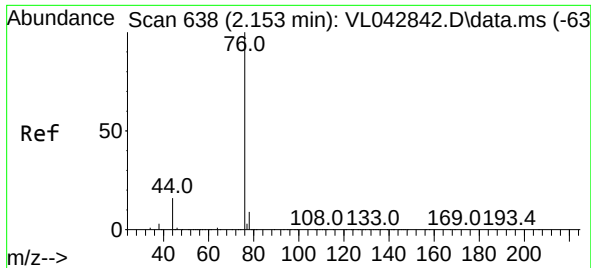
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#26
Hexane
Concen: 9.246 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

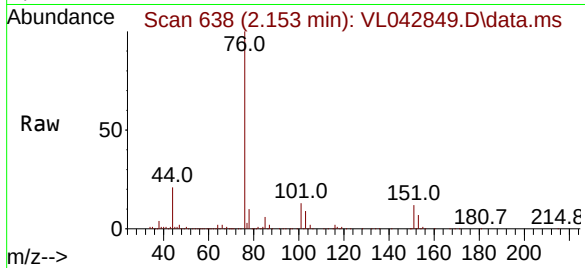
Tgt Ion:	57	Resp:	167364
Ion Ratio	100	Lower	Upper
57	100		
41	85.0	68.6	103.0
43	218.2	168.5	252.7
56	52.6	41.5	62.3





#27
Carbon Disulfide
Concen: 8.841 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

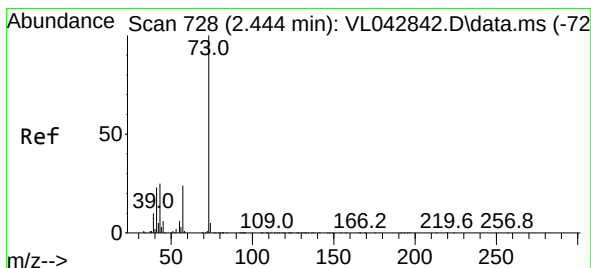
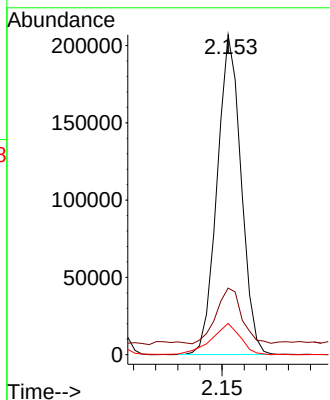
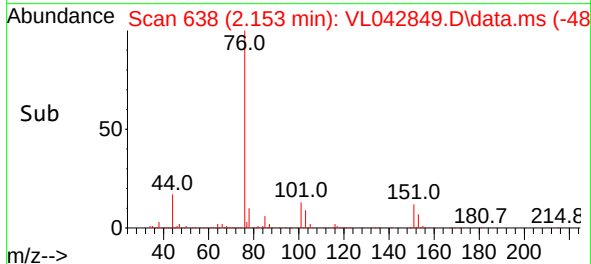
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



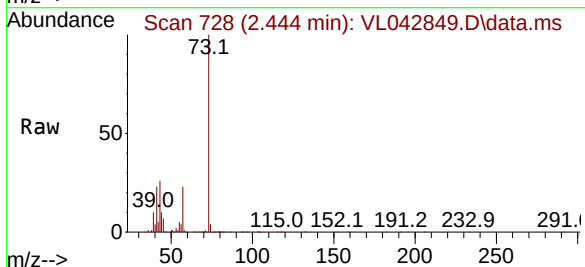
Tgt Ion: 76 Resp: 155729
Ion Ratio Lower Upper
76 100
44 19.2 15.9 23.9
78 11.9 9.5 14.3

Manual Integrations
APPROVED

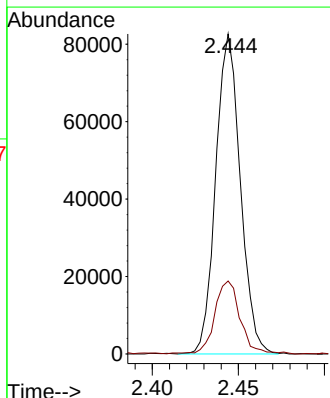
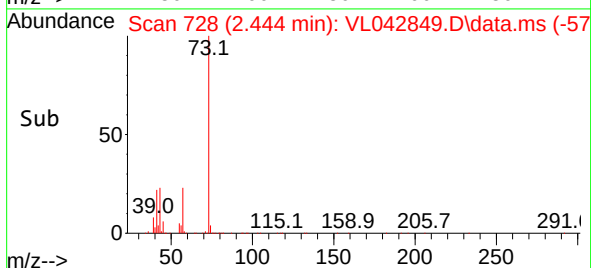
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

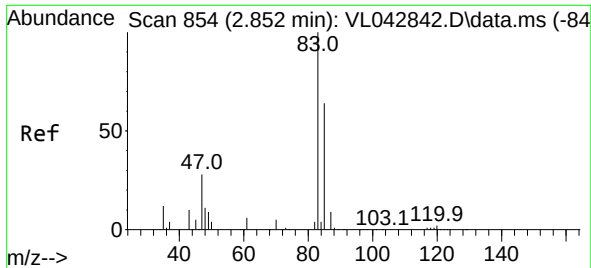


#28
Methyl tert-Butyl Ether
Concen: 8.898 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



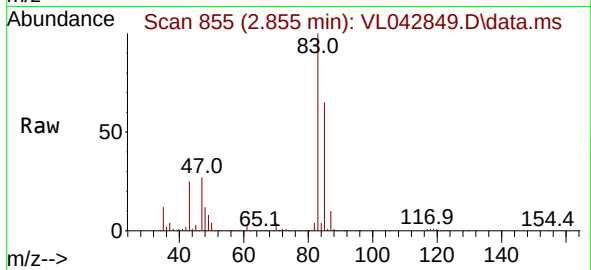
Tgt Ion: 73 Resp: 82126
Ion Ratio Lower Upper
73 100
57 22.9 21.6 32.4





#29
Chloroform
Concen: 9.377 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

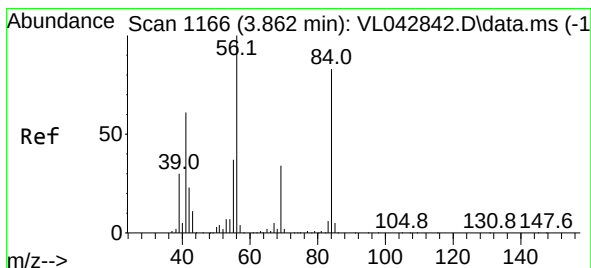
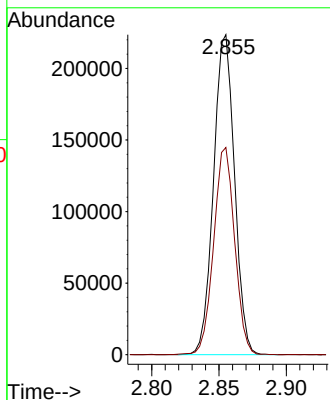
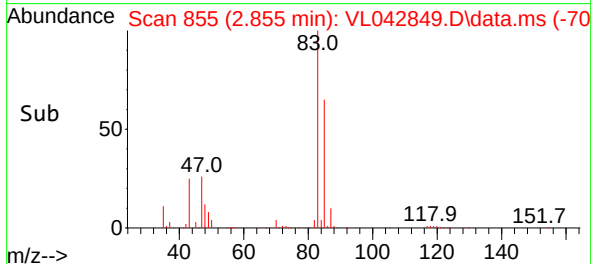
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



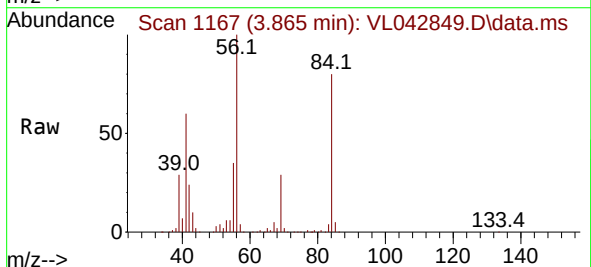
Tgt Ion: 83 Resp: 242320
Ion Ratio Lower Upper
83 100
85 64.8 51.1 76.7

Manual Integrations
APPROVED

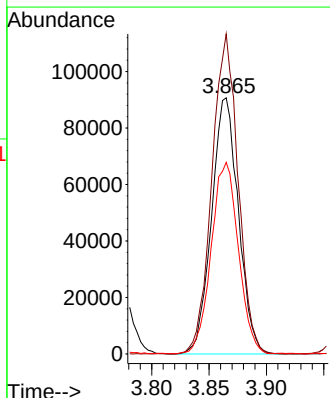
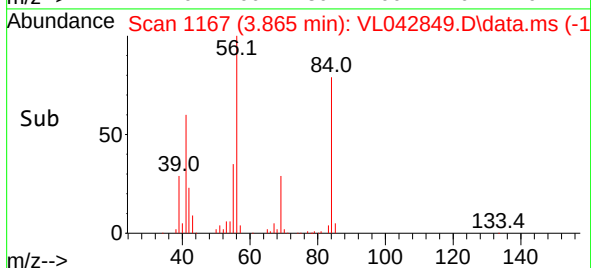
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

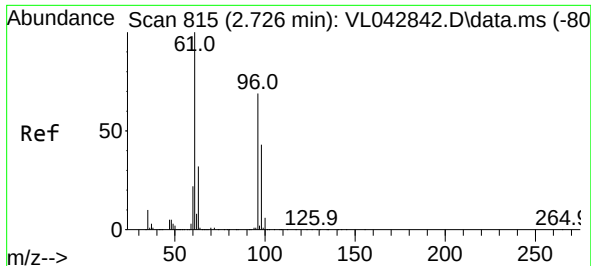


#30
Cyclohexane
Concen: 9.289 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



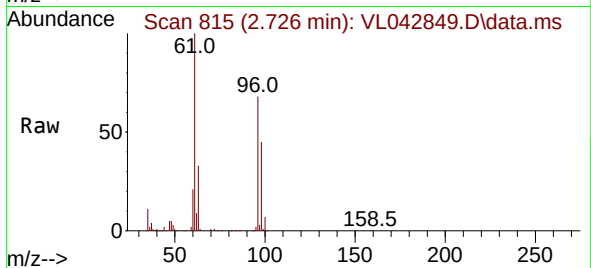
Tgt Ion: 84 Resp: 147417
Ion Ratio Lower Upper
84 100
56 122.1 98.8 148.2
41 75.8 61.3 91.9





#31
 cis-1,2-Dichloroethene
 Concen: 9.196 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

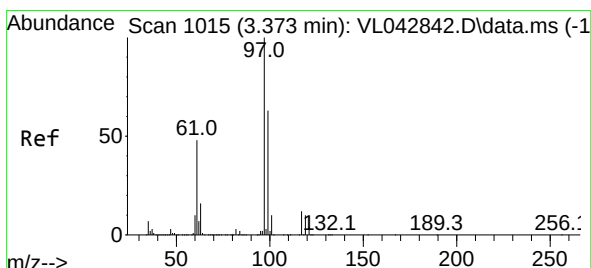
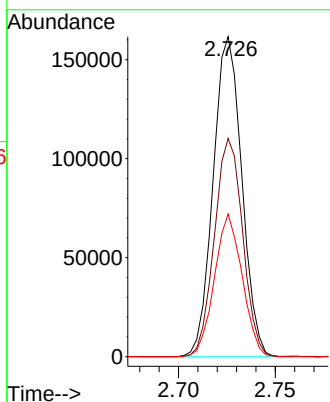
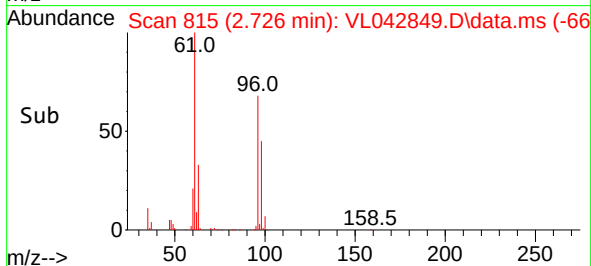
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325



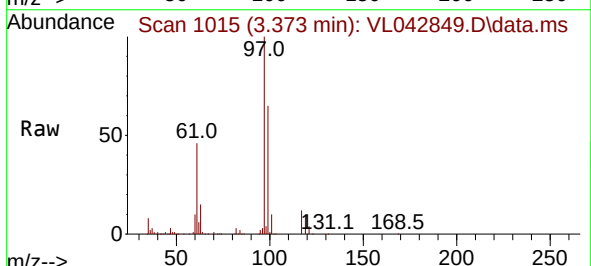
Tgt Ion: 61 Resp: 166268
 Ion Ratio Lower Upper
 61 100
 96 68.2 55.0 82.6
 98 44.5 34.3 51.5

Manual Integrations
 APPROVED

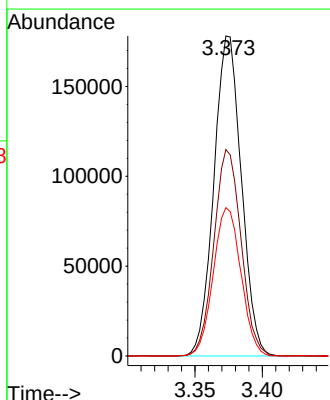
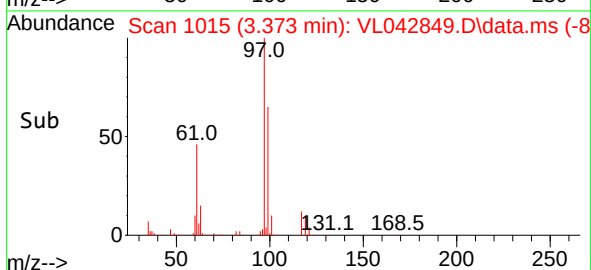
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

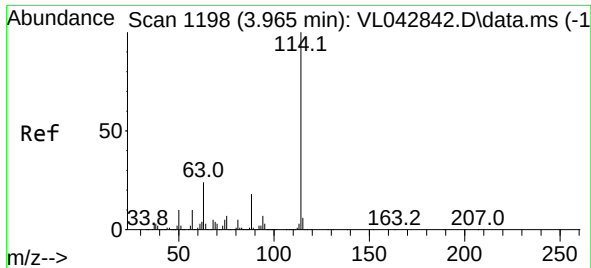


#32
 1,1,1-Trichloroethane
 Concen: 9.256 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



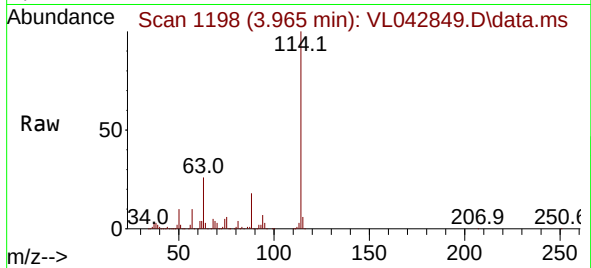
Tgt Ion: 97 Resp: 252813
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.0 76.6
 61 46.7 38.0 57.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

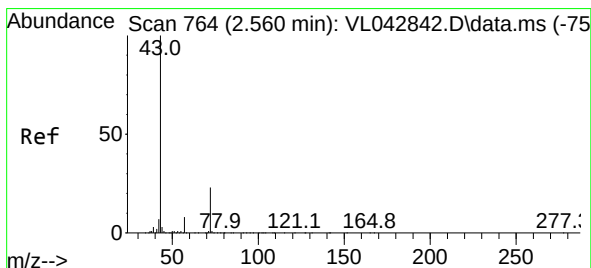
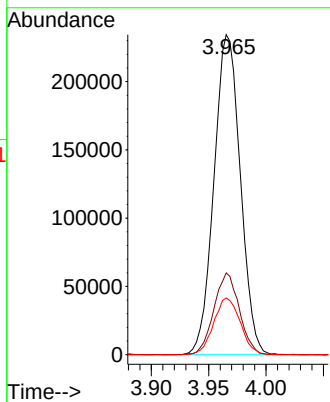
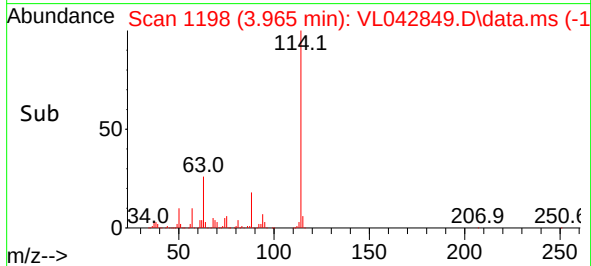
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



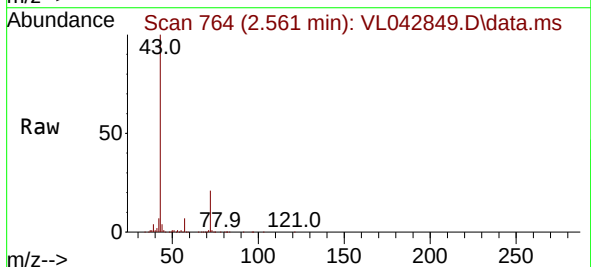
Tgt Ion:114 Resp: 374448
Ion Ratio Lower Upper
114 100
63 24.6 19.7 29.5
88 17.9 14.4 21.6

Manual Integrations
APPROVED

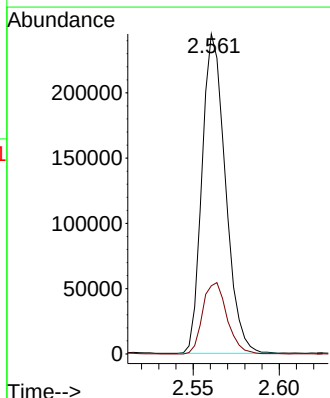
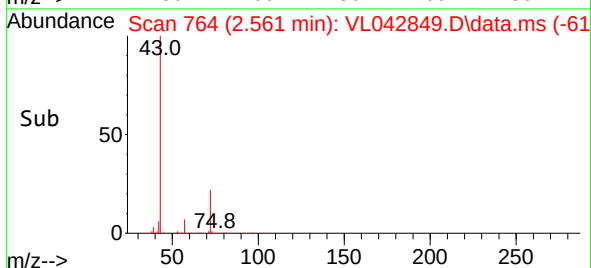
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

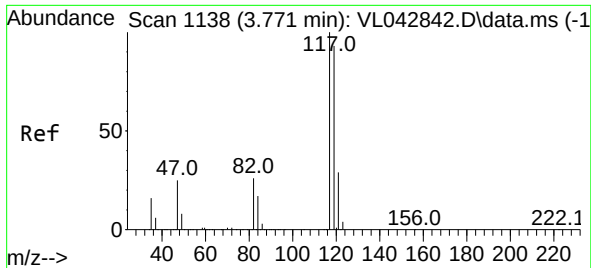


#34
2-Butanone
Concen: 9.135 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



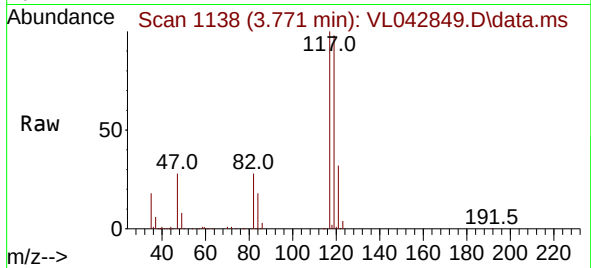
Tgt Ion: 43 Resp: 230961
Ion Ratio Lower Upper
43 100
72 23.4 18.6 28.0





#35
Carbon Tetrachloride
Concen: 9.478 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

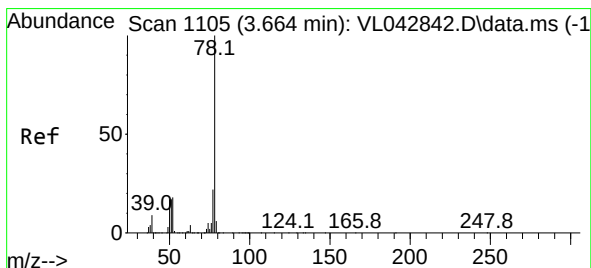
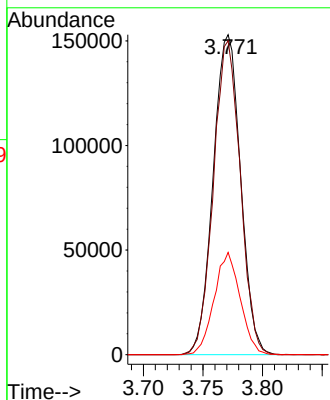
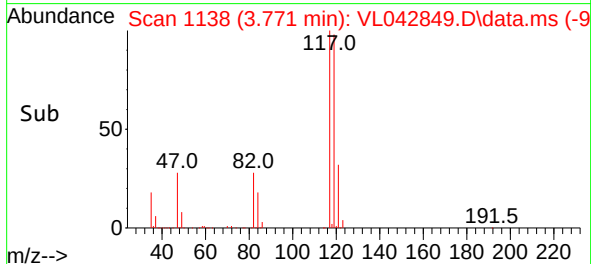
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



Tgt Ion: 117 Resp: 24467
Ion Ratio Lower Upper
117 100
119 98.1 74.7 112.1
121 32.0 23.2 34.8

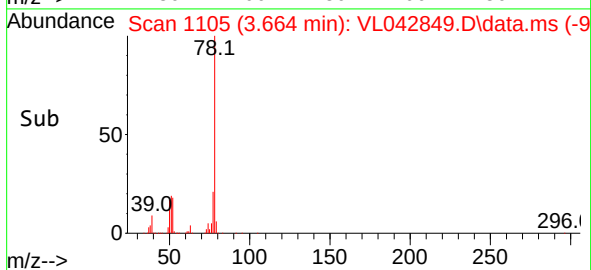
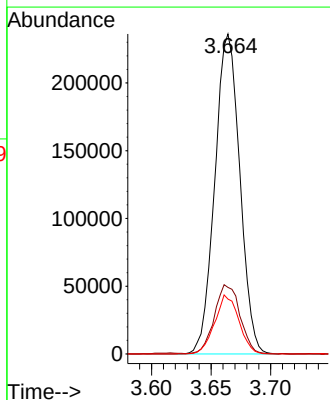
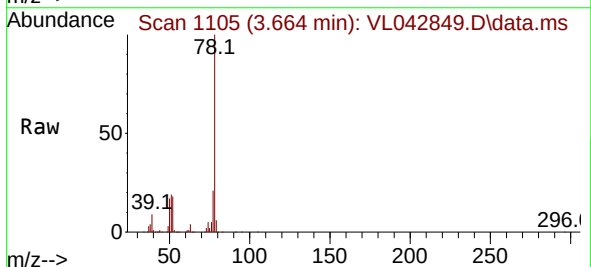
Manual Integrations
APPROVED

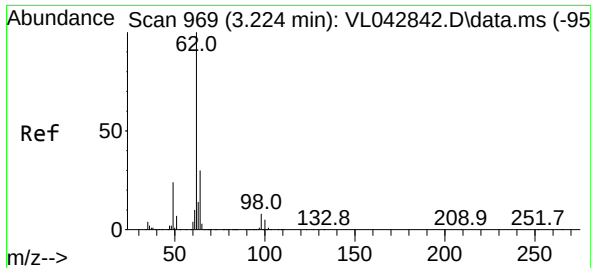
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#36
Benzene
Concen: 9.592 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 78 Resp: 343952
Ion Ratio Lower Upper
78 100
77 20.8 17.7 26.5
50 17.1 13.9 20.9





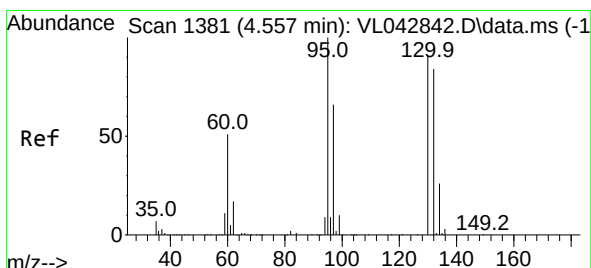
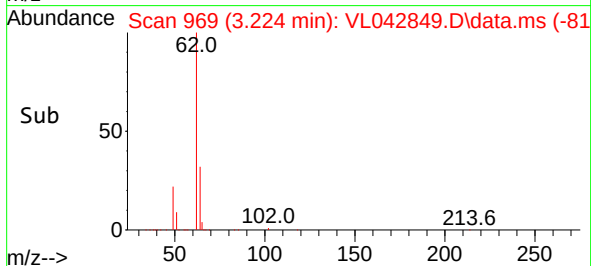
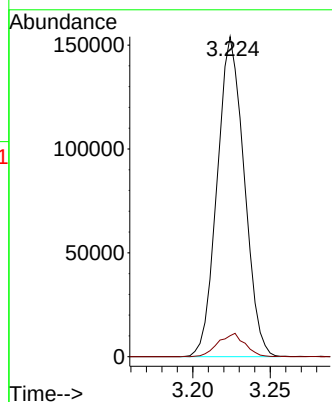
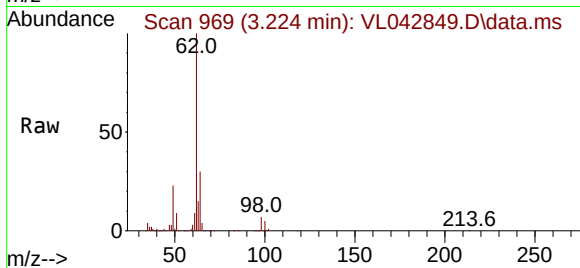
#37
1,2-Dichloroethane
Concen: 9.991 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument : MSVOA_L
ClientSampleId : ICVVL081325

Tgt Ion: 62 Resp: 187160
Ion Ratio Lower Upper
62 100
98 7.2 5.9 8.9

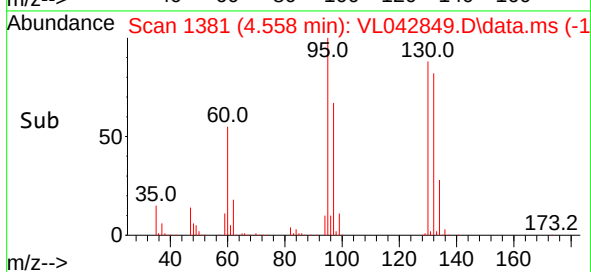
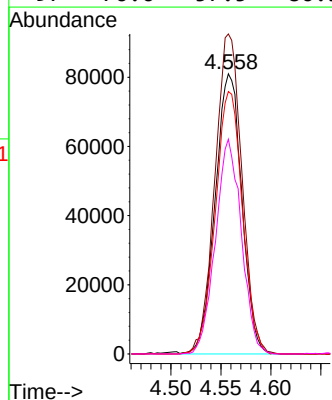
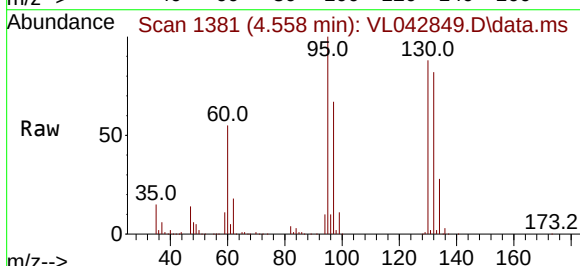
Manual Integrations
APPROVED

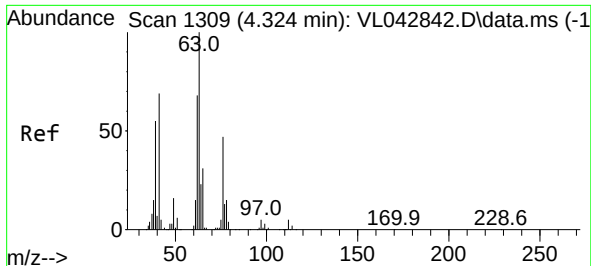
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#38
Trichloroethene
Concen: 9.202 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:130 Resp: 150693
Ion Ratio Lower Upper
130 100
95 114.2 87.6 131.4
132 93.6 73.8 110.8
97 76.6 57.5 86.3





#39

1,2-Dichloropropane

Concen: 9.436 ppbv

RT: 4.324 min Scan# 1309

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

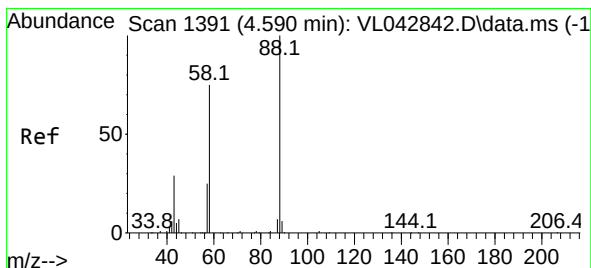
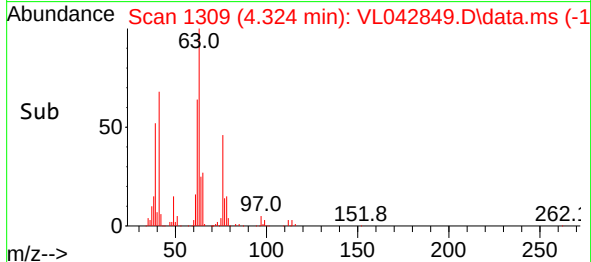
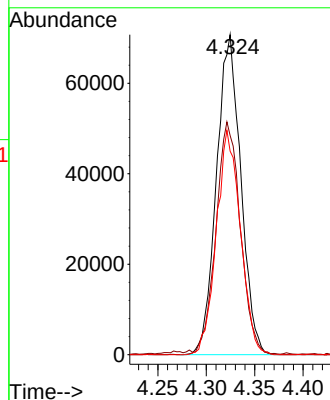
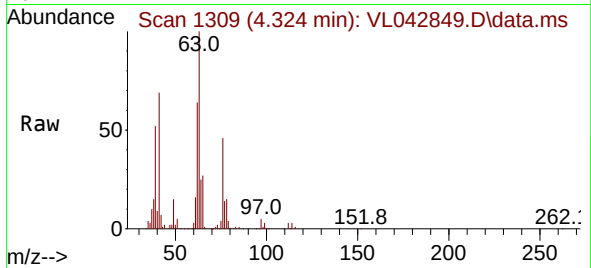
Tgt Ion: 63	Resp: 12356
Ion Ratio	Lower Upper
63 100	
41 68.4	55.0 82.4
62 63.6	54.4 81.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#40

1,4-Dioxane

Concen: 8.879 ppbv

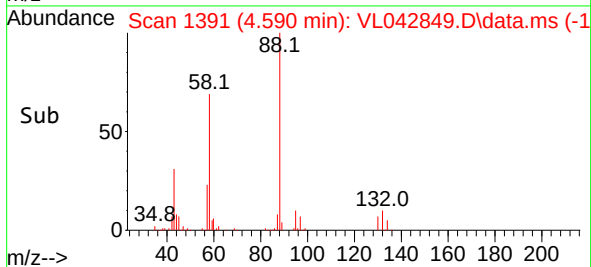
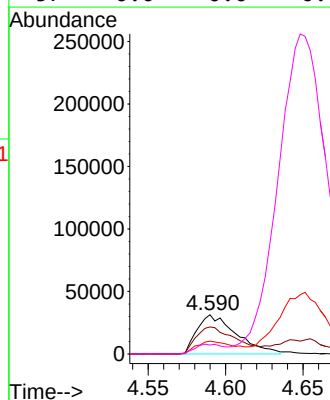
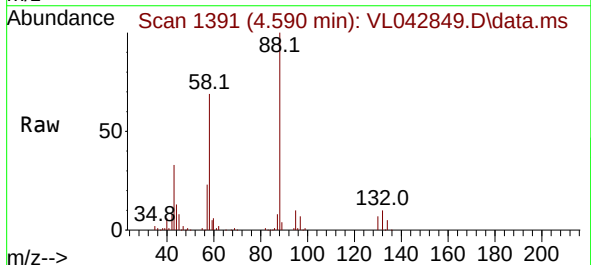
RT: 4.590 min Scan# 1391

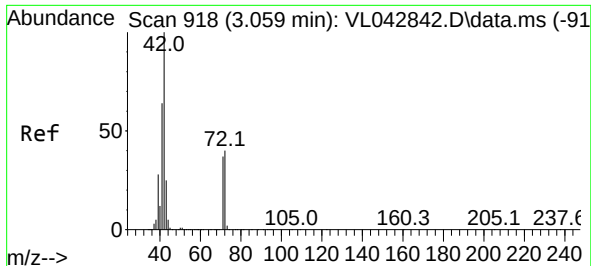
Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

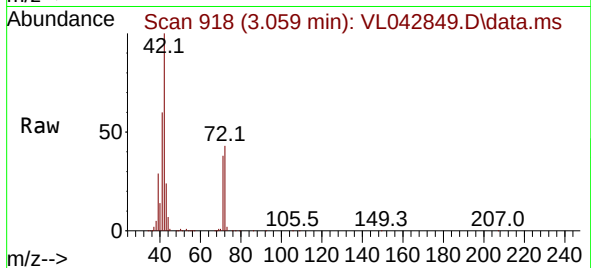
Tgt Ion: 88	Resp: 55292
Ion Ratio	Lower Upper
88 100	
58 72.7	53.8 80.6
43 32.4	22.8 34.2
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 9.372 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

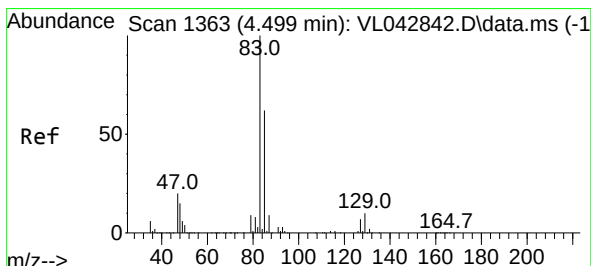
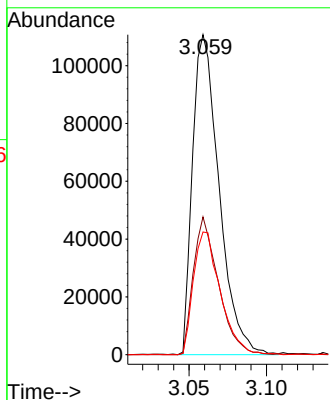
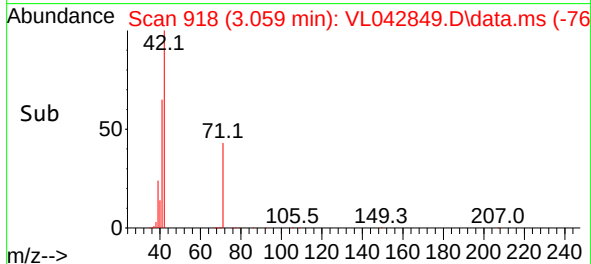
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



Tgt Ion: 42 Resp: 132108
Ion Ratio Lower Upper
42 100
72 40.8 32.6 48.8
71 39.0 30.0 45.0

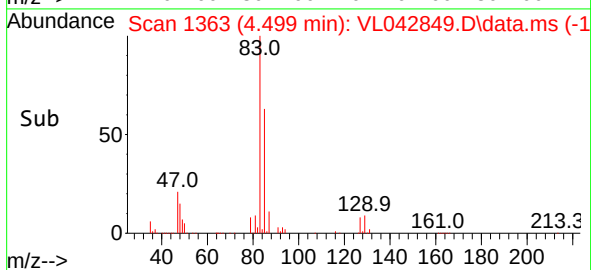
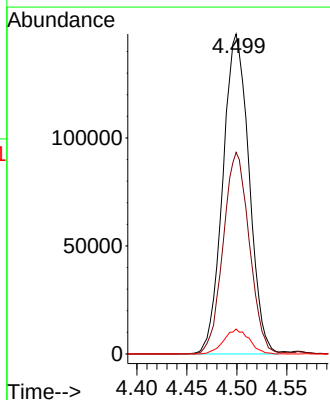
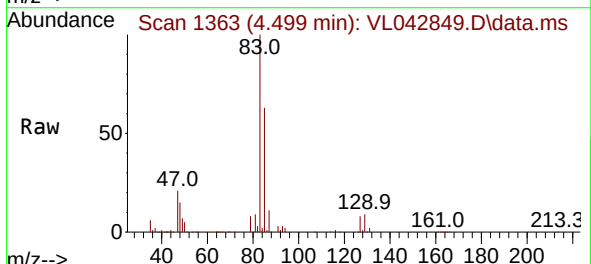
Manual Integrations
APPROVED

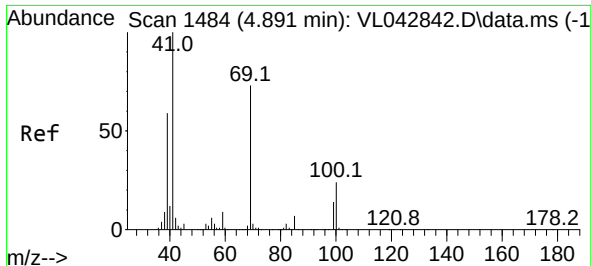
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#42
Bromodichloromethane
Concen: 9.678 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

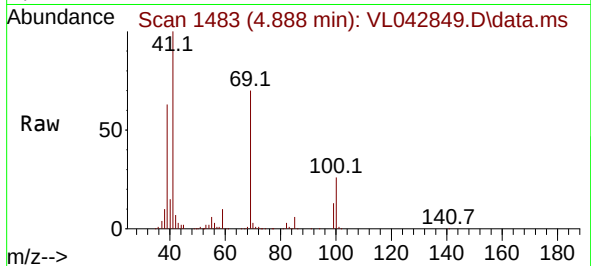
Tgt Ion: 83 Resp: 270154
Ion Ratio Lower Upper
83 100
85 63.0 49.8 74.8
127 7.8 5.8 8.6





#43
Methyl Methacrylate
Concen: 9.229 ppbv
RT: 4.888 min Scan# 1483
Delta R.T. -0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

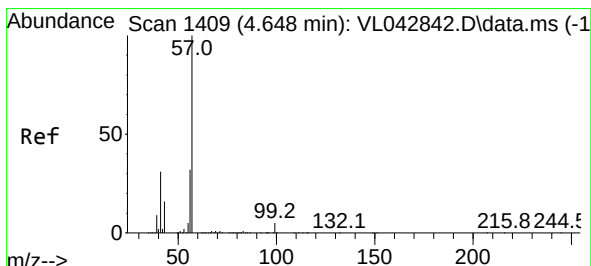
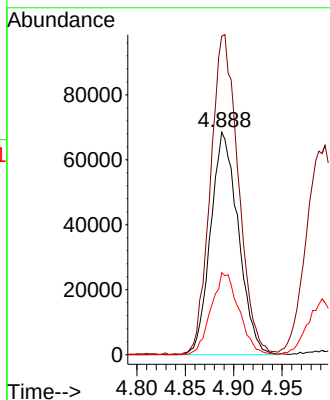
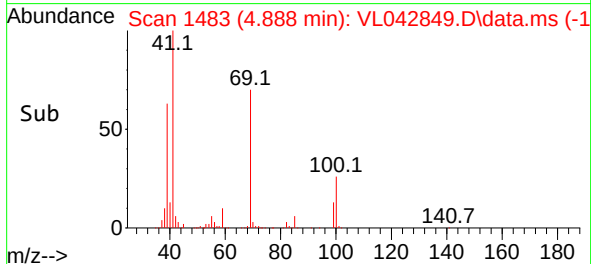
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



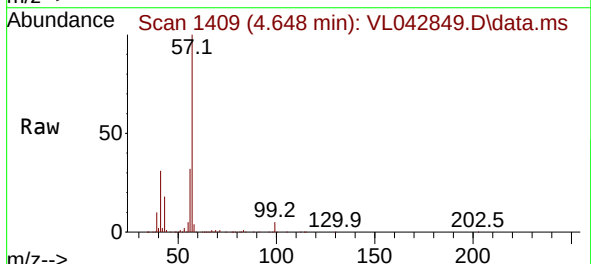
Tgt Ion: 69 Resp: 136329
Ion Ratio Lower Upper
69 100
41 144.9 114.6 172.0
100 37.0 30.2 45.4

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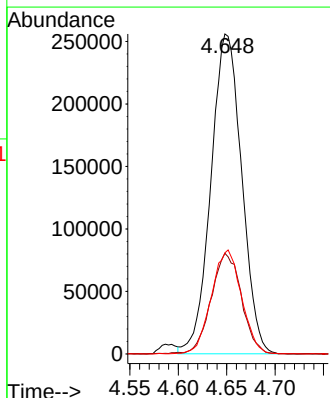
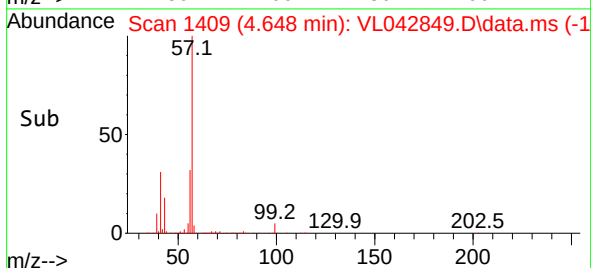
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

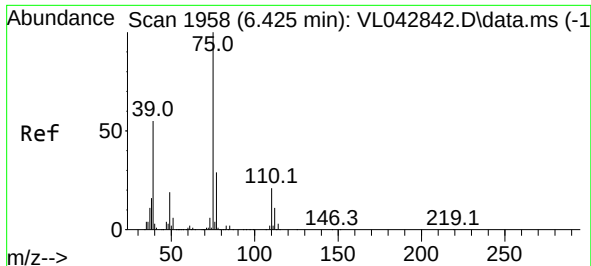


#44
2,2,4-Trimethylpentane
Concen: 9.290 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



Tgt Ion: 57 Resp: 565415
Ion Ratio Lower Upper
57 100
41 31.3 24.8 37.2
56 31.9 25.5 38.3





#45

t-1,3-Dichloropropene

Concen: 9.645 ppbv

RT: 6.428 min Scan# 1958

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

Tgt Ion: 75 Resp: 160784

Ion Ratio Lower Upper

75 100

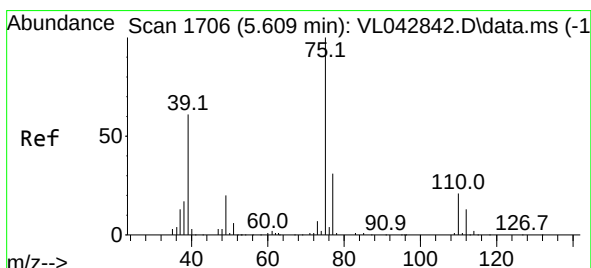
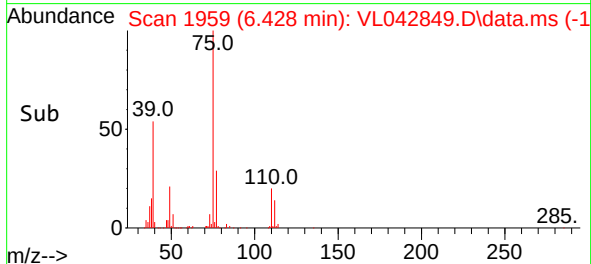
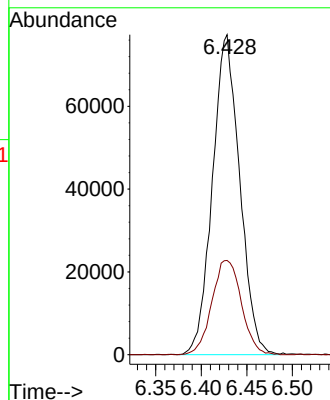
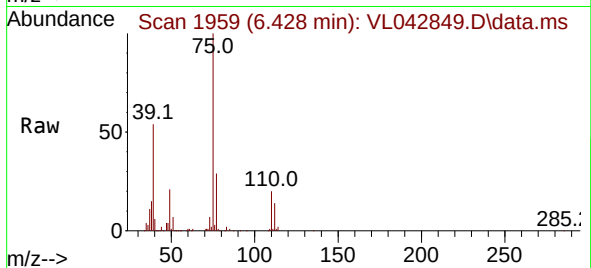
77 29.5 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#46

cis-1,3-Dichloropropene

Concen: 9.628 ppbv m

RT: 5.613 min Scan# 1707

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

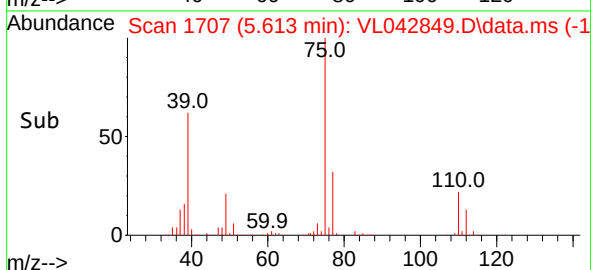
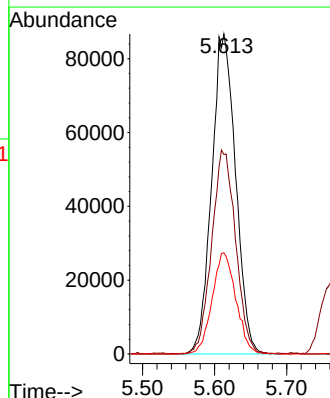
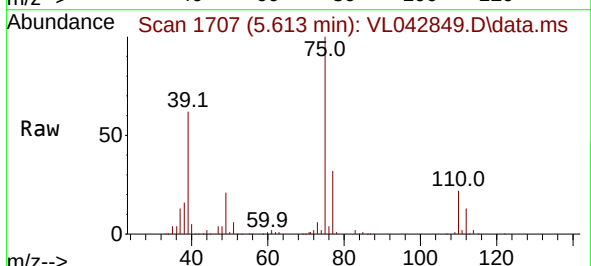
Tgt Ion: 75 Resp: 199988

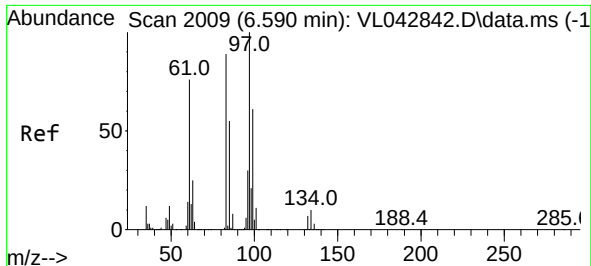
Ion Ratio Lower Upper

75 100

39 62.4 48.9 73.3

77 31.6 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 9.553 ppbv

RT: 6.597 min Scan# 2009

Delta R.T. 0.007 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

Tgt Ion: 97 Resp: 132548

Ion Ratio Lower Upper

97 100

83 89.3 71.0 106.4

85 52.6 43.6 65.4

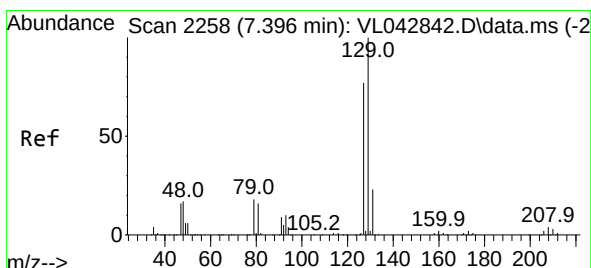
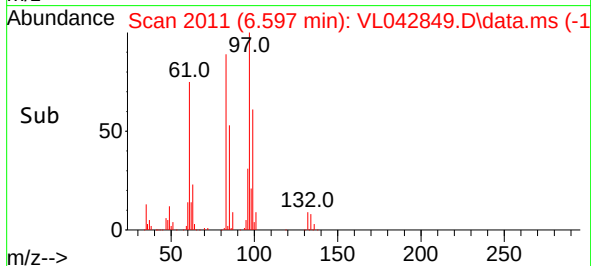
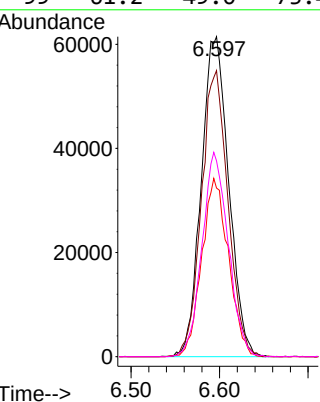
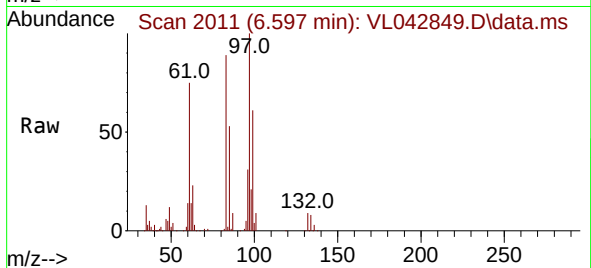
99 61.2 49.0 73.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#48

Dibromochloromethane

Concen: 9.708 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.003 min

Lab File: VL042849.D

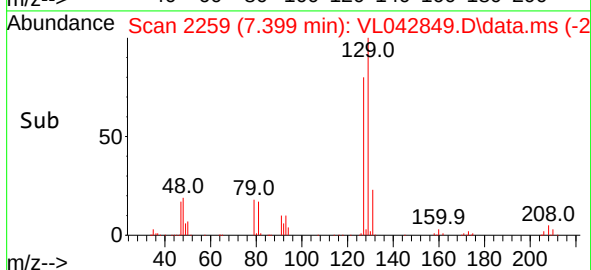
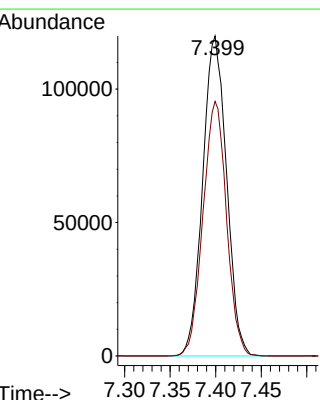
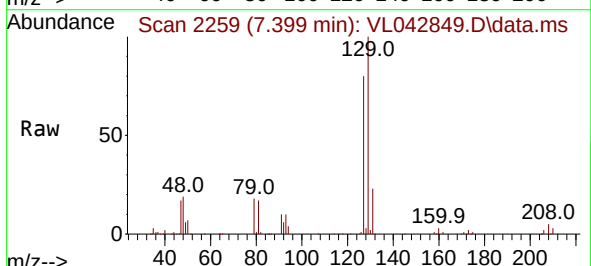
Acq: 13 Aug 2025 12:56

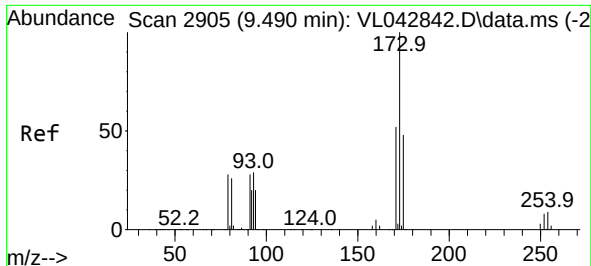
Tgt Ion:129 Resp: 217970

Ion Ratio Lower Upper

129 100

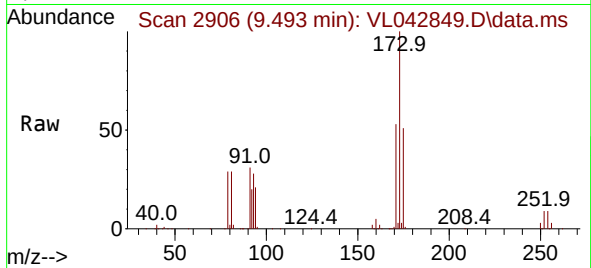
127 78.5 39.4 118.2





#49
Bromoform
Concen: 9.446 ppbv
RT: 9.493 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

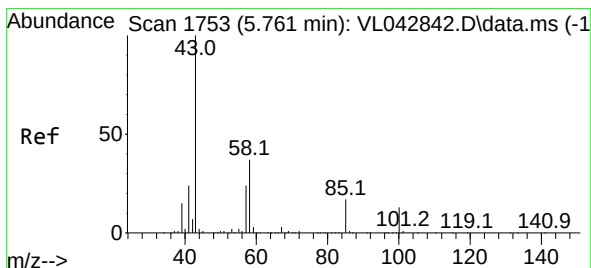
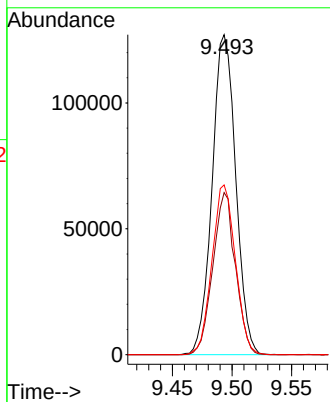
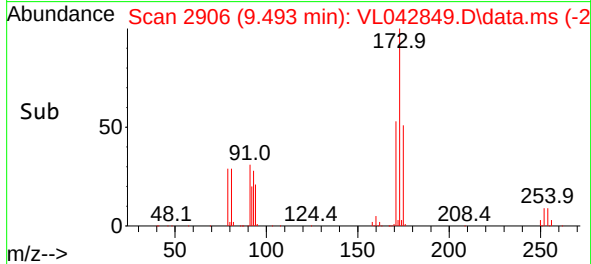
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



Tgt Ion: 173 Resp: 174914
Ion Ratio Lower Upper
173 100
175 48.4 39.2 58.8
171 52.6 41.3 61.9

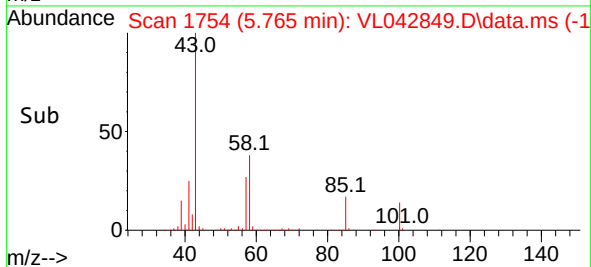
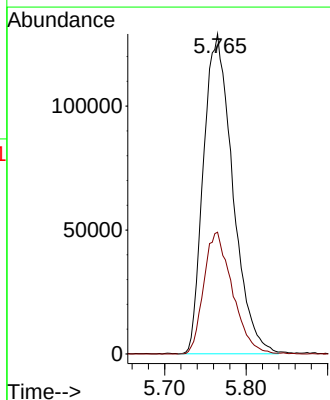
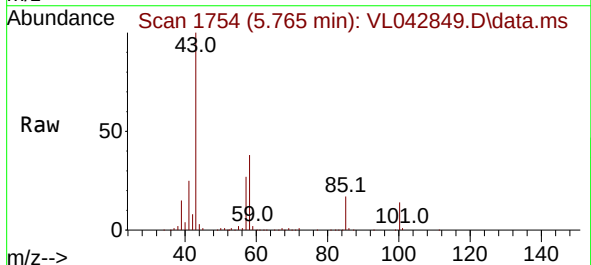
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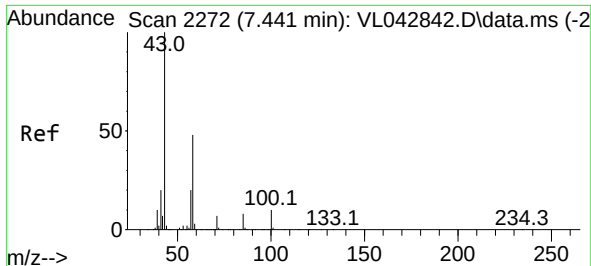
Reviewed By : Semsettin Yesilyurt 08/14/2025
Supervised By : Mahesh Dadoda 08/18/2025



#50
4-Methyl-2-Pentanone
Concen: 9.430 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

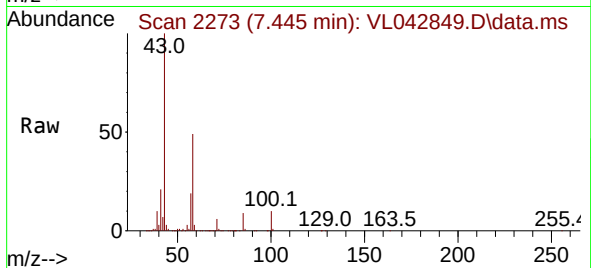
Tgt Ion: 43 Resp: 322264
Ion Ratio Lower Upper
43 100
58 37.3 29.8 44.8





#51
2-Hexanone
Concen: 9.791 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

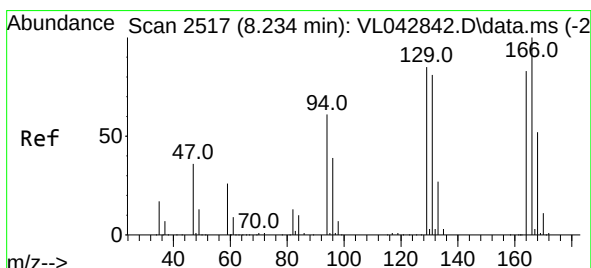
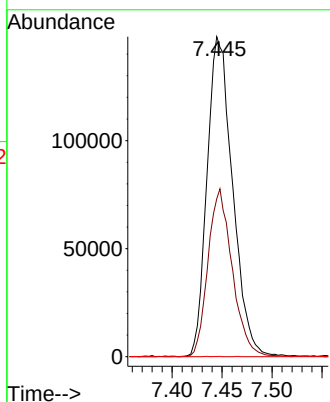
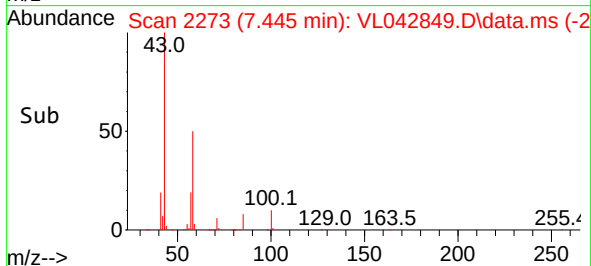
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



Tgt Ion: 43 Resp: 26332
Ion Ratio Lower Upper
43 100
58 49.9 41.0 61.6
98 0.1 0.1 0.1

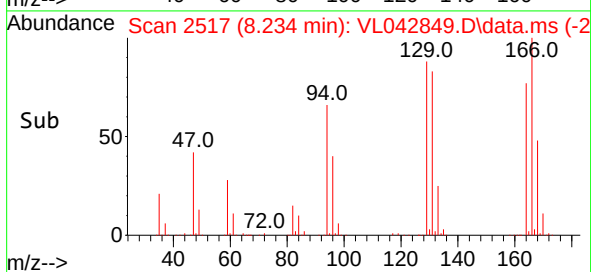
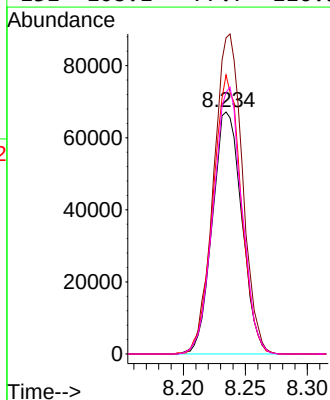
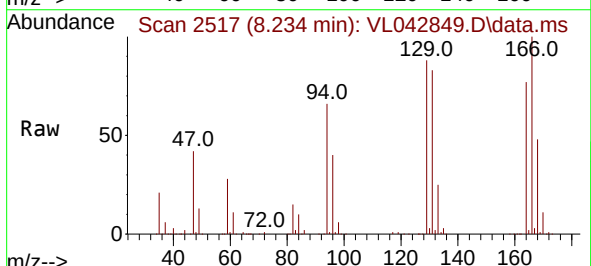
Manual Integrations
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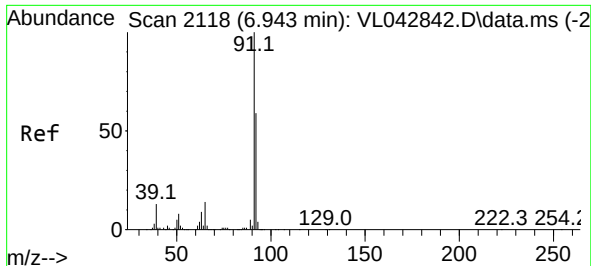
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#52
Tetrachloroethene
Concen: 8.544 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:164 Resp: 110828
Ion Ratio Lower Upper
164 100
166 130.6 96.5 144.7
129 115.3 81.8 122.6
131 108.1 77.7 116.5





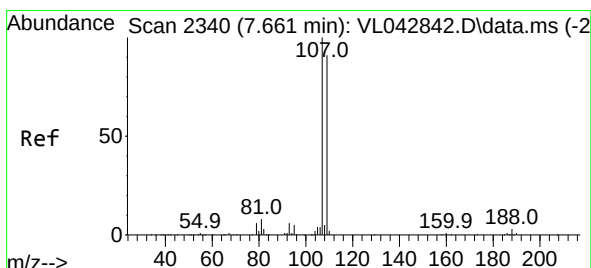
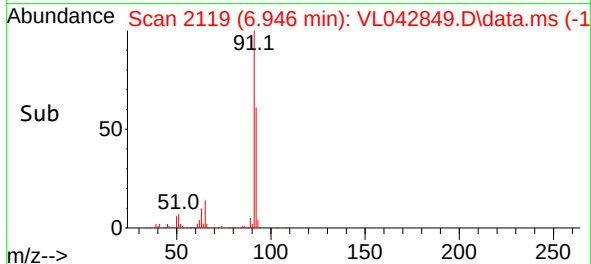
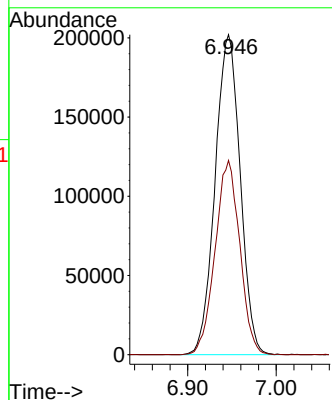
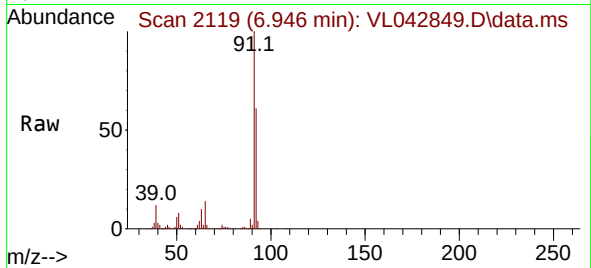
#53
Toluene
Concen: 9.340 ppbv
RT: 6.946 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 91 Resp: 398138
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6

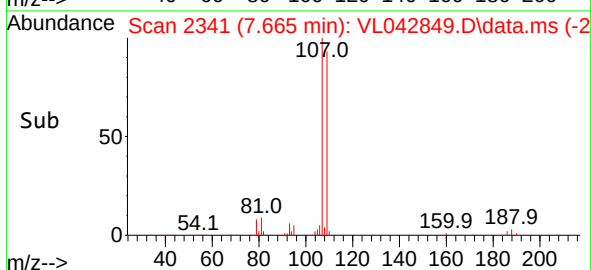
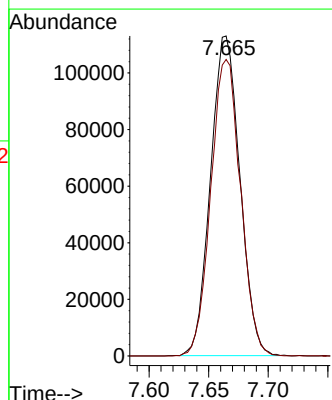
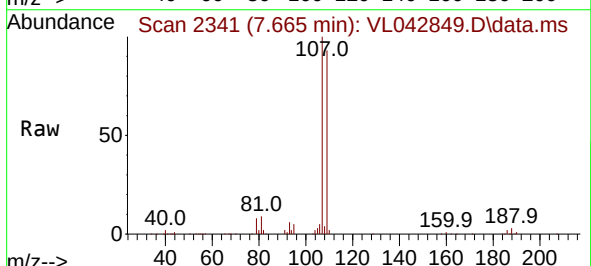
Manual Integrations
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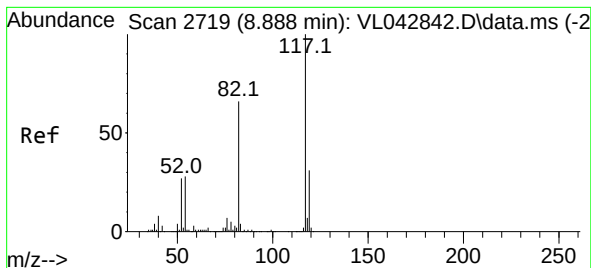
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#54
1,2-Dibromoethane
Concen: 9.535 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:107 Resp: 193340
Ion Ratio Lower Upper
107 100
109 92.7 72.5 108.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 2719

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

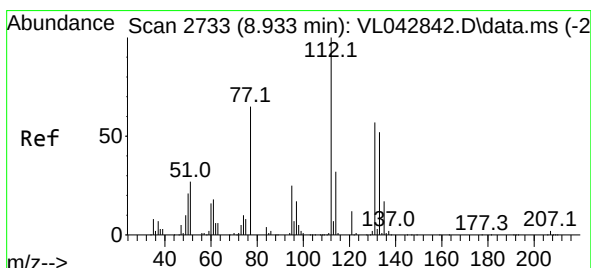
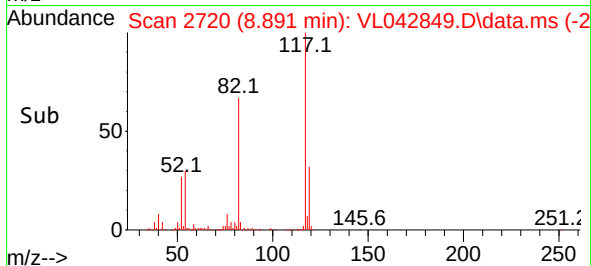
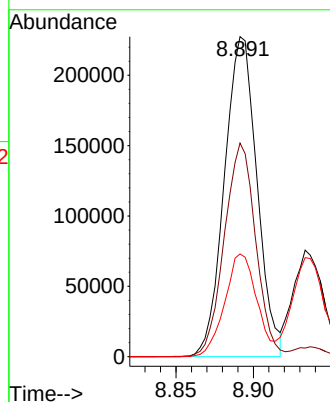
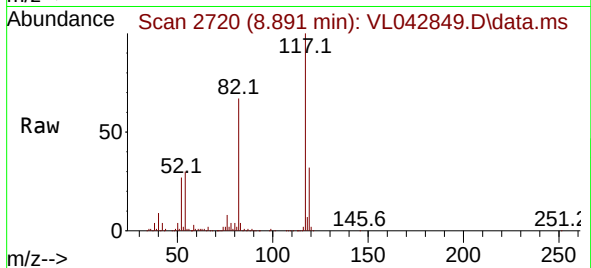
ICVVL081325

Tgt Ion:117	Resp: 33349
Ion Ratio	Lower Upper
117 100	
82 67.3	54.6 81.8
119 31.8	25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 9.291 ppbv

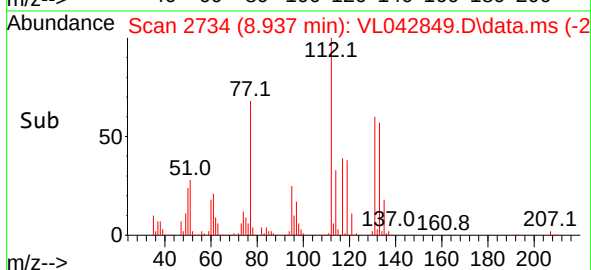
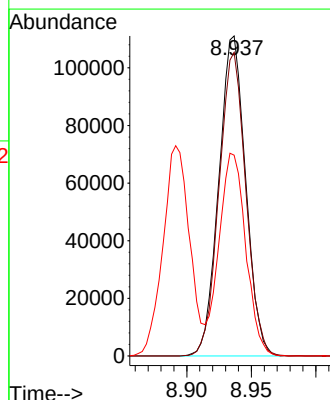
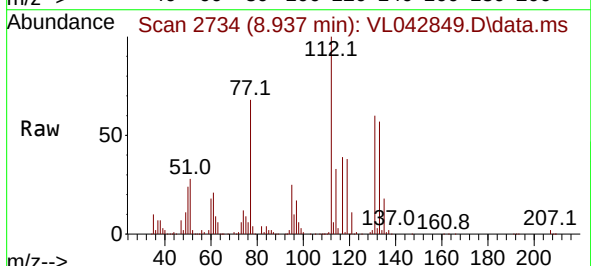
RT: 8.937 min Scan# 2734

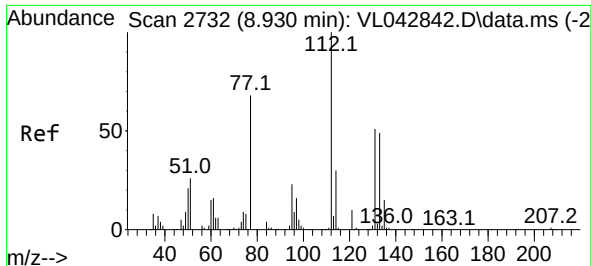
Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Tgt Ion:131	Resp: 160225
Ion Ratio	Lower Upper
131 100	
133 94.8	77.4 116.0
119 64.3	51.2 76.8





#57
Chlorobenzene
Concen: 9.378 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

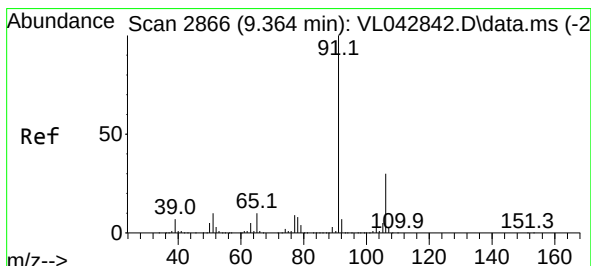
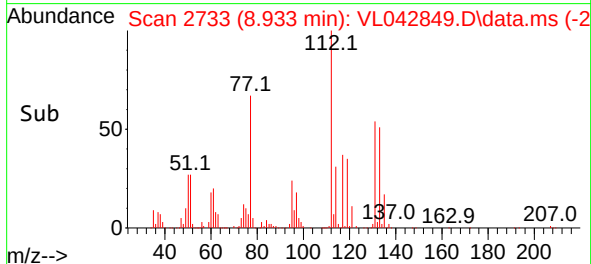
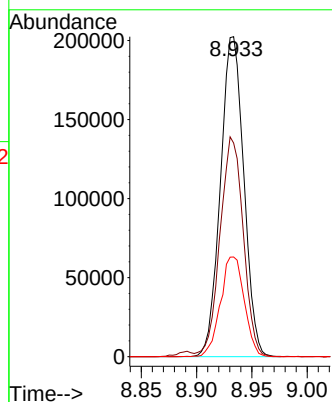
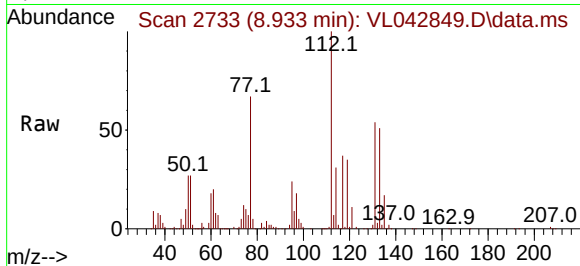
ICVVL081325

Tgt Ion:112 Resp: 297375
Ion Ratio Lower Upper
112 100
77 66.6 55.5 83.3
114 31.2 27.2 33.2

Manual Integrations

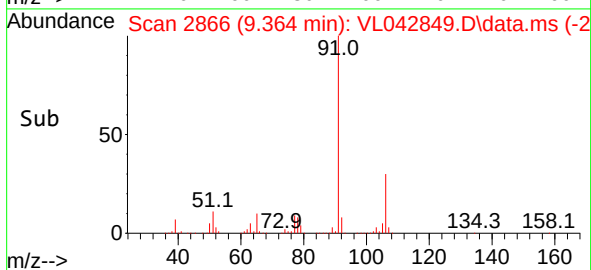
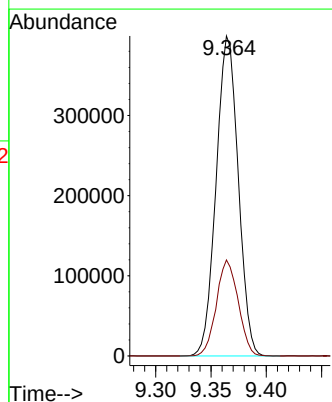
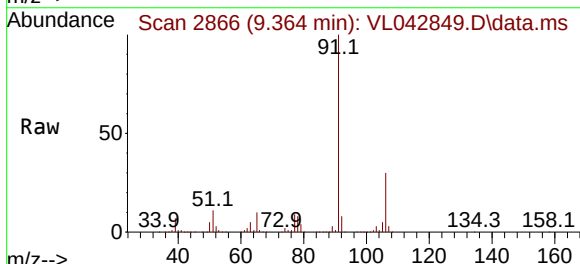
APPROVED

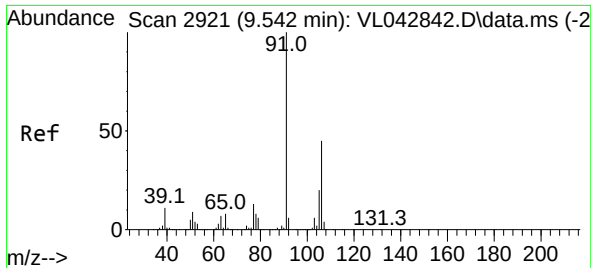
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#58
Ethyl Benzene
Concen: 9.414 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 91 Resp: 554015
Ion Ratio Lower Upper
91 100
106 30.0 23.9 35.9





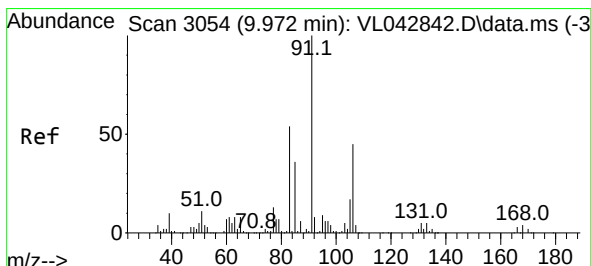
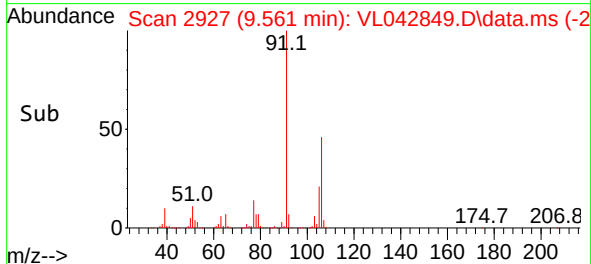
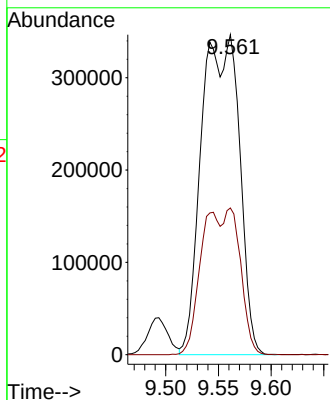
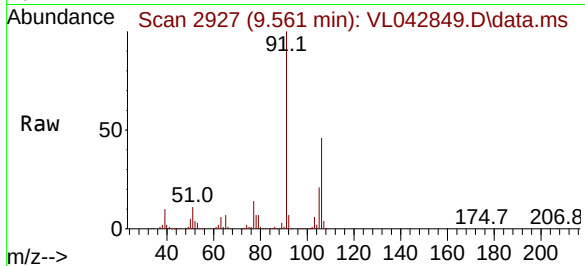
#59
m/p-Xylene
Concen: 18.754 ppbv m
RT: 9.561 min Scan# 2921
Delta R.T. 0.019 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 91 Resp: 865100
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

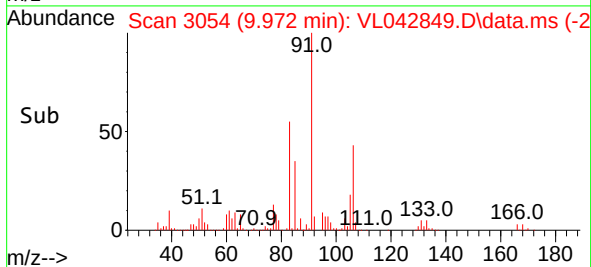
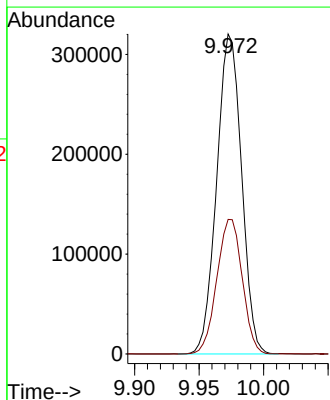
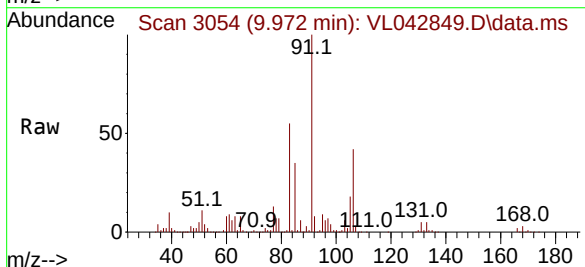
Manual Integrations
APPROVED

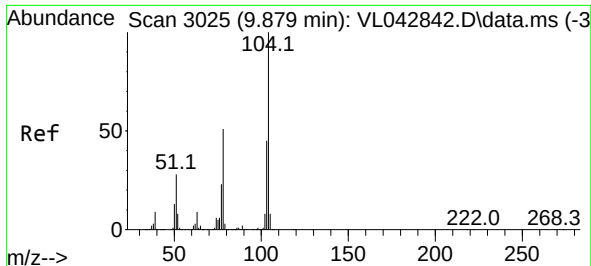
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#60
o-Xylene
Concen: 9.239 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

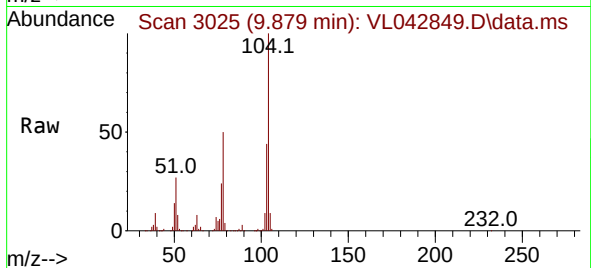
Tgt Ion: 91 Resp: 428721
Ion Ratio Lower Upper
91 100
106 43.0 21.8 65.4





#61
Styrene
Concen: 9.377 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

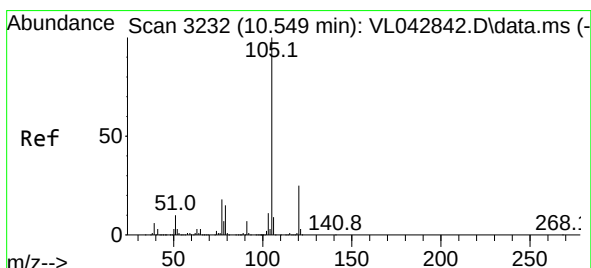
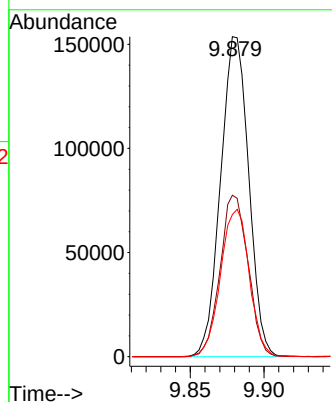
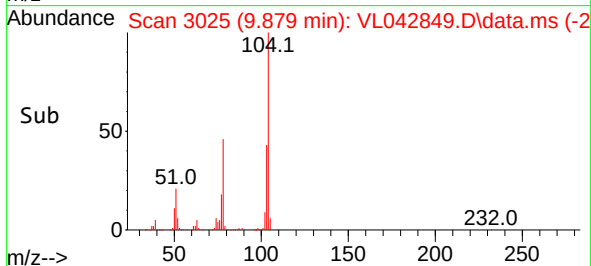
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



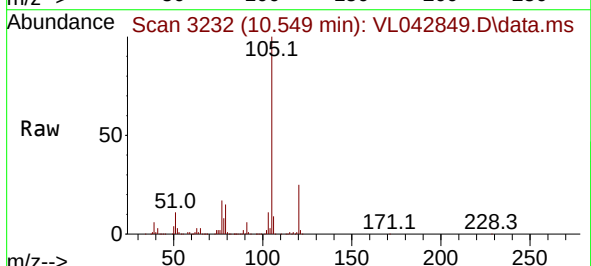
Tgt Ion:104 Resp: 203858
Ion Ratio Lower Upper
104 100
78 50.3 40.6 61.0
103 47.1 37.7 56.5

Manual Integrations
APPROVED

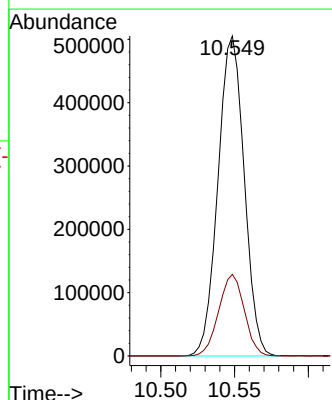
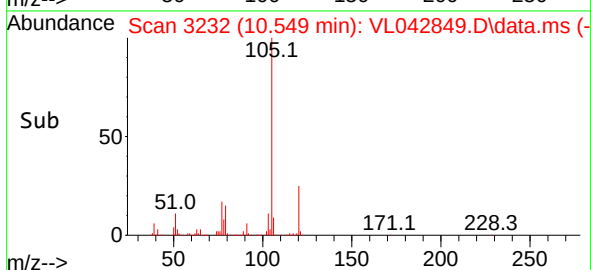
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

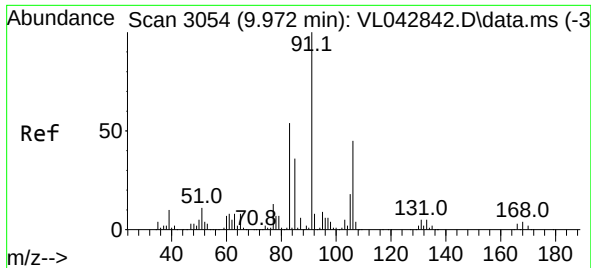


#62
Isopropylbenzene
Concen: 9.206 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



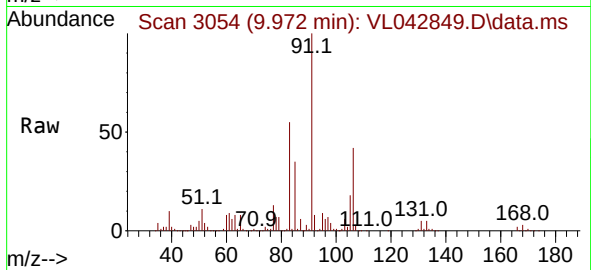
Tgt Ion:105 Resp: 624287
Ion Ratio Lower Upper
105 100
120 24.9 20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 8.826 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

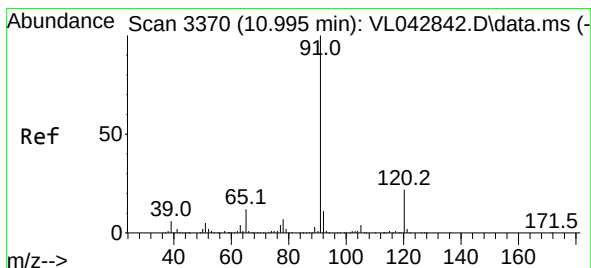
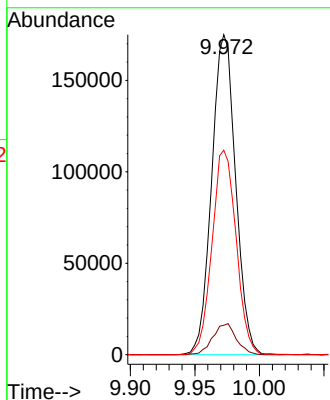
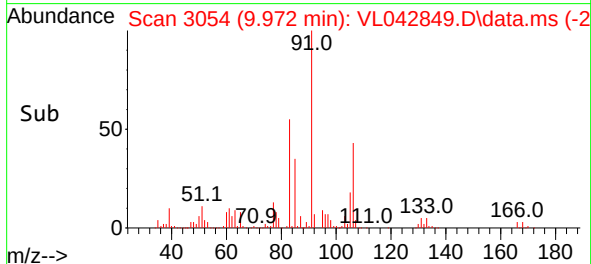
Instrument : MSVOA_L
ClientSampleId : ICVVL081325



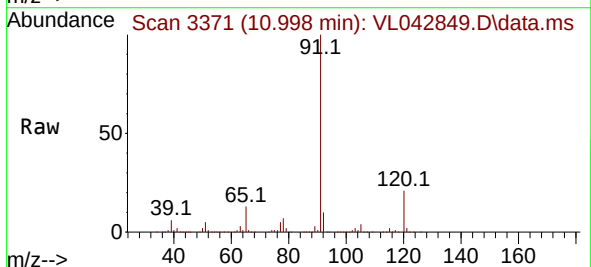
Tgt Ion: 83 Resp: 22523
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 64.4 32.3 96.8

Manual Integrations
APPROVED

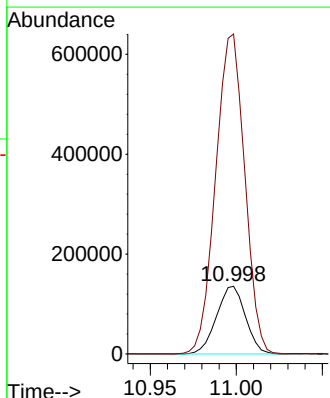
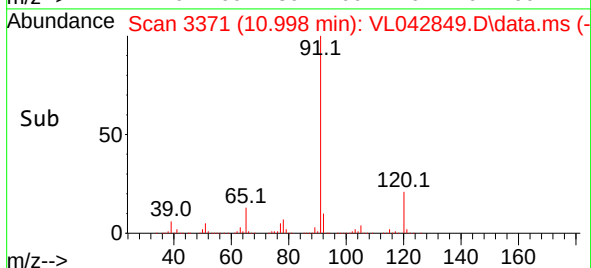
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

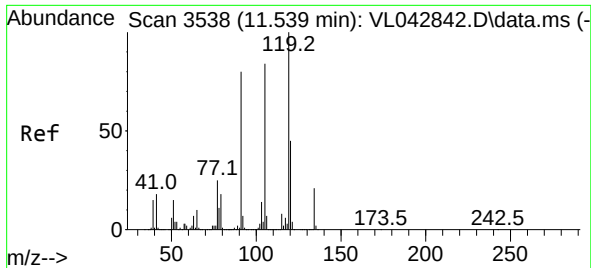


#64
n-propylbenzene
Concen: 9.145 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



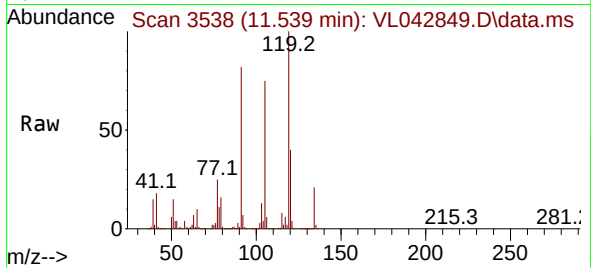
Tgt Ion:120 Resp: 158234
Ion Ratio Lower Upper
120 100
91 476.9 375.8 563.6





#65
tert-Butylbenzene
Concen: 8.946 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

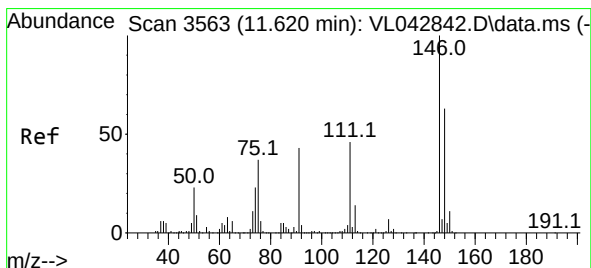
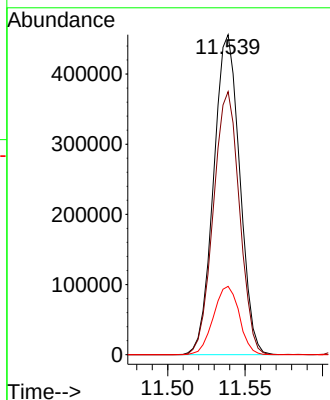
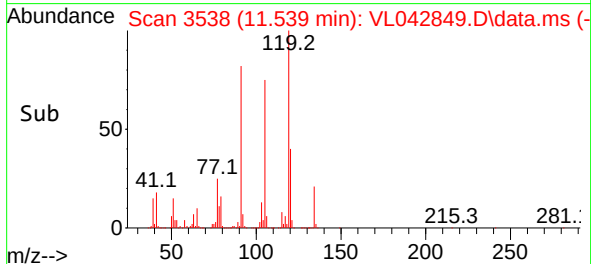
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



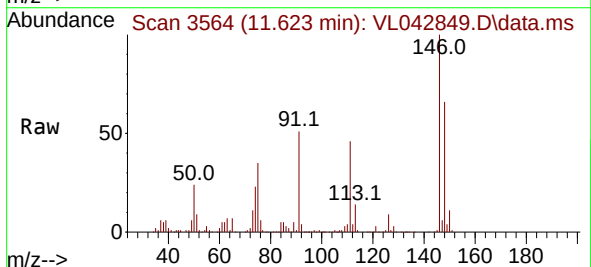
Tgt Ion: 119 Resp: 53479
Ion Ratio Lower Upper
119 100
91 82.2 63.9 95.9
134 21.1 17.0 25.4

Manual Integrations
APPROVED

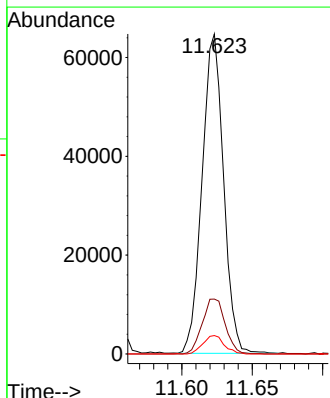
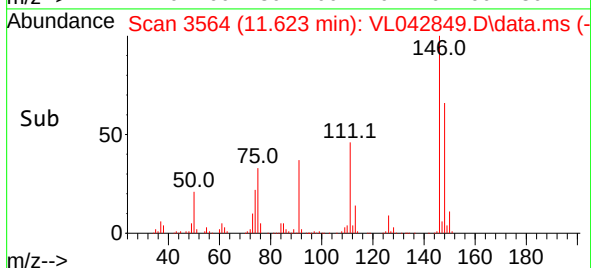
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

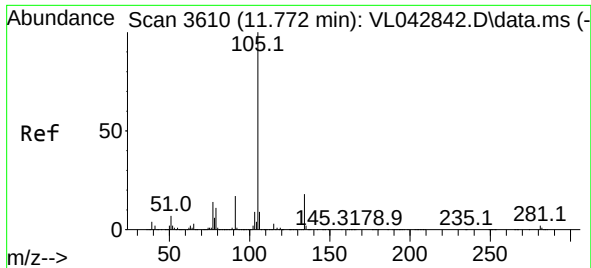


#66
Benzyl Chloride
Concen: 9.031 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



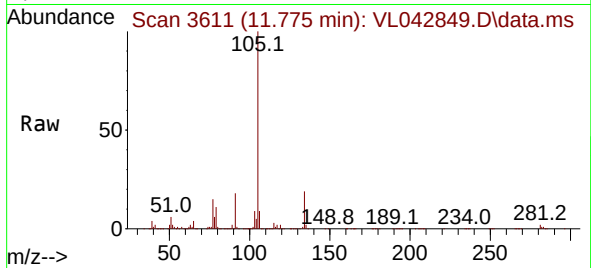
Tgt Ion: 91 Resp: 68533
Ion Ratio Lower Upper
91 100
126 18.4 14.2 21.4
128 5.7 5.0 7.6





#67
 sec-Butylbenzene
 Concen: 9.088 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.003 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

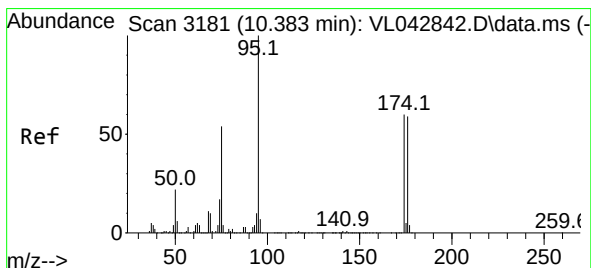
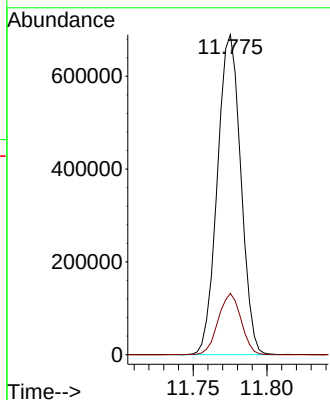
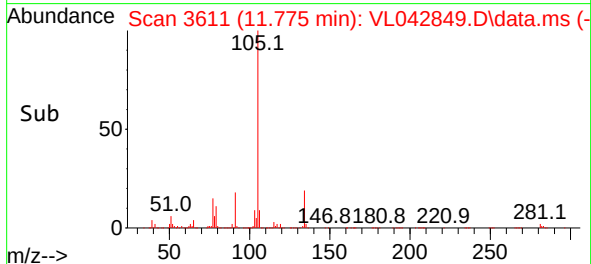
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325



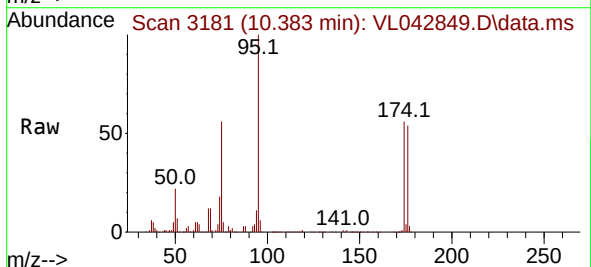
Tgt Ion: 105 Resp: 762602
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3

Manual Integrations
 APPROVED

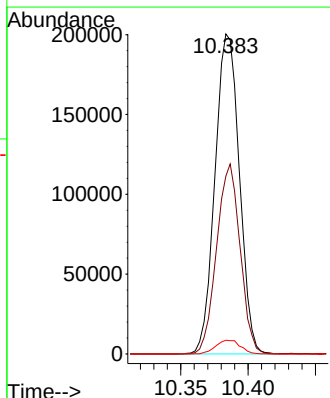
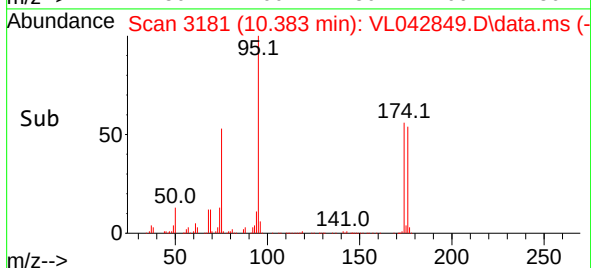
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

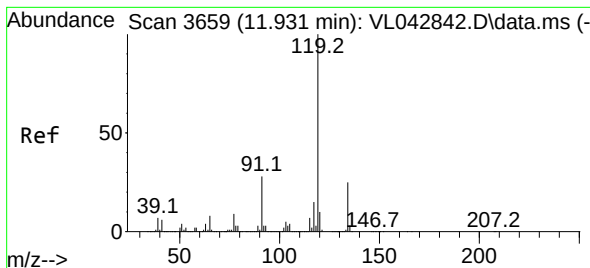


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.086 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56



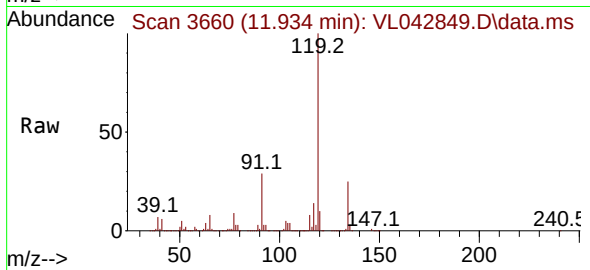
Tgt Ion: 95 Resp: 252268
 Ion Ratio Lower Upper
 95 100
 174 57.2 48.4 72.6
 175 4.4 3.8 5.8





#69
p-Isopropyltoluene
Concen: 8.810 ppbv
RT: 11.934 min Scan# 3660
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

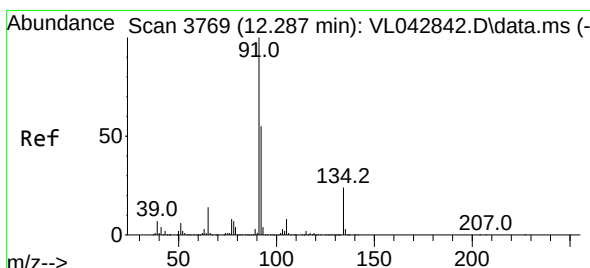
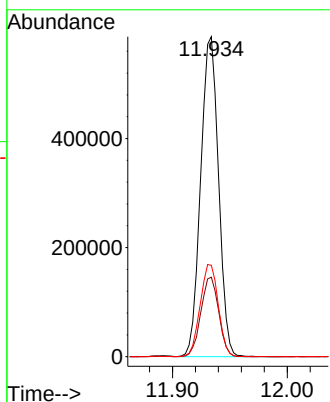
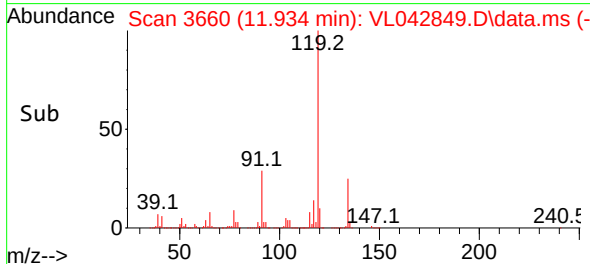
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



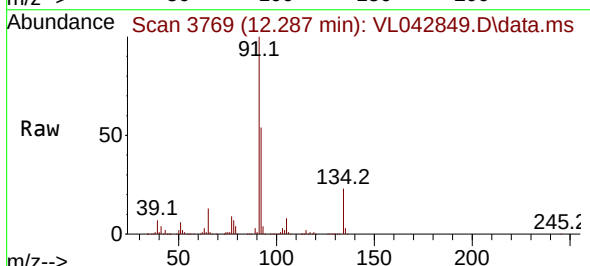
Tgt Ion: 119 Resp: 634670
Ion Ratio Lower Upper
119 100
134 24.9 20.6 30.8
91 29.4 22.6 34.0

Manual Integrations
APPROVED

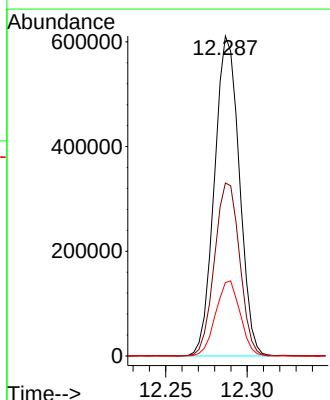
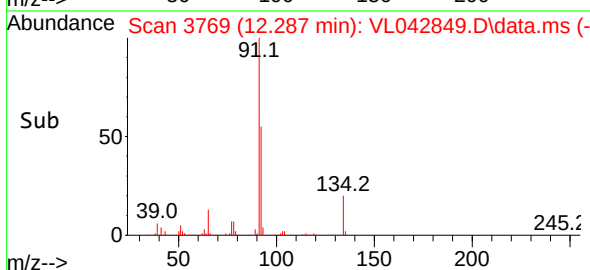
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

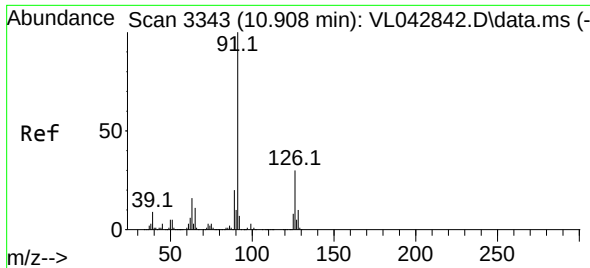


#70
n-Butylbenzene
Concen: 9.062 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



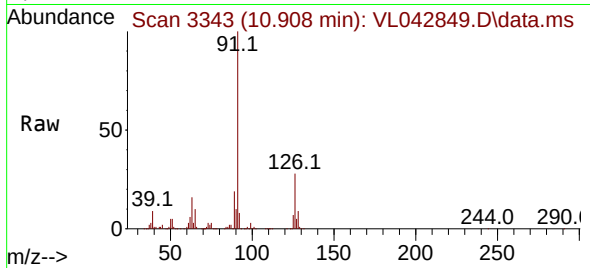
Tgt Ion: 91 Resp: 647453
Ion Ratio Lower Upper
91 100
92 54.8 44.6 66.8
134 23.1 19.0 28.4





#71
2-Chlorotoluene
Concen: 9.214 ppbv
RT: 10.908 min Scan# 3112
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

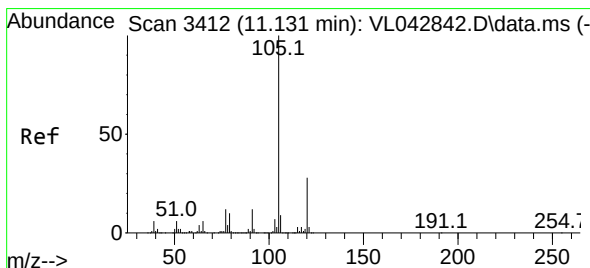
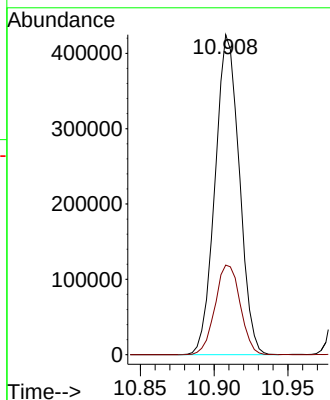
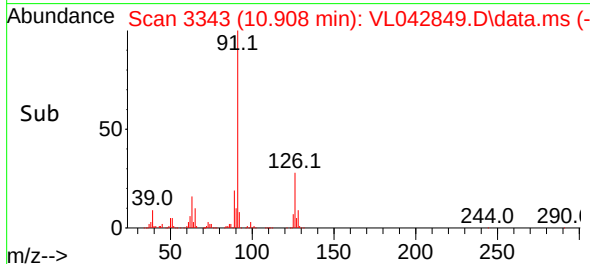
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



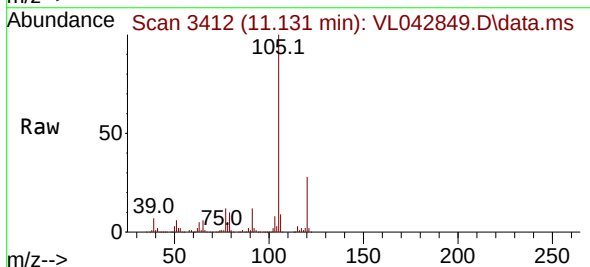
Tgt Ion: 91 Resp: 48517
Ion Ratio Lower Upper
91 100
126 29.1 12.0 47.8

Manual Integrations
APPROVED

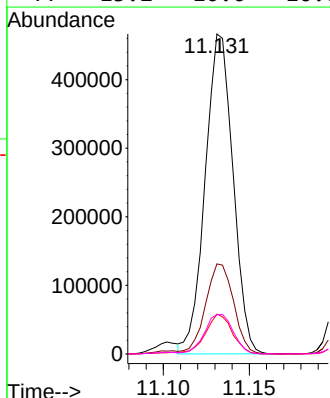
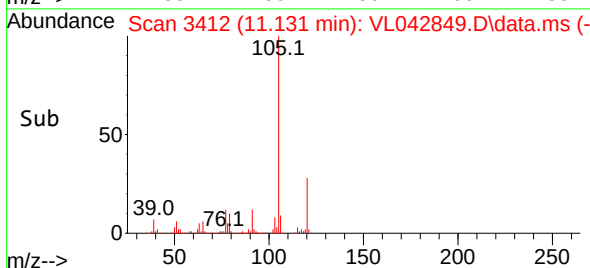
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

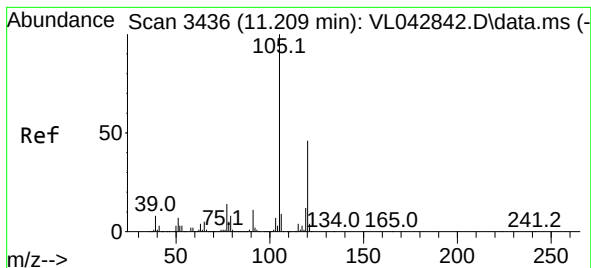


#72
4-Ethyltoluene
Concen: 9.338 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56



Tgt Ion:105 Resp: 525262
Ion Ratio Lower Upper
105 100
120 29.2 23.4 35.2
91 12.5 9.8 14.6
77 13.2 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 9.108 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

Tgt Ion:105 Resp: 435708

Ion Ratio Lower Upper

105 100

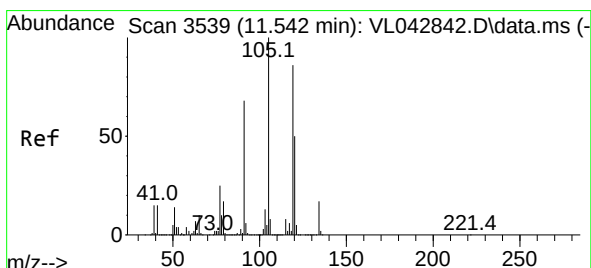
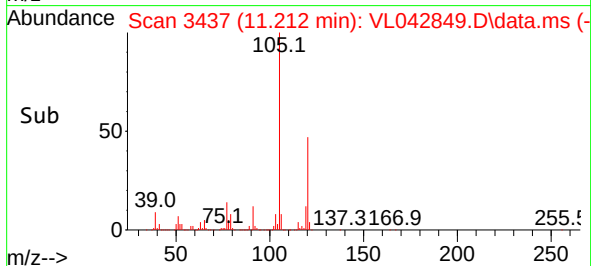
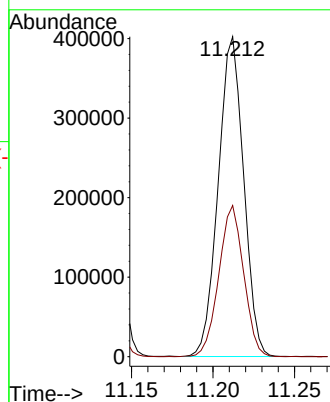
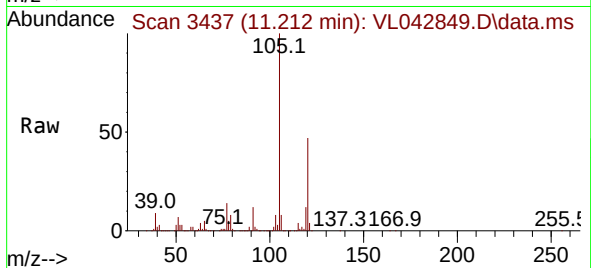
120 47.2 36.6 54.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.943 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Tgt Ion:105 Resp: 469573

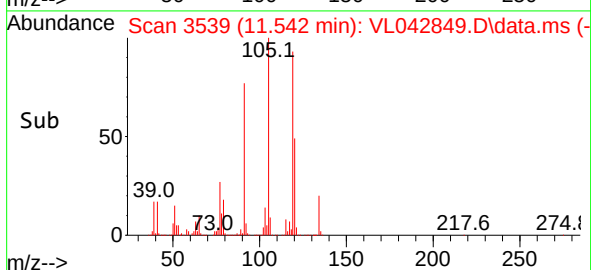
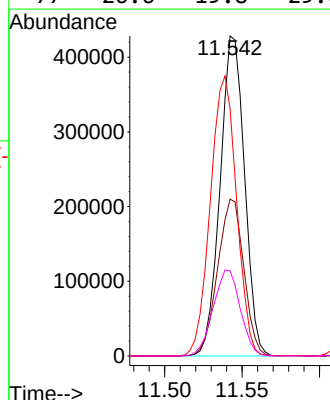
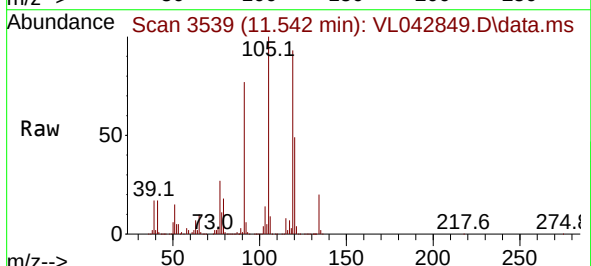
Ion Ratio Lower Upper

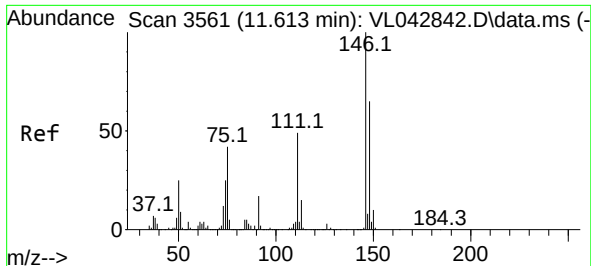
105 100

120 49.0 39.8 59.6

91 77.0 54.2 81.4

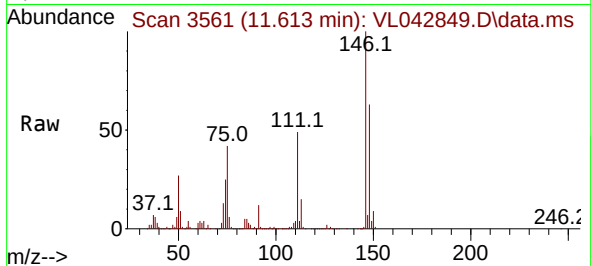
77 26.6 19.8 29.6





#75
1,3-Dichlorobenzene
Concen: 9.209 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

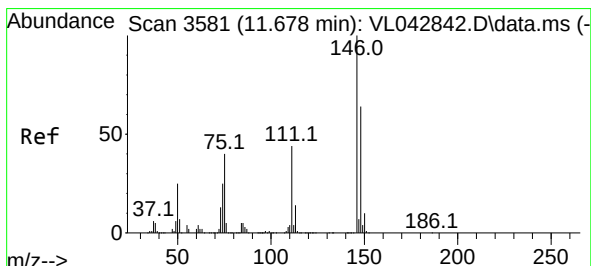
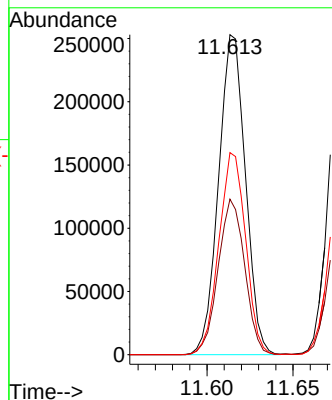
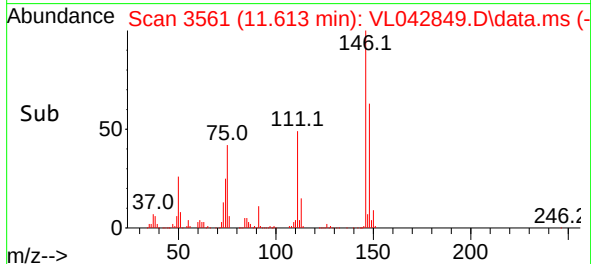
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325



Tgt Ion:146 Resp: 274870
Ion Ratio Lower Upper
146 100
111 48.2 23.9 71.7
148 63.0 31.4 94.0

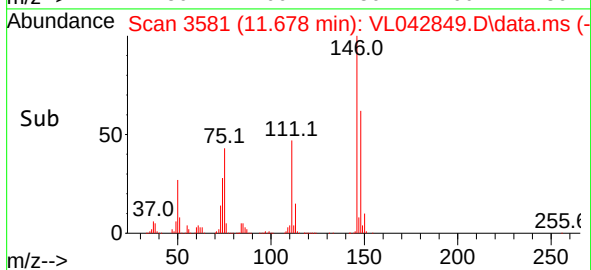
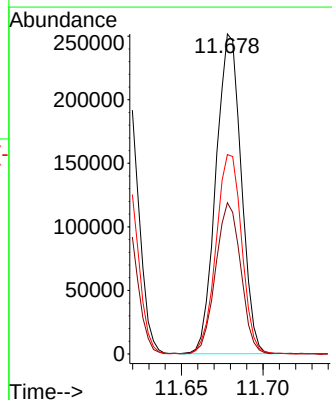
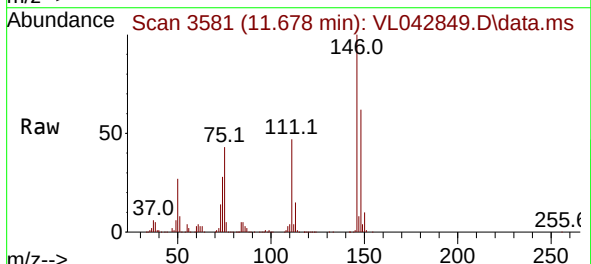
Manual Integrations
APPROVED

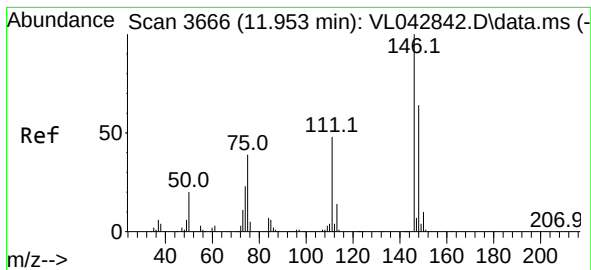
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#76
1,4-Dichlorobenzene
Concen: 8.976 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:146 Resp: 270976
Ion Ratio Lower Upper
146 100
111 47.2 22.7 68.1
148 63.6 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 8.736 ppbv

RT: 11.953 min Scan# 3666

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

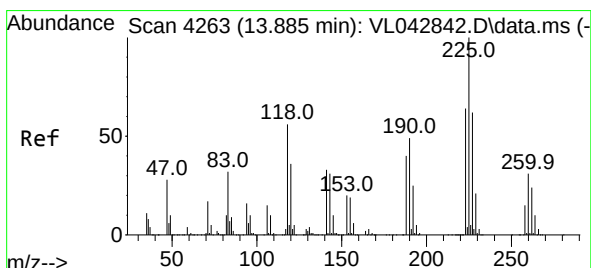
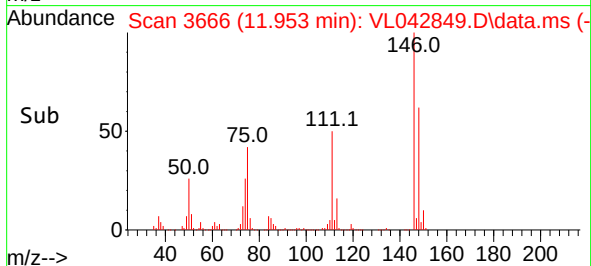
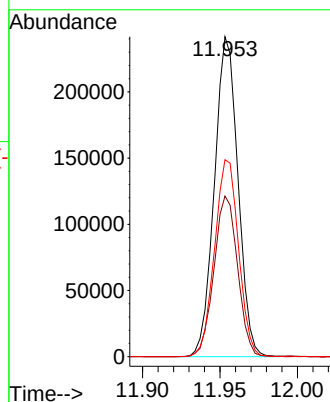
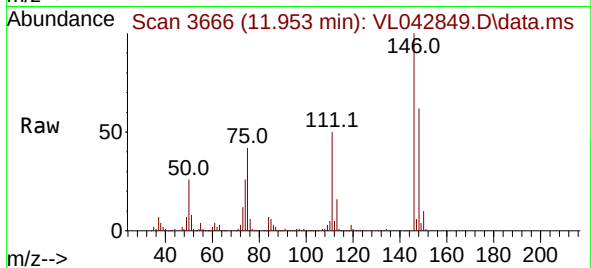
ICVVL081325

Tgt Ion:	146	Resp:	25534
Ion Ratio	Lower	Upper	
146	100		
111	50.5	24.6	74.0
148	62.7	32.0	96.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#78

Hexachloro-1,3-Butadiene

Concen: 7.778 ppbv

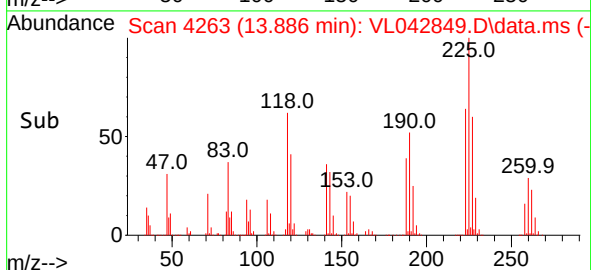
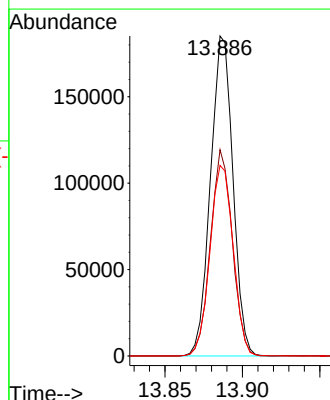
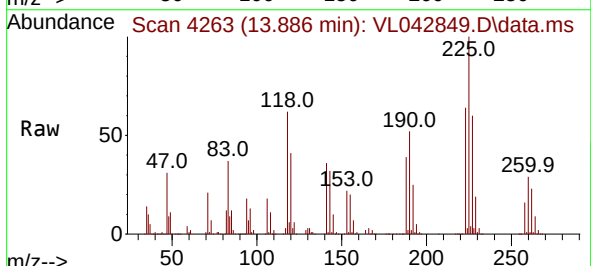
RT: 13.886 min Scan# 4263

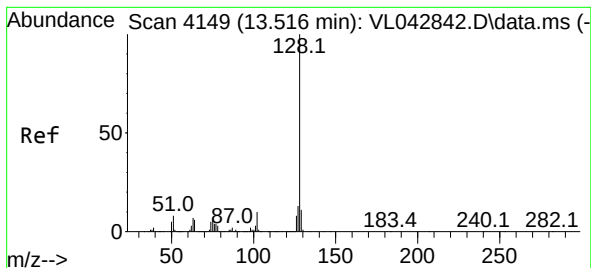
Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Tgt Ion:	225	Resp:	186318
Ion Ratio	Lower	Upper	
225	100		
223	62.9	51.4	77.2
227	61.6	51.9	77.9





#79

Naphthalene

Concen: 9.284 ppbv

RT: 13.520 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

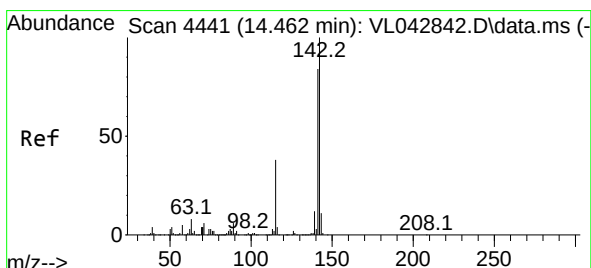
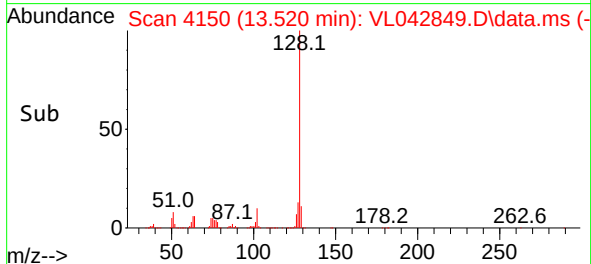
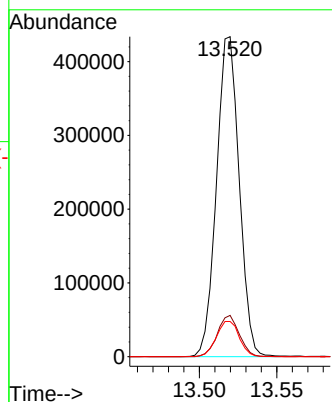
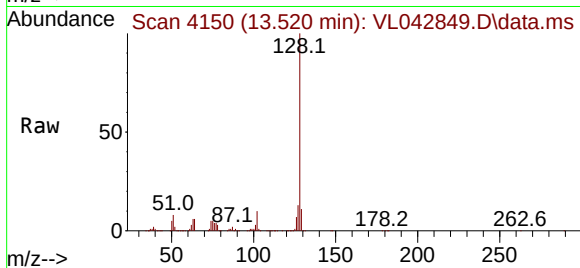
ICVVL081325

Tgt Ion:128 Resp: 441940
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.6 16.0
 129 11.0 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#80

Naphthalene,2-methyl-

Concen: 8.188 ppbv

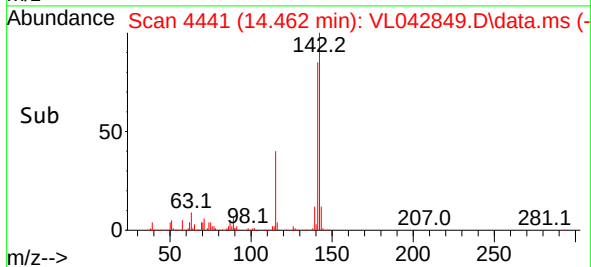
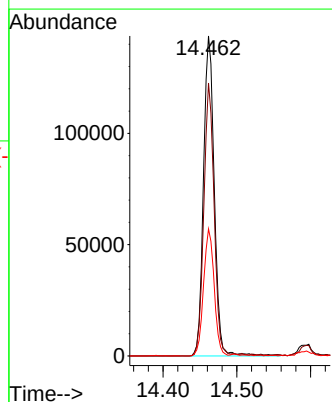
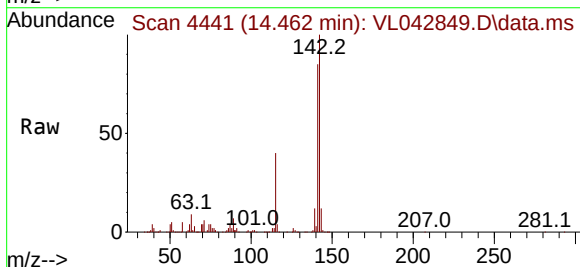
RT: 14.462 min Scan# 4441

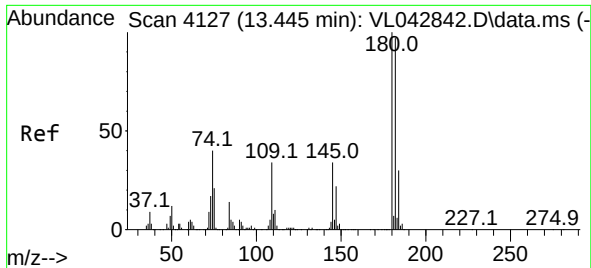
Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Tgt Ion:142 Resp: 145644
 Ion Ratio Lower Upper
 142 100
 141 81.9 67.0 100.6
 115 40.2 30.9 46.3





#81

1,2,4-Trichlorobenzene

Concen: 9.016 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042849.D

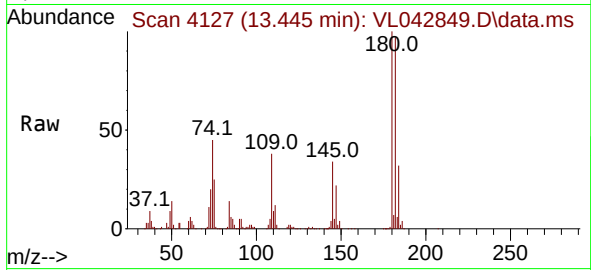
Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325



Tgt Ion:180 Resp: 21571

Ion Ratio Lower Upper

180 100

182 95.4 76.9 115.3

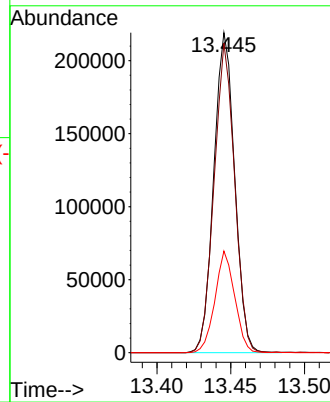
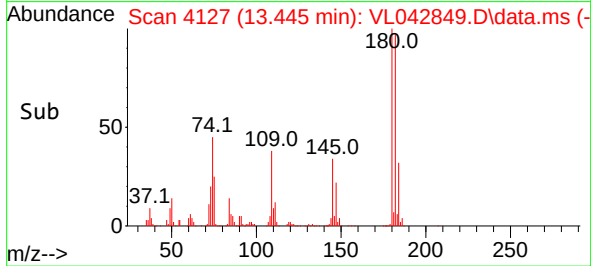
184 30.1 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



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 : 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	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	92	0.00
2 T	Dichlorodifluoromethane	10.000	9.105	8.9	91	0.00
3	Chlorodifluoromethane	10.000	9.327	6.7	92	0.00
4	Chloromethane	10.000	8.784	12.2	90	0.00
5 T	Vinyl Chloride	10.000	8.232	17.7	88	0.00
6 T	Bromomethane	10.000	8.801	12.0	93	0.00
7	Chloroethane	10.000	8.360	16.4	87	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.248	7.5	91	0.00
9 T	Propene	10.000	8.922	10.8	88	0.00
10 T	Heptane	10.000	8.990	10.1	90	0.00
11 T	Trichlorofluoromethane	10.000	8.707	12.9	91	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.824	11.8	89	0.00
13	Ethanol	10.000	7.678	23.2	97	0.00
14 T	Bromoethene	10.000	9.105	8.9	92	0.00
15 T	Acetone	10.000	7.389	26.1	95	0.00
16 T	1,3-Butadiene	10.000	8.285	17.1	91	0.00
17	tert-Butyl alcohol	10.000	8.663	13.4	91	0.00
18 T	1,1-Dichloroethene	10.000	9.087	9.1	90	0.00
19 T	Isopropyl Alcohol	10.000	8.146	18.5	91	0.00
20 T	Methylene Chloride	10.000	7.041	29.6	87	0.00
21 T	Allyl Chloride	10.000	8.956	10.4	91	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.904	11.0	89	0.00
23 T	Vinyl Acetate	10.000	8.891	11.1	89	0.00
24 T	1,1-Dichloroethane	10.000	8.903	11.0	92	0.00
25 T	Ethyl Acetate	10.000	9.240	7.6	93	0.00
26 T	Hexane	10.000	9.246	7.5	90	0.00
27 T	Carbon Disulfide	10.000	8.841	11.6	89	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.898	11.0	93	0.00
29 T	Chloroform	10.000	9.377	6.2	94	0.00
30 T	Cyclohexane	10.000	9.289	7.1	91	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.196	8.0	93	0.00
32 T	1,1,1-Trichloroethane	10.000	9.256	7.4	95	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	91	0.00
34 T	2-Butanone	10.000	9.135	8.7	92	0.00
35 T	Carbon Tetrachloride	10.000	9.478	5.2	93	0.00
36 T	Benzene	10.000	9.592	4.1	91	0.00
37 T	1,2-Dichloroethane	10.000	9.991	0.1	94	0.00
38 T	Trichloroethene	10.000	9.202	8.0	91	0.00
39 T	1,2-Dichloropropane	10.000	9.436	5.6	92	0.00
40 T	1,4-Dioxane	10.000	8.879	11.2	90	0.00
41 T	Tetrahydrofuran	10.000	9.372	6.3	90	0.00
42 T	Bromodichloromethane	10.000	9.678	3.2	92	0.00
43	Methyl Methacrylate	10.000	9.229	7.7	90	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.290	7.1	90	0.00
45 T	t-1,3-Dichloropropene	10.000	9.645	3.6	91	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.628	3.7	90	0.00
47 T	1,1,2-Trichloroethane	10.000	9.553	4.5	94	0.00
48 T	Dibromochloromethane	10.000	9.708	2.9	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	Amount	Calc.	%Dev	Area%	Dev(min)

49 T	Bromoform	10.000	9.446	5.5	86	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.430	5.7	88	0.00
51 T	2-Hexanone	10.000	9.791	2.1	91	0.00
52 T	Tetrachloroethene	10.000	8.544	14.6	86	0.00
53 T	Toluene	10.000	9.340	6.6	90	0.00
54 T	1,2-Dibromoethane	10.000	9.535	4.6	92	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.291	7.1	91	0.00
57 T	Chlorobenzene	10.000	9.378	6.2	91	0.00
58 T	Ethyl Benzene	10.000	9.414	5.9	91	0.00
59 T	m/p-Xylene	20.000	18.754	6.2	91	0.02
60 T	o-Xylene	10.000	9.239	7.6	91	0.00
61 T	Styrene	10.000	9.377	6.2	90	0.00
62	Isopropylbenzene	10.000	9.206	7.9	91	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.826	11.7	90	0.00
64	n-propylbenzene	10.000	9.145	8.6	90	0.00
65	tert-Butylbenzene	10.000	8.946	10.5	90	0.00
66 T	Benzyl Chloride	10.000	9.031	9.7	81	0.00
67	sec-Butylbenzene	10.000	9.088	9.1	92	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.086	-0.9	90	0.00
69	p-Isopropyltoluene	10.000	8.810	11.9	90	0.00
70	n-Butylbenzene	10.000	9.062	9.4	91	0.00
71	2-Chlorotoluene	10.000	9.214	7.9	92	0.00
72 T	4-Ethyltoluene	10.000	9.338	6.6	91	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.108	8.9	91	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.943	10.6	91	0.00
75 T	1,3-Dichlorobenzene	10.000	9.209	7.9	89	0.00
76 T	1,4-Dichlorobenzene	10.000	8.976	10.2	88	0.00
77 T	1,2-Dichlorobenzene	10.000	8.736	12.6	88	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.778	22.2	88	0.00
79 T	Naphthalene	10.000	9.284	7.2	91	0.00
80 T	Naphthalene,2-methyl-	10.000	8.188	18.1	82	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.016	9.8	88	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>ALLI03</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2727</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>07/31/2025 08:37</u>
Lab File ID:	<u>VL042788.D</u>	Init. Calib. Date(s):	<u>07/23/2025 07/23/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>08:58 13:00</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorodifluoromethane	0.592	0.627		5.91	30
Dichlorodifluoromethane	1.322	1.259		-4.77	30
Ethanol	0.083	0.052		-37.35	30
Chloromethane	0.535	0.500		-6.54	30
Vinyl Chloride	0.528	0.464		-12.12	30
Ethyl Acetate	3.056	3.271		7.03	30
Bromomethane	0.204	0.201		-1.47	30
Chloroethane	0.204	0.187		-8.33	30
Tetrahydrofuran	0.360	0.413		14.72	30
Trichlorofluoromethane	1.363	1.244		-8.73	30
1,1,2-Trichlorotrifluoroethane	1.036	0.994		-4.05	30
Dichlorotetrafluoroethane	1.087	1.041		-4.23	30
Bromoethene	0.367	0.353		-3.82	30
Propene	0.626	0.681		8.79	30
tert-Butyl alcohol	1.245	1.150		-7.63	30
Heptane	1.688	1.848		9.48	30
Isopropyl Alcohol	0.734	0.677		-7.77	30
1,1-Dichloroethene	0.468	0.430		-8.12	30
Acetone	1.381	1.094		-20.78	30
Carbon Disulfide	1.148	1.189		3.57	30
Methyl tert-Butyl Ether	0.633	0.632		-0.16	30
Methylene Chloride	0.435	0.373		-14.25	30
trans-1,2-Dichloroethene	0.503	0.484		-3.78	30
Vinyl Acetate	1.674	2.050		22.46	30
1,1-Dichloroethane	1.033	0.981		-5.03	30
Cyclohexane	1.137	1.182		3.96	30
2-Butanone	0.708	0.760		7.34	30
Carbon Tetrachloride	0.743	0.793		6.73	30
cis-1,2-Dichloroethene	1.378	1.412		2.47	30
Chloroform	2.072	2.165		4.49	30
1,1,1-Trichloroethane	2.158	2.126		-1.48	30
2,2,4-Trimethylpentane	1.545	1.721		11.39	30
Benzene	0.948	1.000		5.49	30
1,2-Dichloroethane	0.571	0.605		5.95	30
Trichloroethene	0.455	0.455		0	30
1,2-Dichloropropane	0.350	0.367		4.86	30
Bromodichloromethane	0.744	0.827		11.16	30
4-Methyl-2-Pentanone	0.912	1.013		11.07	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG No.: Q2727

Instrument ID: MSVOA_L

Calibration Date/Time: 07/31/2025 08:37

Lab File ID: VL042788.D

Init. Calib. Date(s): 07/23/2025 07/23/2025

Heated Purge: (Y/N) N

Init. Calib. Time(s): 08:58 13:00

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Toluene	1.018	1.124		10.41	30
t-1,3-Dichloropropene	0.378	0.430		13.76	30
cis-1,3-Dichloropropene	0.479	0.555		15.87	30
1,1,2-Trichloroethane	0.373	0.396		6.17	30
2-Hexanone	0.690	0.812		17.68	30
Dibromochloromethane	0.592	0.672		13.51	30
1,2-Dibromoethane	0.527	0.584		10.82	30
Tetrachloroethene	0.393	0.366		-6.87	30
Chlorobenzene	0.968	1.012		4.55	30
Ethyl Benzene	1.579	1.780		12.73	30
m/p-Xylene	1.262	1.455		15.29	30
o-Xylene	1.261	1.439		14.12	30
Styrene	0.531	0.623		17.33	30
Bromoform	0.516	0.596		15.5	30
Isopropylbenzene	1.860	2.071		11.34	30
1,1,2,2-Tetrachloroethane	0.810	0.843		4.07	30
2-Chlorotoluene	1.426	1.598		12.06	30
1,3,5-Trimethylbenzene	1.240	1.462		17.9	30
1,2,4-Trimethylbenzene	1.353	1.627		20.25	30
1,3-Dichlorobenzene	0.948	1.048		10.55	30
1,4-Dichlorobenzene	0.928	1.040		12.07	30
1,2-Dichlorobenzene	0.932	1.008		8.15	30
1,2,4-Trichlorobenzene	0.635	0.910		43.31	30
Hexachloro-1,3-Butadiene	0.844	0.816		-3.32	30
1,3-Butadiene	0.589	0.555		-5.77	30
Naphthalene	0.958	1.624		69.52	30
4-Ethyltoluene	1.506	1.769		17.46	30
1-Bromo-4-Fluorobenzene	0.792	0.815		2.9	30
Hexane	1.341	1.394		3.95	30
Allyl Chloride	0.851	0.845		-0.7	30
Benzyl Chloride	0.136	0.188		38.24	30
1,4-Dioxane	163.065	163.857		0.49	30
Methyl Methacrylate	0.337	0.385		14.24	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042788.D
 Acq On : 31 Jul 2025 08:37
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/01/2025
 Supervised By : Mahesh Dadoda 08/01/2025

Quant Time: Aug 01 01:12:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 01 11:10:30 2025

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	139439	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	391811	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.891	117	345903	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 282020 10.295 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	175602	9.525	ppbv	99
3) Chlorodifluoromethane	1.479	51	245813	10.235	ppbv	98
4) Chloromethane	1.534	50	69667	9.341	ppbv	96
5) Vinyl Chloride	1.583	62	64707	8.781	ppbv	94
6) Bromomethane	1.670	94	28024	9.837	ppbv	96
7) Chloroethane	1.706	64	26081	9.160	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	145116	9.571	ppbv	98
9) Propene	1.486	41	94980	10.882	ppbv	100
10) Heptane	4.991	43	257717	10.950	ppbv	96
11) Trichlorofluoromethane	1.881	101	173476	9.128	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	138636	9.600	ppbv	97
13) Ethanol	1.725	45	7183	10.150	ppbv	95
14) Bromoethene	1.784	108	49283	9.639	ppbv	98
15) Acetone	1.839	43	152576	7.924	ppbv	100
16) 1,3-Butadiene	1.612	39	77405	9.425	ppbv	99
17) tert-Butyl alcohol	2.043	59	160407	9.237	ppbv	99
18) 1,1-Dichloroethene	2.039	96	60001	9.195	ppbv	92
19) Isopropyl Alcohol	1.891	45	94435	9.229	ppbv	95
20) Methylene Chloride	2.065	84	51973	8.566	ppbv	95
21) Allyl Chloride	2.101	41	117837	9.930	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	67488	9.614	ppbv	95
23) Vinyl Acetate	2.467	43	285868	12.247	ppbv	99
24) 1,1-Dichloroethane	2.415	63	136815	9.496	ppbv	100
25) Ethyl Acetate	2.842	43	456109	10.702	ppbv	100
26) Hexane	2.832	57	194417	10.399	ppbv	98
27) Carbon Disulfide	2.156	76	165760	10.356	ppbv	96
28) Methyl tert-Butyl Ether	2.447	73	88166	9.982	ppbv	98
29) Chloroform	2.855	83	301928	10.451	ppbv	95
30) Cyclohexane	3.865	84	164864	10.398	ppbv	96
31) cis-1,2-Dichloroethene	2.726	61	196928	10.250	ppbv	98
32) 1,1,1-Trichloroethane	3.376	97	296432	9.850	ppbv	100
34) 2-Butanone	2.561	43	297678	10.726	ppbv	98
35) Carbon Tetrachloride	3.771	117	310581	10.672	ppbv	98
36) Benzene	3.664	78	391679	10.548	ppbv	99
37) 1,2-Dichloroethane	3.227	62	236929	10.592	ppbv	99
38) Trichloroethene	4.561	130	178226	9.991	ppbv	97
39) 1,2-Dichloropropane	4.324	63	143986	10.505	ppbv	95
40) 1,4-Dioxane	4.596	88	64201	10.049	ppbv #	94
41) Tetrahydrofuran	3.059	42	161670	11.447	ppbv	97
42) Bromodichloromethane	4.499	83	324091	11.125	ppbv	100
43) Methyl Methacrylate	4.891	69	150704	11.418	ppbv	98
44) 2,2,4-Trimethylpentane	4.651	57	674333	11.142	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	168632	11.393	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042788.D
 Acq On : 31 Jul 2025 08:37
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

Quant Time: Aug 01 01:12:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 01 11:10:30 2025

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	217364	11.589	ppbv	94
47) 1,1,2-Trichloroethane	6.597	97	155145	10.618	ppbv	97
48) Dibromochloromethane	7.399	129	263177	11.346	ppbv	98
49) Bromoform	9.493	173	233626	11.551	ppbv	98
50) 4-Methyl-2-Pentanone	5.765	43	396864	11.101	ppbv	100
51) 2-Hexanone	7.448	43	318210	11.778	ppbv #	99
52) Tetrachloroethene	8.234	164	143437	9.319	ppbv	98
53) Toluene	6.946	91	440370	11.044	ppbv	99
54) 1,2-Dibromoethane	7.665	107	228691	11.078	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.937	131	196819	10.944	ppbv	99
57) Chlorobenzene	8.933	112	349998	10.455	ppbv #	95
58) Ethyl Benzene	9.364	91	615736	11.272	ppbv	99
59) m/p-Xylene	9.561	91	1006369m	23.053	ppbv	
60) o-Xylene	9.972	91	497901	11.414	ppbv	99
61) Styrene	9.882	104	215469	11.742	ppbv	99
62) Isopropylbenzene	10.549	105	716277	11.132	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.972	83	291626	10.413	ppbv	99
64) n-propylbenzene	10.998	120	193965	11.563	ppbv	98
65) tert-Butylbenzene	11.539	119	641028	11.215	ppbv	99
66) Benzyl Chloride	11.623	91	65004	13.854	ppbv	98
67) sec-Butylbenzene	11.775	105	905933	11.144	ppbv	100
69) p-Isopropyltoluene	11.931	119	763427	11.517	ppbv	99
70) n-Butylbenzene	12.287	91	779301	12.171	ppbv	99
71) 2-Chlorotoluene	10.908	91	552725	11.203	ppbv	100
72) 4-Ethyltoluene	11.134	105	611893	11.745	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	505734	11.791	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	562952	12.030	ppbv	93
75) 1,3-Dichlorobenzene	11.613	146	362463	11.049	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	359833	11.209	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	348624	10.812	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	282288	9.673	ppbv	98
79) Naphthalene	13.520	128	561584	11.014	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	249243	9.837	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	314832	10.987	ppbv	99

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

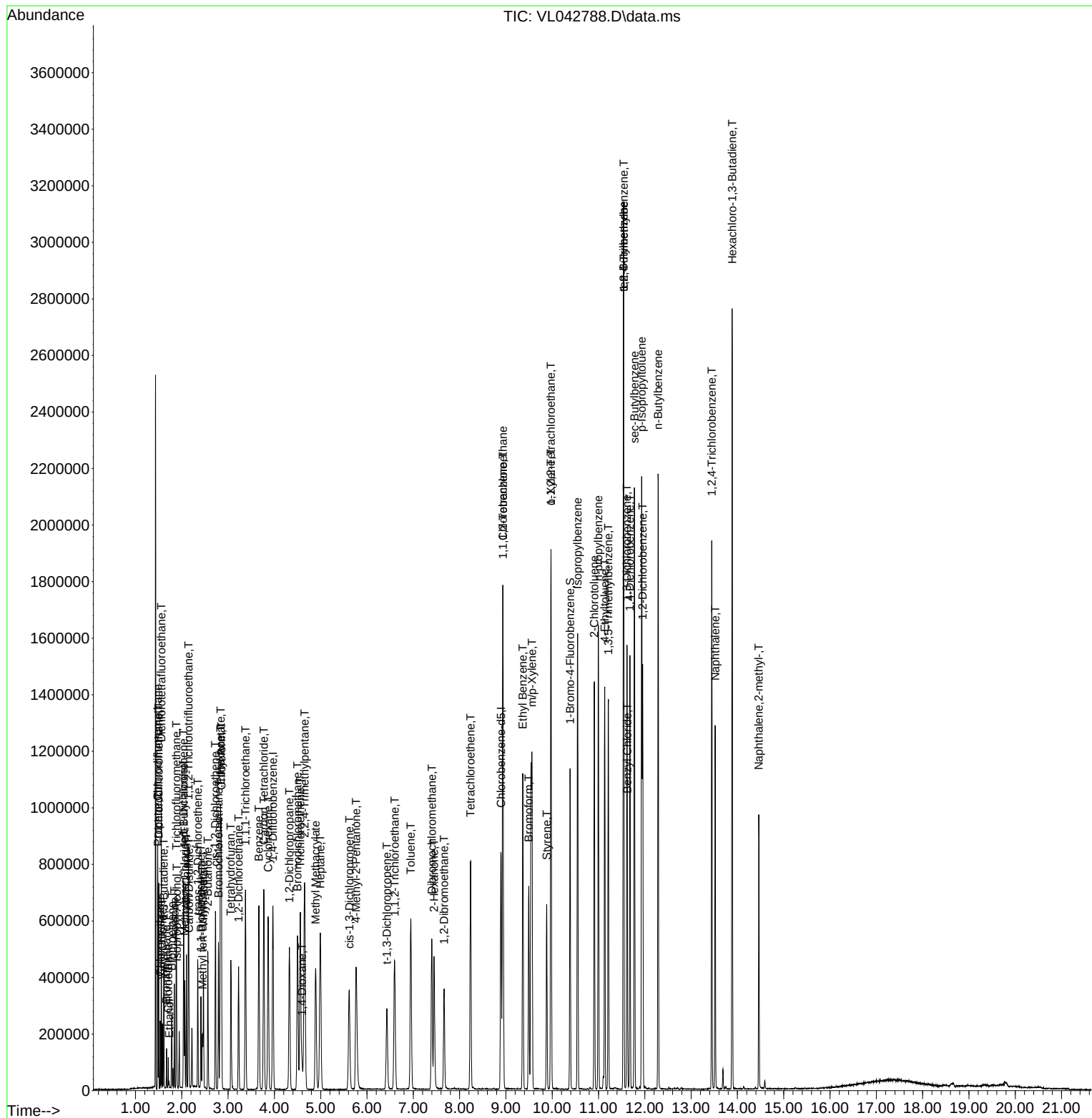
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Data File : VL042788.D
Acq On : 31 Jul 2025 08:37
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

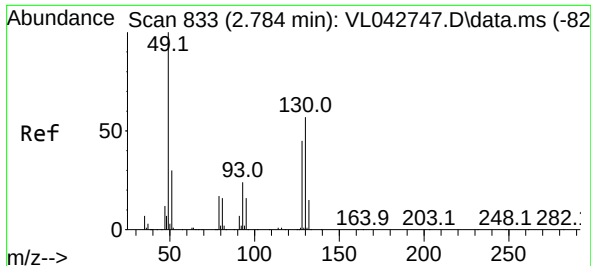
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

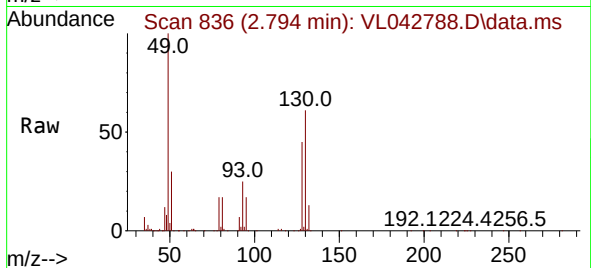
Quant Time: Aug 01 01:12:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

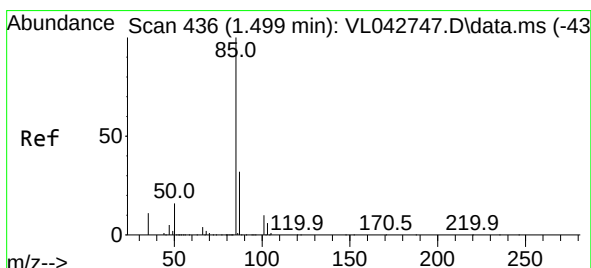
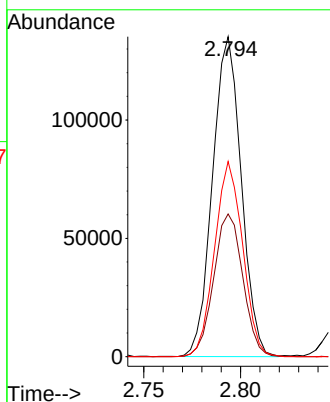
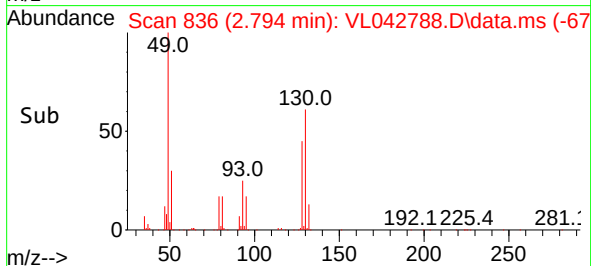
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 49 Resp: 139439
Ion Ratio Lower Upper
49 100
128 45.4 23.6 71.0
130 59.7 30.3 90.8

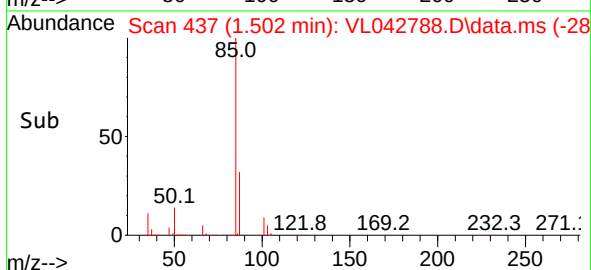
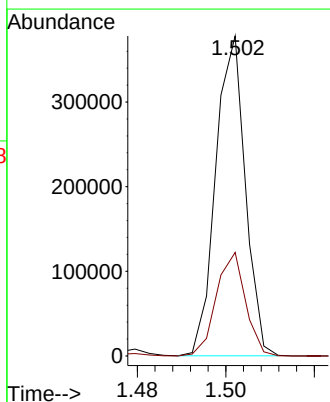
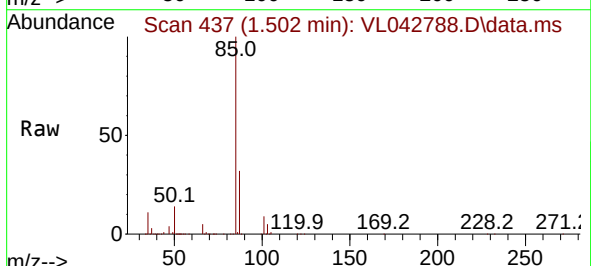
Manual Integrations
APPROVED

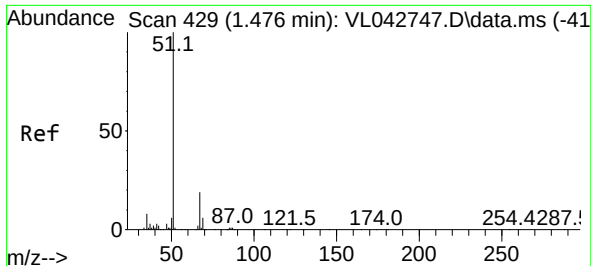
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#2
Dichlorodifluoromethane
Concen: 9.525 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 85 Resp: 175602
Ion Ratio Lower Upper
85 100
87 32.3 25.4 38.2





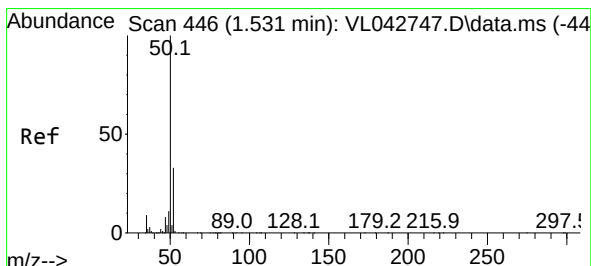
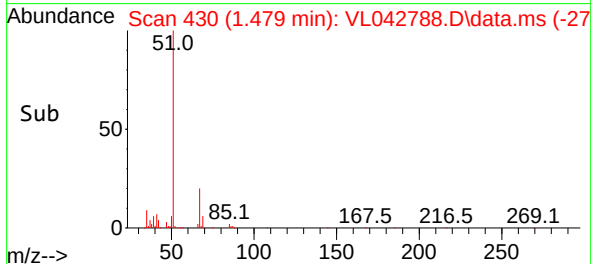
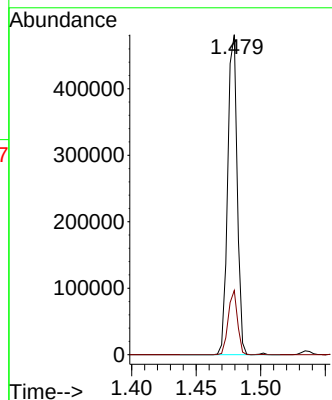
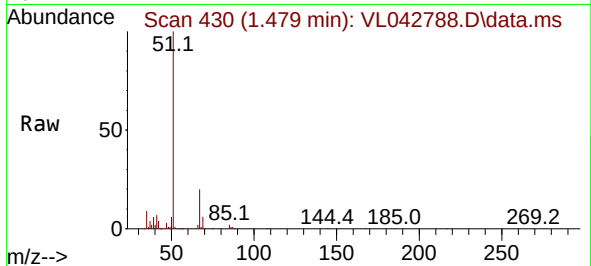
#3
Chlorodifluoromethane
Concen: 10.235 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 51 Resp: 24581
Ion Ratio Lower Upper
51 100
67 19.5 15.0 22.6

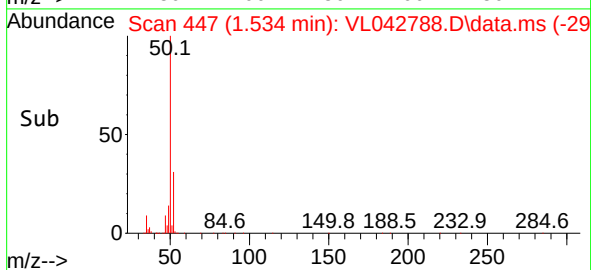
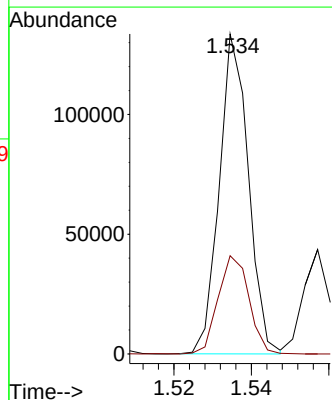
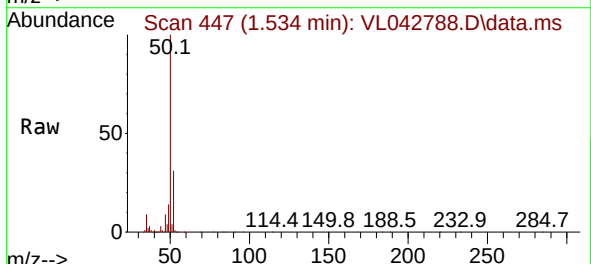
Manual Integrations
APPROVED

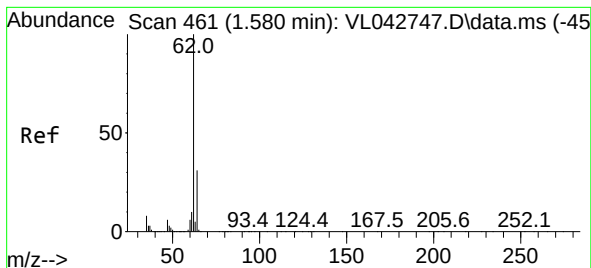
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#4
Chloromethane
Concen: 9.341 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 50 Resp: 69667
Ion Ratio Lower Upper
50 100
52 30.8 26.6 40.0





#5

Vinyl Chloride

Concen: 8.781 ppbv

RT: 1.583 min Scan# 461

Delta R.T. 0.003 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 62 Resp: 6470

Ion Ratio Lower Upper

62 100

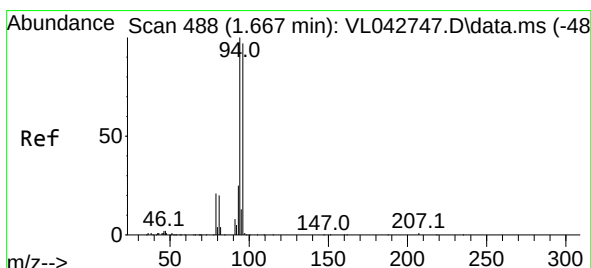
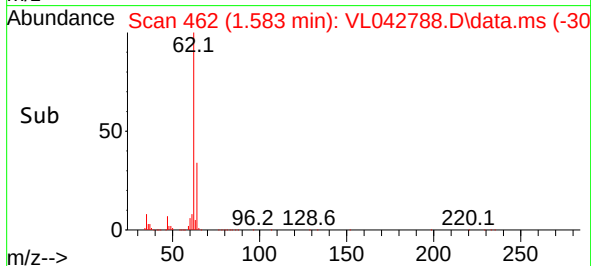
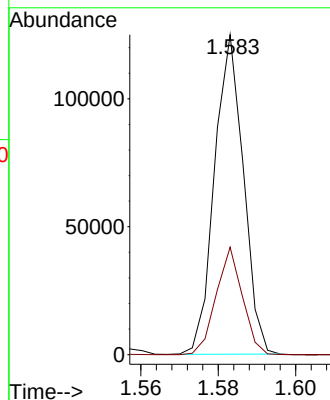
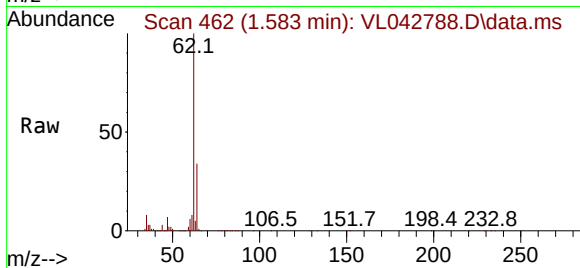
64 33.7 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#6

Bromomethane

Concen: 9.837 ppbv

RT: 1.670 min Scan# 489

Delta R.T. 0.003 min

Lab File: VL042788.D

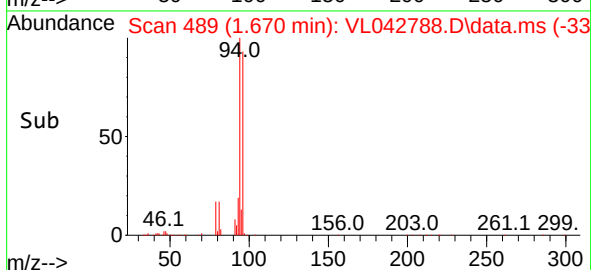
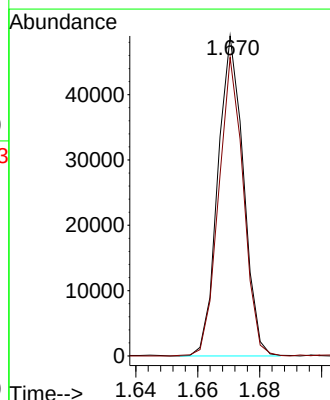
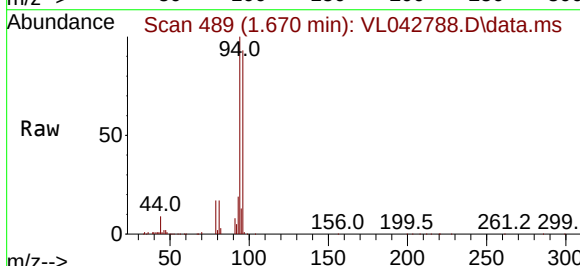
Acq: 31 Jul 2025 08:37

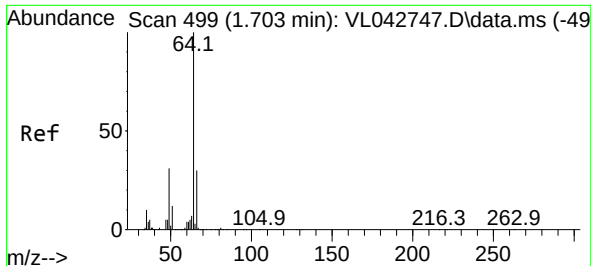
Tgt Ion: 94 Resp: 28024

Ion Ratio Lower Upper

94 100

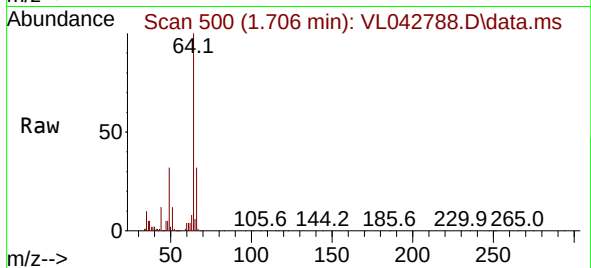
96 93.2 77.6 116.4





#7
Chloroethane
Concen: 9.160 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

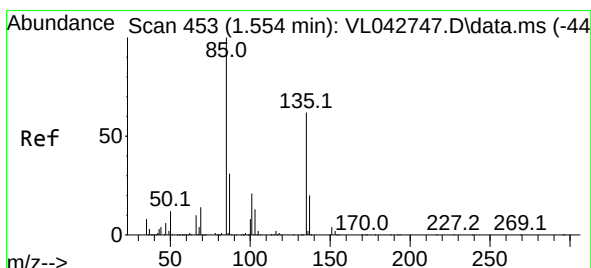
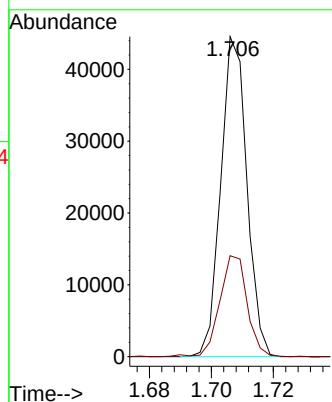
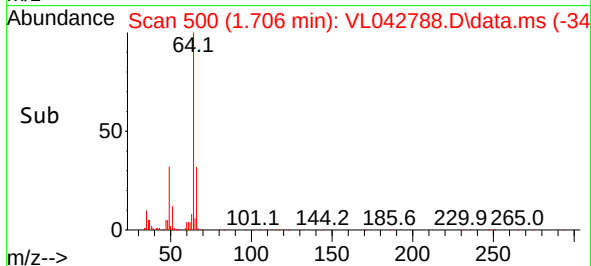
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



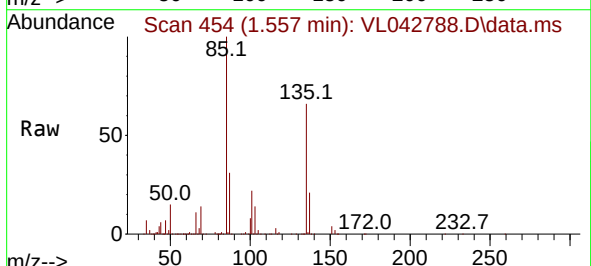
Tgt Ion: 64 Resp: 2608
Ion Ratio Lower Upper
64 100
66 31.5 24.1 36.1

Manual Integrations
APPROVED

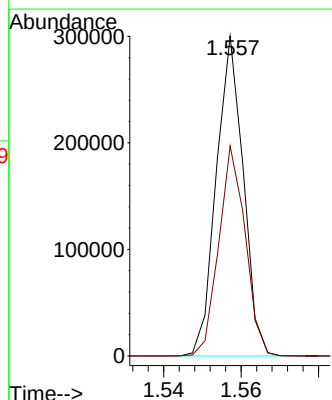
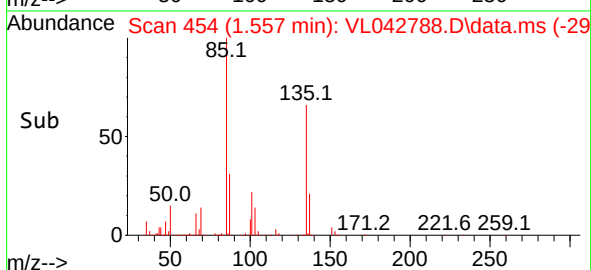
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

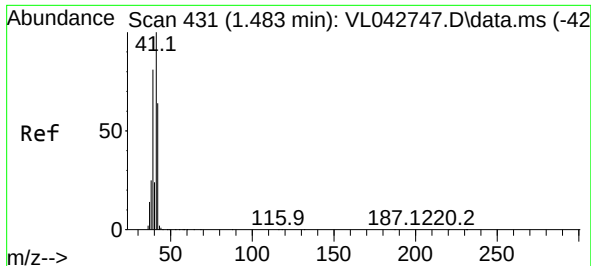


#8
Dichlorotetrafluoroethane
Concen: 9.571 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



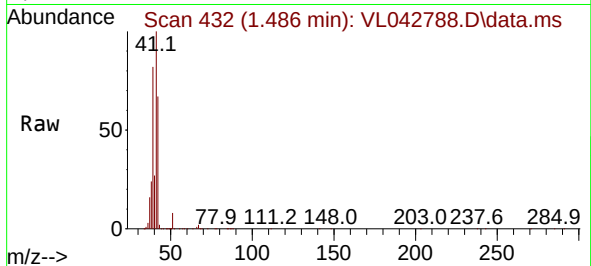
Tgt Ion: 85 Resp: 145116
Ion Ratio Lower Upper
85 100
135 64.7 50.6 76.0





#9
 Propene
 Concen: 10.882 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

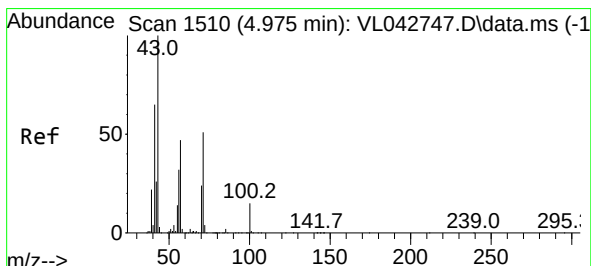
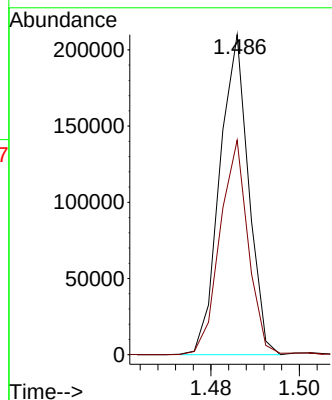
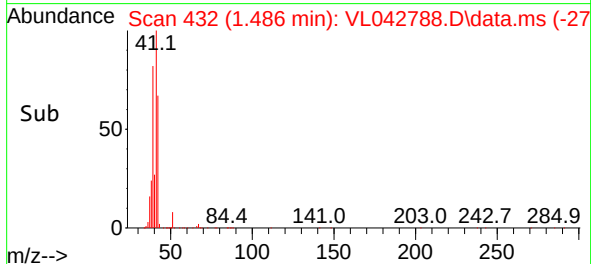
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



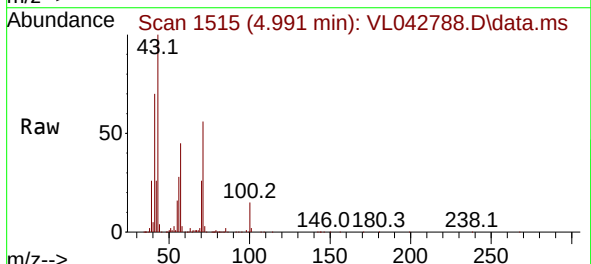
Tgt Ion: 41 Resp: 94980
 Ion Ratio Lower Upper
 41 100
 42 66.3 53.2 79.8

Manual Integrations
 APPROVED

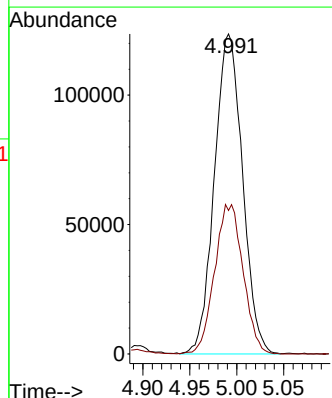
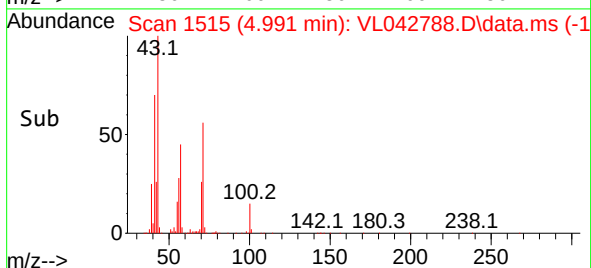
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

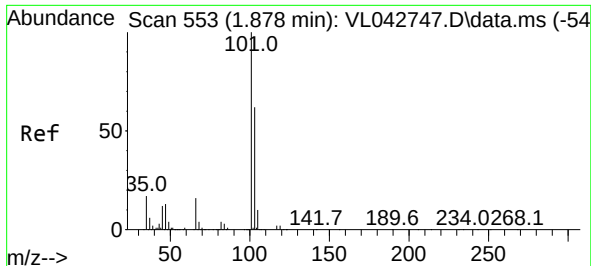


#10
 Heptane
 Concen: 10.950 ppbv
 RT: 4.991 min Scan# 1515
 Delta R.T. 0.016 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37



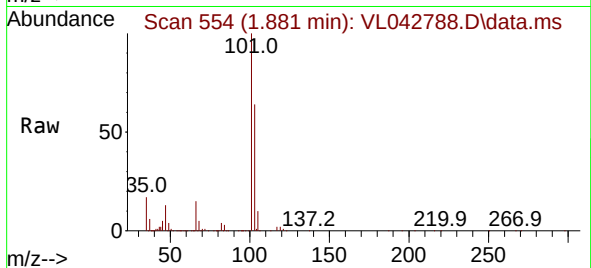
Tgt Ion: 43 Resp: 257717
 Ion Ratio Lower Upper
 43 100
 57 47.3 39.9 59.9





#11
Trichlorofluoromethane
Concen: 9.128 ppbv
RT: 1.881 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

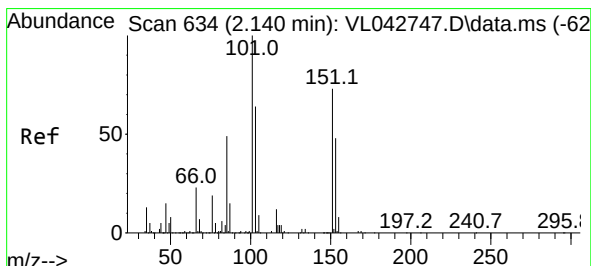
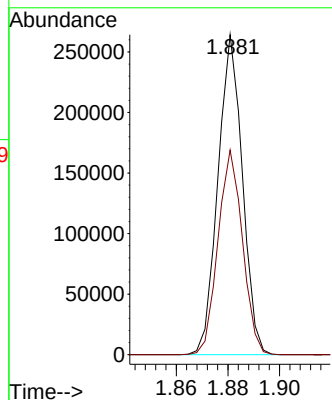
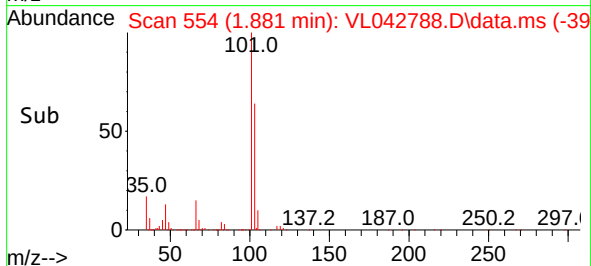
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



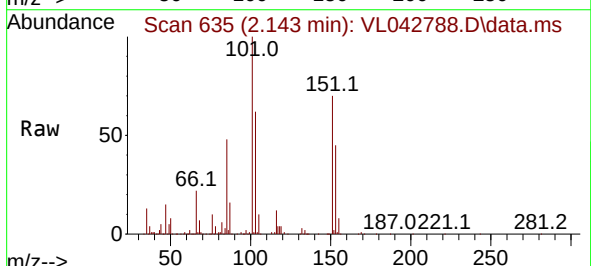
Tgt Ion:101 Resp: 173470
Ion Ratio Lower Upper
101 100
103 63.9 49.6 74.4

Manual Integrations
APPROVED

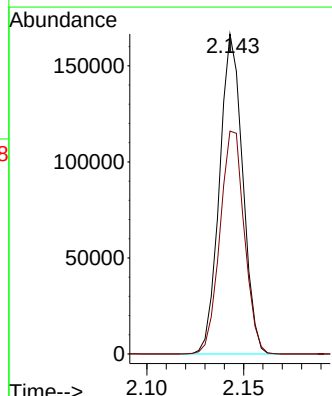
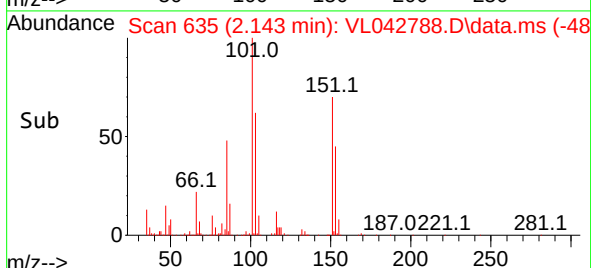
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

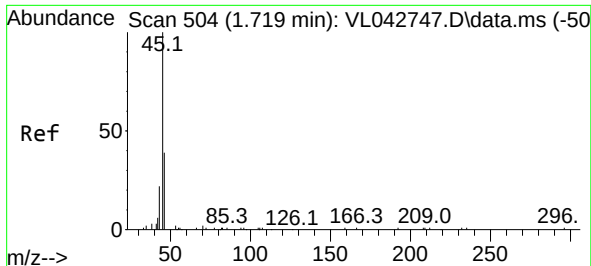


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.600 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



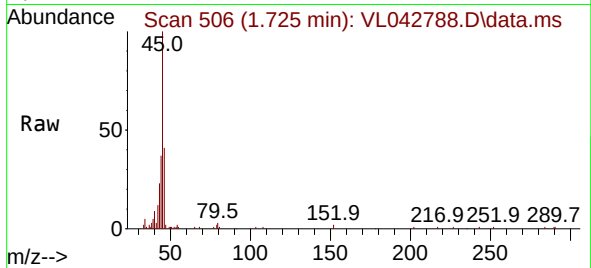
Tgt Ion:101 Resp: 138636
Ion Ratio Lower Upper
101 100
151 73.2 60.5 90.7





#13
Ethanol
Concen: 10.150 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.007 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

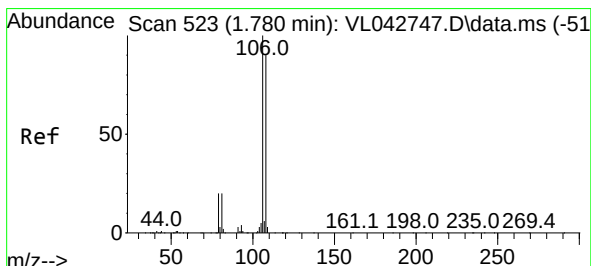
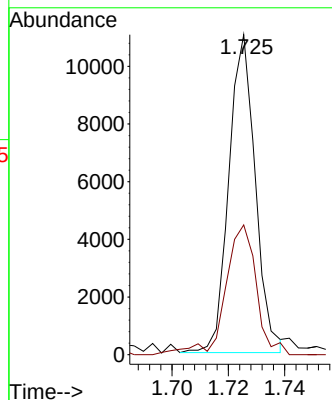
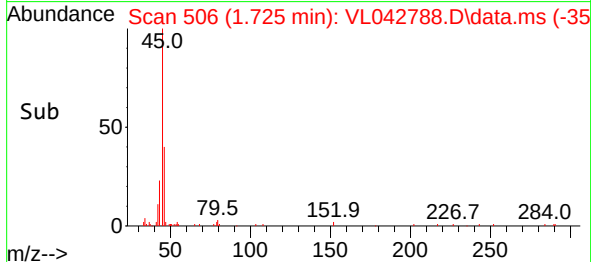
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



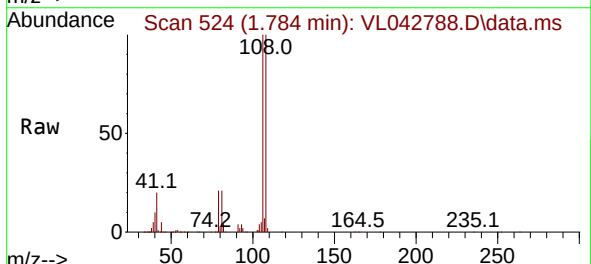
Tgt Ion: 45 Resp: 7183
Ion Ratio Lower Upper
45 100
46 47.6 17.8 71.4

Manual Integrations
APPROVED

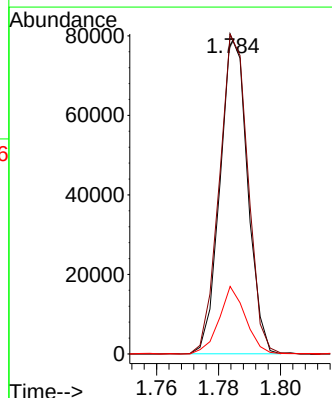
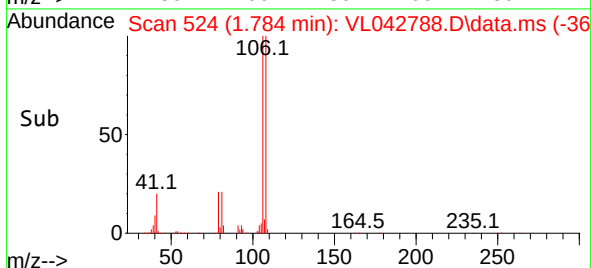
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

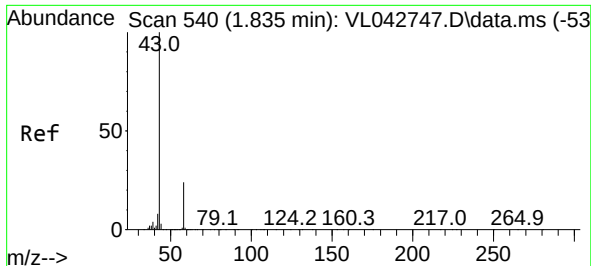


#14
Bromoethene
Concen: 9.639 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



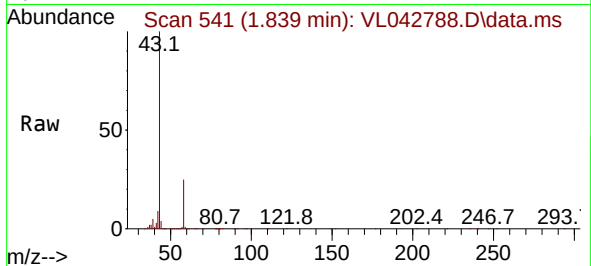
Tgt Ion:108 Resp: 49283
Ion Ratio Lower Upper
108 100
106 104.5 84.7 127.1
79 20.7 17.4 26.2





#15
Acetone
Concen: 7.924 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

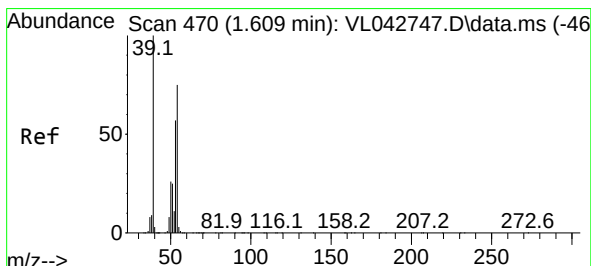
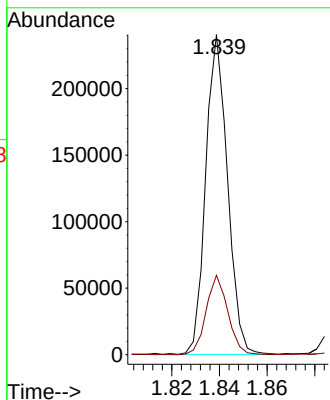
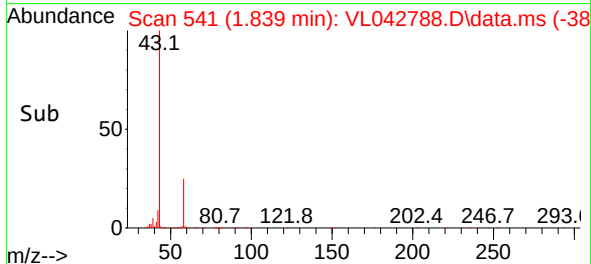
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



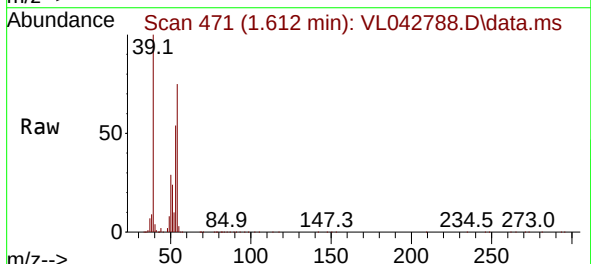
Tgt Ion: 43 Resp: 152570
Ion Ratio Lower Upper
43 100
58 24.9 19.8 29.8

Manual Integrations
APPROVED

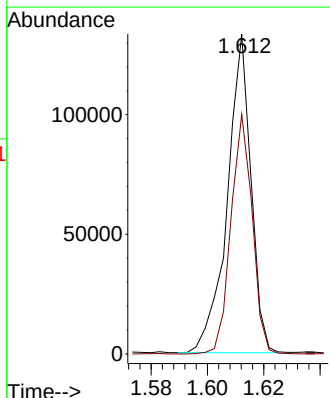
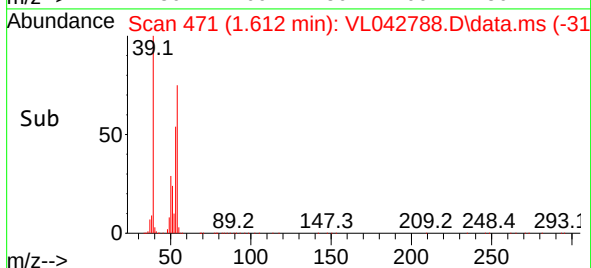
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

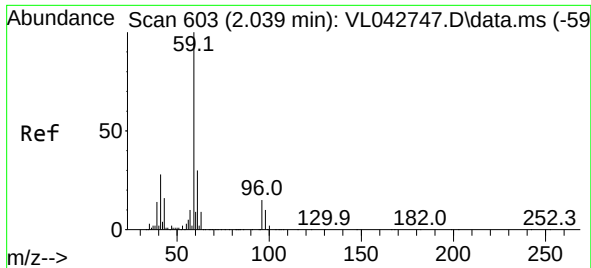


#16
1,3-Butadiene
Concen: 9.425 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



Tgt Ion: 39 Resp: 77405
Ion Ratio Lower Upper
39 100
54 67.6 54.5 81.7





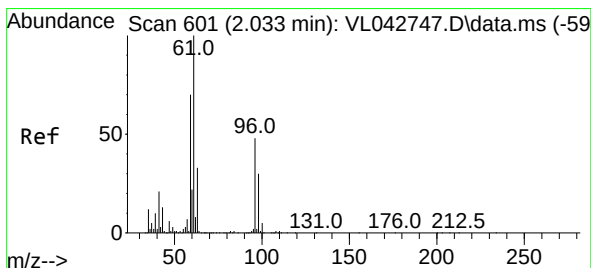
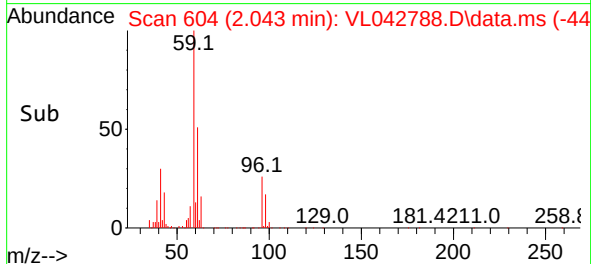
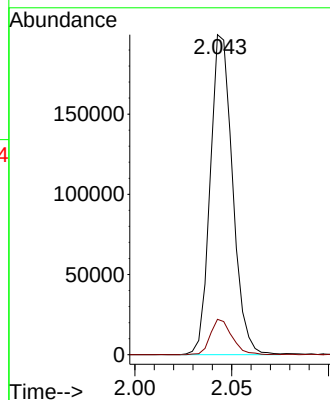
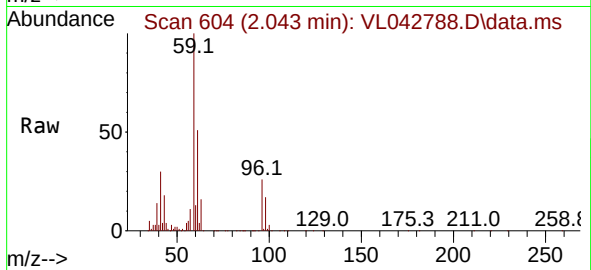
#17
tert-Butyl alcohol
Concen: 9.237 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 16040
Ion Ratio Lower Upper
59 100
57 10.7 8.3 12.5

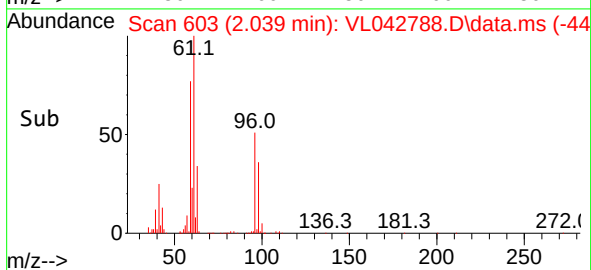
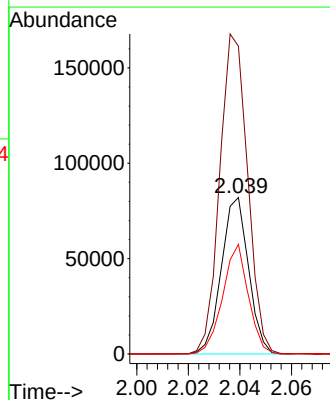
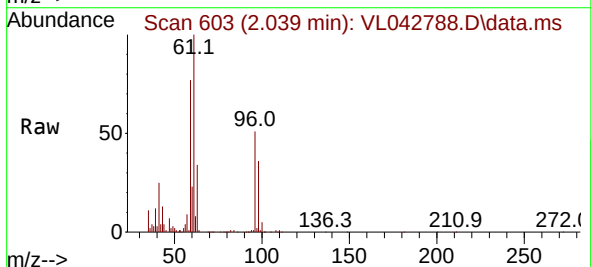
Manual Integrations
APPROVED

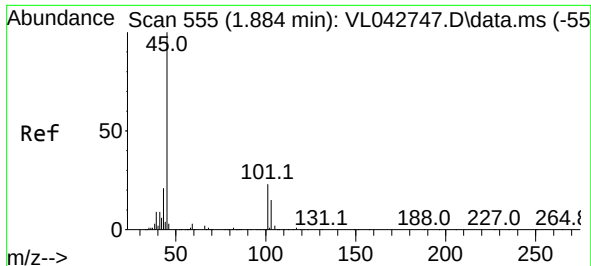
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#18
1,1-Dichloroethene
Concen: 9.195 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 96 Resp: 60001
Ion Ratio Lower Upper
96 100
61 196.6 165.8 248.6
98 70.1 49.9 74.9





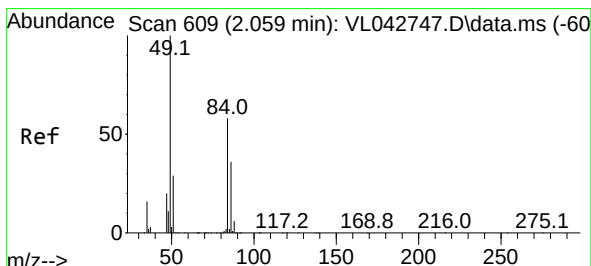
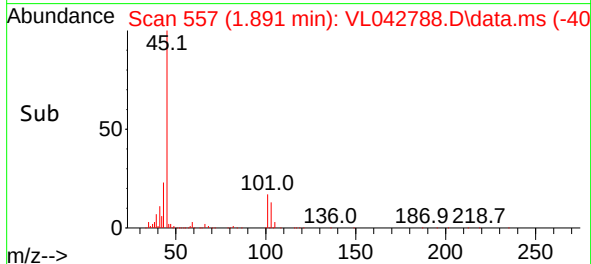
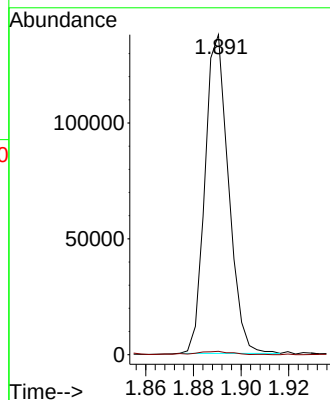
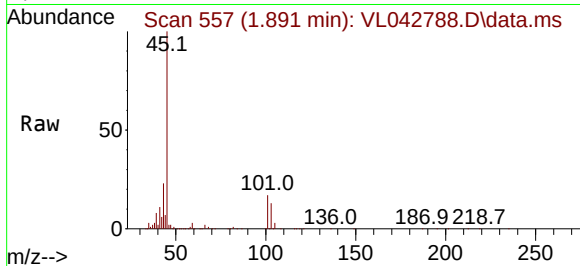
#19
Isopropyl Alcohol
Concen: 9.229 ppbv
RT: 1.891 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 94435
Ion Ratio Lower Upper
45 100
58 40.2 30.0 45.0

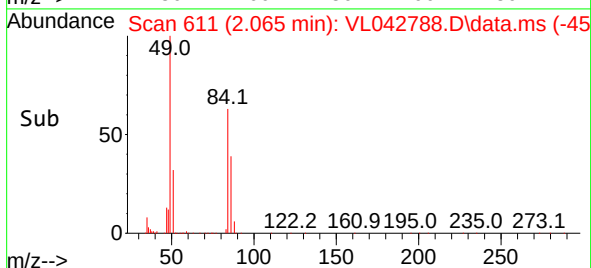
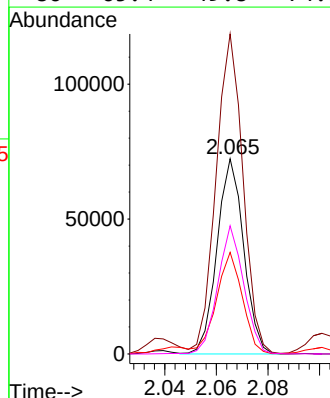
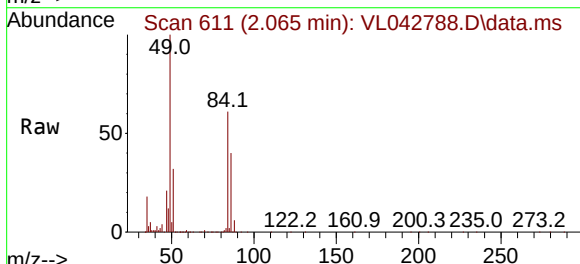
Manual Integrations
APPROVED

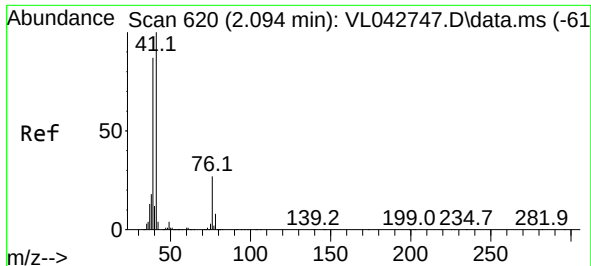
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#20
Methylene Chloride
Concen: 8.566 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

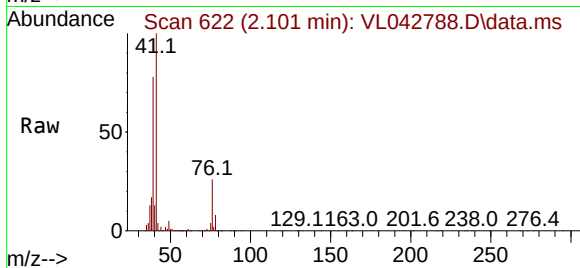
Tgt Ion: 84 Resp: 51973
Ion Ratio Lower Upper
84 100
49 163.4 138.6 208.0
51 51.9 40.6 61.0
86 65.4 49.8 74.8





#21
 Allyl Chloride
 Concen: 9.930 ppbv
 RT: 2.101 min Scan# 611
 Delta R.T. 0.007 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

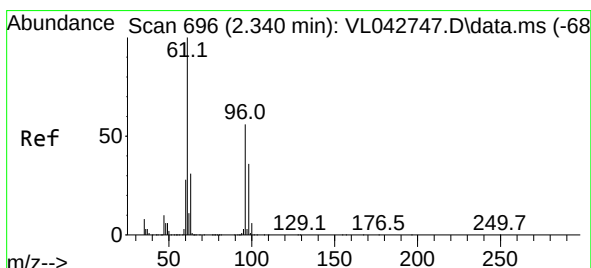
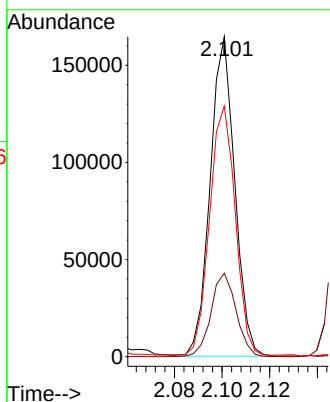
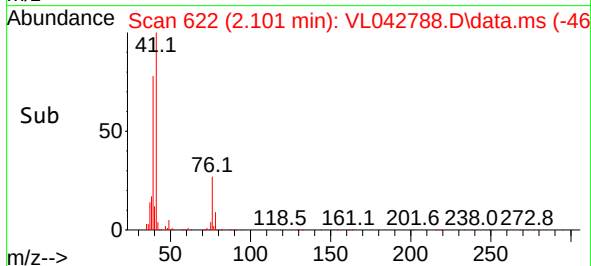
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



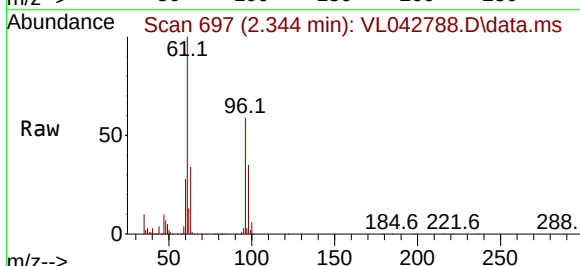
Tgt Ion: 41 Resp: 11783
 Ion Ratio Lower Upper
 41 100
 76 26.7 21.1 31.7
 39 82.2 68.3 102.5

Manual Integrations
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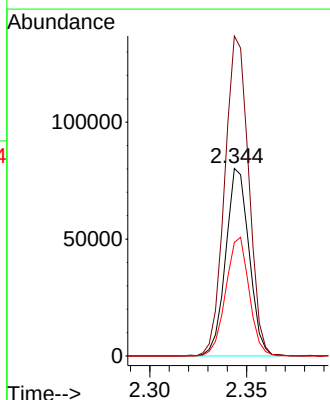
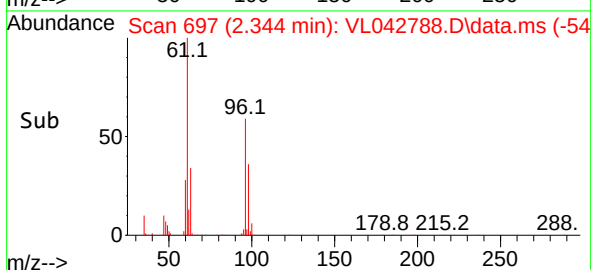
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

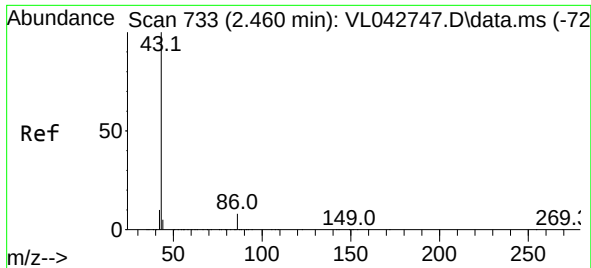


#22
 trans-1,2-Dichloroethene
 Concen: 9.614 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.003 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37



Tgt Ion: 96 Resp: 67488
 Ion Ratio Lower Upper
 96 100
 61 170.6 142.3 213.5
 98 60.5 50.6 76.0





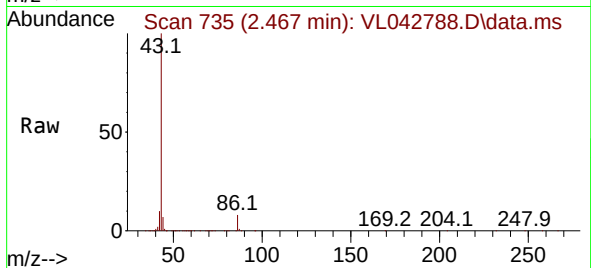
#23
 Vinyl Acetate
 Concen: 12.247 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. 0.006 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

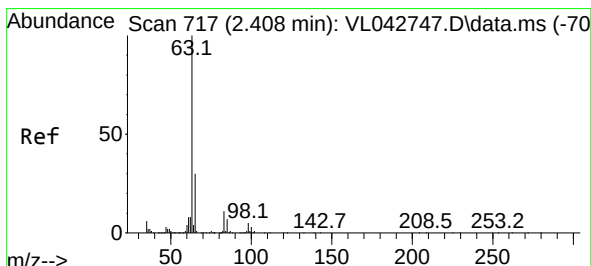
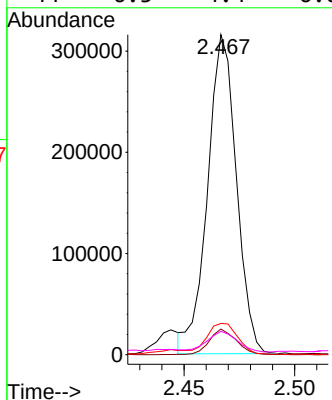
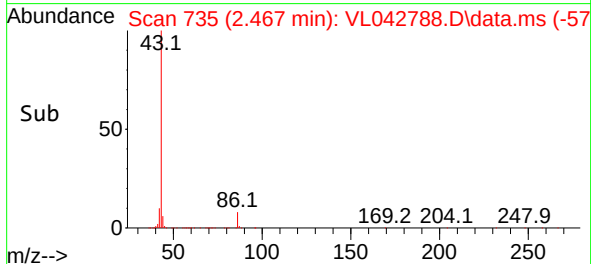


Tgt Ion: 43 Resp: 28586
 Ion Ratio Lower Upper
 43 100
 86 8.0 6.1 9.1
 42 9.6 7.8 11.8
 44 6.3 4.4 6.6

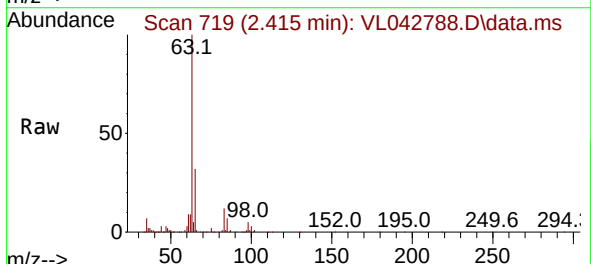
Manual Integrations

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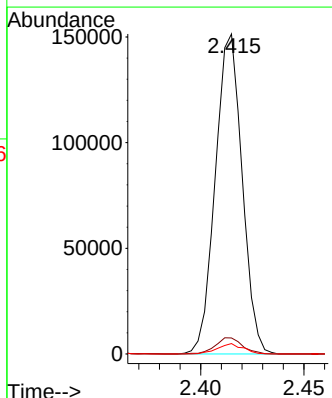
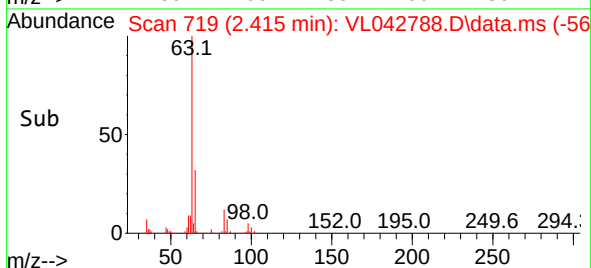
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

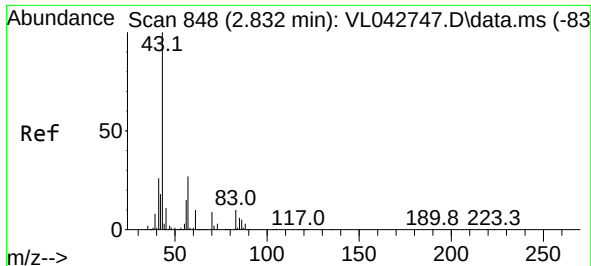


#24
 1,1-Dichloroethane
 Concen: 9.496 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.006 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37



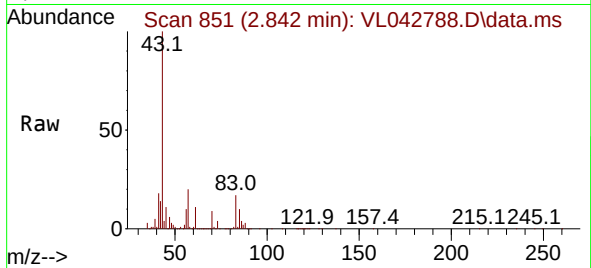
Tgt Ion: 63 Resp: 136815
 Ion Ratio Lower Upper
 63 100
 98 5.0 2.5 7.4
 100 3.3 1.6 4.8





#25
Ethyl Acetate
Concen: 10.702 ppbv
RT: 2.842 min Scan# 848
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

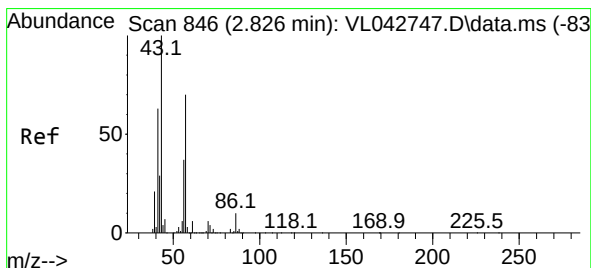
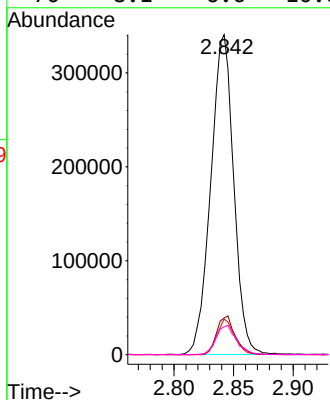
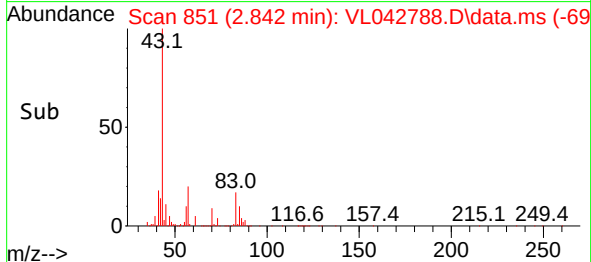
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 43 Resp: 456109
Ion Ratio Lower Upper
43 100
45 9.8 7.8 11.6
61 8.7 6.7 10.1
70 8.1 6.6 10.0

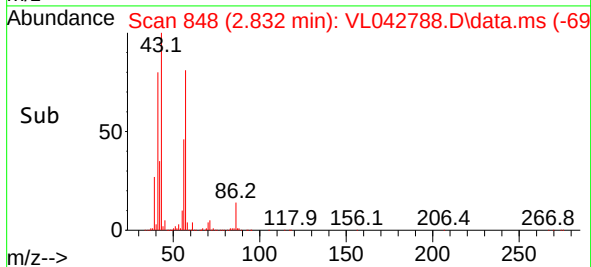
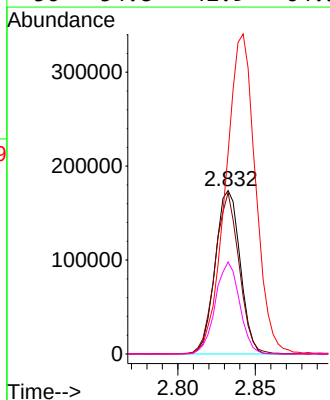
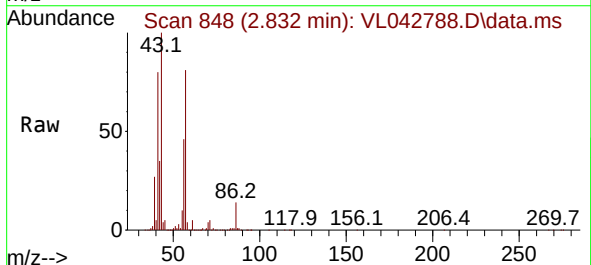
Manual Integrations
APPROVED

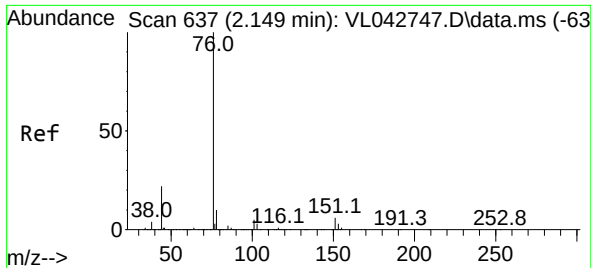
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#26
Hexane
Concen: 10.399 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

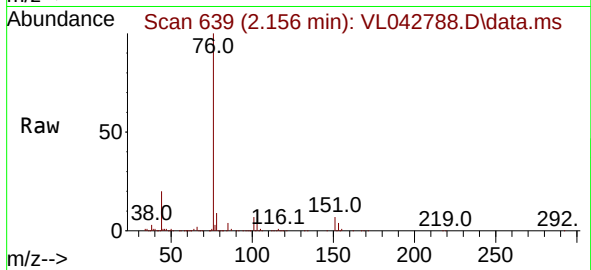
Tgt Ion: 57 Resp: 194417
Ion Ratio Lower Upper
57 100
41 95.9 75.4 113.2
43 235.7 185.0 277.6
56 54.8 42.9 64.3





#27
Carbon Disulfide
Concen: 10.356 ppbv
RT: 2.156 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

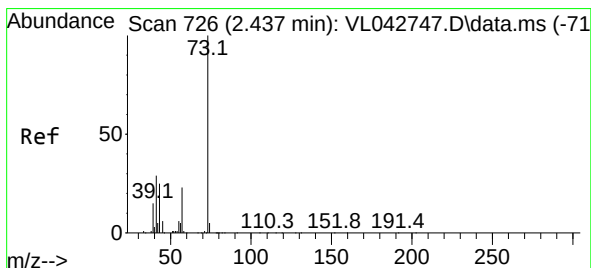
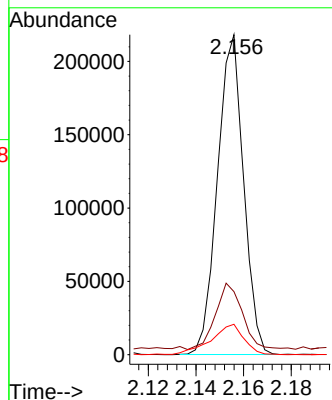
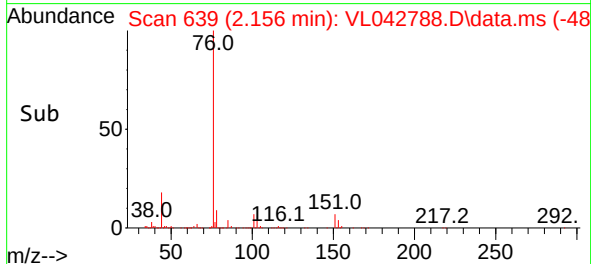
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 76 Resp: 165760
Ion Ratio Lower Upper
76 100
44 21.5 19.3 28.9
78 12.1 9.9 14.9

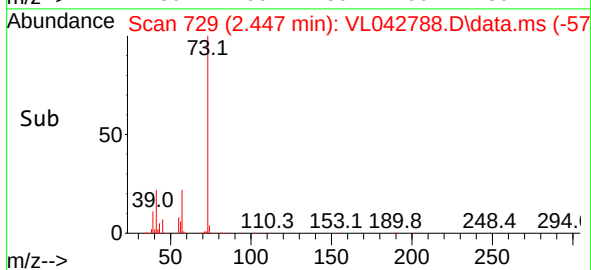
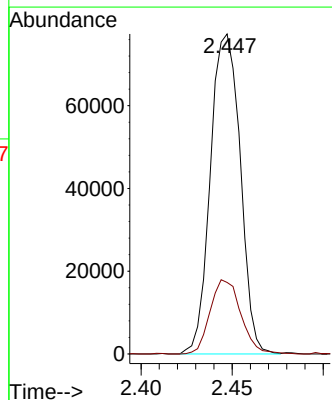
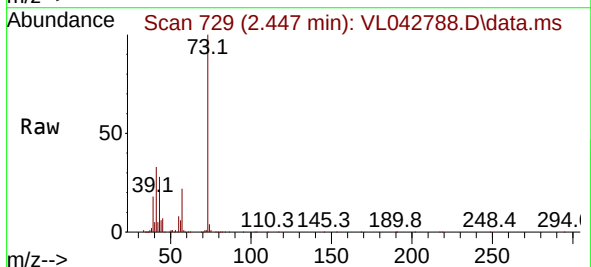
Manual Integrations
APPROVED

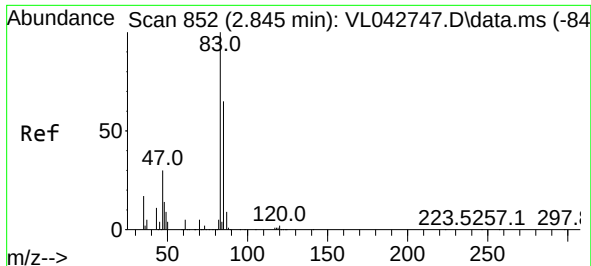
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#28
Methyl tert-Butyl Ether
Concen: 9.982 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 73 Resp: 88166
Ion Ratio Lower Upper
73 100
57 23.9 19.8 29.8





#29

Chloroform

Concen: 10.451 ppbv

RT: 2.855 min Scan# 80

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 83 Resp: 301928

Ion Ratio Lower Upper

83 100

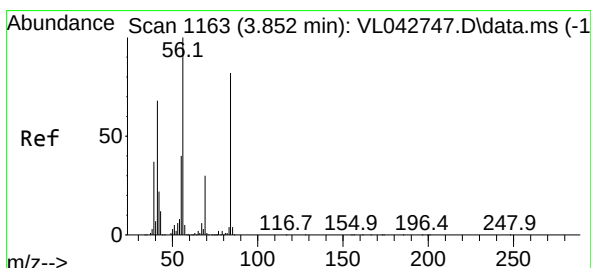
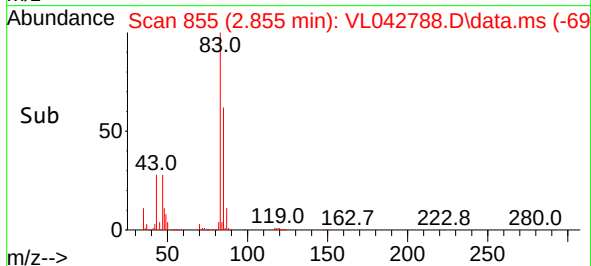
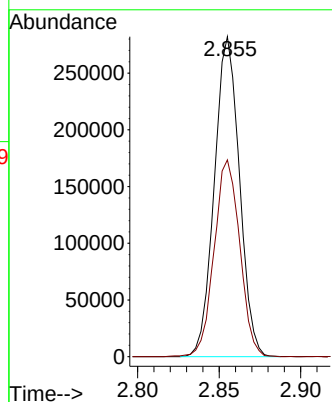
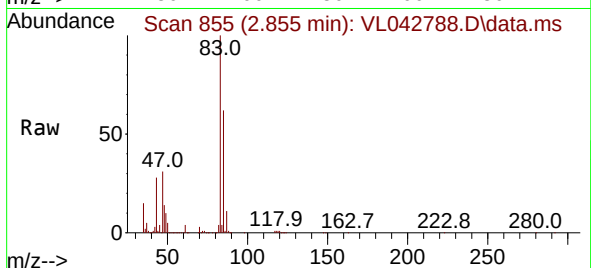
85 61.5 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#30

Cyclohexane

Concen: 10.398 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.013 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

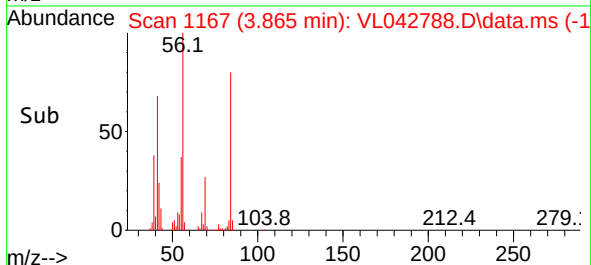
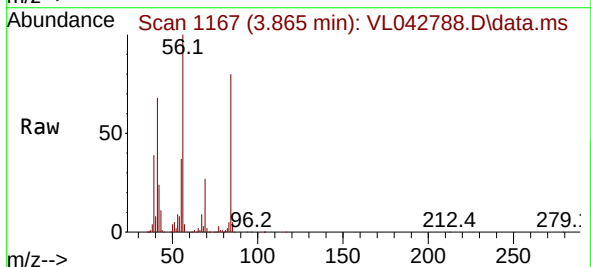
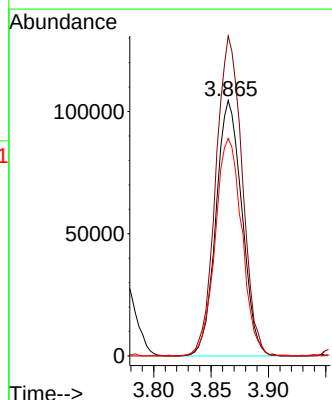
Tgt Ion: 84 Resp: 164864

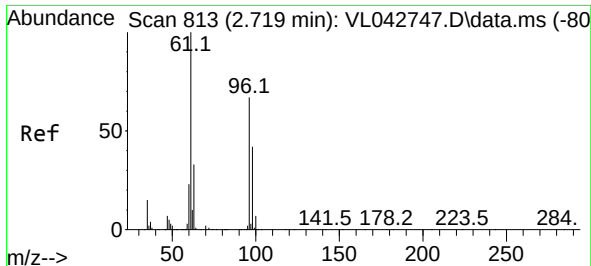
Ion Ratio Lower Upper

84 100

56 126.6 97.5 146.3

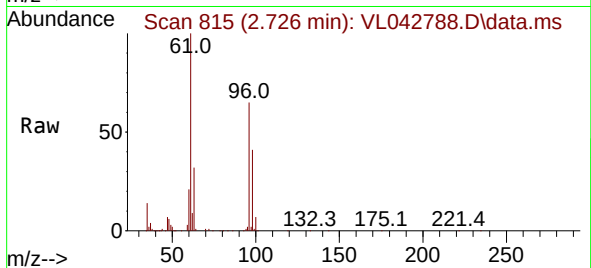
41 87.2 67.2 100.8





#31
 cis-1,2-Dichloroethene
 Concen: 10.250 ppbv
 RT: 2.726 min Scan# 813
 Delta R.T. 0.006 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

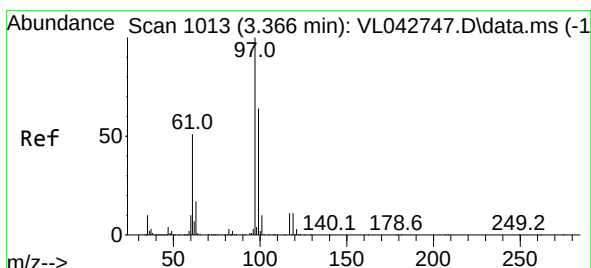
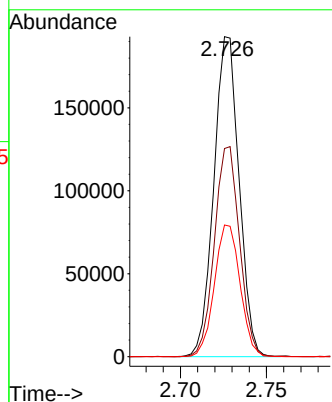
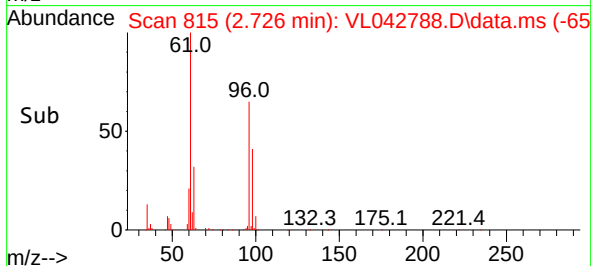
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 61 Resp: 196928
 Ion Ratio Lower Upper
 61 100
 96 64.9 53.5 80.3
 98 41.2 33.6 50.4

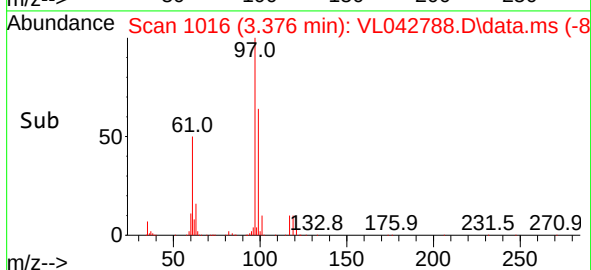
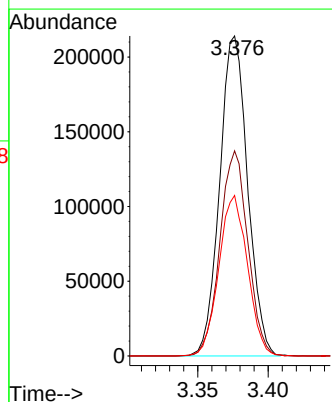
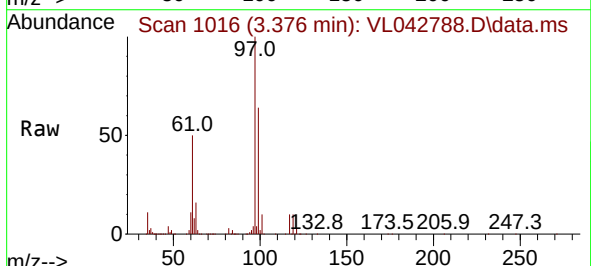
Manual Integrations
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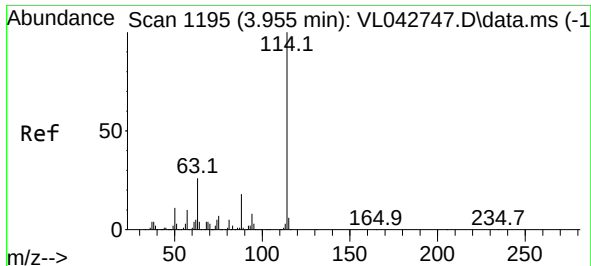
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#32
 1,1,1-Trichloroethane
 Concen: 9.850 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.010 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

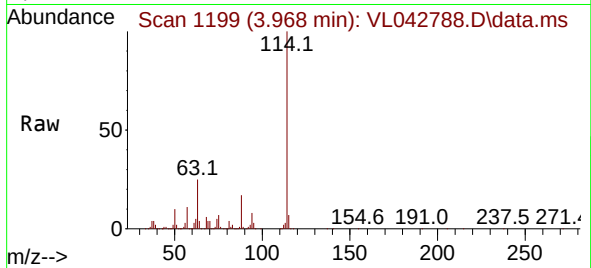
Tgt Ion: 97 Resp: 296432
 Ion Ratio Lower Upper
 97 100
 99 63.9 51.0 76.6
 61 51.5 40.9 61.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

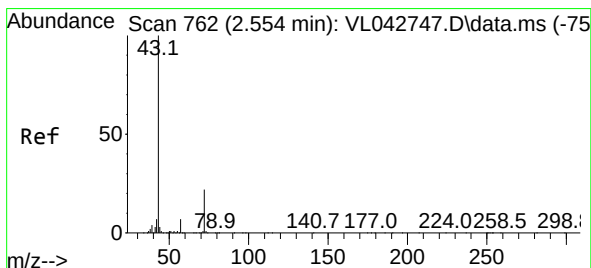
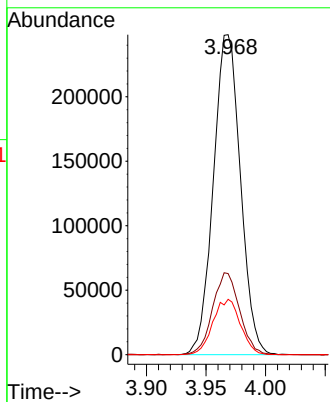
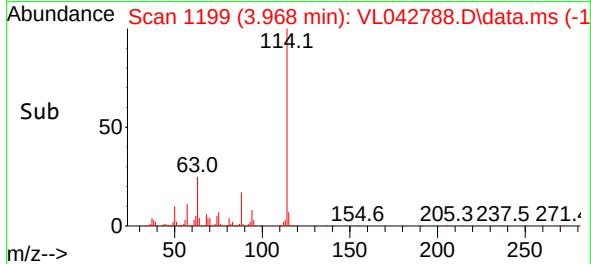
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:114 Resp: 391811
Ion Ratio Lower Upper
114 100
63 25.6 20.5 30.7
88 17.6 14.0 21.0

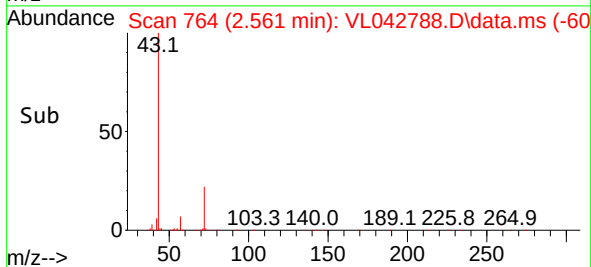
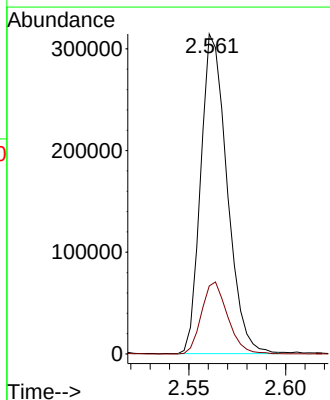
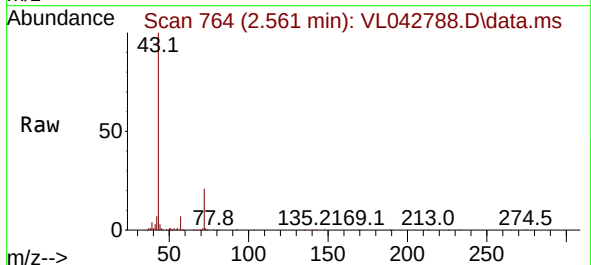
Manual Integrations
APPROVED

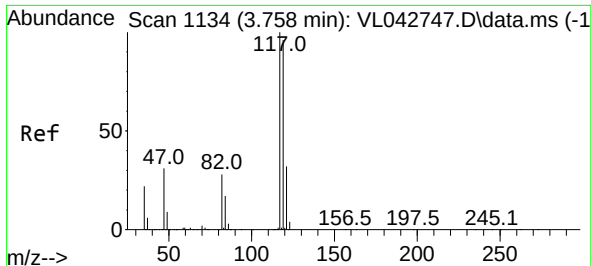
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#34
2-Butanone
Concen: 10.726 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.007 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

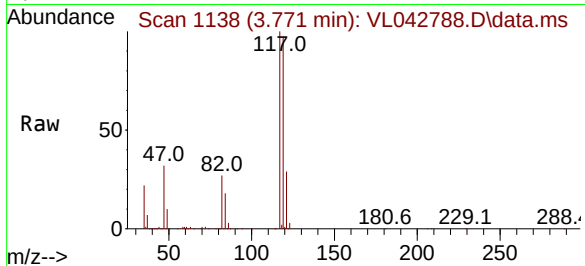
Tgt Ion: 43 Resp: 297678
Ion Ratio Lower Upper
43 100
72 22.4 17.4 26.0





#35
Carbon Tetrachloride
Concen: 10.672 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

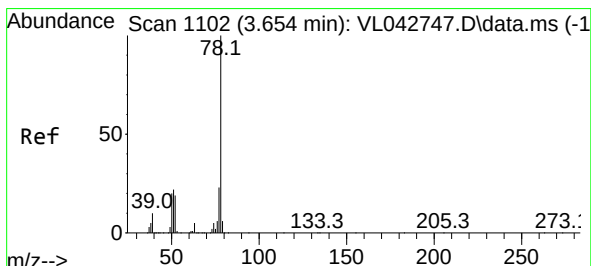
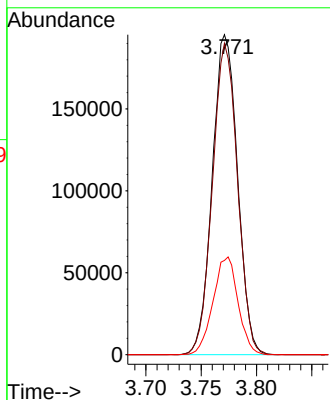
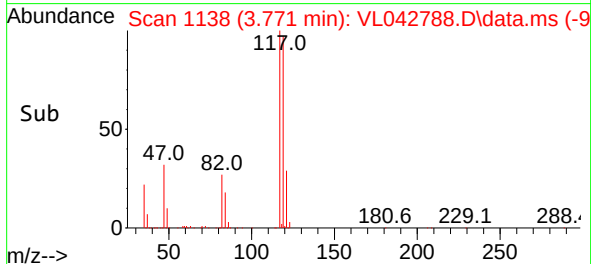
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



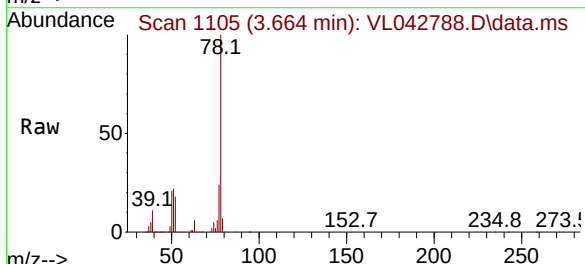
Tgt Ion: 117 Resp: 31058
Ion Ratio Lower Upper
117 100
119 97.3 77.1 115.7
121 29.5 25.5 38.3

Manual Integrations
APPROVED

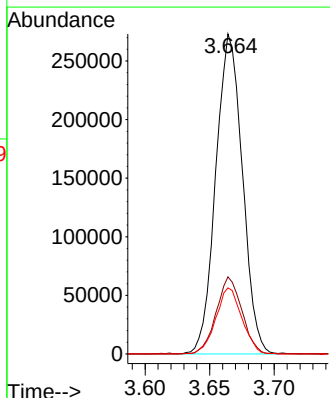
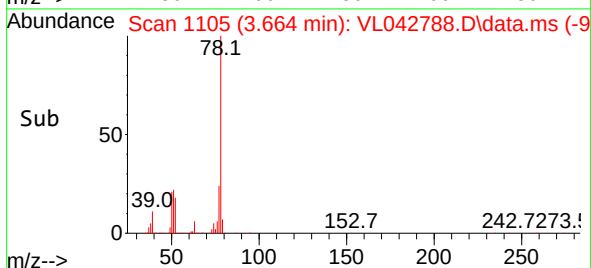
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

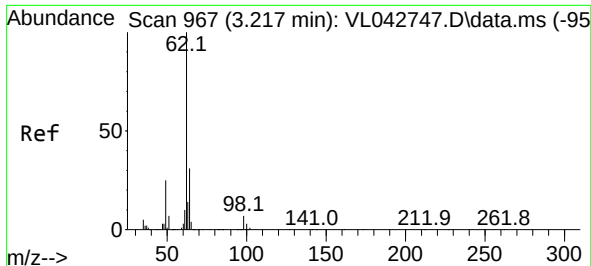


#36
Benzene
Concen: 10.548 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



Tgt Ion: 78 Resp: 391679
Ion Ratio Lower Upper
78 100
77 24.0 18.5 27.7
50 20.6 16.2 24.2





#37

1,2-Dichloroethane

Concen: 10.592 ppbv

RT: 3.227 min Scan# 91

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 62 Resp: 236929

Ion Ratio Lower Upper

62 100

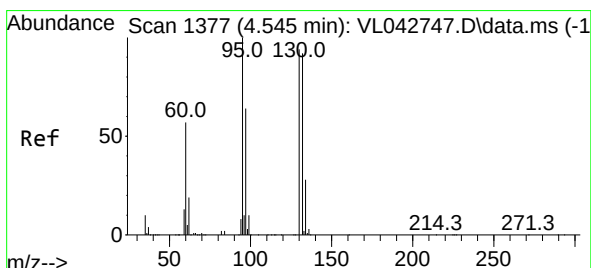
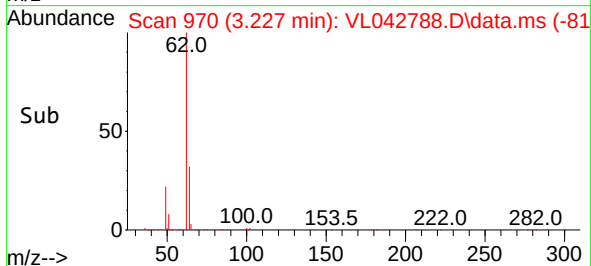
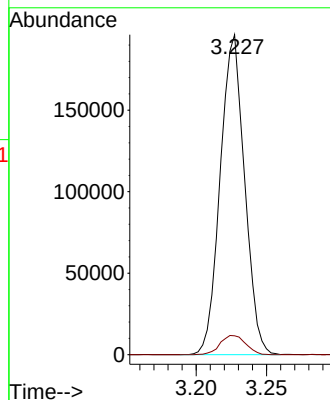
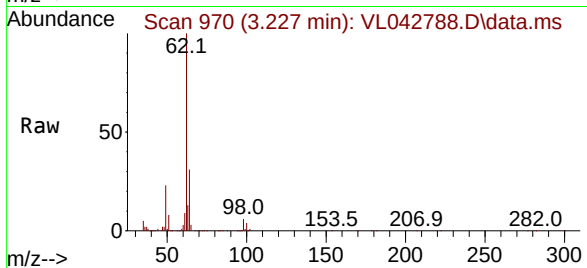
98 6.3 5.2 7.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#38

Trichloroethene

Concen: 9.991 ppbv

RT: 4.561 min Scan# 1382

Delta R.T. 0.016 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Tgt Ion:130 Resp: 178226

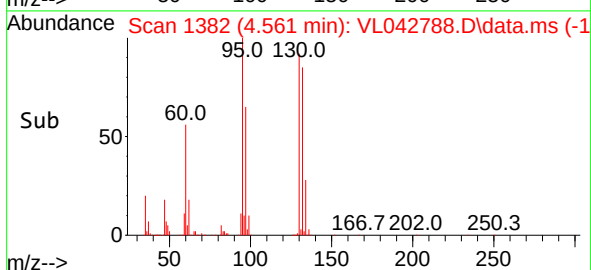
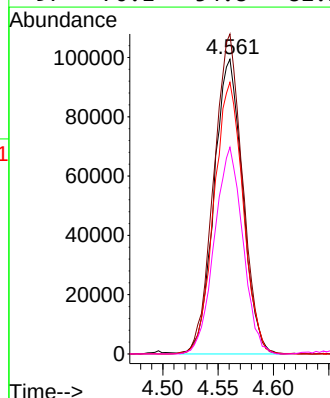
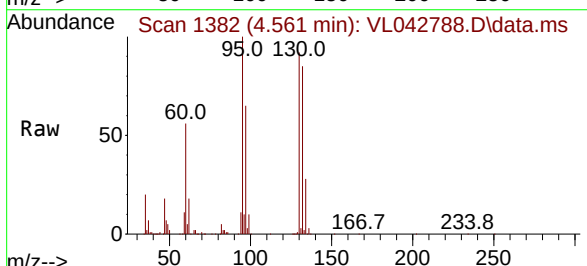
Ion Ratio Lower Upper

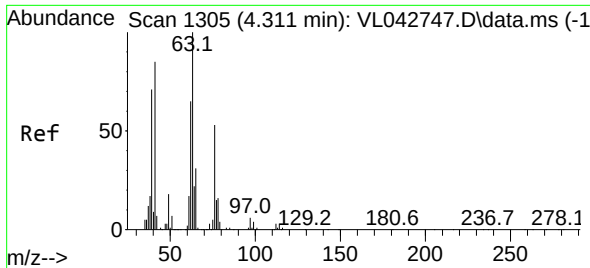
130 100

95 108.2 85.4 128.2

132 92.1 78.2 117.2

97 70.1 54.8 82.2





#39

1,2-Dichloropropane

Concen: 10.505 ppbv

RT: 4.324 min Scan# 1309

Delta R.T. 0.013 min

Lab File: VL042788.D

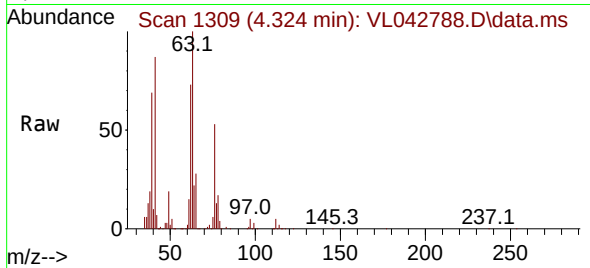
Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



Tgt Ion: 63 Resp: 143980

Ion Ratio Lower Upper

63 100

41 87.0 68.2 102.4

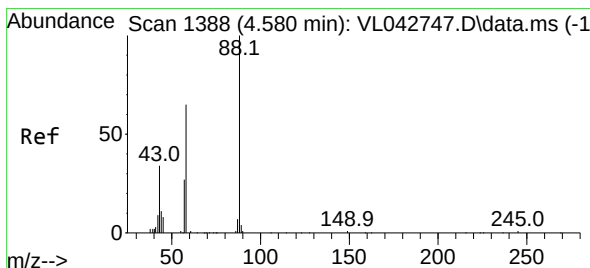
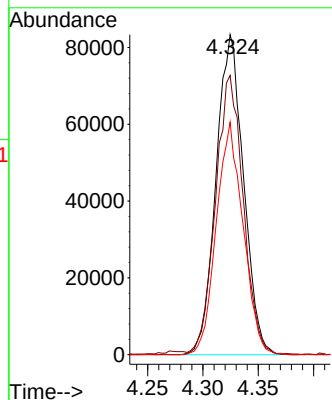
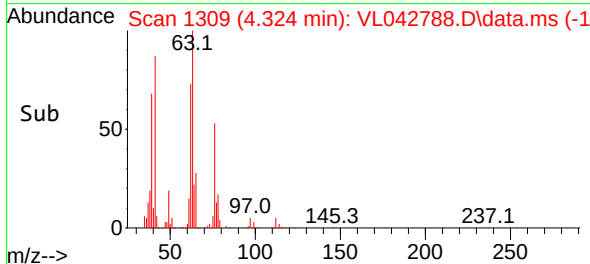
62 72.7 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#40

1,4-Dioxane

Concen: 10.049 ppbv

RT: 4.596 min Scan# 1393

Delta R.T. 0.016 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Tgt Ion: 88 Resp: 64201

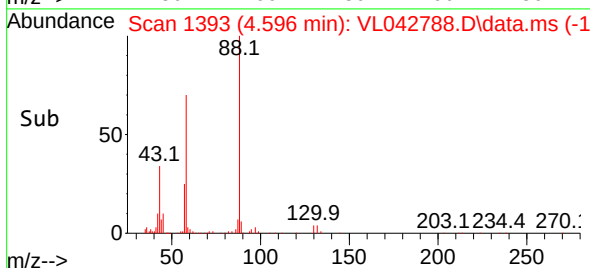
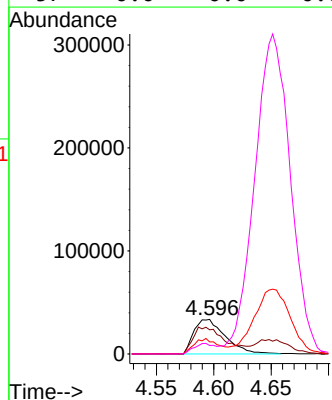
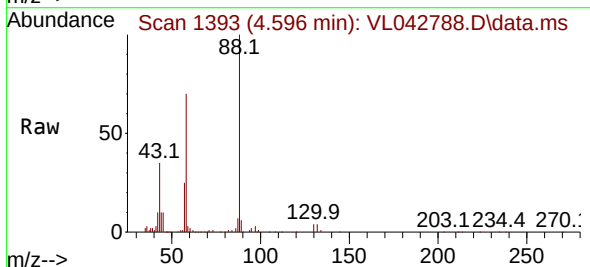
Ion Ratio Lower Upper

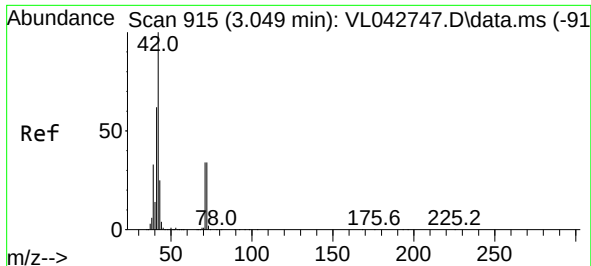
88 100

58 79.6 58.8 88.2

43 33.4 28.9 43.3

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 11.447 ppbv

RT: 3.059 min Scan# 915

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 42 Resp: 161670

Ion Ratio Lower Upper

42 100

72 36.3 30.9 46.3

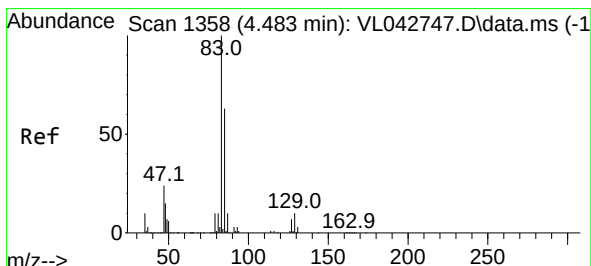
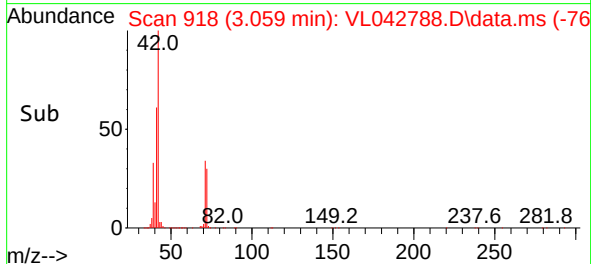
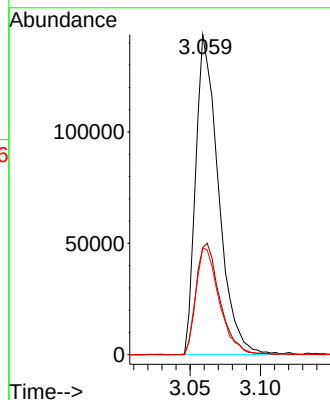
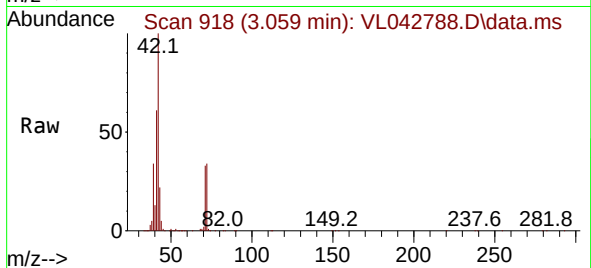
71 34.9 28.6 43.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#42

Bromodichloromethane

Concen: 11.125 ppbv

RT: 4.499 min Scan# 1363

Delta R.T. 0.016 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

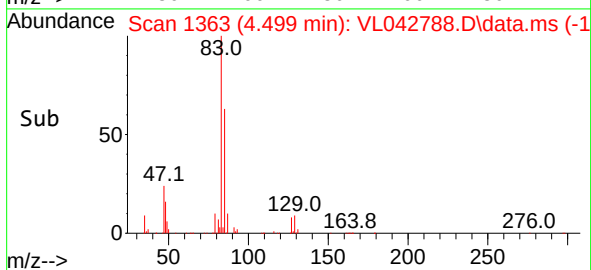
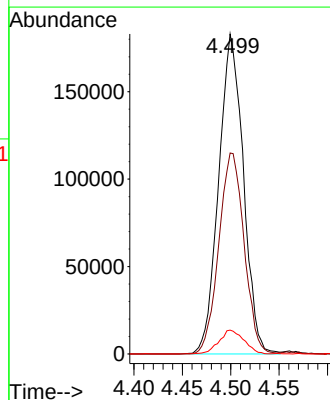
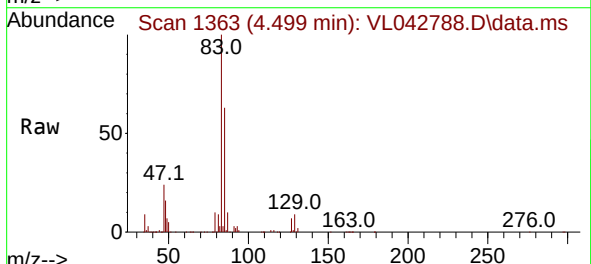
Tgt Ion: 83 Resp: 324091

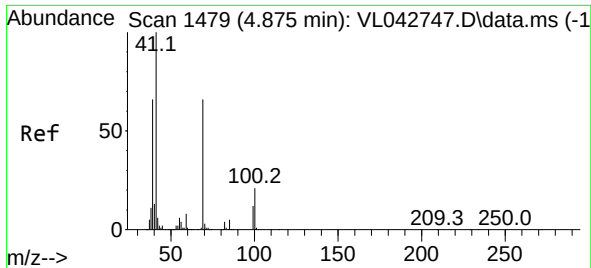
Ion Ratio Lower Upper

83 100

85 62.8 50.2 75.4

127 7.5 5.4 8.2





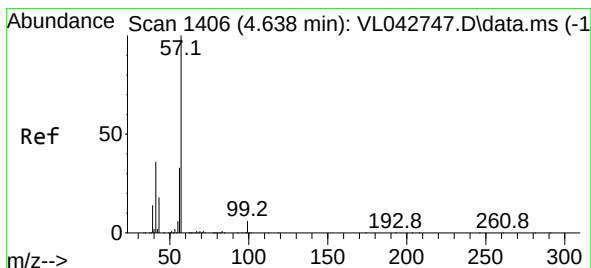
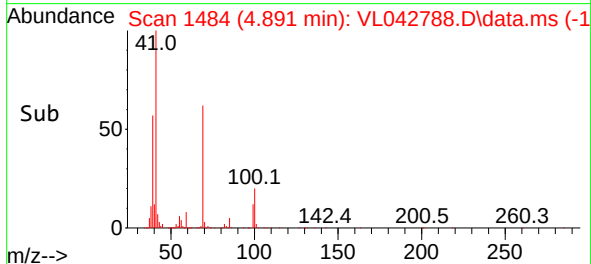
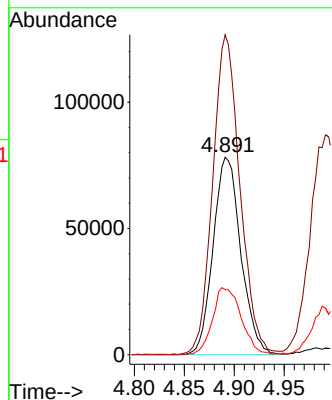
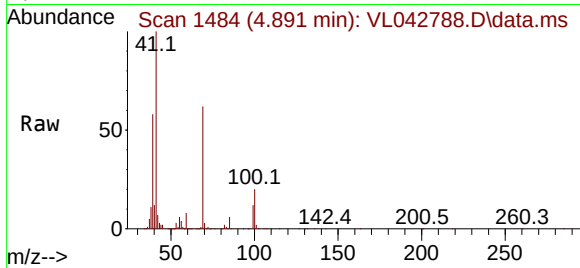
#43
Methyl Methacrylate
Concen: 11.418 ppbv
RT: 4.891 min Scan# 1479
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 150704
Ion Ratio Lower Upper
69 100
41 159.5 125.7 188.5
100 35.3 28.6 42.8

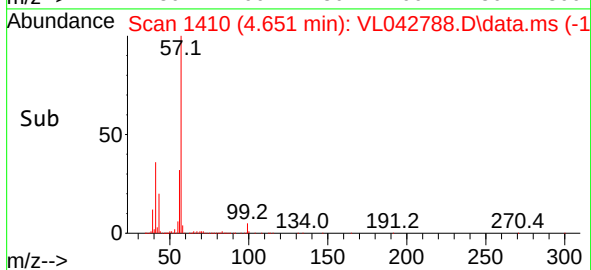
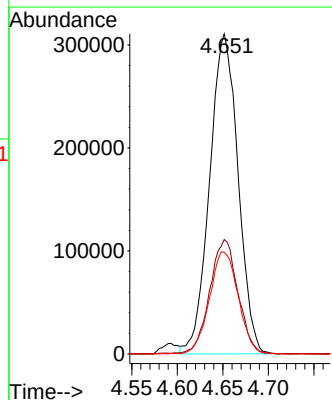
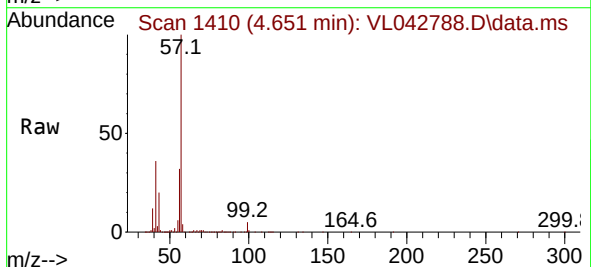
Manual Integrations
APPROVED

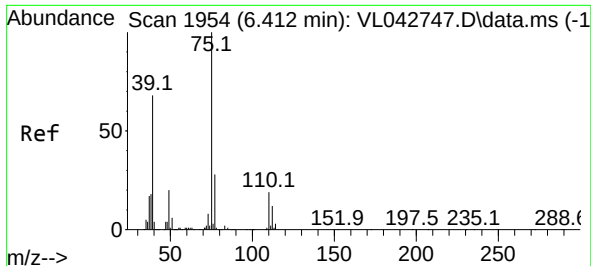
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#44
2,2,4-Trimethylpentane
Concen: 11.142 ppbv
RT: 4.651 min Scan# 1410
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

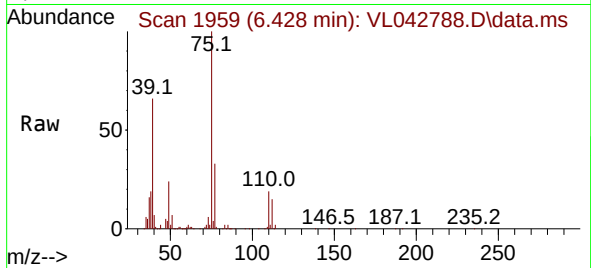
Tgt Ion: 57 Resp: 674333
Ion Ratio Lower Upper
57 100
41 35.8 28.3 42.5
56 32.4 25.8 38.6





#45
 t-1,3-Dichloropropene
 Concen: 11.393 ppbv
 RT: 6.428 min Scan# 1954
 Delta R.T. 0.016 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

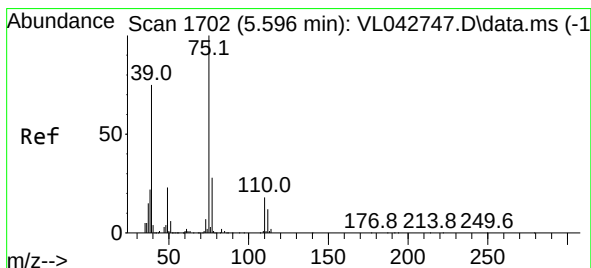
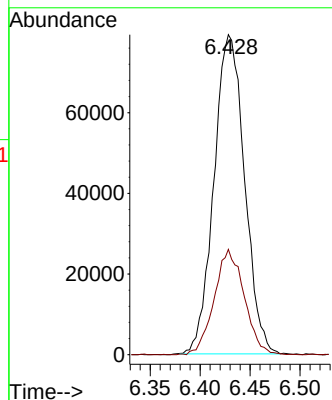
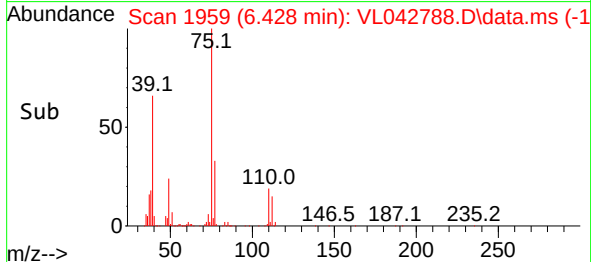
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 75 Resp: 16863
 Ion Ratio Lower Upper
 75 100
 77 32.9 22.4 33.6

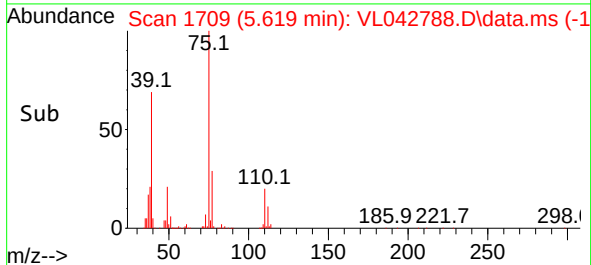
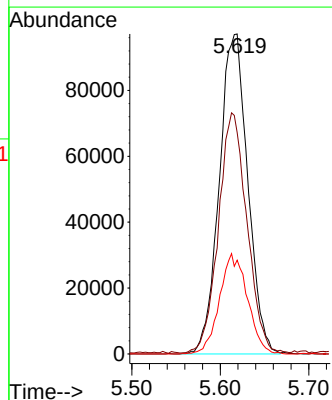
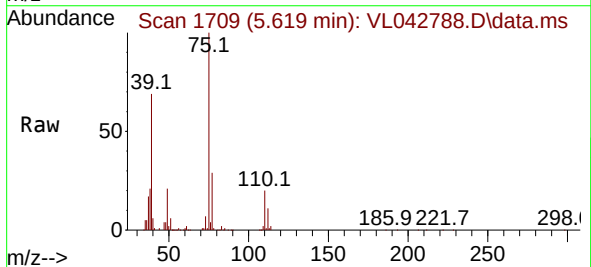
Manual Integrations
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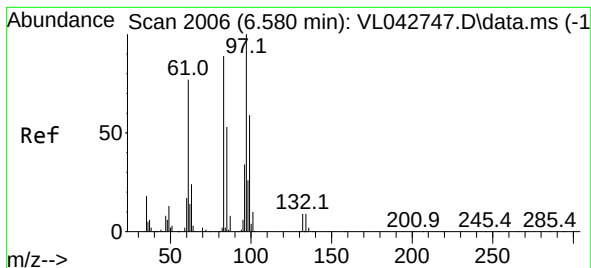
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#46
 cis-1,3-Dichloropropene
 Concen: 11.589 ppbv
 RT: 5.619 min Scan# 1709
 Delta R.T. 0.023 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion: 75 Resp: 217364
 Ion Ratio Lower Upper
 75 100
 39 68.9 60.2 90.2
 77 29.3 22.6 34.0





#47

1,1,2-Trichloroethane

Concen: 10.618 ppbv

RT: 6.597 min Scan# 2006

Delta R.T. 0.016 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 15514

Ion Ratio Lower Upper

97 100

83 89.2 71.1 106.7

85 50.8 43.0 64.4

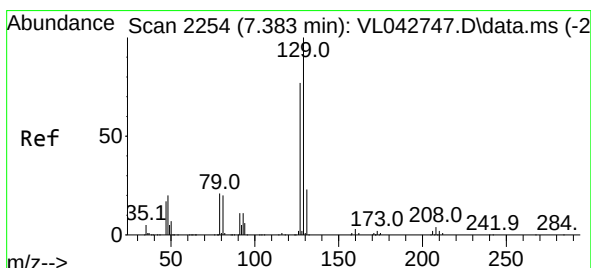
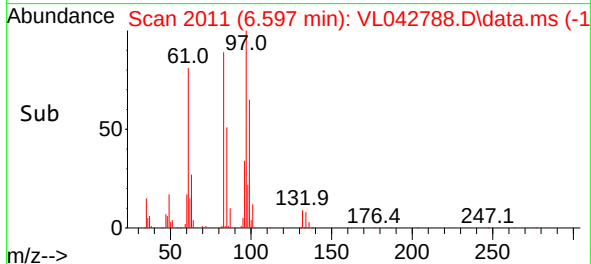
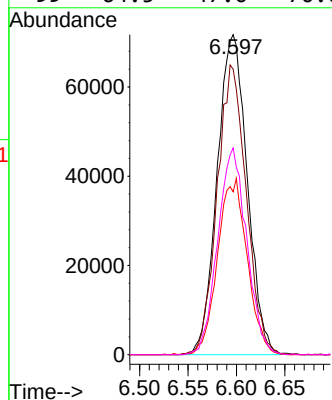
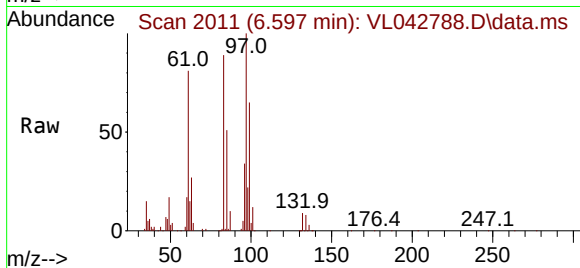
99 64.5 47.0 70.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#48

Dibromochloromethane

Concen: 11.346 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.016 min

Lab File: VL042788.D

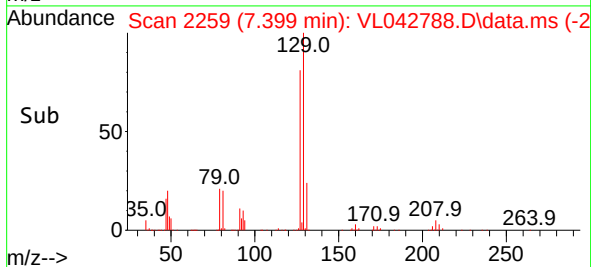
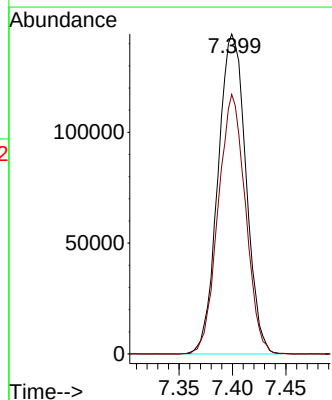
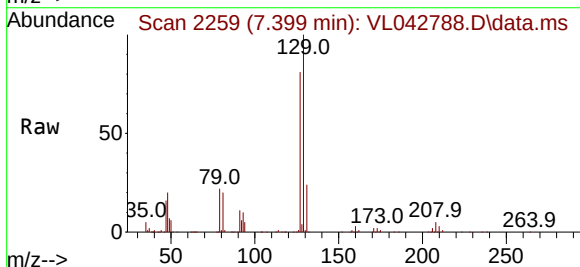
Acq: 31 Jul 2025 08:37

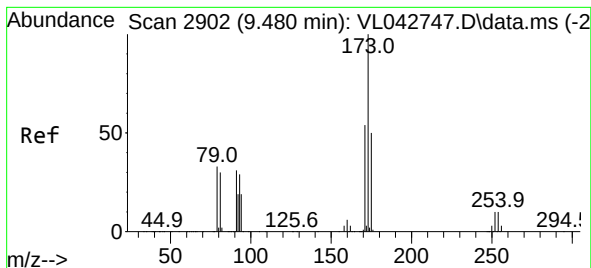
Tgt Ion:129 Resp: 263177

Ion Ratio Lower Upper

129 100

127 79.2 38.7 116.1





#49

Bromoform

Concen: 11.551 ppbv

RT: 9.493 min Scan# 2902

Delta R.T. 0.013 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

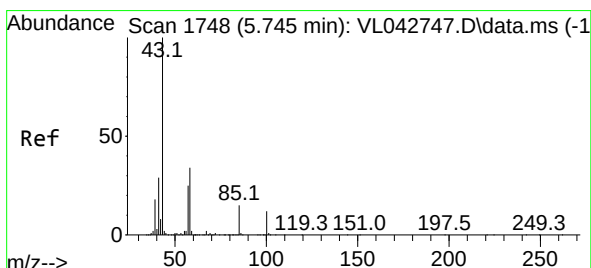
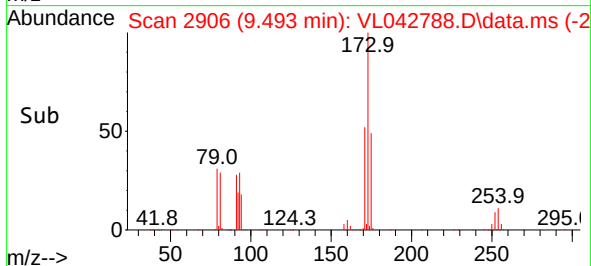
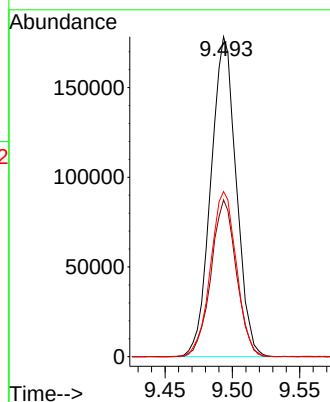
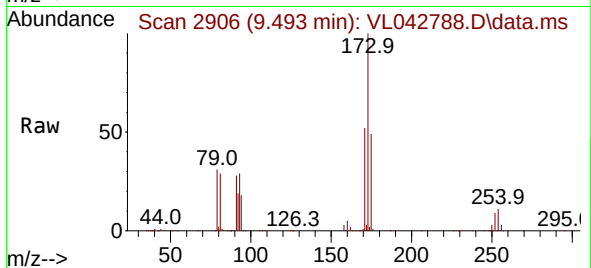
VSTDCCC010

Tgt Ion:173 Resp: 233620
 Ion Ratio Lower Upper
 173 100
 175 49.1 38.4 57.6
 171 52.8 40.9 61.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#50

4-Methyl-2-Pentanone

Concen: 11.101 ppbv

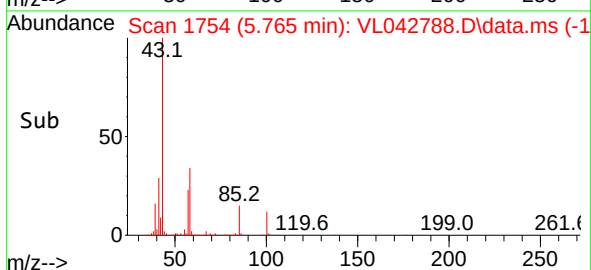
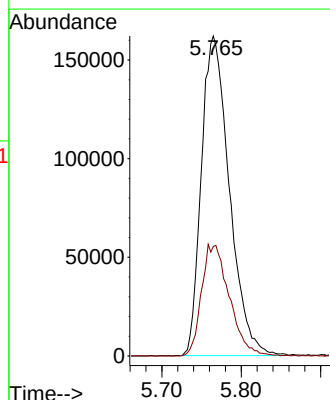
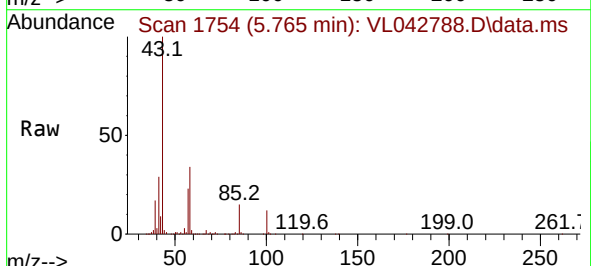
RT: 5.765 min Scan# 1754

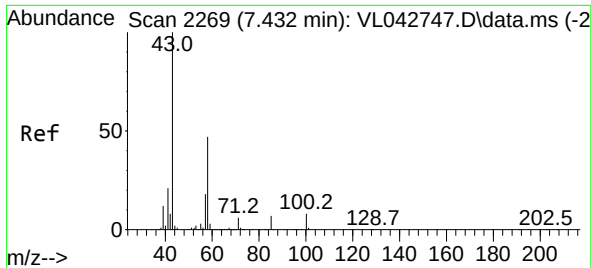
Delta R.T. 0.019 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

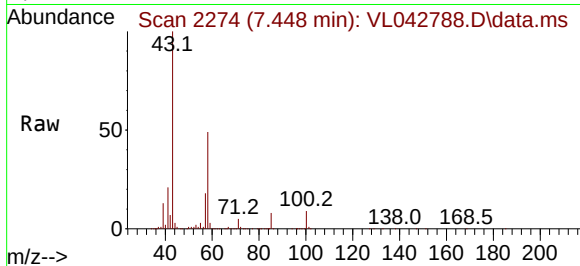
Tgt Ion: 43 Resp: 396864
 Ion Ratio Lower Upper
 43 100
 58 34.7 27.8 41.8





#51
2-Hexanone
Concen: 11.778 ppbv
RT: 7.448 min Scan# 2117
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

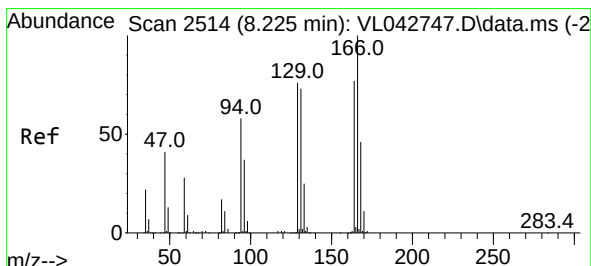
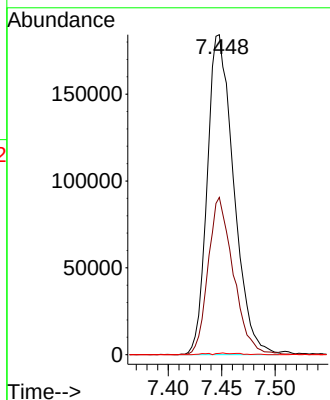
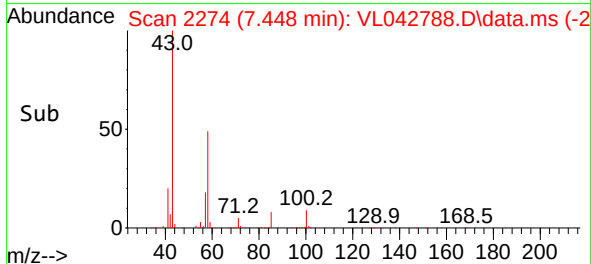
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 43 Resp: 318210
Ion Ratio Lower Upper
43 100
58 46.9 38.0 57.0
98 0.6 0.2 0.4

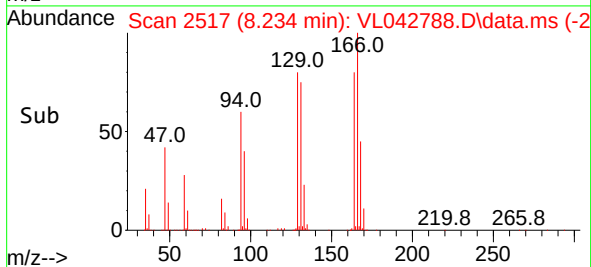
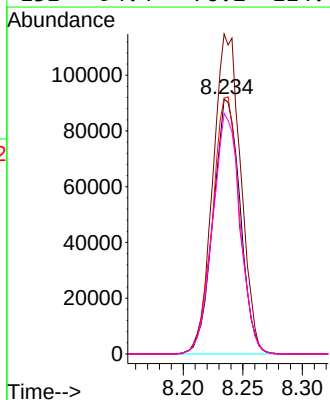
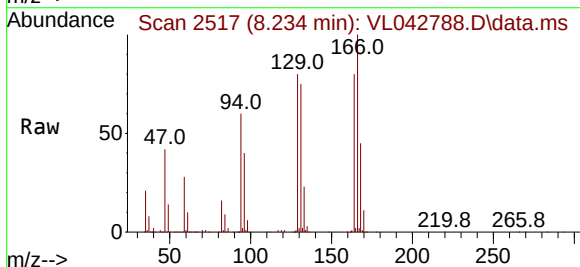
Manual Integrations
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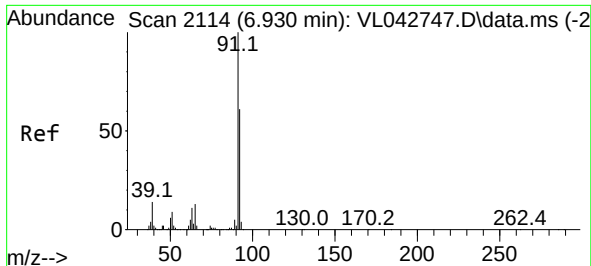
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#52
Tetrachloroethene
Concen: 9.319 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion:164 Resp: 143437
Ion Ratio Lower Upper
164 100
166 125.6 104.0 156.0
129 100.3 79.2 118.8
131 94.4 76.2 114.4





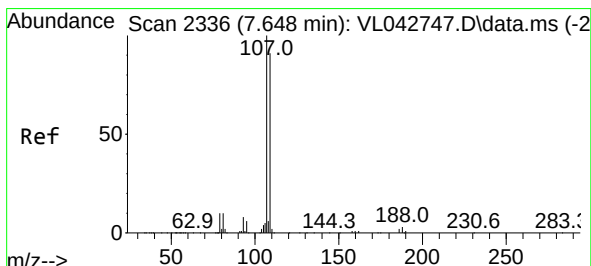
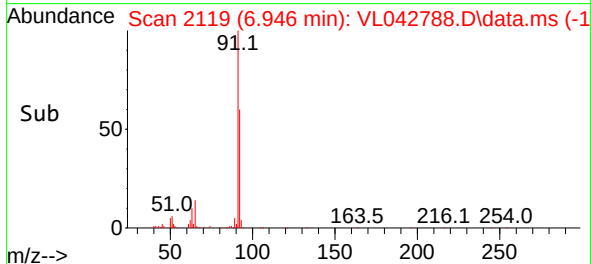
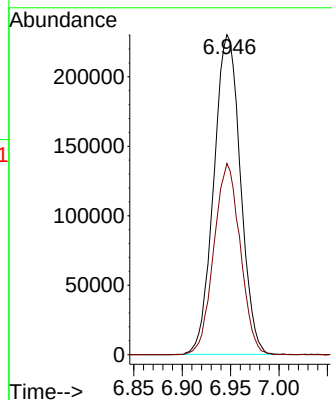
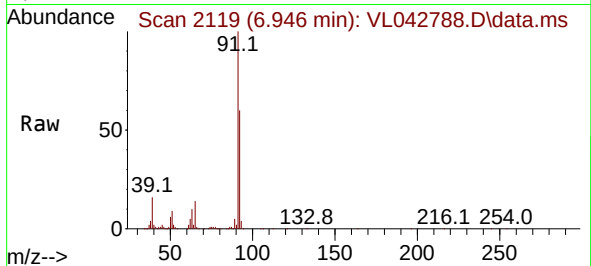
#53
Toluene
Concen: 11.044 ppbv
RT: 6.946 min Scan# 2114
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 440370
Ion Ratio Lower Upper
91 100
92 59.3 48.0 72.0

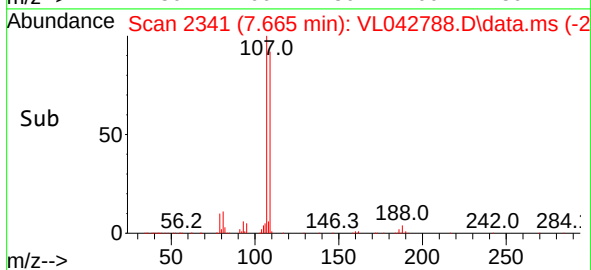
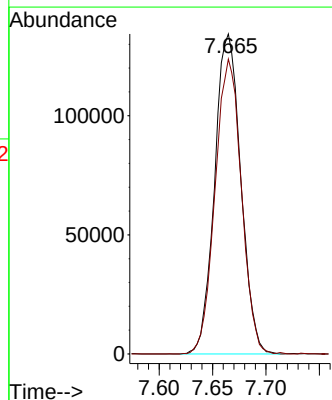
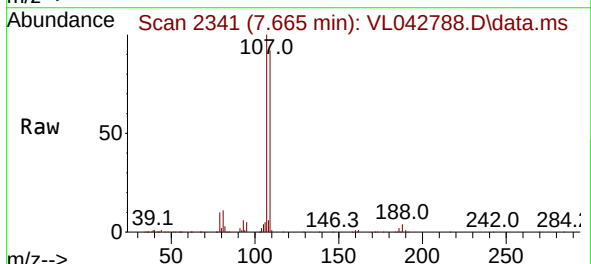
Manual Integrations
APPROVED

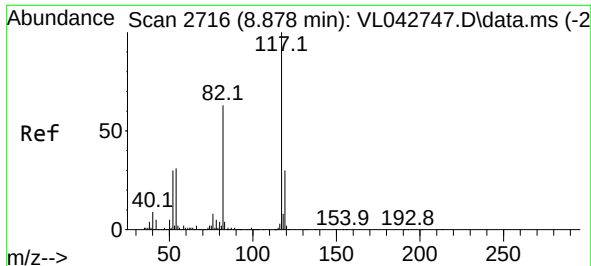
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#54
1,2-Dibromoethane
Concen: 11.078 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion:107 Resp: 228691
Ion Ratio Lower Upper
107 100
109 92.2 72.7 109.1





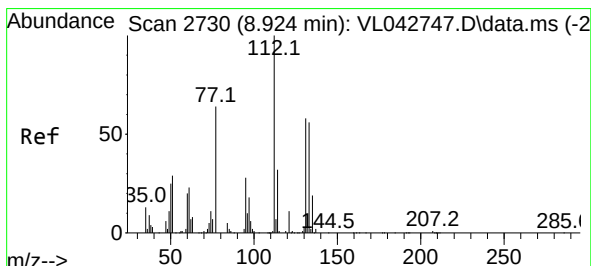
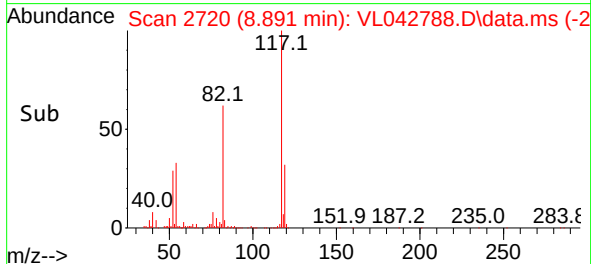
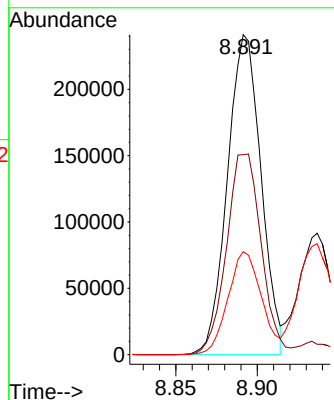
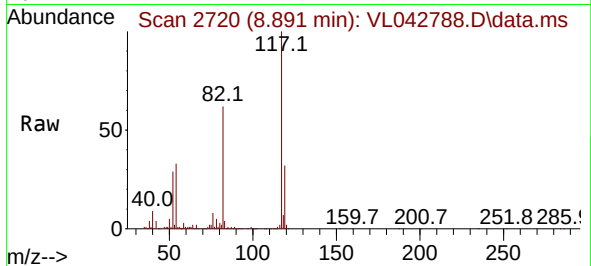
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2716
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 34590
Ion Ratio Lower Upper
117 100
82 68.7 53.3 79.9
119 31.5 25.8 38.6

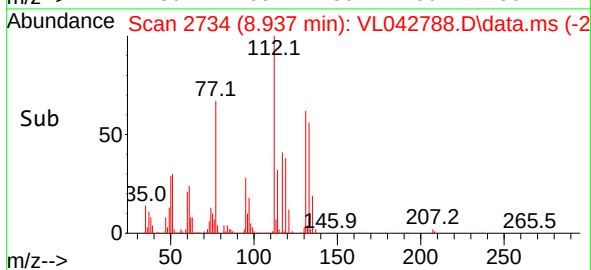
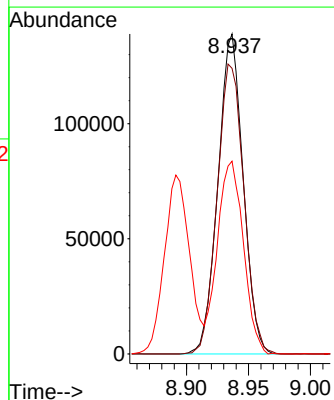
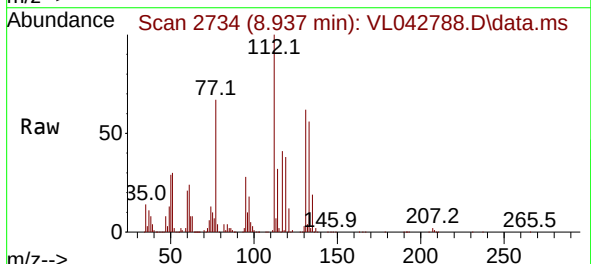
Manual Integrations
APPROVED

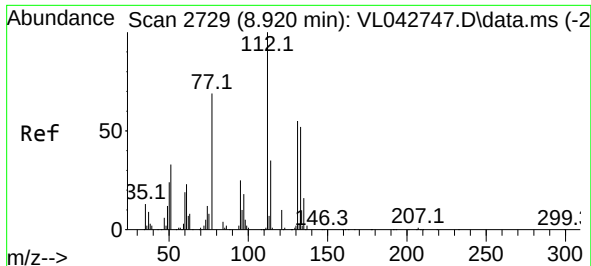
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 10.944 ppbv
RT: 8.937 min Scan# 2734
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

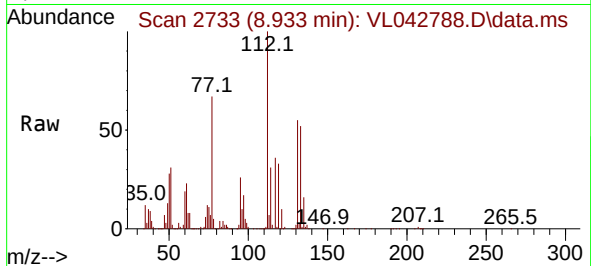
Tgt Ion:131 Resp: 196819
Ion Ratio Lower Upper
131 100
133 96.1 76.8 115.2
119 63.5 49.7 74.5





#57
Chlorobenzene
Concen: 10.455 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

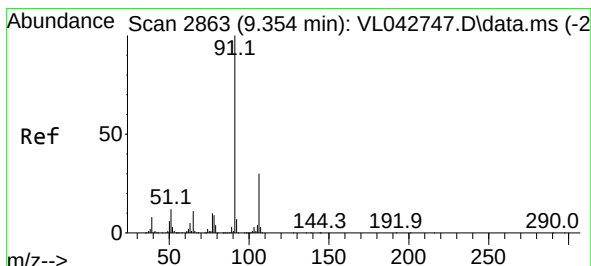
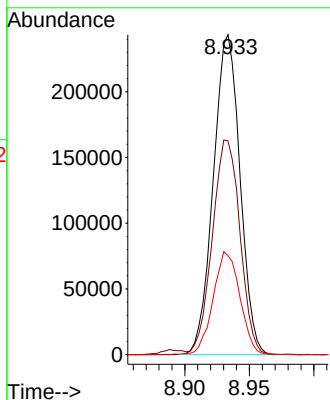
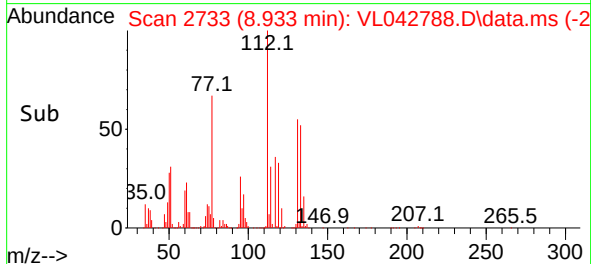
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:112 Resp: 349998
Ion Ratio Lower Upper
112 100
77 66.8 56.4 84.6
114 30.9 31.2 38.2

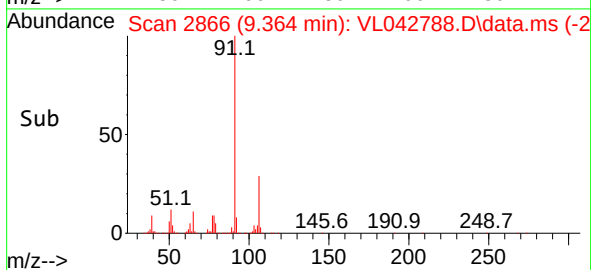
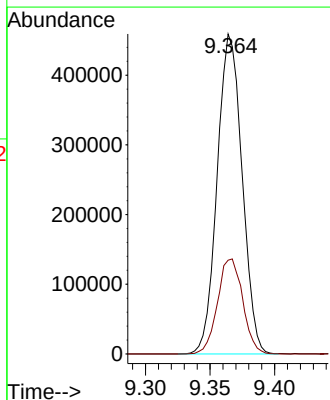
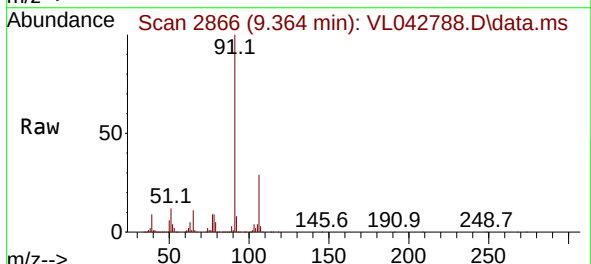
Manual Integrations
APPROVED

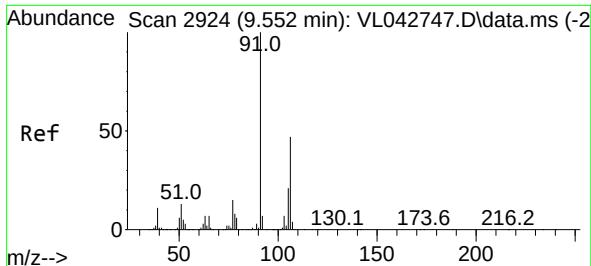
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#58
Ethyl Benzene
Concen: 11.272 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 91 Resp: 615736
Ion Ratio Lower Upper
91 100
106 29.3 23.8 35.6





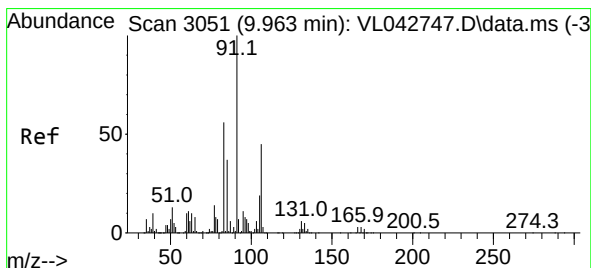
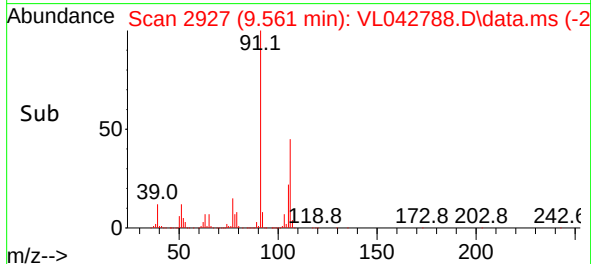
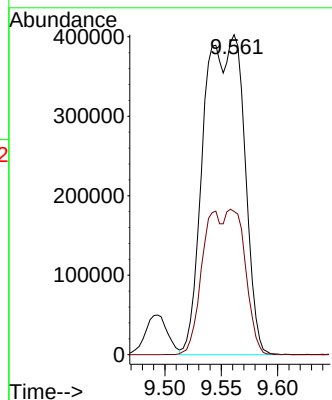
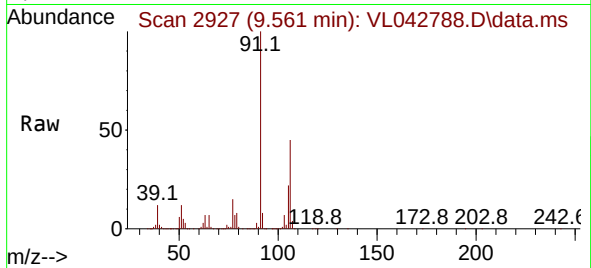
#59
m/p-Xylene
Concen: 23.053 ppbv m
RT: 9.561 min Scan# 2924
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 1006369
Ion Ratio Lower Upper
91 100
106 46.2 37.4 56.2

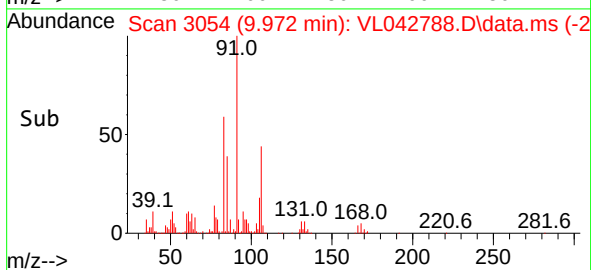
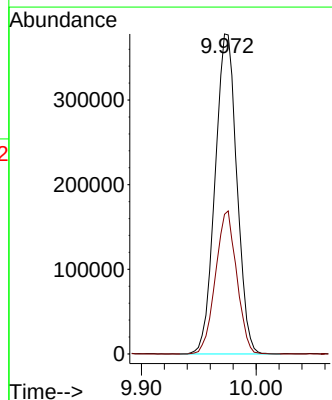
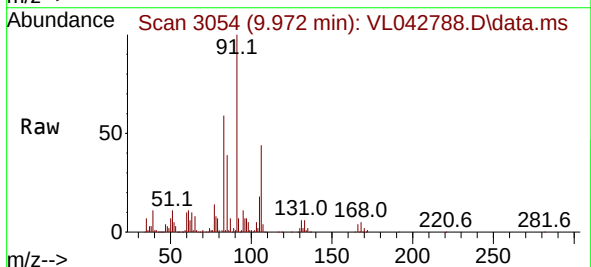
Manual Integrations
APPROVED

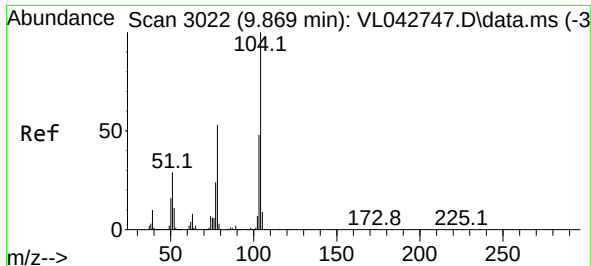
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#60
o-Xylene
Concen: 11.414 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 91 Resp: 497901
Ion Ratio Lower Upper
91 100
106 43.7 22.0 66.0





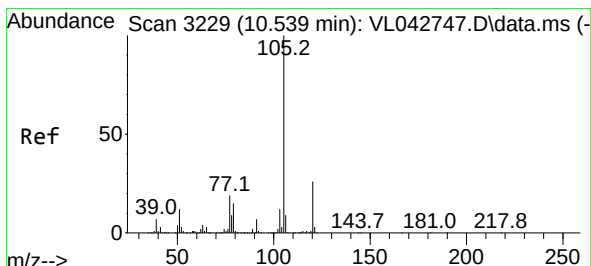
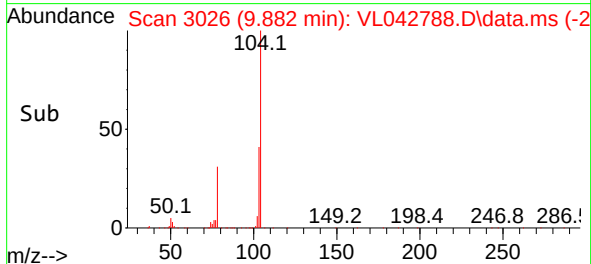
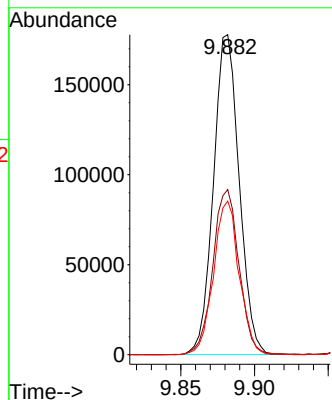
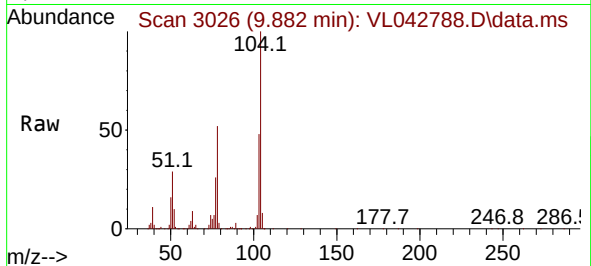
#61
Styrene
Concen: 11.742 ppbv
RT: 9.882 min Scan# 3022
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 215469
Ion Ratio Lower Upper
104 100
78 52.5 41.5 62.3
103 47.9 37.5 56.3

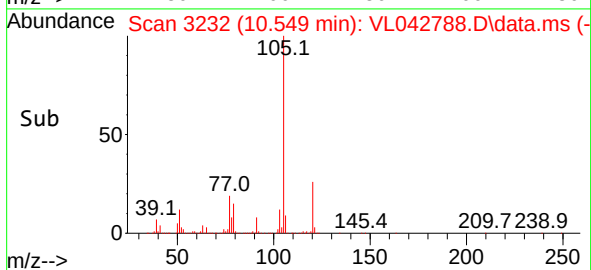
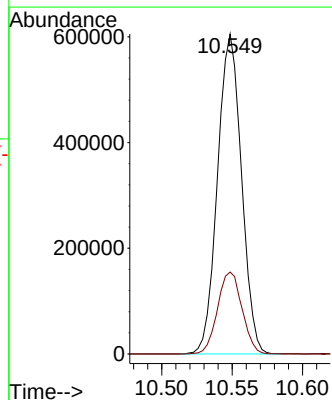
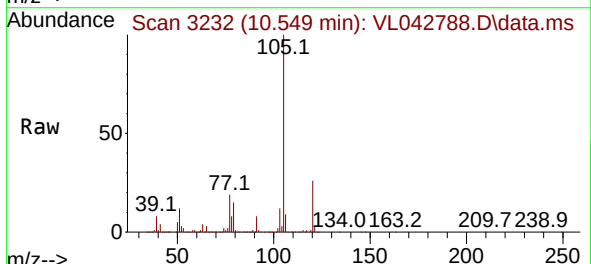
Manual Integrations
APPROVED

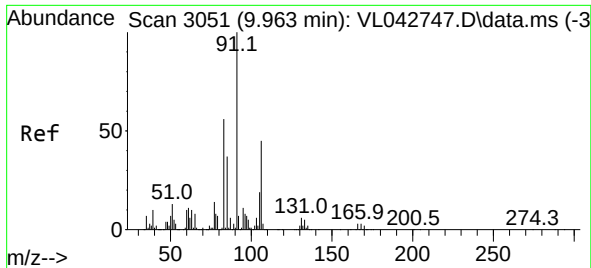
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#62
Isopropylbenzene
Concen: 11.132 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

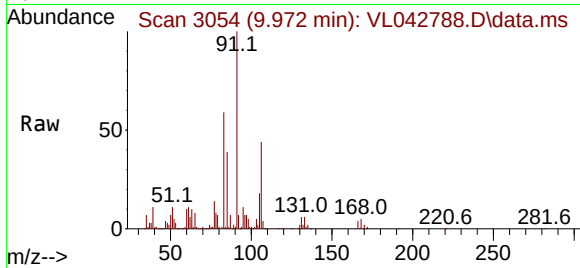
Tgt Ion:105 Resp: 716277
Ion Ratio Lower Upper
105 100
120 26.1 20.5 30.7





#63
1,1,2,2-Tetrachloroethane
Concen: 10.413 ppbv
RT: 9.972 min Scan# 3051
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

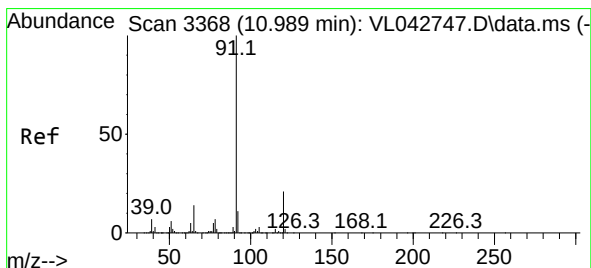
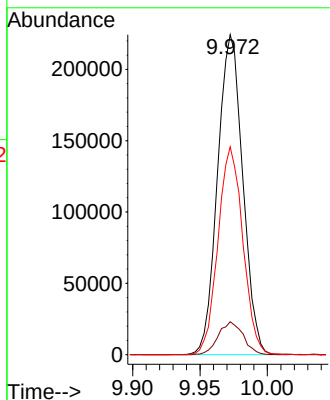
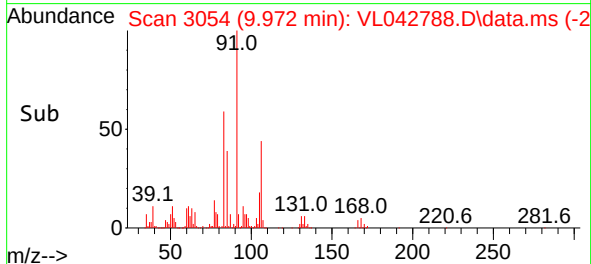
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



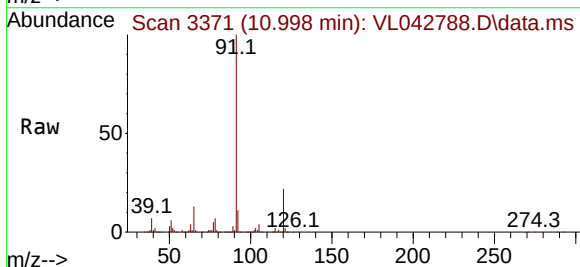
Tgt Ion: 83 Resp: 291620
Ion Ratio Lower Upper
83 100
131 10.2 5.0 15.0
85 64.1 32.6 97.7

Manual Integrations
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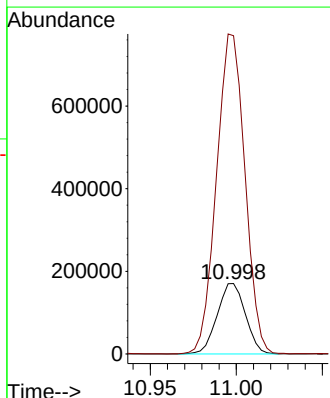
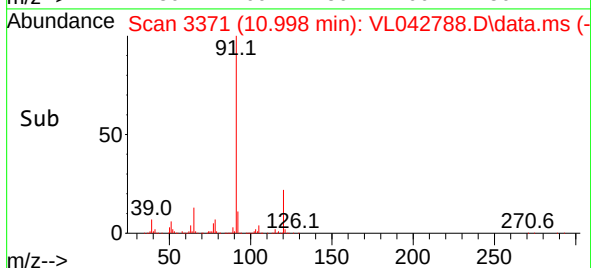
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

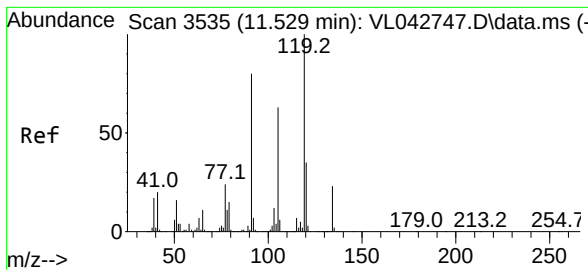


#64
n-propylbenzene
Concen: 11.563 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



Tgt Ion:120 Resp: 193965
Ion Ratio Lower Upper
120 100
91 459.7 372.7 559.1





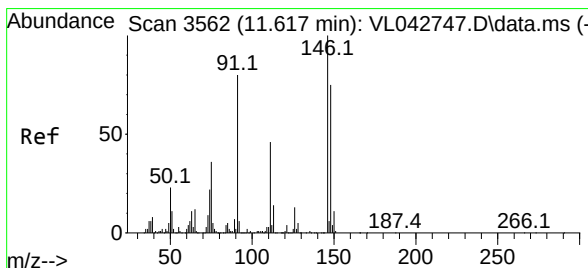
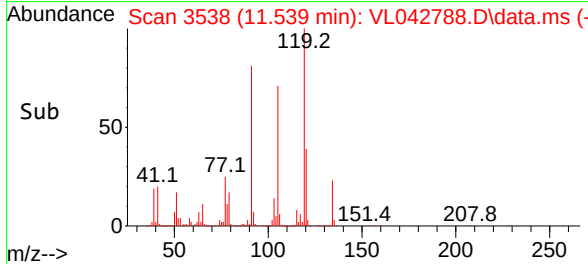
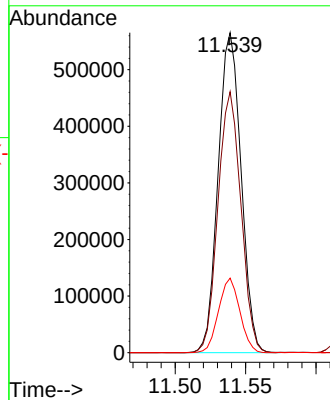
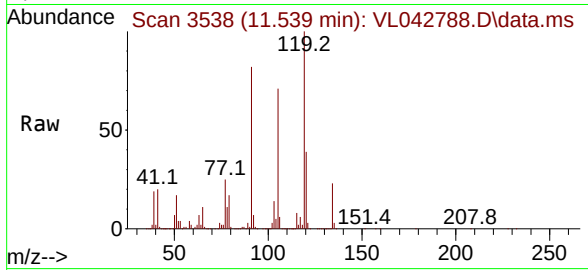
#65
tert-Butylbenzene
Concen: 11.215 ppbv
RT: 11.539 min Scan# 3535
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 641028
Ion Ratio Lower Upper
119 100
91 81.6 64.0 96.0
134 21.6 17.3 25.9

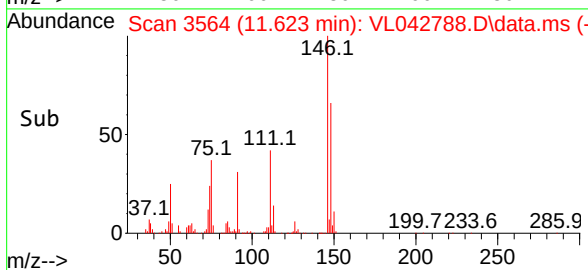
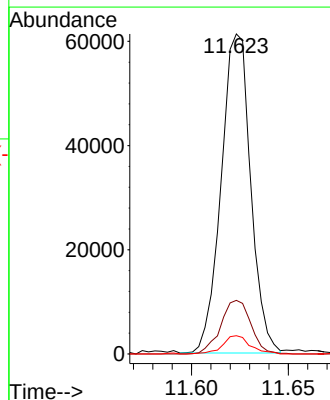
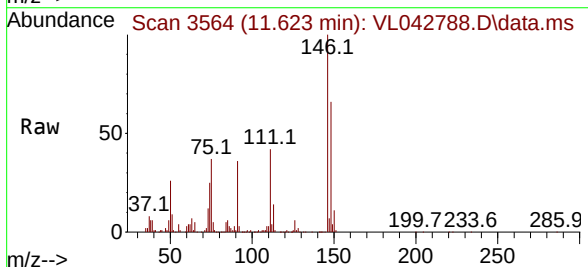
Manual Integrations
APPROVED

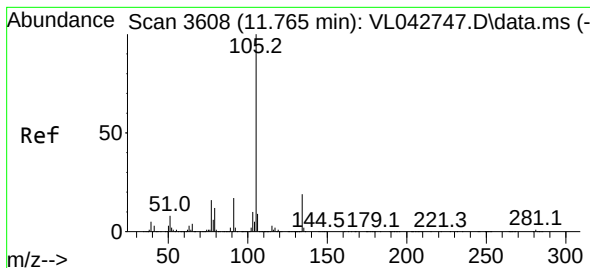
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#66
Benzyl Chloride
Concen: 13.854 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.007 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

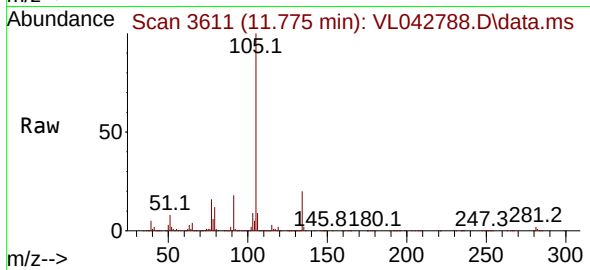
Tgt Ion: 91 Resp: 65004
Ion Ratio Lower Upper
91 100
126 17.1 14.4 21.6
128 5.4 5.2 7.8





#67
 sec-Butylbenzene
 Concen: 11.144 ppbv
 RT: 11.775 min Scan# 30
 Delta R.T. 0.010 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

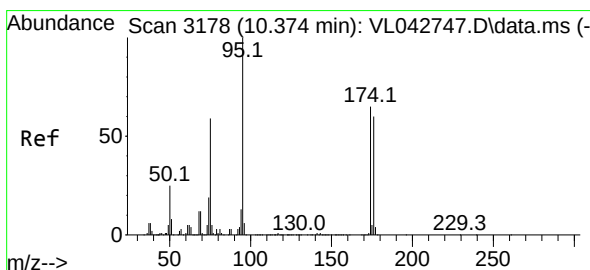
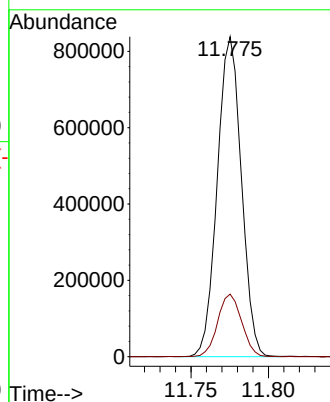
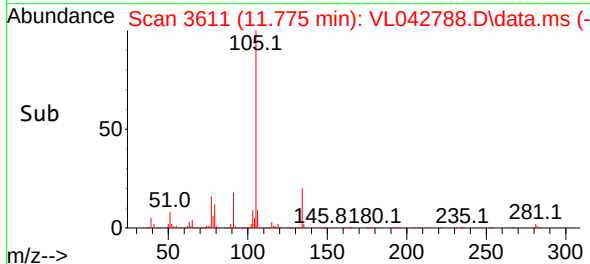
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



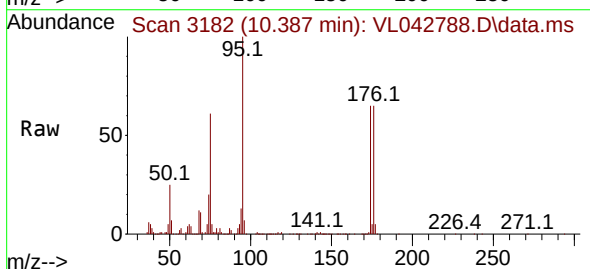
Tgt Ion:105 Resp: 90593
 Ion Ratio Lower Upper
 105 100
 134 19.5 15.5 23.3

Manual Integrations
 APPROVED

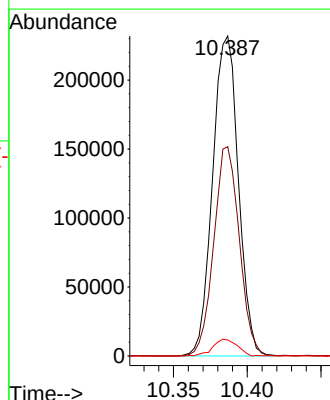
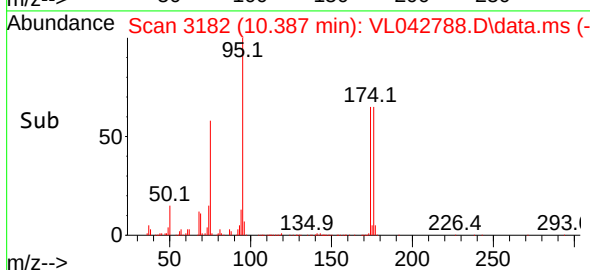
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

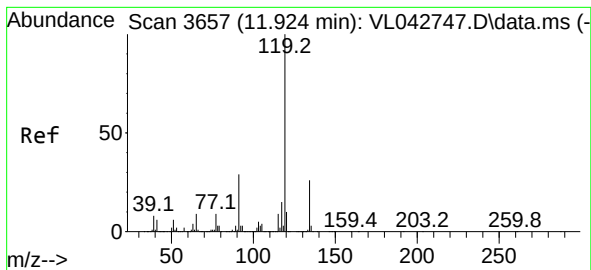


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.295 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.013 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37



Tgt Ion: 95 Resp: 282020
 Ion Ratio Lower Upper
 95 100
 174 65.0 53.8 80.6
 175 5.0 4.0 6.0





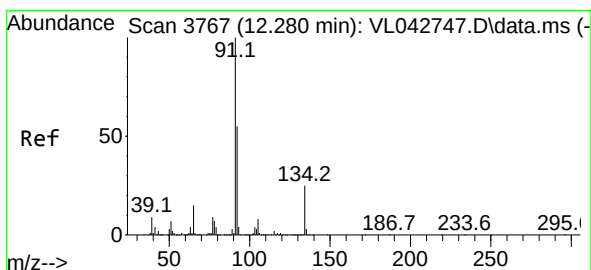
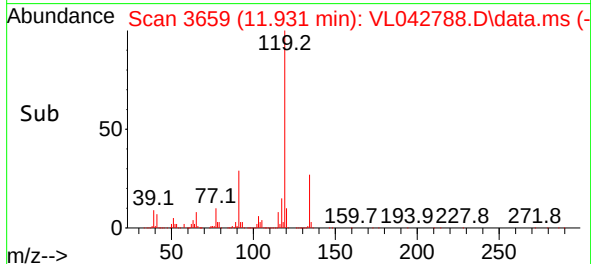
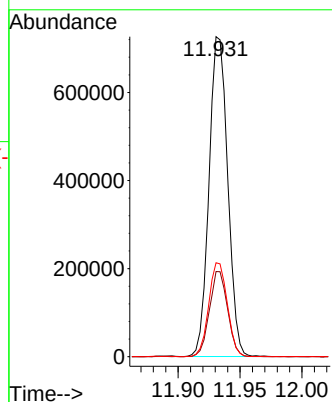
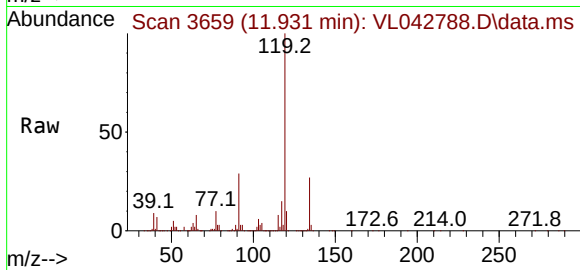
#69
p-Isopropyltoluene
Concen: 11.517 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.007 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 76342
Ion Ratio Lower Upper
119 100
134 26.0 20.6 31.0
91 29.4 23.2 34.8

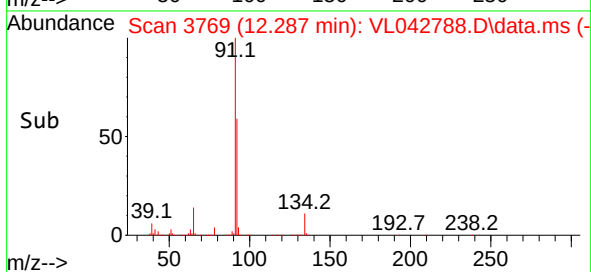
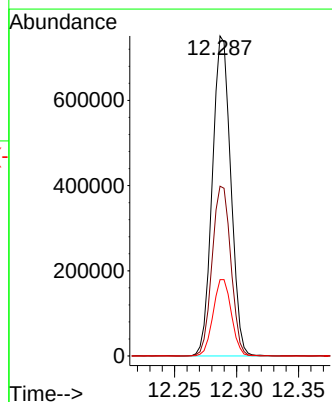
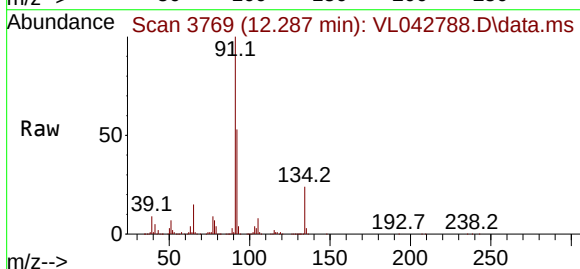
Manual Integrations
APPROVED

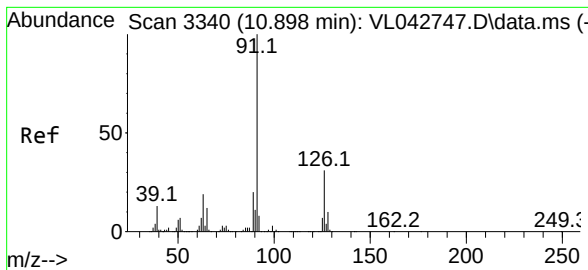
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#70
n-Butylbenzene
Concen: 12.171 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.007 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

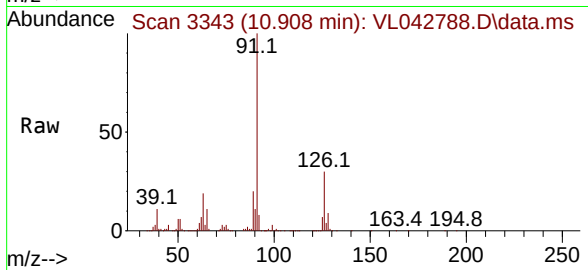
Tgt Ion: 91 Resp: 779301
Ion Ratio Lower Upper
91 100
92 53.9 43.4 65.2
134 23.7 19.6 29.4





#71
2-Chlorotoluene
Concen: 11.203 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

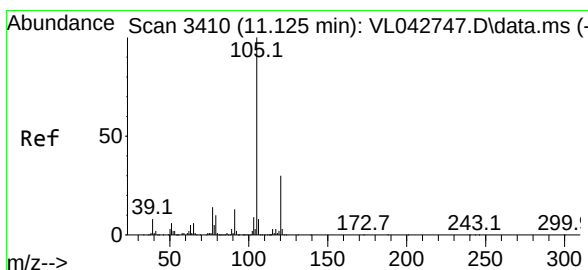
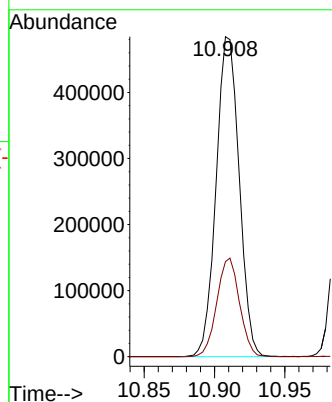
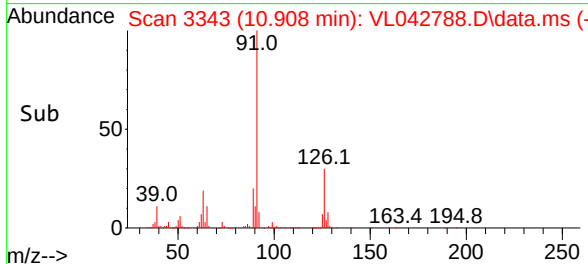
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



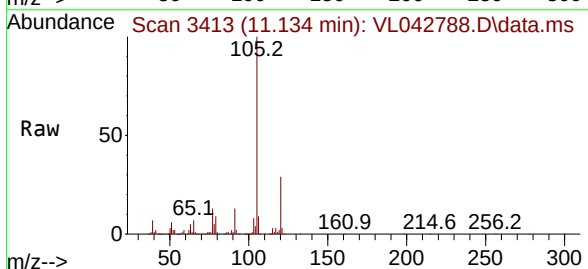
Tgt Ion: 91 Resp: 552725
Ion Ratio Lower Upper
91 100
126 30.3 12.0 48.2

Manual Integrations
APPROVED

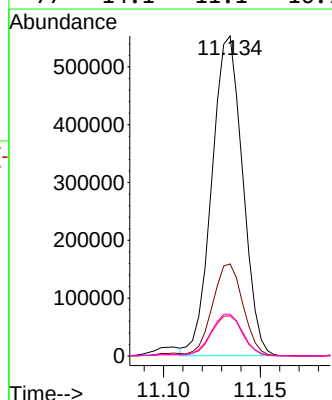
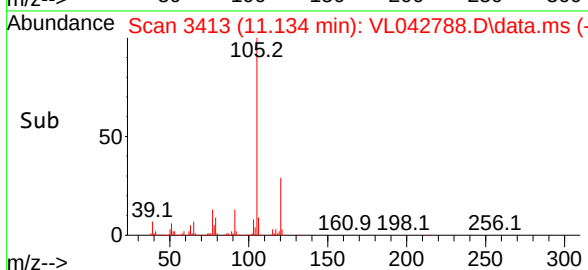
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

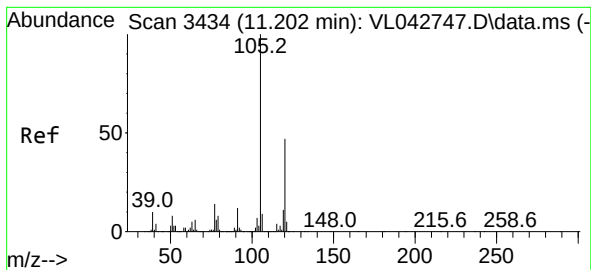


#72
4-Ethyltoluene
Concen: 11.745 ppbv
RT: 11.134 min Scan# 3413
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



Tgt Ion:105 Resp: 611893
Ion Ratio Lower Upper
105 100
120 29.3 24.4 36.6
91 13.1 10.6 15.8
77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 11.791 ppbv

RT: 11.212 min Scan# 3434

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:105 Resp: 505734

Ion Ratio Lower Upper

105 100

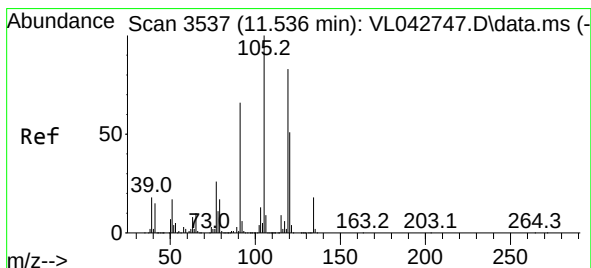
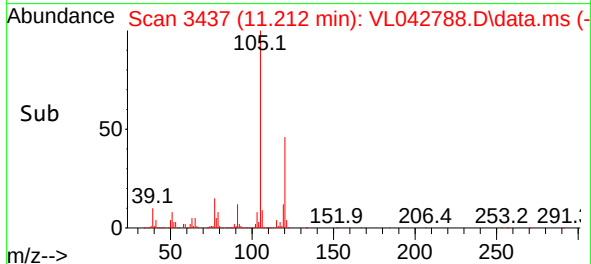
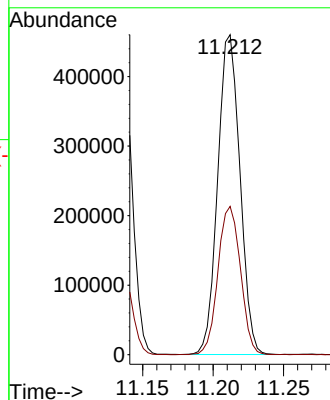
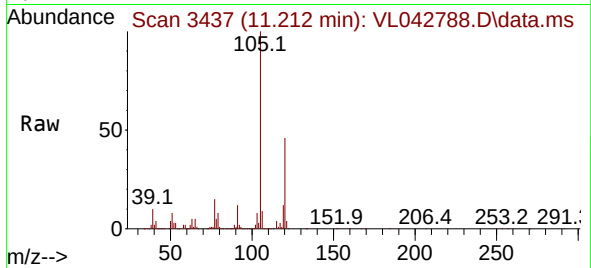
120 46.3 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#74

1,2,4-Trimethylbenzene

Concen: 12.030 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Tgt Ion:105 Resp: 562952

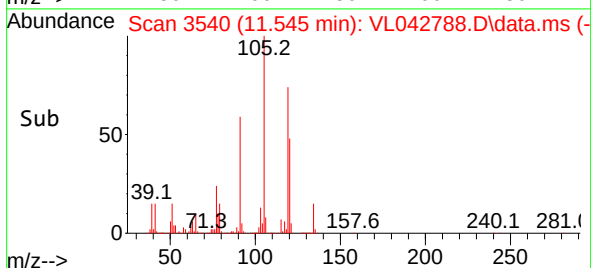
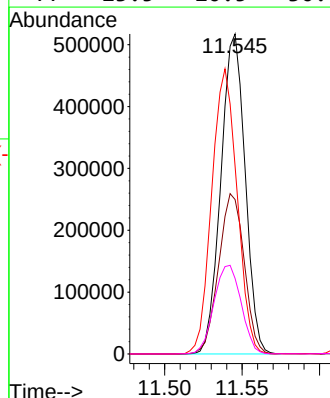
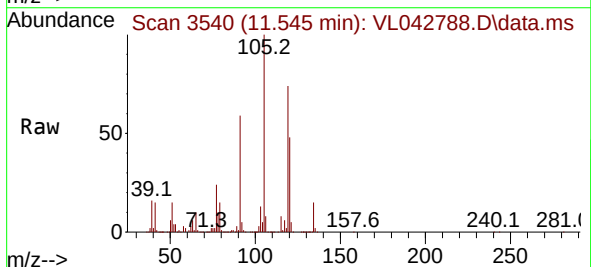
Ion Ratio Lower Upper

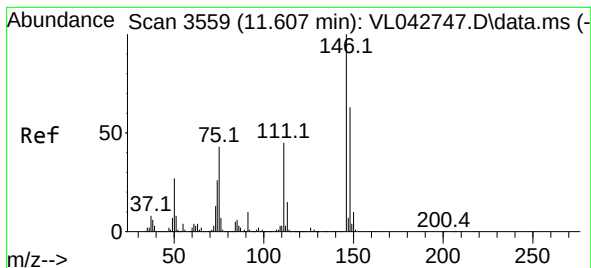
105 100

120 48.3 40.8 61.2

91 58.6 53.0 79.4

77 23.5 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 11.049 ppbv

RT: 11.613 min Scan# 3559

Delta R.T. 0.006 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:146 Resp: 36246

Ion Ratio Lower Upper

146 100

111 45.0 22.7 68.0

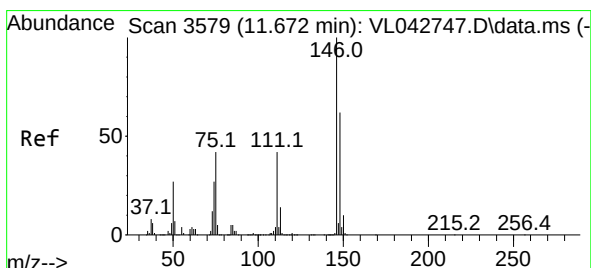
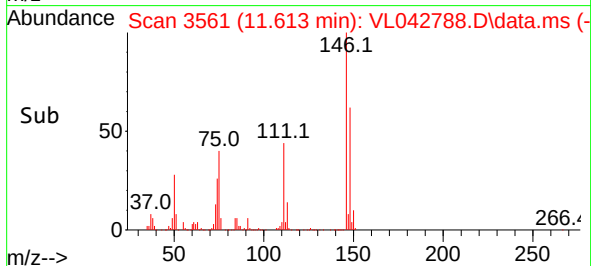
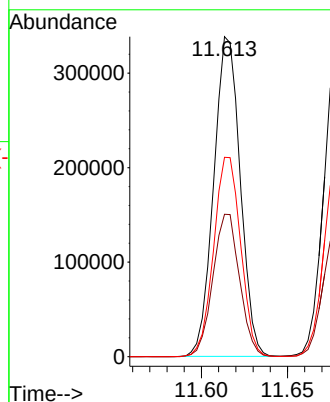
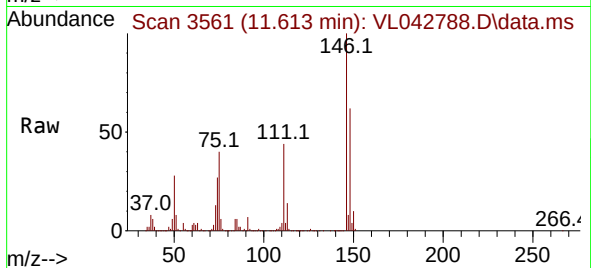
148 63.6 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#76

1,4-Dichlorobenzene

Concen: 11.209 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.007 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

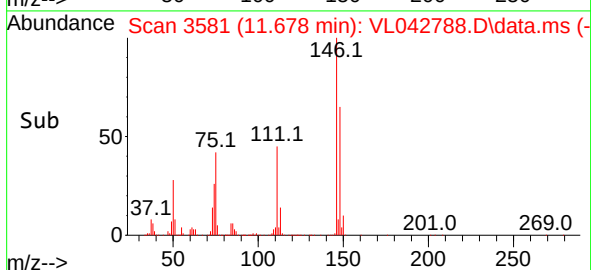
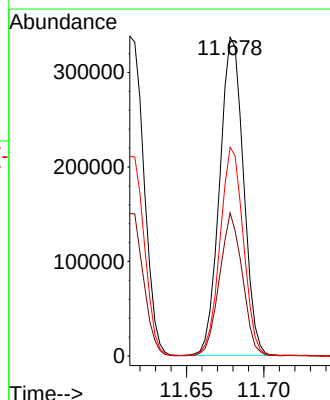
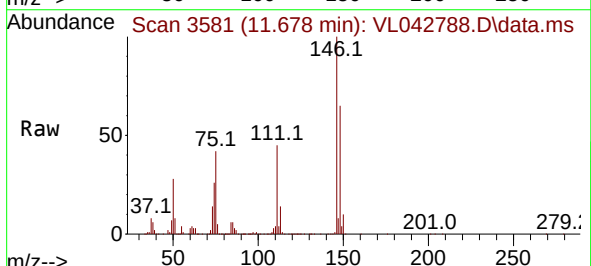
Tgt Ion:146 Resp: 359833

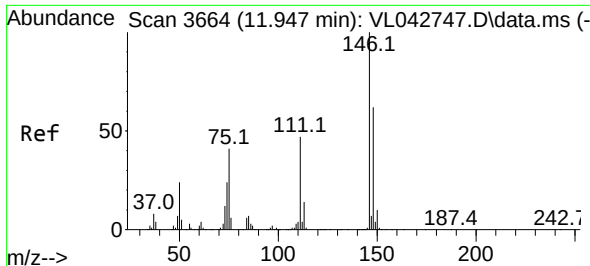
Ion Ratio Lower Upper

146 100

111 43.2 21.4 64.2

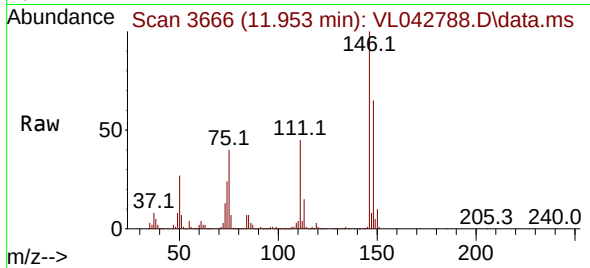
148 64.8 32.1 96.3





#77
1,2-Dichlorobenzene
Concen: 10.812 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

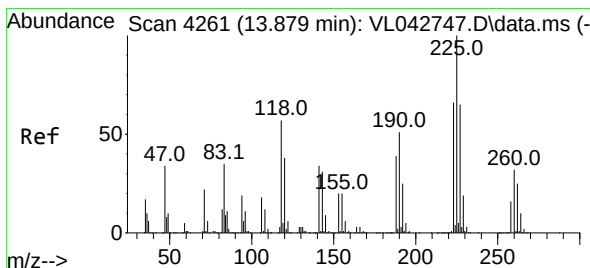
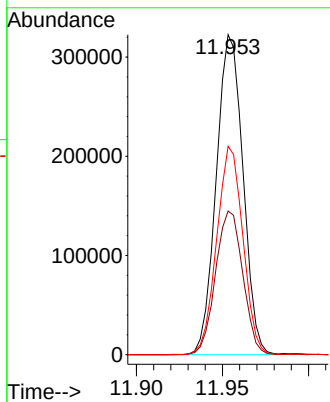
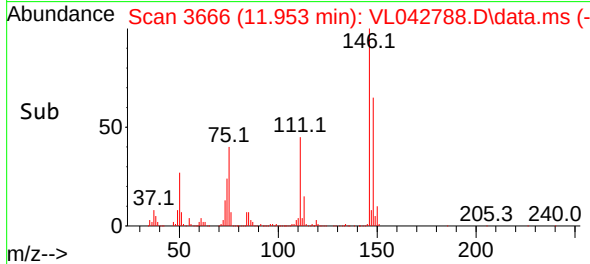
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



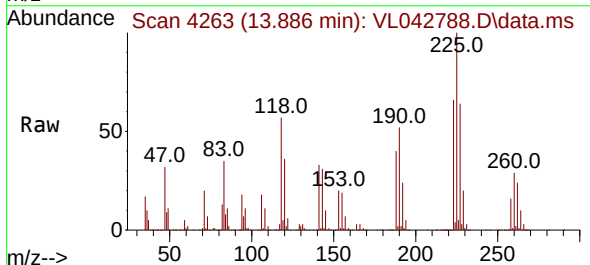
Tgt Ion:146 Resp: 348624
Ion Ratio Lower Upper
146 100
111 45.9 23.7 71.1
148 64.1 32.6 97.7

Manual Integrations
APPROVED

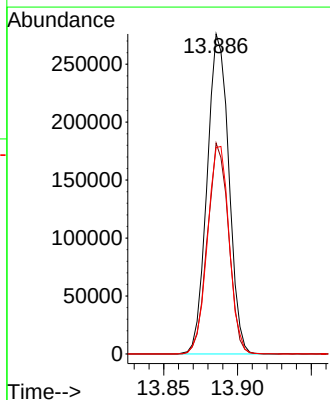
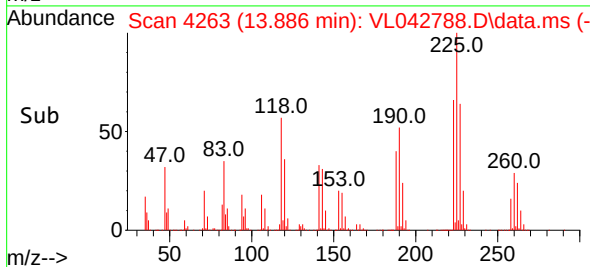
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

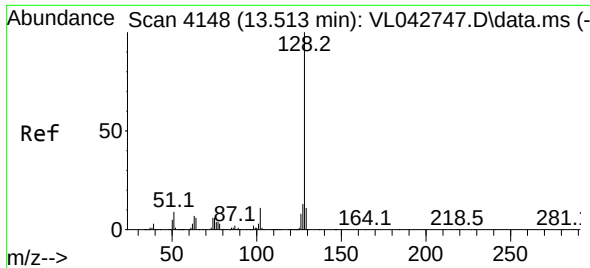


#78
Hexachloro-1,3-Butadiene
Concen: 9.673 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.007 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



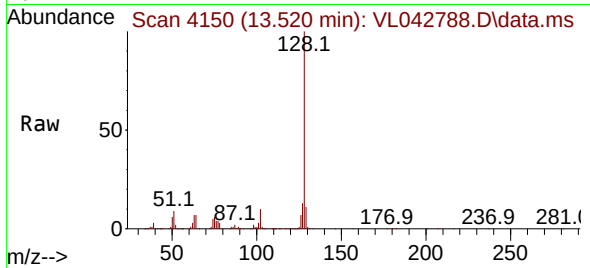
Tgt Ion:225 Resp: 282288
Ion Ratio Lower Upper
225 100
223 64.2 50.7 76.1
227 65.1 50.5 75.7





#79
Naphthalene
Concen: 11.014 ppbv
RT: 13.520 min Scan# 4148
Delta R.T. 0.007 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

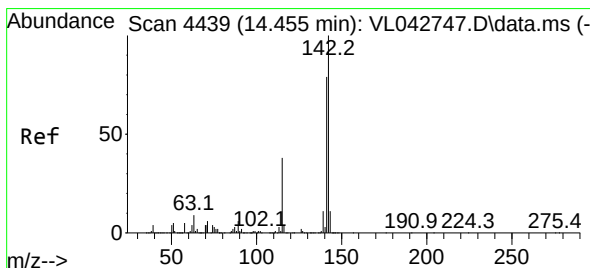
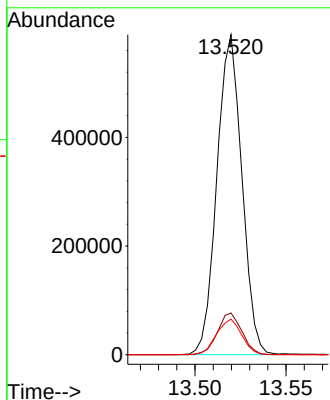
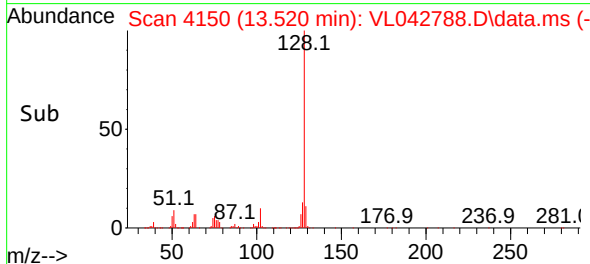
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



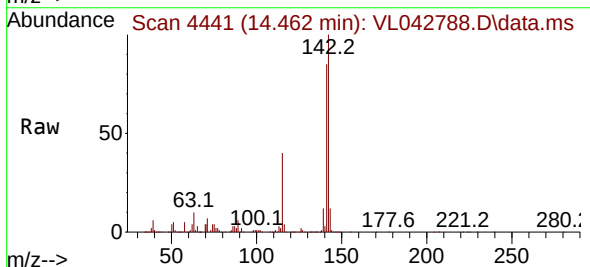
Tgt Ion:128 Resp: 561584
Ion Ratio Lower Upper
128 100
127 13.0 10.5 15.7
129 11.1 8.6 13.0

Manual Integrations
APPROVED

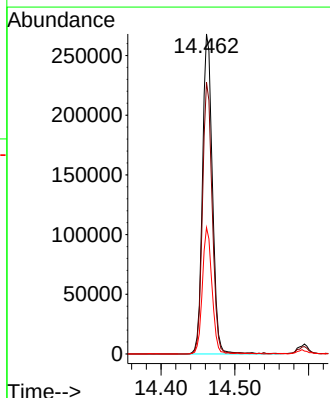
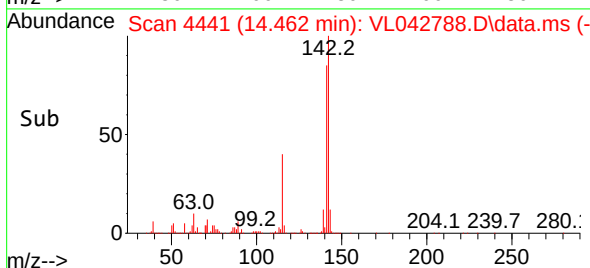
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

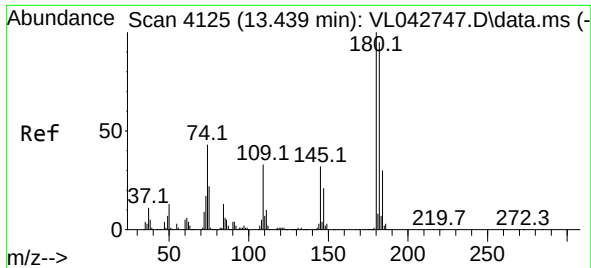


#80
Naphthalene,2-methyl-
Concen: 9.837 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37



Tgt Ion:142 Resp: 249243
Ion Ratio Lower Upper
142 100
141 83.7 65.8 98.8
115 38.5 31.2 46.8





#81

1,2,4-Trichlorobenzene

Concen: 10.987 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042788.D

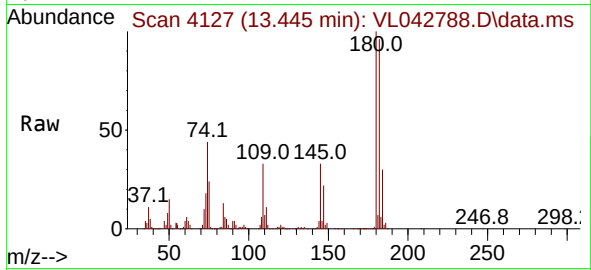
Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



Tgt Ion:180 Resp: 31483

Ion Ratio Lower Upper

180 100

182 94.7 76.2 114.2

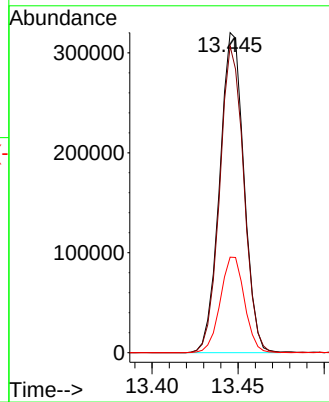
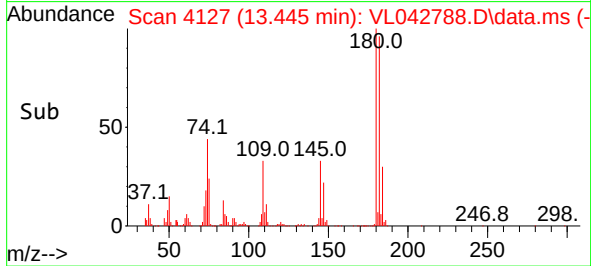
184 29.7 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042788.D
 Acq On : 31 Jul 2025 08:37
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 01 01:12:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	88	0.00
2 T	Dichlorodifluoromethane	1.322	1.259	4.8	92	0.00
3	Chlorodifluoromethane	1.722	1.763	-2.4	95	0.00
4	Chloromethane	0.535	0.500	6.5	90	0.00
5 T	Vinyl Chloride	0.528	0.464	12.1	99	0.00
6 T	Bromomethane	0.204	0.201	1.5	99	0.00
7	Chloroethane	0.204	0.187	8.3	93	0.00
8 T	Dichlorotetrafluoroethane	1.087	1.041	4.2	93	0.00
9 T	Propene	0.626	0.681	-8.8	101	0.00
10 T	Heptane	1.688	1.848	-9.5	99	0.02
11 T	Trichlorofluoromethane	1.363	1.244	8.7	89	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.036	0.994	4.1	93	0.00
13	Ethanol	0.083	0.052	37.3#	90	0.00
14 T	Bromoethene	0.367	0.353	3.8	92	0.00
15 T	Acetone	1.381	1.094	20.8	96	0.00
16 T	1,3-Butadiene	0.589	0.555	5.8	96	0.00
17	tert-Butyl alcohol	1.245	1.150	7.6	87	0.00
18 T	1,1-Dichloroethene	0.468	0.430	8.1	93	0.00
19 T	Isopropyl Alcohol	0.734	0.677	7.8	90	0.00
20 T	Methylene Chloride	0.435	0.373	14.3	97	0.00
21 T	Allyl Chloride	0.851	0.845	0.7	93	0.00
22 T	trans-1,2-Dichloroethene	0.503	0.484	3.8	92	0.00
23 T	Vinyl Acetate	1.674	2.050	-22.5	105	0.00
24 T	1,1-Dichloroethane	1.033	0.981	5.0	91	0.00
25 T	Ethyl Acetate	3.056	3.271	-7.0	97	0.00
26 T	Hexane	1.341	1.394	-4.0	95	0.00
27 T	Carbon Disulfide	1.148	1.189	-3.6	96	0.00
28 T	Methyl tert-Butyl Ether	0.633	0.632	0.2	100	0.00
29 T	Chloroform	2.072	2.165	-4.5	99	0.00
30 T	Cyclohexane	1.137	1.182	-4.0	92	0.01
31 T	cis-1,2-Dichloroethene	1.378	1.412	-2.5	95	0.00
32 T	1,1,1-Trichloroethane	2.158	2.126	1.5	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	85	0.01
34 T	2-Butanone	0.708	0.760	-7.3	97	0.00
35 T	Carbon Tetrachloride	0.743	0.793	-6.7	96	0.01
36 T	Benzene	0.948	1.000	-5.5	94	0.00
37 T	1,2-Dichloroethane	0.571	0.605	-6.0	95	0.00
38 T	Trichloroethene	0.455	0.455	0.0	94	0.02
39 T	1,2-Dichloropropane	0.350	0.367	-4.9	96	0.01
40 T	1,4-Dioxane	0.163	0.164	-0.6	98	0.02
41 T	Tetrahydrofuran	0.360	0.413	-14.7	97	0.00
42 T	Bromodichloromethane	0.744	0.827	-11.2	97	0.02
43	Methyl Methacrylate	0.337	0.385	-14.2	94	0.02
44 T	2,2,4-Trimethylpentane	1.545	1.721	-11.4	98	0.01
45 T	t-1,3-Dichloropropene	0.378	0.430	-13.8	91	0.02
46 T	cis-1,3-Dichloropropene	0.479	0.555	-15.9	93	0.02
47 T	1,1,2-Trichloroethane	0.373	0.396	-6.2	97	0.02
48 T	Dibromochloromethane	0.592	0.672	-13.5	95	0.02

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042788.D
 Acq On : 31 Jul 2025 08:37
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 01 01:12:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	0.516	0.596	-15.5	95	0.01
50 T	4-Methyl-2-Pentanone	0.912	1.013	-11.1	96	0.02
51 T	2-Hexanone	0.690	0.812	-17.7	95	0.02
52 T	Tetrachloroethene	0.393	0.366	6.9	91	0.00
53 T	Toluene	1.018	1.124	-10.4	93	0.02
54 T	1,2-Dibromoethane	0.527	0.584	-10.8	96	0.02
55 I	Chlorobenzene-d5	1.000	1.000	0.0	82	0.01
56	1,1,1,2-Tetrachloroethane	0.520	0.569	-9.4	96	0.01
57 T	Chlorobenzene	0.968	1.012	-4.5	94	0.01
58 T	Ethyl Benzene	1.579	1.780	-12.7	94	0.00
59 T	m/p-Xylene	1.262	1.455	-15.3	97	0.00
60 T	o-Xylene	1.261	1.439	-14.1	96	0.00
61 T	Styrene	0.531	0.623	-17.3	91	0.01
62	Isopropylbenzene	1.860	2.071	-11.3	95	0.00
63 T	1,1,2,2-Tetrachloroethane	0.810	0.843	-4.1	100	0.00
64	n-propylbenzene	0.485	0.561	-15.7	98	0.00
65	tert-Butylbenzene	1.652	1.853	-12.2	95	0.00
66 T	Benzyl Chloride	0.136	0.188	-38.2#	97	0.00
67	sec-Butylbenzene	2.350	2.619	-11.4	96	0.00
68 S	1-Bromo-4-Fluorobenzene	0.792	0.815	-2.9	83	0.01
69	p-Isopropyltoluene	1.916	2.207	-15.2	94	0.00
70	n-Butylbenzene	1.851	2.253	-21.7	95	0.00
71	2-Chlorotoluene	1.426	1.598	-12.1	95	0.00
72 T	4-Ethyltoluene	1.506	1.769	-17.5	95	0.00
73 T	1,3,5-Trimethylbenzene	1.240	1.462	-17.9	94	0.00
74 T	1,2,4-Trimethylbenzene	1.353	1.627	-20.3	96	0.00
75 T	1,3-Dichlorobenzene	0.948	1.048	-10.5	97	0.00
76 T	1,4-Dichlorobenzene	0.928	1.040	-12.1	95	0.00
77 T	1,2-Dichlorobenzene	0.932	1.008	-8.2	97	0.00
78 T	Hexachloro-1,3-Butadiene	0.844	0.816	3.3	94	0.00
79 T	Naphthalene	0.958	1.624	-69.5#	94	0.00
80 T	Naphthalene,2-methyl-	0.326	0.721	-121.2#	86	0.00
81 T	1,2,4-Trichlorobenzene	0.635	0.910	-43.3#	93	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042788.D
 Acq On : 31 Jul 2025 08:37
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 01 01:12:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	88	0.00
2 T	Dichlorodifluoromethane	10.000	9.525	4.7	92	0.00
3	Chlorodifluoromethane	10.000	10.235	-2.3	95	0.00
4	Chloromethane	10.000	9.341	6.6	90	0.00
5 T	Vinyl Chloride	10.000	8.781	12.2	99	0.00
6 T	Bromomethane	10.000	9.837	1.6	99	0.00
7	Chloroethane	10.000	9.160	8.4	93	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.571	4.3	93	0.00
9 T	Propene	10.000	10.882	-8.8	101	0.00
10 T	Heptane	10.000	10.950	-9.5	99	0.02
11 T	Trichlorofluoromethane	10.000	9.128	8.7	89	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.600	4.0	93	0.00
13	Ethanol	10.000	10.150	-1.5	90	0.00
14 T	Bromoethene	10.000	9.639	3.6	92	0.00
15 T	Acetone	10.000	7.924	20.8	96	0.00
16 T	1,3-Butadiene	10.000	9.425	5.7	96	0.00
17	tert-Butyl alcohol	10.000	9.237	7.6	87	0.00
18 T	1,1-Dichloroethene	10.000	9.195	8.0	93	0.00
19 T	Isopropyl Alcohol	10.000	9.229	7.7	90	0.00
20 T	Methylene Chloride	10.000	8.566	14.3	97	0.00
21 T	Allyl Chloride	10.000	9.930	0.7	93	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.614	3.9	92	0.00
23 T	Vinyl Acetate	10.000	12.247	-22.5	105	0.00
24 T	1,1-Dichloroethane	10.000	9.496	5.0	91	0.00
25 T	Ethyl Acetate	10.000	10.702	-7.0	97	0.00
26 T	Hexane	10.000	10.399	-4.0	95	0.00
27 T	Carbon Disulfide	10.000	10.356	-3.6	96	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.982	0.2	100	0.00
29 T	Chloroform	10.000	10.451	-4.5	99	0.00
30 T	Cyclohexane	10.000	10.398	-4.0	92	0.01
31 T	cis-1,2-Dichloroethene	10.000	10.250	-2.5	95	0.00
32 T	1,1,1-Trichloroethane	10.000	9.850	1.5	95	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	85	0.01
34 T	2-Butanone	10.000	10.726	-7.3	97	0.00
35 T	Carbon Tetrachloride	10.000	10.672	-6.7	96	0.01
36 T	Benzene	10.000	10.548	-5.5	94	0.00
37 T	1,2-Dichloroethane	10.000	10.592	-5.9	95	0.00
38 T	Trichloroethene	10.000	9.991	0.1	94	0.02
39 T	1,2-Dichloropropane	10.000	10.505	-5.1	96	0.01
40 T	1,4-Dioxane	10.000	10.049	-0.5	98	0.02
41 T	Tetrahydrofuran	10.000	11.447	-14.5	97	0.00
42 T	Bromodichloromethane	10.000	11.125	-11.3	97	0.02
43	Methyl Methacrylate	10.000	11.418	-14.2	94	0.02
44 T	2,2,4-Trimethylpentane	10.000	11.142	-11.4	98	0.01
45 T	t-1,3-Dichloropropene	10.000	11.393	-13.9	91	0.02
46 T	cis-1,3-Dichloropropene	10.000	11.589	-15.9	93	0.02
47 T	1,1,2-Trichloroethane	10.000	10.618	-6.2	97	0.02
48 T	Dibromochloromethane	10.000	11.346	-13.5	95	0.02

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042788.D
 Acq On : 31 Jul 2025 08:37
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 01 01:12:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	11.551	-15.5	95	0.01
50 T	4-Methyl-2-Pentanone	10.000	11.101	-11.0	96	0.02
51 T	2-Hexanone	10.000	11.778	-17.8	95	0.02
52 T	Tetrachloroethene	10.000	9.319	6.8	91	0.00
53 T	Toluene	10.000	11.044	-10.4	93	0.02
54 T	1,2-Dibromoethane	10.000	11.078	-10.8	96	0.02
55 I	Chlorobenzene-d5	10.000	10.000	0.0	82	0.01
56	1,1,1,2-Tetrachloroethane	10.000	10.944	-9.4	96	0.01
57 T	Chlorobenzene	10.000	10.455	-4.6	94	0.01
58 T	Ethyl Benzene	10.000	11.272	-12.7	94	0.00
59 T	m/p-Xylene	20.000	23.053	-15.3	97	0.00
60 T	o-Xylene	10.000	11.414	-14.1	96	0.00
61 T	Styrene	10.000	11.742	-17.4	91	0.01
62	Isopropylbenzene	10.000	11.132	-11.3	95	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	10.413	-4.1	100	0.00
64	n-propylbenzene	10.000	11.563	-15.6	98	0.00
65	tert-Butylbenzene	10.000	11.215	-12.1	95	0.00
66 T	Benzyl Chloride	10.000	13.854	-38.5#	97	0.00
67	sec-Butylbenzene	10.000	11.144	-11.4	96	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.295	-2.9	83	0.01
69	p-Isopropyltoluene	10.000	11.517	-15.2	94	0.00
70	n-Butylbenzene	10.000	12.171	-21.7	95	0.00
71	2-Chlorotoluene	10.000	11.203	-12.0	95	0.00
72 T	4-Ethyltoluene	10.000	11.745	-17.4	95	0.00
73 T	1,3,5-Trimethylbenzene	10.000	11.791	-17.9	94	0.00
74 T	1,2,4-Trimethylbenzene	10.000	12.030	-20.3	96	0.00
75 T	1,3-Dichlorobenzene	10.000	11.049	-10.5	97	0.00
76 T	1,4-Dichlorobenzene	10.000	11.209	-12.1	95	0.00
77 T	1,2-Dichlorobenzene	10.000	10.812	-8.1	97	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.673	3.3	94	0.00
79 T	Naphthalene	10.000	11.014	-10.1	94	0.00
80 T	Naphthalene,2-methyl-	10.000	9.837	1.6	86	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.987	-9.9	93	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



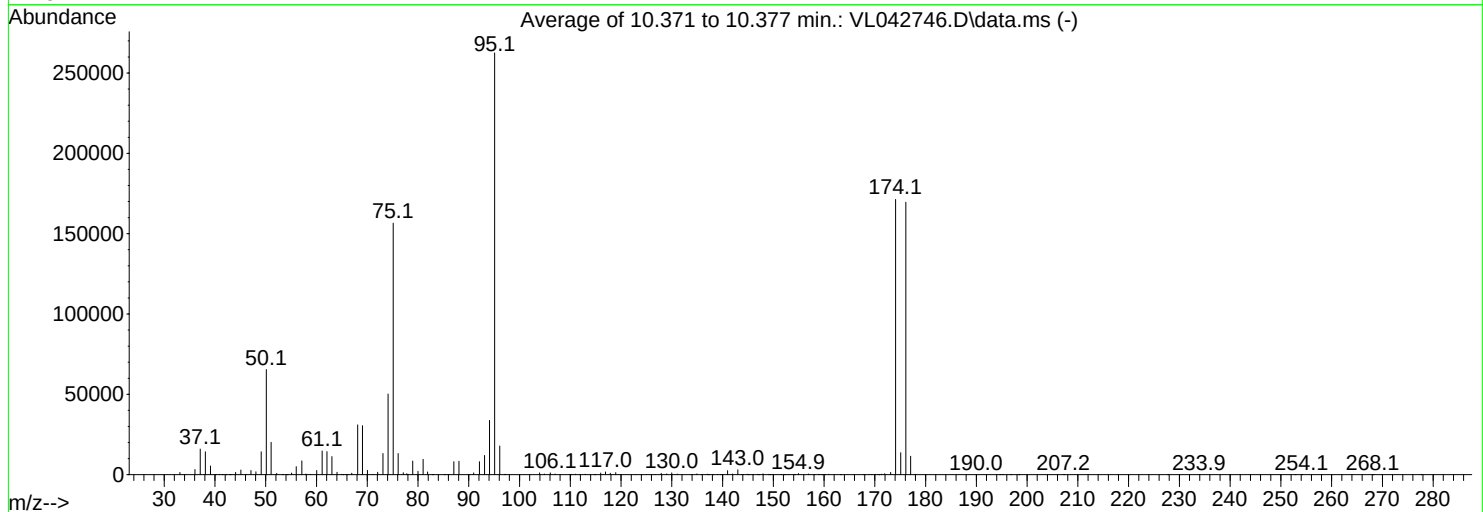
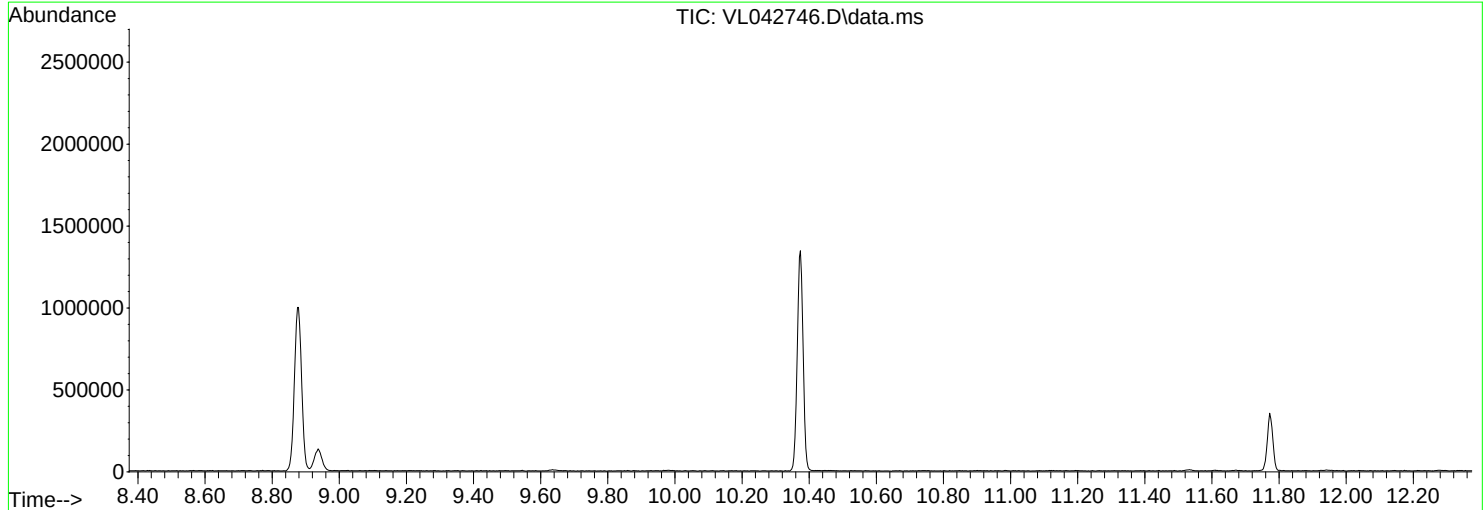
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042746.D
Acq On : 23 Jul 2025 08:00
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\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Jul 24 05:24:41 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3150

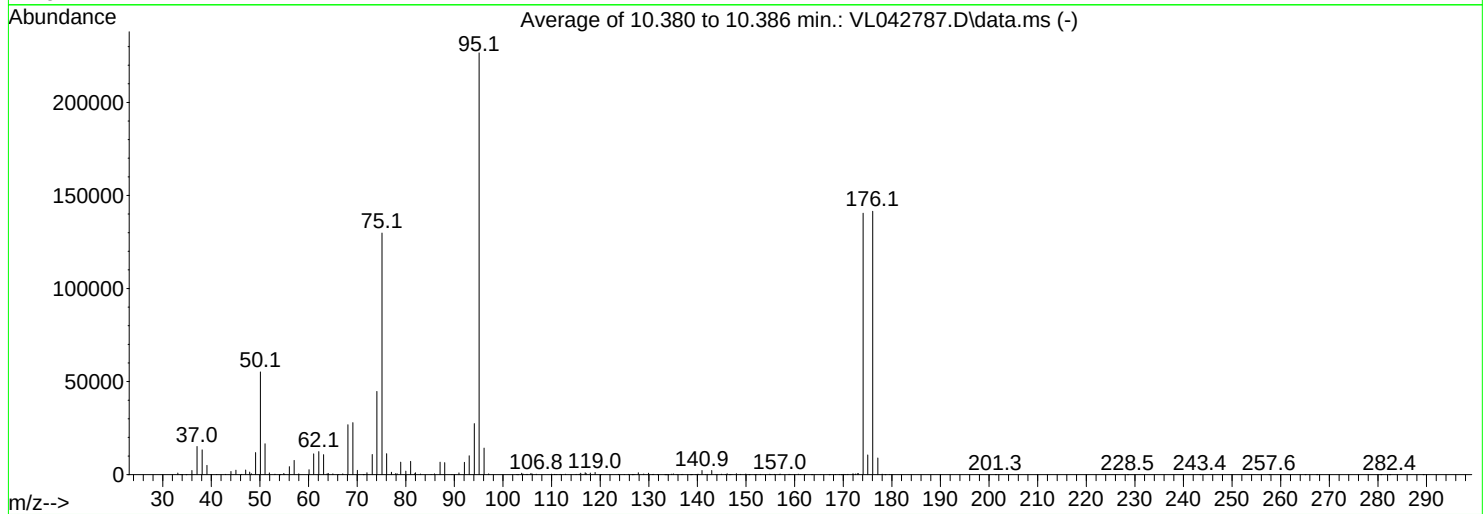
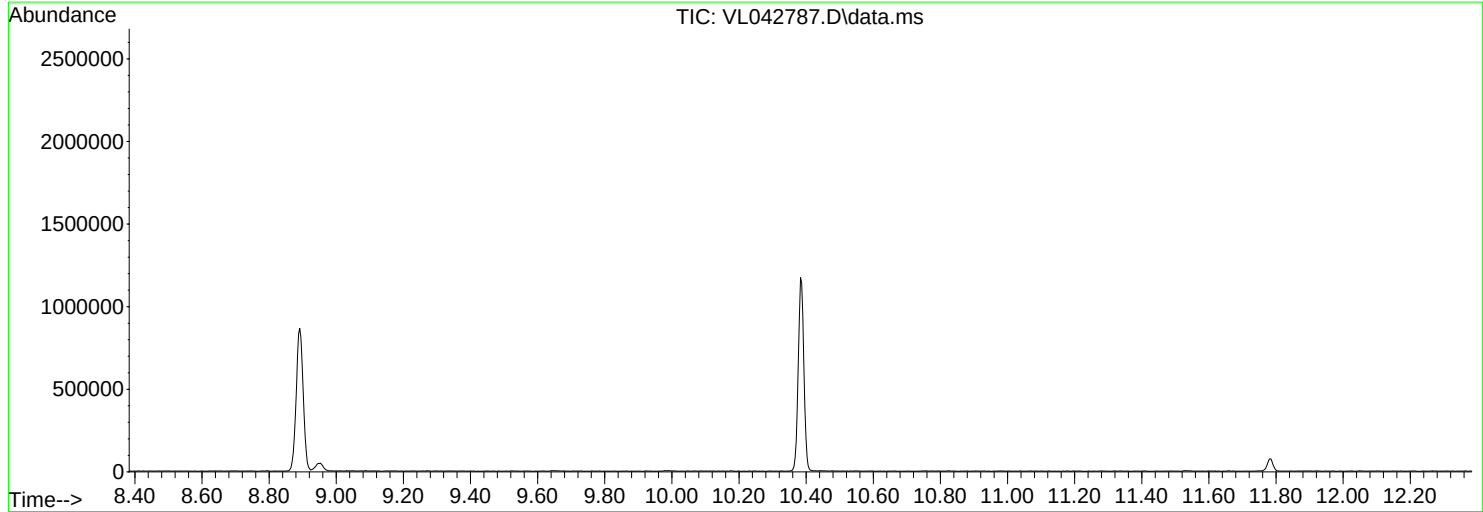
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.9	65392	PASS
75	95	30	66	59.7	156629	PASS
95	95	100	100	100.0	262571	PASS
96	95	5	9	6.8	17820	PASS
173	174	0.00	2	0.8	1428	PASS
174	95	50	120	65.3	171349	PASS
175	174	4	9	8.0	13693	PASS
176	174	93	101	99.0	169621	PASS
177	176	5	9	6.7	11431	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
Data File : VL042787.D
Acq On : 31 Jul 2025 07:46
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Jul 24 05:24:41 2025



AutoFind: Scans 3180, 3181, 3182; Background Corrected with Scan 3165

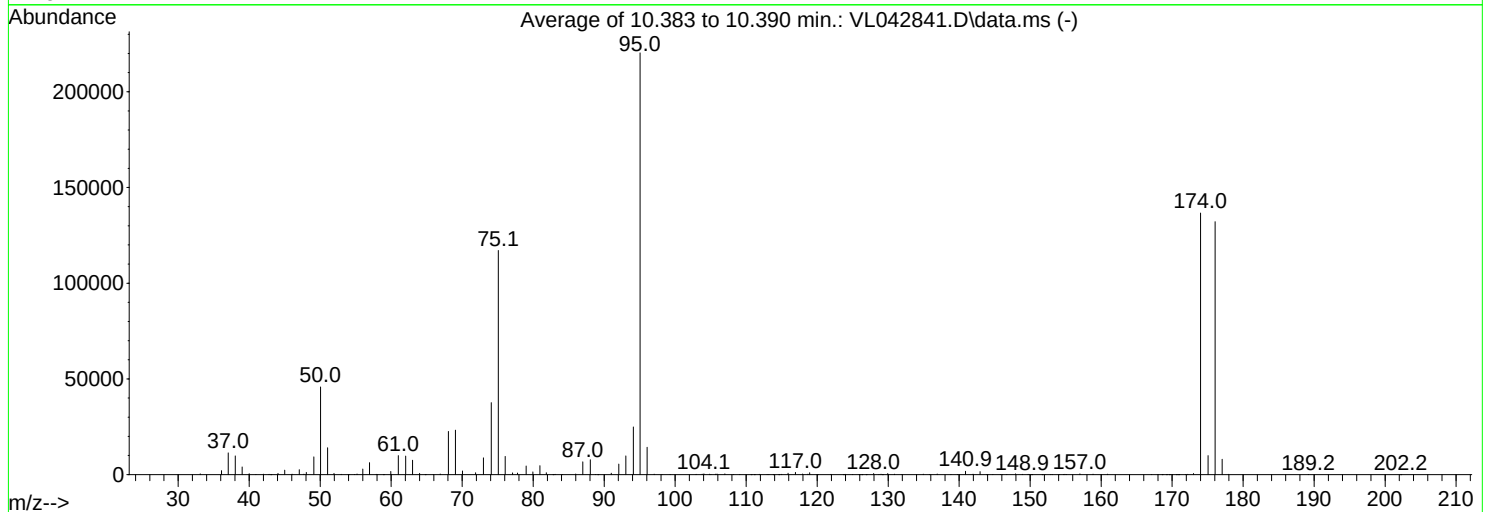
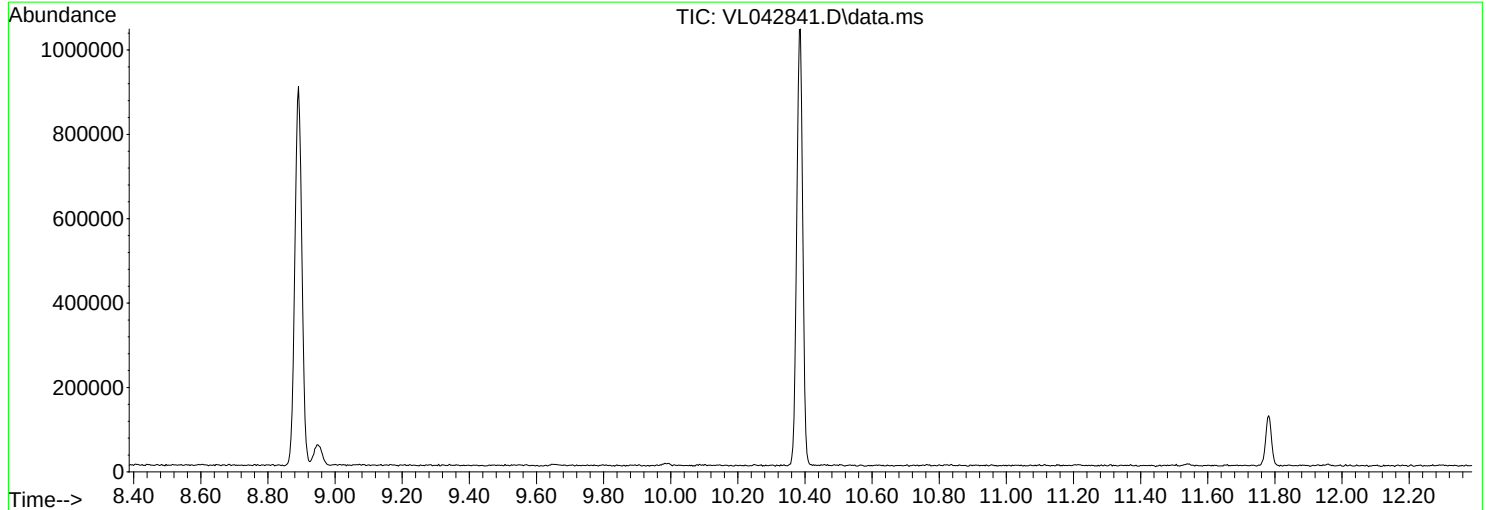
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.3	55155	PASS
75	95	30	66	57.3	129853	PASS
95	95	100	100	100.0	226624	PASS
96	95	5	9	6.3	14293	PASS
173	174	0.00	2	0.4	628	PASS
174	95	50	120	62.0	140456	PASS
175	174	4	9	7.5	10600	PASS
176	174	93	101	100.7	141471	PASS
177	176	5	9	6.3	8945	PASS

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABL01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042789.D	1		07/31/25 09:29	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-45-6	Chlorodifluoromethane	0.12	0.42	U	0.42	1.77	ug/m3
75-71-8	Dichlorodifluoromethane	0.11	0.54	U	0.54	2.47	ug/m3
64-17-5	Ethanol	0.32	0.60	U	0.60	0.94	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
141-78-6	Ethyl Acetate	0.12	0.48	U	0.48	1.98	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.080	0.24	U	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.17	0.96	U	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
593-60-2	Bromoethene	0.20	0.87	U	0.87	2.19	ug/m3
115-07-1	Propene	0.080	0.14	U	0.14	0.86	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	ug/m3
67-63-0	Isopropyl Alcohol	0.23	0.57	U	0.57	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	0.18	0.43	U	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	0.080	0.25	U	0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	0.23	0.80	U	0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
108-05-4	Vinyl Acetate	0.26	0.94	U	0.94	1.80	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.060	0.18	U	0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.030	0.19	U	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.10	0.49	U	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.080	0.26	U	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABL01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042789.D	1		07/31/25 09:29	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.16	0.60	U	0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3
591-78-6	2-Hexanone	0.11	0.45	U	0.45	2.04	ug/m3
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
1330-20-7	Total Xylenes	0.62	2.69	U	2.69	6.52	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.16	0.68	U	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
98-82-8	Isopropylbenzene	0.16	0.79	U	0.79	2.46	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	0.16	0.56	U	0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
100-44-7	Benzyl Chloride	0.090	0.47	U	0.47	2.59	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABL01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042789.D	1		07/31/25 09:29	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	140000		2.793			
540-36-3	1,4-Difluorobenzene	390000		3.965			
3114-55-4	Chlorobenzene-d5	341000		8.891			

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\VL073125\
 Data File : VL042789.D
 Acq On : 31 Jul 2025 09:29
 Operator : SY/MD
 Sample : VL0731ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABL01

Quant Time: Aug 01 01:12:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	139538	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	390208	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	340795	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	265127	9.824	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%

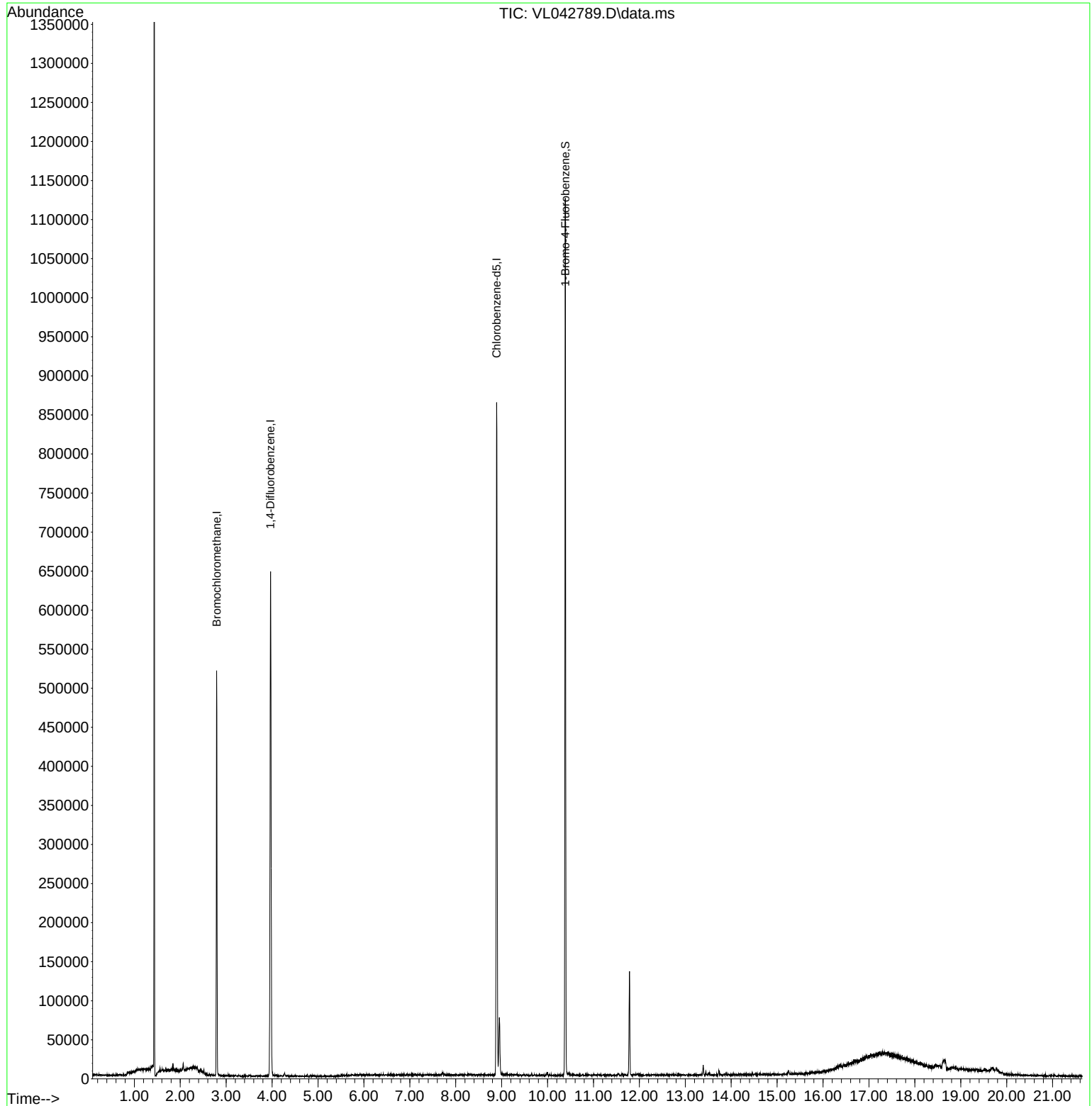
Target Compounds	Qvalue

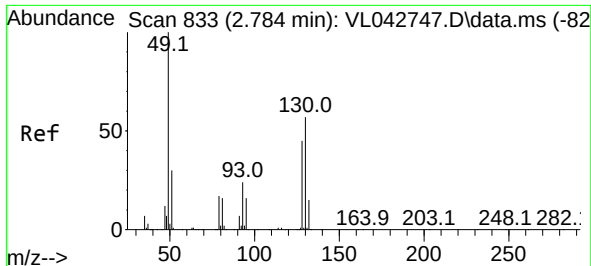
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL042789.D
Acq On : 31 Jul 2025 09:29
Operator : SY/MD
Sample : VL0731ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABL01

Quant Time: Aug 01 01:12:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

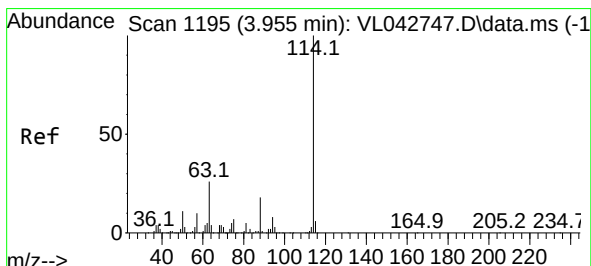
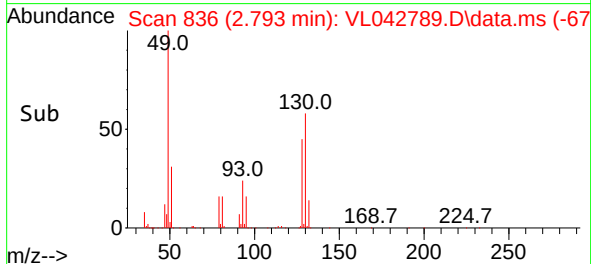
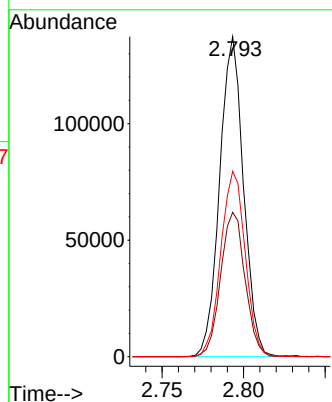
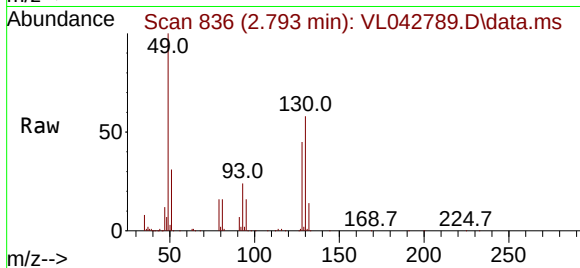




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

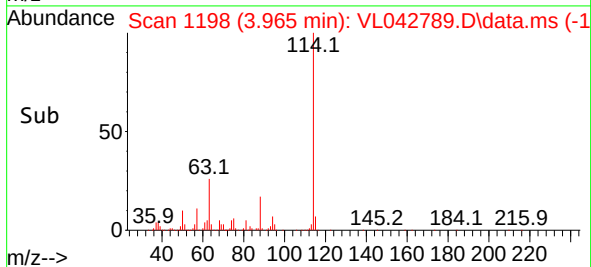
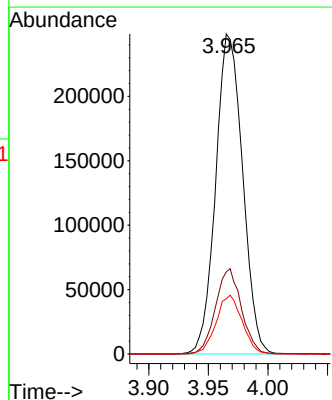
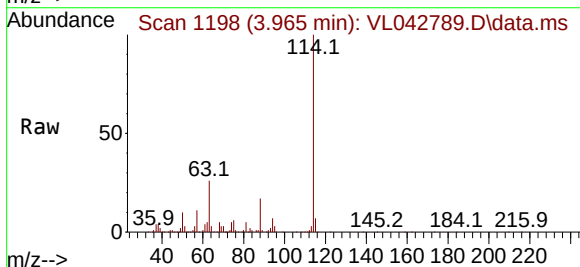
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABL01

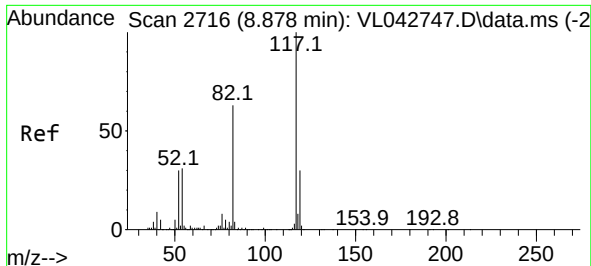
Tgt Ion: 49 Resp: 139538
Ion Ratio Lower Upper
49 100
128 46.3 23.6 71.0
130 59.4 30.3 90.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.010 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

Tgt Ion: 114 Resp: 390208
Ion Ratio Lower Upper
114 100
63 25.6 20.5 30.7
88 17.7 14.0 21.0

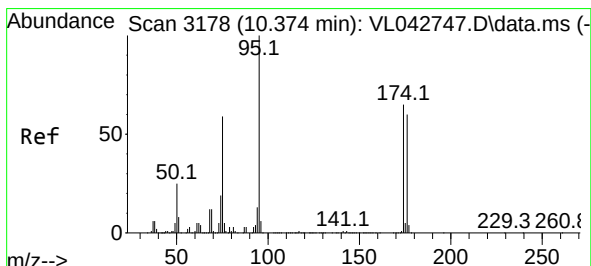
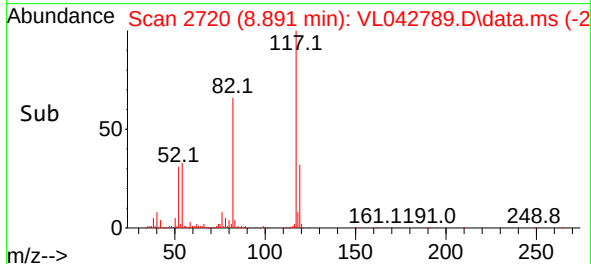
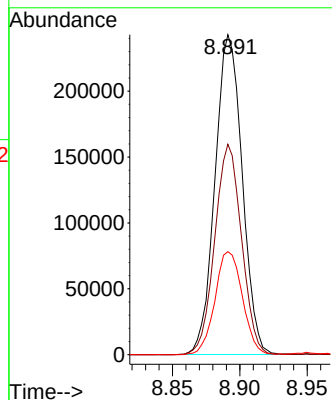
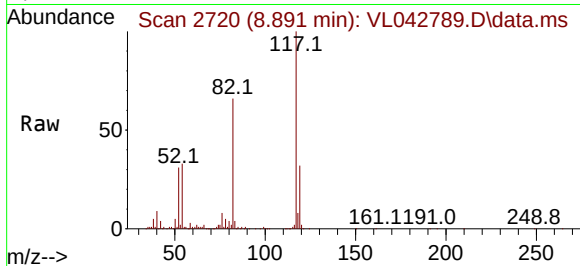




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

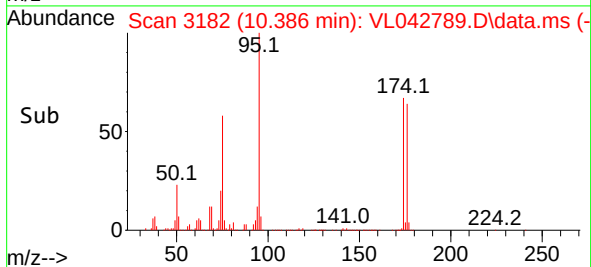
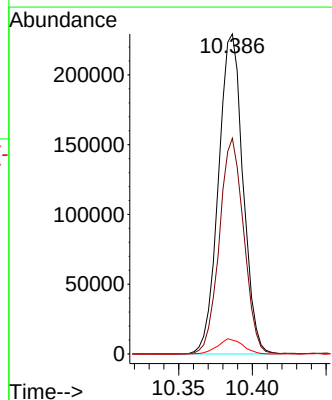
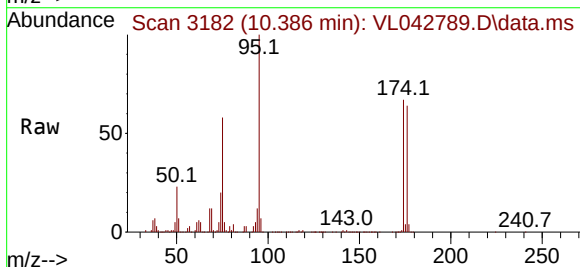
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABL01

Tgt Ion:117 Resp: 340795
Ion Ratio Lower Upper
117 100
82 65.0 53.3 79.9
119 32.6 25.8 38.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.824 ppbv
RT: 10.386 min Scan# 3182
Delta R.T. 0.013 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

Tgt Ion: 95 Resp: 265127
Ion Ratio Lower Upper
95 100
174 67.0 53.8 80.6
175 4.9 4.0 6.0



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0813ABL01	SDG No.:	Q2727
Lab Sample ID:	VL0813ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042850.D	1		08/13/25 13:46	VL081325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-45-6	Chlorodifluoromethane	0.12	0.42	U	0.42	1.77	ug/m3
75-71-8	Dichlorodifluoromethane	0.11	0.54	U	0.54	2.47	ug/m3
64-17-5	Ethanol	0.32	0.60	U	0.60	0.94	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
141-78-6	Ethyl Acetate	0.12	0.48	U	0.48	1.98	ug/m3
74-83-9	Bromomethane	0.080	0.31	U	0.31	1.94	ug/m3
75-00-3	Chloroethane	0.15	0.40	U	0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.080	0.24	U	0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.17	0.96	U	0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1.05	3.49	ug/m3
593-60-2	Bromoethene	0.20	0.87	U	0.87	2.19	ug/m3
115-07-1	Propene	0.080	0.14	U	0.14	0.86	ug/m3
75-65-0	tert-Butyl alcohol	0.16	0.49	U	0.49	1.52	ug/m3
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	ug/m3
67-63-0	Isopropyl Alcohol	0.23	0.57	U	0.57	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
67-64-1	Acetone	0.18	0.43	U	0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	0.080	0.25	U	0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	0.83	1.80	ug/m3
75-09-2	Methylene Chloride	0.23	0.80	U	0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
108-05-4	Vinyl Acetate	0.26	0.94	U	0.94	1.80	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.060	0.18	U	0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.030	0.19	U	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
67-66-3	Chloroform	0.10	0.49	U	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.080	0.26	U	0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0813ABL01	SDG No.:	Q2727
Lab Sample ID:	VL0813ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042850.D	1		08/13/25 13:46	VL081325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
78-87-5	1,2-Dichloropropane	0.13	0.60	U	0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	0.060	0.40	U	0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	0.41	2.05	ug/m3
108-88-3	Toluene	0.16	0.60	U	0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	0.44	2.73	ug/m3
591-78-6	2-Hexanone	0.11	0.45	U	0.45	2.04	ug/m3
124-48-1	Dibromochloromethane	0.090	0.77	U	0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.090	0.69	U	0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
1330-20-7	Total Xylenes	0.62	2.69	U	2.69	6.52	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
100-42-5	Styrene	0.16	0.68	U	0.68	2.13	ug/m3
75-25-2	Bromoform	0.050	0.52	U	0.52	5.17	ug/m3
98-82-8	Isopropylbenzene	0.16	0.79	U	0.79	2.46	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.17	0.88	U	0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	0.050	0.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	U	1.03	2.46	ug/m3
110-54-3	Hexane	0.16	0.56	U	0.56	1.76	ug/m3
107-05-1	Allyl Chloride	0.11	0.34	U	0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	0.22	0.79	U	0.79	1.80	ug/m3
100-44-7	Benzyl Chloride	0.090	0.47	U	0.47	2.59	ug/m3
80-62-6	Methyl Methacrylate	0.14	0.57	U	0.57	2.05	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0813ABL01	SDG No.:	Q2727
Lab Sample ID:	VL0813ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042850.D	1		08/13/25 13:46	VL081325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	120000		2.793			
540-36-3	1,4-Difluorobenzene	373000		3.968			
3114-55-4	Chlorobenzene-d5	325000		8.891			

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\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

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%

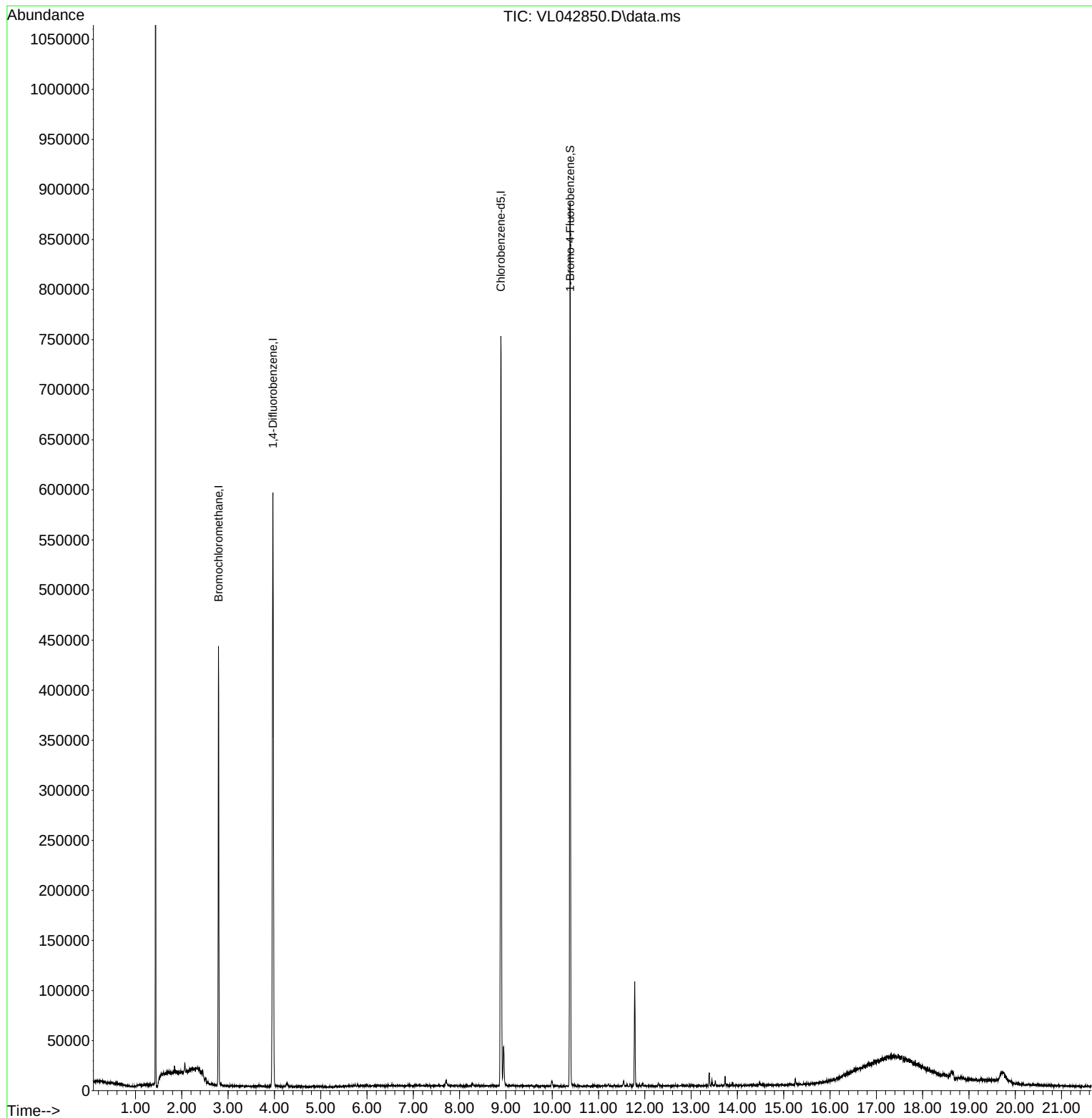
Target Compounds	Qvalue

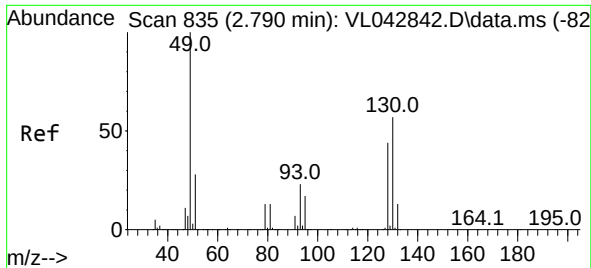
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

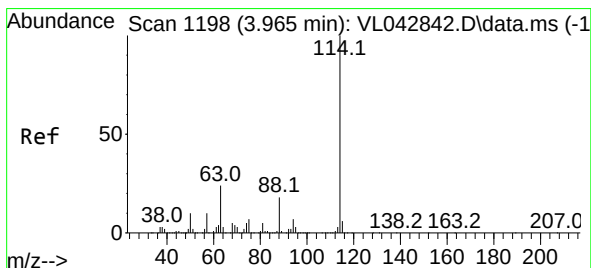
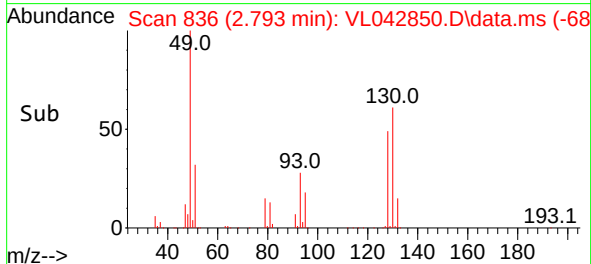
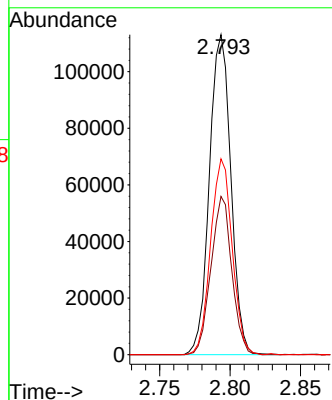
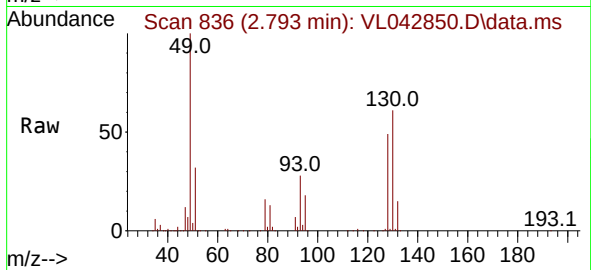




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042850.D
Acq: 13 Aug 2025 13:46

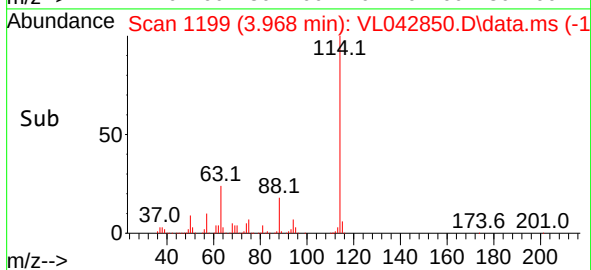
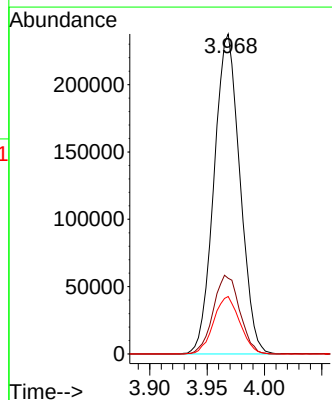
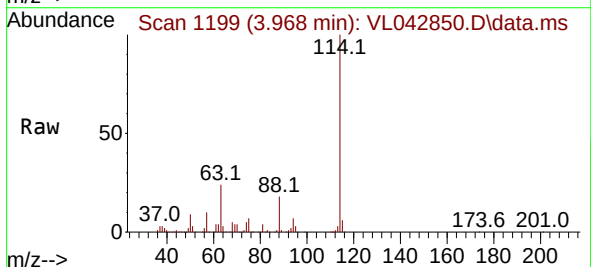
Instrument :
MSVOA_1
ClientSampleId :
VL0813ABL01

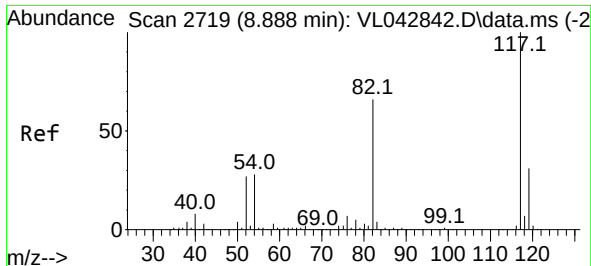
Tgt Ion: 49 Resp: 119946
Ion Ratio Lower Upper
49 100
128 48.0 23.7 71.1
130 61.5 30.6 91.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.003 min
Lab File: VL042850.D
Acq: 13 Aug 2025 13:46

Tgt Ion: 114 Resp: 373094
Ion Ratio Lower Upper
114 100
63 25.1 19.7 29.5
88 18.2 14.4 21.6

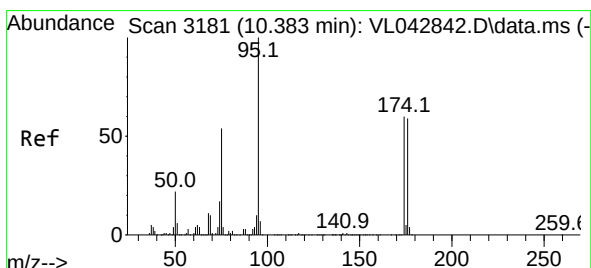
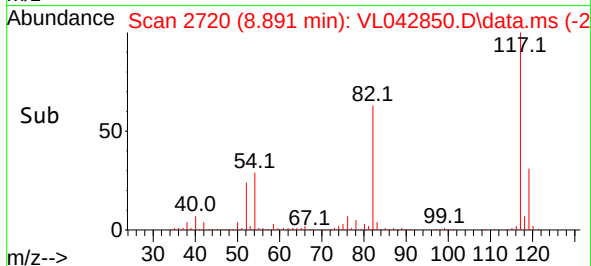
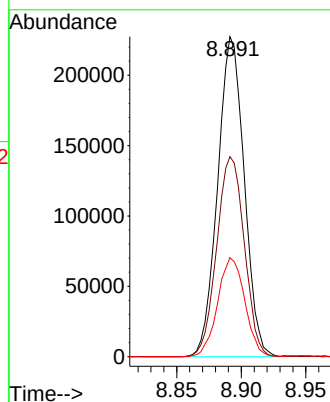
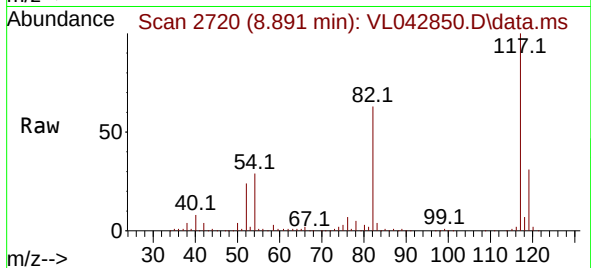




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042850.D
Acq: 13 Aug 2025 13:46

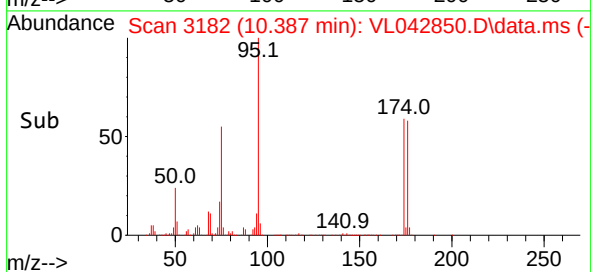
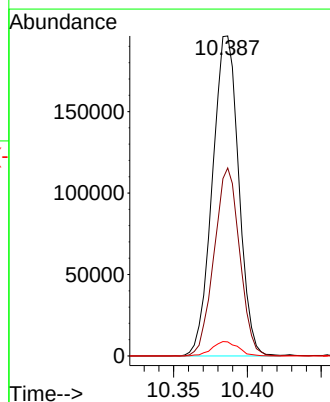
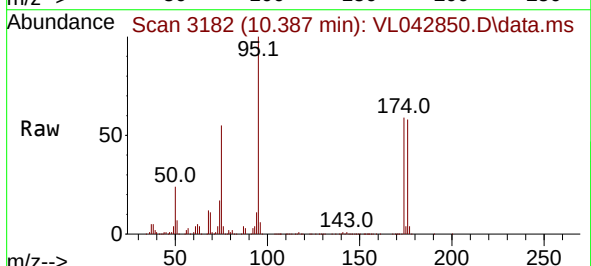
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABL01

Tgt Ion:117 Resp: 324853
Ion Ratio Lower Upper
117 100
82 64.9 54.6 81.8
119 31.9 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.006 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.003 min
Lab File: VL042850.D
Acq: 13 Aug 2025 13:46

Tgt Ion: 95 Resp: 243776
Ion Ratio Lower Upper
95 100
174 57.2 48.4 72.6
175 4.5 3.8 5.8



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABS01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042790.D	1		07/31/25 10:15	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-45-6	Chlorodifluoromethane	10.0	35.4		0.42	1.77	ug/m3
75-71-8	Dichlorodifluoromethane	9.60	47.5		0.54	2.47	ug/m3
64-17-5	Ethanol	8.70	16.4		0.60	0.94	ug/m3
74-87-3	Chloromethane	9.80	20.2		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	8.50	21.7		0.080	0.080	ug/m3
141-78-6	Ethyl Acetate	10.5	41.7		0.48	1.98	ug/m3
74-83-9	Bromomethane	9.00	35.0		0.31	1.94	ug/m3
75-00-3	Chloroethane	8.80	23.2		0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	11.4	33.6		0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	9.30	52.3		0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	9.40	72.0		1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.40	65.7		1.05	3.49	ug/m3
593-60-2	Bromoethene	9.50	41.5		0.87	2.19	ug/m3
115-07-1	Propene	9.90	17.0		0.14	0.86	ug/m3
75-65-0	tert-Butyl alcohol	9.00	27.3		0.49	1.52	ug/m3
142-82-5	Heptane	10.7	43.9		0.70	2.05	ug/m3
67-63-0	Isopropyl Alcohol	8.80	21.6		0.57	1.23	ug/m3
75-35-4	1,1-Dichloroethene	9.00	35.7		0.59	1.98	ug/m3
67-64-1	Acetone	7.60	18.1		0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	10.2	31.8		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	9.70	35.0		0.83	1.80	ug/m3
75-09-2	Methylene Chloride	8.40	29.2		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.50	37.7		0.48	1.98	ug/m3
108-05-4	Vinyl Acetate	11.5	41.4		0.94	1.80	ug/m3
75-34-3	1,1-Dichloroethane	9.40	38.0		0.53	2.02	ug/m3
110-82-7	Cyclohexane	10.3	35.5		0.76	1.72	ug/m3
78-93-3	2-Butanone	10.8	31.9		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	10.7	67.3		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	10.0	39.6		0.40	1.98	ug/m3
67-66-3	Chloroform	10.3	50.3		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.60	52.4		0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	11.1	51.9		0.65	2.34	ug/m3
71-43-2	Benzene	10.5	33.5		0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	10.6	42.9		0.36	2.02	ug/m3
79-01-6	Trichloroethene	9.80	52.7		0.11	0.16	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABS01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042790.D	1		07/31/25 10:15	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
78-87-5	1,2-Dichloropropane	10.5	48.5		0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	11.1	74.4		0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	11.3	46.3		0.41	2.05	ug/m3
108-88-3	Toluene	11.0	41.5		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	11.2	50.9		0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	11.1	50.4		0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10.6	57.8		0.44	2.73	ug/m3
591-78-6	2-Hexanone	11.9	48.7		0.45	2.04	ug/m3
124-48-1	Dibromochloromethane	11.3	96.3		0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	10.9	83.8		0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	9.50	64.4		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	10.4	47.9		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	11.1	48.2		0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	22.8	99.0		1.78	4.34	ug/m3
1330-20-7	Total Xylenes	34.0	148		2.69	6.52	ug/m3
95-47-6	o-Xylene	11.2	48.6		0.91	2.17	ug/m3
100-42-5	Styrene	11.4	48.5		0.68	2.13	ug/m3
75-25-2	Bromoform	11.4	118		0.52	5.17	ug/m3
98-82-8	Isopropylbenzene	11.0	54.1		0.79	2.46	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	10.2	70.0		0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	11.2	58.0		0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	11.9	58.5		0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	12.1	59.5		0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	10.9	65.5		0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	11.3	67.9		0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	10.8	64.9		0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	10.6	78.7		1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	9.50	101		1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	9.00	19.9		0.11	1.11	ug/m3
91-20-3	Naphthalene	10.5	55.0		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	11.7	57.5		1.03	2.46	ug/m3
110-54-3	Hexane	10.3	36.3		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	9.80	30.7		0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	8.60	31.0		0.79	1.80	ug/m3
100-44-7	Benzyl Chloride	13.4	69.4		0.47	2.59	ug/m3
80-62-6	Methyl Methacrylate	11.5	47.1		0.57	2.05	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABS01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042790.D	1		07/31/25 10:15	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	141000		2.794			
540-36-3	1,4-Difluorobenzene	391000		3.965			
3114-55-4	Chlorobenzene-d5	350000		8.892			

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\VL073125\
 Data File : VL042790.D
 Acq On : 31 Jul 2025 10:15
 Operator : SY/MD
 Sample : VL0731ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/01/2025
 Supervised By : Mahesh Dadoda 08/01/2025

Quant Time: Aug 01 01:13:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 1 2025

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	140975	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	391458	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	349880	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.384 95 284130 10.254 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	179092	9.608	ppbv	98
3) Chlorodifluoromethane	1.476	51	243995	10.049	ppbv	99
4) Chloromethane	1.535	50	73605	9.761	ppbv	95
5) Vinyl Chloride	1.583	62	63029	8.460	ppbv	92
6) Bromomethane	1.671	94	25942	9.007	ppbv	99
7) Chloroethane	1.706	64	25445	8.839	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	144815	9.447	ppbv	98
9) Propene	1.486	41	87288	9.891	ppbv	100
10) Heptane	4.991	43	255178	10.724	ppbv	98
11) Trichlorofluoromethane	1.881	101	178945	9.314	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	137912	9.446	ppbv	99
13) Ethanol	1.722	45	6331	8.701	ppbv	97
14) Bromoethene	1.784	108	49330	9.543	ppbv	99
15) Acetone	1.839	43	147760	7.590	ppbv	99
16) 1,3-Butadiene	1.612	39	74826	9.012	ppbv	98
17) tert-Butyl alcohol	2.043	59	157784	8.987	ppbv	100
18) 1,1-Dichloroethene	2.036	96	59478	9.016	ppbv	96
19) Isopropyl Alcohol	1.887	45	91274	8.823	ppbv	94
20) Methylene Chloride	2.065	84	51356	8.372	ppbv	94
21) Allyl Chloride	2.098	41	117287	9.776	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	67541	9.517	ppbv	98
23) Vinyl Acetate	2.467	43	270452	11.460	ppbv	98
24) 1,1-Dichloroethane	2.412	63	137263	9.423	ppbv	98
25) Ethyl Acetate	2.839	43	453552	10.526	ppbv	99
26) Hexane	2.829	57	195021	10.318	ppbv	98
27) Carbon Disulfide	2.153	76	165318	10.216	ppbv	96
28) Methyl tert-Butyl Ether	2.444	73	86612	9.699	ppbv	97
29) Chloroform	2.852	83	300921	10.303	ppbv	97
30) Cyclohexane	3.865	84	165101	10.299	ppbv	97
31) cis-1,2-Dichloroethene	2.726	61	194661	10.022	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	293497	9.647	ppbv	98
34) 2-Butanone	2.561	43	298296	10.758	ppbv	100
35) Carbon Tetrachloride	3.771	117	312530	10.748	ppbv	99
36) Benzene	3.664	78	390877	10.536	ppbv	99
37) 1,2-Dichloroethane	3.224	62	236656	10.589	ppbv	99
38) Trichloroethene	4.558	130	174246	9.776	ppbv	97
39) 1,2-Dichloropropane	4.321	63	144288	10.536	ppbv	98
40) 1,4-Dioxane	4.590	88	54856	8.594	ppbv #	89
41) Tetrahydrofuran	3.059	42	161537	11.448	ppbv	98
42) Bromodichloromethane	4.496	83	321891	11.059	ppbv #	99
43) Methyl Methacrylate	4.888	69	151803	11.512	ppbv	98
44) 2,2,4-Trimethylpentane	4.648	57	672509	11.121	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	165606	11.199	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042790.D
 Acq On : 31 Jul 2025 10:15
 Operator : SY/MD
 Sample : VL0731ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

Quant Time: Aug 01 01:13:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 01 11:11:50 2025

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	208804	11.143	ppbv	97
47) 1,1,2-Trichloroethane	6.594	97	154552	10.587	ppbv	97
48) Dibromochloromethane	7.399	129	261380	11.278	ppbv	99
49) Bromoform	9.494	173	231022	11.433	ppbv	99
50) 4-Methyl-2-Pentanone	5.762	43	402543	11.270	ppbv	99
51) 2-Hexanone	7.445	43	321076	11.895	ppbv #	99
52) Tetrachloroethene	8.238	164	145761	9.479	ppbv	96
53) Toluene	6.943	91	439867	11.041	ppbv	100
54) 1,2-Dibromoethane	7.665	107	225399	10.928	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.934	131	198394	10.906	ppbv	100
57) Chlorobenzene	8.930	112	351678	10.386	ppbv #	96
58) Ethyl Benzene	9.364	91	614495	11.121	ppbv	99
59) m/p-Xylene	9.562	91	1004952m	22.758	ppbv	
60) o-Xylene	9.976	91	493686	11.188	ppbv	99
61) Styrene	9.879	104	211712	11.406	ppbv	99
62) Isopropylbenzene	10.549	105	716413	11.007	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	288264	10.176	ppbv	98
64) n-propylbenzene	10.995	120	190663	11.237	ppbv	100
65) tert-Butylbenzene	11.539	119	654563	11.322	ppbv	99
66) Benzyl Chloride	11.623	91	63429	13.365	ppbv	98
67) sec-Butylbenzene	11.775	105	909814	11.065	ppbv	99
69) p-Isopropyltoluene	11.931	119	774561	11.553	ppbv	100
70) n-Butylbenzene	12.287	91	785569	12.130	ppbv	99
71) 2-Chlorotoluene	10.908	91	556610	11.153	ppbv	99
72) 4-Ethyltoluene	11.131	105	618091	11.729	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	515043	11.871	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	570715	12.057	ppbv	93
75) 1,3-Dichlorobenzene	11.614	146	360095	10.852	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	366048	11.273	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	351242	10.770	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	281564	9.538	ppbv	99
79) Naphthalene	13.520	128	540121	10.494	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	221690	8.786	ppbv	100
81) 1,2,4-Trichlorobenzene	13.446	180	305698	10.565	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
Data File : VL042790.D
Acq On : 31 Jul 2025 10:15
Operator : SY/MD
Sample : VL0731ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 08/01/2025
Supervised By : Mahesh Dadoda 08/01/2025

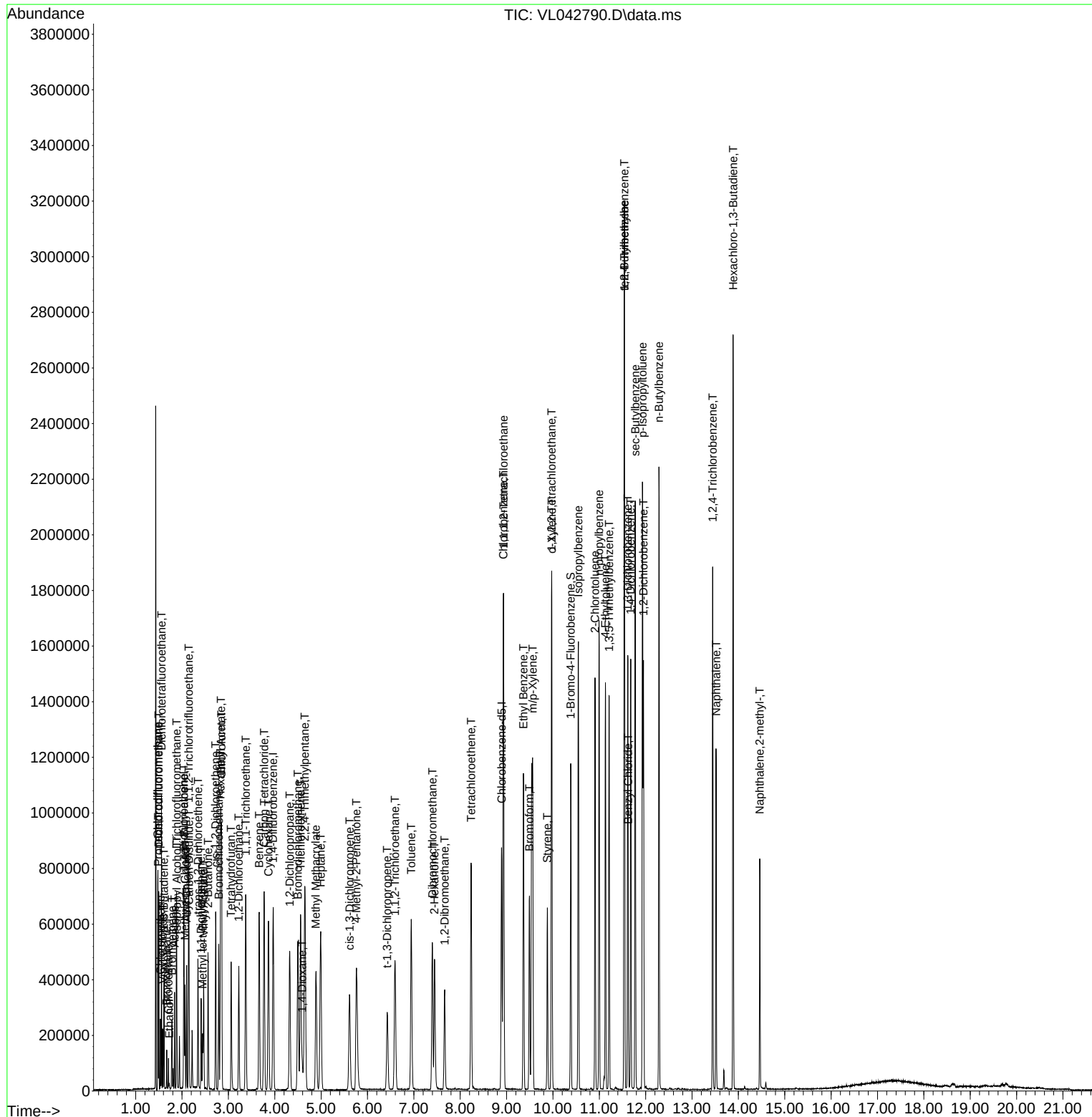
Quant Time: Aug 01 01:13:17 2025

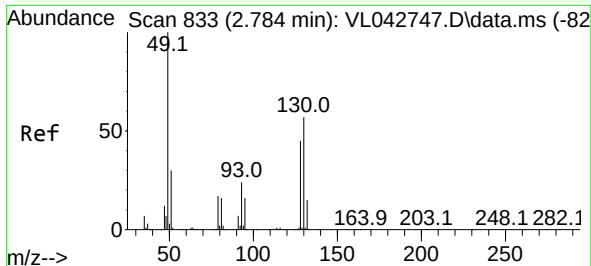
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

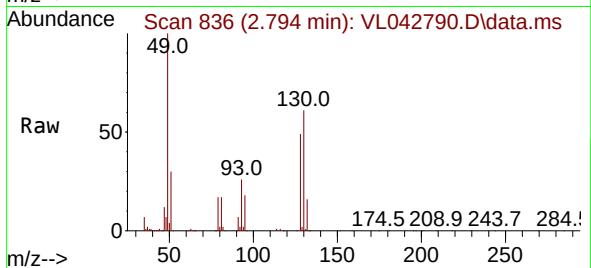
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 833
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

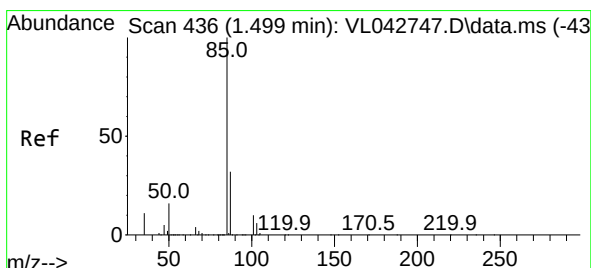
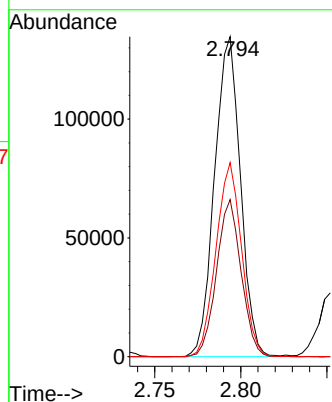
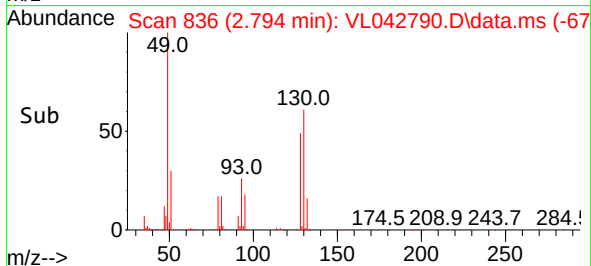
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



Tgt Ion: 49 Resp: 140979
Ion Ratio Lower Upper
49 100
128 46.6 23.6 71.0
130 59.8 30.3 90.8

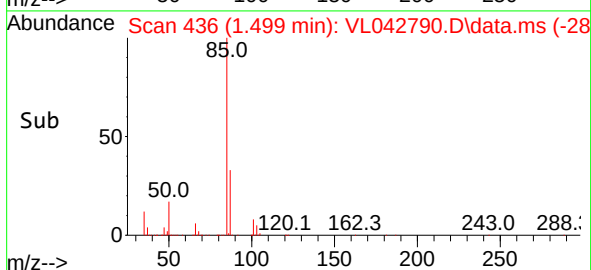
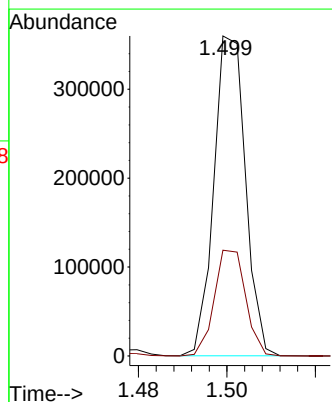
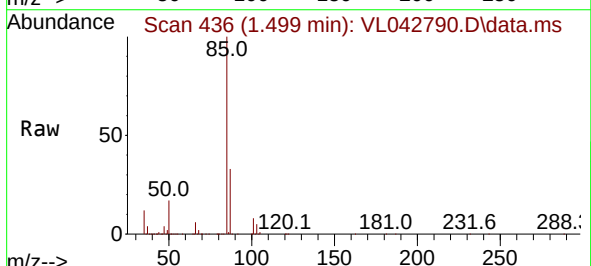
Manual Integrations
APPROVED

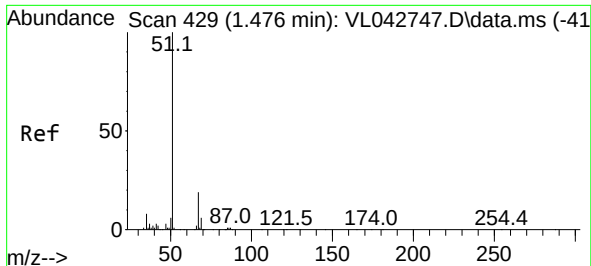
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#2
Dichlorodifluoromethane
Concen: 9.608 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

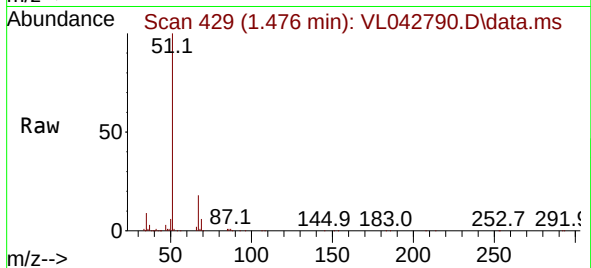
Tgt Ion: 85 Resp: 179092
Ion Ratio Lower Upper
85 100
87 33.1 25.4 38.2





#3
Chlorodifluoromethane
Concen: 10.049 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

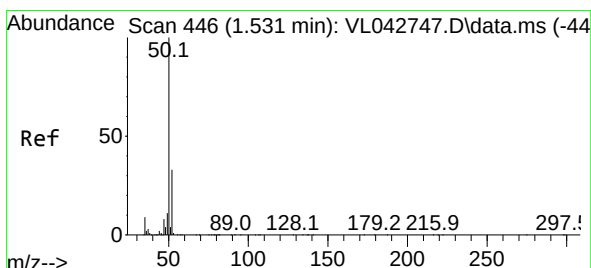
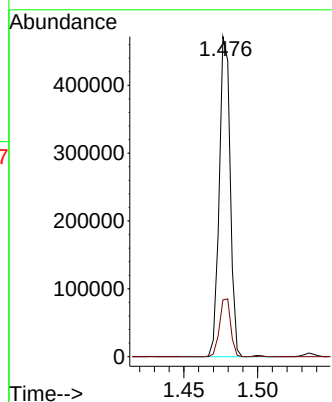
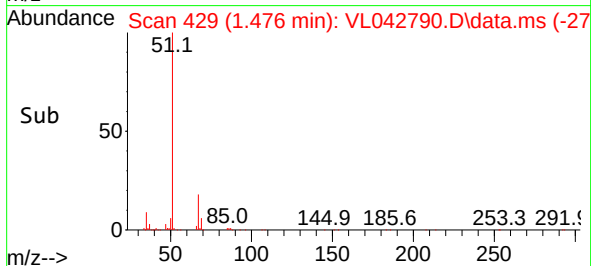
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



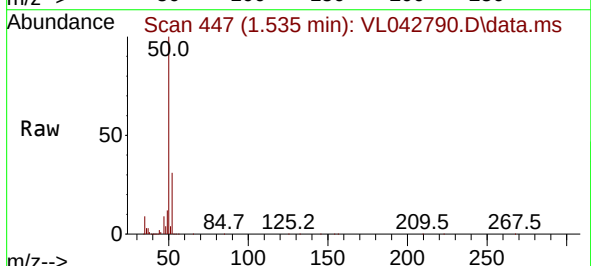
Tgt Ion: 51 Resp: 243998
Ion Ratio Lower Upper
51 100
67 18.6 15.0 22.6

Manual Integrations
APPROVED

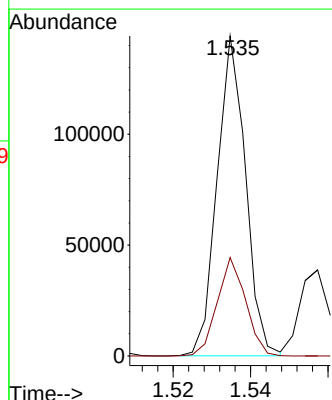
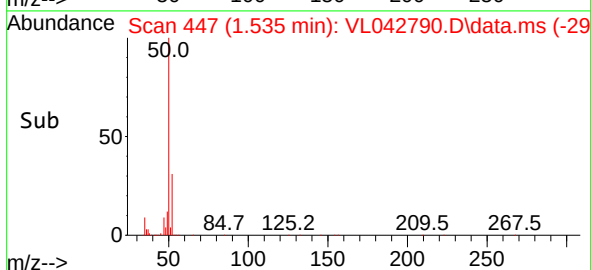
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

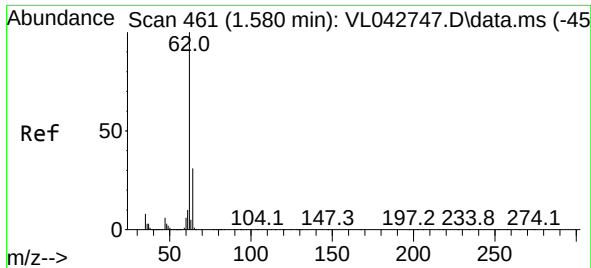


#4
Chloromethane
Concen: 9.761 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



Tgt Ion: 50 Resp: 73605
Ion Ratio Lower Upper
50 100
52 30.7 26.6 40.0





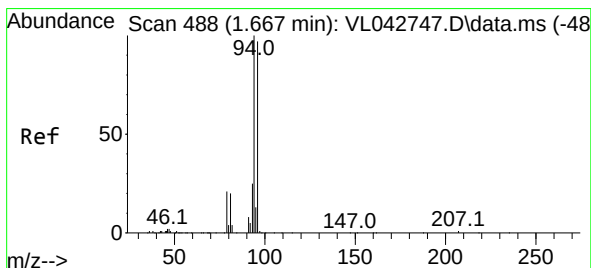
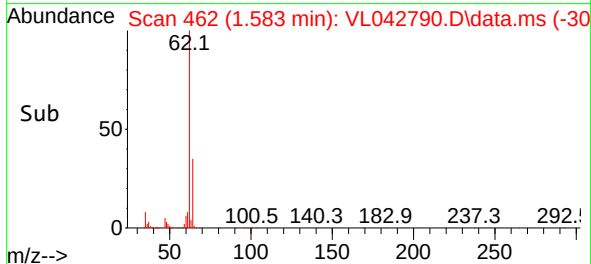
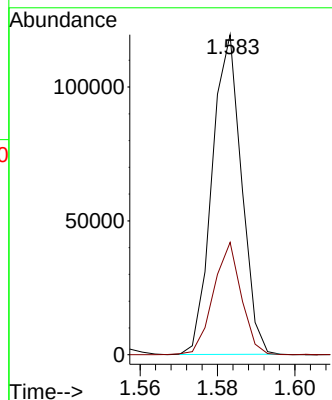
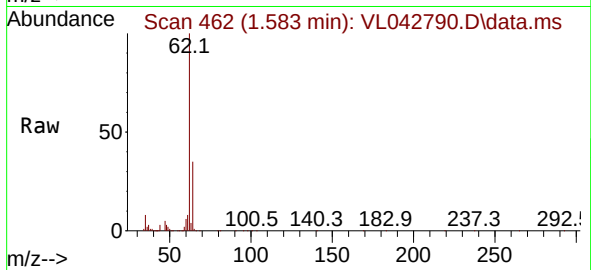
#5
 Vinyl Chloride
 Concen: 8.460 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

Tgt Ion: 62 Resp: 63029
 Ion Ratio Lower Upper
 62 100
 64 35.1 24.5 36.7

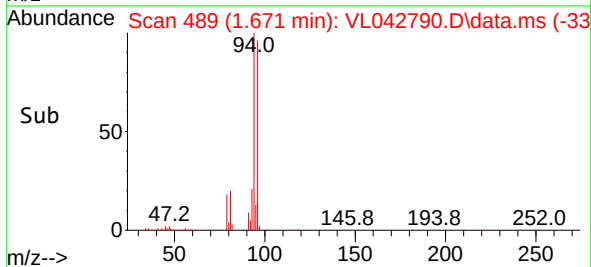
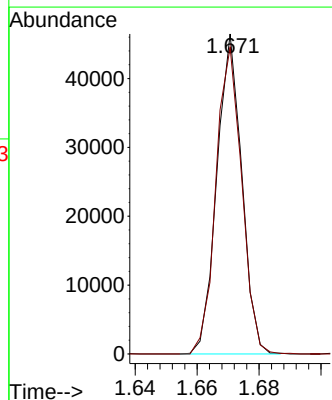
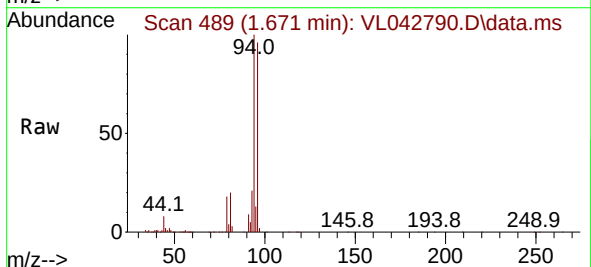
Manual Integrations
 APPROVED

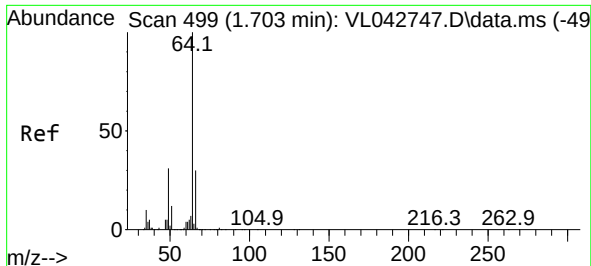
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#6
 Bromomethane
 Concen: 9.007 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 94 Resp: 25942
 Ion Ratio Lower Upper
 94 100
 96 95.9 77.6 116.4





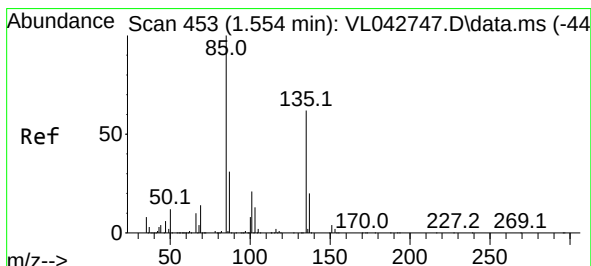
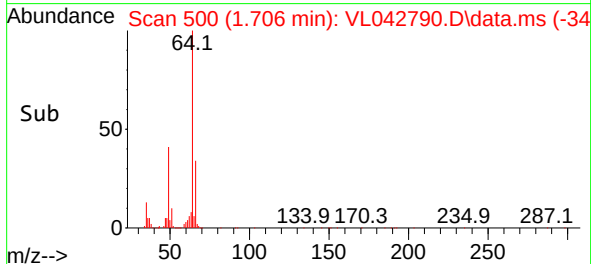
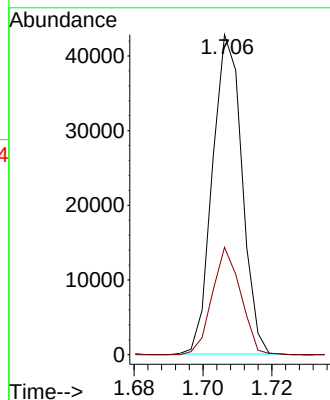
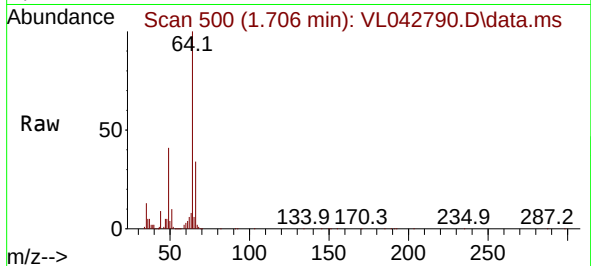
#7
Chloroethane
Concen: 8.839 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Tgt Ion: 64 Resp: 2544
Ion Ratio Lower Upper
64 100
66 33.5 24.1 36.1

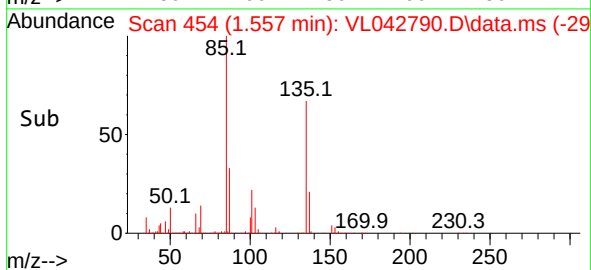
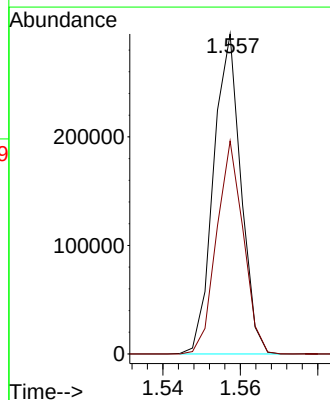
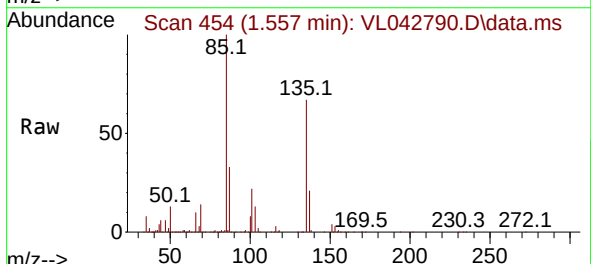
Manual Integrations
APPROVED

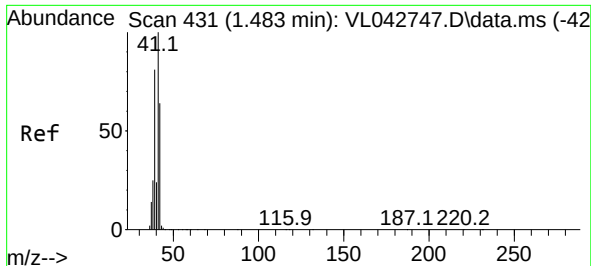
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#8
Dichlorotetrafluoroethane
Concen: 9.447 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 85 Resp: 144815
Ion Ratio Lower Upper
85 100
135 65.0 50.6 76.0





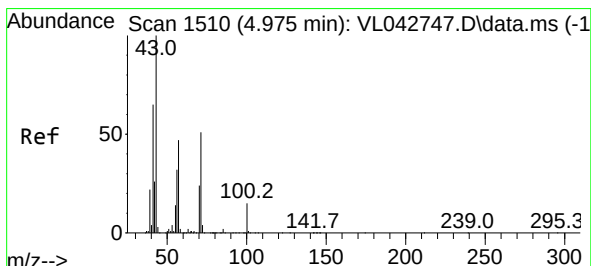
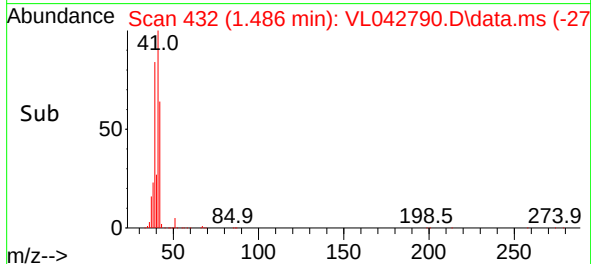
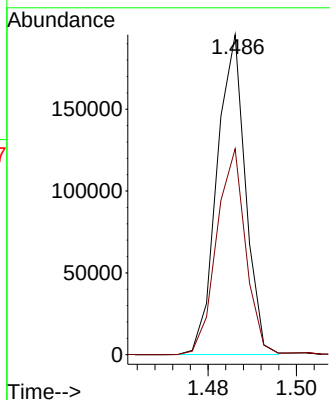
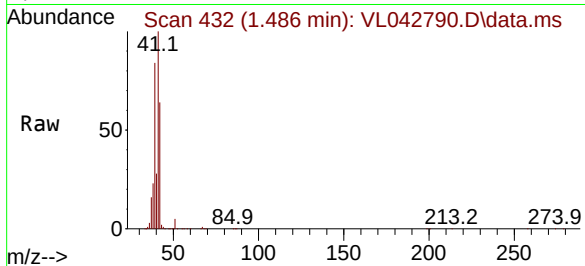
#9
 Propene
 Concen: 9.891 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

Tgt Ion: 41 Resp: 8728
 Ion Ratio Lower Upper
 41 100
 42 66.7 53.2 79.8

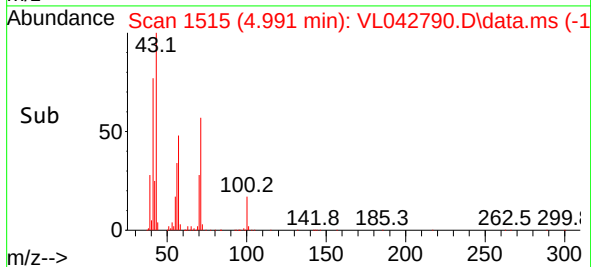
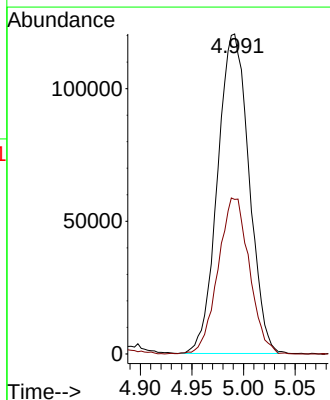
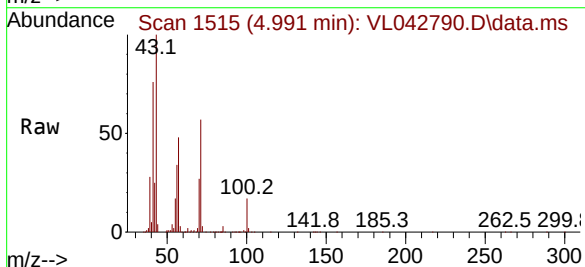
Manual Integrations
 APPROVED

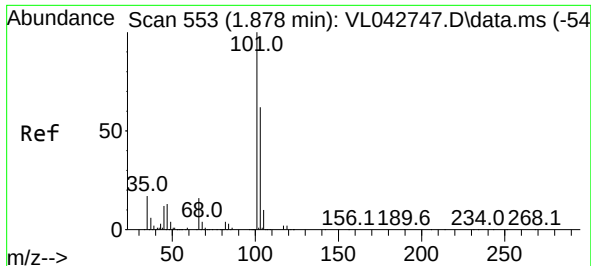
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#10
 Heptane
 Concen: 10.724 ppbv
 RT: 4.991 min Scan# 1515
 Delta R.T. 0.016 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

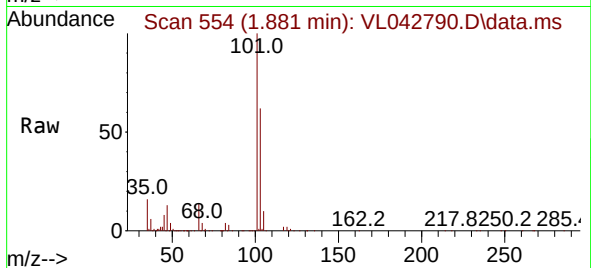
Tgt Ion: 43 Resp: 255178
 Ion Ratio Lower Upper
 43 100
 57 48.6 39.9 59.9





#11
Trichlorofluoromethane
Concen: 9.314 ppbv
RT: 1.881 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

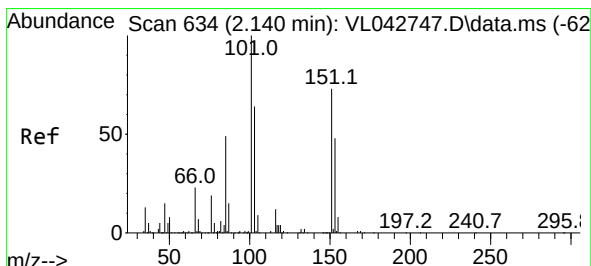
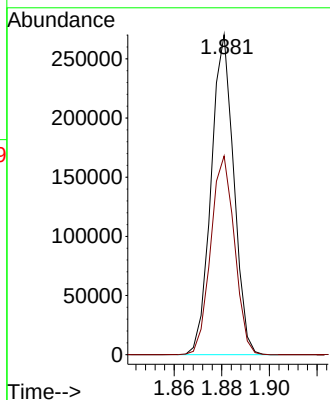
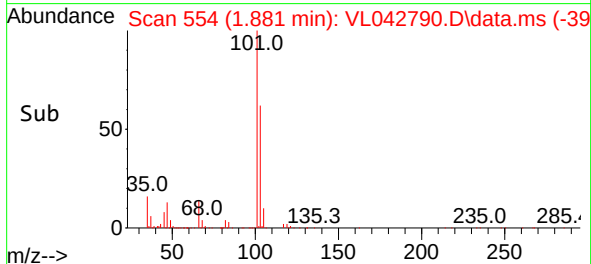
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



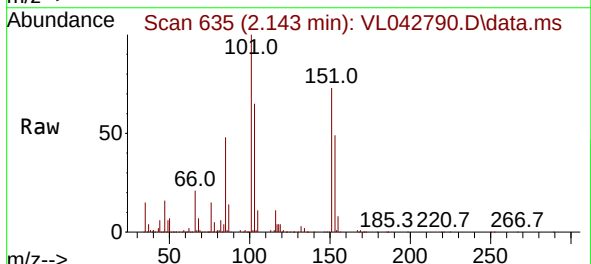
Tgt Ion:101 Resp: 178945
Ion Ratio Lower Upper
101 100
103 62.1 49.6 74.4

Manual Integrations
APPROVED

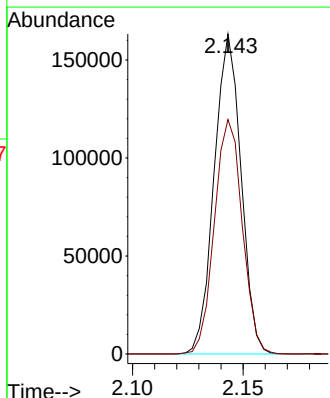
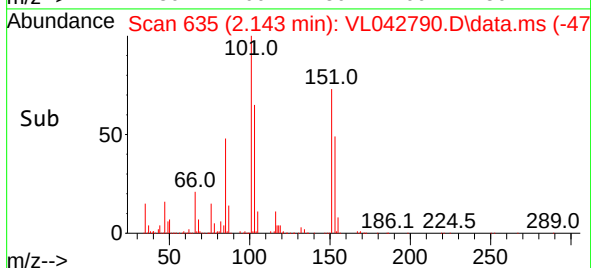
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

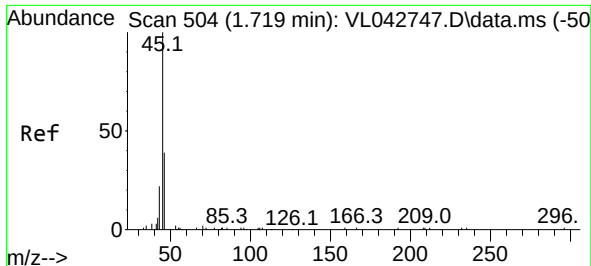


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.446 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



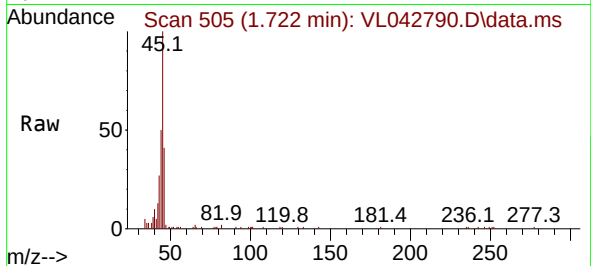
Tgt Ion:101 Resp: 137912
Ion Ratio Lower Upper
101 100
151 76.0 60.5 90.7





#13
Ethanol
Concen: 8.701 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

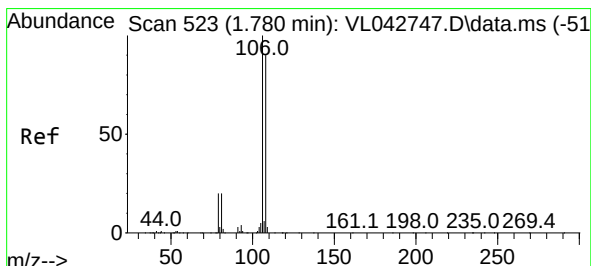
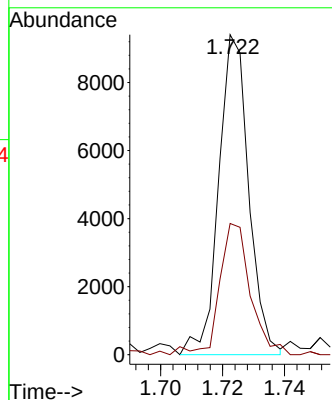
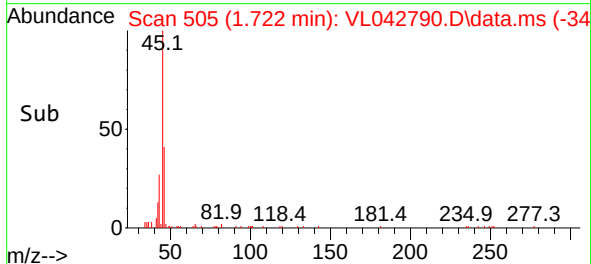
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



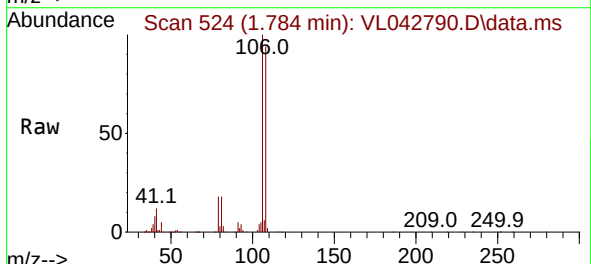
Tgt Ion: 45 Resp: 633
Ion Ratio Lower Upper
45 100
46 42.3 17.8 71.4

Manual Integrations
APPROVED

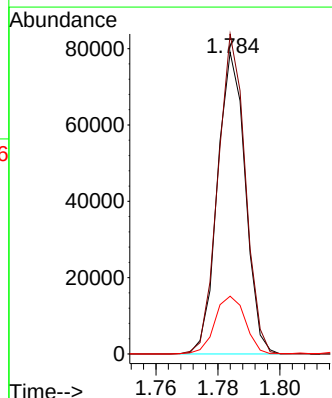
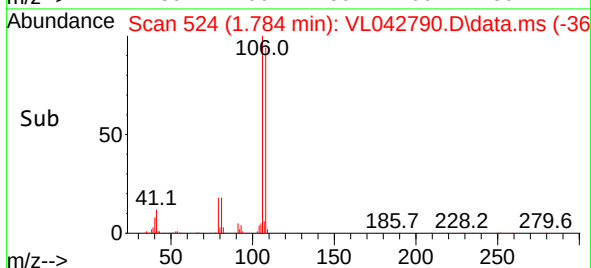
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

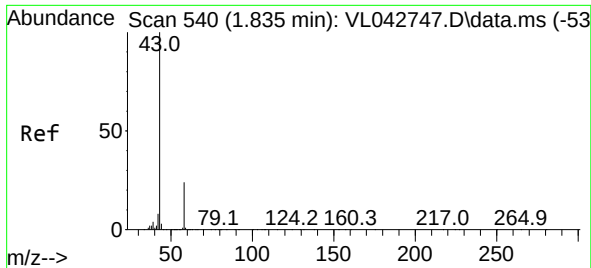


#14
Bromoethene
Concen: 9.543 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



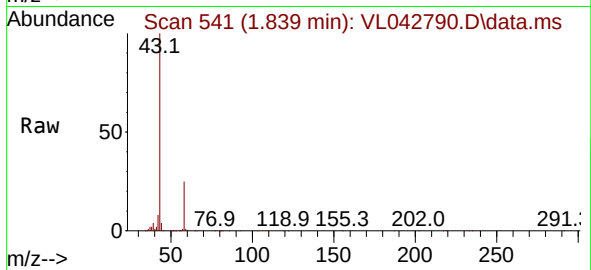
Tgt Ion:108 Resp: 49330
Ion Ratio Lower Upper
108 100
106 104.2 84.7 127.1
79 21.5 17.4 26.2





#15
Acetone
Concen: 7.590 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

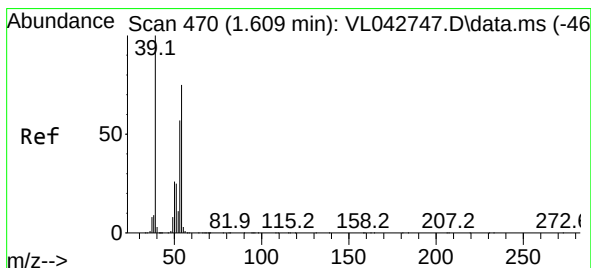
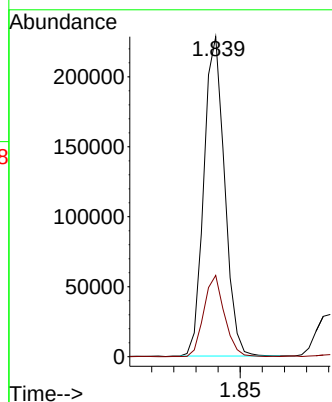
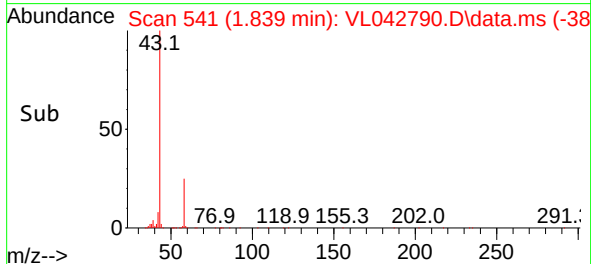
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



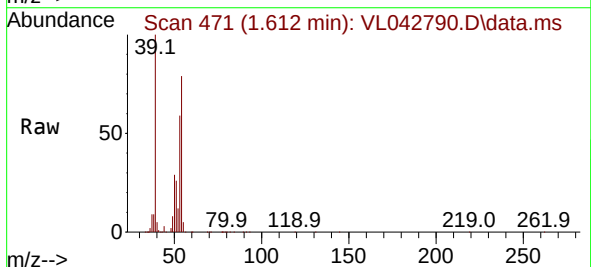
Tgt Ion: 43 Resp: 147760
Ion Ratio Lower Upper
43 100
58 25.5 19.8 29.8

Manual Integrations
APPROVED

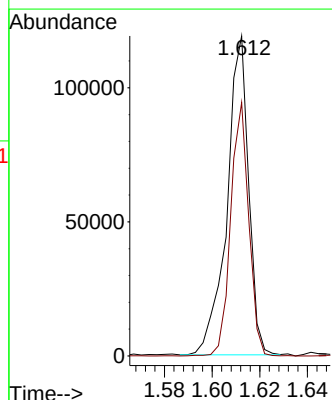
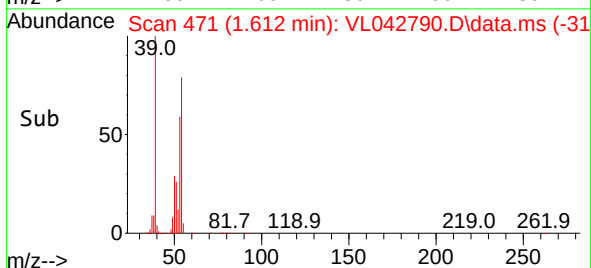
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

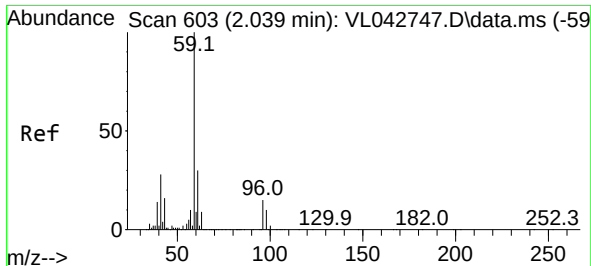


#16
1,3-Butadiene
Concen: 9.012 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



Tgt Ion: 39 Resp: 74826
Ion Ratio Lower Upper
39 100
54 66.1 54.5 81.7





#17

tert-Butyl alcohol

Concen: 8.987 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

Tgt Ion: 59 Resp: 157784

Ion Ratio Lower Upper

59 100

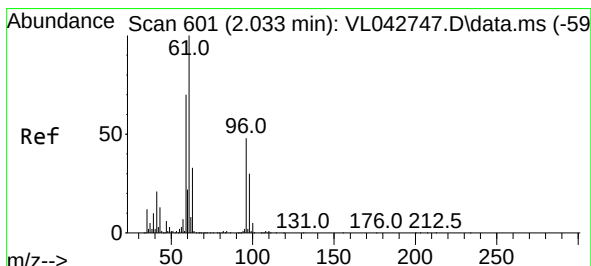
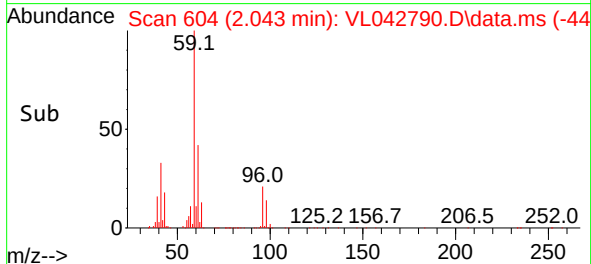
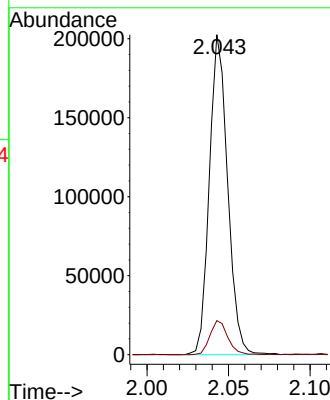
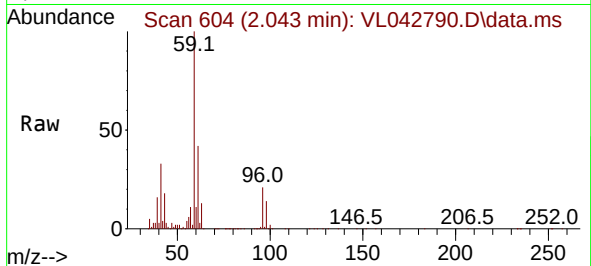
57 10.6 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#18

1,1-Dichloroethene

Concen: 9.016 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

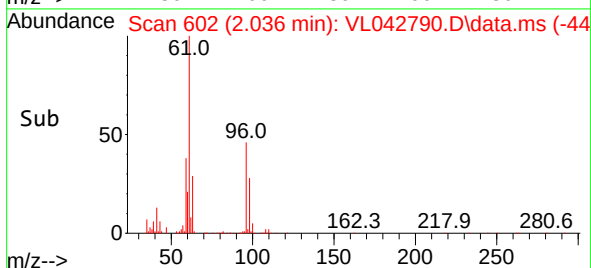
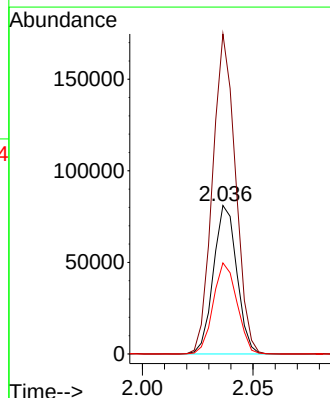
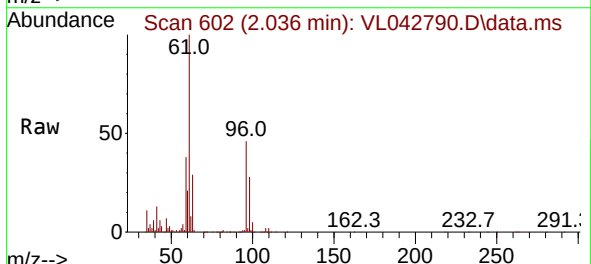
Tgt Ion: 96 Resp: 59478

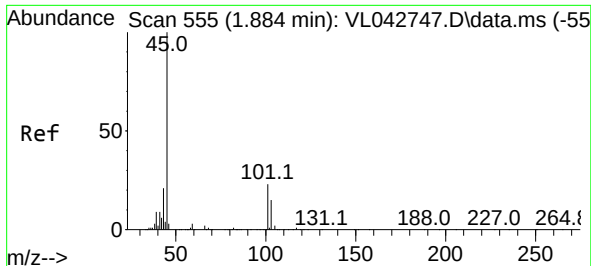
Ion Ratio Lower Upper

96 100

61 215.5 165.8 248.6

98 61.3 49.9 74.9





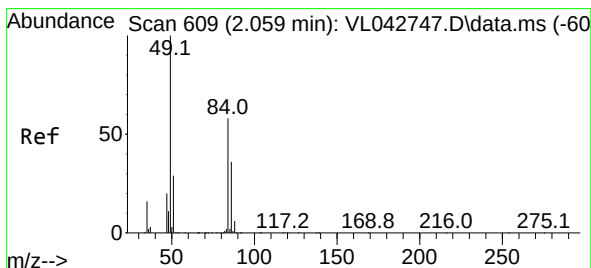
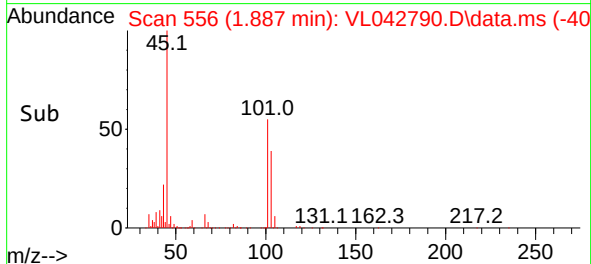
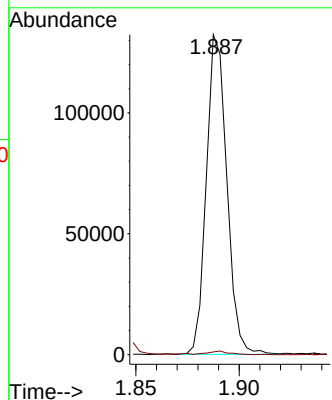
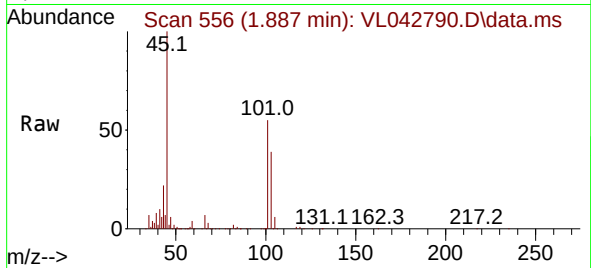
#19
Isopropyl Alcohol
Concen: 8.823 ppbv
RT: 1.887 min Scan# 512
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Tgt Ion: 45 Resp: 91274
Ion Ratio Lower Upper
45 100
58 41.3 30.0 45.0

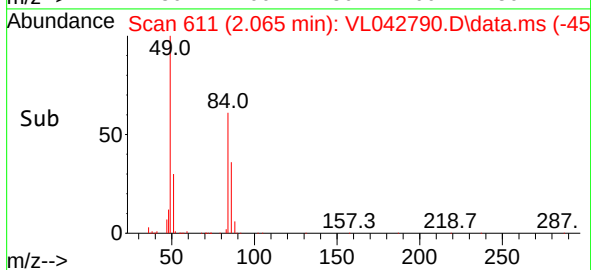
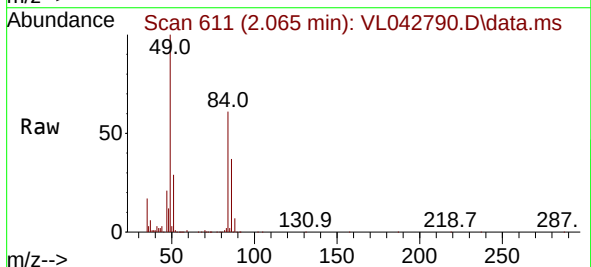
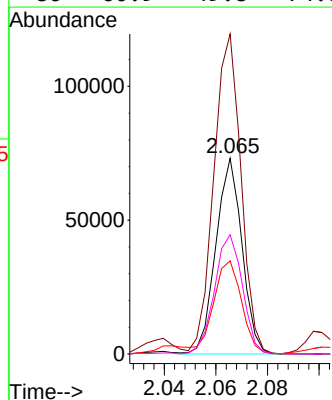
Manual Integrations
APPROVED

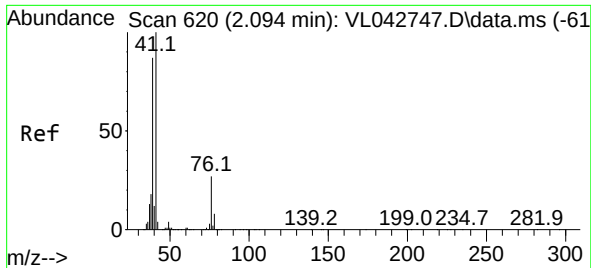
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#20
Methylene Chloride
Concen: 8.372 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

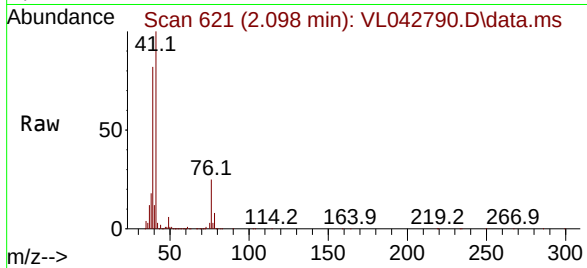
Tgt Ion: 84 Resp: 51356
Ion Ratio Lower Upper
84 100
49 163.1 138.6 208.0
51 47.5 40.6 61.0
86 60.9 49.8 74.8





#21
 Allyl Chloride
 Concen: 9.776 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

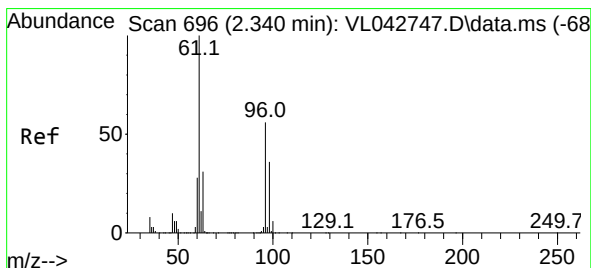
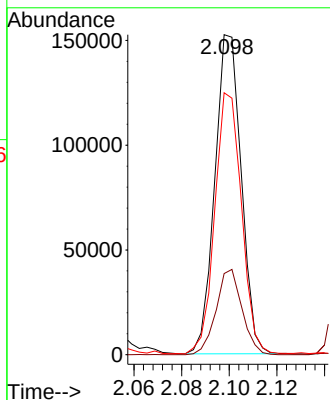
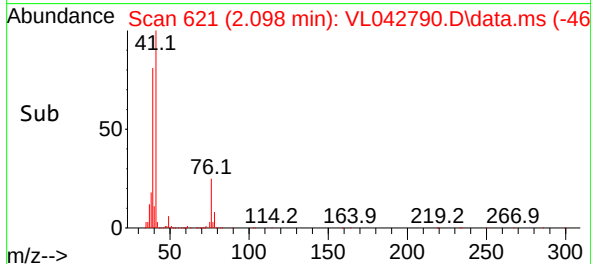
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01



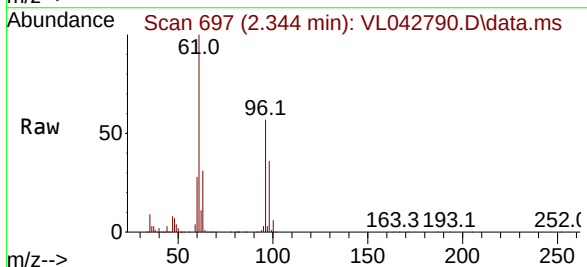
Tgt Ion: 41 Resp: 11728
 Ion Ratio Lower Upper
 41 100
 76 26.3 21.1 31.7
 39 82.6 68.3 102.5

Manual Integrations
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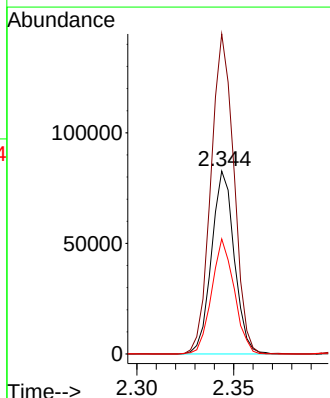
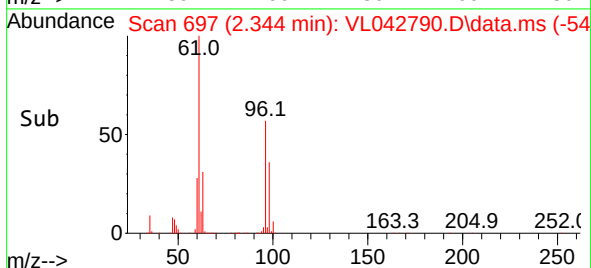
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

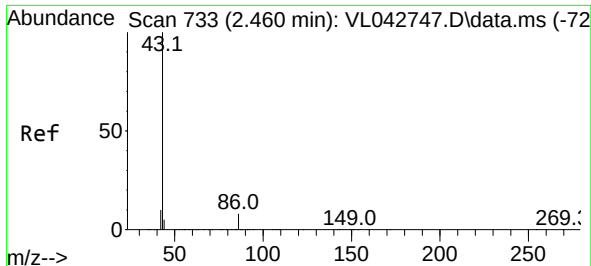


#22
 trans-1,2-Dichloroethene
 Concen: 9.517 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15



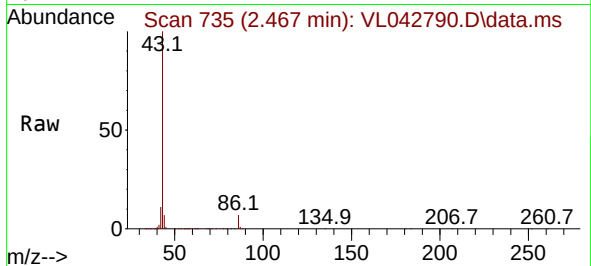
Tgt Ion: 96 Resp: 67541
 Ion Ratio Lower Upper
 96 100
 61 175.0 142.3 213.5
 98 62.9 50.6 76.0





#23
 Vinyl Acetate
 Concen: 11.460 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.007 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

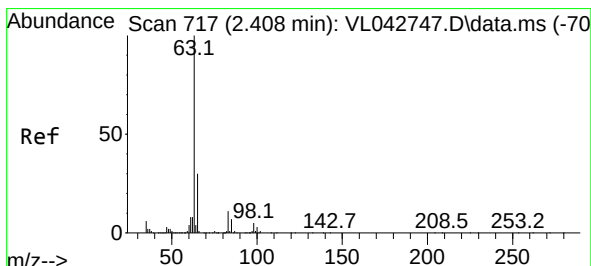
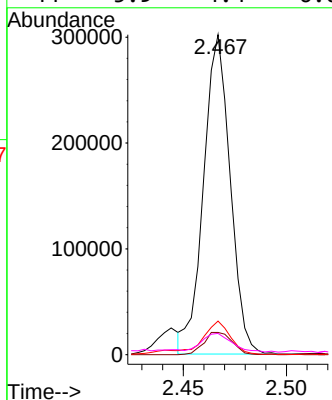
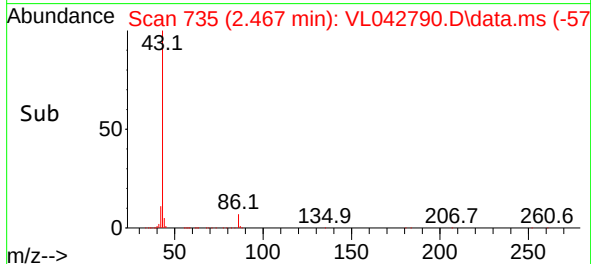
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01



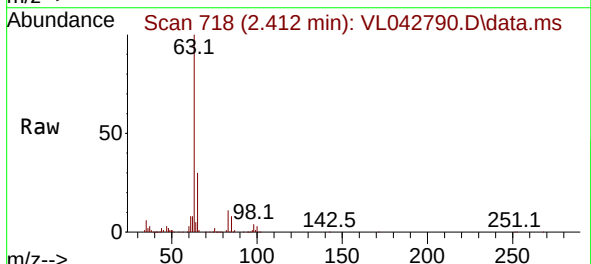
Tgt Ion: 43 Resp: 270452
 Ion Ratio Lower Upper
 43 100
 86 7.0 6.1 9.1
 42 10.4 7.8 11.8
 44 5.9 4.4 6.6

Manual Integrations
 APPROVED

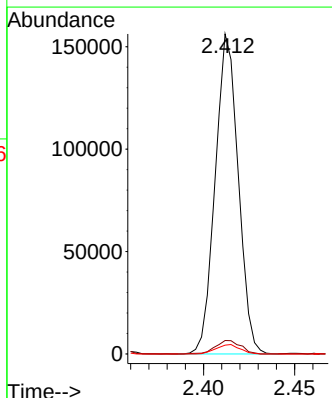
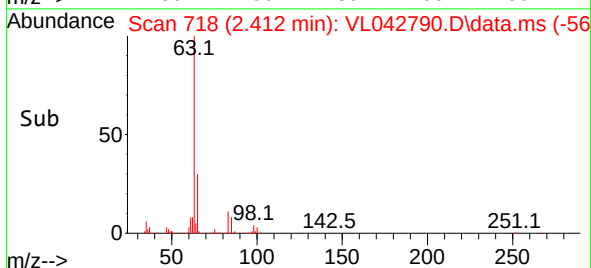
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

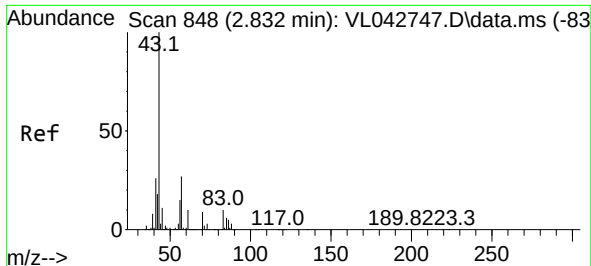


#24
 1,1-Dichloroethane
 Concen: 9.423 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15



Tgt Ion: 63 Resp: 137263
 Ion Ratio Lower Upper
 63 100
 98 4.2 2.5 7.4
 100 2.8 1.6 4.8





#25

Ethyl Acetate

Concen: 10.526 ppbv

RT: 2.839 min Scan# 848

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

Tgt Ion: 43 Resp: 453552

Ion Ratio Lower Upper

43 100

45 9.9 7.8 11.6

61 8.3 6.7 10.1

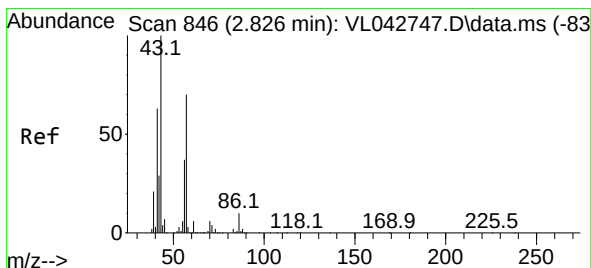
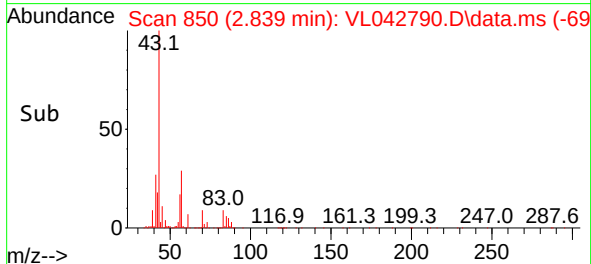
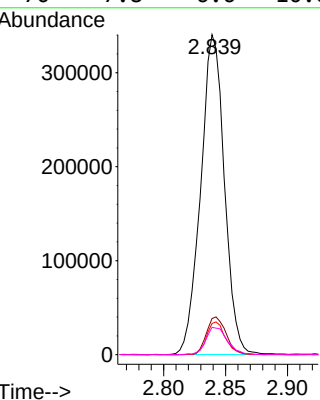
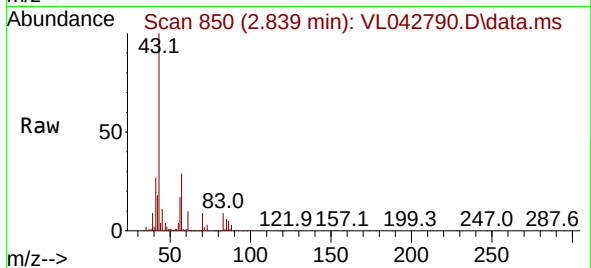
70 7.8 6.6 10.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#26

Hexane

Concen: 10.318 ppbv

RT: 2.829 min Scan# 847

Delta R.T. 0.003 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Tgt Ion: 57 Resp: 195021

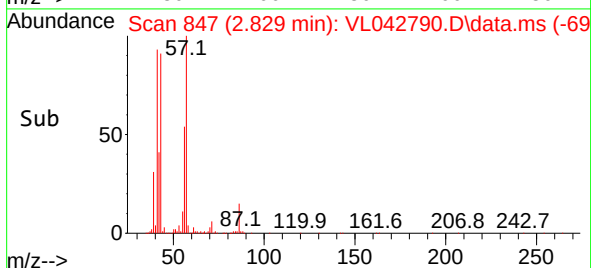
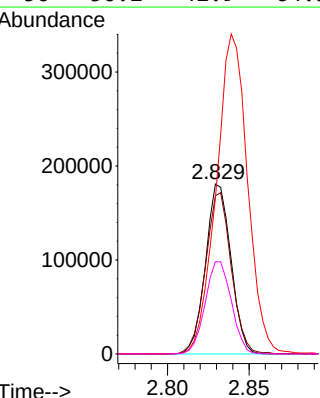
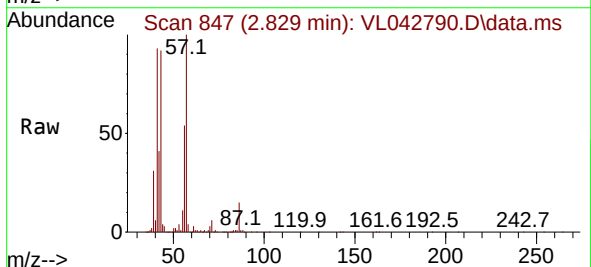
Ion Ratio Lower Upper

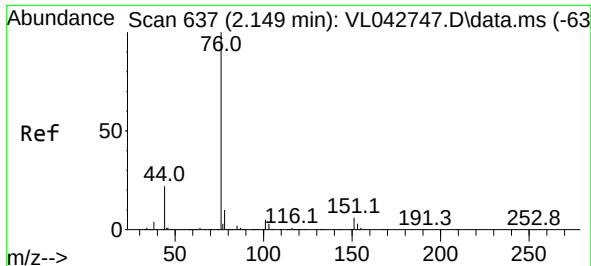
57 100

41 97.6 75.4 113.2

43 233.9 185.0 277.6

56 56.2 42.9 64.3





#27

Carbon Disulfide

Concen: 10.216 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

Tgt Ion: 76 Resp: 165318

Ion Ratio Lower Upper

76 100

44 21.3 19.3 28.9

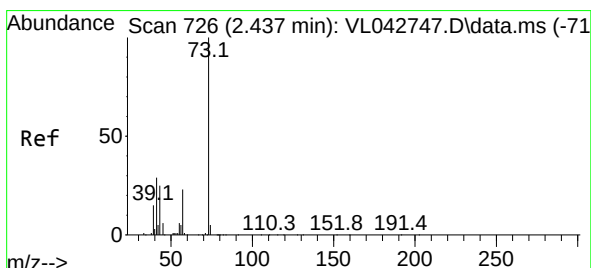
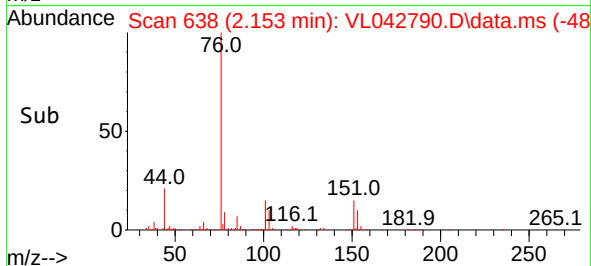
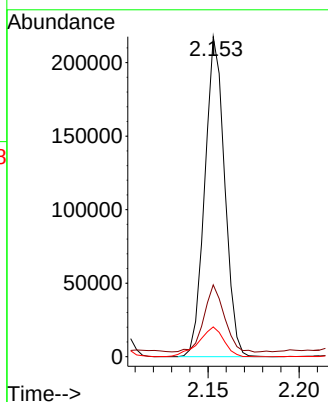
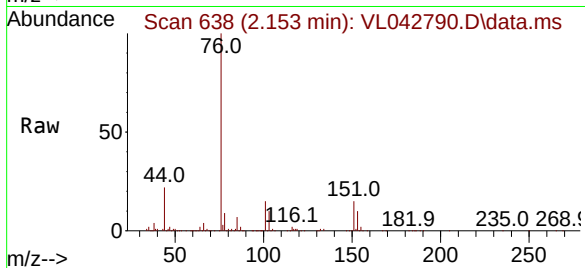
78 11.8 9.9 14.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#28

Methyl tert-Butyl Ether

Concen: 9.699 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.007 min

Lab File: VL042790.D

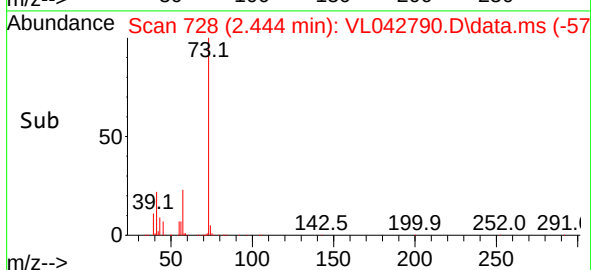
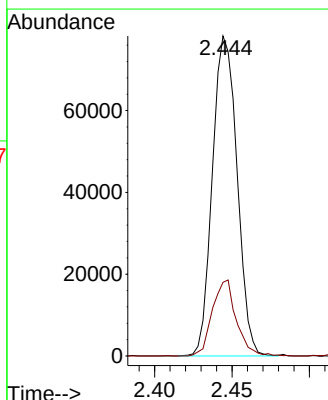
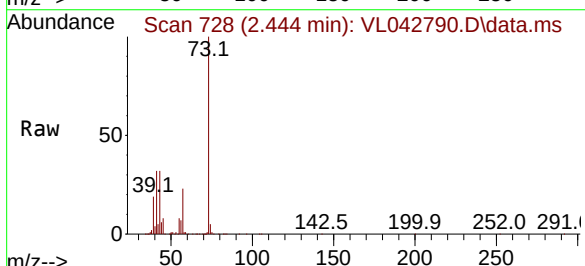
Acq: 31 Jul 2025 10:15

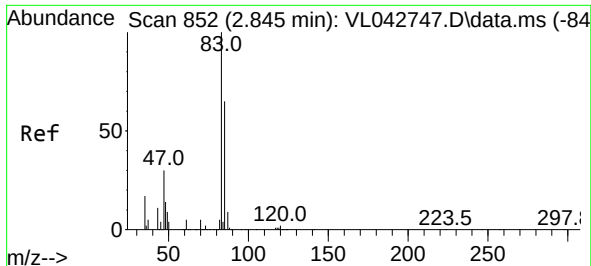
Tgt Ion: 73 Resp: 86612

Ion Ratio Lower Upper

73 100

57 23.1 19.8 29.8





#29

Chloroform

Concen: 10.303 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

Tgt Ion: 83 Resp: 30092

Ion Ratio Lower Upper

83 100

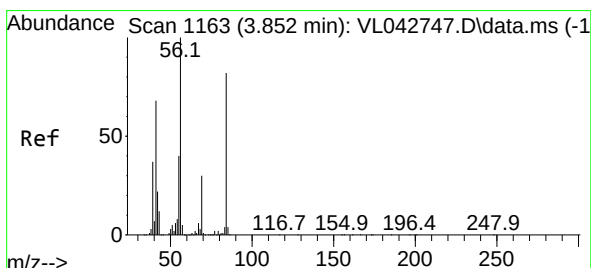
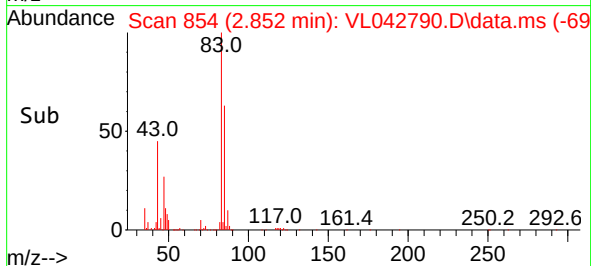
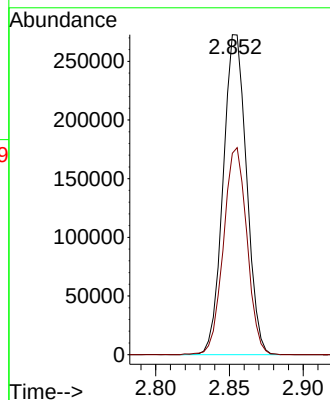
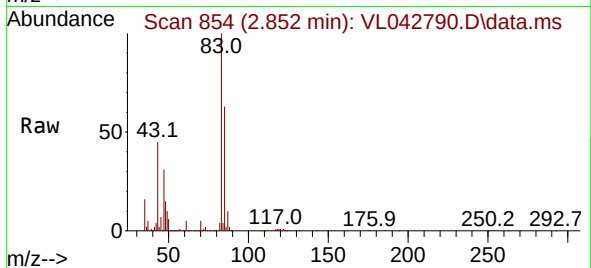
85 62.9 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#30

Cyclohexane

Concen: 10.299 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.013 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

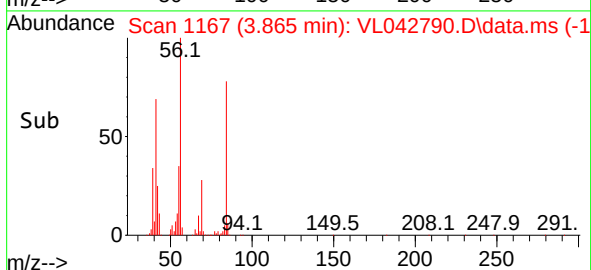
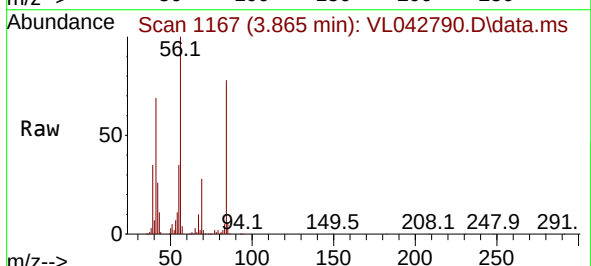
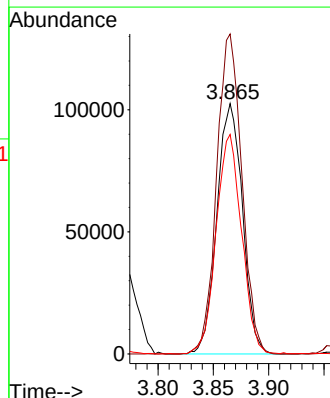
Tgt Ion: 84 Resp: 165101

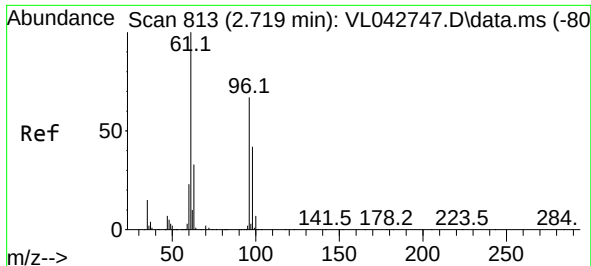
Ion Ratio Lower Upper

84 100

56 125.4 97.5 146.3

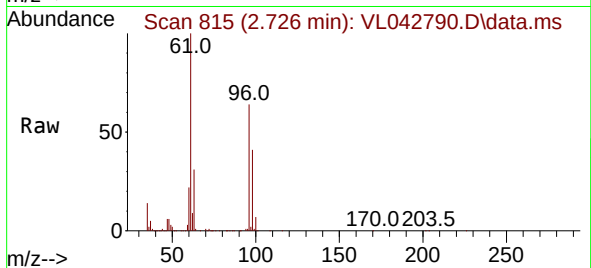
41 87.4 67.2 100.8





#31
 cis-1,2-Dichloroethene
 Concen: 10.022 ppbv
 RT: 2.726 min Scan# 813
 Delta R.T. 0.007 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

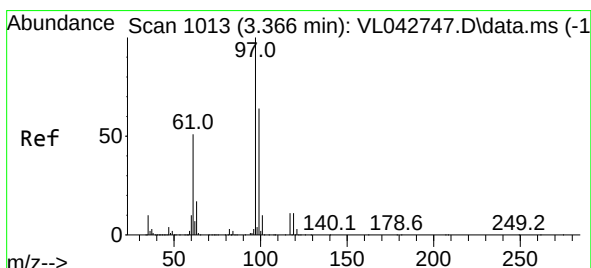
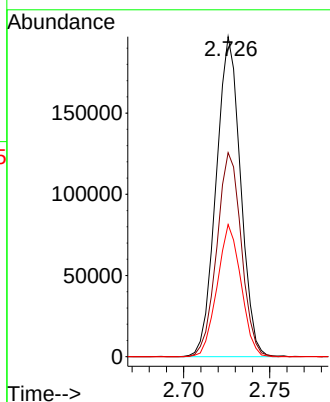
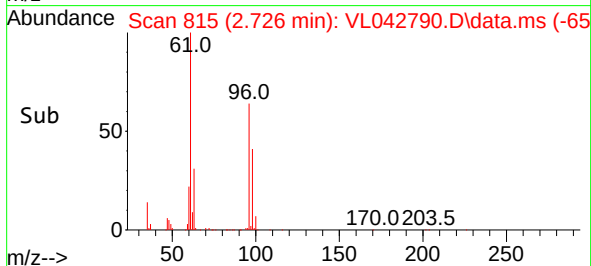
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01



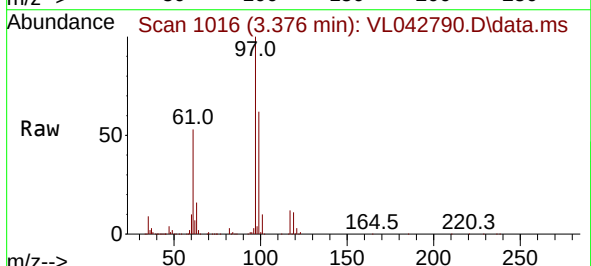
Tgt Ion: 61 Resp: 19466
 Ion Ratio Lower Upper
 61 100
 96 63.8 53.5 80.3
 98 41.3 33.6 50.4

Manual Integrations
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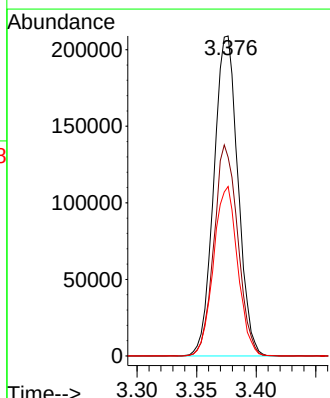
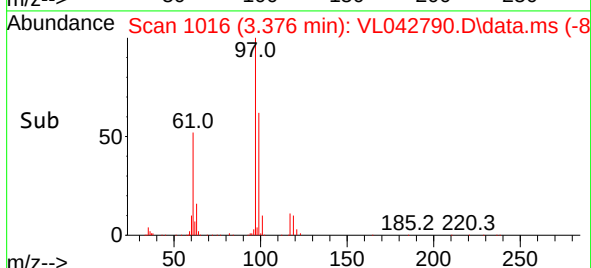
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

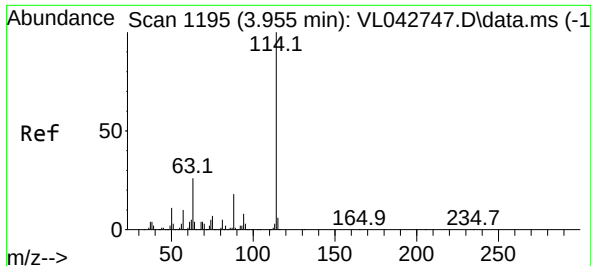


#32
 1,1,1-Trichloroethane
 Concen: 9.647 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.010 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15



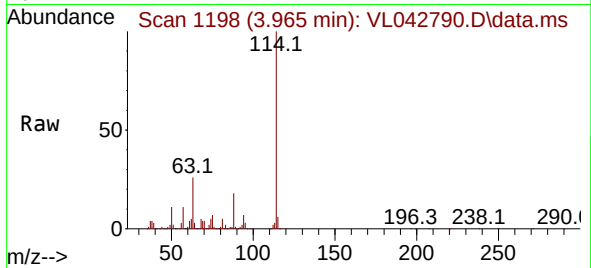
Tgt Ion: 97 Resp: 293497
 Ion Ratio Lower Upper
 97 100
 99 65.1 51.0 76.6
 61 53.3 40.9 61.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1195
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

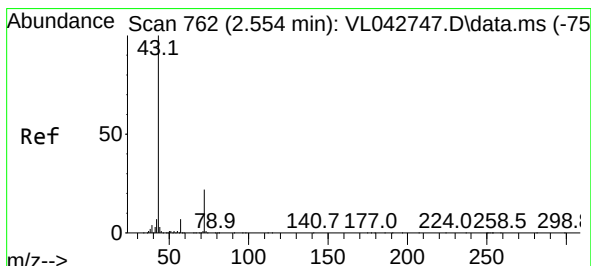
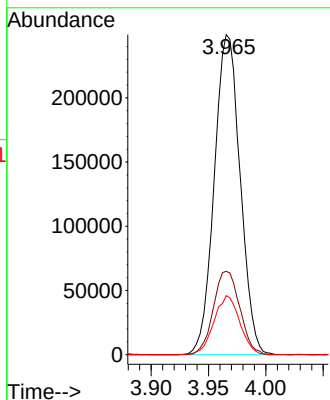
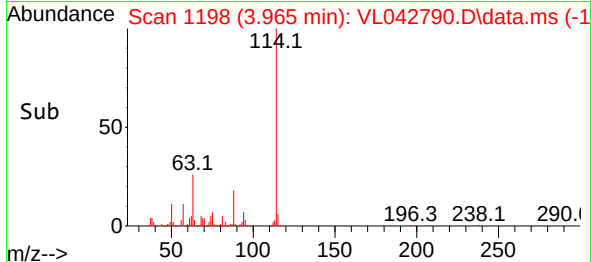
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



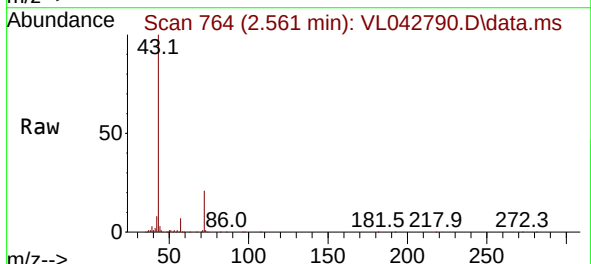
Tgt Ion:114 Resp: 391458
Ion Ratio Lower Upper
114 100
63 26.7 20.5 30.7
88 18.4 14.0 21.0

Manual Integrations
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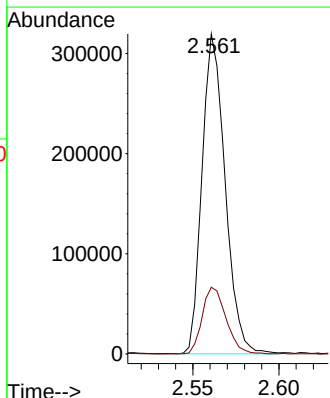
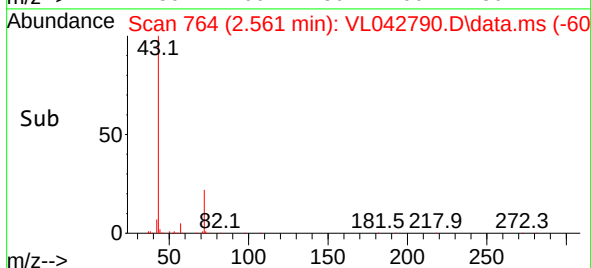
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

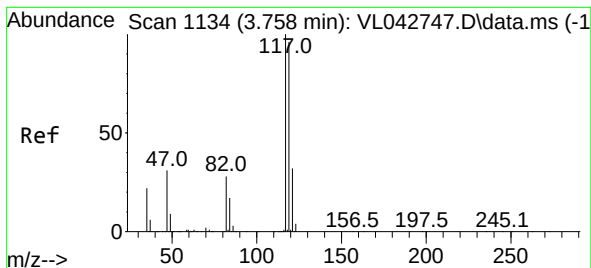


#34
2-Butanone
Concen: 10.758 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



Tgt Ion: 43 Resp: 298296
Ion Ratio Lower Upper
43 100
72 21.6 17.4 26.0





#35

Carbon Tetrachloride

Concen: 10.748 ppbv

RT: 3.771 min Scan# 1138

Delta R.T. 0.013 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

Tgt Ion:117 Resp: 312530

Ion Ratio Lower Upper

117 100

119 96.1 77.1 115.7

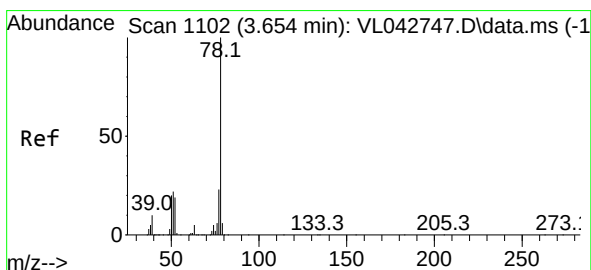
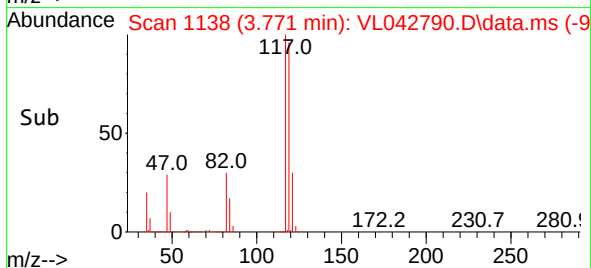
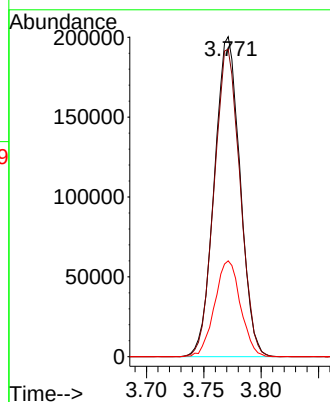
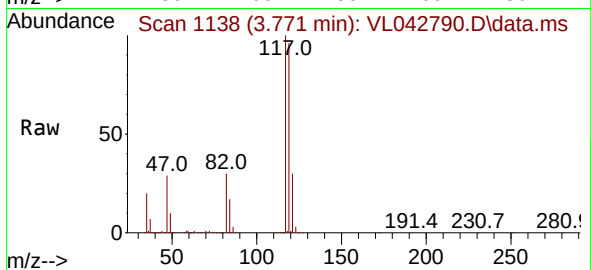
121 30.0 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#36

Benzene

Concen: 10.536 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

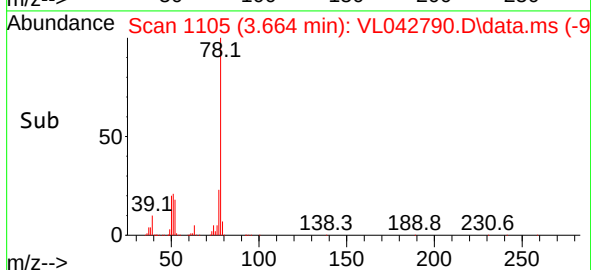
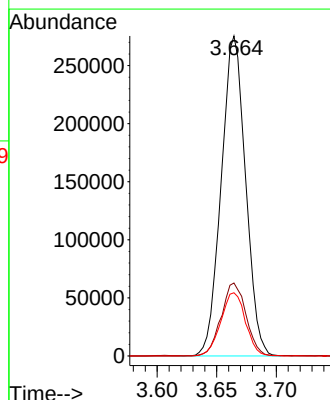
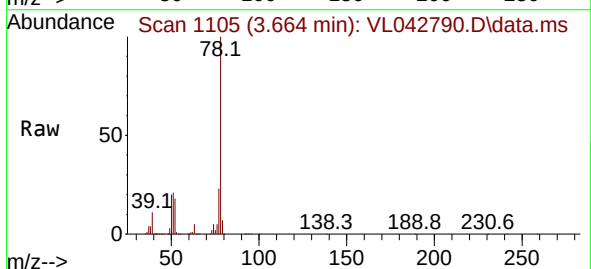
Tgt Ion: 78 Resp: 390877

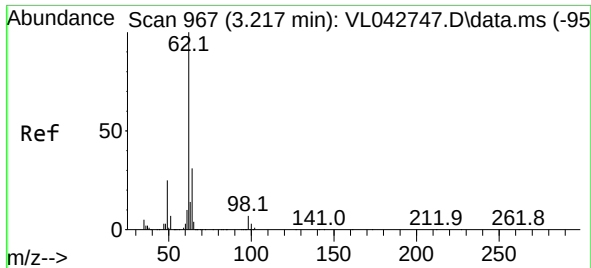
Ion Ratio Lower Upper

78 100

77 22.7 18.5 27.7

50 19.8 16.2 24.2





#37

1,2-Dichloroethane

Concen: 10.589 ppbv

RT: 3.224 min Scan# 90

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

Tgt Ion: 62 Resp: 236650

Ion Ratio Lower Upper

62 100

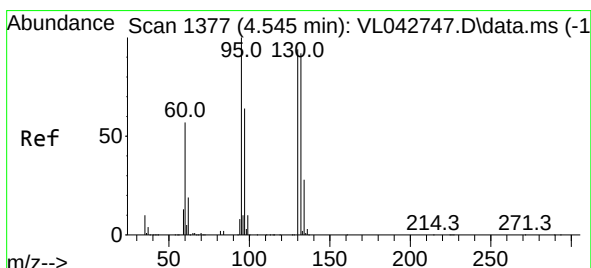
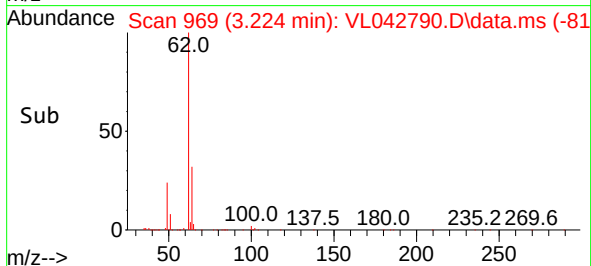
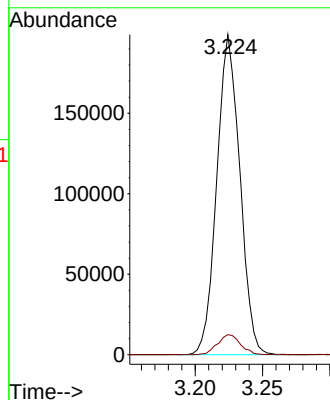
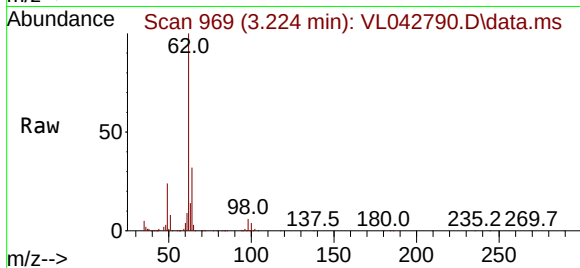
98 6.2 5.2 7.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#38

Trichloroethene

Concen: 9.776 ppbv

RT: 4.558 min Scan# 1381

Delta R.T. 0.013 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Tgt Ion:130 Resp: 174246

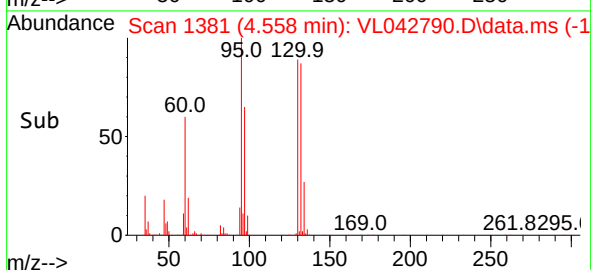
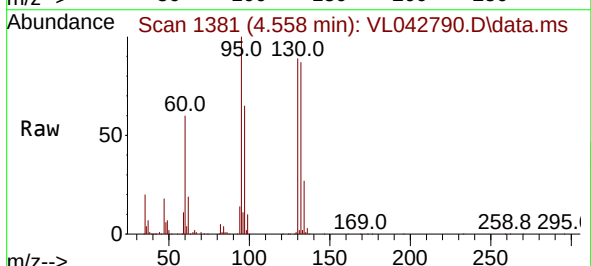
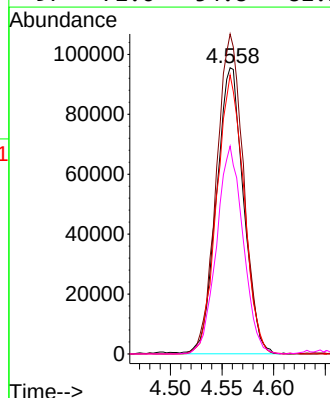
Ion Ratio Lower Upper

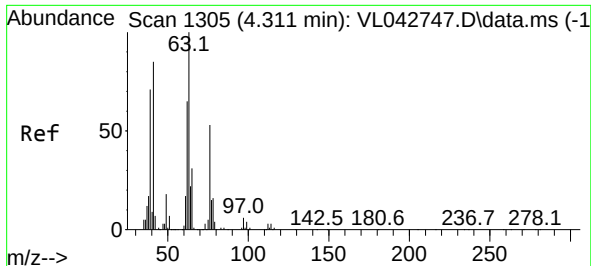
130 100

95 111.7 85.4 128.2

132 97.5 78.2 117.2

97 72.6 54.8 82.2





#39

1,2-Dichloropropane

Concen: 10.536 ppbv

RT: 4.321 min Scan# 1308

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

Tgt Ion: 63 Resp: 144288

Ion Ratio Lower Upper

63 100

41 86.0 68.2 102.4

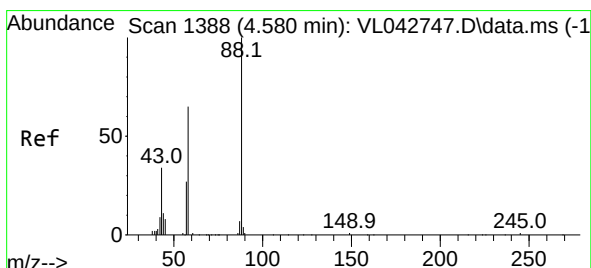
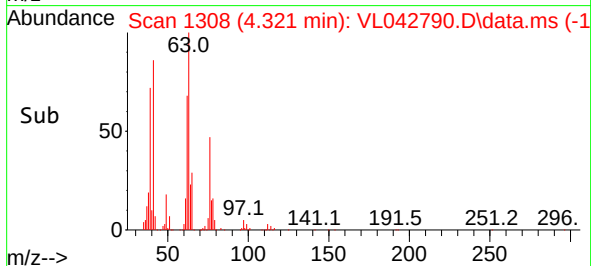
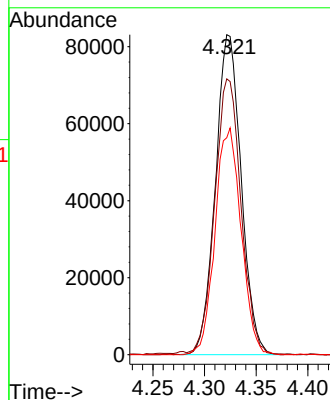
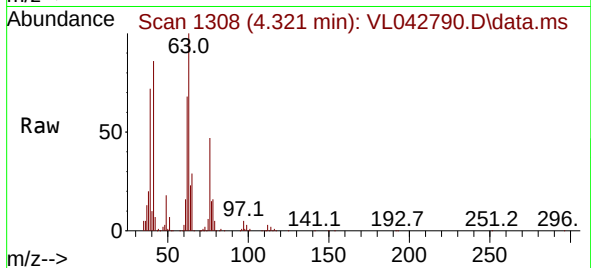
62 67.8 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#40

1,4-Dioxane

Concen: 8.594 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Tgt Ion: 88 Resp: 54856

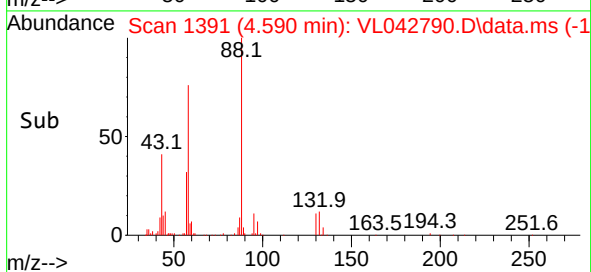
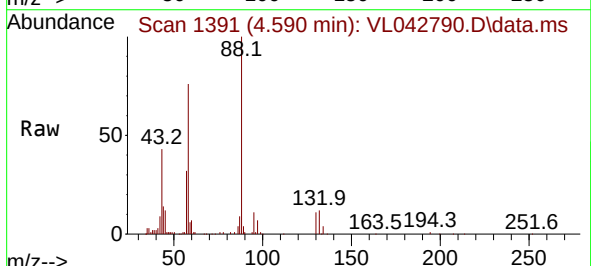
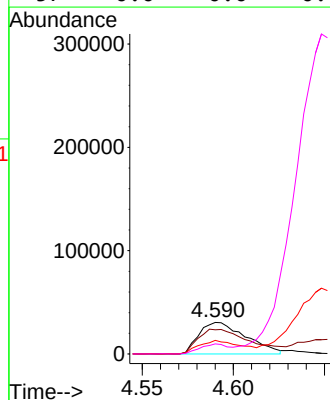
Ion Ratio Lower Upper

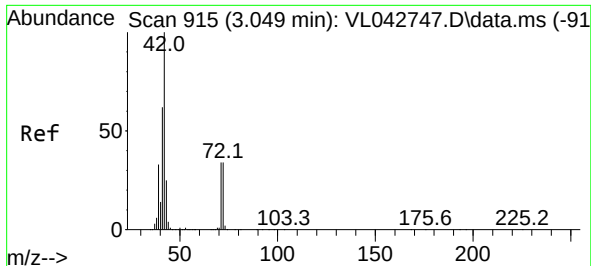
88 100

58 85.8 58.8 88.2

43 34.3 28.9 43.3

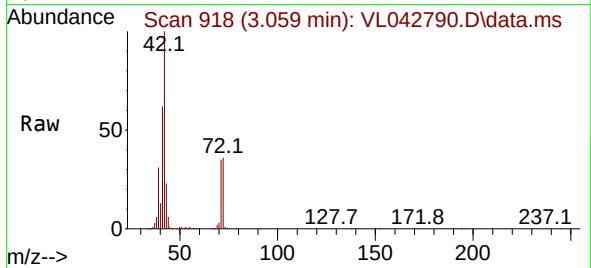
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 11.448 ppbv
RT: 3.059 min Scan# 915
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

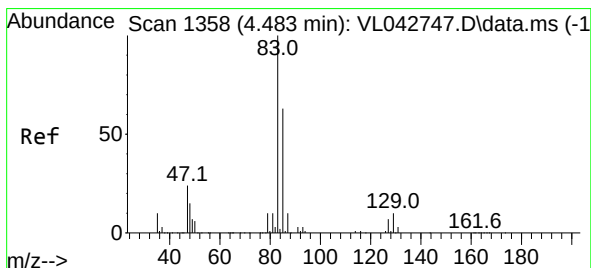
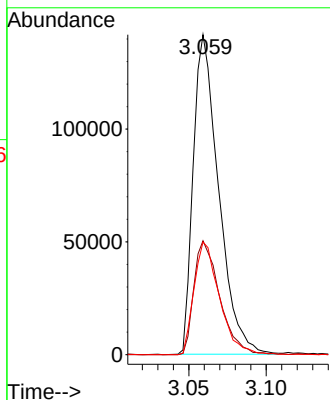
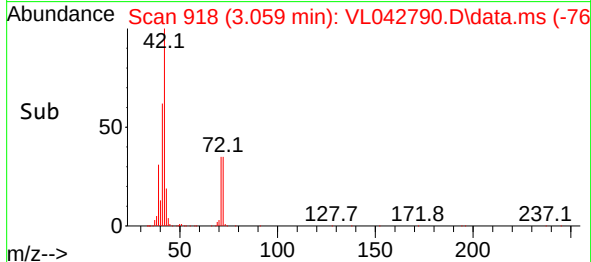
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



Tgt Ion: 42 Resp: 16153
Ion Ratio Lower Upper
42 100
72 36.5 30.9 46.3
71 35.5 28.6 43.0

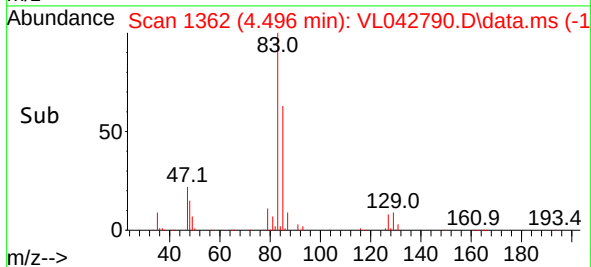
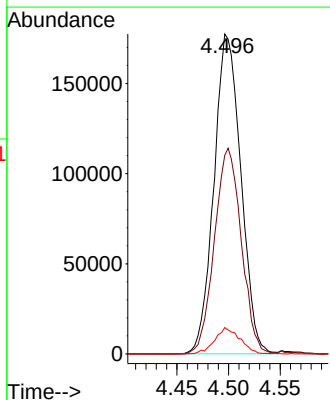
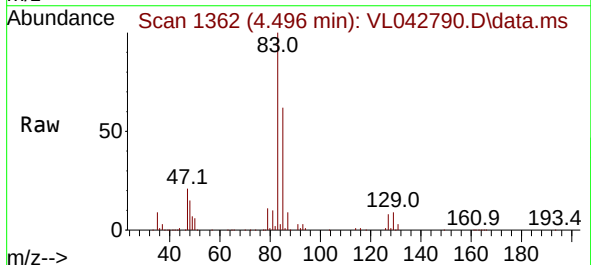
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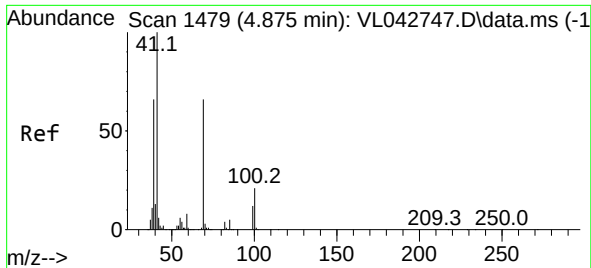
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#42
Bromodichloromethane
Concen: 11.059 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 83 Resp: 321891
Ion Ratio Lower Upper
83 100
85 62.2 50.2 75.4
127 8.2 5.4 8.2#





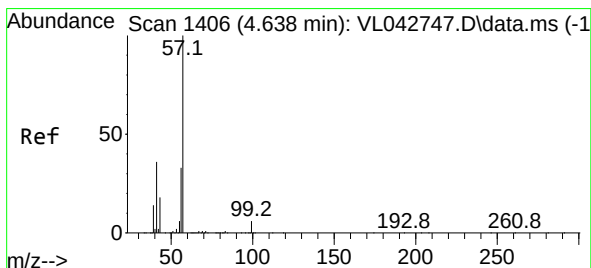
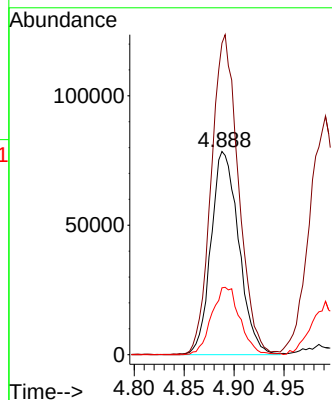
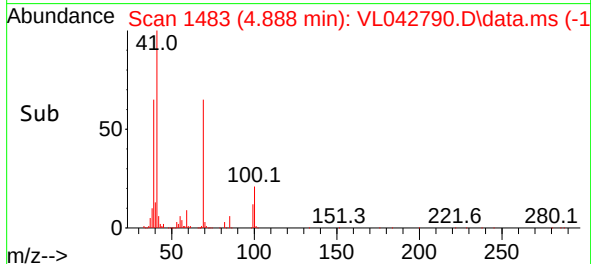
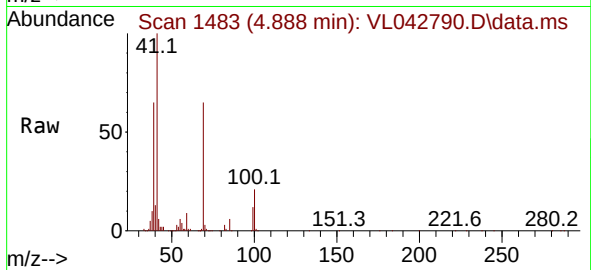
#43
Methyl Methacrylate
Concen: 11.512 ppbv
RT: 4.888 min Scan# 1479
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Tgt Ion: 69 Resp: 15180
Ion Ratio Lower Upper
69 100
41 154.2 125.7 188.5
100 33.8 28.6 42.8

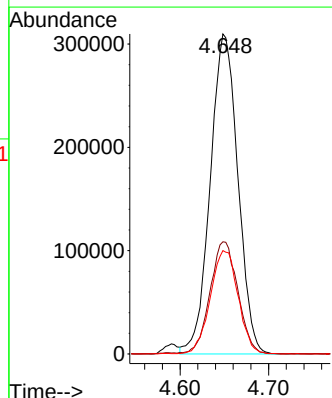
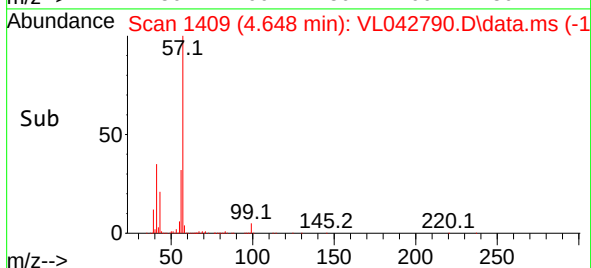
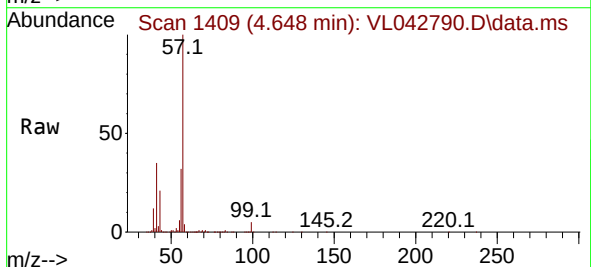
Manual Integrations
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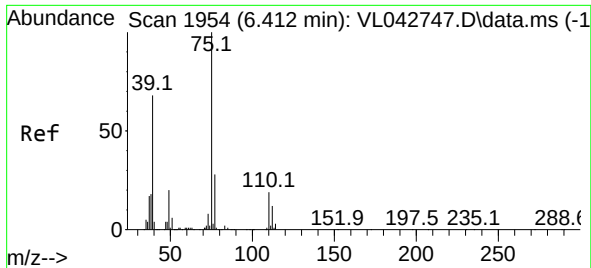
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#44
2,2,4-Trimethylpentane
Concen: 11.121 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 57 Resp: 672509
Ion Ratio Lower Upper
57 100
41 35.5 28.3 42.5
56 32.7 25.8 38.6





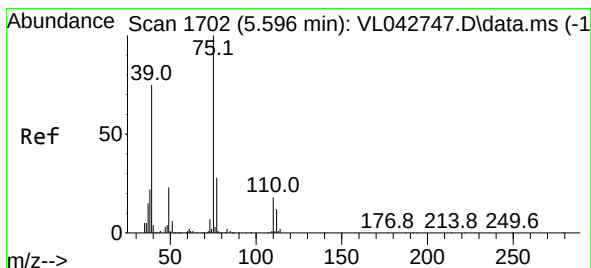
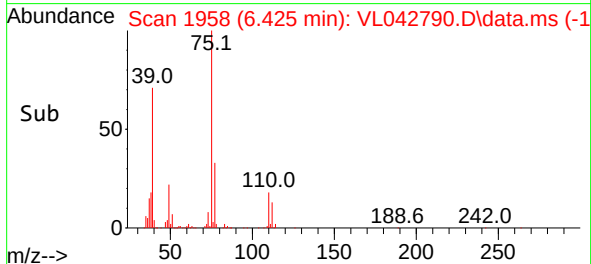
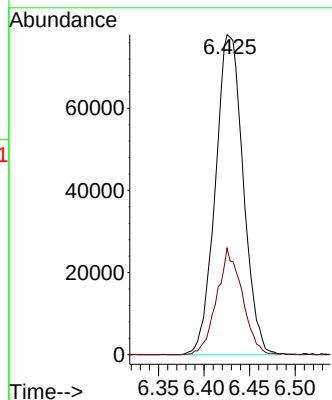
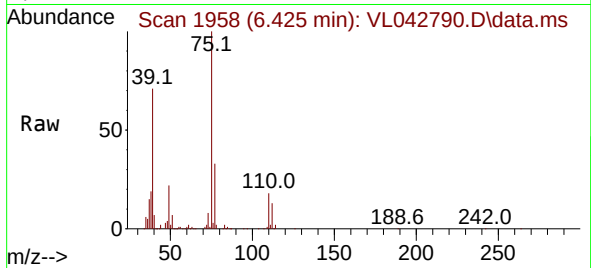
#45
 t-1,3-Dichloropropene
 Concen: 11.199 ppbv
 RT: 6.425 min Scan# 1954
 Delta R.T. 0.013 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

Tgt Ion: 75 Resp: 165600
 Ion Ratio Lower Upper
 75 100
 77 33.3 22.4 33.6

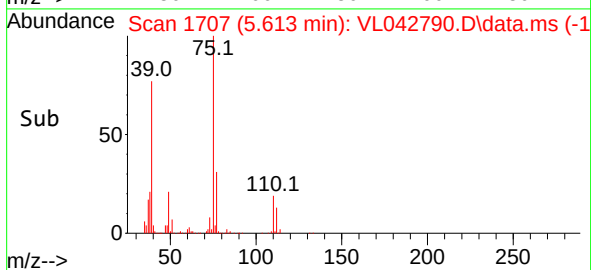
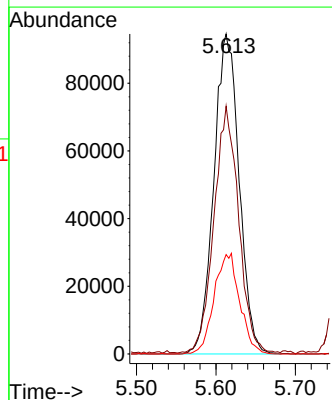
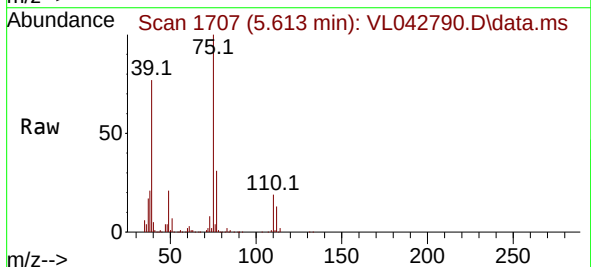
Manual Integrations
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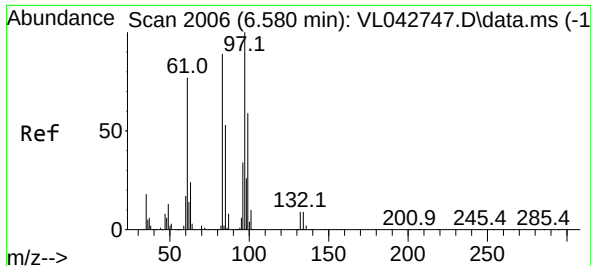
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#46
 cis-1,3-Dichloropropene
 Concen: 11.143 ppbv
 RT: 5.613 min Scan# 1707
 Delta R.T. 0.016 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

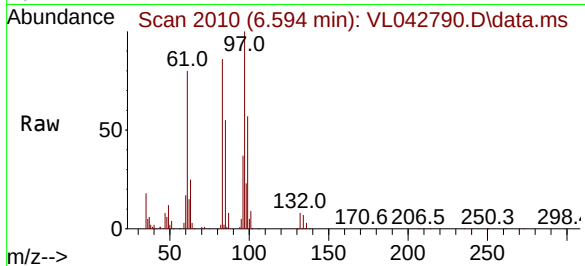
Tgt Ion: 75 Resp: 208804
 Ion Ratio Lower Upper
 75 100
 39 77.0 60.2 90.2
 77 31.0 22.6 34.0





#47
1,1,2-Trichloroethane
Concen: 10.587 ppbv
RT: 6.594 min Scan# 2006
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

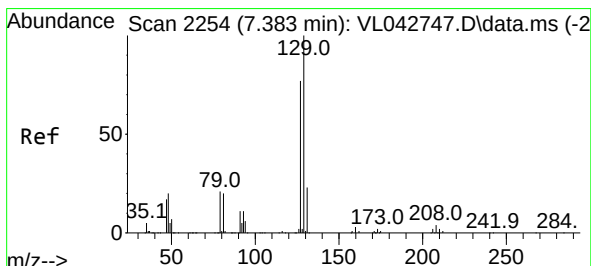
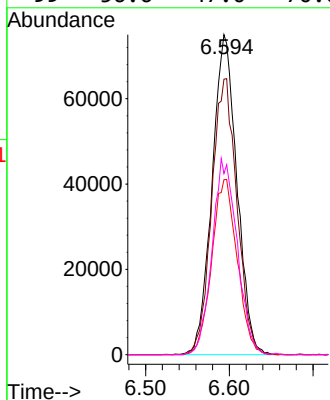
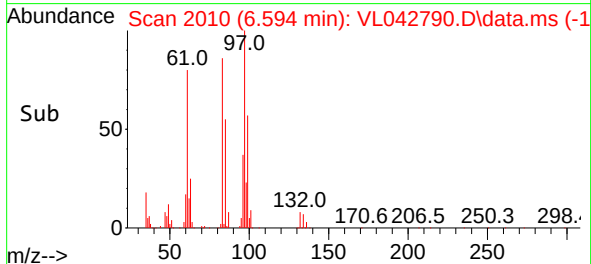
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



Tgt Ion: 97 Resp: 154552
Ion Ratio Lower Upper
97 100
83 86.1 71.1 106.7
85 54.7 43.0 64.4
99 56.6 47.0 70.6

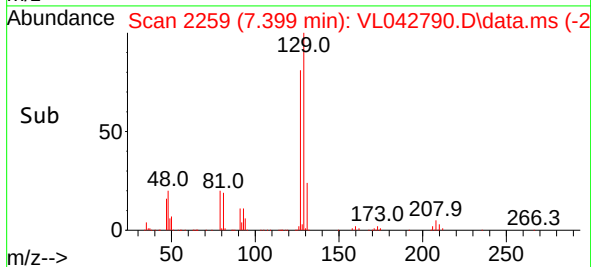
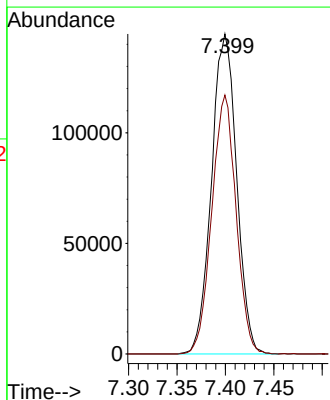
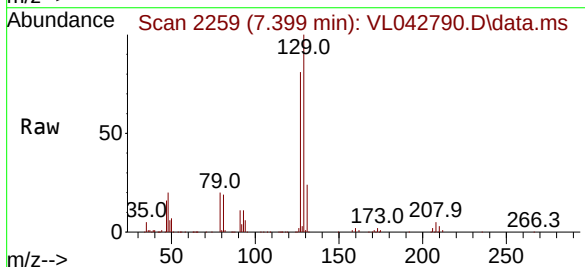
Manual Integrations
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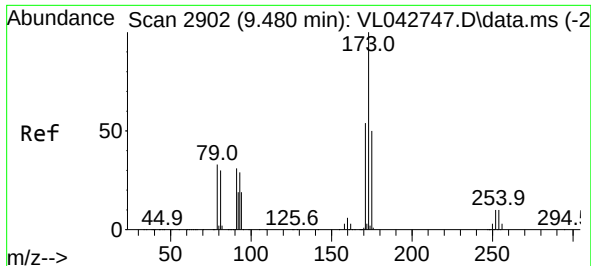
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#48
Dibromochloromethane
Concen: 11.278 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.016 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

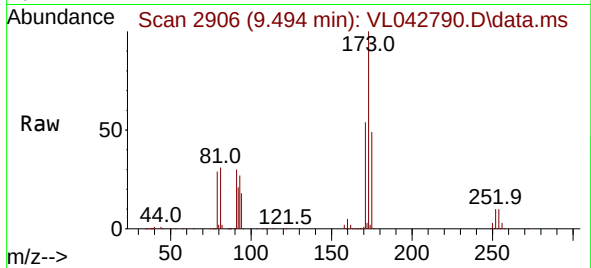
Tgt Ion:129 Resp: 261380
Ion Ratio Lower Upper
129 100
127 78.2 38.7 116.1





#49
Bromoform
Concen: 11.433 ppbv
RT: 9.494 min Scan# 2906
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

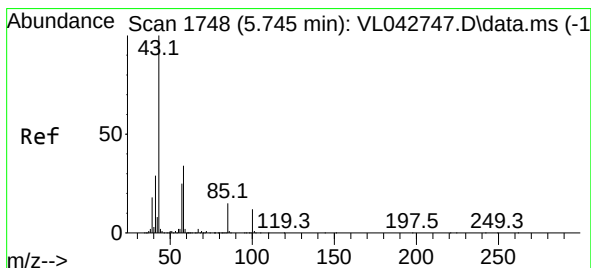
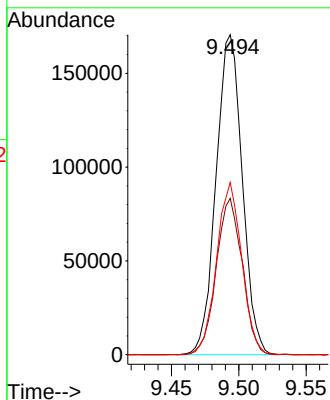
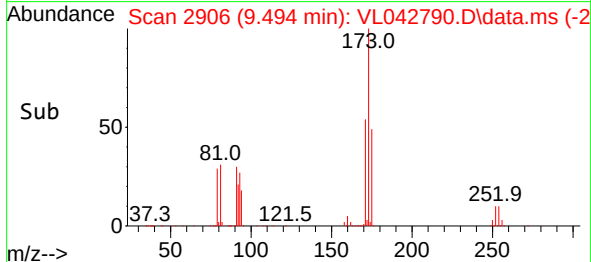
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



Tgt Ion:173 Resp: 23102
Ion Ratio Lower Upper
173 100
175 48.6 38.4 57.6
171 51.8 40.9 61.3

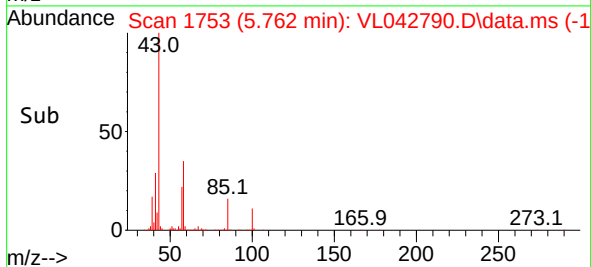
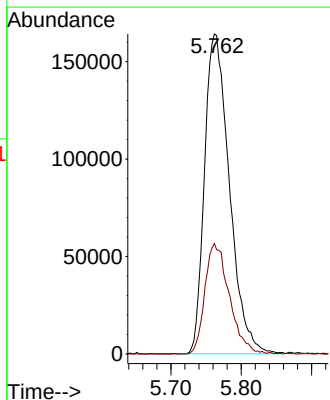
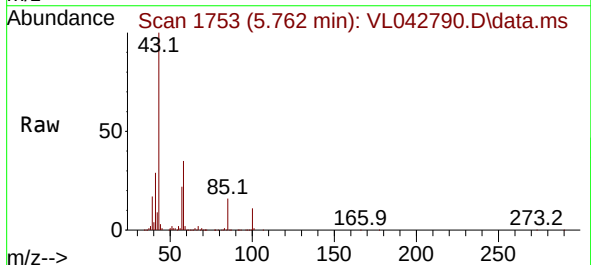
Manual Integrations
APPROVED

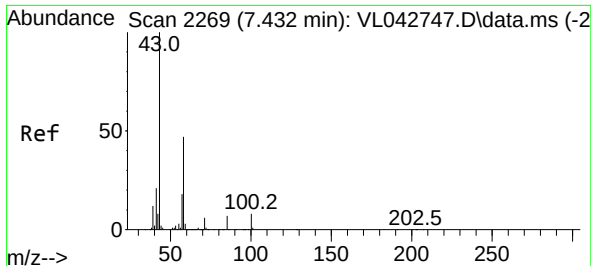
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#50
4-Methyl-2-Pentanone
Concen: 11.270 ppbv
RT: 5.762 min Scan# 1753
Delta R.T. 0.016 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

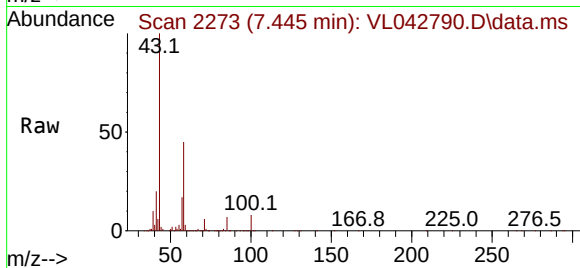
Tgt Ion: 43 Resp: 402543
Ion Ratio Lower Upper
43 100
58 34.0 27.8 41.8





#51
2-Hexanone
Concen: 11.895 ppbv
RT: 7.445 min Scan# 2107
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

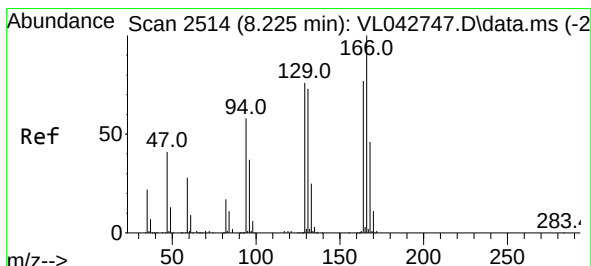
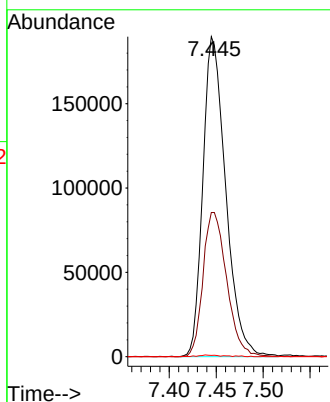
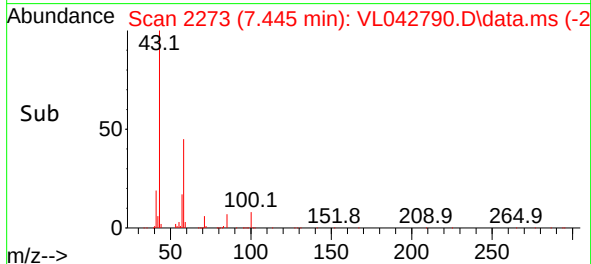
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



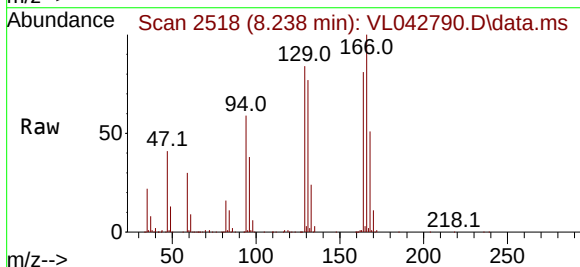
Tgt Ion: 43 Resp: 321070
Ion Ratio Lower Upper
43 100
58 46.7 38.0 57.0
98 0.6 0.2 0.4

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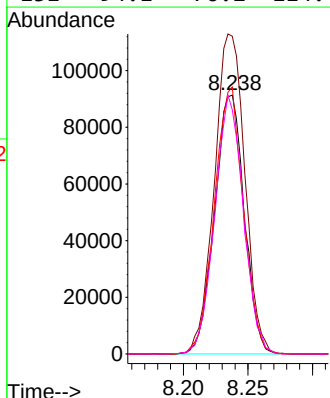
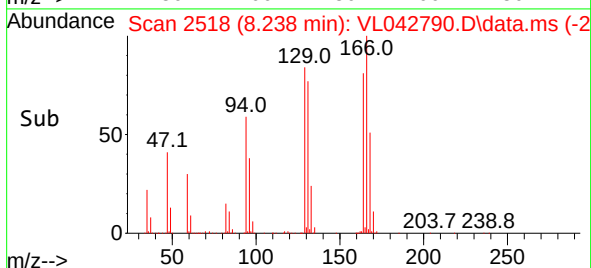
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

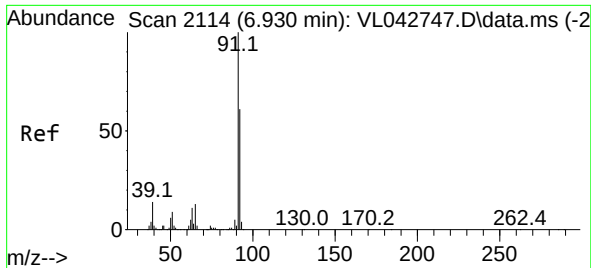


#52
Tetrachloroethene
Concen: 9.479 ppbv
RT: 8.238 min Scan# 2518
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



Tgt Ion:164 Resp: 145761
Ion Ratio Lower Upper
164 100
166 122.6 104.0 156.0
129 103.0 79.2 118.8
131 94.1 76.2 114.4





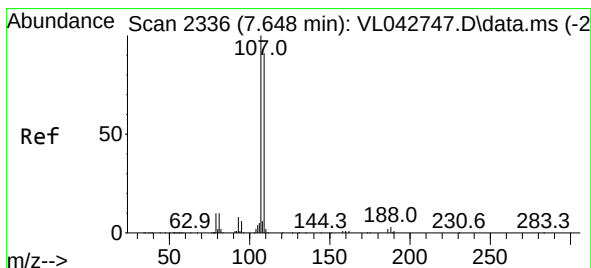
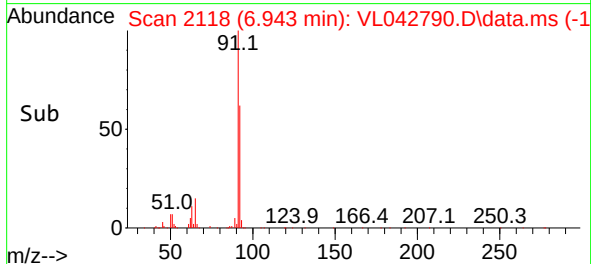
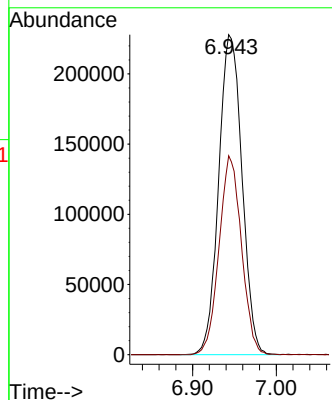
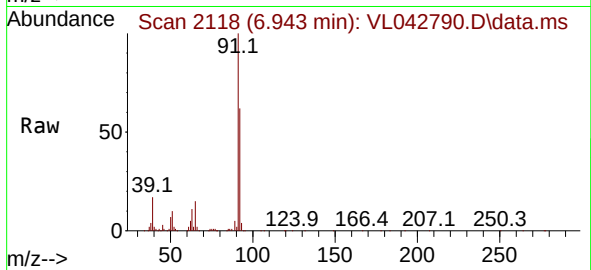
#53
Toluene
Concen: 11.041 ppbv
RT: 6.943 min Scan# 2114
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Tgt Ion: 91 Resp: 43986
Ion Ratio Lower Upper
91 100
92 59.7 48.0 72.0

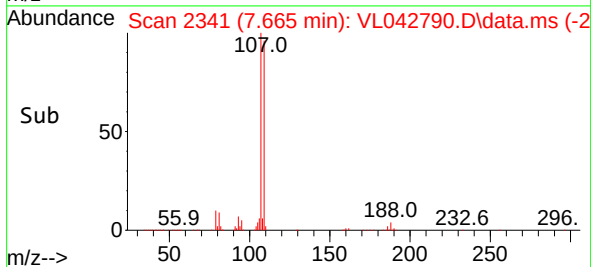
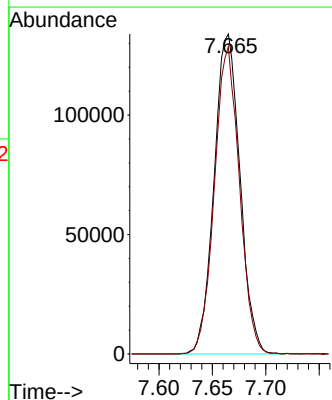
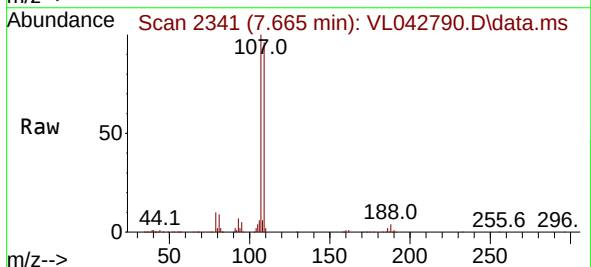
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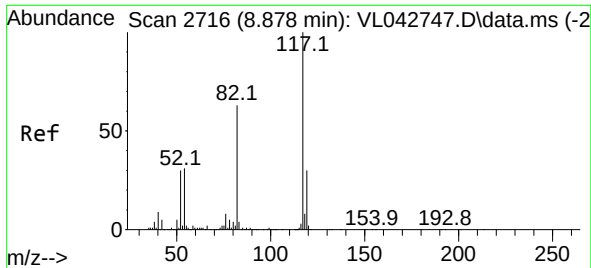
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#54
1,2-Dibromoethane
Concen: 10.928 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.016 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion:107 Resp: 225399
Ion Ratio Lower Upper
107 100
109 95.9 72.7 109.1





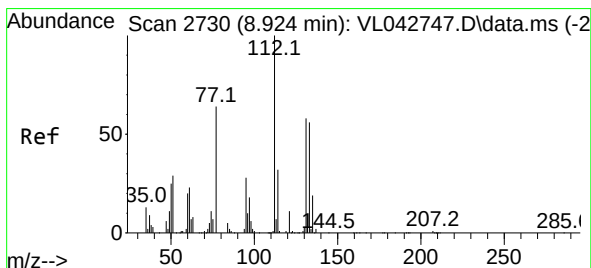
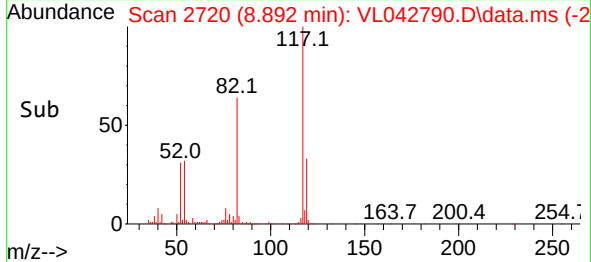
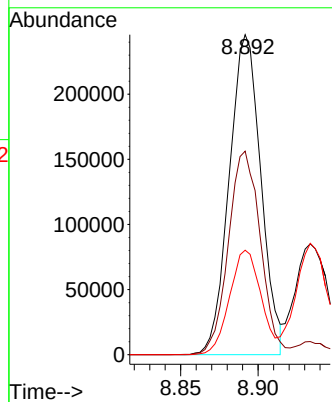
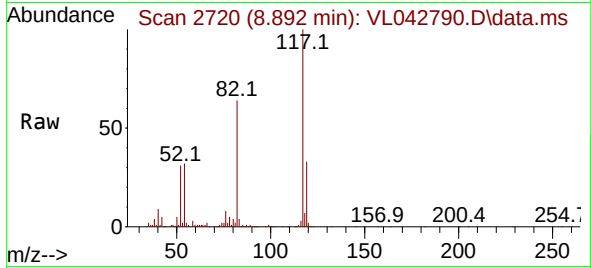
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2716
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Tgt Ion:117 Resp: 349880
Ion Ratio Lower Upper
117 100
82 68.2 53.3 79.9
119 32.9 25.8 38.6

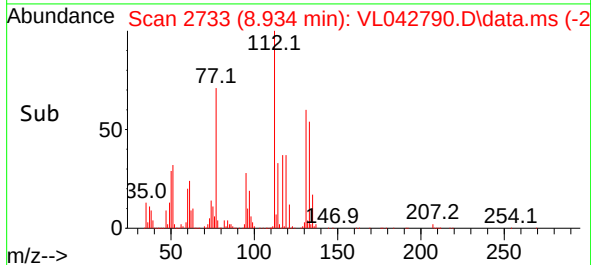
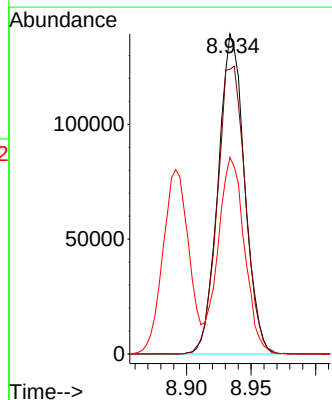
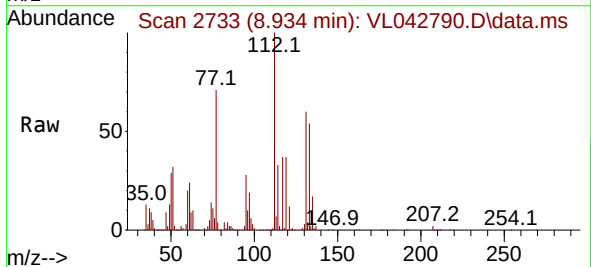
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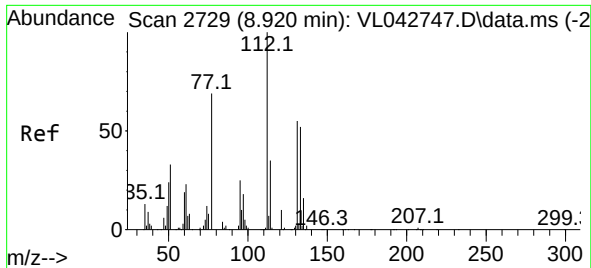
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 10.906 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

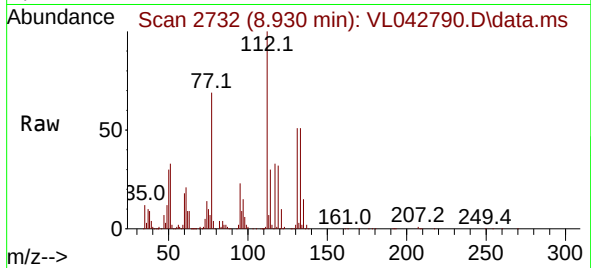
Tgt Ion:131 Resp: 198394
Ion Ratio Lower Upper
131 100
133 95.3 76.8 115.2
119 62.0 49.7 74.5





#57
Chlorobenzene
Concen: 10.386 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

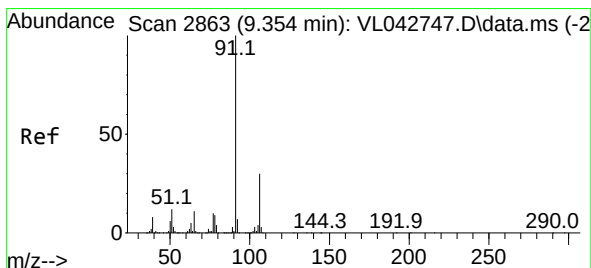
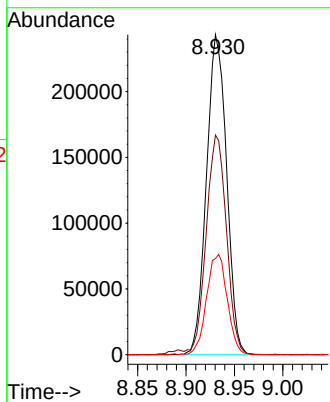
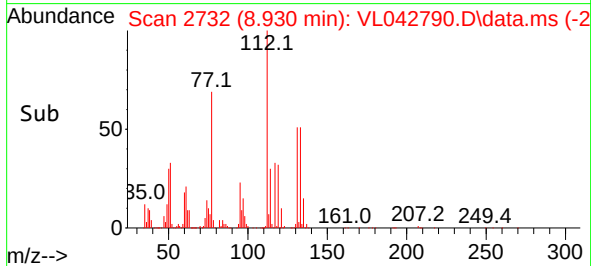
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



Tgt Ion:112 Resp: 351678
Ion Ratio Lower Upper
112 100
77 68.6 56.4 84.6
114 30.0 31.2 38.2

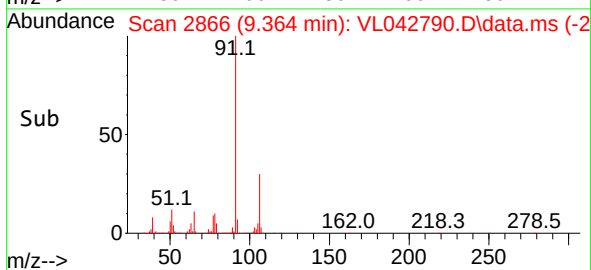
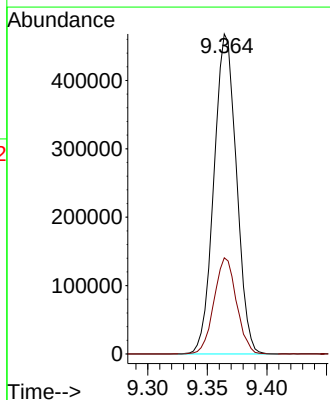
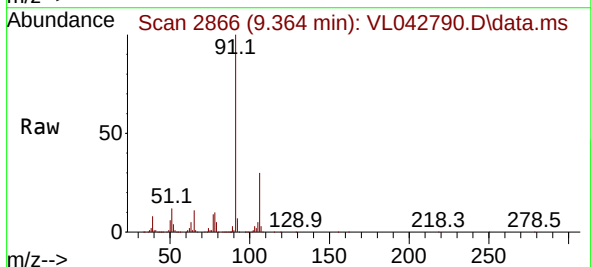
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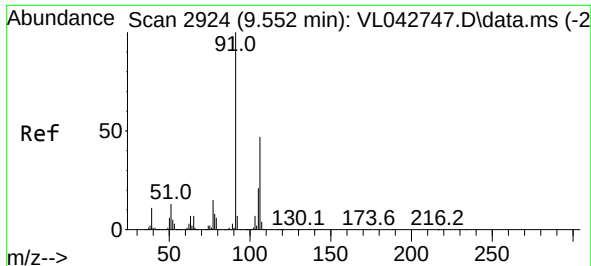
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#58
Ethyl Benzene
Concen: 11.121 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 91 Resp: 614495
Ion Ratio Lower Upper
91 100
106 30.1 23.8 35.6





#59

m/p-Xylene

Concen: 22.758 ppbv m

RT: 9.562 min Scan# 2924

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

Tgt Ion: 91 Resp: 1004952

Ion Ratio Lower Upper

91 100

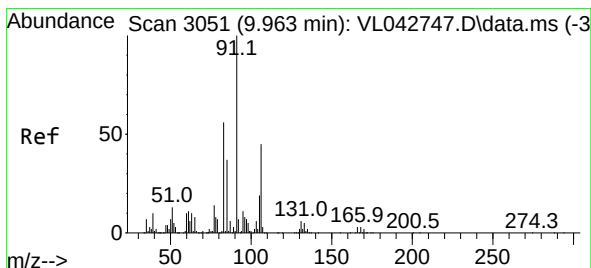
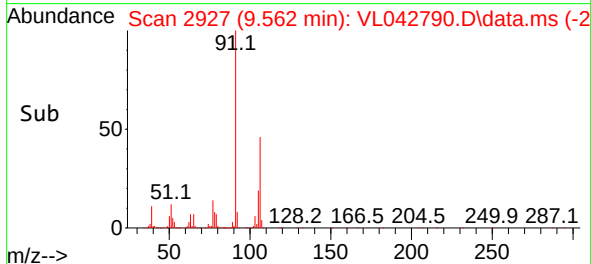
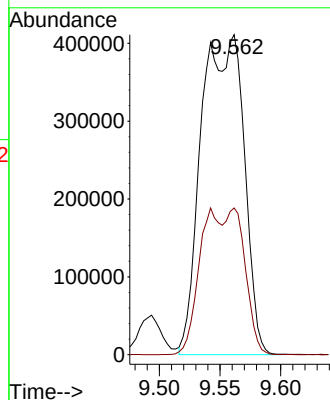
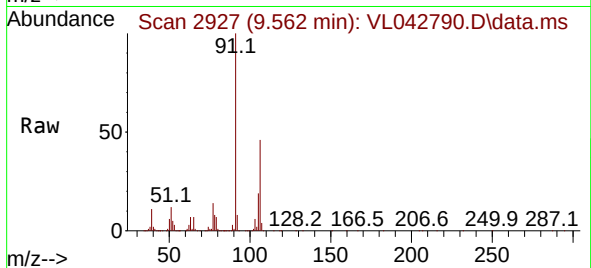
106 0.0 37.4 56.2

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Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#60

o-Xylene

Concen: 11.188 ppbv

RT: 9.976 min Scan# 3055

Delta R.T. 0.013 min

Lab File: VL042790.D

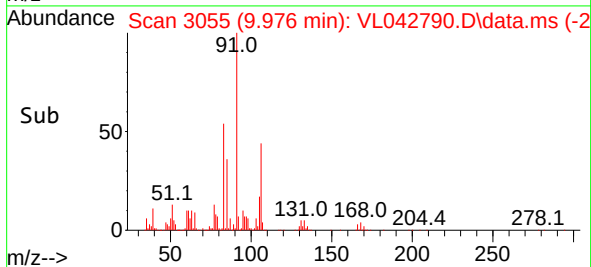
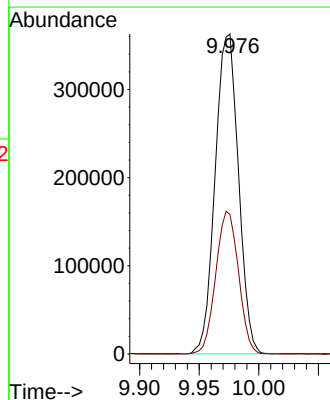
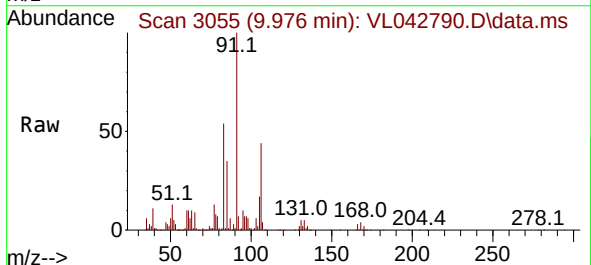
Acq: 31 Jul 2025 10:15

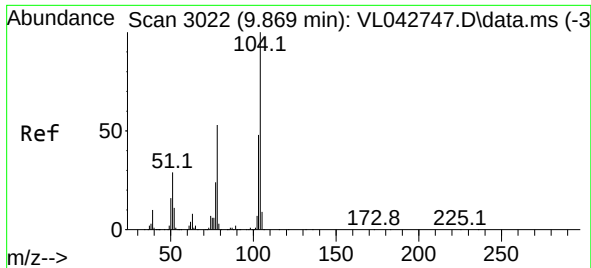
Tgt Ion: 91 Resp: 493686

Ion Ratio Lower Upper

91 100

106 43.5 22.0 66.0





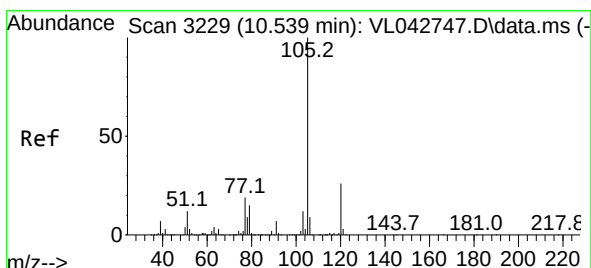
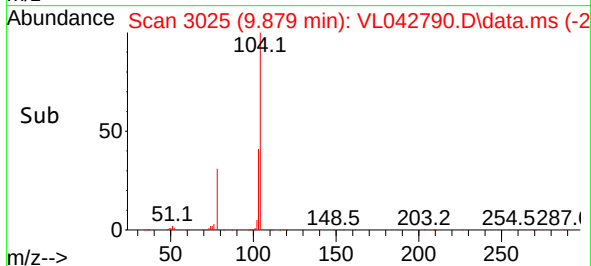
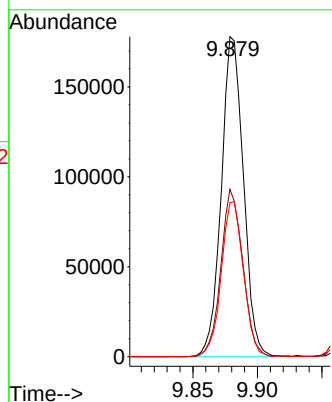
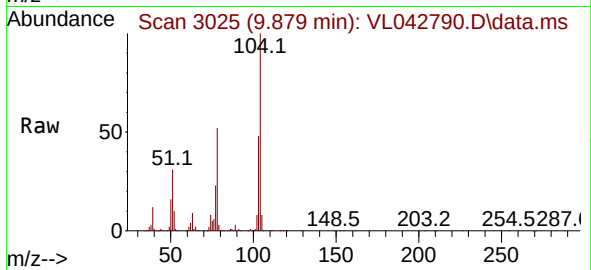
#61
Styrene
Concen: 11.406 ppbv
RT: 9.879 min Scan# 3022
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Tgt Ion:104 Resp: 211712
Ion Ratio Lower Upper
104 100
78 51.9 41.5 62.3
103 48.8 37.5 56.3

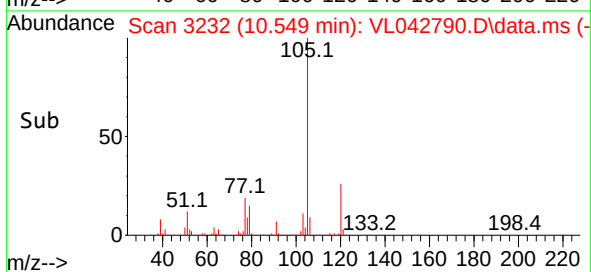
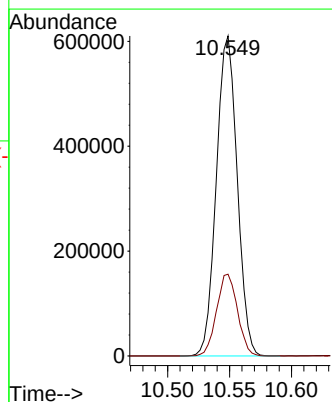
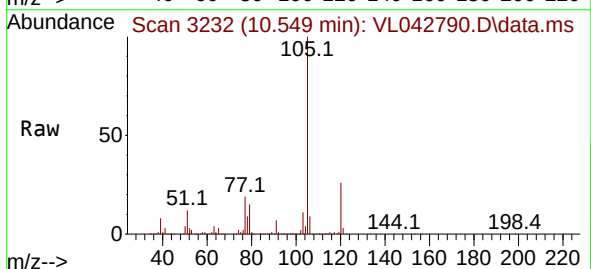
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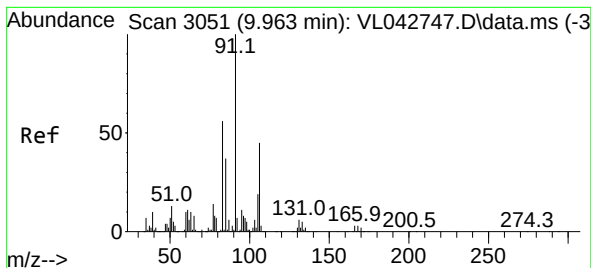
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#62
Isopropylbenzene
Concen: 11.007 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion:105 Resp: 716413
Ion Ratio Lower Upper
105 100
120 25.6 20.5 30.7





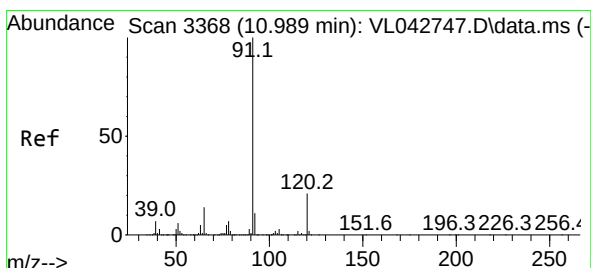
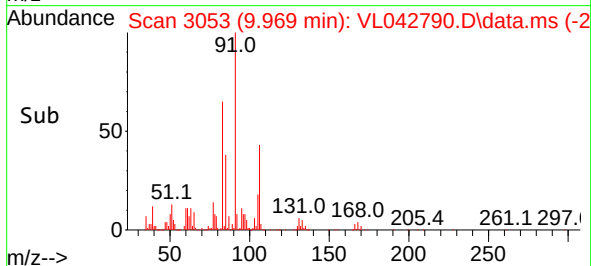
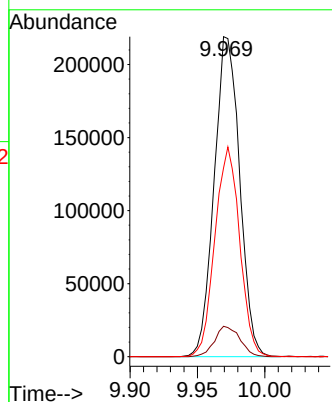
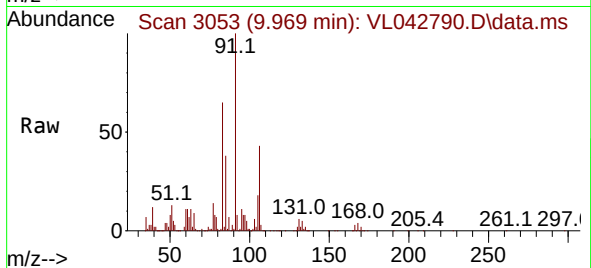
#63
1,1,2,2-Tetrachloroethane
Concen: 10.176 ppbv
RT: 9.969 min Scan# 3051
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Tgt Ion: 83 Resp: 288264
Ion Ratio Lower Upper
83 100
131 9.5 5.0 15.0
85 63.7 32.6 97.7

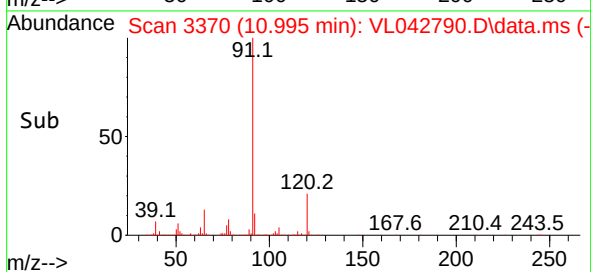
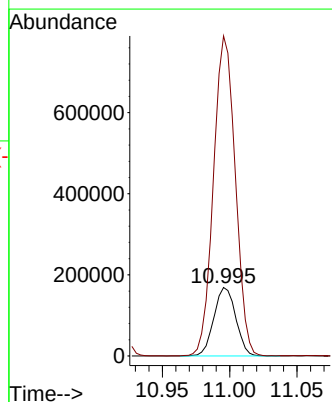
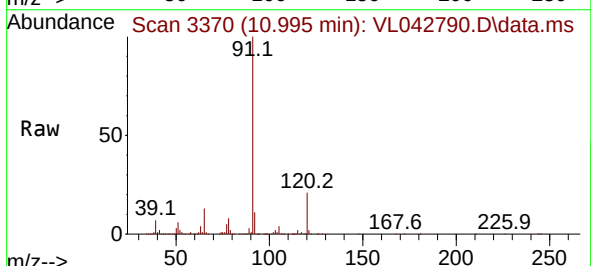
Manual Integrations
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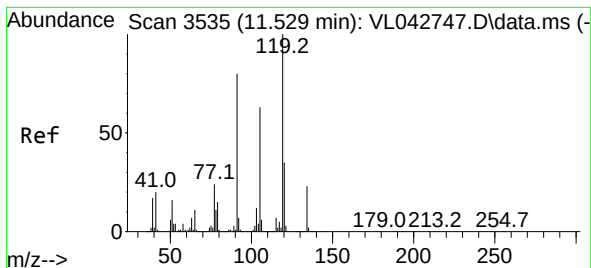
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#64
n-propylbenzene
Concen: 11.237 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

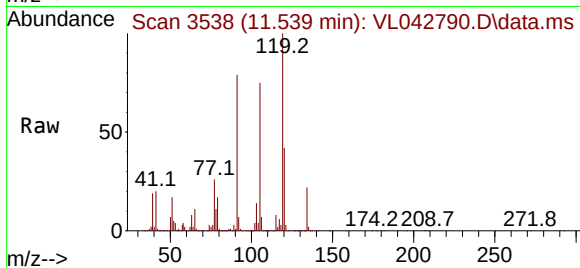
Tgt Ion:120 Resp: 190663
Ion Ratio Lower Upper
120 100
91 466.1 372.7 559.1





#65
tert-Butylbenzene
Concen: 11.322 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

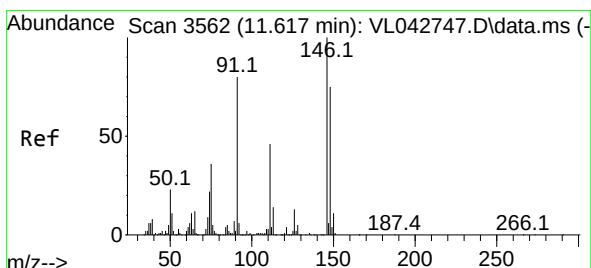
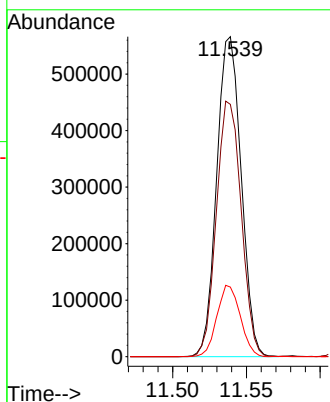
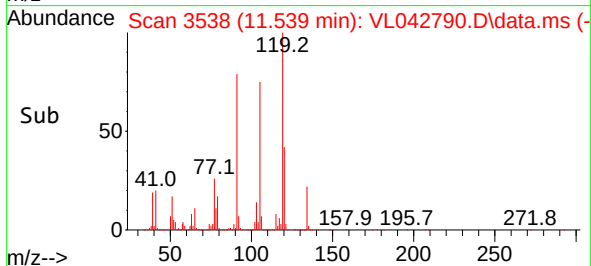
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01



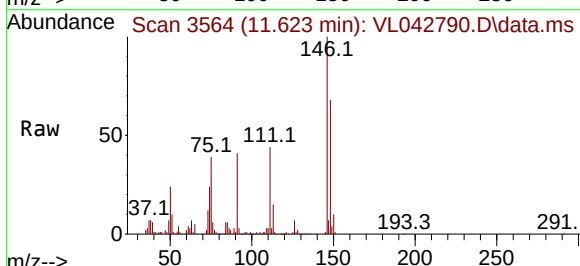
Tgt Ion: 119 Resp: 65456
Ion Ratio Lower Upper
119 100
91 81.1 64.0 96.0
134 21.3 17.3 25.9

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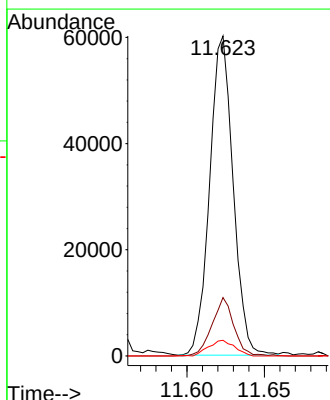
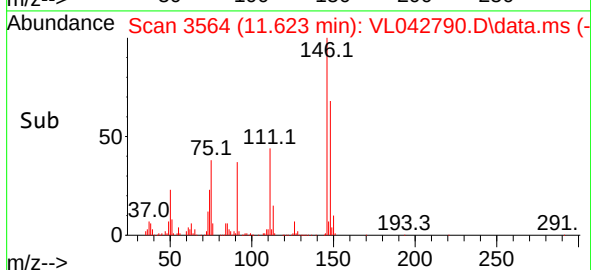
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

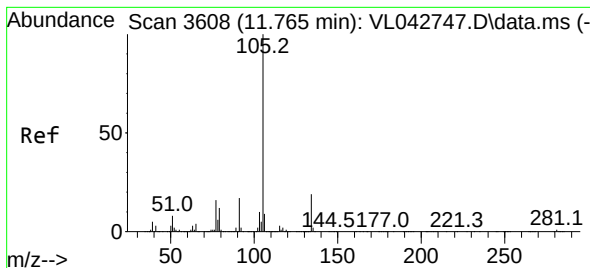


#66
Benzyl Chloride
Concen: 13.365 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15



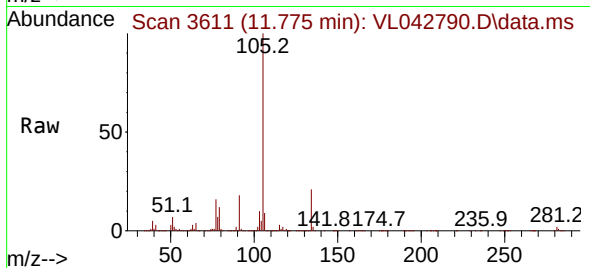
Tgt Ion: 91 Resp: 63429
Ion Ratio Lower Upper
91 100
126 17.1 14.4 21.6
128 5.5 5.2 7.8





#67
 sec-Butylbenzene
 Concen: 11.065 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.010 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

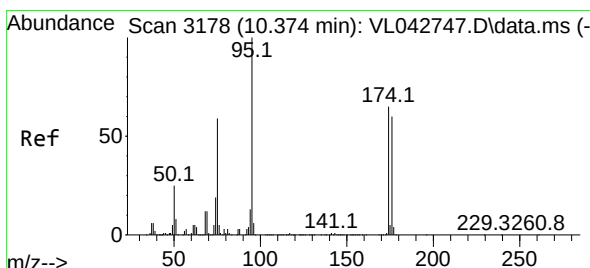
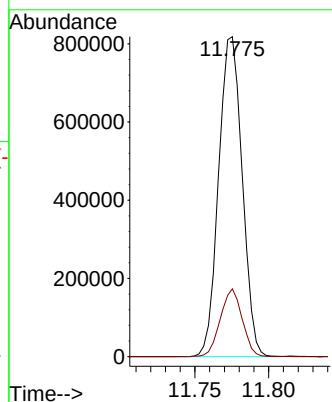
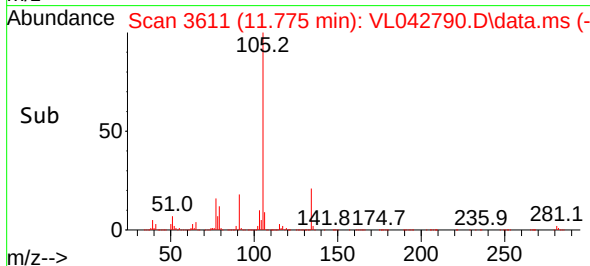
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01



Tgt Ion:105 Resp: 909814
 Ion Ratio Lower Upper
 105 100
 134 19.7 15.5 23.3

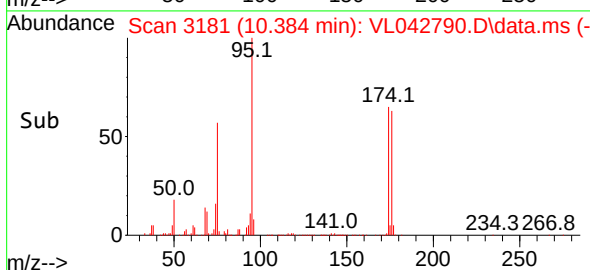
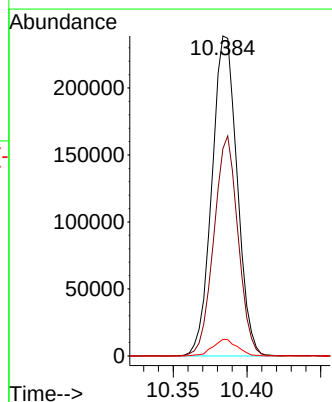
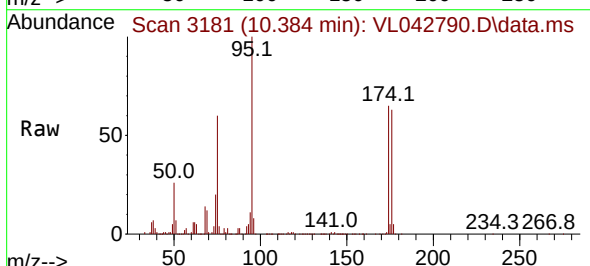
Manual Integrations
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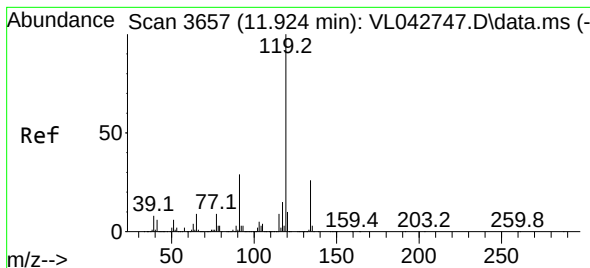
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.254 ppbv
 RT: 10.384 min Scan# 3181
 Delta R.T. 0.010 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

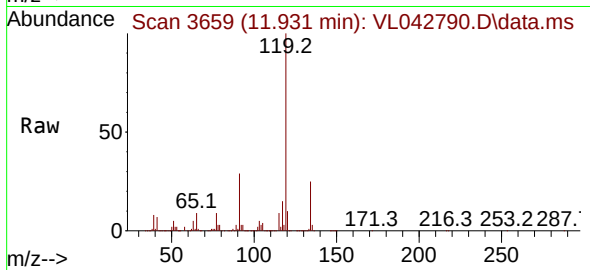
Tgt Ion: 95 Resp: 284130
 Ion Ratio Lower Upper
 95 100
 174 66.0 53.8 80.6
 175 5.1 4.0 6.0





#69
 p-Isopropyltoluene
 Concen: 11.553 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.007 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

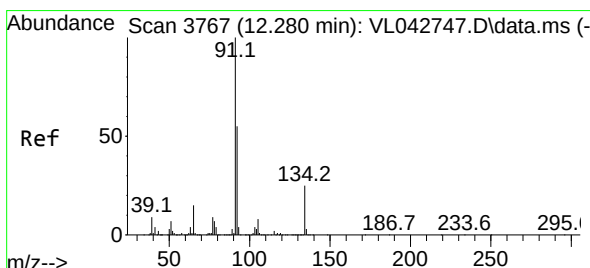
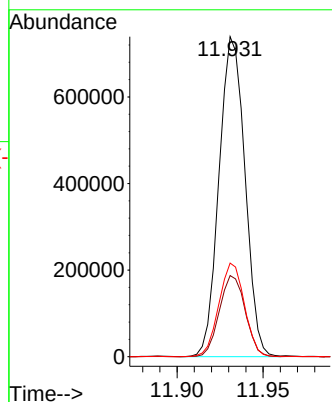
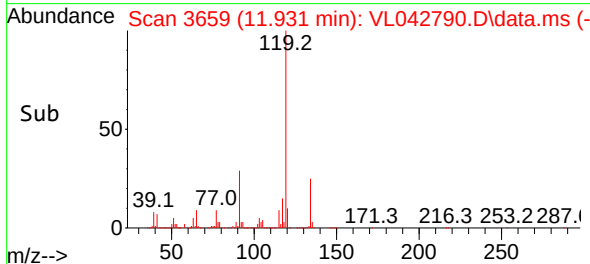
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01



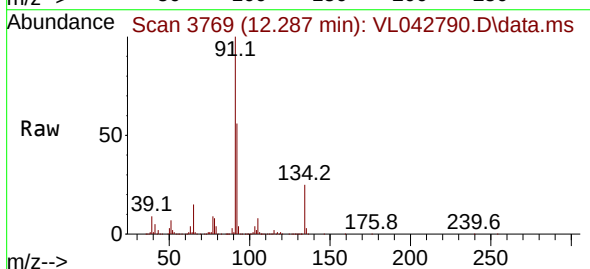
Tgt Ion:119 Resp: 77456
 Ion Ratio Lower Upper
 119 100
 134 25.3 20.6 31.0
 91 29.0 23.2 34.8

Manual Integrations
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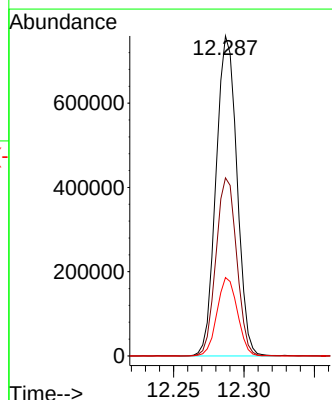
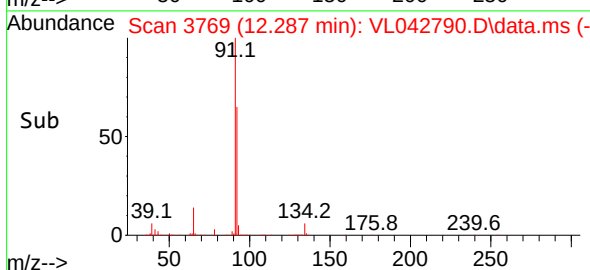
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

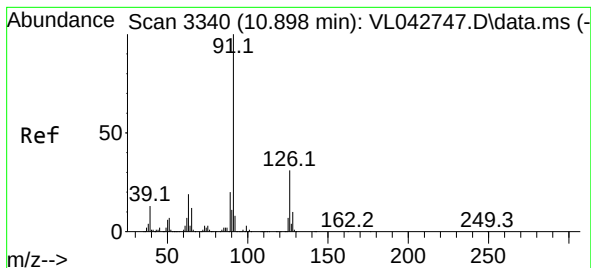


#70
 n-Butylbenzene
 Concen: 12.130 ppbv
 RT: 12.287 min Scan# 3769
 Delta R.T. 0.007 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15



Tgt Ion: 91 Resp: 785569
 Ion Ratio Lower Upper
 91 100
 92 55.2 43.4 65.2
 134 23.9 19.6 29.4





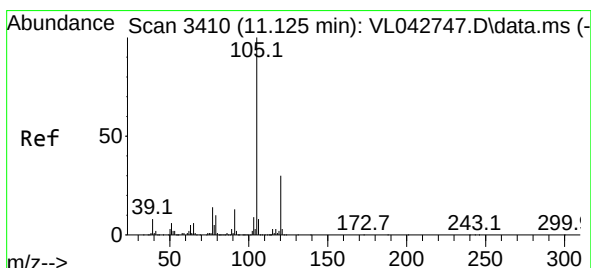
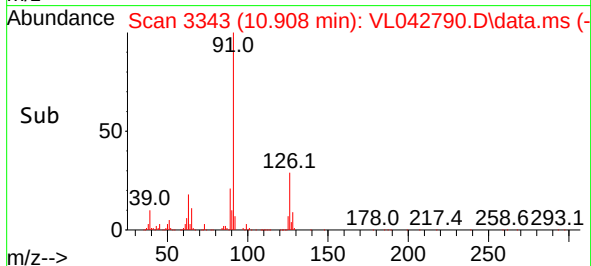
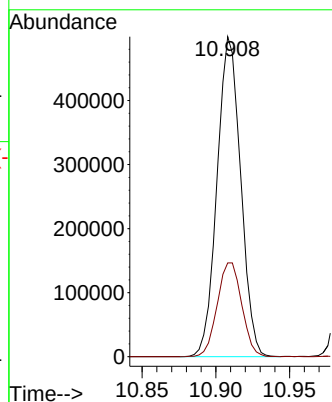
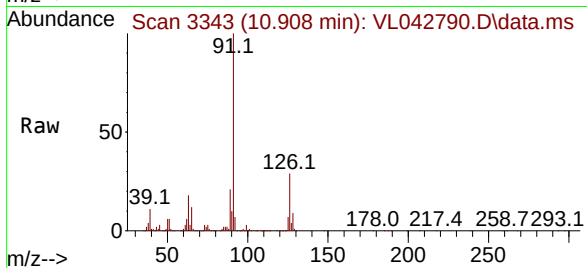
#71
2-Chlorotoluene
Concen: 11.153 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Tgt Ion: 91 Resp: 556610
Ion Ratio Lower Upper
91 100
126 30.4 12.0 48.2

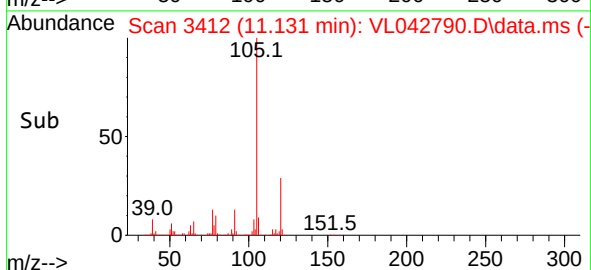
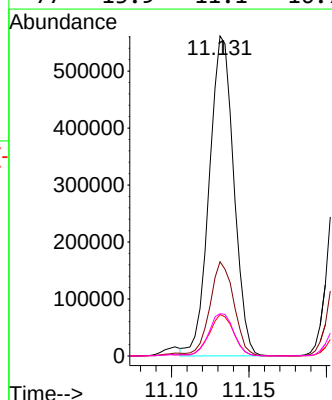
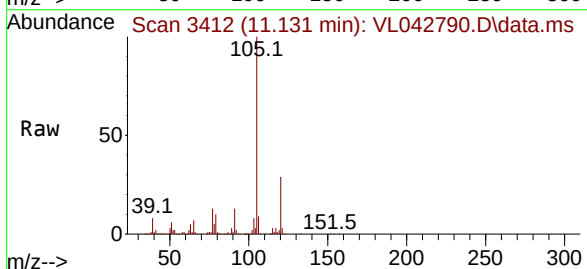
Manual Integrations
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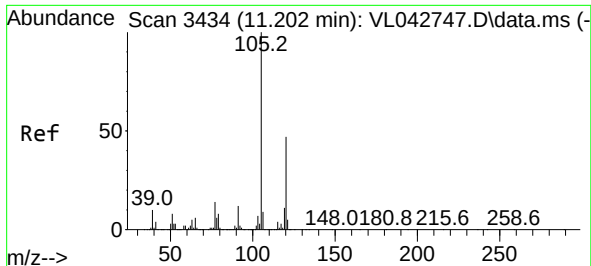
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#72
4-Ethyltoluene
Concen: 11.729 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion:105 Resp: 618091
Ion Ratio Lower Upper
105 100
120 29.5 24.4 36.6
91 13.3 10.6 15.8
77 13.9 11.1 16.7





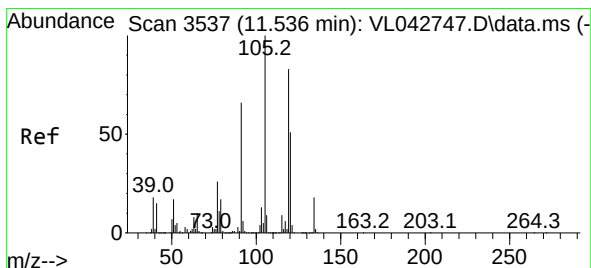
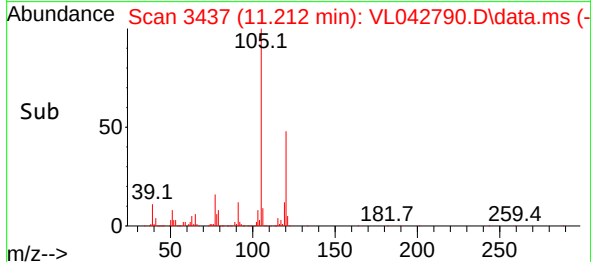
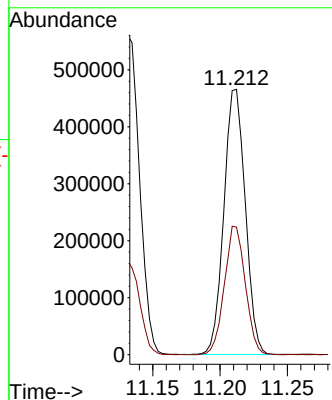
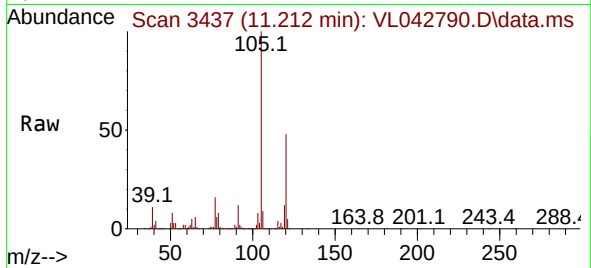
#73
1,3,5-Trimethylbenzene
Concen: 11.871 ppbv
RT: 11.212 min Scan# 3434
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

Tgt Ion:105 Resp: 51504
Ion Ratio Lower Upper
105 100
120 48.1 37.8 56.8

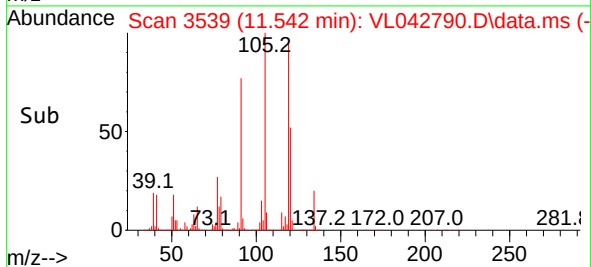
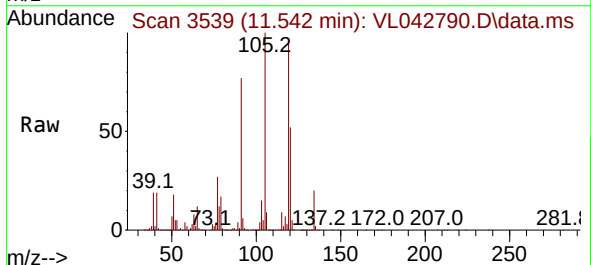
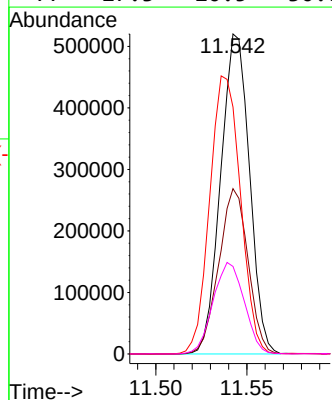
Manual Integrations
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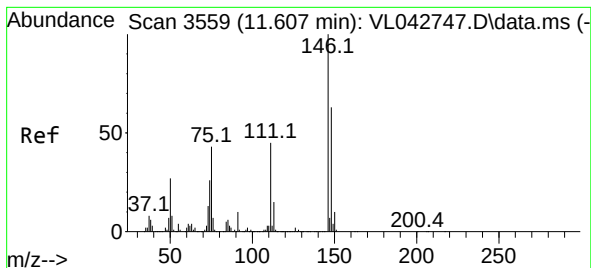
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#74
1,2,4-Trimethylbenzene
Concen: 12.057 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion:105 Resp: 570715
Ion Ratio Lower Upper
105 100
120 51.6 40.8 61.2
91 77.0 53.0 79.4
77 27.3 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 10.852 ppbv

RT: 11.614 min Scan# 3559

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

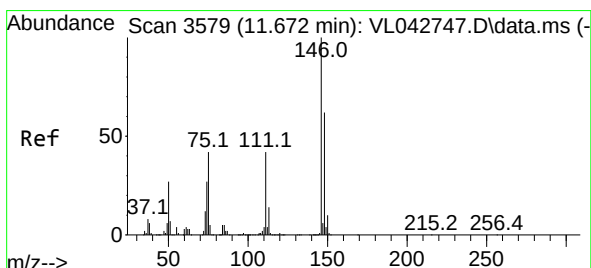
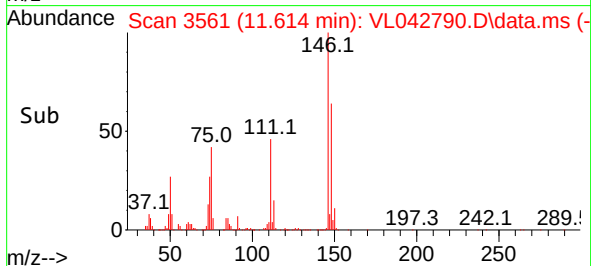
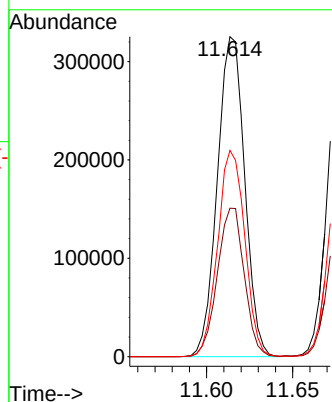
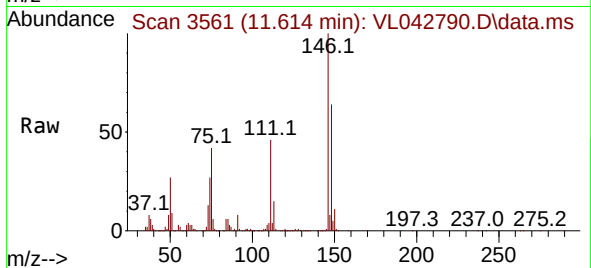
VL0731ABS01

Tgt Ion:146	Resp: 36009
Ion Ratio	Lower Upper
146	100
111	45.7 22.7 68.0
148	64.0 31.9 95.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#76

1,4-Dichlorobenzene

Concen: 11.273 ppbv

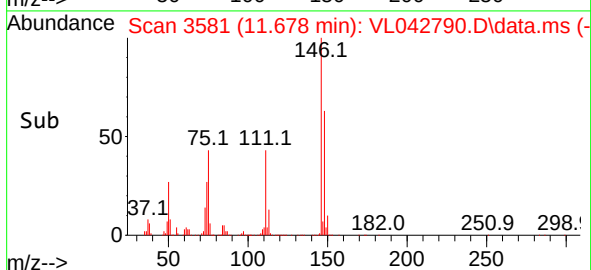
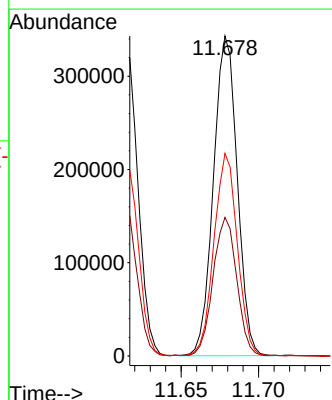
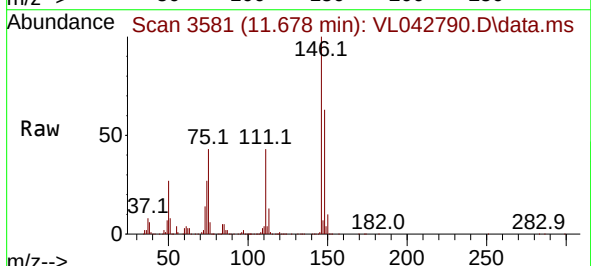
RT: 11.678 min Scan# 3581

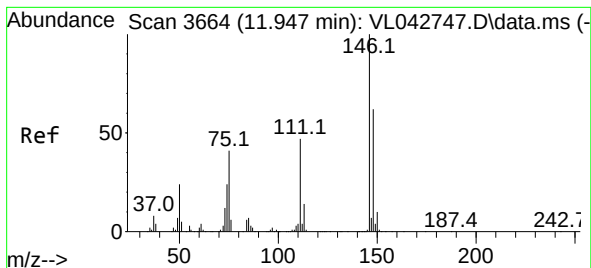
Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Tgt Ion:146	Resp: 366048
Ion Ratio	Lower Upper
146	100
111	43.3 21.4 64.2
148	62.6 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 10.770 ppbv

RT: 11.953 min Scan# 30

Delta R.T. 0.007 min

Lab File: VL042790.D

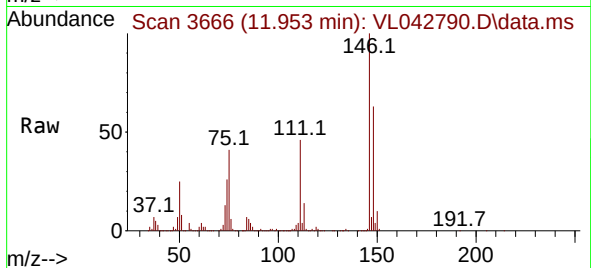
Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01



Tgt Ion:146 Resp: 35124

Ion Ratio Lower Upper

146 100

111 46.8 23.7 71.1

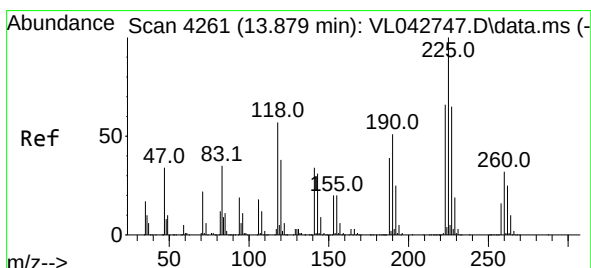
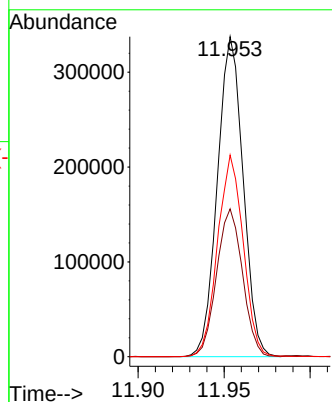
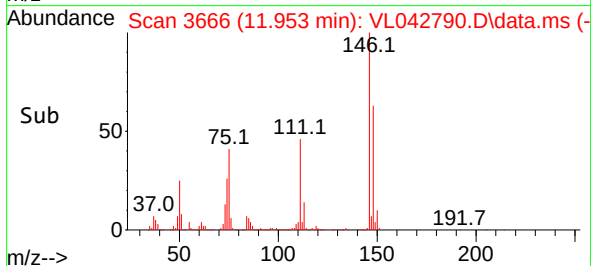
148 62.8 32.6 97.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#78

Hexachloro-1,3-Butadiene

Concen: 9.538 ppbv

RT: 13.886 min Scan# 4263

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

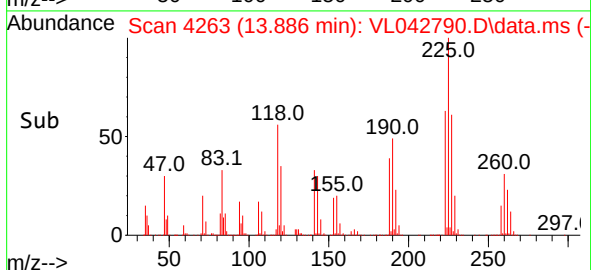
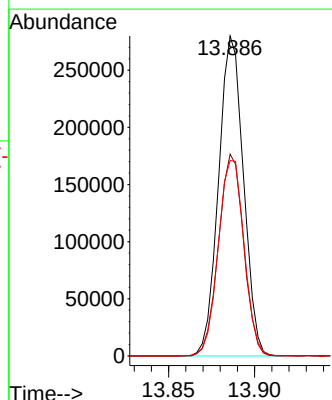
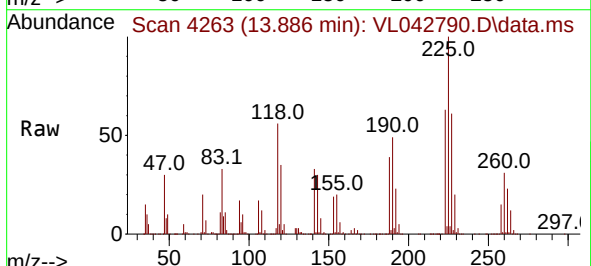
Tgt Ion:225 Resp: 281564

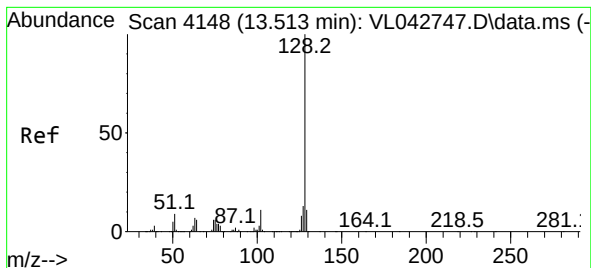
Ion Ratio Lower Upper

225 100

223 63.5 50.7 76.1

227 63.9 50.5 75.7





#79

Naphthalene

Concen: 10.494 ppbv

RT: 13.520 min Scan# 4148

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

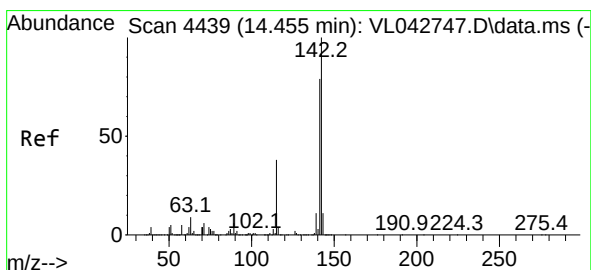
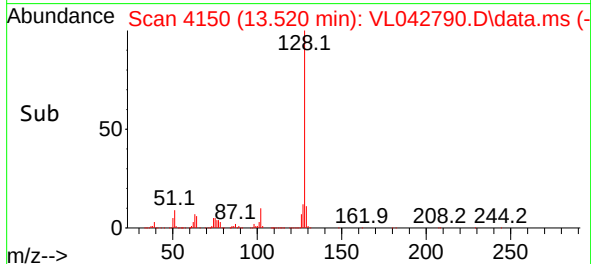
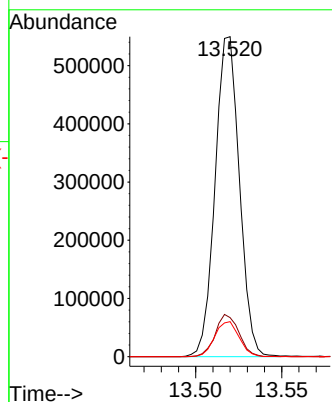
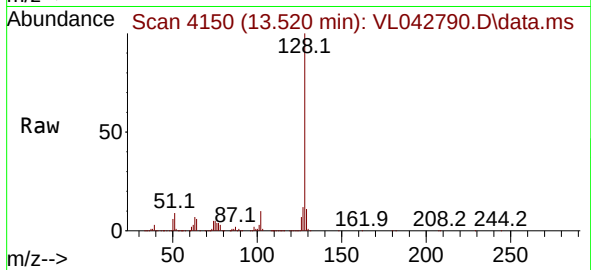
VL0731ABS01

Tgt Ion:	128	Resp:	54012
Ion Ratio	Lower	Upper	
128	100		
127	12.2	10.5	15.7
129	10.9	8.6	13.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#80

Naphthalene,2-methyl-

Concen: 8.786 ppbv

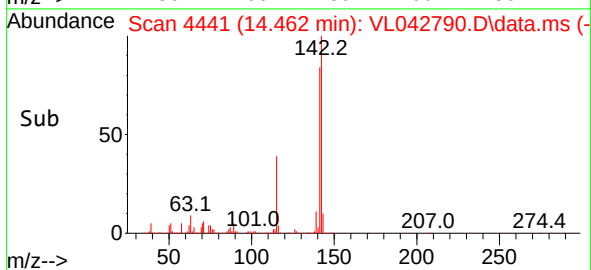
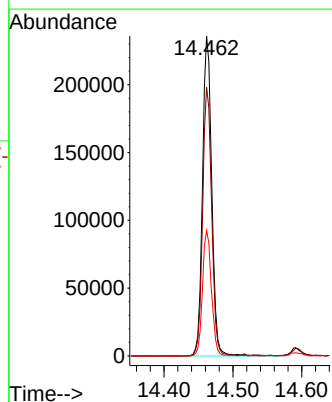
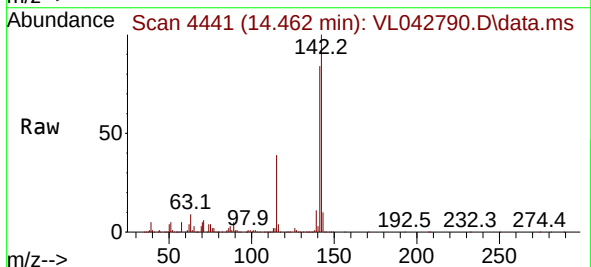
RT: 14.462 min Scan# 4441

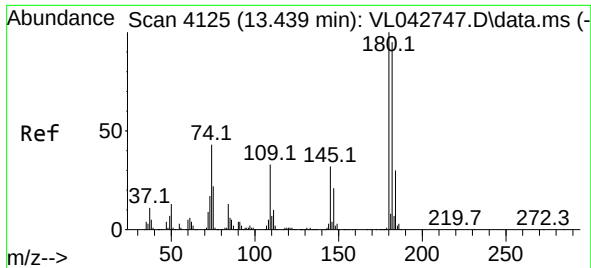
Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

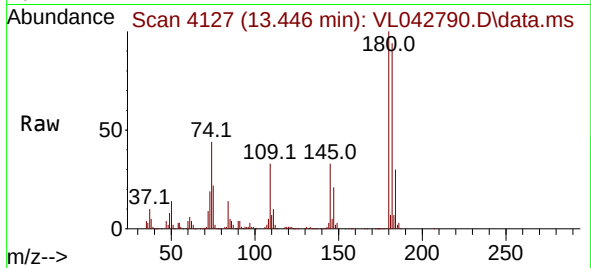
Tgt Ion:	142	Resp:	221690
Ion Ratio	Lower	Upper	
142	100		
141	82.4	65.8	98.8
115	38.3	31.2	46.8





#81
 1,2,4-Trichlorobenzene
 Concen: 10.565 ppbv
 RT: 13.446 min Scan# 41
 Delta R.T. 0.007 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

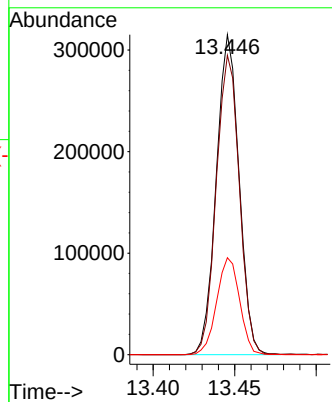
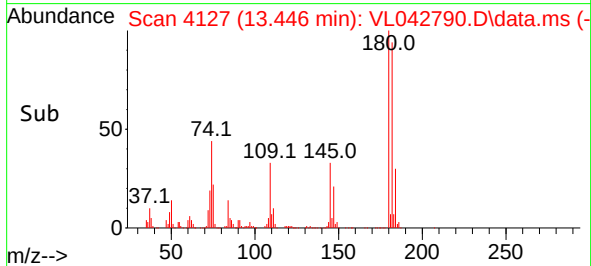
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01



Tgt Ion:180 Resp: 305698
 Ion Ratio Lower Upper
 180 100
 182 95.1 76.2 114.2
 184 30.5 24.8 37.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0813ABS01	SDG No.:	Q2727
Lab Sample ID:	VL0813ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042851.D	1		08/13/25 14:32	VL081325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-45-6	Chlorodifluoromethane	9.40	33.2		0.42	1.77	ug/m3
75-71-8	Dichlorodifluoromethane	9.30	46.0		0.54	2.47	ug/m3
64-17-5	Ethanol	7.50	14.1		0.60	0.94	ug/m3
74-87-3	Chloromethane	9.00	18.6		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	8.70	22.2		0.080	0.080	ug/m3
141-78-6	Ethyl Acetate	9.20	36.5		0.48	1.98	ug/m3
74-83-9	Bromomethane	8.50	33.0		0.31	1.94	ug/m3
75-00-3	Chloroethane	8.90	23.5		0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	9.20	27.1		0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	9.10	51.1		0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	9.20	70.5		1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.50	66.4		1.05	3.49	ug/m3
593-60-2	Bromoethene	9.20	40.2		0.87	2.19	ug/m3
115-07-1	Propene	8.70	14.9		0.14	0.86	ug/m3
75-65-0	tert-Butyl alcohol	8.70	26.4		0.49	1.52	ug/m3
142-82-5	Heptane	9.10	37.3		0.70	2.05	ug/m3
67-63-0	Isopropyl Alcohol	8.50	20.9		0.57	1.23	ug/m3
75-35-4	1,1-Dichloroethene	9.40	37.3		0.59	1.98	ug/m3
67-64-1	Acetone	7.40	17.6		0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	9.10	28.3		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	9.60	34.6		0.83	1.80	ug/m3
75-09-2	Methylene Chloride	7.40	25.7		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.10	36.1		0.48	1.98	ug/m3
108-05-4	Vinyl Acetate	9.70	34.9		0.94	1.80	ug/m3
75-34-3	1,1-Dichloroethane	9.00	36.4		0.53	2.02	ug/m3
110-82-7	Cyclohexane	9.30	32.0		0.76	1.72	ug/m3
78-93-3	2-Butanone	9.00	26.5		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	9.30	58.5		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.20	36.5		0.40	1.98	ug/m3
67-66-3	Chloroform	9.50	46.4		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.40	51.3		0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.00	42.0		0.65	2.34	ug/m3
71-43-2	Benzene	9.40	30.0		0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	9.90	40.1		0.36	2.02	ug/m3
79-01-6	Trichloroethene	8.90	47.8		0.11	0.16	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0813ABS01	SDG No.:	Q2727
Lab Sample ID:	VL0813ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042851.D	1		08/13/25 14:32	VL081325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
78-87-5	1,2-Dichloropropane	9.30	43.0		0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	9.50	63.6		0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.30	38.1		0.41	2.05	ug/m3
108-88-3	Toluene	9.20	34.7		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	9.30	42.2		0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	9.30	42.2		0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	9.40	51.3		0.44	2.73	ug/m3
591-78-6	2-Hexanone	9.40	38.5		0.45	2.04	ug/m3
124-48-1	Dibromochloromethane	9.40	80.1		0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	9.30	71.5		0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	8.40	57.0		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	9.30	42.8		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	9.40	40.8		0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	18.8	81.7		1.78	4.34	ug/m3
1330-20-7	Total Xylenes	28.1	122		2.69	6.52	ug/m3
95-47-6	o-Xylene	9.30	40.4		0.91	2.17	ug/m3
100-42-5	Styrene	9.40	40.0		0.68	2.13	ug/m3
75-25-2	Bromoform	9.20	95.1		0.52	5.17	ug/m3
98-82-8	Isopropylbenzene	9.30	45.7		0.79	2.46	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	9.00	61.8		0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	9.20	47.6		0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	9.20	45.2		0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.00	44.3		0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	9.00	54.1		0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	9.00	54.1		0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	8.90	53.5		0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	8.80	65.3		1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	7.50	80.0		1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	8.40	18.6		0.11	1.11	ug/m3
91-20-3	Naphthalene	8.90	46.6		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	9.30	45.7		1.03	2.46	ug/m3
110-54-3	Hexane	9.20	32.4		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	8.90	27.9		0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	8.80	31.7		0.79	1.80	ug/m3
100-44-7	Benzyl Chloride	8.50	44.0		0.47	2.59	ug/m3
80-62-6	Methyl Methacrylate	9.00	36.9		0.57	2.05	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0813ABS01	SDG No.:	Q2727
Lab Sample ID:	VL0813ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042851.D	1		08/13/25 14:32	VL081325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	117000		2.793			
540-36-3	1,4-Difluorobenzene	368000		3.968			
3114-55-4	Chlorobenzene-d5	322000		8.895			

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\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

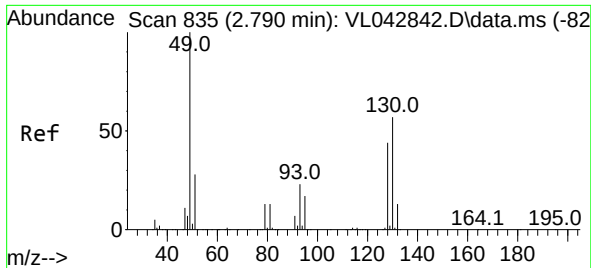
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

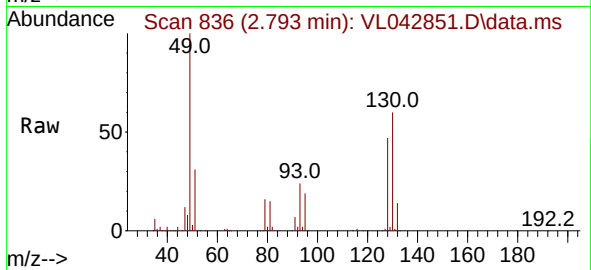
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	189646	9.285	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	127667	9.357	ppbv	97
48) Dibromochloromethane	7.402	129	207804	9.412	ppbv	100
49) Bromoform	9.493	173	168015	9.228	ppbv	100
50) 4-Methyl-2-Pentanone	5.768	43	312046	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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

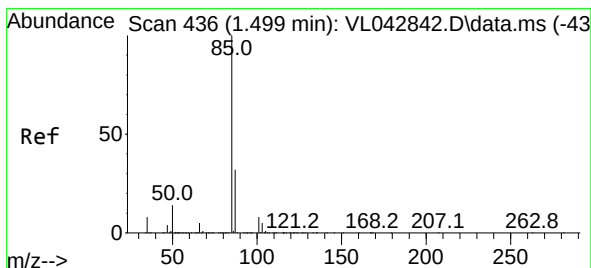
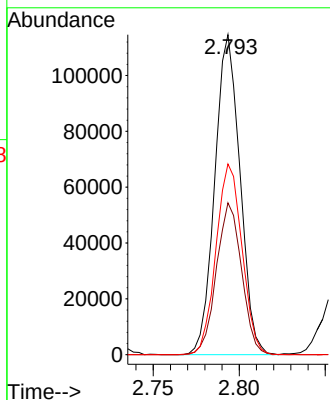
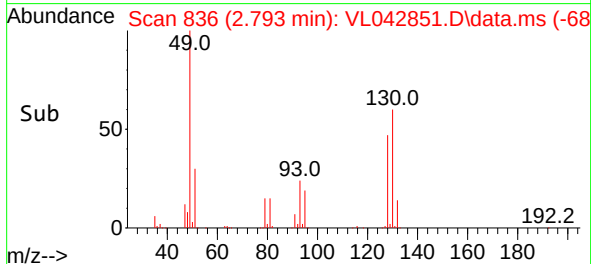
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



Tgt Ion: 49 Resp: 11688
Ion Ratio Lower Upper
49 100
128 47.4 23.7 71.1
130 61.4 30.6 91.6

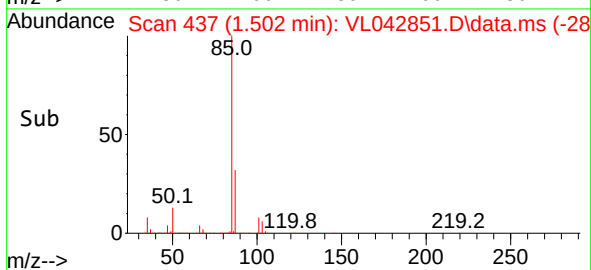
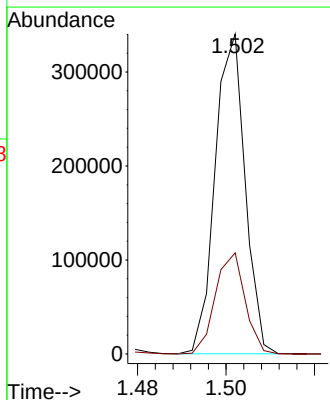
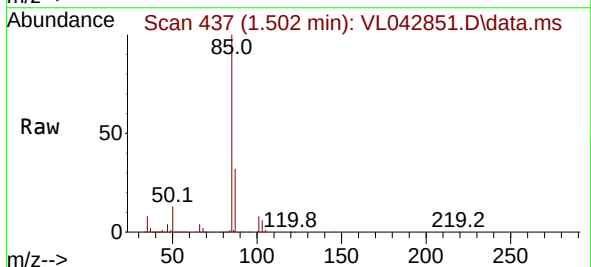
Manual Integrations
APPROVED

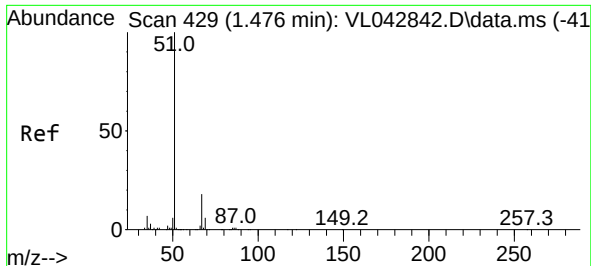
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#2
Dichlorodifluoromethane
Concen: 9.338 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion: 85 Resp: 159958
Ion Ratio Lower Upper
85 100
87 31.6 25.3 37.9





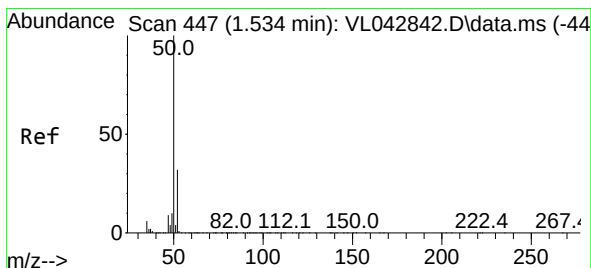
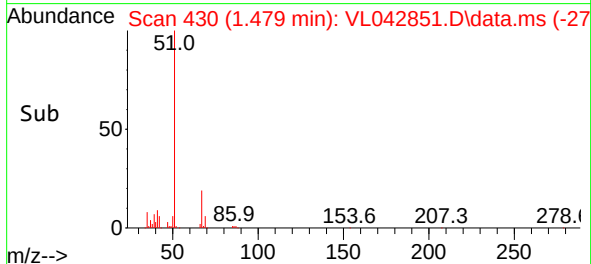
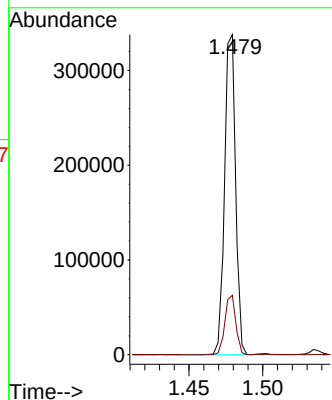
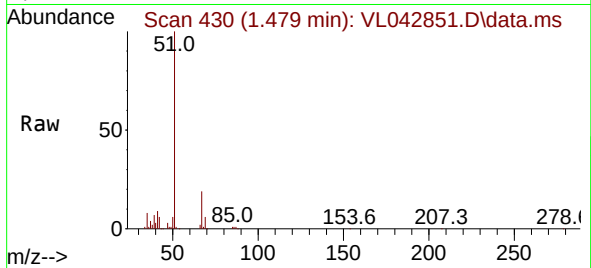
#3
Chlorodifluoromethane
Concen: 9.360 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

Tgt Ion: 51 Resp: 177225
Ion Ratio Lower Upper
51 100
67 18.5 14.9 22.3

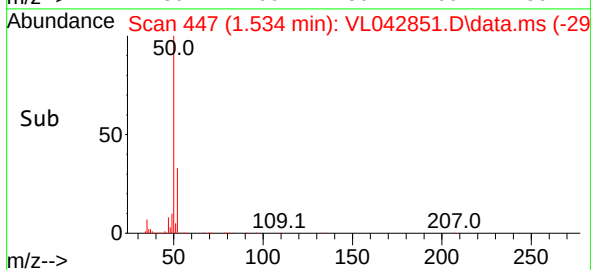
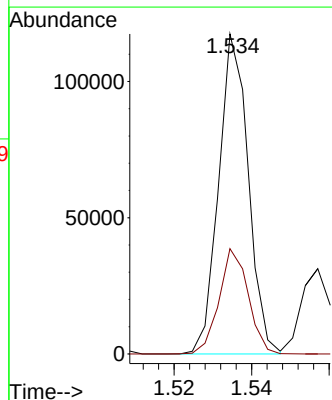
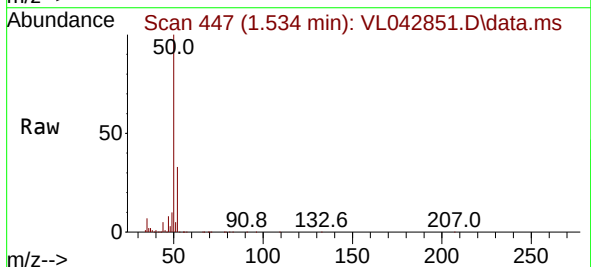
Manual Integrations
APPROVED

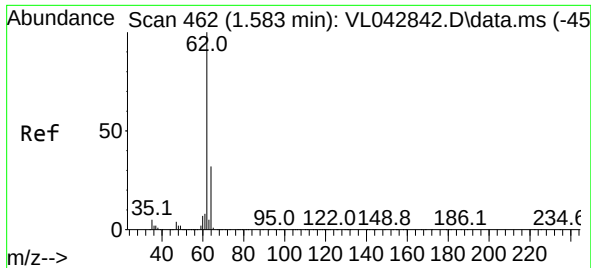
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#4
Chloromethane
Concen: 9.004 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

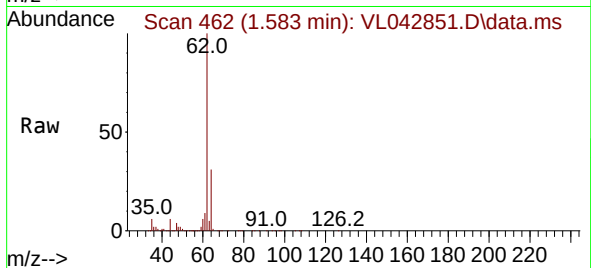
Tgt Ion: 50 Resp: 62240
Ion Ratio Lower Upper
50 100
52 32.8 25.9 38.9





#5
 Vinyl Chloride
 Concen: 8.716 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

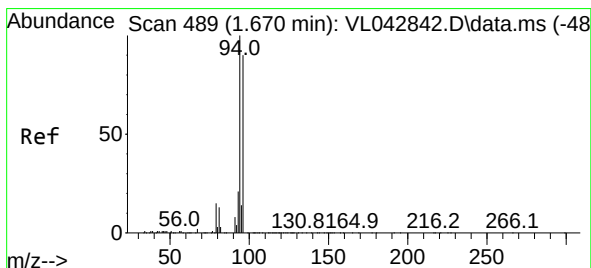
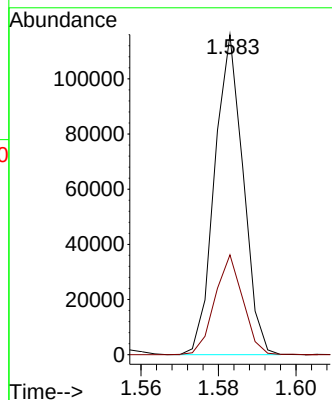
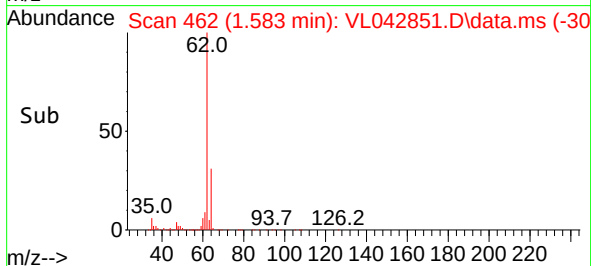
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABS01



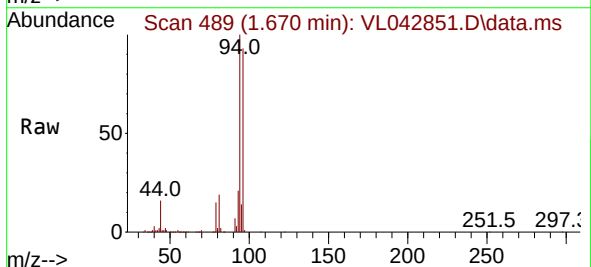
Tgt Ion: 62 Resp: 59338
 Ion Ratio Lower Upper
 62 100
 64 31.1 25.4 38.2

Manual Integrations
 APPROVED

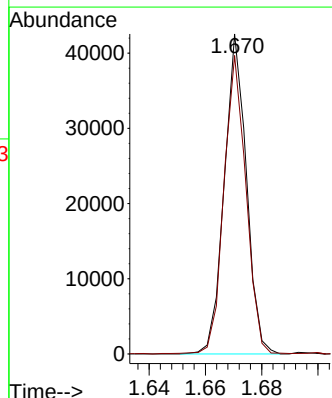
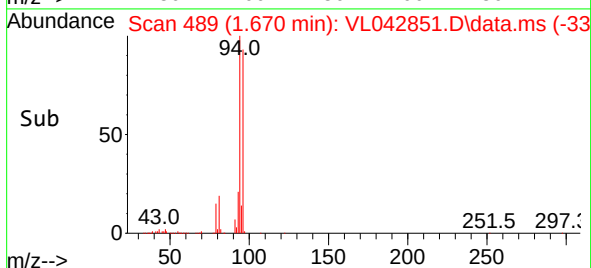
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

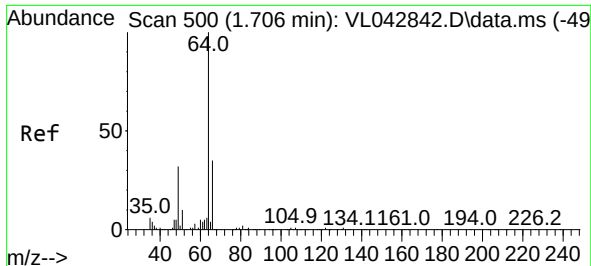


#6
 Bromomethane
 Concen: 8.505 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32



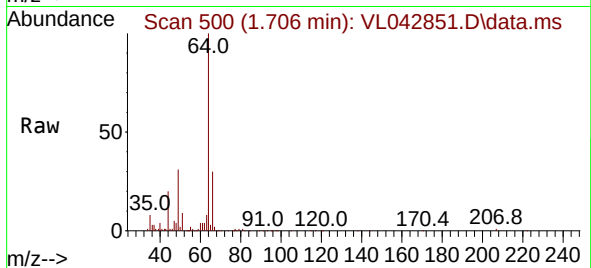
Tgt Ion: 94 Resp: 23152
 Ion Ratio Lower Upper
 94 100
 96 93.1 72.1 108.1





#7
Chloroethane
Concen: 8.898 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

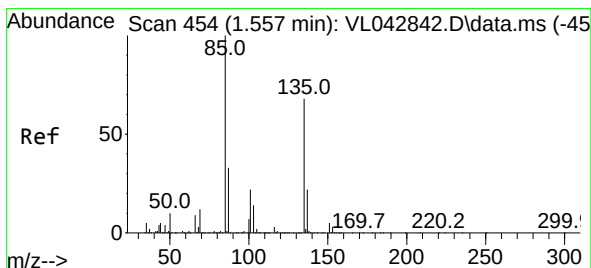
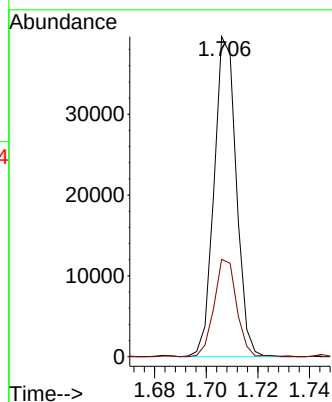
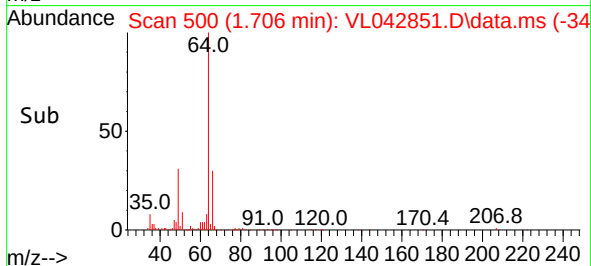
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



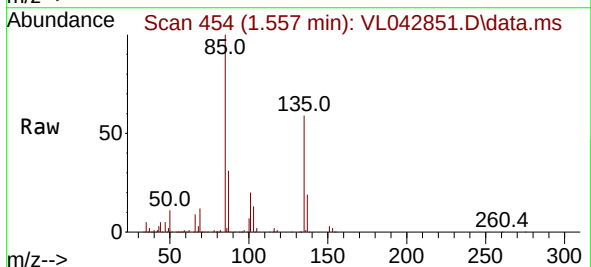
Tgt Ion: 64 Resp: 2365
Ion Ratio Lower Upper
64 100
66 30.4 28.6 42.8

Manual Integrations
APPROVED

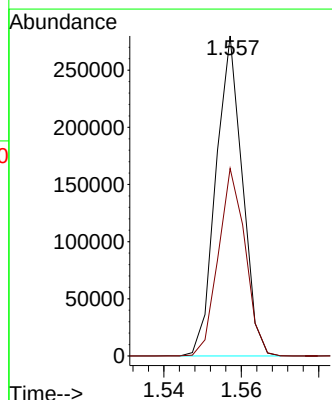
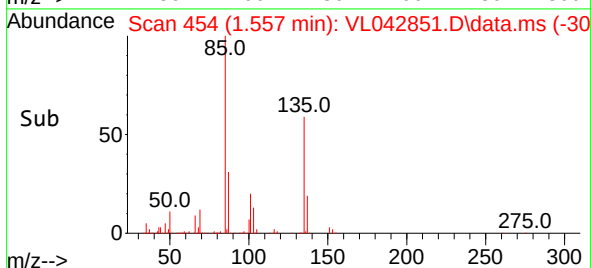
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

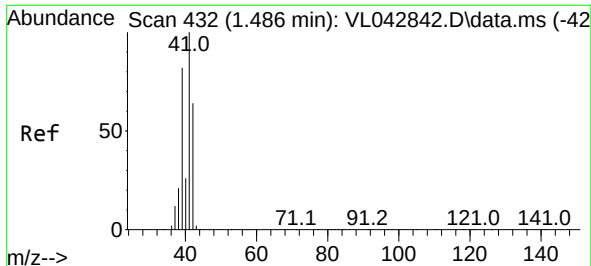


#8
Dichlorotetrafluoroethane
Concen: 9.471 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32



Tgt Ion: 85 Resp: 132763
Ion Ratio Lower Upper
85 100
135 59.9 51.2 76.8





#9

Propene

Concen: 8.686 ppbv

RT: 1.486 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042851.D

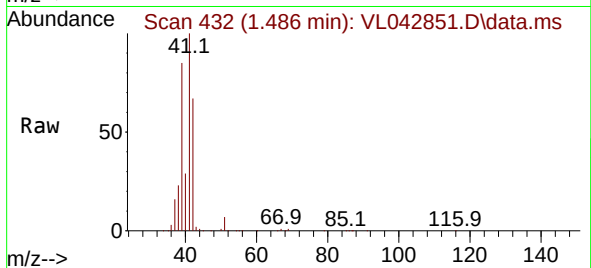
Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABS01

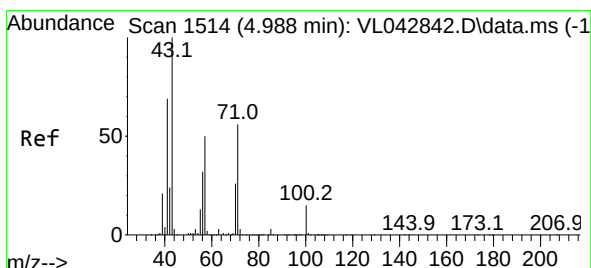
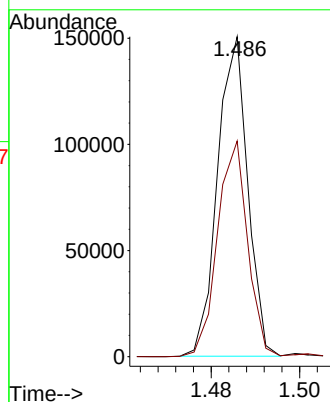
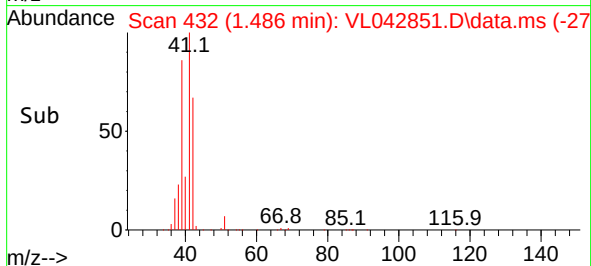


Tgt Ion:	41	Resp:	71030
Ion Ratio	Lower	Upper	
41	100		
42	68.8	53.0	79.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#10

Heptane

Concen: 9.118 ppbv

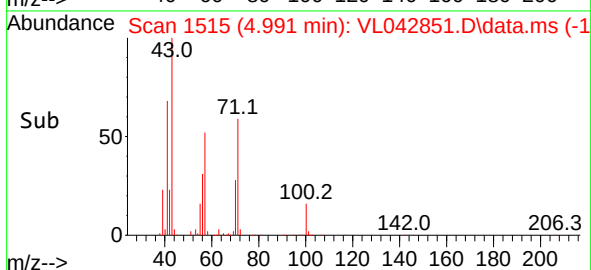
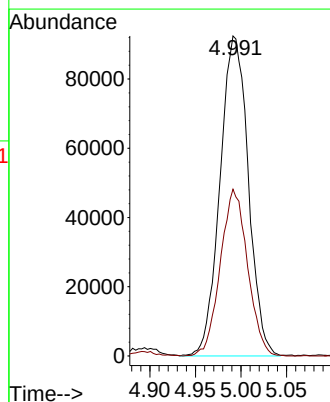
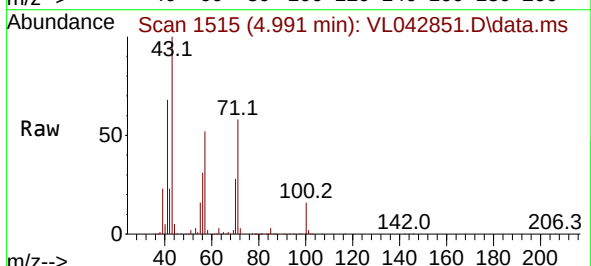
RT: 4.991 min Scan# 1515

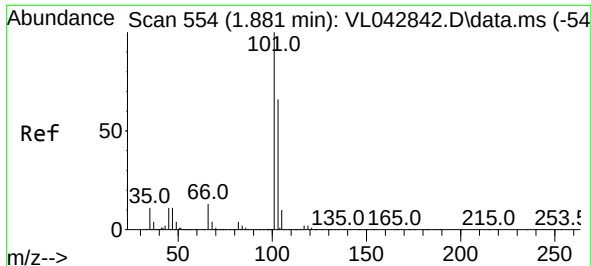
Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

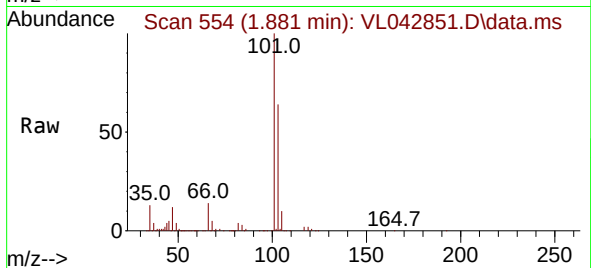
Tgt Ion:	43	Resp:	199706
Ion Ratio	Lower	Upper	
43	100		
57	50.2	41.4	62.0





#11
Trichlorofluoromethane
Concen: 9.084 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

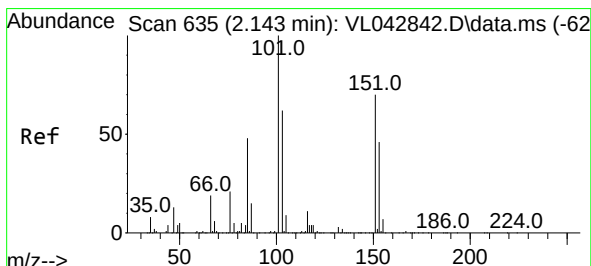
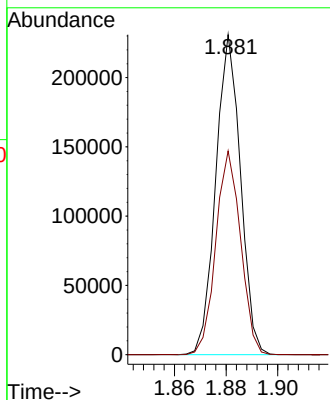
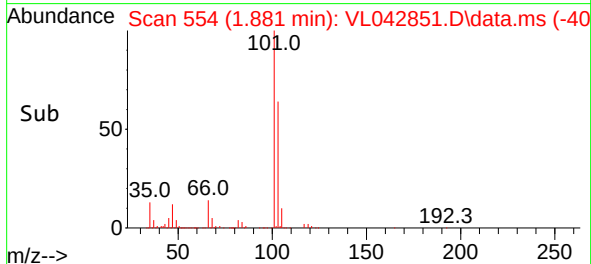
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



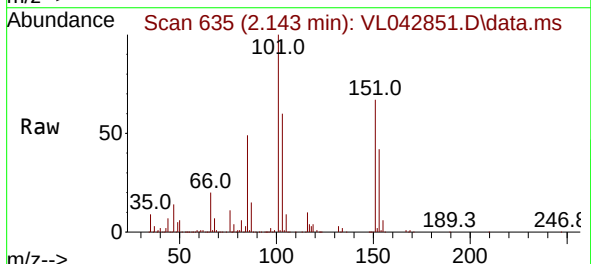
Tgt Ion:101 Resp: 153519
Ion Ratio Lower Upper
101 100
103 63.6 52.5 78.7

Manual Integrations
APPROVED

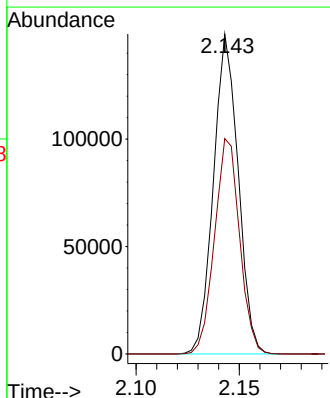
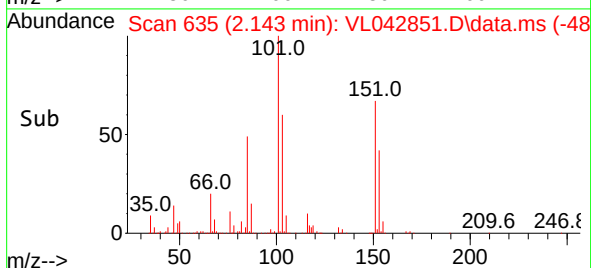
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

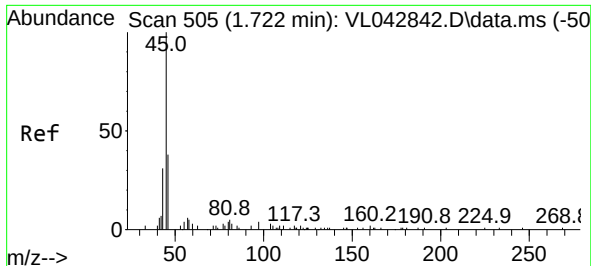


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.198 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32



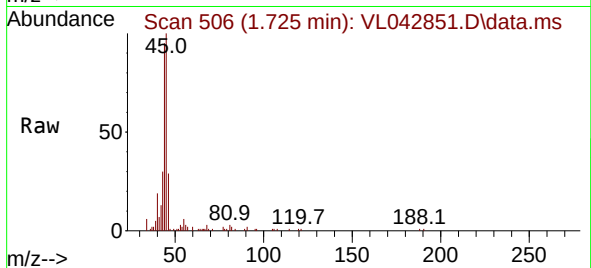
Tgt Ion:101 Resp: 123905
Ion Ratio Lower Upper
101 100
151 68.3 56.4 84.6





#13
Ethanol
Concen: 7.501 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

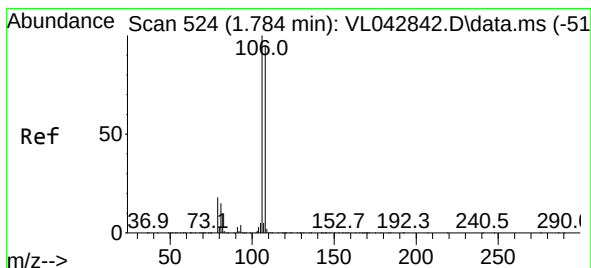
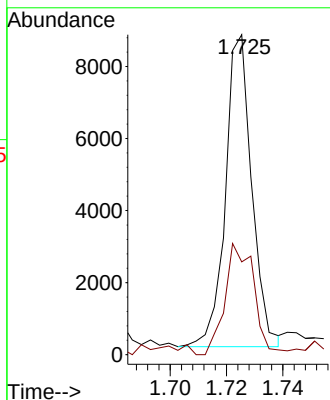
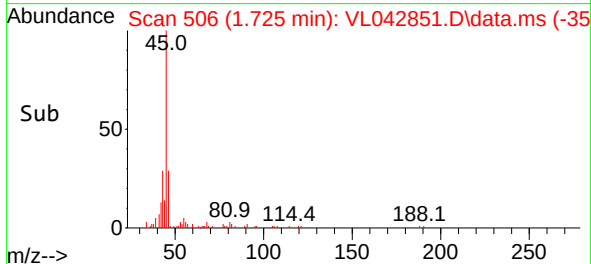
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



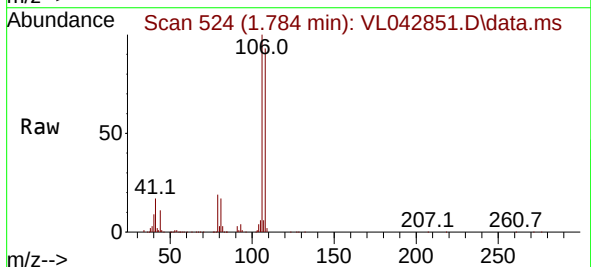
Tgt Ion: 45 Resp: 5608
Ion Ratio Lower Upper
45 100
46 43.8 17.5 69.9

Manual Integrations
APPROVED

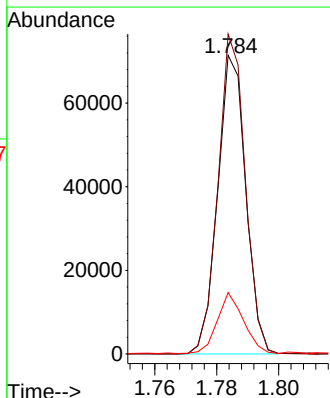
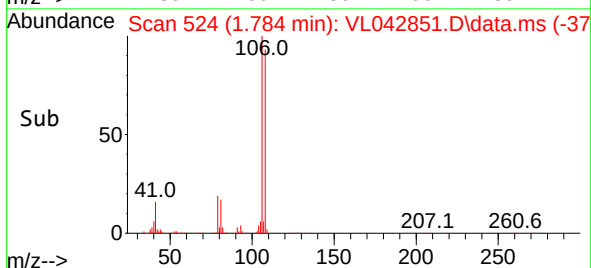
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

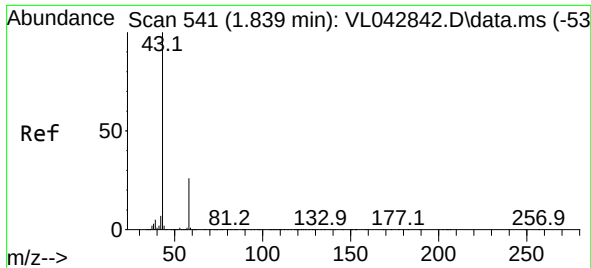


#14
Bromoethene
Concen: 9.244 ppbv
RT: 1.784 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32



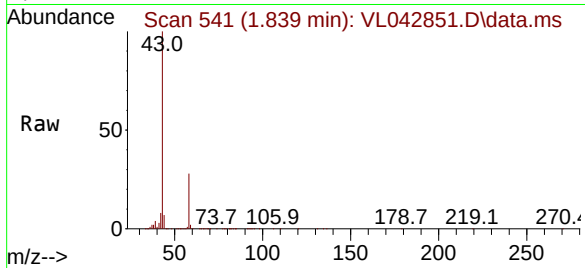
Tgt Ion:108 Resp: 45076
Ion Ratio Lower Upper
108 100
106 104.0 85.1 127.7
79 19.6 16.3 24.5





#15
Acetone
Concen: 7.448 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

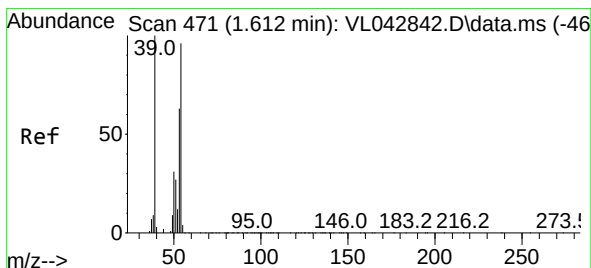
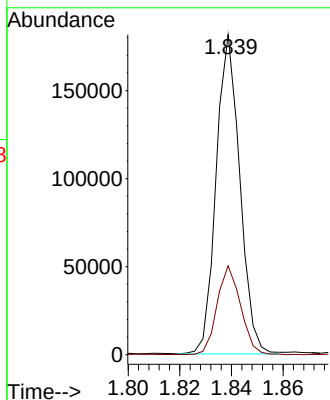
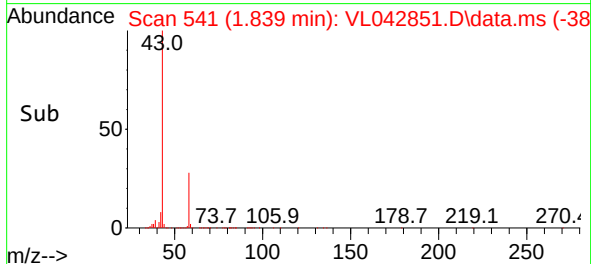
Instrument : MSVOA_L
ClientSampleId : VL0813ABS01



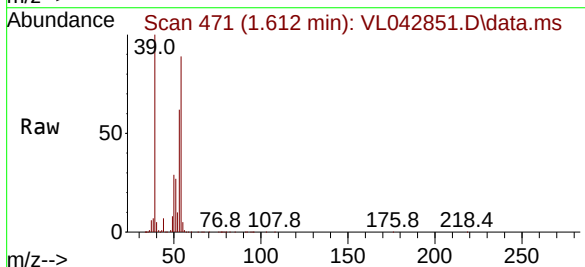
Tgt Ion: 43 Resp: 115158
Ion Ratio Lower Upper
43 100
58 28.1 22.4 33.6

Manual Integrations
APPROVED

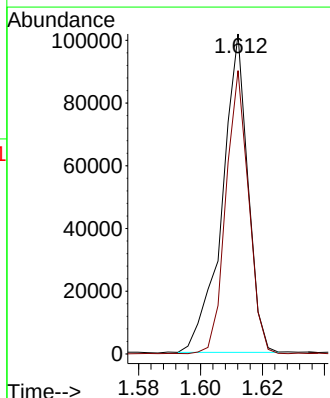
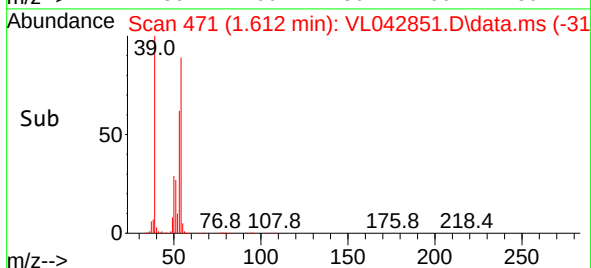
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

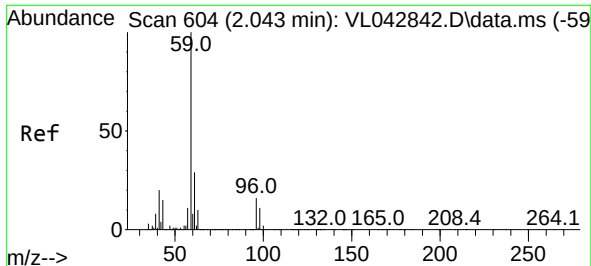


#16
1,3-Butadiene
Concen: 8.412 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32



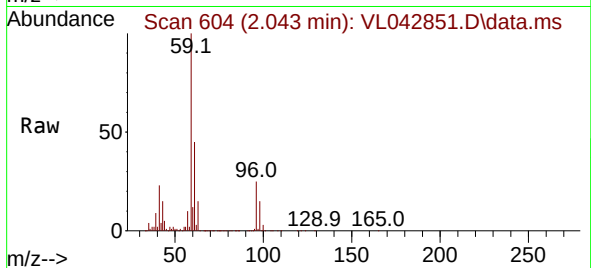
Tgt Ion: 39 Resp: 58958
Ion Ratio Lower Upper
39 100
54 79.0 63.6 95.4





#17
 tert-Butyl alcohol
 Concen: 8.668 ppbv
 RT: 2.043 min Scan# 604
 Delta R.T. -0.000 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

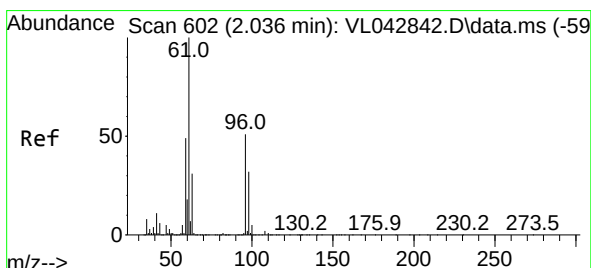
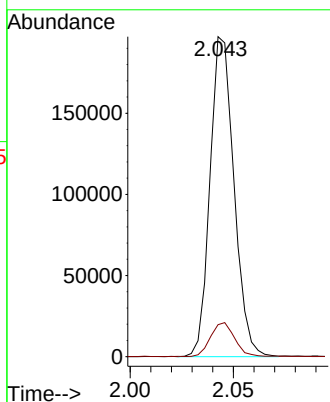
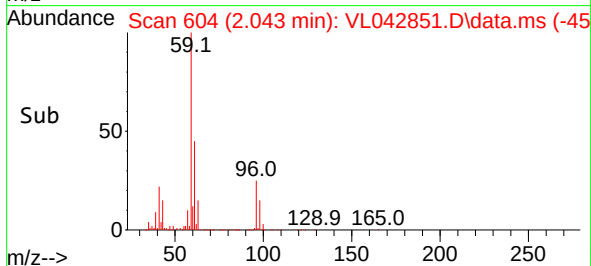
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABS01



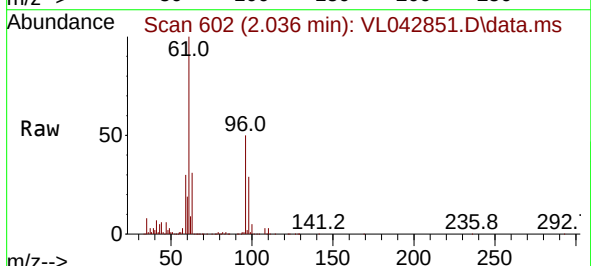
Tgt Ion: 59 Resp: 158939
 Ion Ratio Lower Upper
 59 100
 57 10.9 9.0 13.4

Manual Integrations
 APPROVED

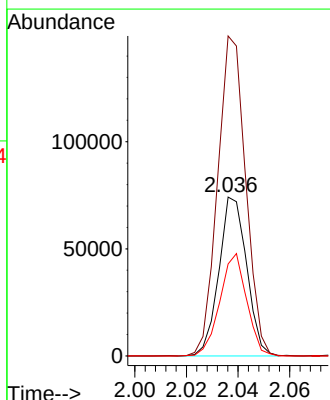
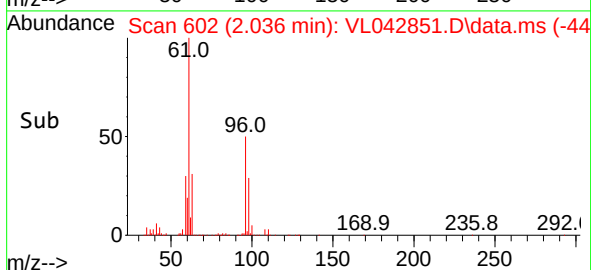
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

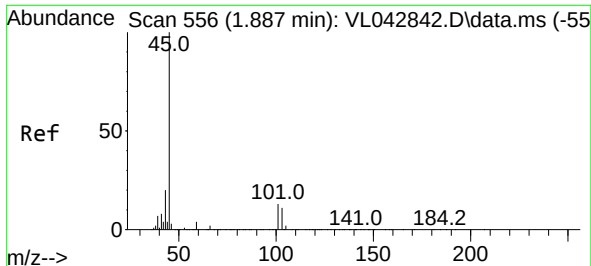


#18
 1,1-Dichloroethene
 Concen: 9.371 ppbv
 RT: 2.036 min Scan# 602
 Delta R.T. -0.000 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32



Tgt Ion: 96 Resp: 55494
 Ion Ratio Lower Upper
 96 100
 61 201.4 158.2 237.4
 98 58.0 50.6 76.0





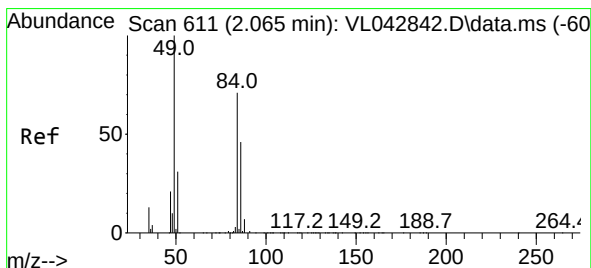
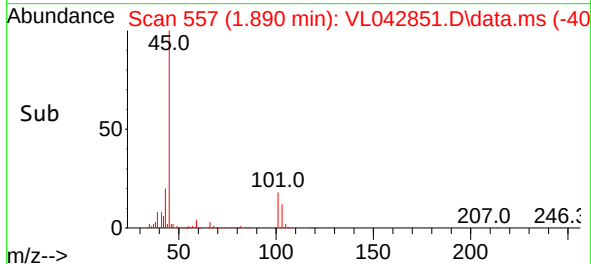
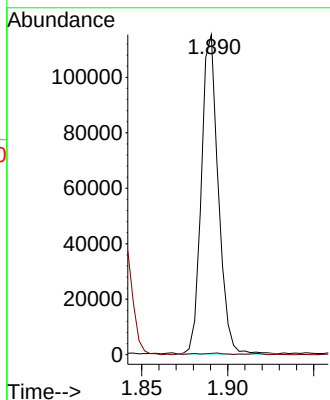
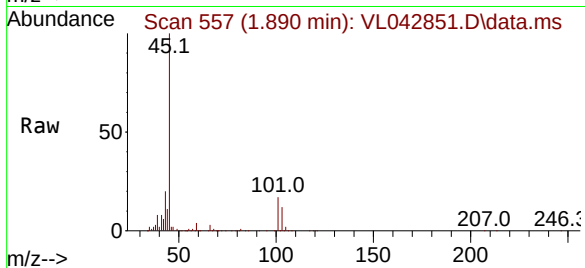
#19
Isopropyl Alcohol
Concen: 8.540 ppbv
RT: 1.890 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

Tgt Ion: 45 Resp: 78860
Ion Ratio Lower Upper
45 100
58 41.0 32.7 49.1

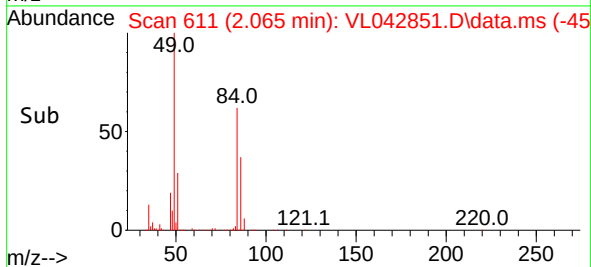
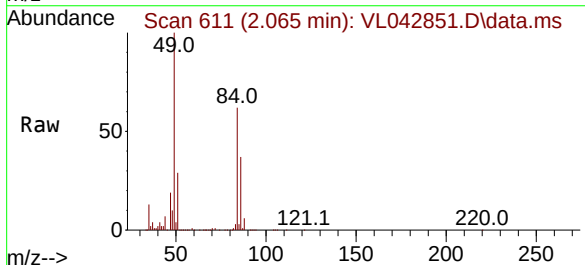
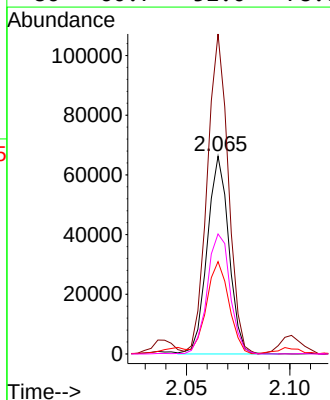
Manual Integrations
APPROVED

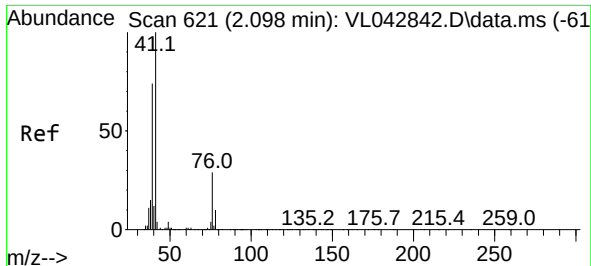
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#20
Methylene Chloride
Concen: 7.439 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

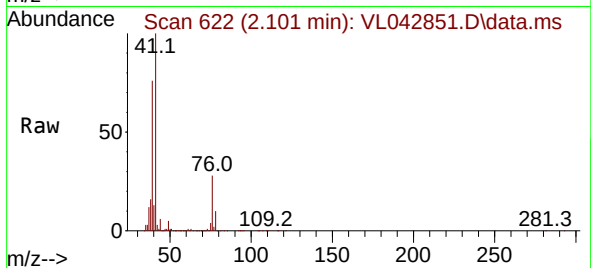
Tgt Ion: 84 Resp: 48184
Ion Ratio Lower Upper
84 100
49 159.6 112.3 168.5
51 45.1 36.0 54.0
86 60.7 52.0 78.0





#21
 Allyl Chloride
 Concen: 8.854 ppbv
 RT: 2.101 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

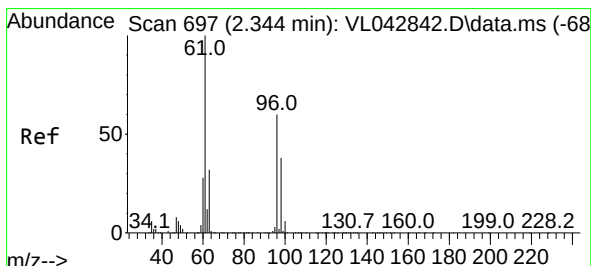
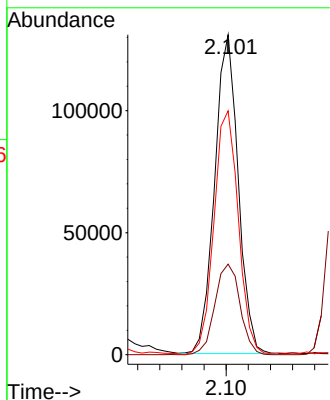
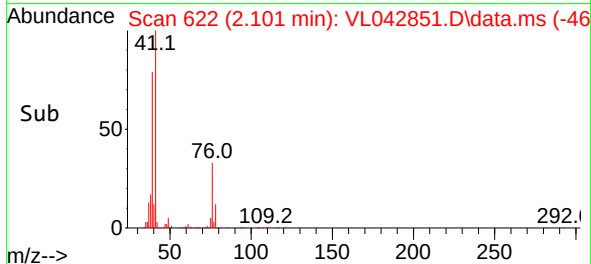
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABS01



Tgt Ion: 41 Resp: 96710
 Ion Ratio Lower Upper
 41 100
 76 30.3 23.9 35.9
 39 78.0 57.8 86.6

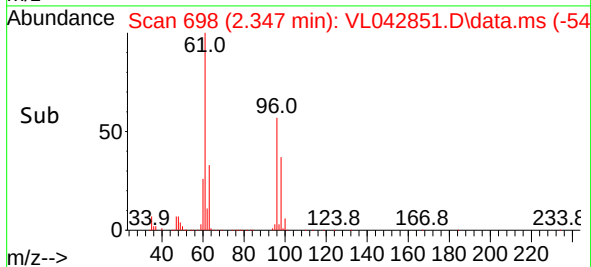
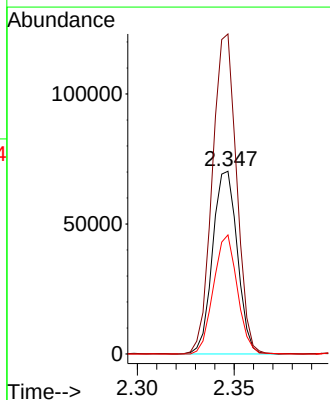
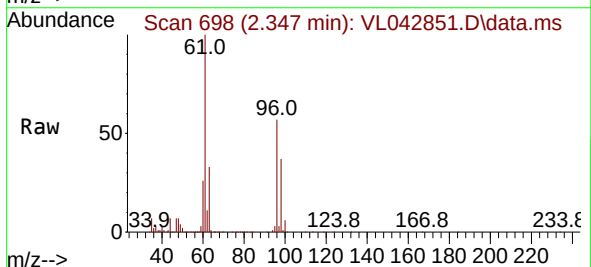
Manual Integrations
 APPROVED

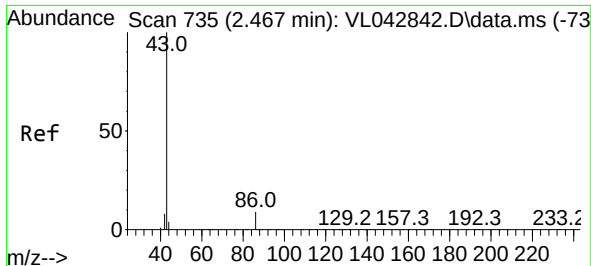
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.117 ppbv
 RT: 2.347 min Scan# 698
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

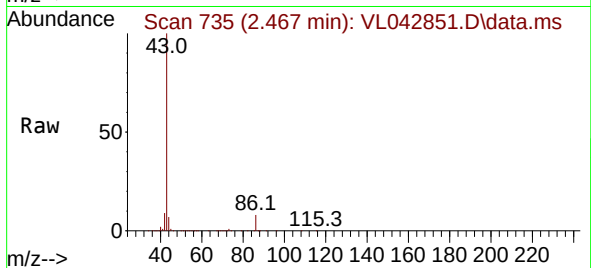
Tgt Ion: 96 Resp: 62464
 Ion Ratio Lower Upper
 96 100
 61 175.1 132.6 199.0
 98 65.1 50.0 75.0





#23
 Vinyl Acetate
 Concen: 9.728 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. -0.000 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

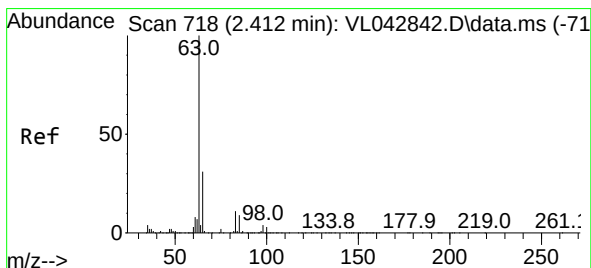
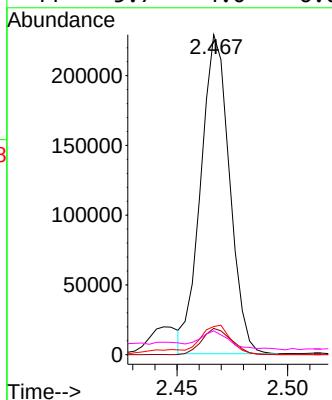
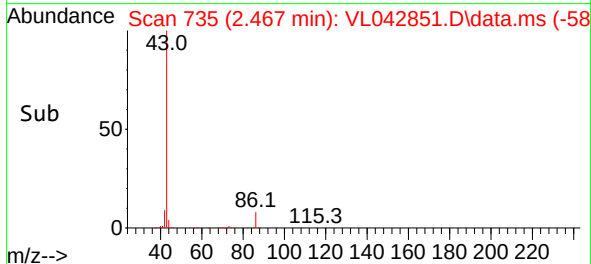
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABS01



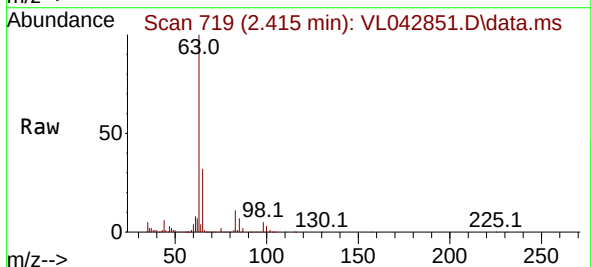
Tgt Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8
42	8.7	7.0	10.6
44	5.7	4.0	6.0

Manual Integrations
 APPROVED

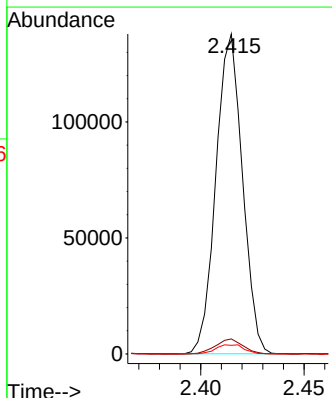
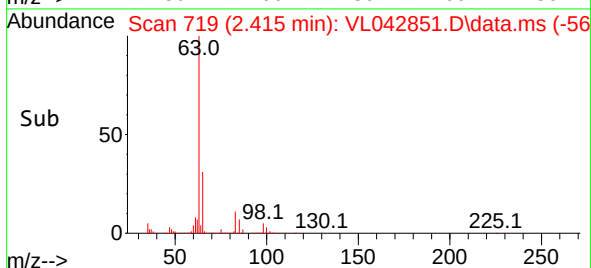
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

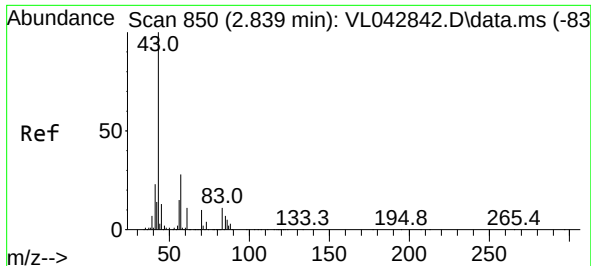


#24
 1,1-Dichloroethane
 Concen: 8.993 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32



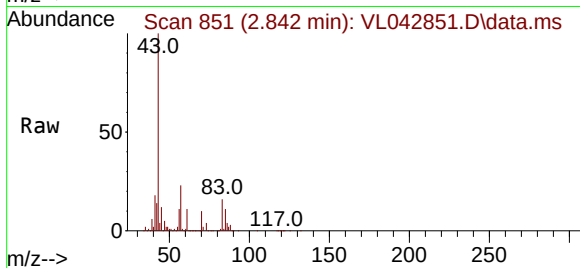
Tgt Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.1	6.5
100	2.7	1.7	5.1





#25
Ethyl Acetate
Concen: 9.200 ppbv
RT: 2.842 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

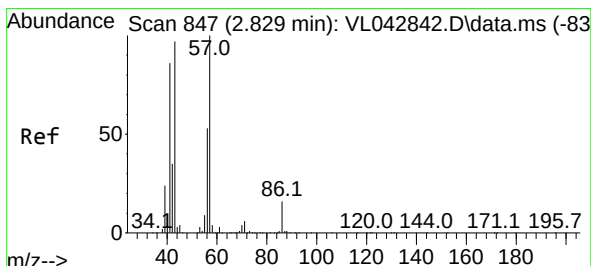
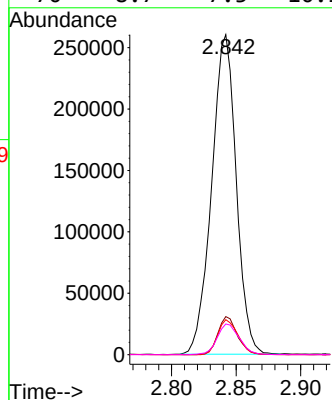
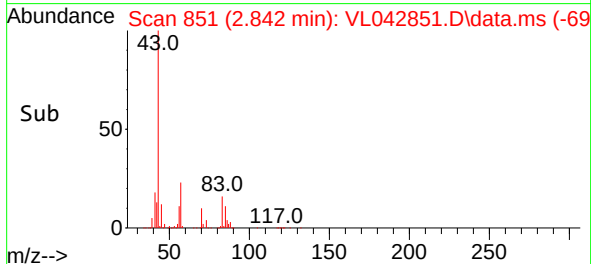
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



Tgt Ion: 43 Resp: 34428
Ion Ratio Lower Upper
43 100
45 9.7 8.1 12.1
61 9.1 7.4 11.2
70 8.7 7.3 10.9

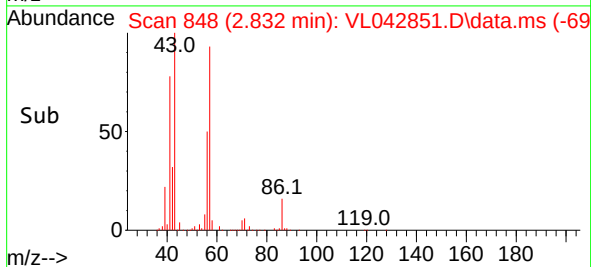
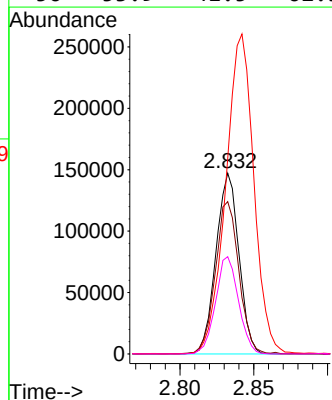
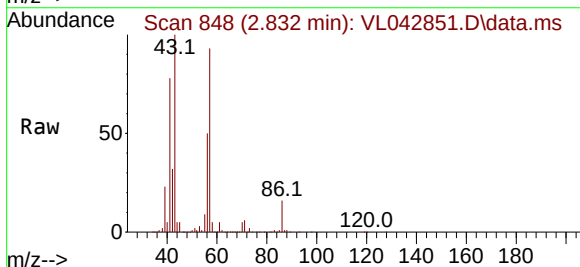
Manual Integrations
APPROVED

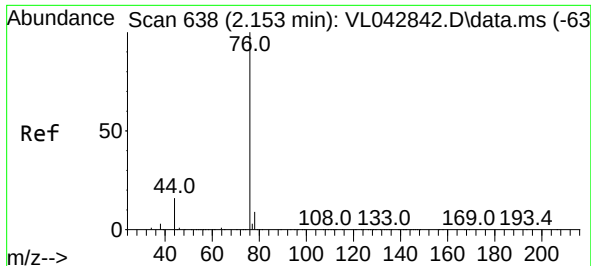
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#26
Hexane
Concen: 9.206 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

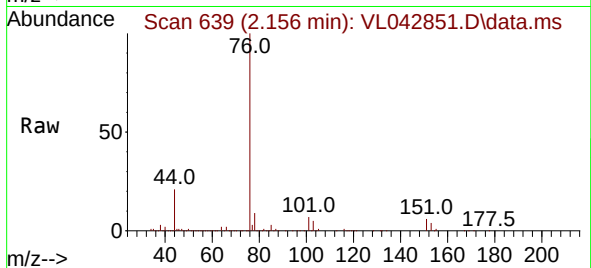
Tgt Ion: 57 Resp: 159005
Ion Ratio Lower Upper
57 100
41 87.1 68.6 103.0
43 217.5 168.5 252.7
56 53.9 41.5 62.3





#27
Carbon Disulfide
Concen: 9.126 ppbv
RT: 2.156 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

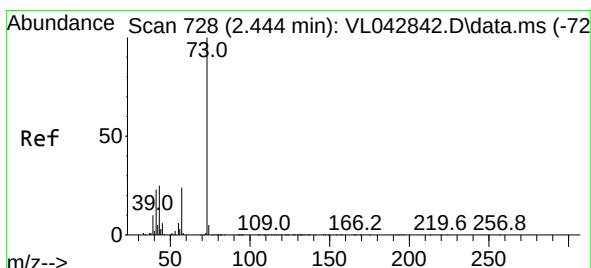
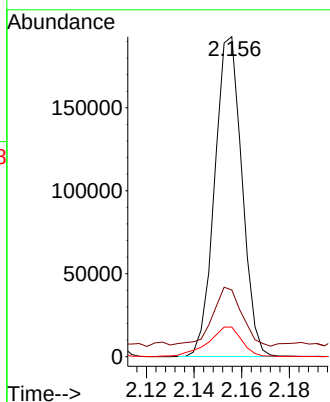
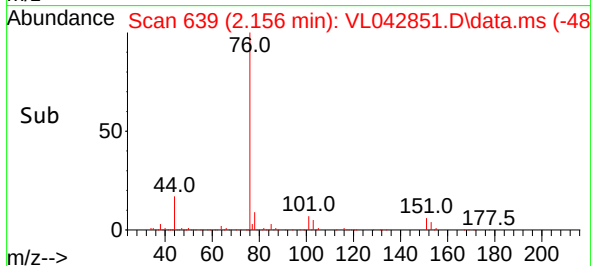
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



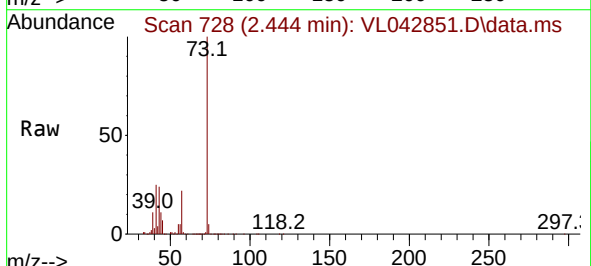
Tgt Ion: 76 Resp: 15340
Ion Ratio Lower Upper
76 100
44 26.3 15.9 23.9
78 11.6 9.5 14.3

Manual Integrations
APPROVED

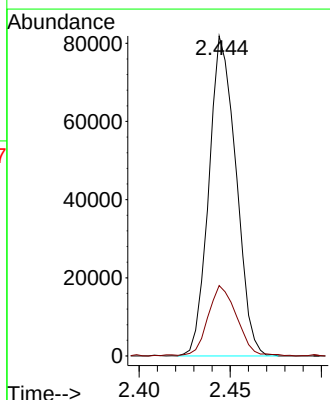
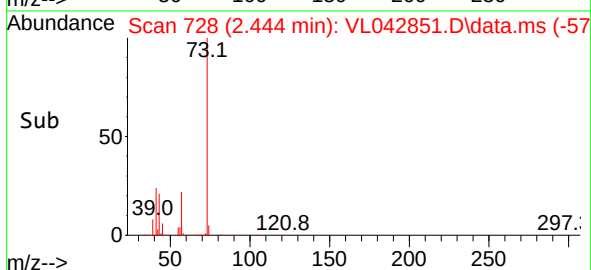
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

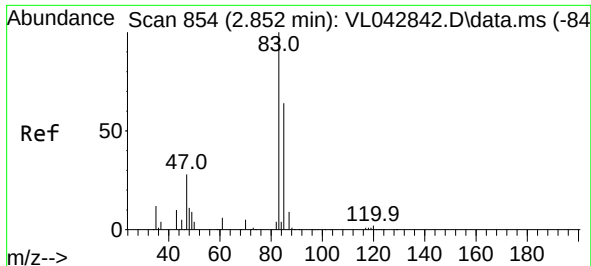


#28
Methyl tert-Butyl Ether
Concen: 9.630 ppbv
RT: 2.444 min Scan# 728
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32



Tgt Ion: 73 Resp: 84816
Ion Ratio Lower Upper
73 100
57 23.2 21.6 32.4





#29

Chloroform

Concen: 9.492 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABS01

Tgt Ion: 83 Resp: 23406

Ion Ratio Lower Upper

83 100

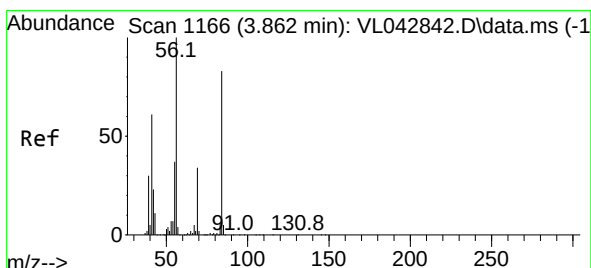
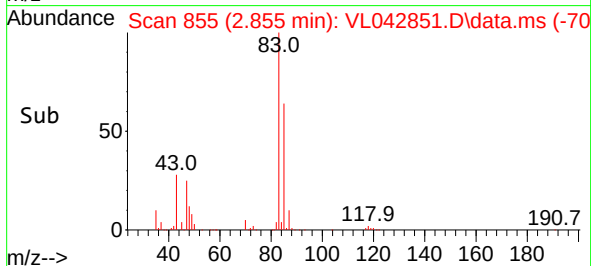
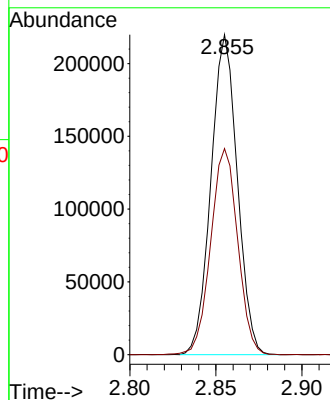
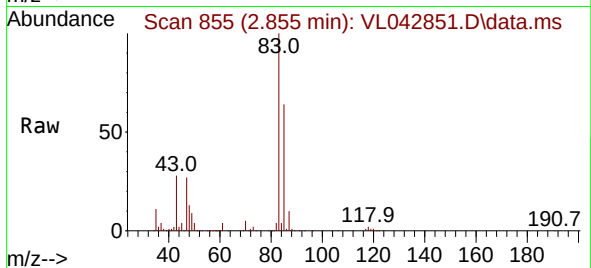
85 64.4 51.1 76.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#30

Cyclohexane

Concen: 9.270 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

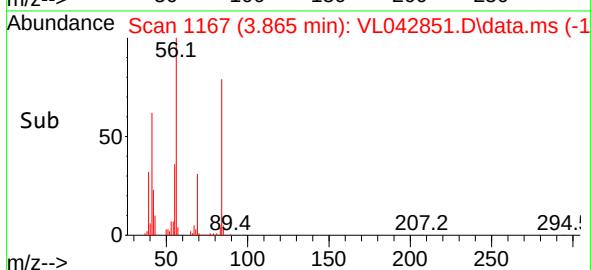
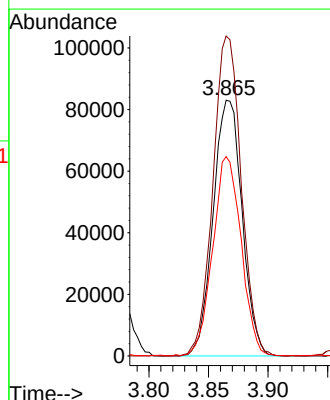
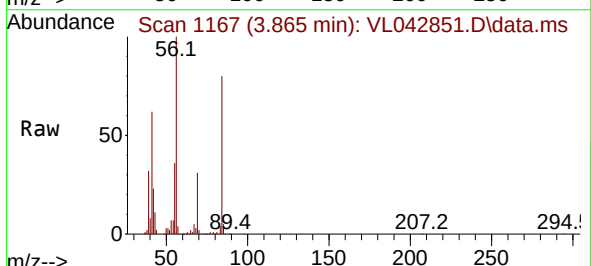
Tgt Ion: 84 Resp: 140375

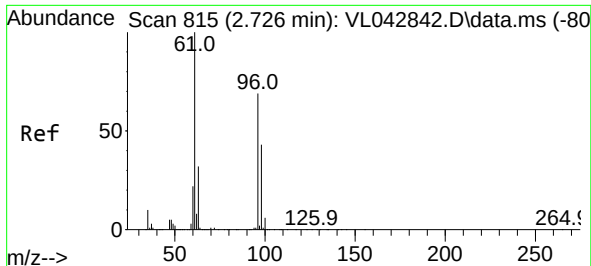
Ion Ratio Lower Upper

84 100

56 122.1 98.8 148.2

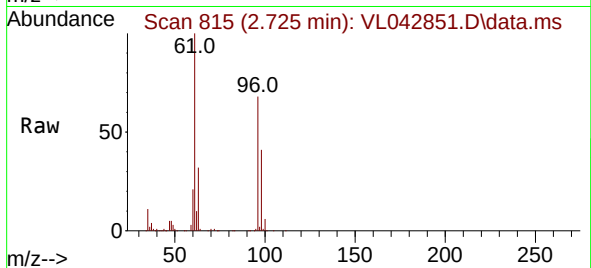
41 76.3 61.3 91.9





#31
 cis-1,2-Dichloroethene
 Concen: 9.199 ppbv
 RT: 2.725 min Scan# 815
 Delta R.T. -0.000 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

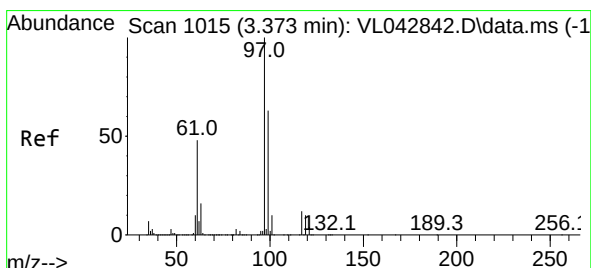
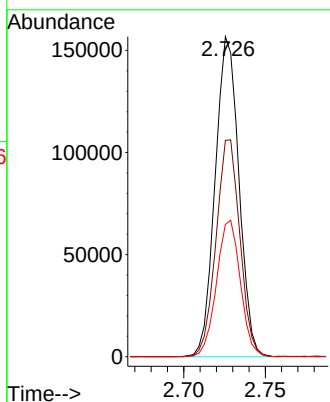
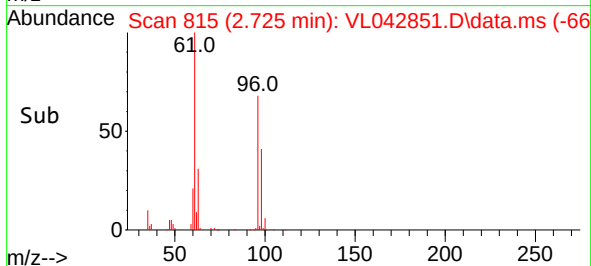
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABS01



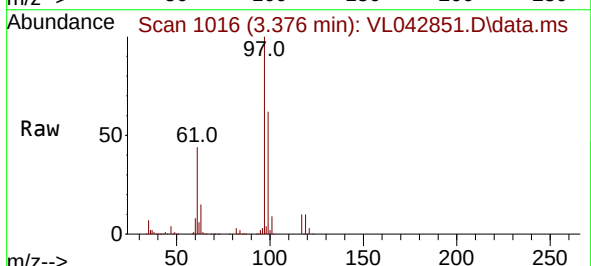
Tgt Ion: 61 Resp: 158712
 Ion Ratio Lower Upper
 61 100
 96 67.6 55.0 82.6
 98 41.3 34.3 51.5

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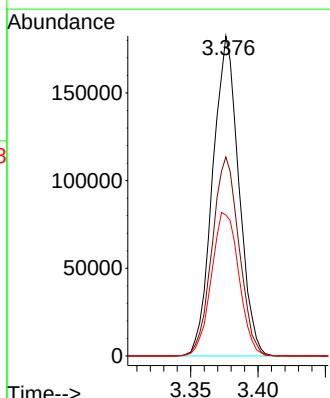
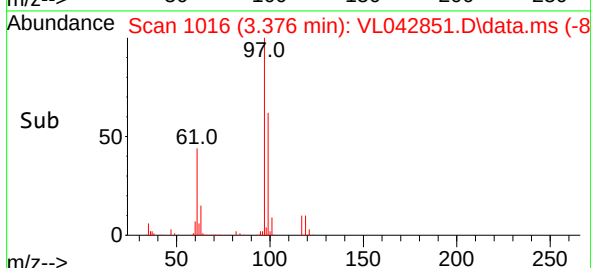
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

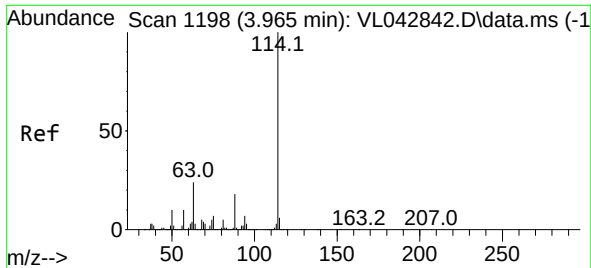


#32
 1,1,1-Trichloroethane
 Concen: 9.431 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32



Tgt Ion: 97 Resp: 245800
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.0 76.6
 61 47.4 38.0 57.0





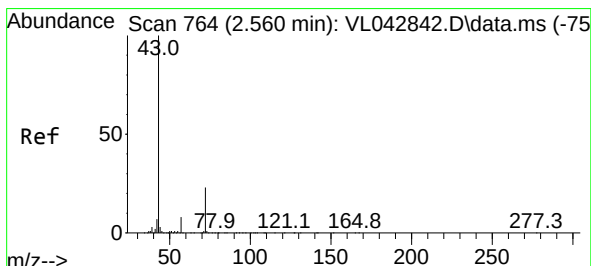
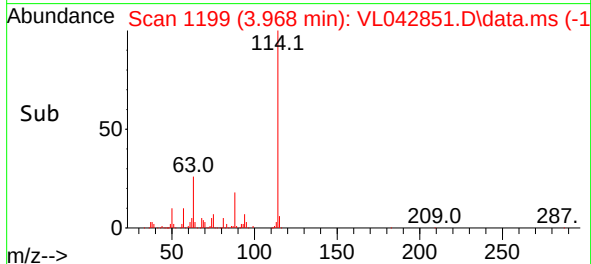
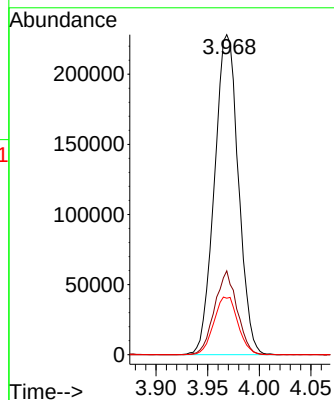
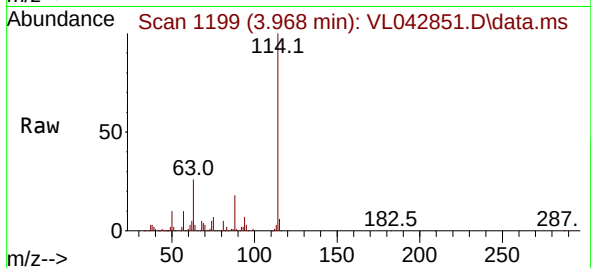
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

Tgt Ion:114 Resp: 368200
Ion Ratio Lower Upper
114 100
63 24.6 19.7 29.5
88 18.1 14.4 21.6

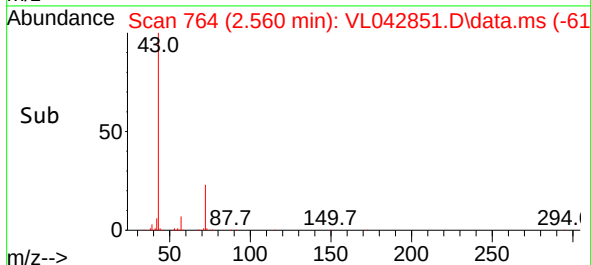
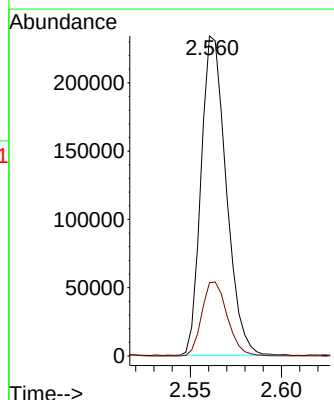
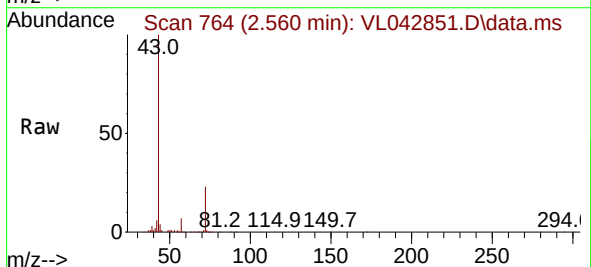
Manual Integrations
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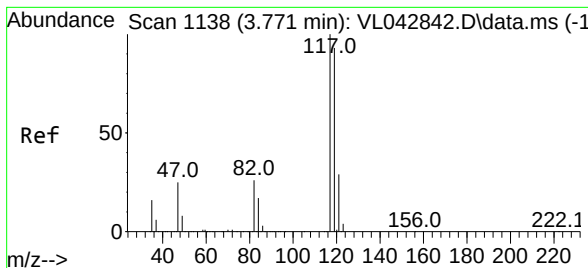
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#34
2-Butanone
Concen: 9.016 ppbv
RT: 2.560 min Scan# 764
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion: 43 Resp: 224149
Ion Ratio Lower Upper
43 100
72 23.5 18.6 28.0





#35

Carbon Tetrachloride

Concen: 9.281 ppbv

RT: 3.771 min Scan# 1138

Delta R.T. -0.000 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABS01

Tgt Ion:117 Resp: 235598

Ion Ratio Lower Upper

117 100

119 96.8 74.7 112.1

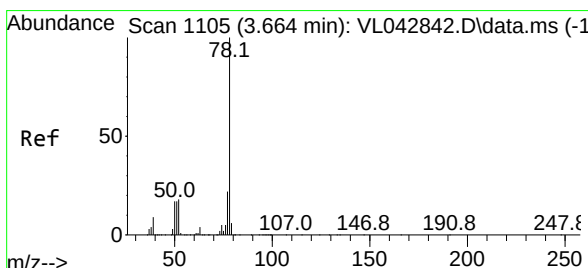
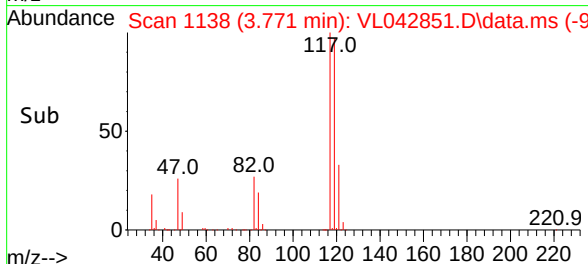
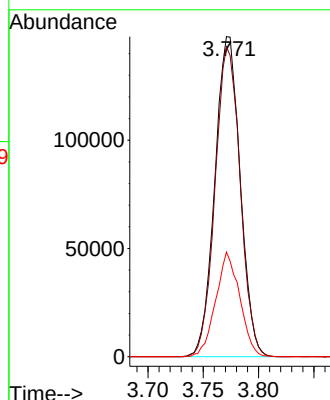
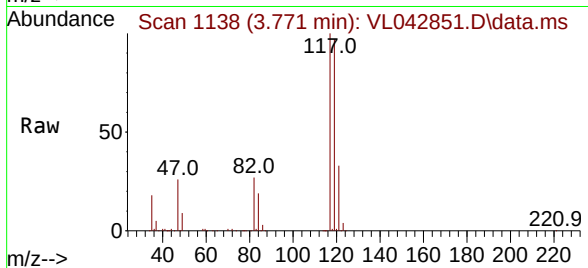
121 32.7 23.2 34.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#36

Benzene

Concen: 9.360 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. -0.000 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

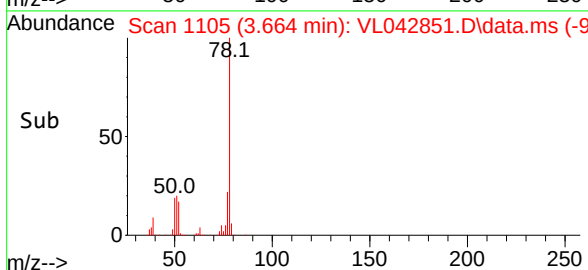
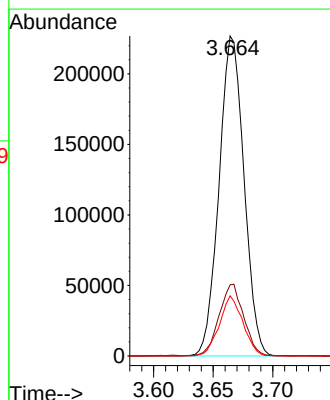
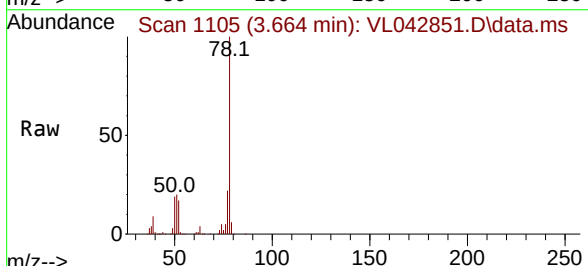
Tgt Ion: 78 Resp: 330026

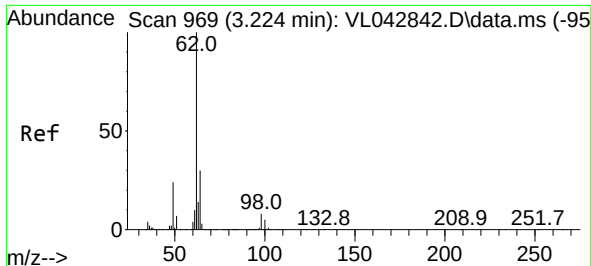
Ion Ratio Lower Upper

78 100

77 22.2 17.7 26.5

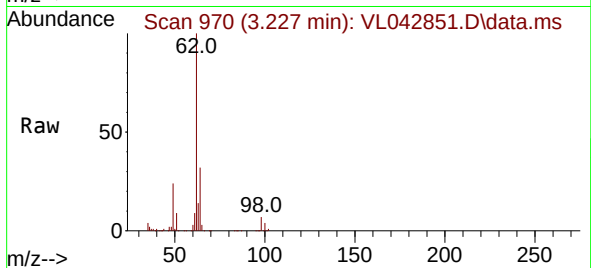
50 18.8 13.9 20.9





#37
1,2-Dichloroethane
Concen: 9.874 ppbv
RT: 3.227 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

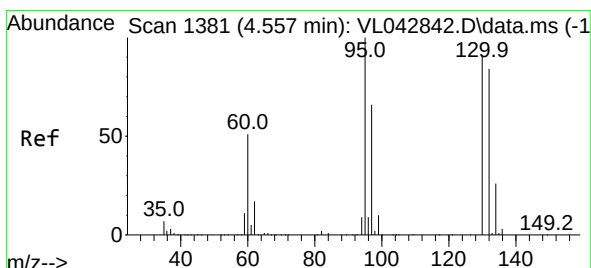
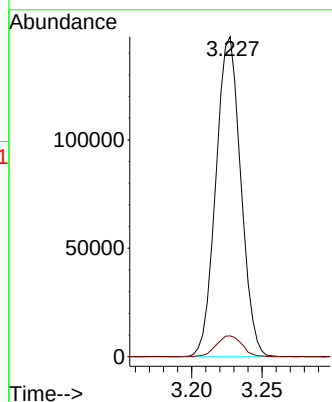
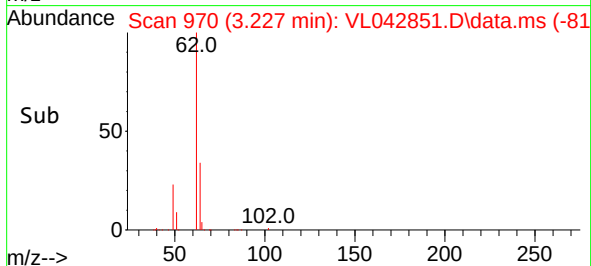
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



Tgt Ion: 62 Resp: 181878
Ion Ratio Lower Upper
62 100
98 6.7 5.9 8.9

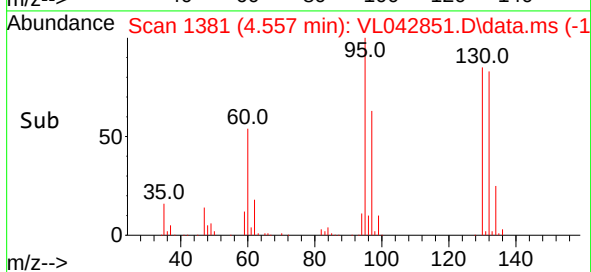
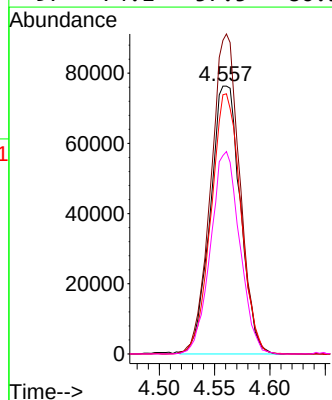
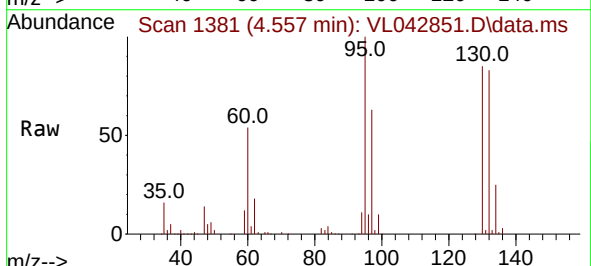
Manual Integrations
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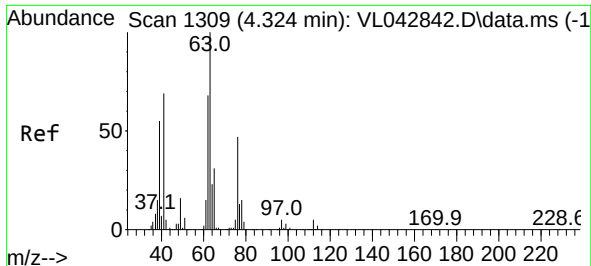
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#38
Trichloroethene
Concen: 8.944 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion:130 Resp: 144018
Ion Ratio Lower Upper
130 100
95 117.1 87.6 131.4
132 96.6 73.8 110.8
97 74.1 57.5 86.3





#39

1,2-Dichloropropane

Concen: 9.275 ppbv

RT: 4.324 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL042851.D

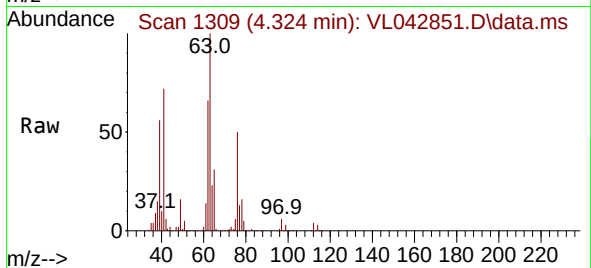
Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABS01

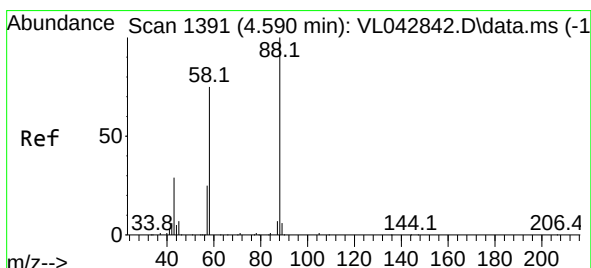
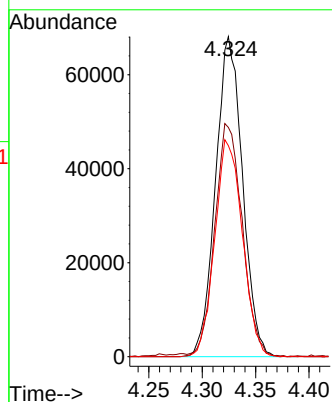
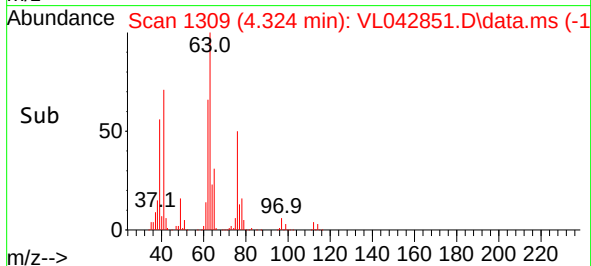


Tgt Ion:	63	Resp:	11944
Ion Ratio	100	Lower	Upper
63	100		
41	71.4	55.0	82.4
62	66.0	54.4	81.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#40

1,4-Dioxane

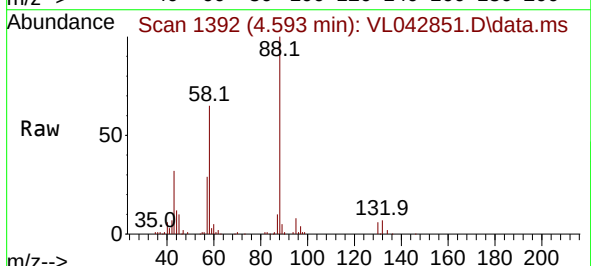
Concen: 8.832 ppbv m

RT: 4.593 min Scan# 1392

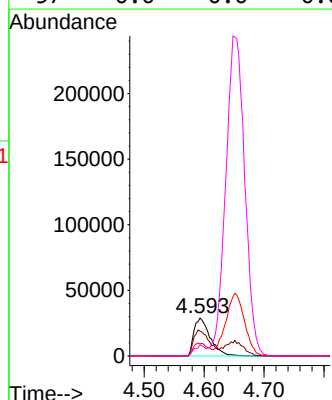
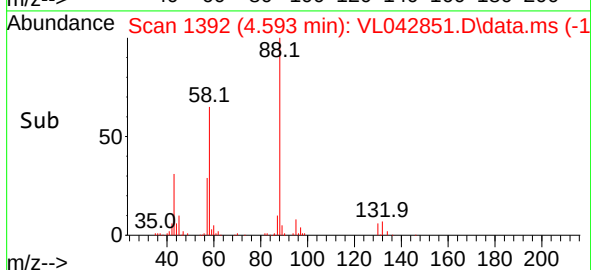
Delta R.T. 0.003 min

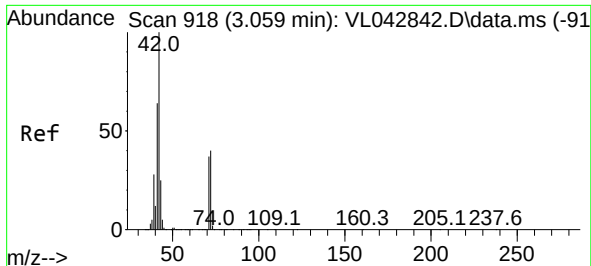
Lab File: VL042851.D

Acq: 13 Aug 2025 14:32



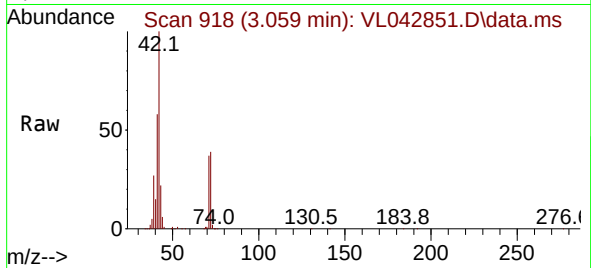
Tgt Ion:	88	Resp:	54081
Ion Ratio	100	Lower	Upper
88	100		
58	69.9	53.8	80.6
43	35.7	22.8	34.2
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 9.204 ppbv
RT: 3.059 min Scan# 918
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

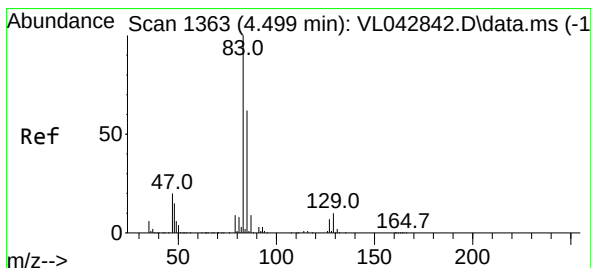
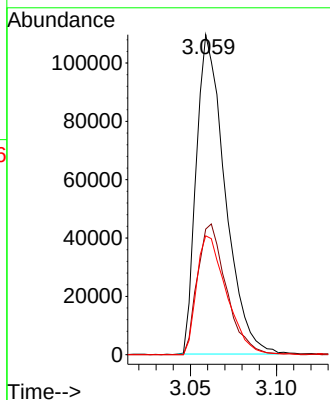
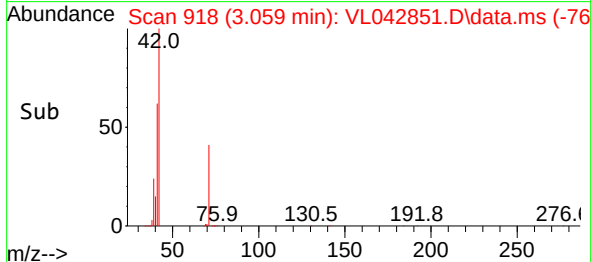
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



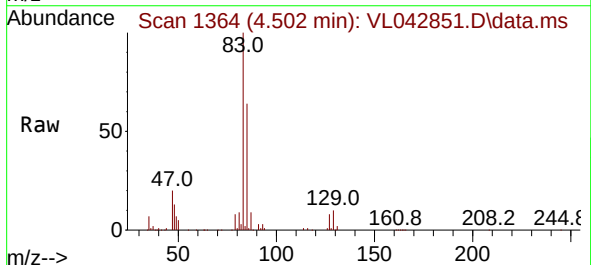
Tgt Ion: 42 Resp: 127578
Ion Ratio Lower Upper
42 100
72 41.2 32.6 48.8
71 38.9 30.0 45.0

Manual Integrations
APPROVED

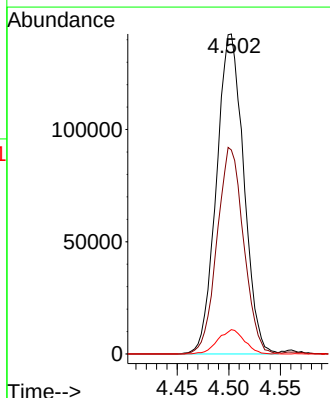
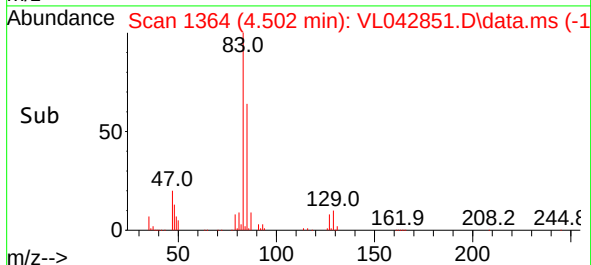
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

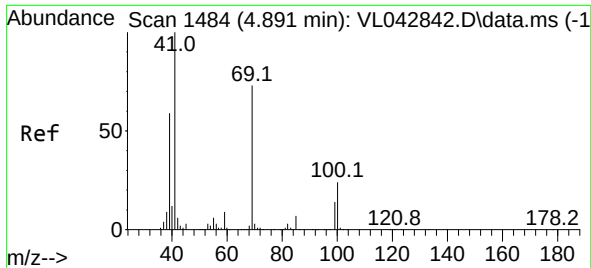


#42
Bromodichloromethane
Concen: 9.522 ppbv
RT: 4.502 min Scan# 1364
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32



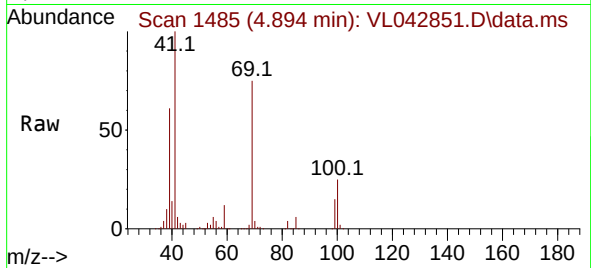
Tgt Ion: 83 Resp: 261380
Ion Ratio Lower Upper
83 100
85 63.8 49.8 74.8
127 7.6 5.8 8.6





#43
Methyl Methacrylate
Concen: 9.042 ppbv
RT: 4.894 min Scan# 1484
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

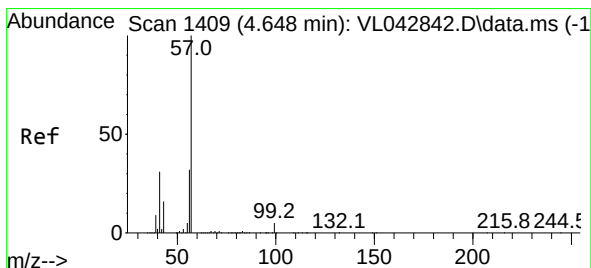
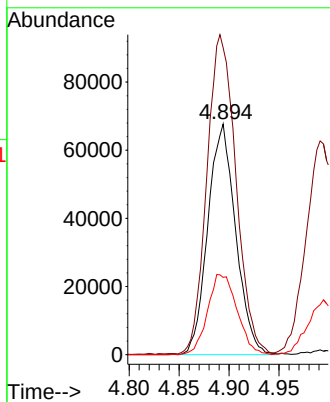
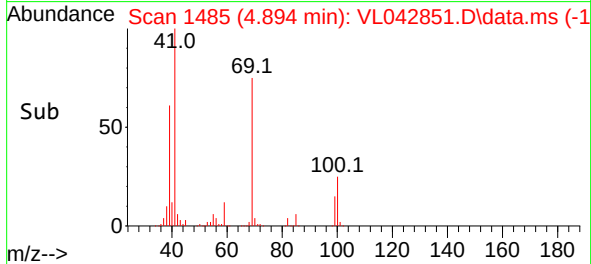
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



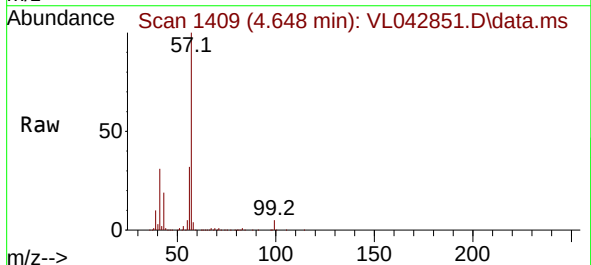
Tgt Ion: 69 Resp: 131335
Ion Ratio Lower Upper
69 100
41 145.5 114.6 172.0
100 36.8 30.2 45.4

Manual Integrations
APPROVED

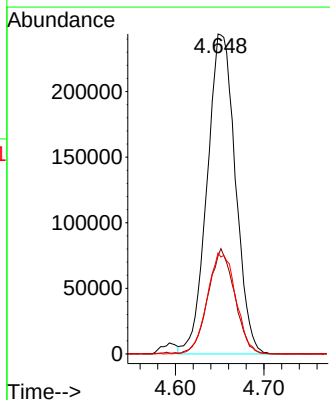
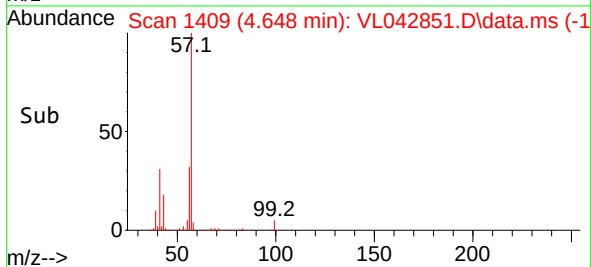
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

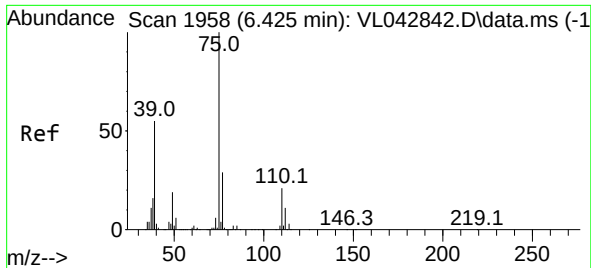


#44
2,2,4-Trimethylpentane
Concen: 9.039 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32



Tgt Ion: 57 Resp: 540935
Ion Ratio Lower Upper
57 100
41 31.5 24.8 37.2
56 31.9 25.5 38.3





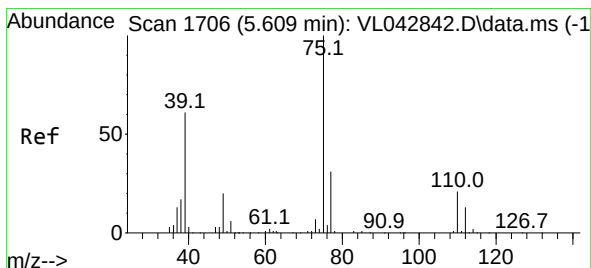
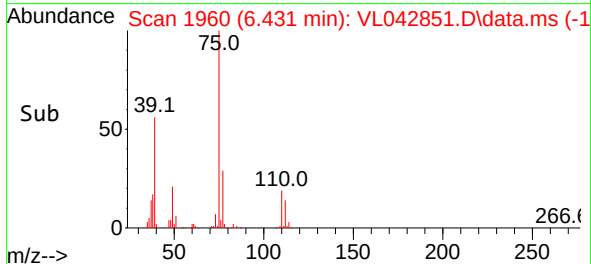
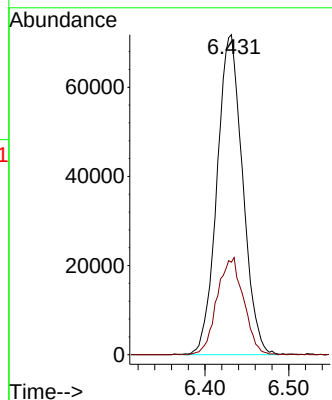
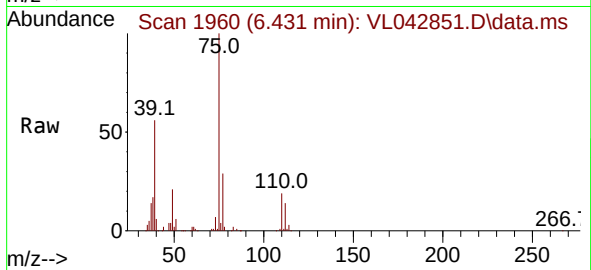
#45
t-1,3-Dichloropropene
Concen: 9.309 ppbv
RT: 6.431 min Scan# 1958
Delta R.T. 0.006 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

Tgt Ion: 75 Resp: 15258
Ion Ratio Lower Upper
75 100
77 28.9 23.8 35.6

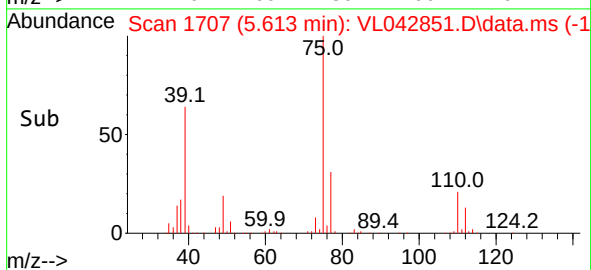
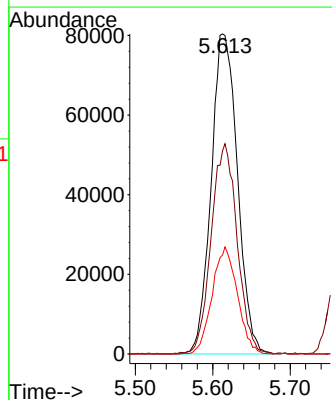
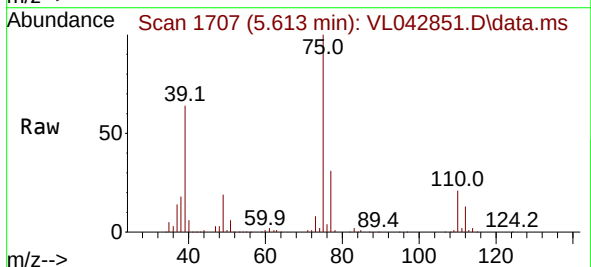
Manual Integrations
APPROVED

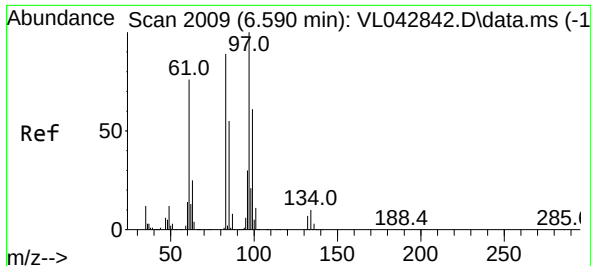
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#46
cis-1,3-Dichloropropene
Concen: 9.285 ppbv
RT: 5.613 min Scan# 1707
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

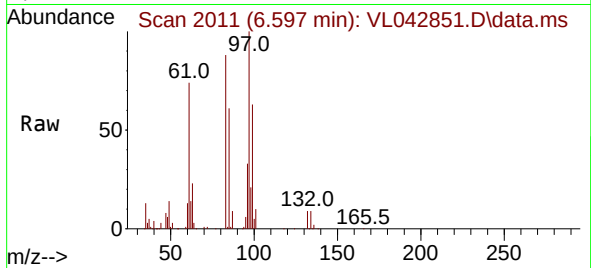
Tgt Ion: 75 Resp: 189646
Ion Ratio Lower Upper
75 100
39 63.2 48.9 73.3
77 30.9 24.9 37.3





#47
1,1,2-Trichloroethane
Concen: 9.357 ppbv
RT: 6.597 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

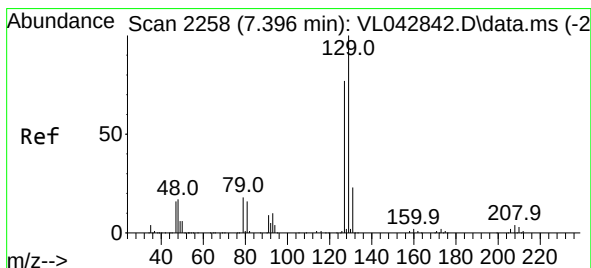
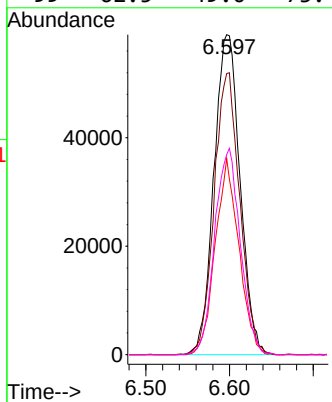
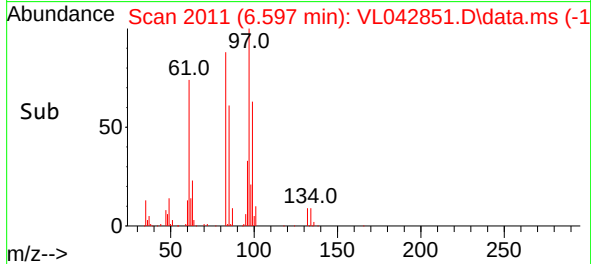
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



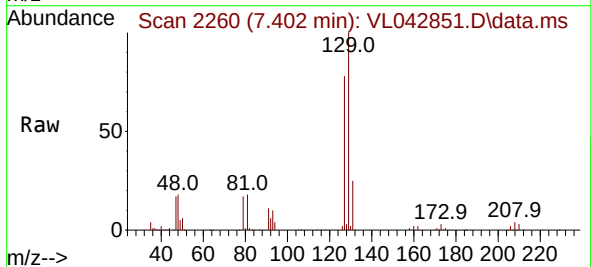
Tgt Ion: 97 Resp: 12766
Ion Ratio Lower Upper
97 100
83 87.8 71.0 106.4
85 61.3 43.6 65.4
99 62.5 49.0 73.4

Manual Integrations
APPROVED

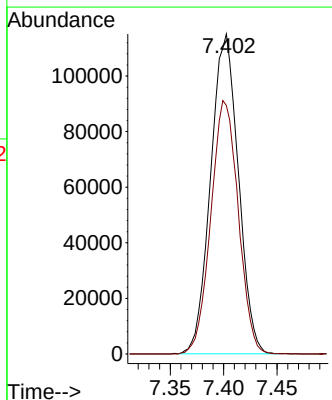
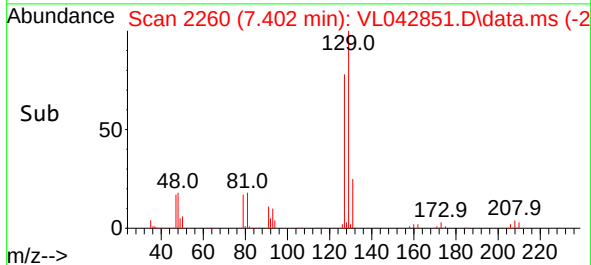
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

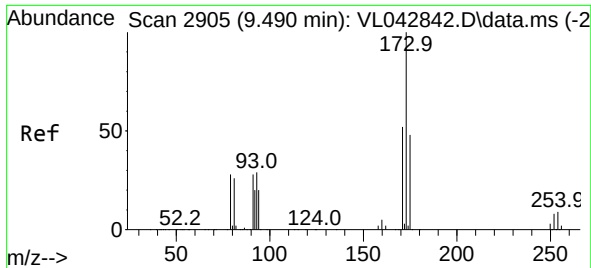


#48
Dibromochloromethane
Concen: 9.412 ppbv
RT: 7.402 min Scan# 2260
Delta R.T. 0.006 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32



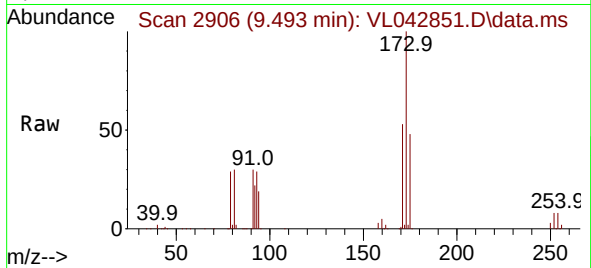
Tgt Ion:129 Resp: 207804
Ion Ratio Lower Upper
129 100
127 78.4 39.4 118.2





#49
Bromoform
Concen: 9.228 ppbv
RT: 9.493 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

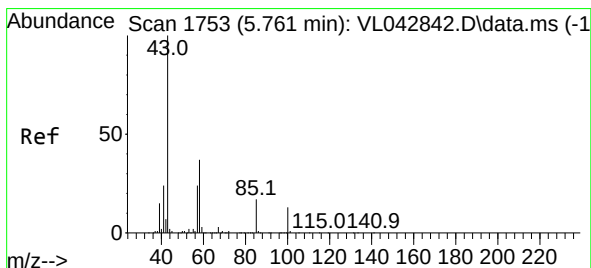
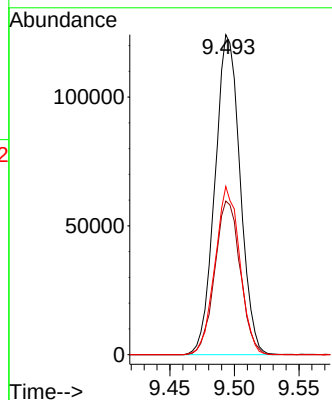
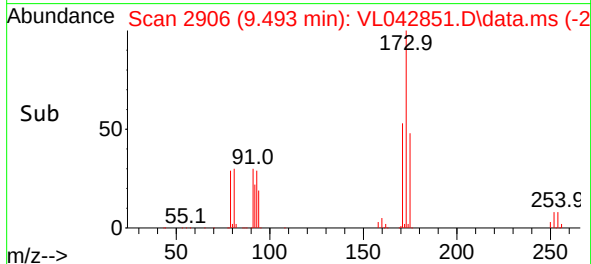
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



Tgt Ion: 173 Resp: 168015
Ion Ratio Lower Upper
173 100
175 48.7 39.2 58.8
171 51.7 41.3 61.9

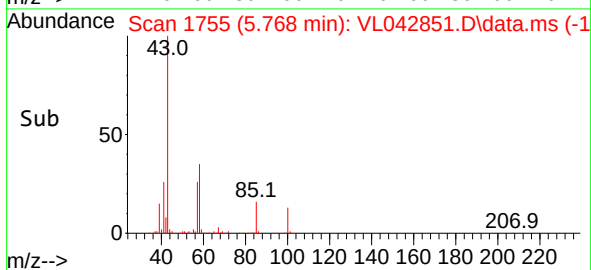
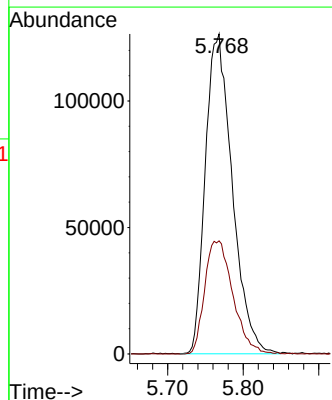
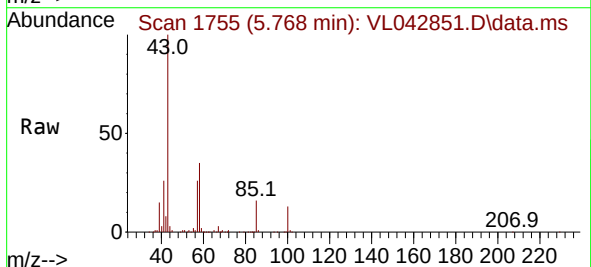
Manual Integrations
APPROVED

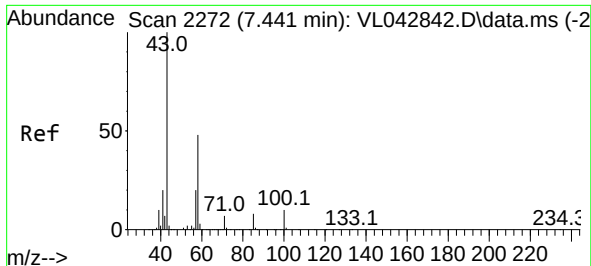
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#50
4-Methyl-2-Pentanone
Concen: 9.286 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.006 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

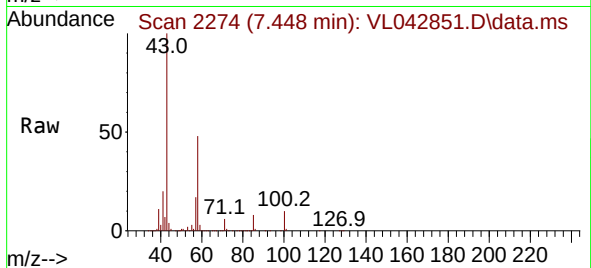
Tgt Ion: 43 Resp: 312046
Ion Ratio Lower Upper
43 100
58 37.2 29.8 44.8





#51
2-Hexanone
Concen: 9.404 ppbv
RT: 7.448 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

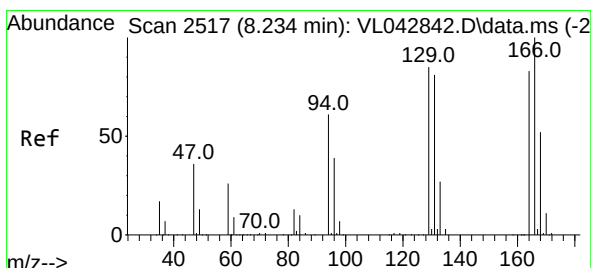
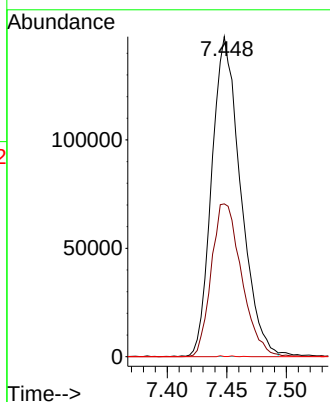
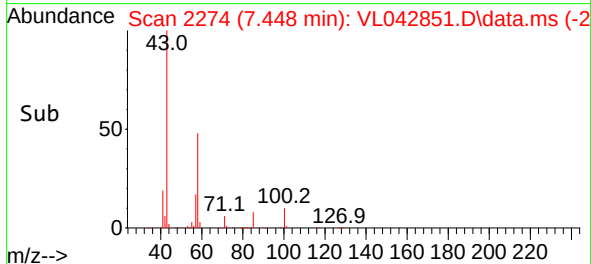
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



Tgt Ion: 43 Resp: 248690
Ion Ratio Lower Upper
43 100
58 50.3 41.0 61.6
98 0.1 0.1 0.1

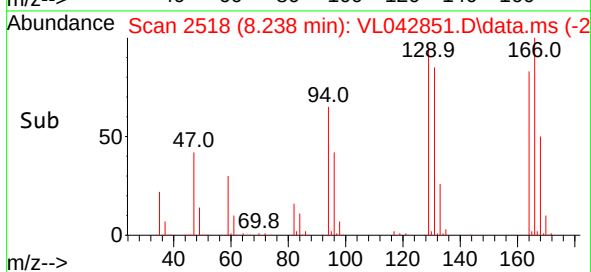
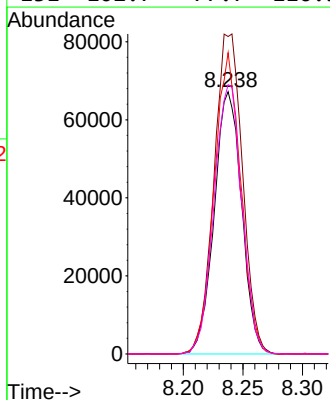
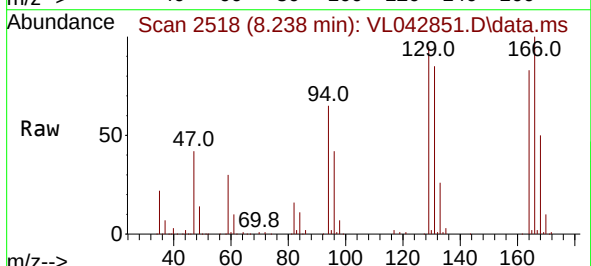
Manual Integrations
APPROVED

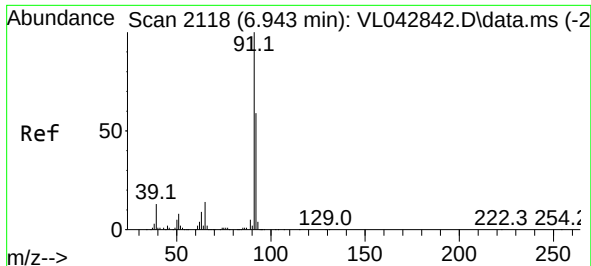
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#52
Tetrachloroethene
Concen: 8.434 ppbv
RT: 8.238 min Scan# 2518
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

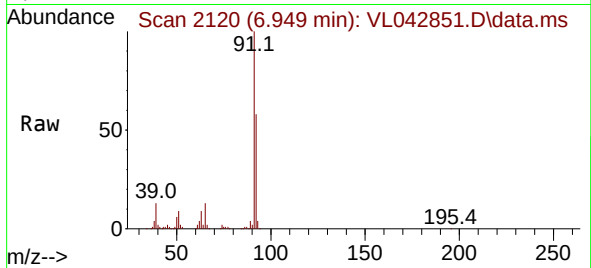
Tgt Ion:164 Resp: 107577
Ion Ratio Lower Upper
164 100
166 121.0 96.5 144.7
129 114.9 81.8 122.6
131 102.7 77.7 116.5





#53
Toluene
Concen: 9.216 ppbv
RT: 6.949 min Scan# 2118
Delta R.T. 0.006 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

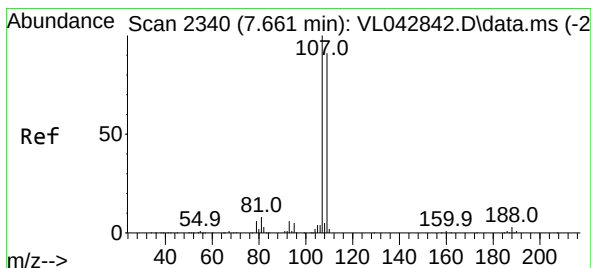
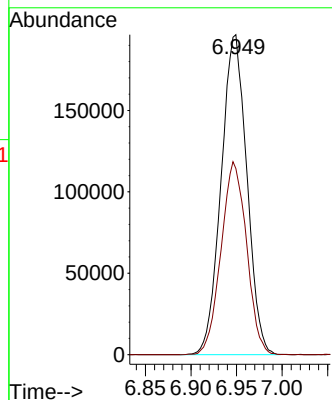
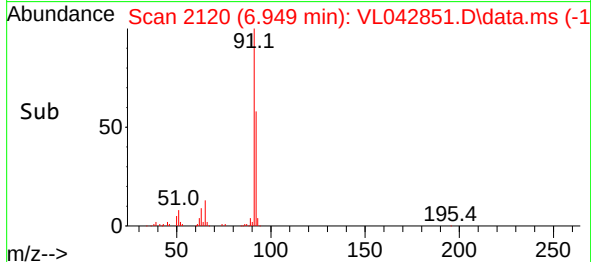
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



Tgt Ion: 91 Resp: 38629
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6

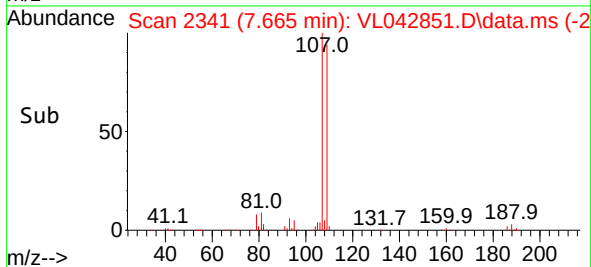
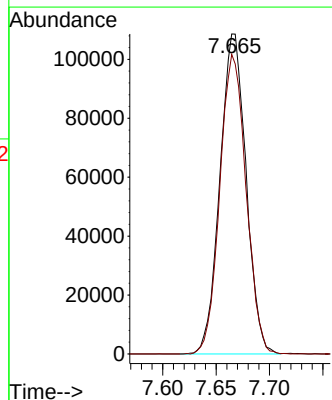
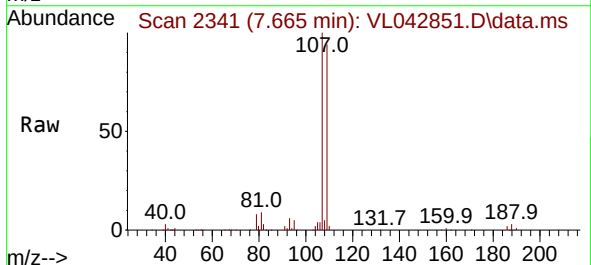
Manual Integrations
APPROVED

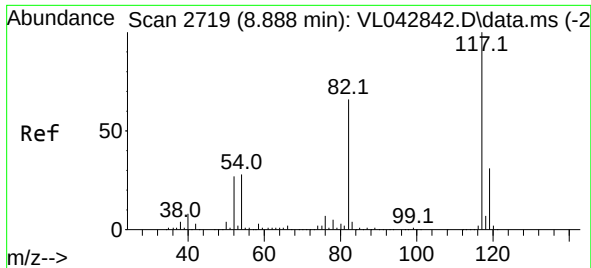
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#54
1,2-Dibromoethane
Concen: 9.275 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion:107 Resp: 184932
Ion Ratio Lower Upper
107 100
109 93.6 72.5 108.7





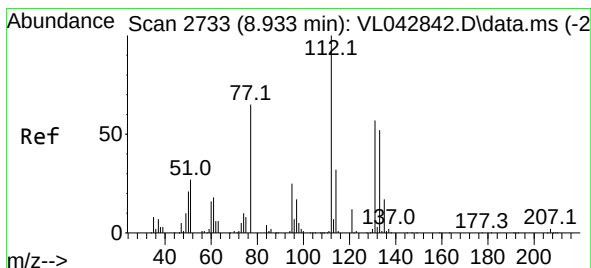
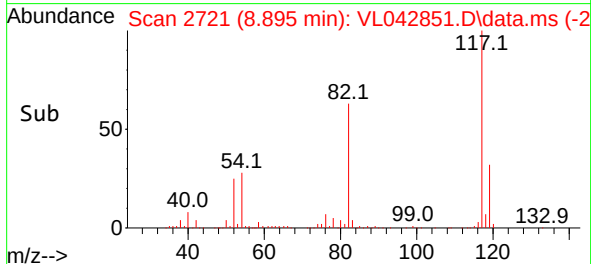
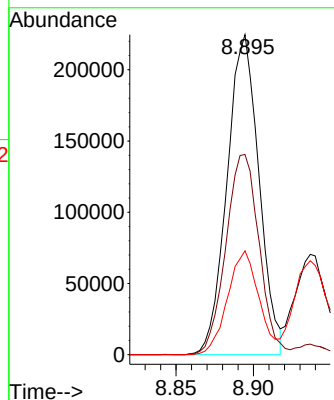
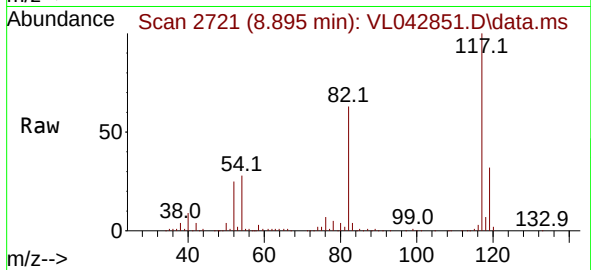
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2719
Delta R.T. 0.006 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

Tgt Ion:117 Resp: 32229
Ion Ratio Lower Upper
117 100
82 67.9 54.6 81.8
119 31.0 25.9 38.9

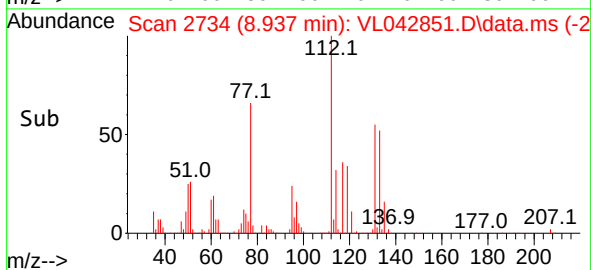
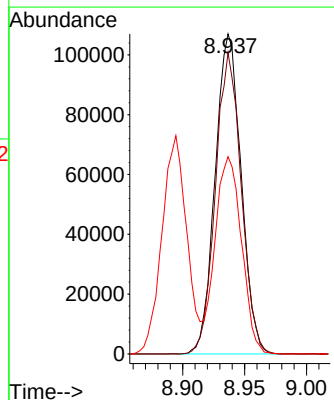
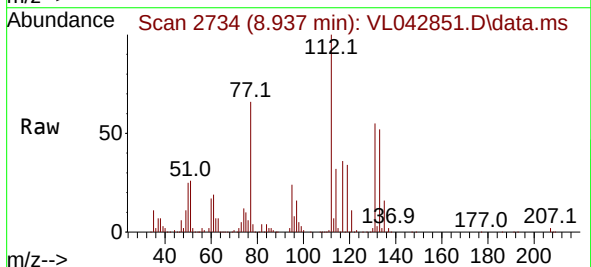
Manual Integrations
APPROVED

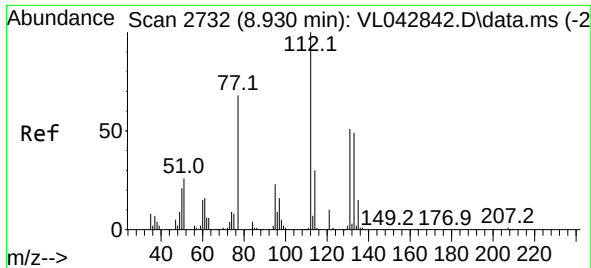
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.381 ppbv
RT: 8.937 min Scan# 2734
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

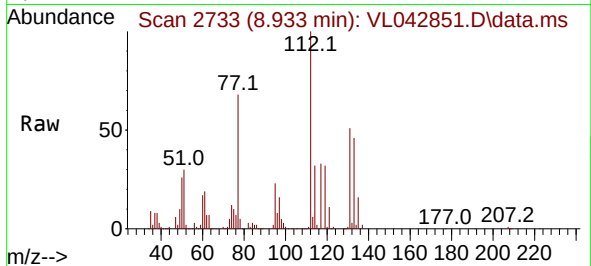
Tgt Ion:131 Resp: 156352
Ion Ratio Lower Upper
131 100
133 93.5 77.4 116.0
119 63.4 51.2 76.8





#57
Chlorobenzene
Concen: 9.326 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

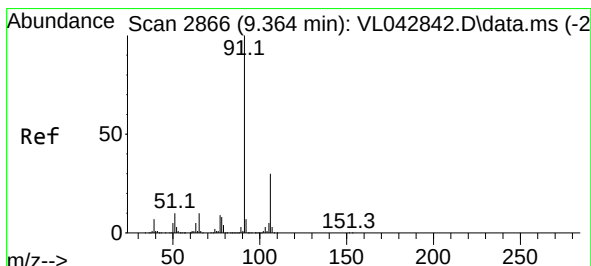
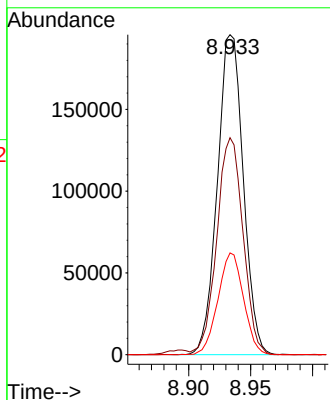
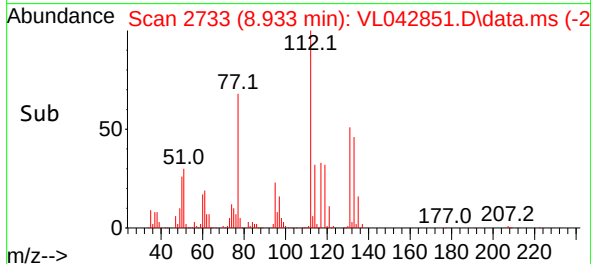
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



Tgt Ion:112 Resp: 285789
Ion Ratio Lower Upper
112 100
77 67.7 55.5 83.3
114 31.8 27.2 33.2

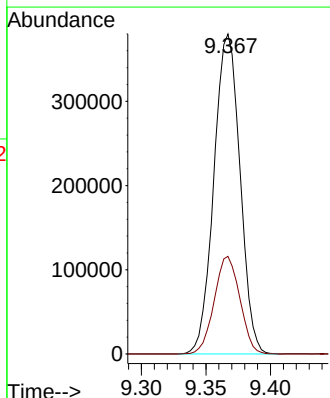
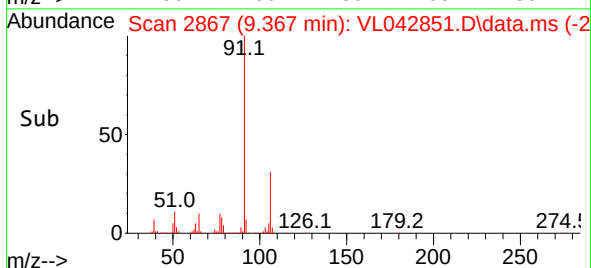
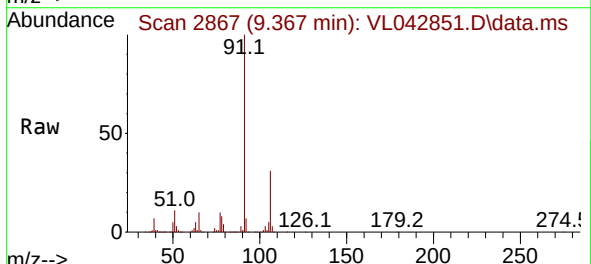
Manual Integrations
APPROVED

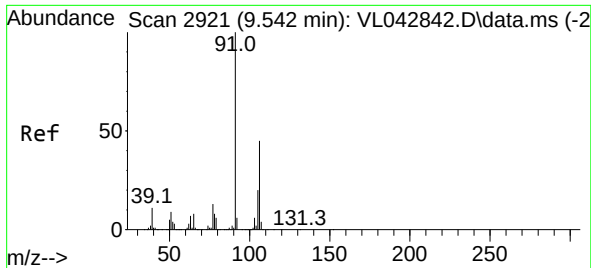
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#58
Ethyl Benzene
Concen: 9.389 ppbv
RT: 9.367 min Scan# 2867
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion: 91 Resp: 534013
Ion Ratio Lower Upper
91 100
106 30.5 23.9 35.9





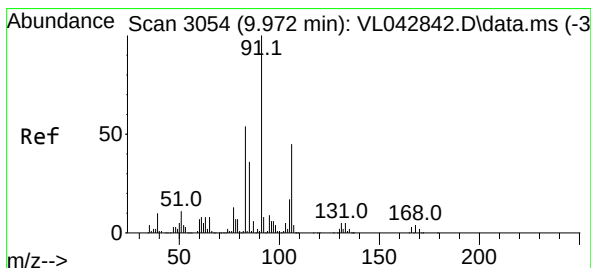
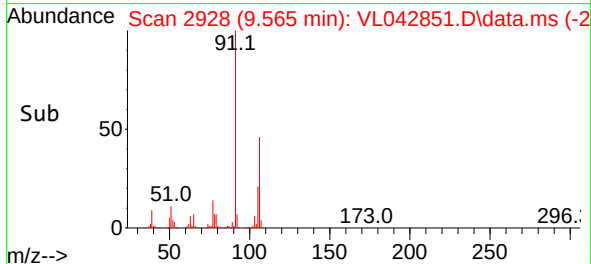
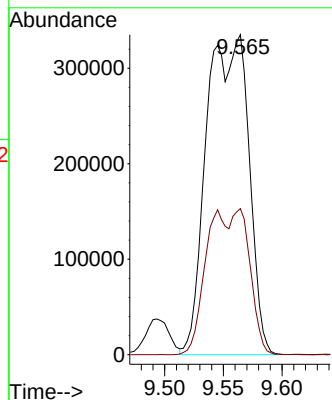
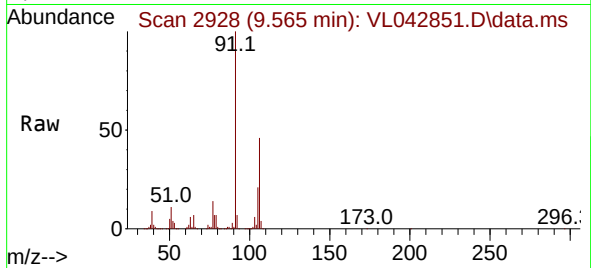
#59
m/p-Xylene
Concen: 18.783 ppbv m
RT: 9.565 min Scan# 2921
Delta R.T. 0.023 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

Tgt Ion: 91 Resp: 837335
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

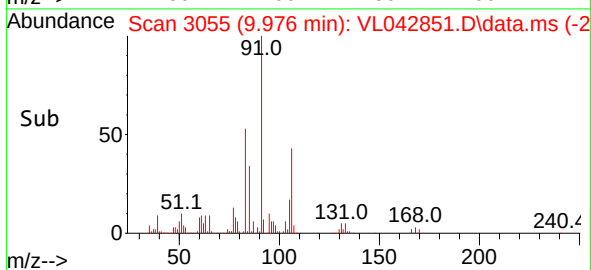
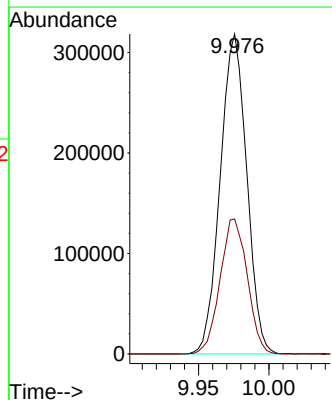
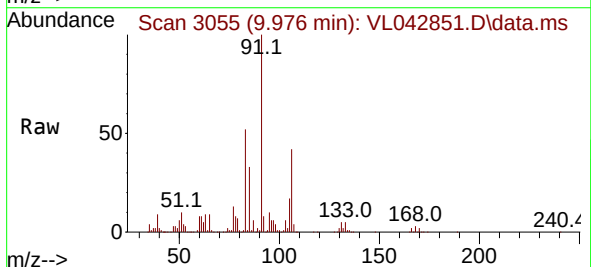
Manual Integrations
APPROVED

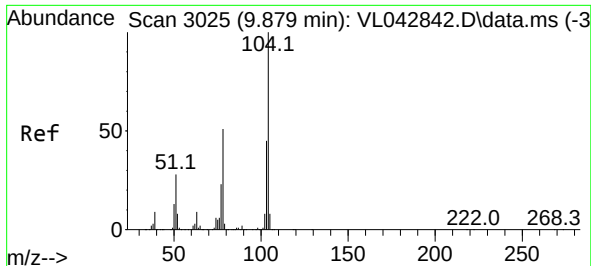
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#60
o-Xylene
Concen: 9.308 ppbv
RT: 9.976 min Scan# 3055
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

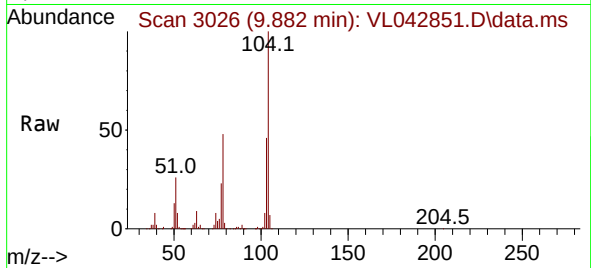
Tgt Ion: 91 Resp: 417423
Ion Ratio Lower Upper
91 100
106 43.4 21.8 65.4





#61
Styrene
Concen: 9.414 ppbv
RT: 9.882 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

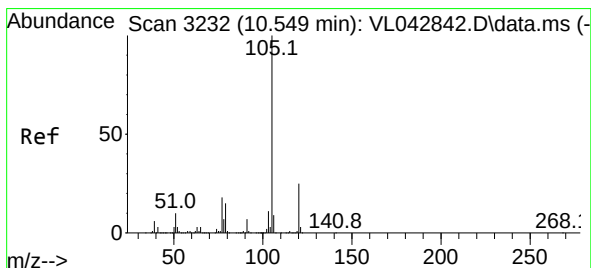
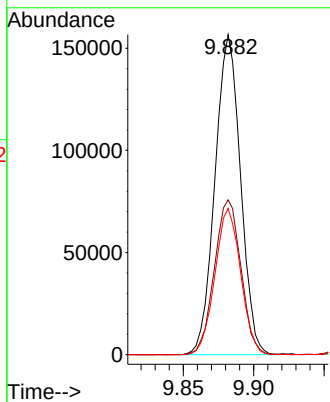
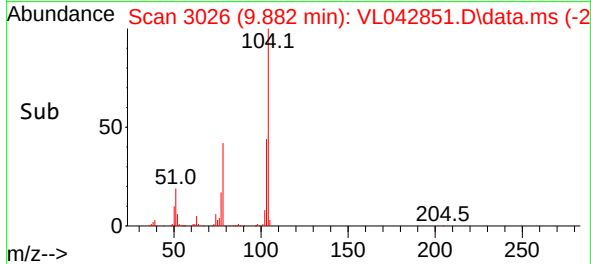
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



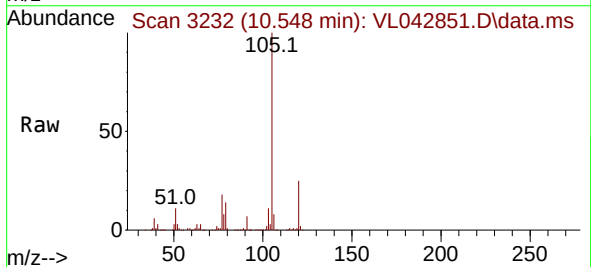
Tgt Ion:104 Resp: 197790
Ion Ratio Lower Upper
104 100
78 50.3 40.6 61.0
103 46.1 37.7 56.5

Manual Integrations
APPROVED

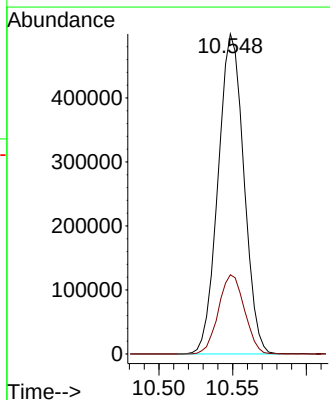
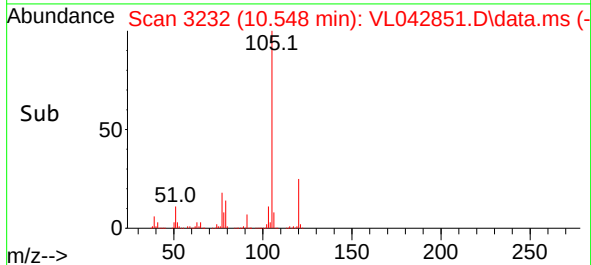
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

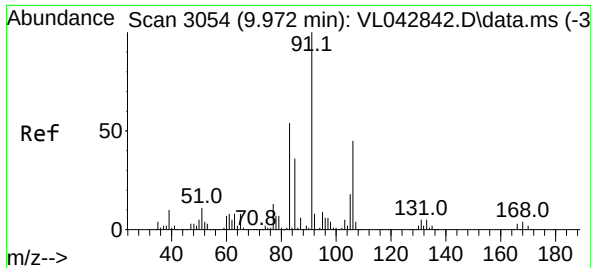


#62
Isopropylbenzene
Concen: 9.271 ppbv
RT: 10.548 min Scan# 3232
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32



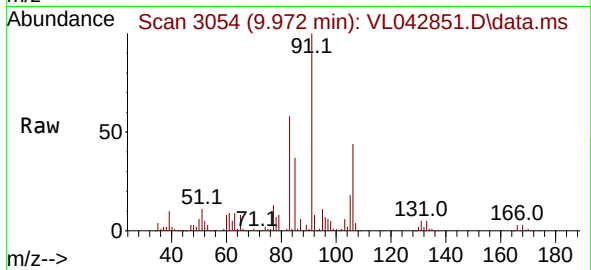
Tgt Ion:105 Resp: 607606
Ion Ratio Lower Upper
105 100
120 24.9 20.6 30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 8.990 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

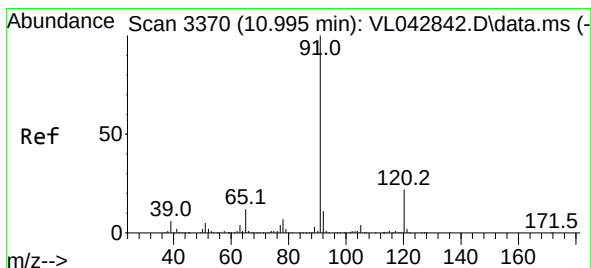
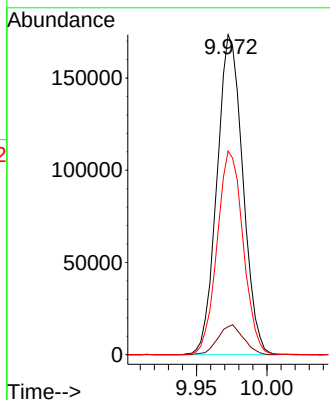
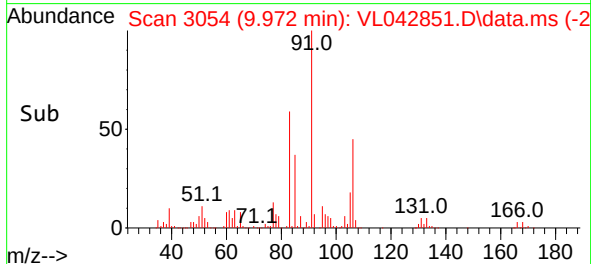
Instrument : MSVOA_L
ClientSampleId : VL0813ABS01



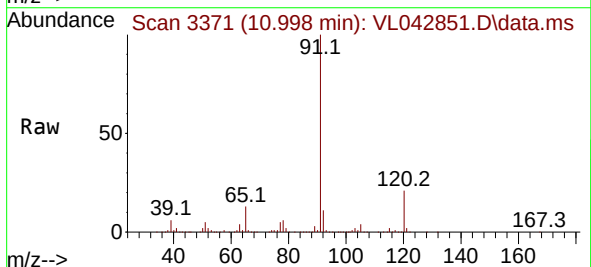
Tgt Ion: 83 Resp: 221710
Ion Ratio Lower Upper
83 100
131 9.3 4.8 14.3
85 64.1 32.3 96.8

Manual Integrations
APPROVED

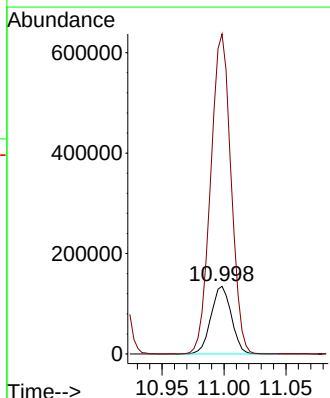
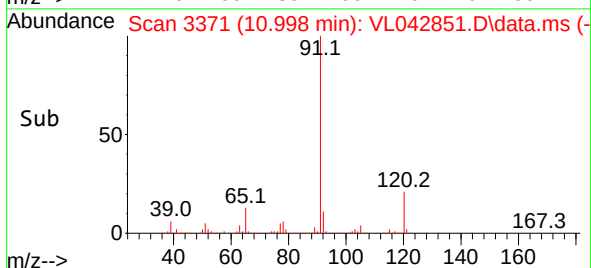
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

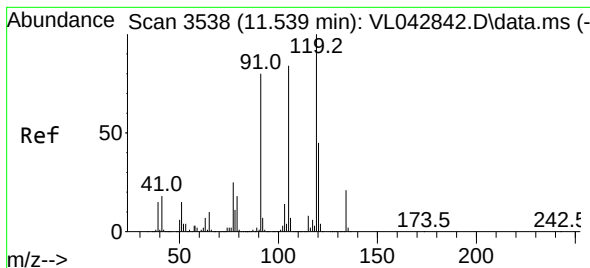


#64
n-propylbenzene
Concen: 9.205 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32



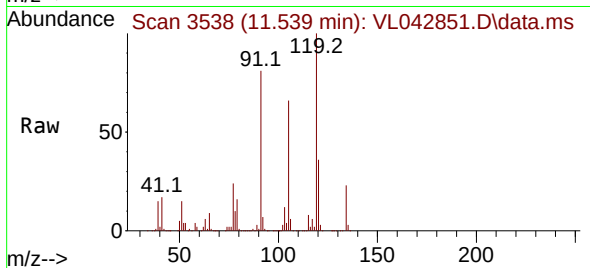
Tgt Ion:120 Resp: 153914
Ion Ratio Lower Upper
120 100
91 475.5 375.8 563.6





#65
tert-Butylbenzene
Concen: 8.983 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

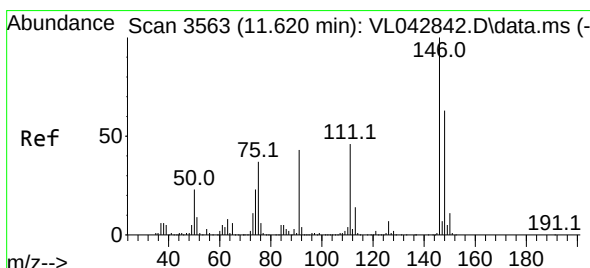
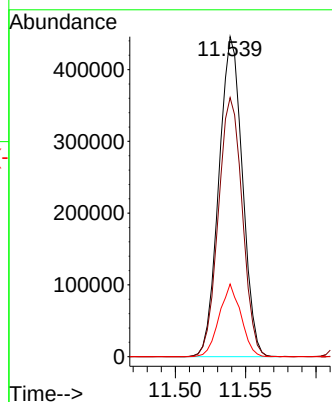
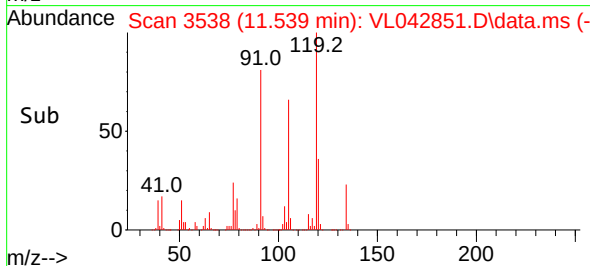
Instrument : MSVOA_L
ClientSampleId : VL0813ABS01



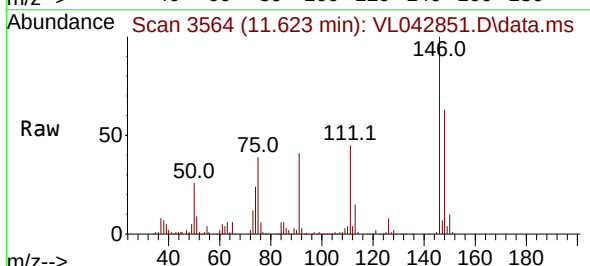
Tgt Ion: 119 Resp: 518992
Ion Ratio Lower Upper
119 100
91 82.2 63.9 95.9
134 21.0 17.0 25.4

Manual Integrations
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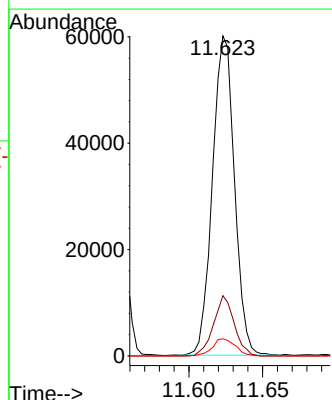
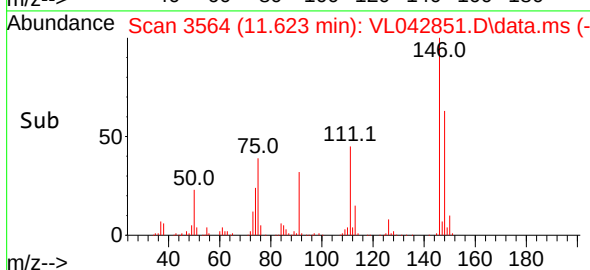
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

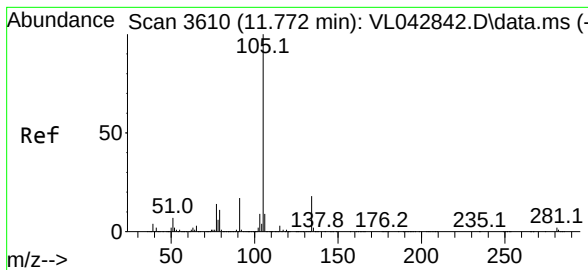


#66
Benzyl Chloride
Concen: 8.494 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32



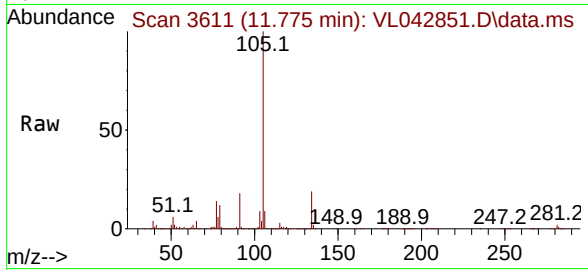
Tgt Ion: 91 Resp: 62299
Ion Ratio Lower Upper
91 100
126 17.7 14.2 21.4
128 5.7 5.0 7.6





#67
 sec-Butylbenzene
 Concen: 9.141 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

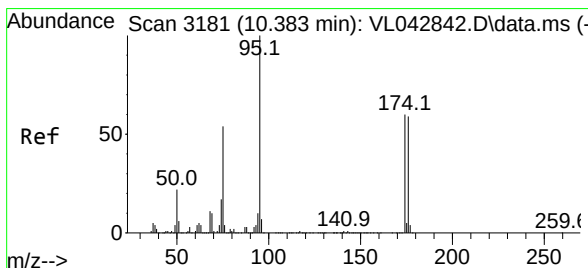
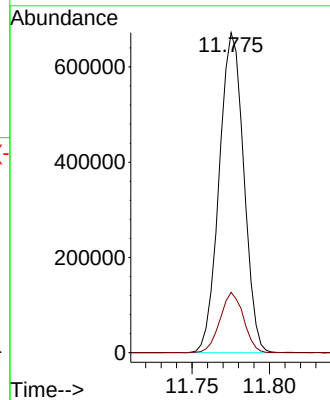
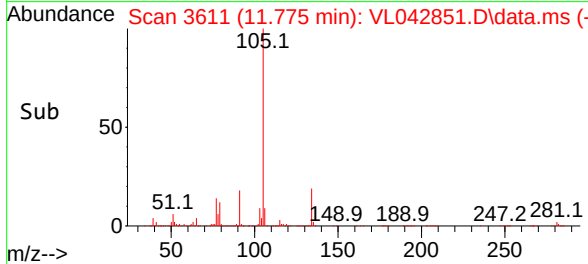
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABS01



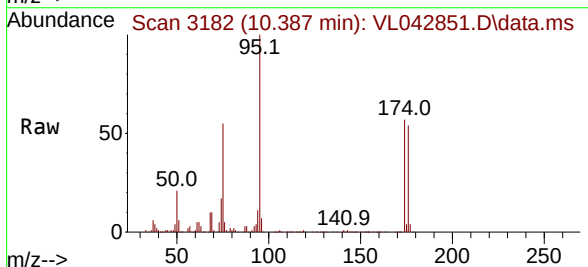
Tgt Ion:105 Resp: 741280
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.9 22.3

Manual Integrations
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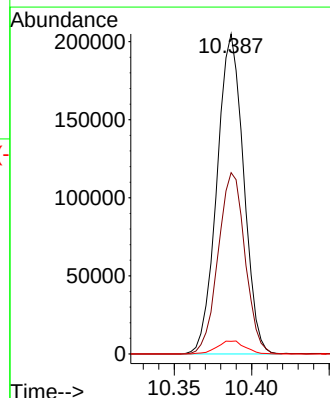
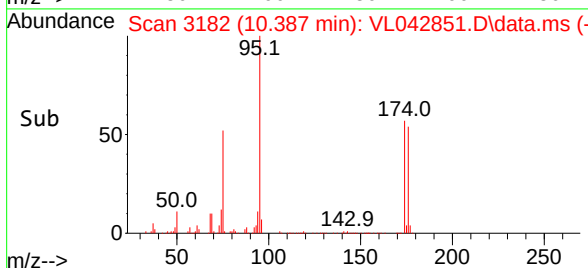
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

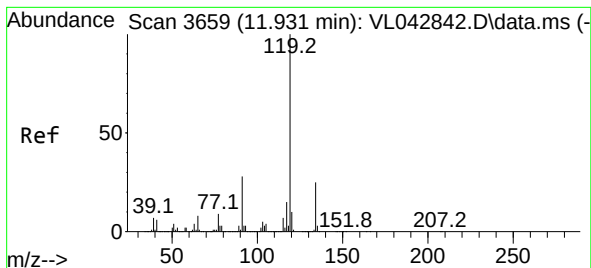


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.134 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32



Tgt Ion: 95 Resp: 244955
 Ion Ratio Lower Upper
 95 100
 174 57.3 48.4 72.6
 175 4.2 3.8 5.8





#69

p-Isopropyltoluene

Concen: 8.795 ppbv

RT: 11.934 min Scan# 3659

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABS01

Tgt Ion:119 Resp: 612310

Ion Ratio Lower Upper

119 100

134 24.7 20.6 30.8

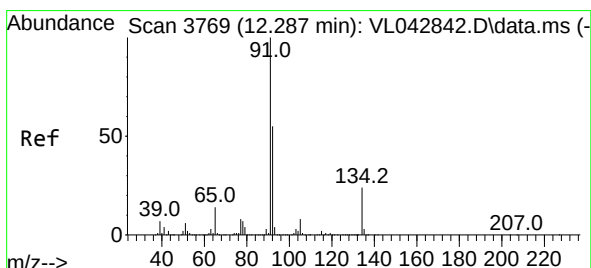
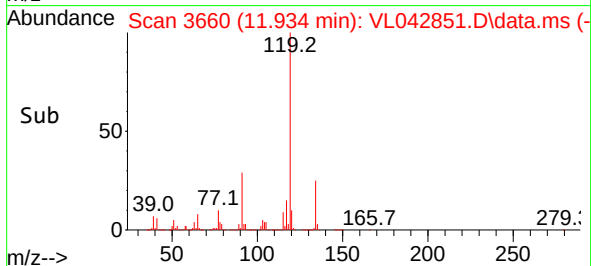
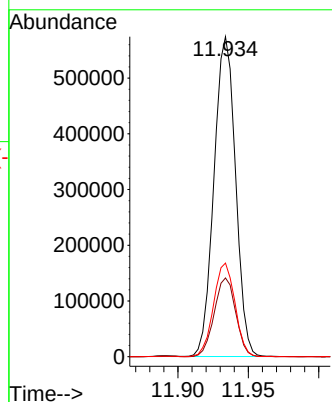
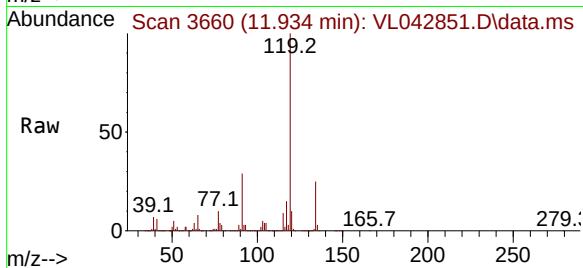
91 29.3 22.6 34.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#70

n-Butylbenzene

Concen: 9.122 ppbv

RT: 12.290 min Scan# 3770

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

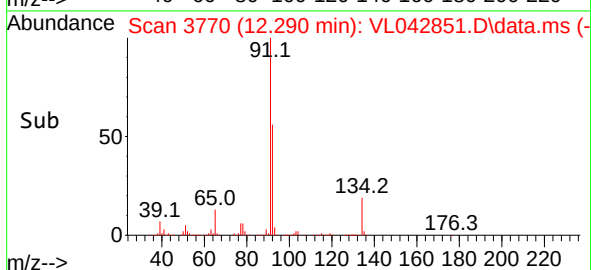
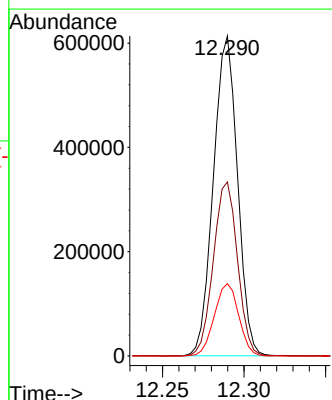
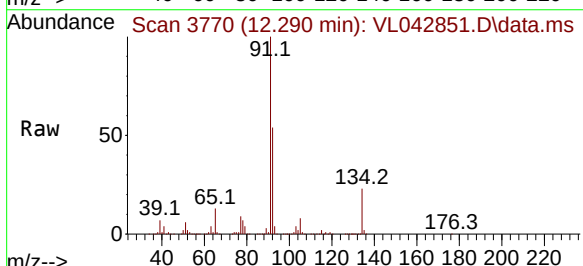
Tgt Ion: 91 Resp: 629840

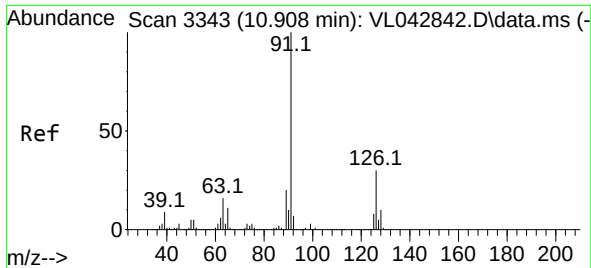
Ion Ratio Lower Upper

91 100

92 54.6 44.6 66.8

134 22.9 19.0 28.4





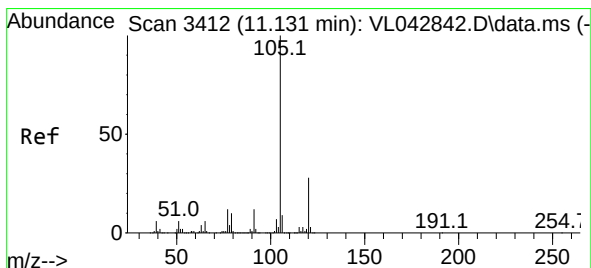
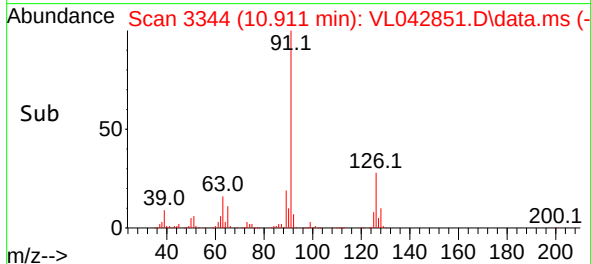
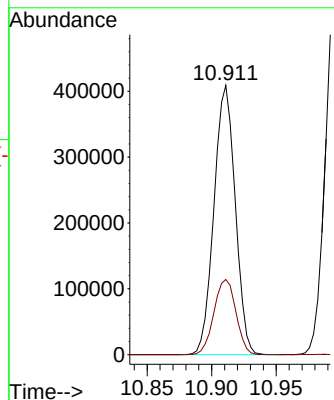
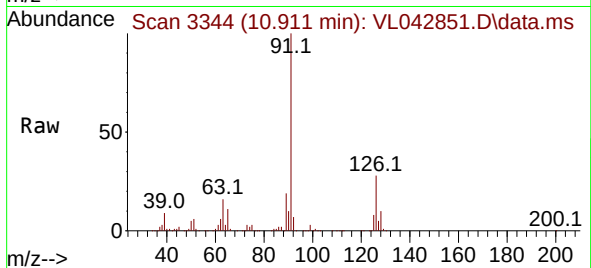
#71
2-Chlorotoluene
Concen: 9.188 ppbv
RT: 10.911 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

Tgt Ion: 91 Resp: 467569
Ion Ratio Lower Upper
91 100
126 28.9 12.0 47.8

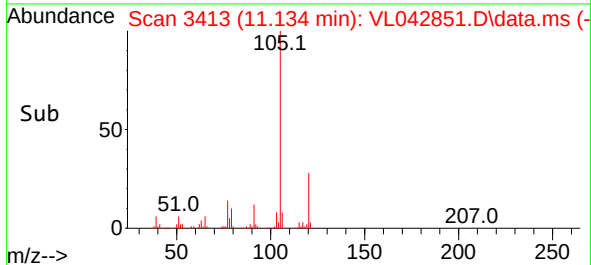
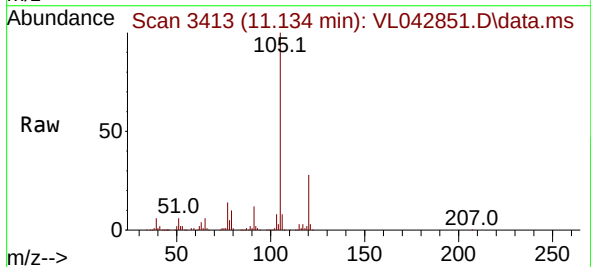
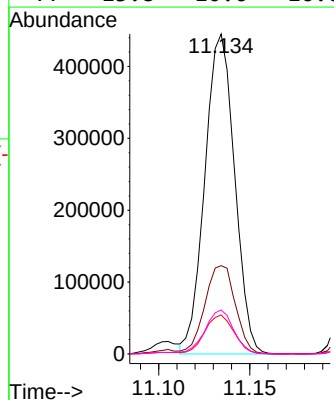
Manual Integrations
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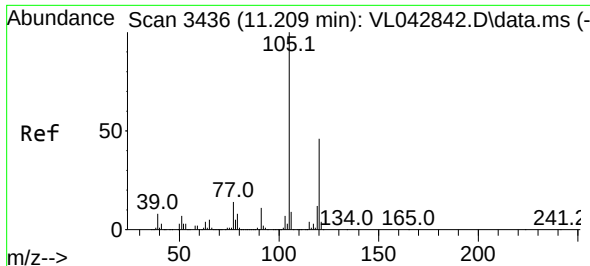
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#72
4-Ethyltoluene
Concen: 9.297 ppbv
RT: 11.134 min Scan# 3413
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

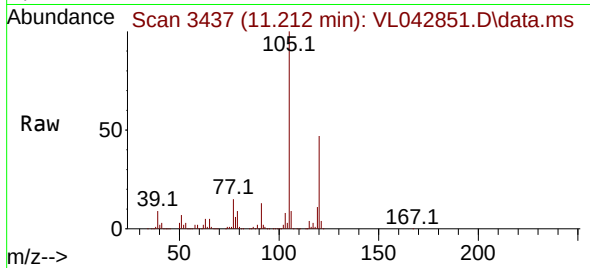
Tgt Ion:105 Resp: 505391
Ion Ratio Lower Upper
105 100
120 29.5 23.4 35.2
91 12.6 9.8 14.6
77 13.8 10.6 16.0





#73
1,3,5-Trimethylbenzene
Concen: 9.210 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

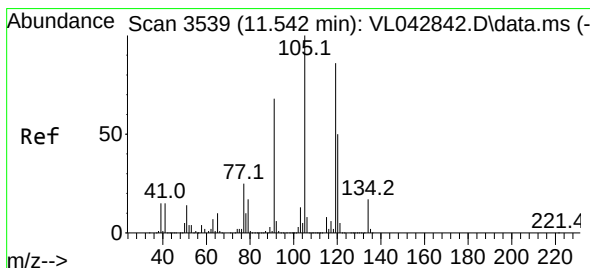
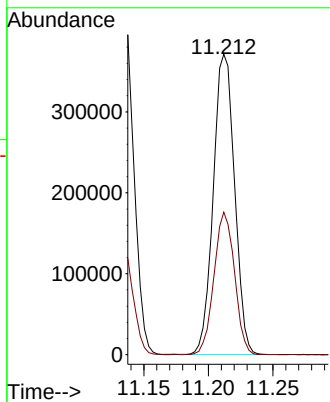
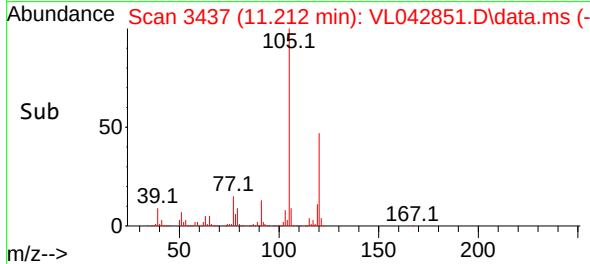
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



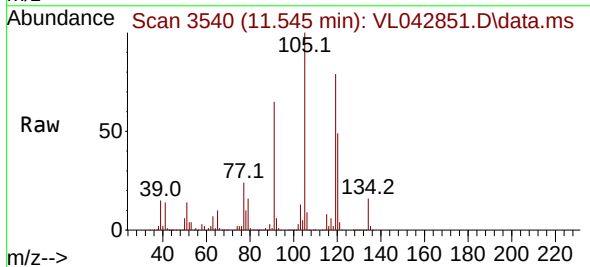
Tgt Ion:105 Resp: 425759
Ion Ratio Lower Upper
105 100
120 47.5 36.6 54.8

Manual Integrations
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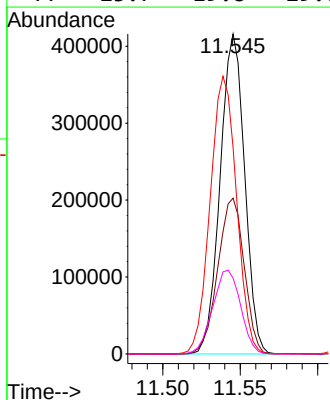
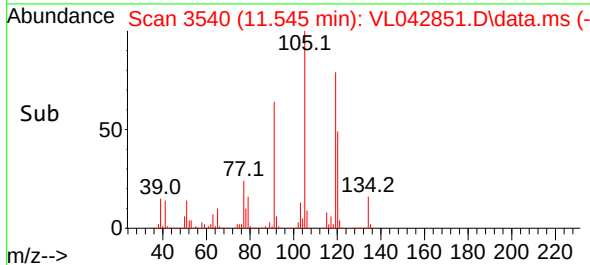
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

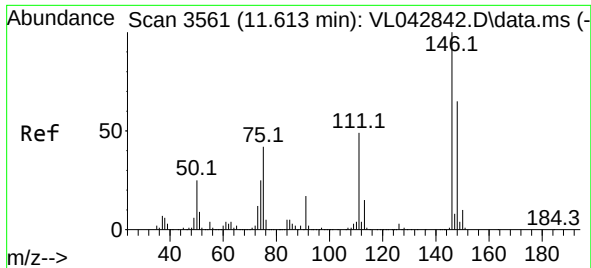


#74
1,2,4-Trimethylbenzene
Concen: 9.005 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32



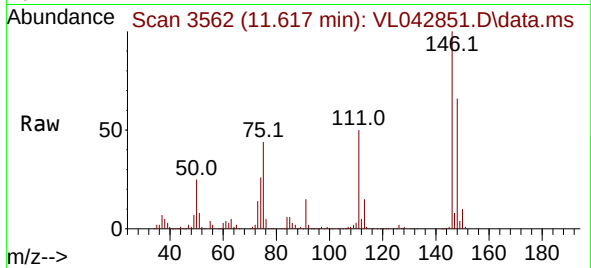
Tgt Ion:105 Resp: 456933
Ion Ratio Lower Upper
105 100
120 48.7 39.8 59.6
91 64.5 54.2 81.4
77 23.7 19.8 29.6





#75
1,3-Dichlorobenzene
Concen: 8.997 ppbv
RT: 11.617 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

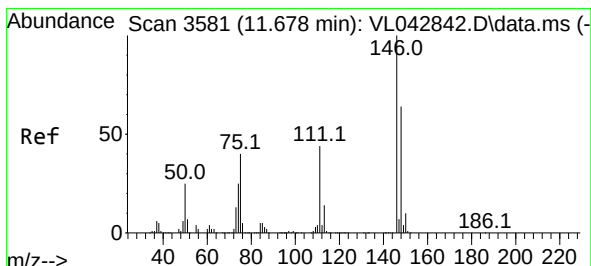
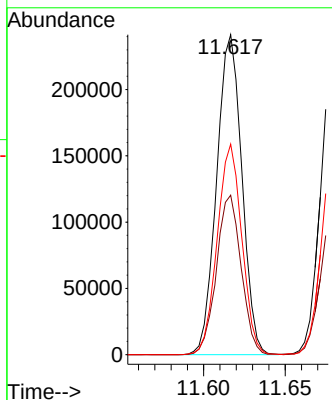
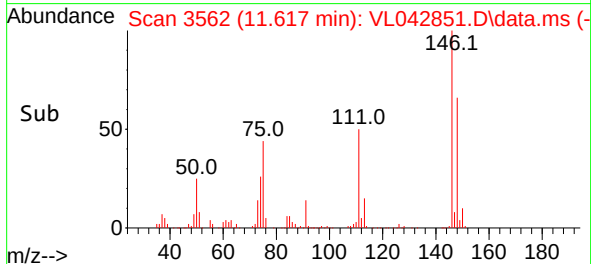
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01



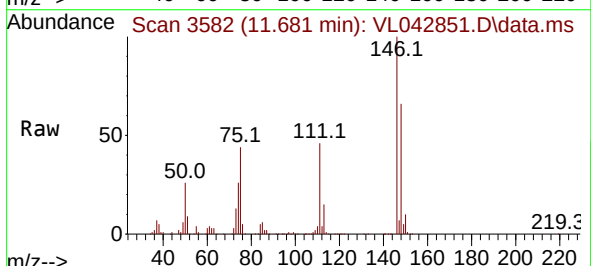
Tgt Ion:146 Resp: 25954
Ion Ratio Lower Upper
146 100
111 48.9 23.9 71.7
148 64.2 31.4 94.0

Manual Integrations
APPROVED

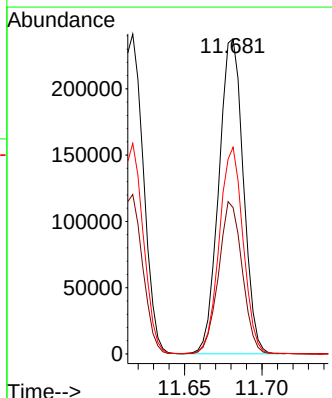
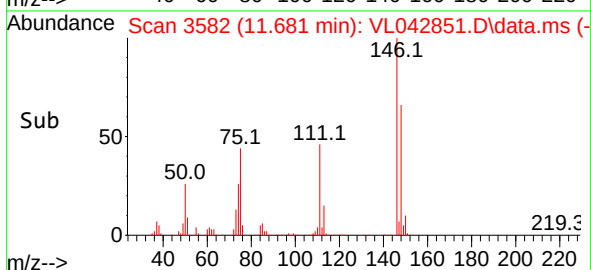
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

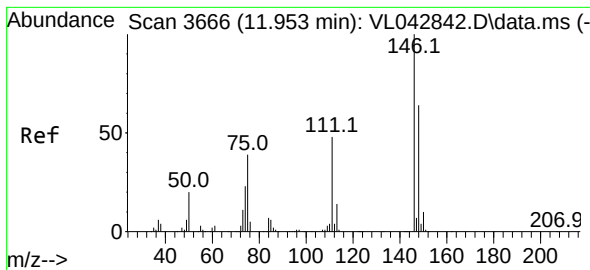


#76
1,4-Dichlorobenzene
Concen: 8.957 ppbv
RT: 11.681 min Scan# 3582
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32



Tgt Ion:146 Resp: 261302
Ion Ratio Lower Upper
146 100
111 46.8 22.7 68.1
148 64.1 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 8.866 ppbv

RT: 11.956 min Scan# 30

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABS01

Tgt Ion:146 Resp: 25043

Ion Ratio Lower Upper

146 100

111 49.6 24.6 74.0

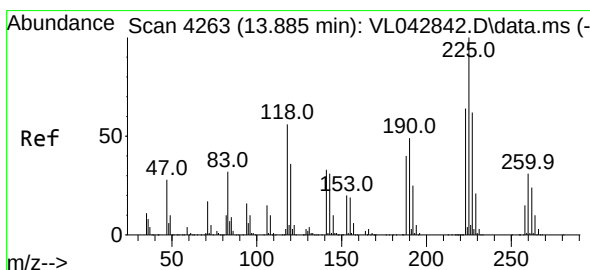
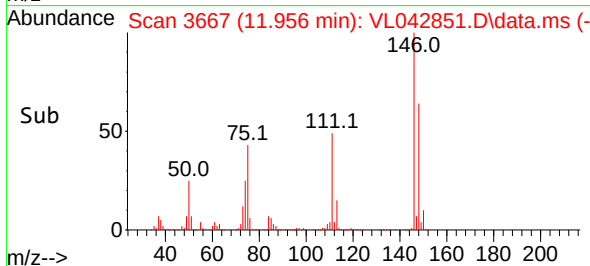
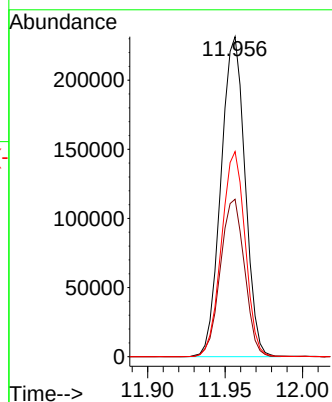
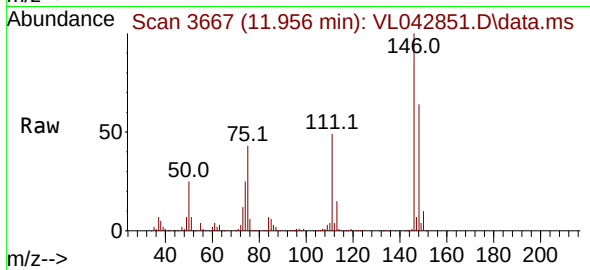
148 63.1 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#78

Hexachloro-1,3-Butadiene

Concen: 7.488 ppbv

RT: 13.889 min Scan# 4264

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

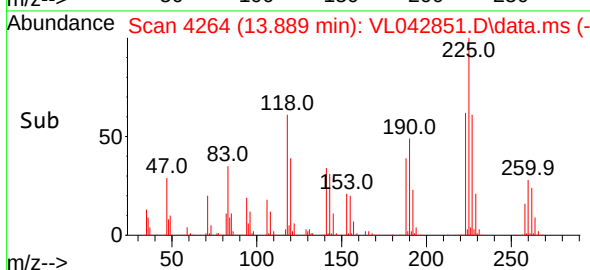
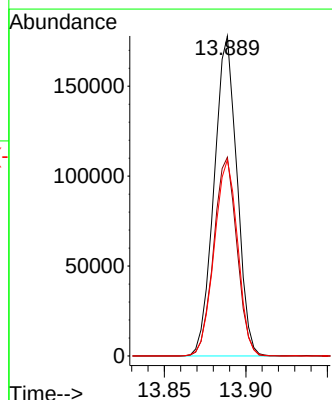
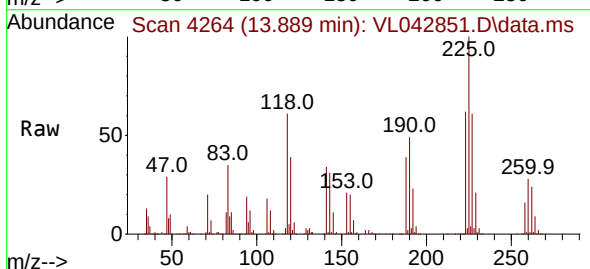
Tgt Ion:225 Resp: 173363

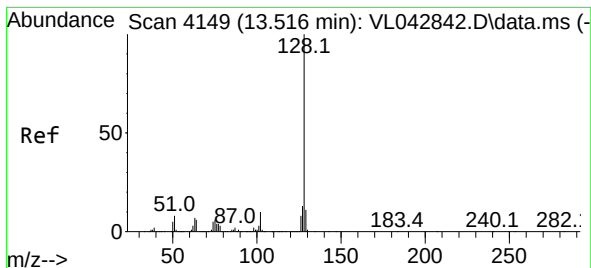
Ion Ratio Lower Upper

225 100

223 63.0 51.4 77.2

227 63.0 51.9 77.9





#79

Naphthalene

Concen: 8.930 ppbv

RT: 13.520 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABS01

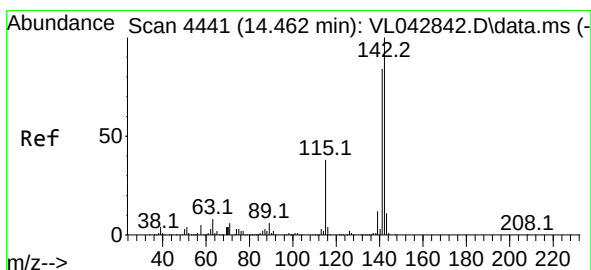
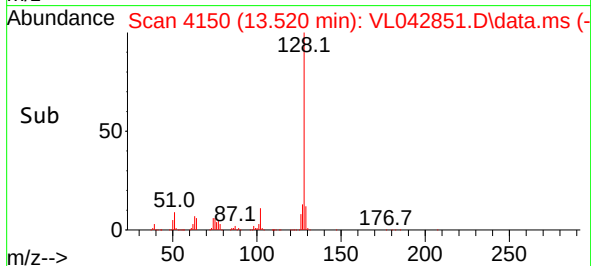
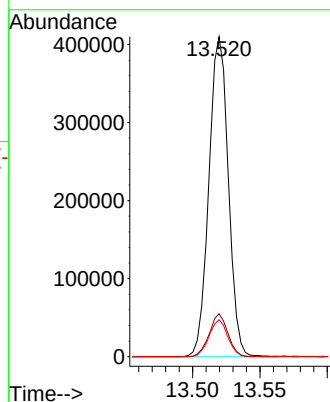
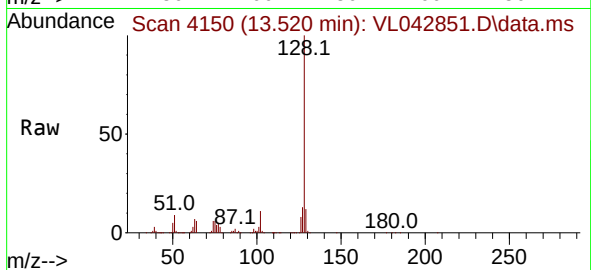
Tgt Ion:128 Resp: 410790

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	16.0
129	11.5	8.9	13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#80

Naphthalene,2-methyl-

Concen: 8.473 ppbv

RT: 14.462 min Scan# 4441

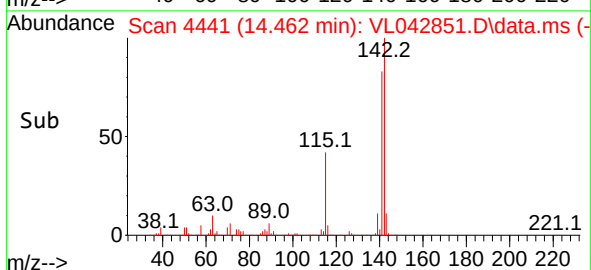
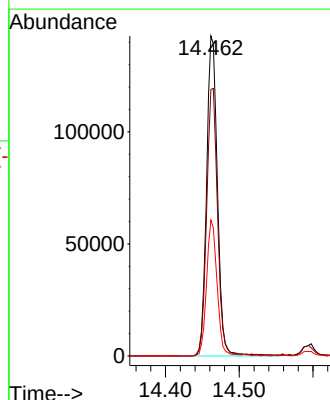
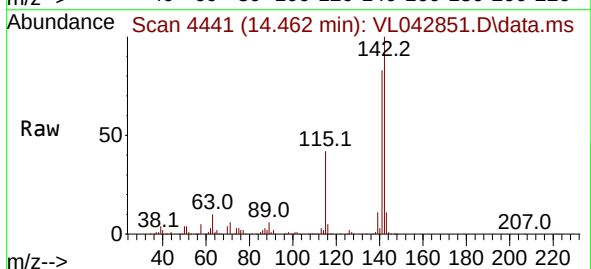
Delta R.T. -0.000 min

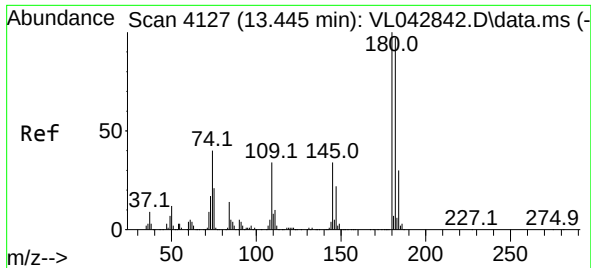
Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Tgt Ion:142 Resp: 145644

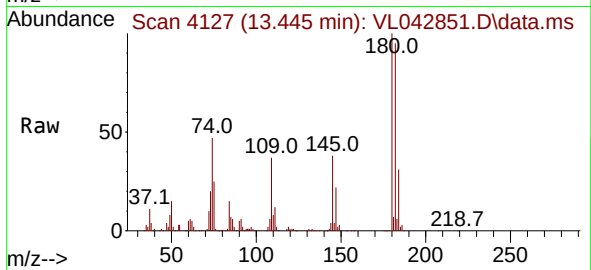
Ion	Ratio	Lower	Upper
142	100		
141	84.8	67.0	100.6
115	41.7	30.9	46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 8.824 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

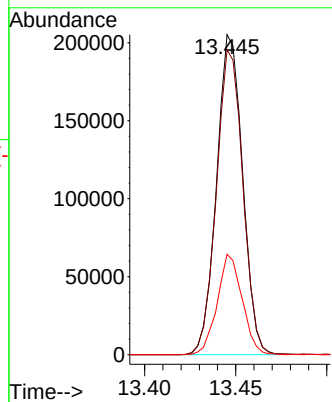
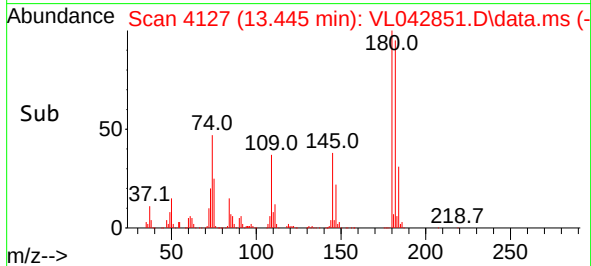
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABS01



Tgt Ion:180 Resp: 204023
 Ion Ratio Lower Upper
 180 100
 182 96.8 76.9 115.3
 184 30.0 24.5 36.7

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABSD01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABSD01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042794.D	1		07/31/25 13:55	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-45-6	Chlorodifluoromethane	10.1	35.7		0.42	1.77	ug/m3
75-71-8	Dichlorodifluoromethane	9.70	48.0		0.54	2.47	ug/m3
64-17-5	Ethanol	8.30	15.6		0.60	0.94	ug/m3
74-87-3	Chloromethane	9.20	19.0		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	8.40	21.5		0.080	0.080	ug/m3
141-78-6	Ethyl Acetate	10.3	40.9		0.48	1.98	ug/m3
74-83-9	Bromomethane	9.10	35.3		0.31	1.94	ug/m3
75-00-3	Chloroethane	8.80	23.2		0.40	1.32	ug/m3
109-99-9	Tetrahydrofuran	11.4	33.6		0.24	1.47	ug/m3
75-69-4	Trichlorofluoromethane	9.00	50.6		0.96	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	9.40	72.0		1.07	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.30	65.0		1.05	3.49	ug/m3
593-60-2	Bromoethene	9.00	39.4		0.87	2.19	ug/m3
115-07-1	Propene	7.50	12.9		0.14	0.86	ug/m3
75-65-0	tert-Butyl alcohol	8.80	26.7		0.49	1.52	ug/m3
142-82-5	Heptane	10.6	43.4		0.70	2.05	ug/m3
67-63-0	Isopropyl Alcohol	8.50	20.9		0.57	1.23	ug/m3
75-35-4	1,1-Dichloroethene	8.90	35.3		0.59	1.98	ug/m3
67-64-1	Acetone	7.40	17.6		0.43	1.19	ug/m3
75-15-0	Carbon Disulfide	10.0	31.1		0.25	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	9.00	32.5		0.83	1.80	ug/m3
75-09-2	Methylene Chloride	8.50	29.5		0.80	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.20	36.5		0.48	1.98	ug/m3
108-05-4	Vinyl Acetate	11.1	40.0		0.94	1.80	ug/m3
75-34-3	1,1-Dichloroethane	9.20	37.2		0.53	2.02	ug/m3
110-82-7	Cyclohexane	9.70	33.4		0.76	1.72	ug/m3
78-93-3	2-Butanone	10.7	31.6		0.18	1.47	ug/m3
56-23-5	Carbon Tetrachloride	11.0	69.2		0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.60	38.1		0.40	1.98	ug/m3
67-66-3	Chloroform	10.2	49.8		0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.60	52.4		0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	11.3	52.8		0.65	2.34	ug/m3
71-43-2	Benzene	10.7	34.2		0.26	1.60	ug/m3
107-06-2	1,2-Dichloroethane	10.8	43.7		0.36	2.02	ug/m3
79-01-6	Trichloroethene	10.0	53.7		0.11	0.16	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABSD01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABSD01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042794.D	1		07/31/25 13:55	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
78-87-5	1,2-Dichloropropane	10.7	49.5		0.60	2.31	ug/m3
75-27-4	Bromodichloromethane	11.3	75.7		0.40	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	11.5	47.1		0.41	2.05	ug/m3
108-88-3	Toluene	11.1	41.8		0.60	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	11.0	49.9		0.68	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	11.2	50.9		0.50	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10.9	59.5		0.44	2.73	ug/m3
591-78-6	2-Hexanone	12.2	49.9		0.45	2.04	ug/m3
124-48-1	Dibromochloromethane	11.5	98.0		0.77	4.26	ug/m3
106-93-4	1,2-Dibromoethane	11.2	86.1		0.69	0.77	ug/m3
127-18-4	Tetrachloroethene	9.50	64.4		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	10.5	48.4		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	11.2	48.6		0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	23.3	101		1.78	4.34	ug/m3
1330-20-7	Total Xylenes	34.9	152		2.69	6.52	ug/m3
95-47-6	o-Xylene	11.6	50.4		0.91	2.17	ug/m3
100-42-5	Styrene	11.8	50.2		0.68	2.13	ug/m3
75-25-2	Bromoform	11.8	122		0.52	5.17	ug/m3
98-82-8	Isopropylbenzene	11.3	55.5		0.79	2.46	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	10.3	70.7		0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	11.3	58.5		0.88	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	12.1	59.5		0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	12.2	60.0		0.88	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	11.2	67.3		0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	11.3	67.9		0.78	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	11.0	66.1		0.78	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	10.8	80.2		1.56	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	9.90	106		1.39	5.33	ug/m3
106-99-0	1,3-Butadiene	8.90	19.7		0.11	1.11	ug/m3
91-20-3	Naphthalene	10.8	56.6		0.050	0.52	ug/m3
622-96-8	4-Ethyltoluene	11.9	58.5		1.03	2.46	ug/m3
110-54-3	Hexane	10.1	35.6		0.56	1.76	ug/m3
107-05-1	Allyl Chloride	9.30	29.1		0.34	1.57	ug/m3
123-91-1	1,4-Dioxane	9.90	35.7		0.79	1.80	ug/m3
100-44-7	Benzyl Chloride	13.6	70.4		0.47	2.59	ug/m3
80-62-6	Methyl Methacrylate	11.3	46.3		0.57	2.05	ug/m3

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL0731ABSD01	SDG No.:	Q2727
Lab Sample ID:	VL0731ABSD01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042794.D	1		07/31/25 13:55	VL073125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	143000		2.79			
540-36-3	1,4-Difluorobenzene	385000		3.965			
3114-55-4	Chlorobenzene-d5	348000		8.888			

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\VL073125\
 Data File : VL042794.D
 Acq On : 31 Jul 2025 13:55
 Operator : SY/MD
 Sample : VL0731ABSD01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

Quant Time: Aug 01 01:15:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 1 2025

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	143361	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	385270	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	347681	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 285966 10.386 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	183911	9.703	ppbv	98
3) Chlorodifluoromethane	1.476	51	250299	10.137	ppbv	99
4) Chloromethane	1.534	50	70831	9.237	ppbv	97
5) Vinyl Chloride	1.580	62	63417	8.370	ppbv	98
6) Bromomethane	1.670	94	26564	9.069	ppbv	92
7) Chloroethane	1.706	64	25813	8.818	ppbv	96
8) Dichlorotetrafluoroethane	1.554	85	145635	9.343	ppbv	99
9) Propene	1.482	41	67742	7.549	ppbv	90
10) Heptane	4.988	43	256581	10.604	ppbv	98
11) Trichlorofluoromethane	1.877	101	175951	9.005	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	139531	9.398	ppbv	99
13) Ethanol	1.722	45	6169	8.289	ppbv	96
14) Bromoethene	1.783	108	47516	9.039	ppbv	97
15) Acetone	1.835	43	145544	7.352	ppbv	99
16) 1,3-Butadiene	1.609	39	75425	8.933	ppbv	100
17) tert-Butyl alcohol	2.042	59	157530	8.823	ppbv	99
18) 1,1-Dichloroethene	2.036	96	59735	8.904	ppbv	92
19) Isopropyl Alcohol	1.887	45	89890	8.545	ppbv	94
20) Methylene Chloride	2.062	84	53184	8.525	ppbv	92
21) Allyl Chloride	2.097	41	113975	9.342	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	66660	9.237	ppbv	90
23) Vinyl Acetate	2.463	43	267217	11.134	ppbv	99
24) 1,1-Dichloroethane	2.411	63	136610	9.222	ppbv	99
25) Ethyl Acetate	2.839	43	450028	10.270	ppbv	99
26) Hexane	2.829	57	193724	10.078	ppbv	98
27) Carbon Disulfide	2.152	76	164945	10.023	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	81968	9.026	ppbv	99
29) Chloroform	2.852	83	302251	10.176	ppbv	100
30) Cyclohexane	3.865	84	158206	9.705	ppbv	93
31) cis-1,2-Dichloroethene	2.722	61	189601	9.599	ppbv	95
32) 1,1,1-Trichloroethane	3.373	97	297175	9.605	ppbv	98
34) 2-Butanone	2.560	43	293015	10.737	ppbv	100
35) Carbon Tetrachloride	3.768	117	315193	11.014	ppbv	97
36) Benzene	3.661	78	389839	10.677	ppbv	99
37) 1,2-Dichloroethane	3.224	62	236593	10.756	ppbv	100
38) Trichloroethene	4.557	130	174966	9.974	ppbv	97
39) 1,2-Dichloropropane	4.318	63	144769	10.741	ppbv	99
40) 1,4-Dioxane	4.590	88	61985	9.866	ppbv #	97
41) Tetrahydrofuran	3.059	42	157948	11.374	ppbv	97
42) Bromodichloromethane	4.496	83	324724	11.336	ppbv	98
43) Methyl Methacrylate	4.887	69	147145	11.338	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	673176	11.311	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	159751	10.976	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042794.D
 Acq On : 31 Jul 2025 13:55
 Operator : SY/MD
 Sample : VL0731ABSD01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

Quant Time: Aug 01 01:15:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 01 11:13:20 2025

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

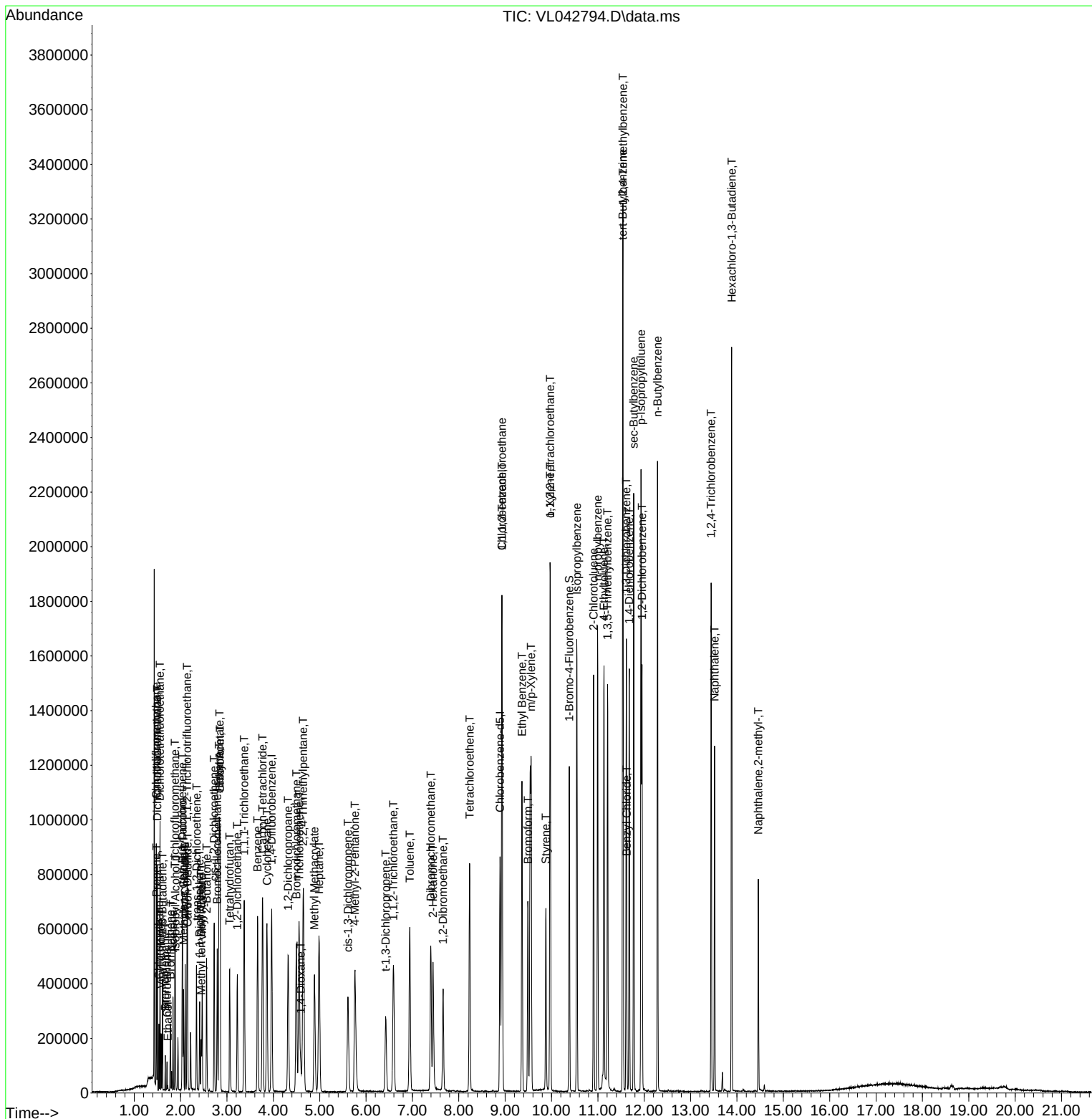
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	205816	11.160	ppbv	97
47) 1,1,2-Trichloroethane	6.590	97	156216	10.873	ppbv	98
48) Dibromochloromethane	7.396	129	262522	11.510	ppbv	99
49) Bromoform	9.493	173	234893	11.811	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	403132	11.467	ppbv	98
51) 2-Hexanone	7.441	43	322822	12.152	ppbv #	98
52) Tetrachloroethene	8.234	164	144051	9.518	ppbv	94
53) Toluene	6.943	91	436601	11.135	ppbv	99
54) 1,2-Dibromoethane	7.661	107	226779	11.172	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.930	131	199484	11.035	ppbv	99
57) Chlorobenzene	8.930	112	353946	10.519	ppbv	97
58) Ethyl Benzene	9.364	91	615615	11.212	ppbv	100
59) m/p-Xylene	9.558	91	1021929m	23.289	ppbv	
60) o-Xylene	9.969	91	509306	11.615	ppbv	99
61) Styrene	9.878	104	217878	11.813	ppbv	99
62) Isopropylbenzene	10.545	105	731077	11.304	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	290577	10.323	ppbv	99
64) n-propylbenzene	10.995	120	196210	11.637	ppbv	100
65) tert-Butylbenzene	11.535	119	656497	11.427	ppbv	99
66) Benzyl Chloride	11.623	91	64301	13.634	ppbv	99
67) sec-Butylbenzene	11.772	105	929357	11.374	ppbv	100
69) p-Isopropyltoluene	11.930	119	783925	11.766	ppbv	100
70) n-Butylbenzene	12.286	91	802758	12.474	ppbv	99
71) 2-Chlorotoluene	10.908	91	560672	11.306	ppbv	99
72) 4-Ethyltoluene	11.131	105	622768	11.893	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	522269	12.114	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	576097	12.248	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	370097	11.224	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	365448	11.326	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	357874	11.043	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	289316	9.863	ppbv	99
79) Naphthalene	13.516	128	552592	10.791	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	210490	8.445	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	310917	10.803	ppbv	99

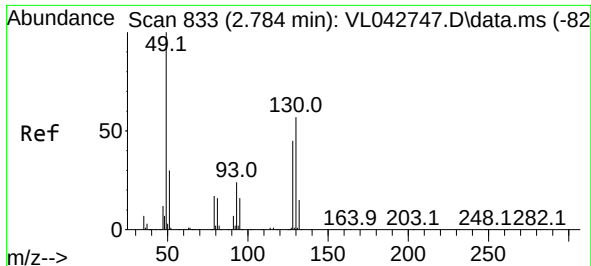
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integrations

Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

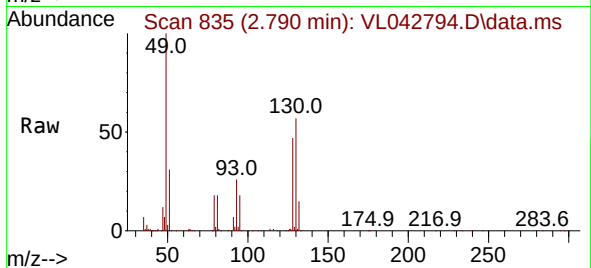
Quant Time: Aug 01 01:15:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

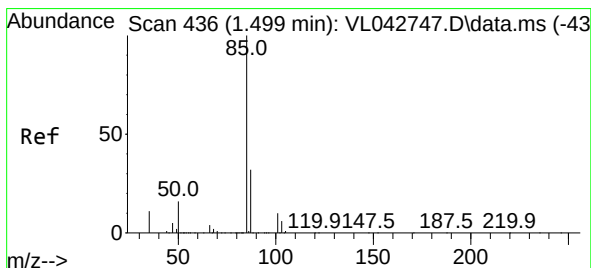
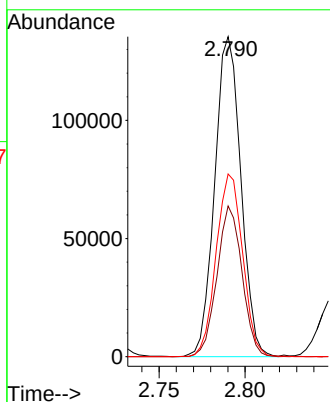
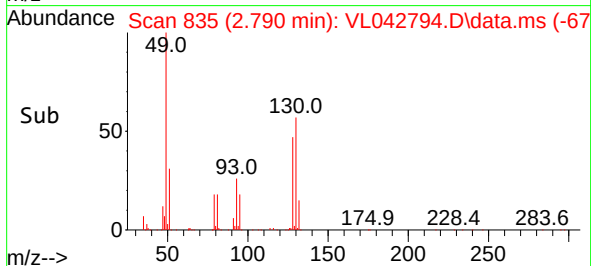
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



Tgt Ion: 49 Resp: 14336
Ion Ratio Lower Upper
49 100
128 45.1 23.6 71.0
130 57.8 30.3 90.8

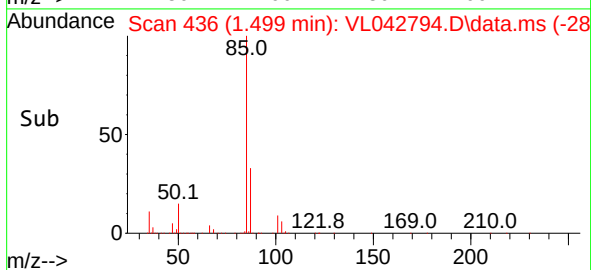
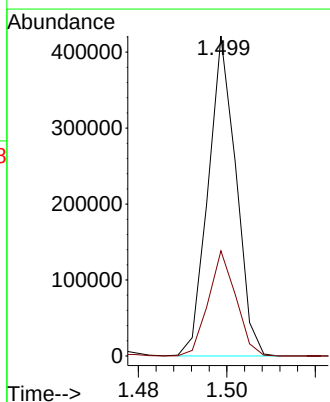
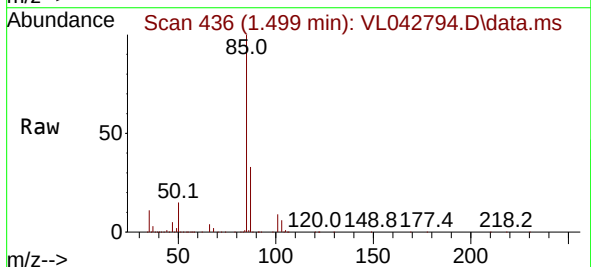
Manual Integrations
APPROVED

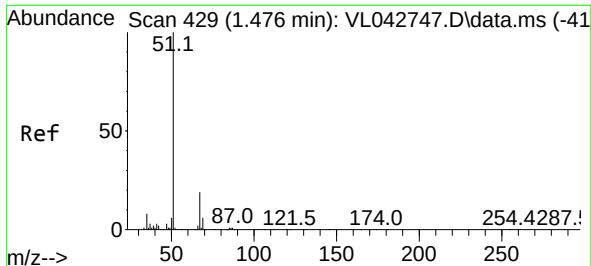
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#2
Dichlorodifluoromethane
Concen: 9.703 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

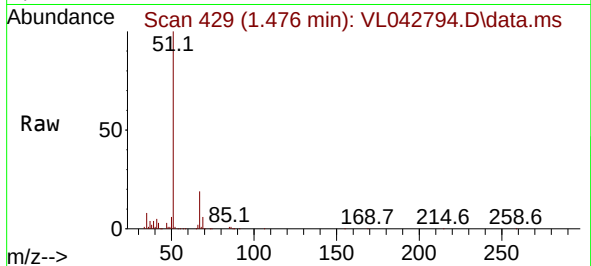
Tgt Ion: 85 Resp: 183911
Ion Ratio Lower Upper
85 100
87 32.8 25.4 38.2





#3
Chlorodifluoromethane
Concen: 10.137 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

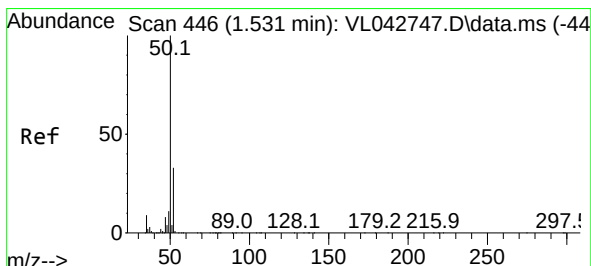
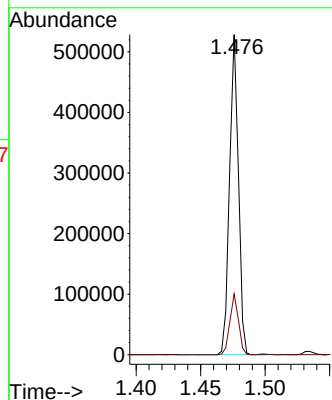
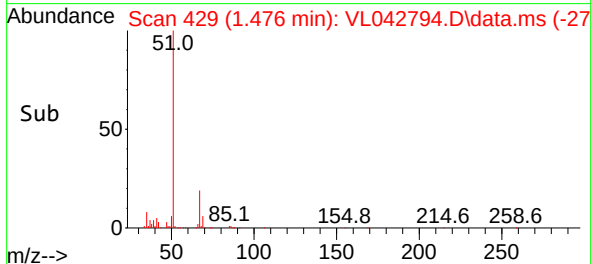
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



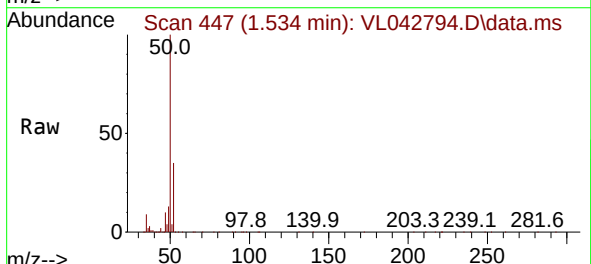
Tgt Ion: 51 Resp: 250299
Ion Ratio Lower Upper
51 100
67 18.5 15.0 22.6

Manual Integrations
APPROVED

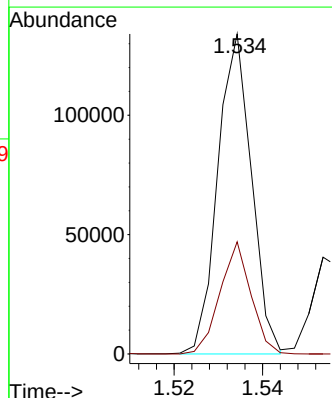
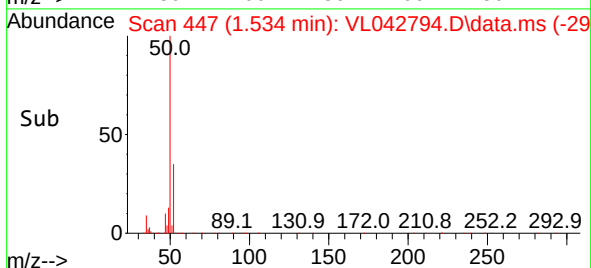
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

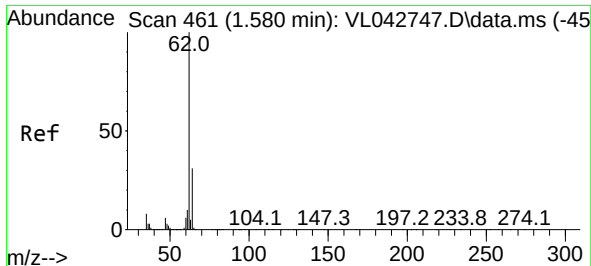


#4
Chloromethane
Concen: 9.237 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



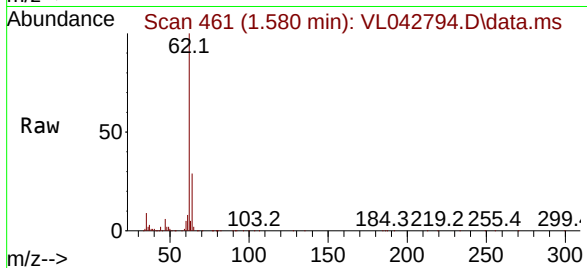
Tgt Ion: 50 Resp: 70831
Ion Ratio Lower Upper
50 100
52 35.1 26.6 40.0





#5
 Vinyl Chloride
 Concen: 8.370 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

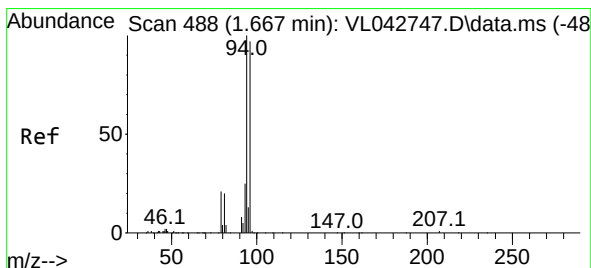
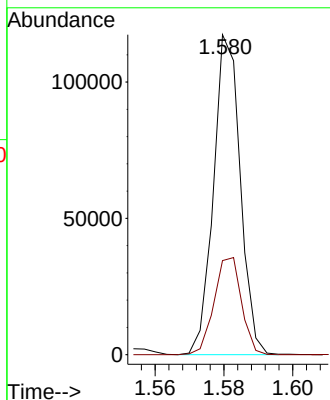
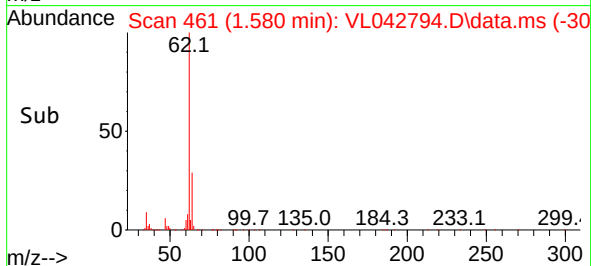
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01



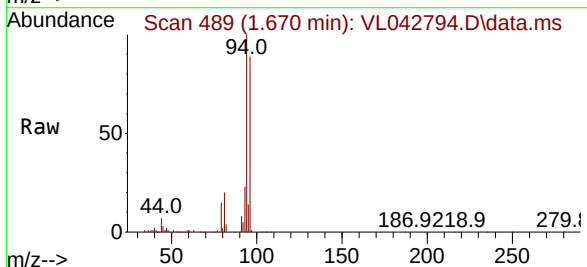
Tgt Ion: 62 Resp: 6341
 Ion Ratio Lower Upper
 62 100
 64 29.4 24.5 36.7

Manual Integrations
 APPROVED

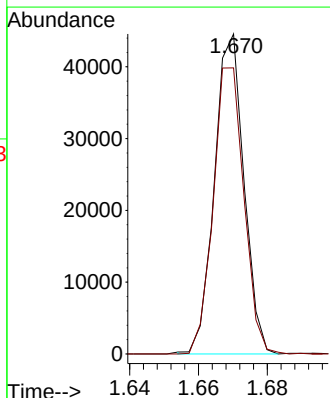
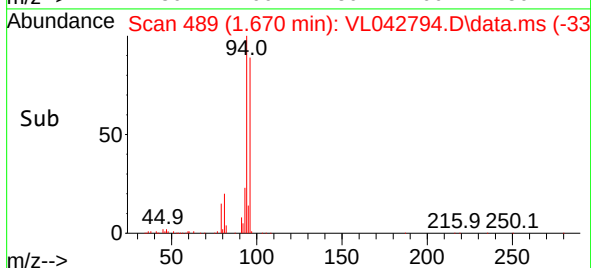
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

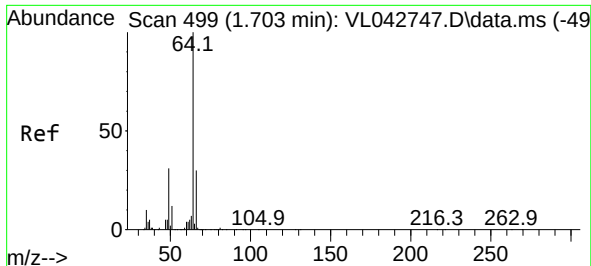


#6
 Bromomethane
 Concen: 9.069 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55



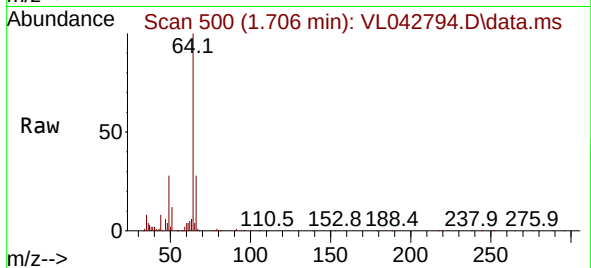
Tgt Ion: 94 Resp: 26564
 Ion Ratio Lower Upper
 94 100
 96 89.4 77.6 116.4





#7
Chloroethane
Concen: 8.818 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

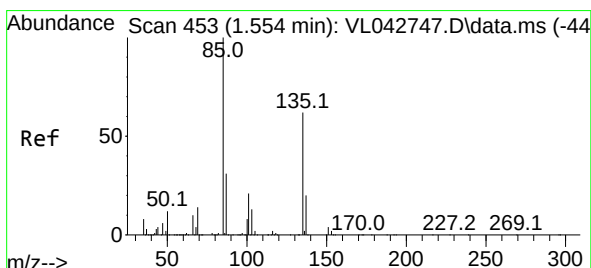
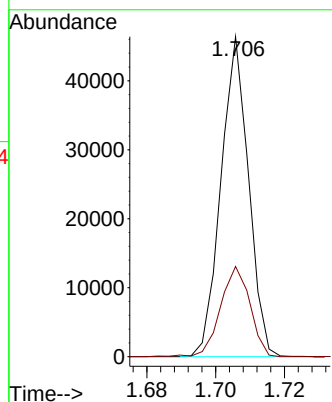
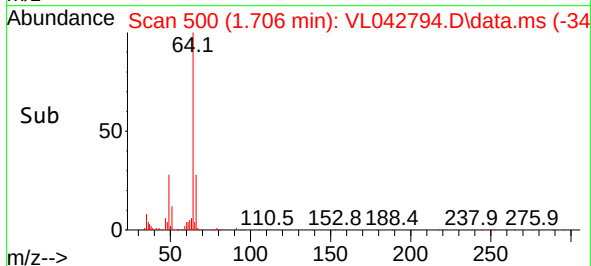
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



Tgt Ion: 64 Resp: 2581
Ion Ratio Lower Upper
64 100
66 28.2 24.1 36.1

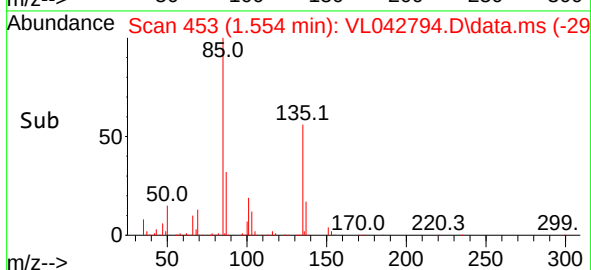
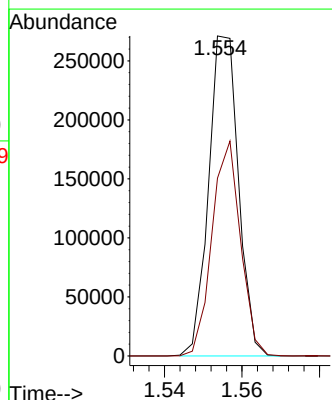
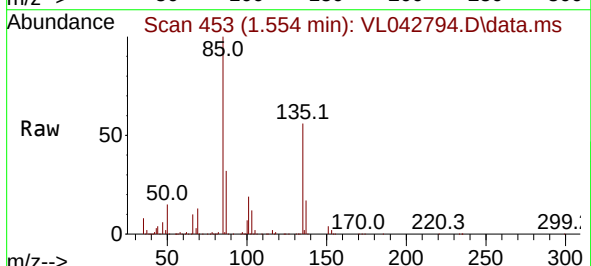
Manual Integrations
APPROVED

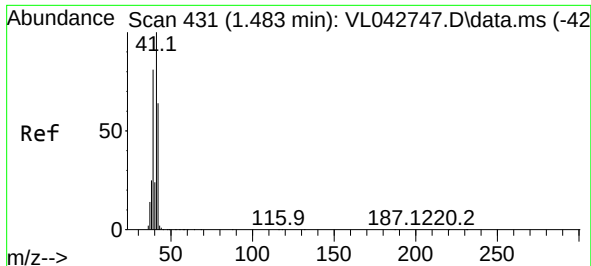
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#8
Dichlorotetrafluoroethane
Concen: 9.343 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

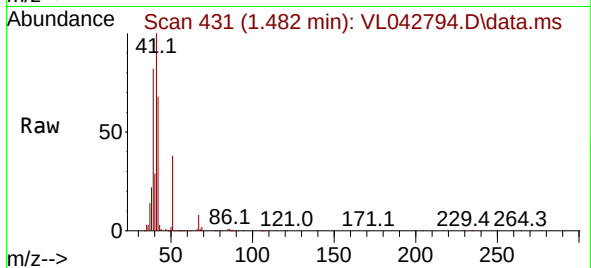
Tgt Ion: 85 Resp: 145635
Ion Ratio Lower Upper
85 100
135 64.1 50.6 76.0





#9
 Propene
 Concen: 7.549 ppbv
 RT: 1.482 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

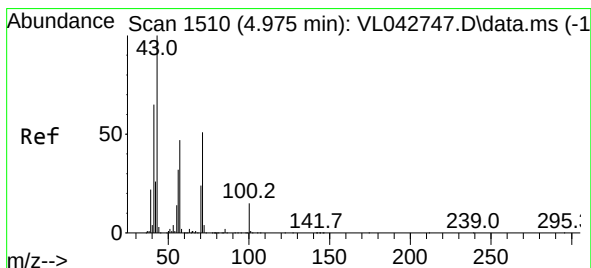
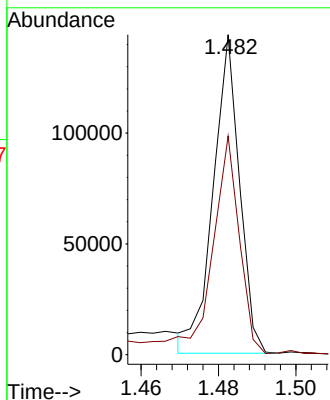
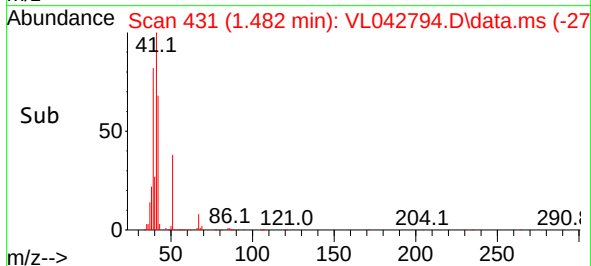
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01



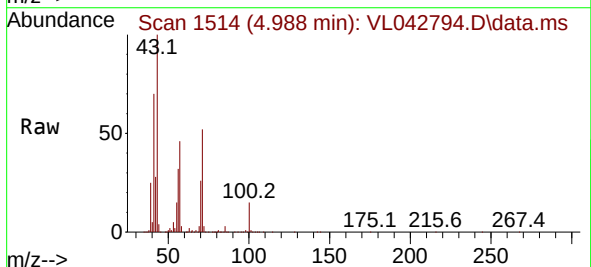
Tgt Ion: 41 Resp: 6774
 Ion Ratio Lower Upper
 41 100
 42 74.8 53.2 79.8

Manual Integrations
 APPROVED

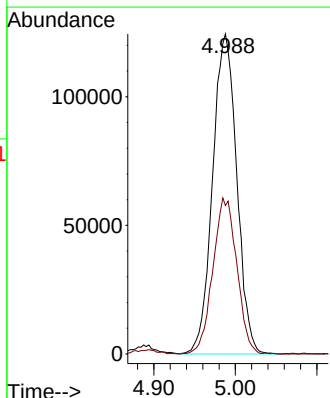
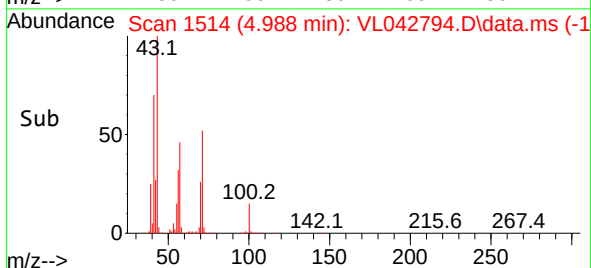
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

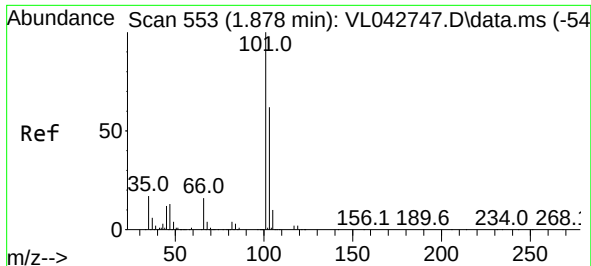


#10
 Heptane
 Concen: 10.604 ppbv
 RT: 4.988 min Scan# 1514
 Delta R.T. 0.013 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55



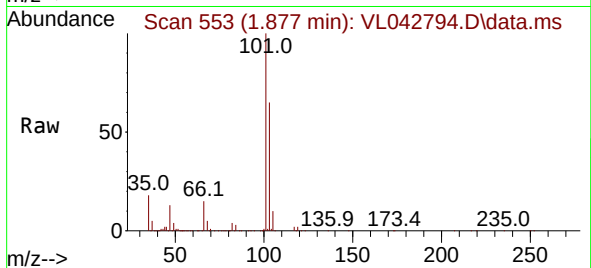
Tgt Ion: 43 Resp: 256581
 Ion Ratio Lower Upper
 43 100
 57 48.4 39.9 59.9





#11
Trichlorofluoromethane
Concen: 9.005 ppbv
RT: 1.877 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

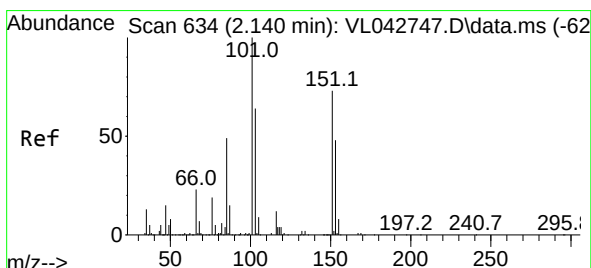
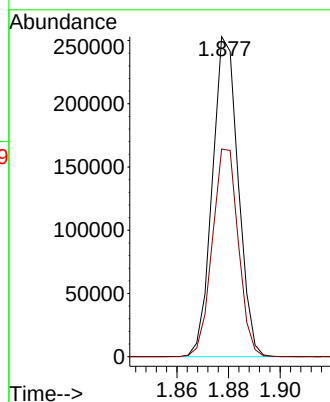
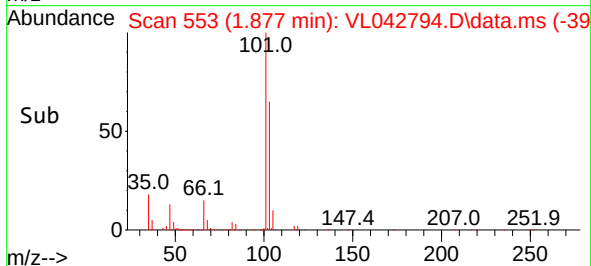
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



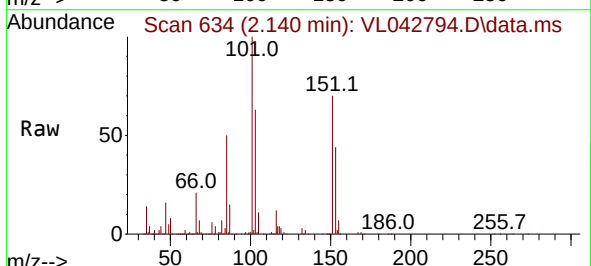
Tgt Ion:101 Resp: 175953
Ion Ratio Lower Upper
101 100
103 64.9 49.6 74.4

Manual Integrations
APPROVED

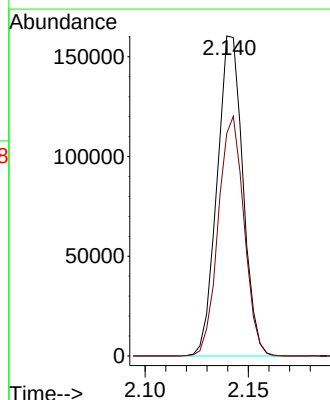
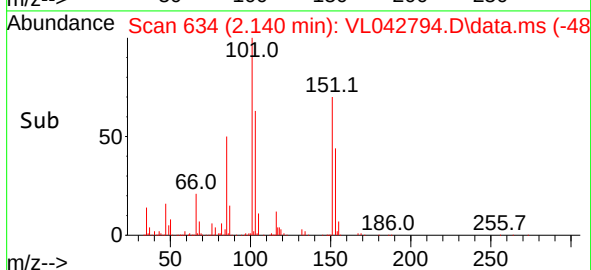
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

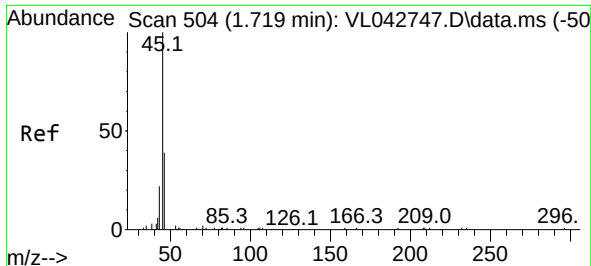


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.398 ppbv
RT: 2.140 min Scan# 634
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



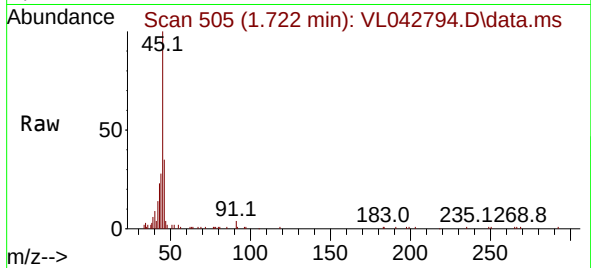
Tgt Ion:101 Resp: 139531
Ion Ratio Lower Upper
101 100
151 74.5 60.5 90.7





#13
Ethanol
Concen: 8.289 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

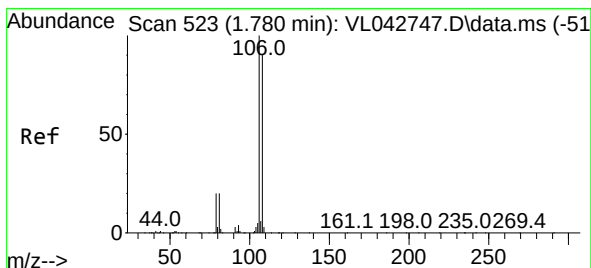
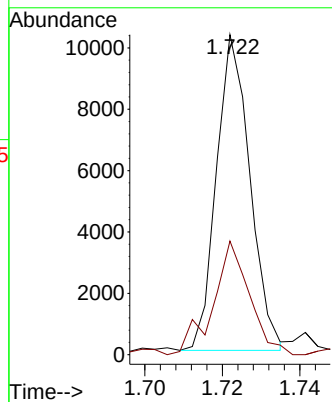
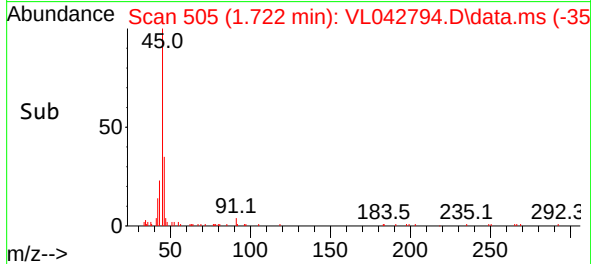
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



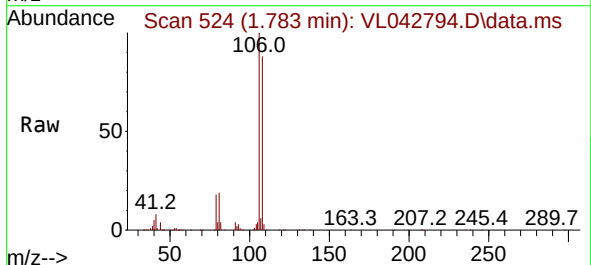
Tgt Ion: 45 Resp: 6169
Ion Ratio Lower Upper
45 100
46 42.1 17.8 71.4

Manual Integrations
APPROVED

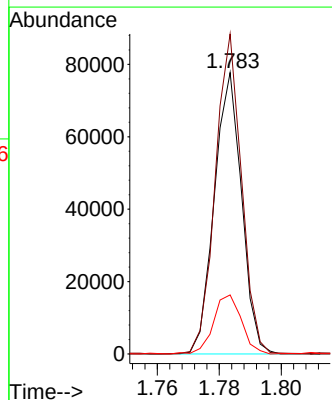
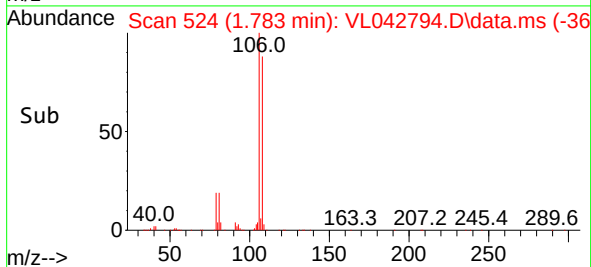
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

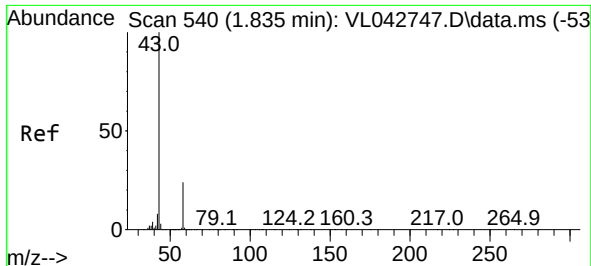


#14
Bromoethene
Concen: 9.039 ppbv
RT: 1.783 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



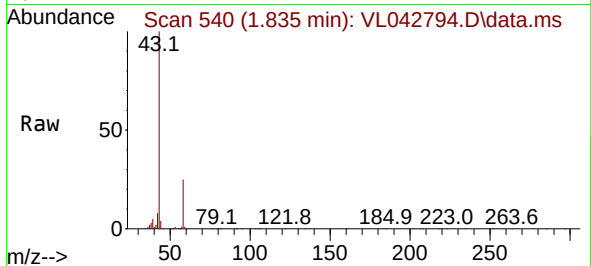
Tgt Ion:108 Resp: 47516
Ion Ratio Lower Upper
108 100
106 109.8 84.7 127.1
79 22.7 17.4 26.2





#15
Acetone
Concen: 7.352 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

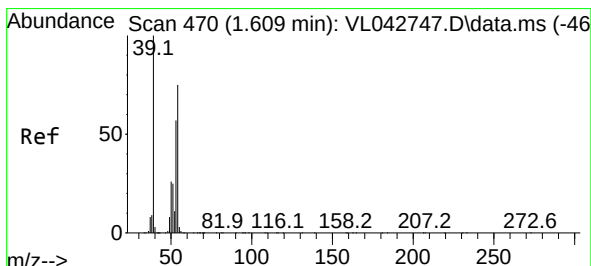
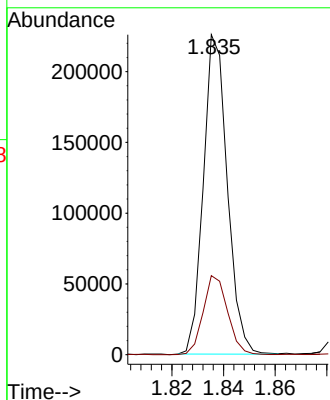
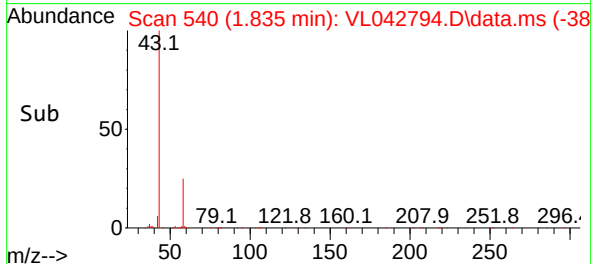
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



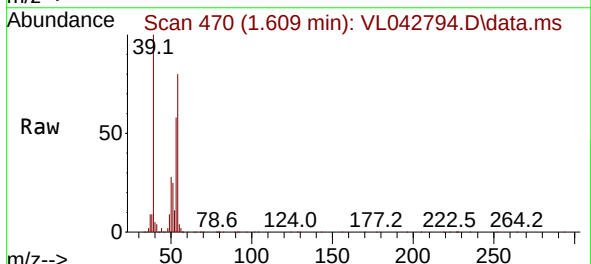
Tgt Ion: 43 Resp: 145544
Ion Ratio Lower Upper
43 100
58 25.4 19.8 29.8

Manual Integrations
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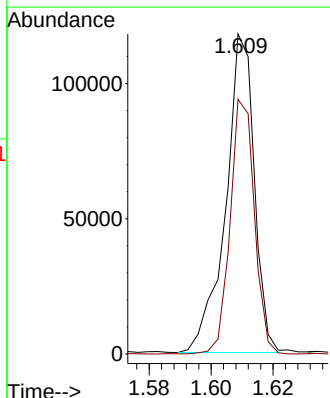
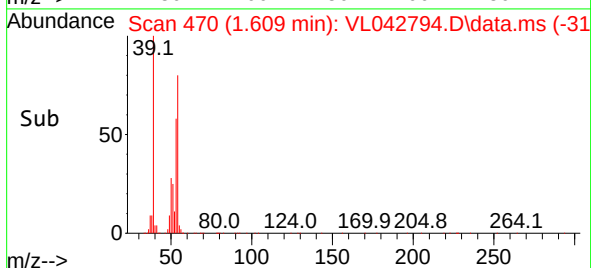
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

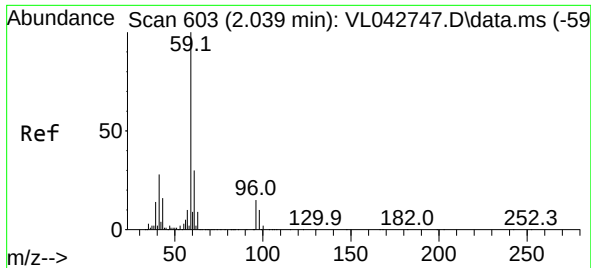


#16
1,3-Butadiene
Concen: 8.933 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



Tgt Ion: 39 Resp: 75425
Ion Ratio Lower Upper
39 100
54 68.1 54.5 81.7





#17

tert-Butyl alcohol

Concen: 8.823 ppbv

RT: 2.042 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

Tgt Ion: 59 Resp: 157530

Ion Ratio Lower Upper

59 100

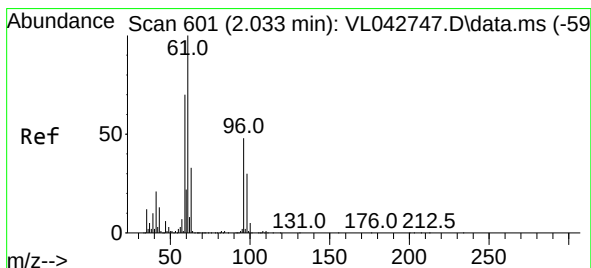
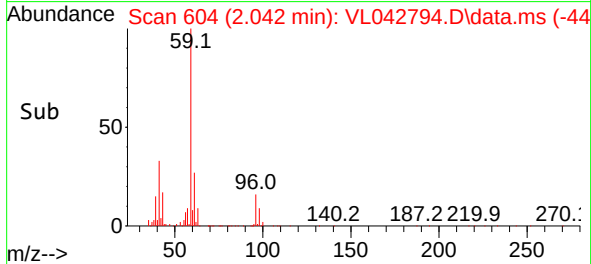
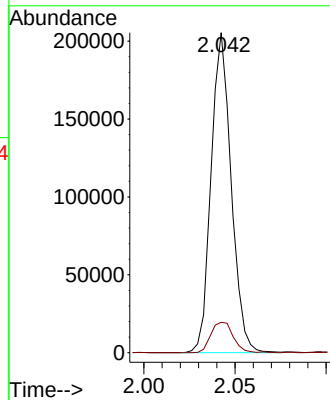
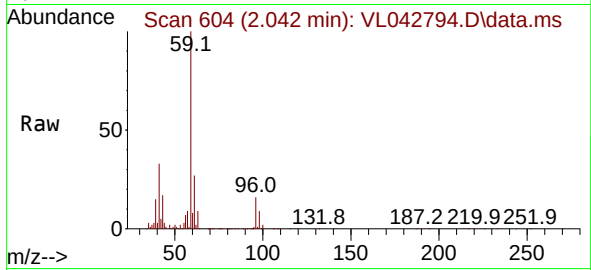
57 10.7 8.3 12.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#18

1,1-Dichloroethene

Concen: 8.904 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

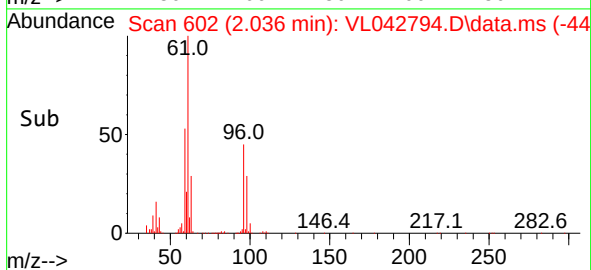
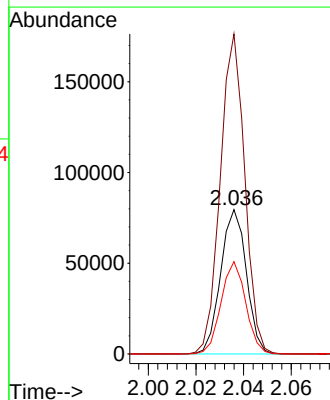
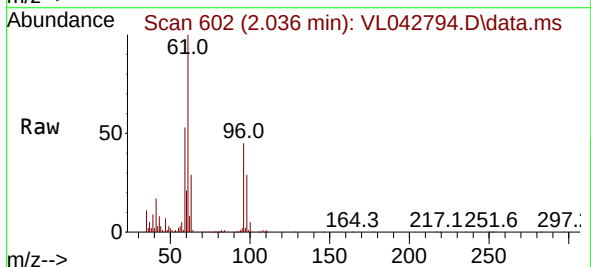
Tgt Ion: 96 Resp: 59735

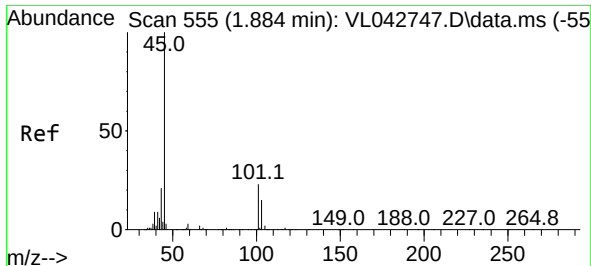
Ion Ratio Lower Upper

96 100

61 221.7 165.8 248.6

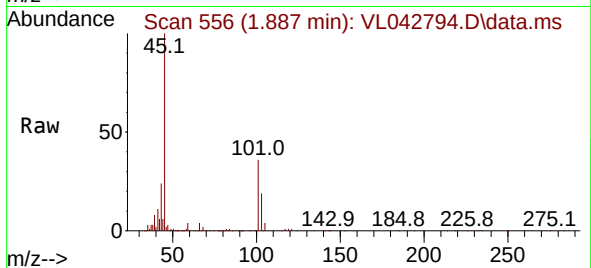
98 64.0 49.9 74.9





#19
Isopropyl Alcohol
Concen: 8.545 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

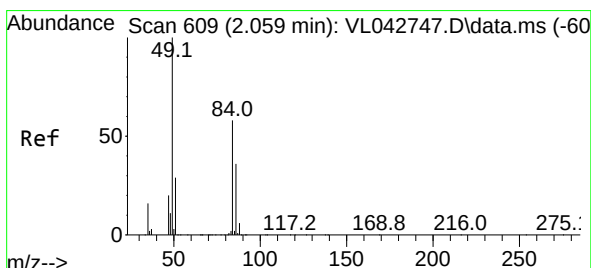
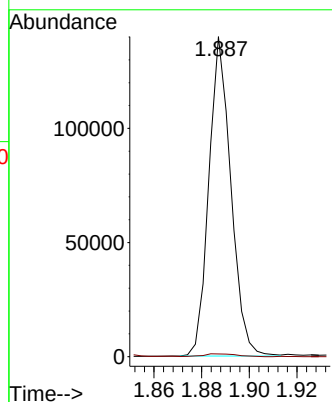
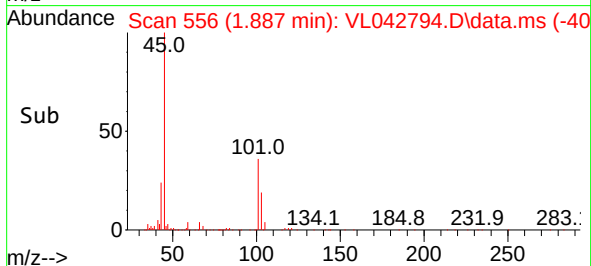
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



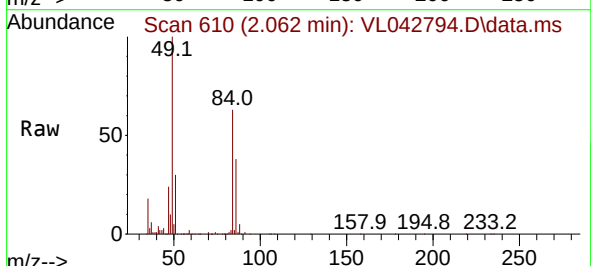
Tgt Ion: 45 Resp: 89890
Ion Ratio Lower Upper
45 100
58 41.1 30.0 45.0

Manual Integrations
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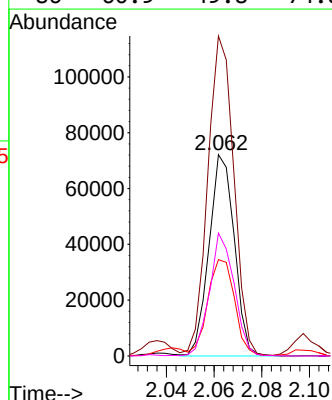
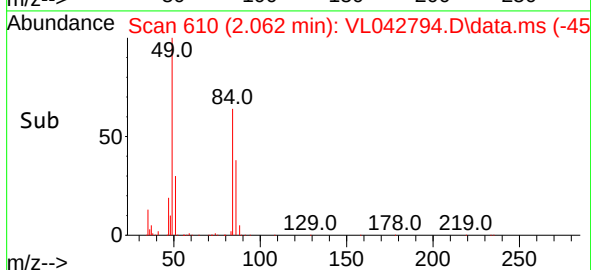
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

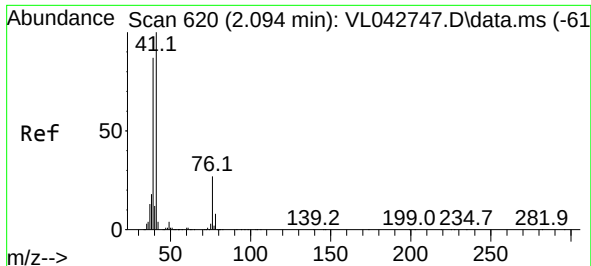


#20
Methylene Chloride
Concen: 8.525 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



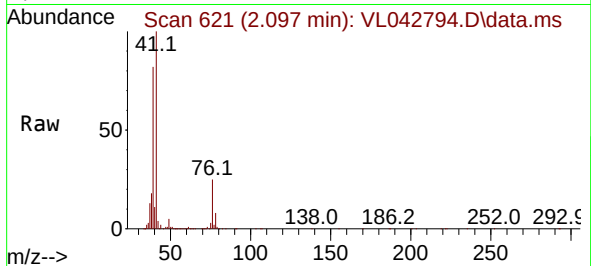
Tgt Ion: 84 Resp: 53184
Ion Ratio Lower Upper
84 100
49 158.0 138.6 208.0
51 47.4 40.6 61.0
86 60.9 49.8 74.8





#21
 Allyl Chloride
 Concen: 9.342 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

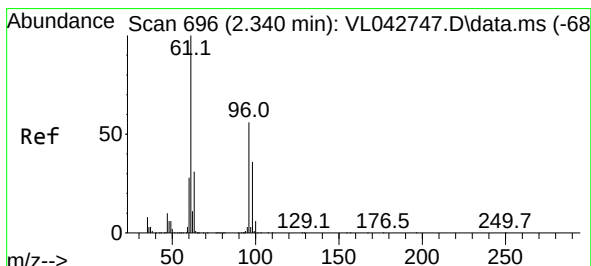
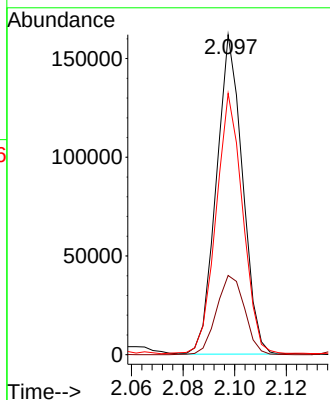
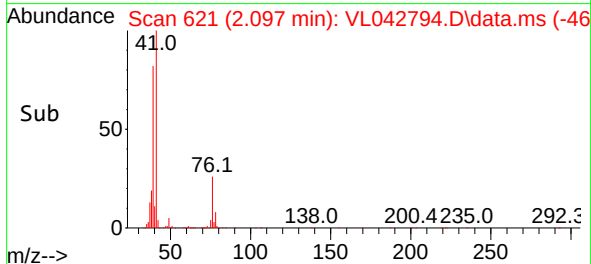
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01



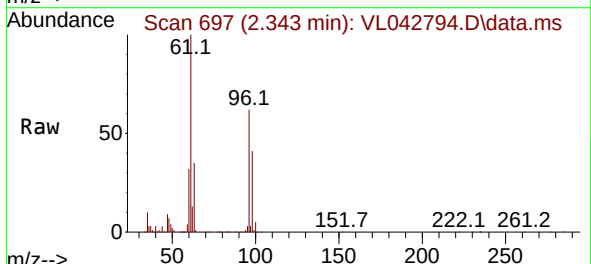
Tgt Ion: 41 Resp: 11397
 Ion Ratio Lower Upper
 41 100
 76 26.6 21.1 31.7
 39 83.0 68.3 102.5

Manual Integrations
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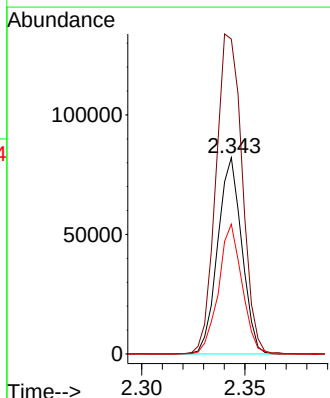
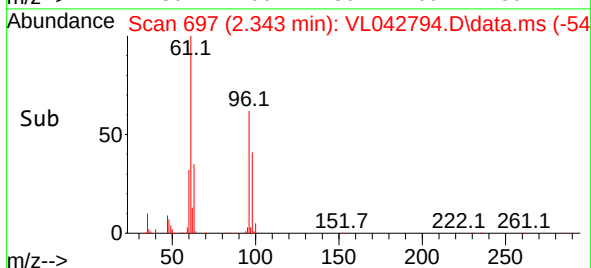
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

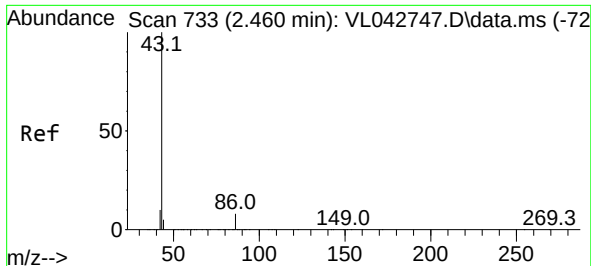


#22
 trans-1,2-Dichloroethene
 Concen: 9.237 ppbv
 RT: 2.343 min Scan# 697
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55



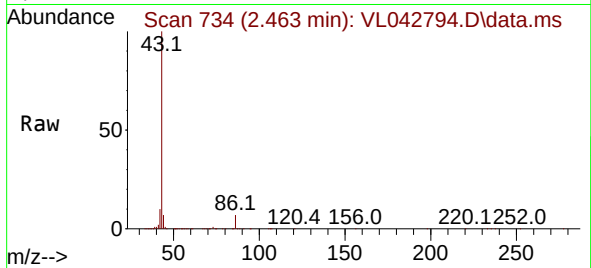
Tgt Ion: 96 Resp: 66660
 Ion Ratio Lower Upper
 96 100
 61 160.3 142.3 213.5
 98 66.1 50.6 76.0





#23
 Vinyl Acetate
 Concen: 11.134 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01

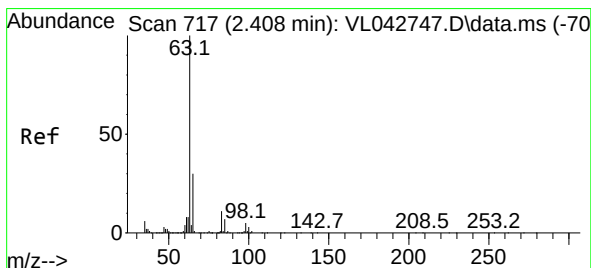
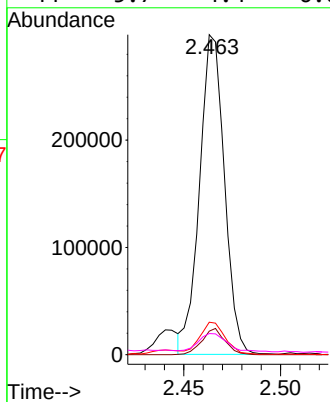
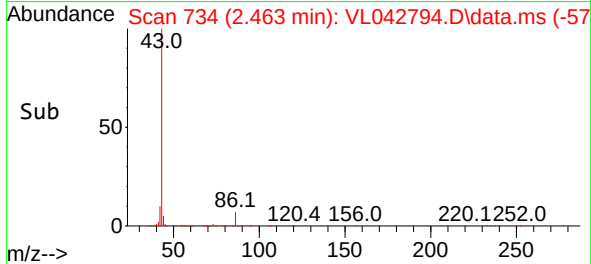


Tgt Ion: 43 Resp: 26721

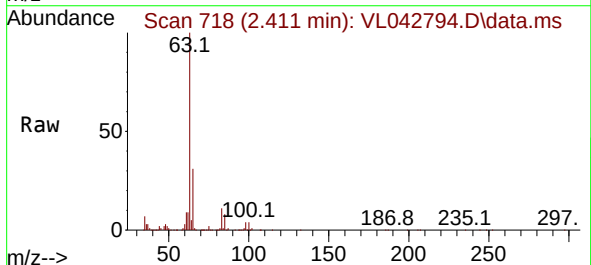
Ion	Ratio	Lower	Upper
43	100		
86	7.3	6.1	9.1
42	10.0	7.8	11.8
44	5.7	4.4	6.6

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

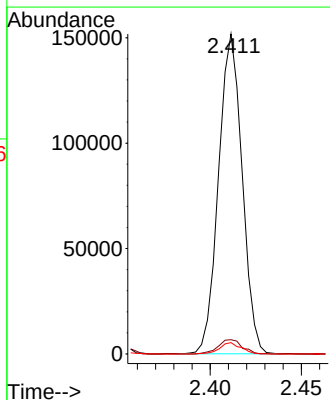
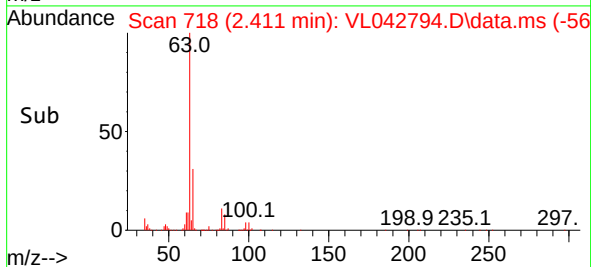


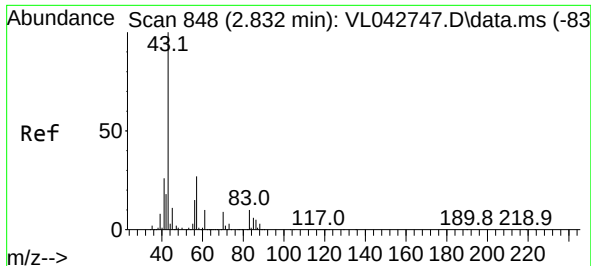
#24
 1,1-Dichloroethane
 Concen: 9.222 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55



Tgt Ion: 63 Resp: 136610

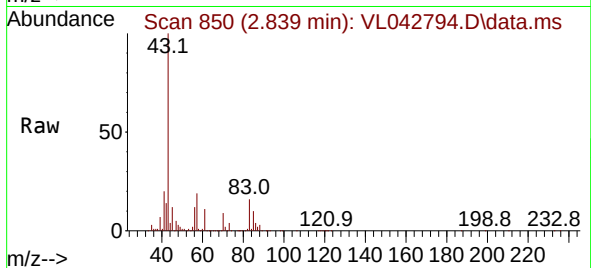
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.5	7.4
100	3.6	1.6	4.8





#25
Ethyl Acetate
Concen: 10.270 ppbv
RT: 2.839 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

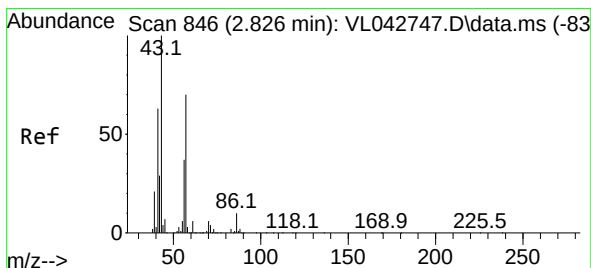
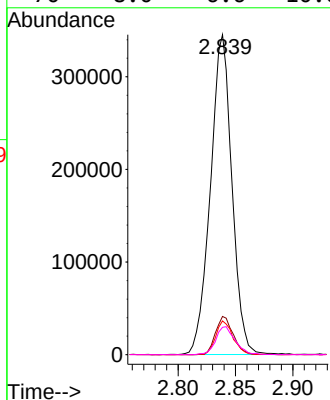
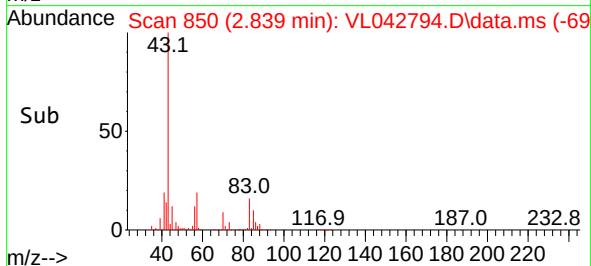
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



Tgt Ion: 43 Resp: 450028
Ion Ratio Lower Upper
43 100
45 9.9 7.8 11.6
61 8.6 6.7 10.1
70 8.0 6.6 10.0

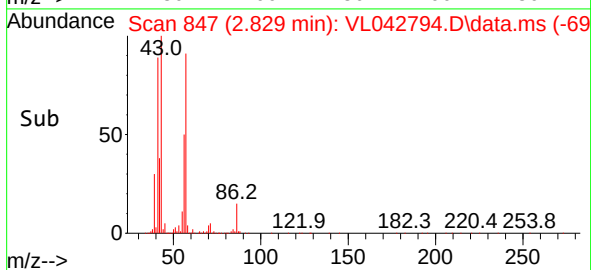
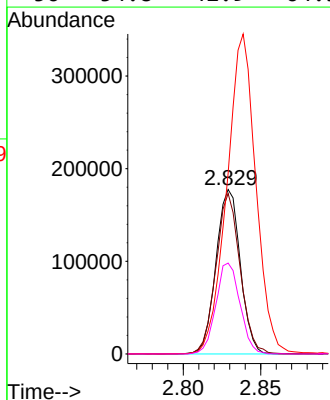
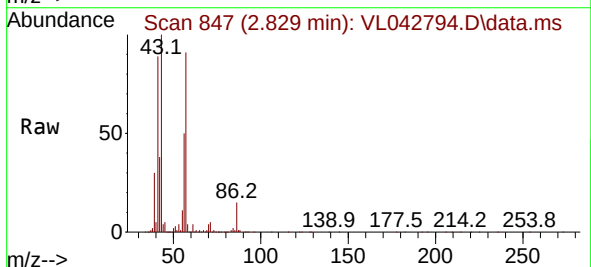
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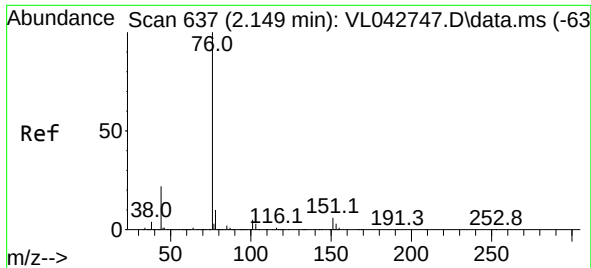
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#26
Hexane
Concen: 10.078 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

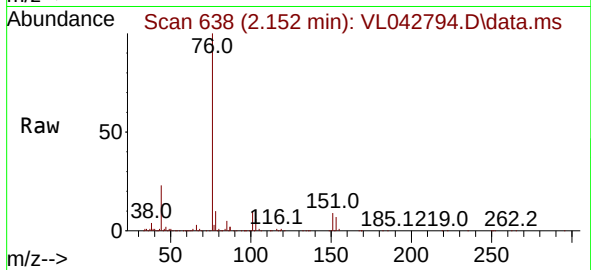
Tgt Ion: 57 Resp: 193724
Ion Ratio Lower Upper
57 100
41 96.9 75.4 113.2
43 233.0 185.0 277.6
56 54.8 42.9 64.3





#27
Carbon Disulfide
Concen: 10.023 ppbv
RT: 2.152 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

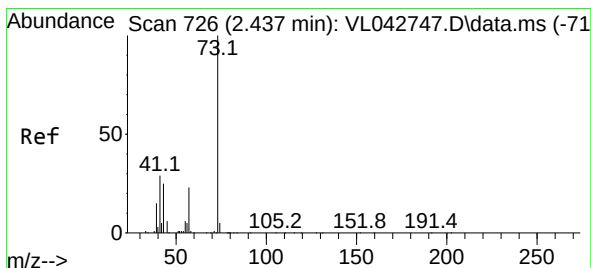
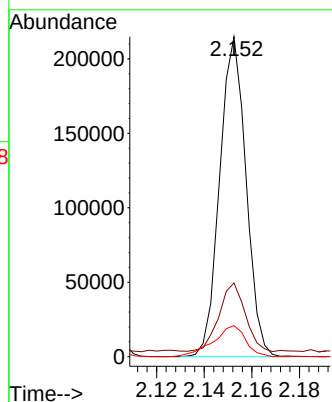
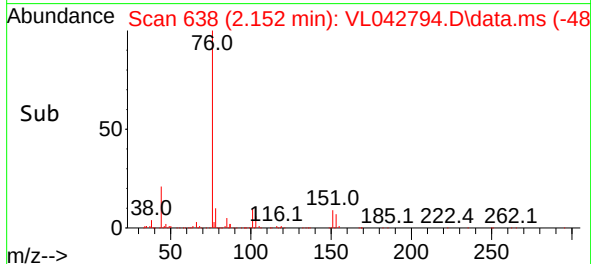
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



Tgt Ion: 76 Resp: 16494
Ion Ratio Lower Upper
76 100
44 26.1 19.3 28.9
78 12.0 9.9 14.9

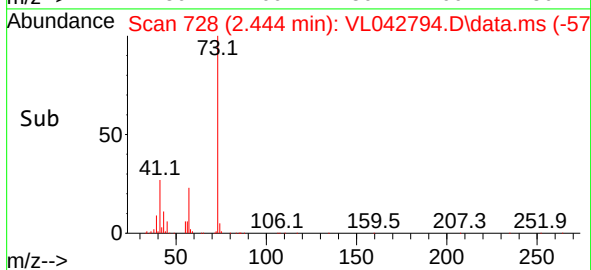
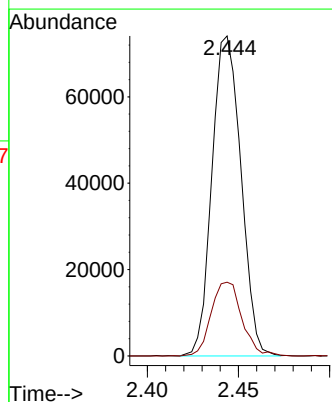
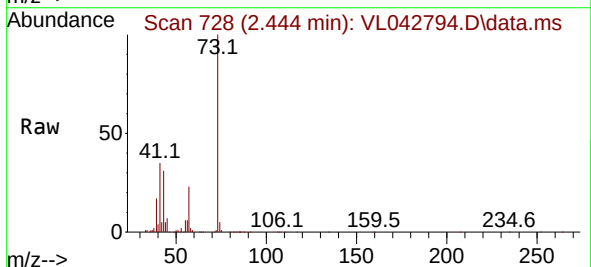
Manual Integrations
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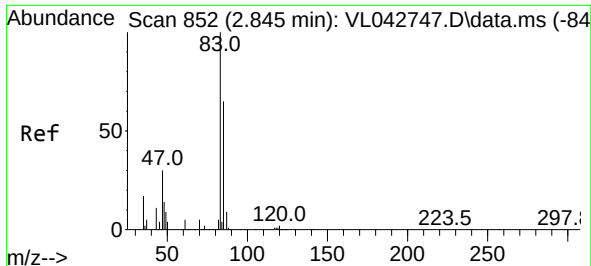
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#28
Methyl tert-Butyl Ether
Concen: 9.026 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 73 Resp: 81968
Ion Ratio Lower Upper
73 100
57 24.4 19.8 29.8





#29

Chloroform

Concen: 10.176 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

Tgt Ion: 83 Resp: 30225

Ion Ratio Lower Upper

83 100

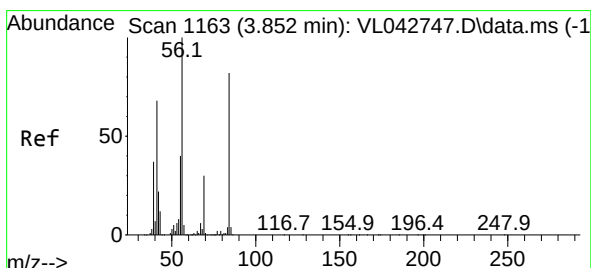
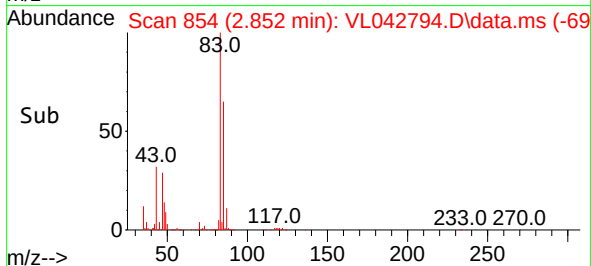
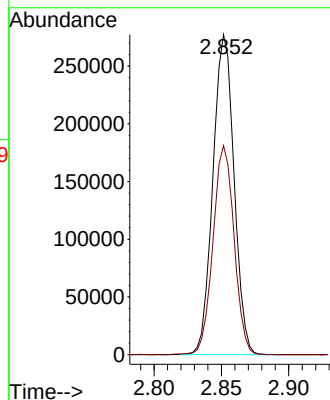
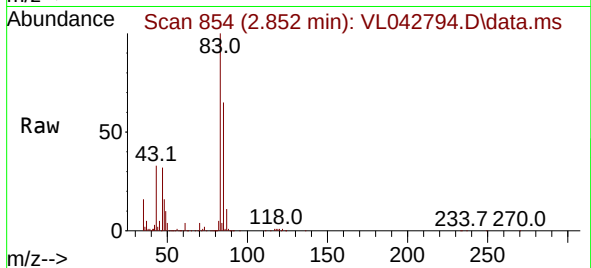
85 65.4 52.2 78.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#30

Cyclohexane

Concen: 9.705 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.013 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

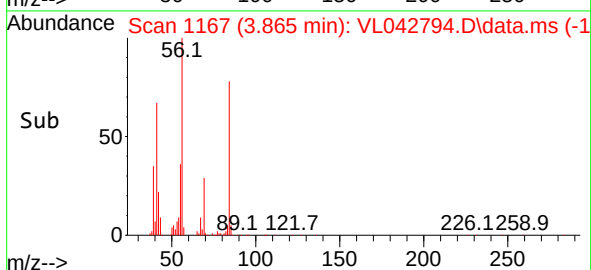
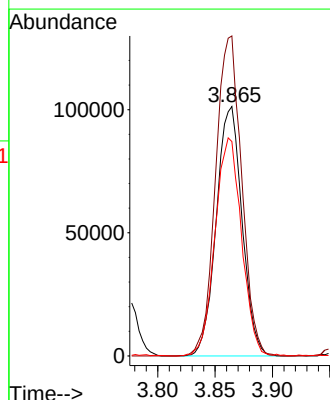
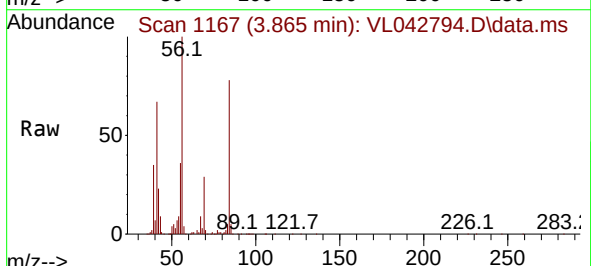
Tgt Ion: 84 Resp: 158206

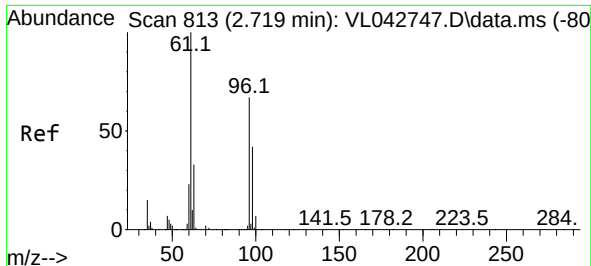
Ion Ratio Lower Upper

84 100

56 129.8 97.5 146.3

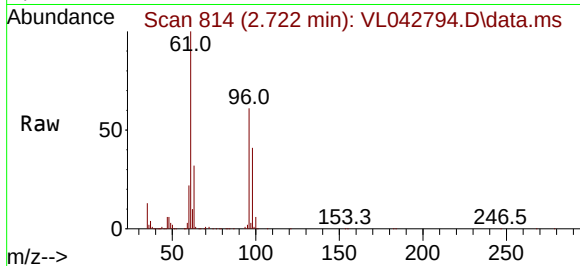
41 90.1 67.2 100.8





#31
 cis-1,2-Dichloroethene
 Concen: 9.599 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

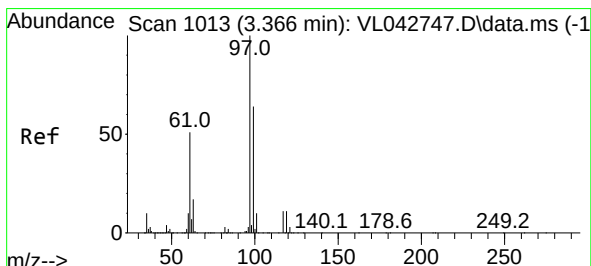
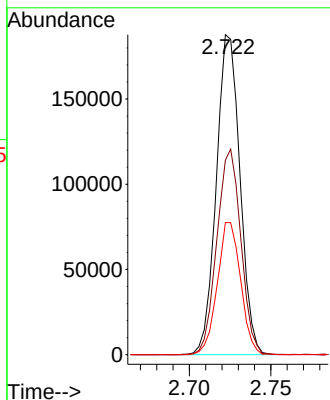
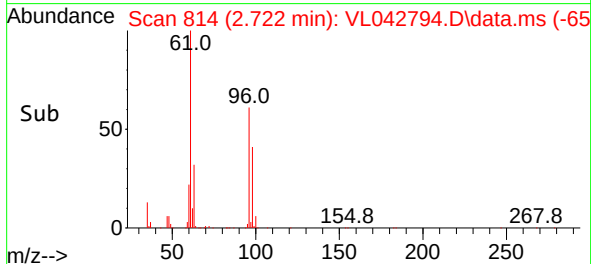
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01



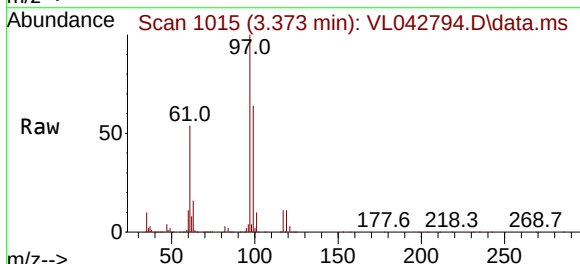
Tgt Ion: 61 Resp: 18960
 Ion Ratio Lower Upper
 61 100
 96 60.8 53.5 80.3
 98 41.3 33.6 50.4

Manual Integrations
 APPROVED

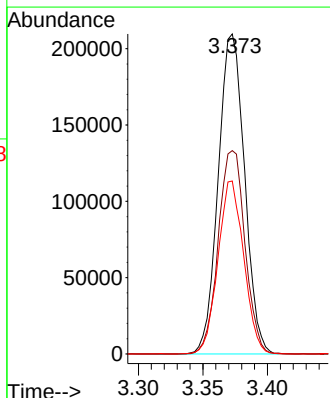
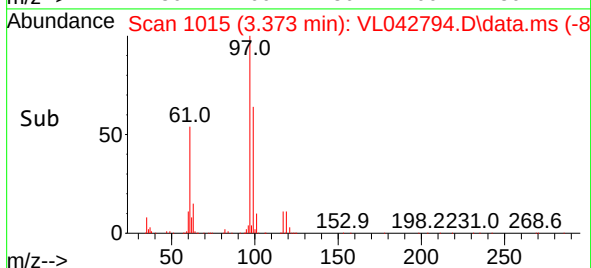
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025

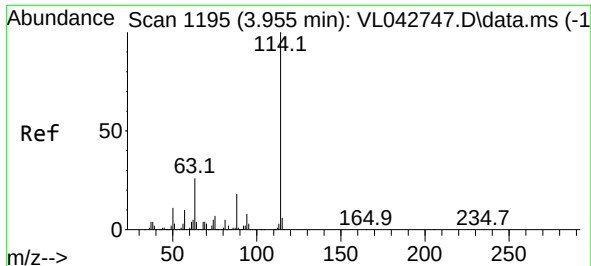


#32
 1,1,1-Trichloroethane
 Concen: 9.605 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.006 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55



Tgt Ion: 97 Resp: 297175
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.0 76.6
 61 53.0 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1195

Delta R.T. 0.010 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

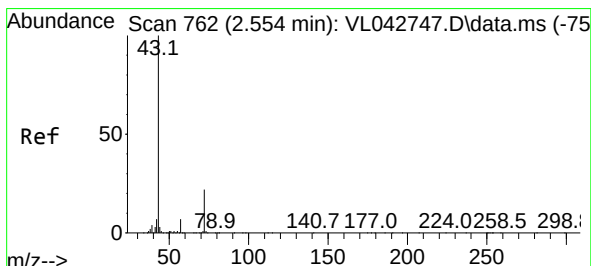
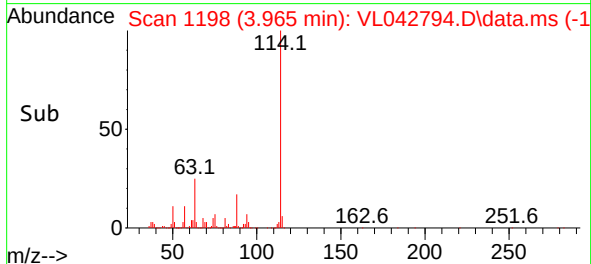
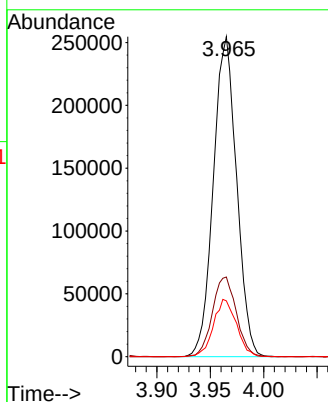
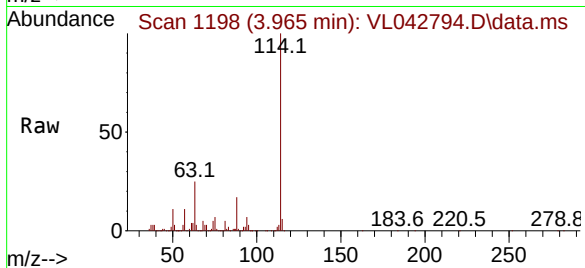
VL0731ABSD01

Tgt Ion:114 Resp: 385270
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.5 30.7
 88 17.8 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#34

2-Butanone

Concen: 10.737 ppbv

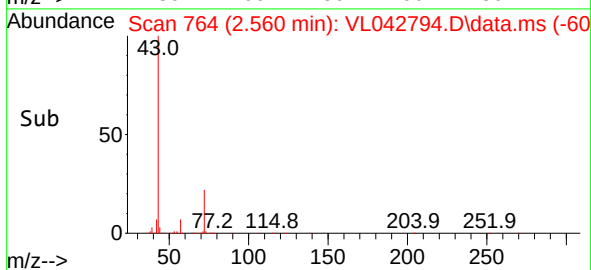
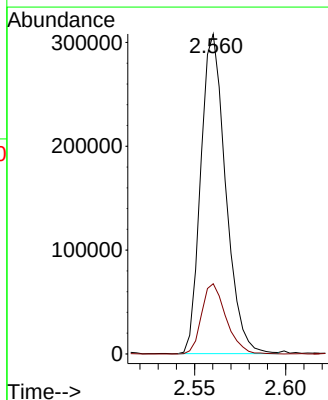
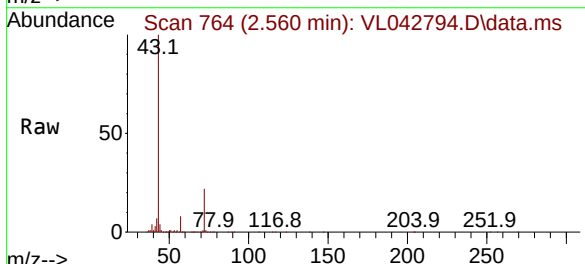
RT: 2.560 min Scan# 764

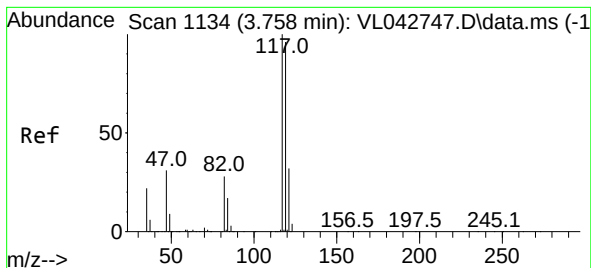
Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion: 43 Resp: 293015
 Ion Ratio Lower Upper
 43 100
 72 21.6 17.4 26.0





#35

Carbon Tetrachloride

Concen: 11.014 ppbv

RT: 3.768 min Scan# 1134

Delta R.T. 0.010 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

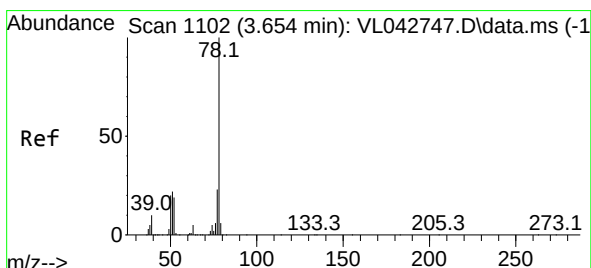
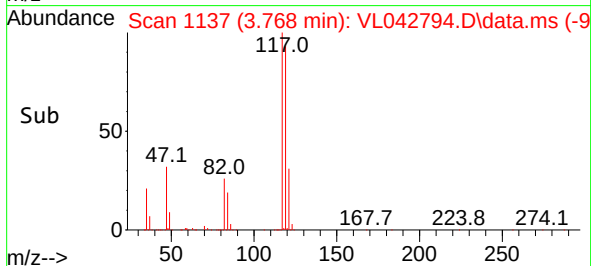
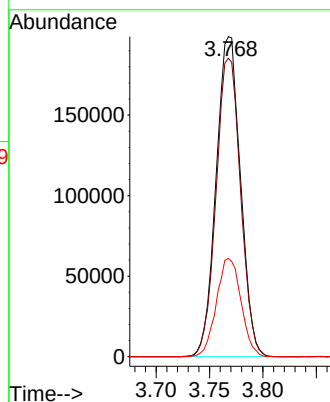
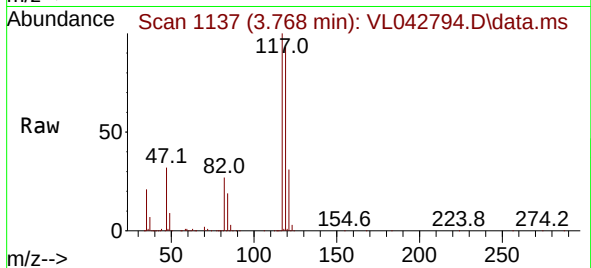
Tgt Ion: 117 Resp: 31519

Ion	Ratio	Lower	Upper
117	100		
119	93.2	77.1	115.7
121	30.7	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#36

Benzene

Concen: 10.677 ppbv

RT: 3.661 min Scan# 1104

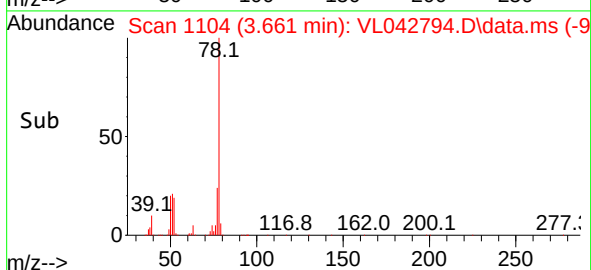
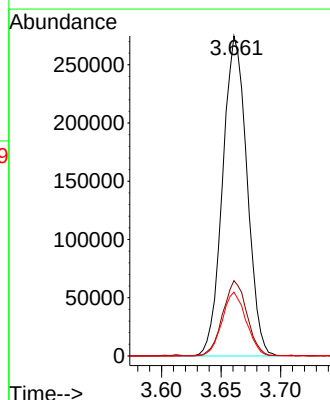
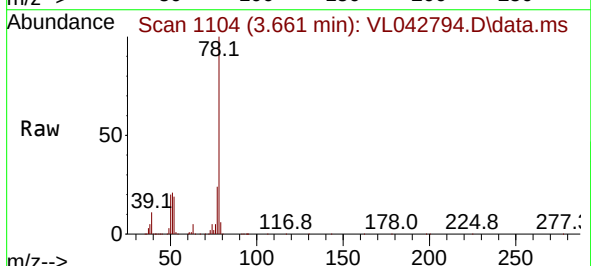
Delta R.T. 0.006 min

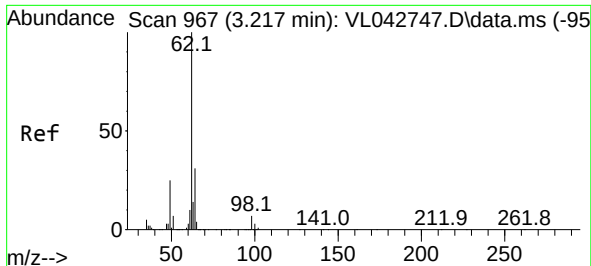
Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion: 78 Resp: 389839

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.5	27.7
50	19.9	16.2	24.2





#37

1,2-Dichloroethane

Concen: 10.756 ppbv

RT: 3.224 min Scan# 90

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

Tgt Ion: 62 Resp: 23659

Ion Ratio Lower Upper

62 100

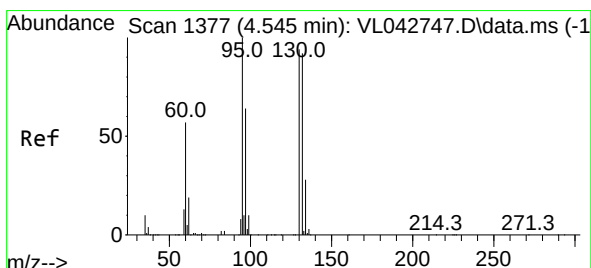
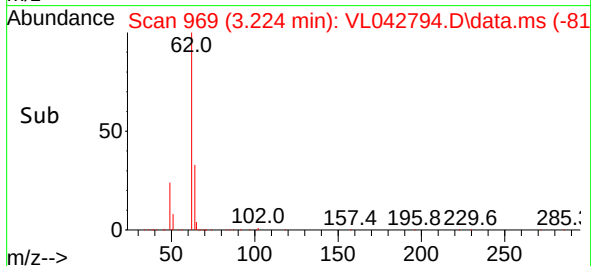
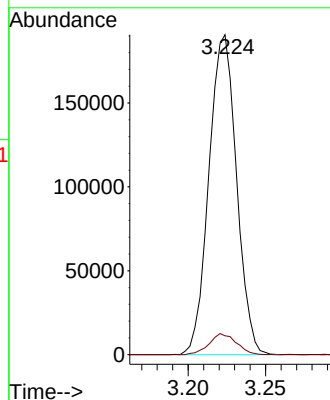
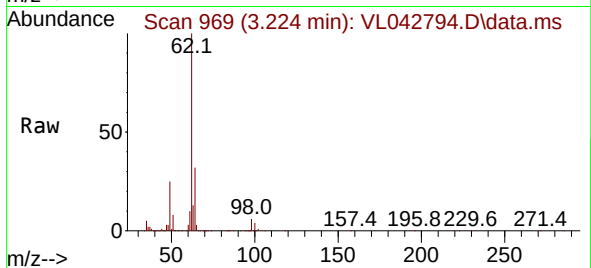
98 6.5 5.2 7.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#38

Trichloroethene

Concen: 9.974 ppbv

RT: 4.557 min Scan# 1381

Delta R.T. 0.013 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion:130 Resp: 174966

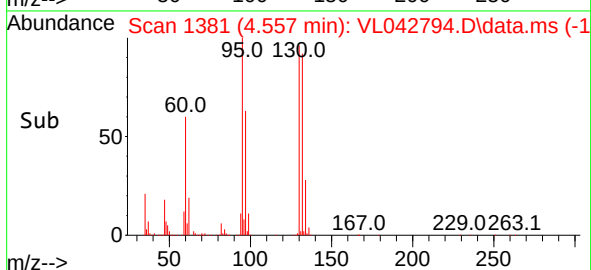
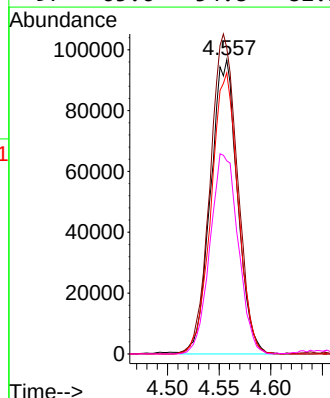
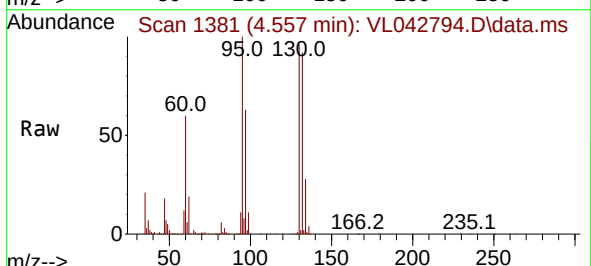
Ion Ratio Lower Upper

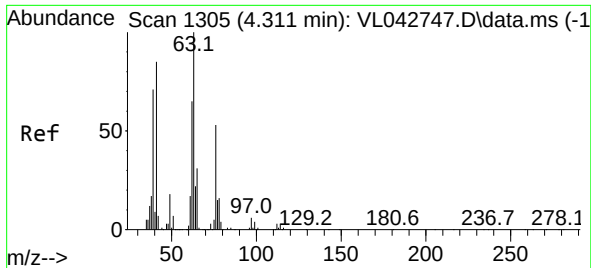
130 100

95 104.0 85.4 128.2

132 95.6 78.2 117.2

97 65.6 54.8 82.2





#39

1,2-Dichloropropane

Concen: 10.741 ppbv

RT: 4.318 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

Tgt Ion: 63 Resp: 144769

Ion Ratio Lower Upper

63 100

41 84.8 68.2 102.4

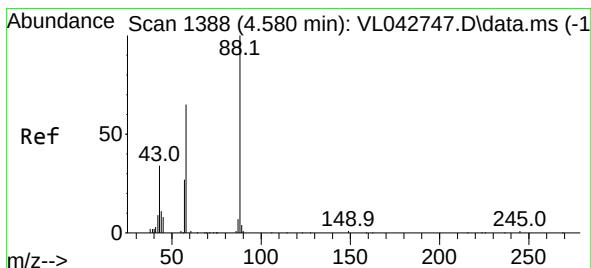
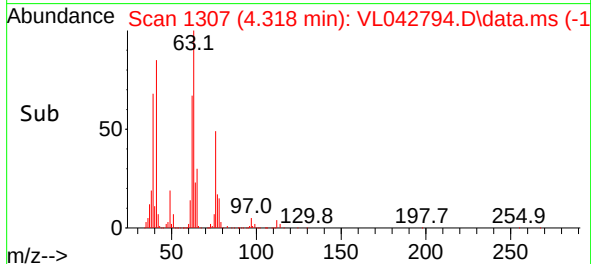
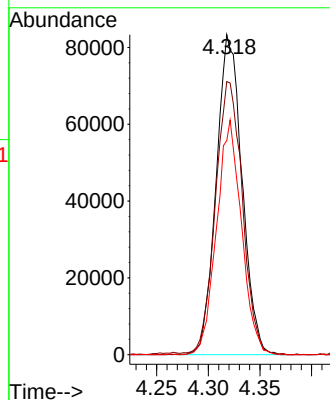
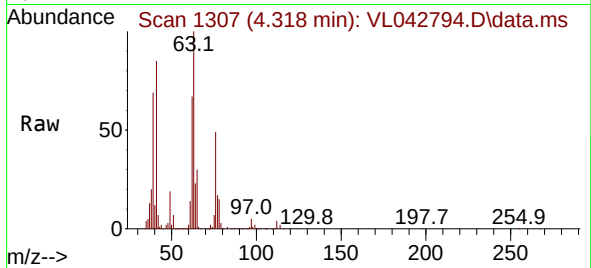
62 66.9 52.0 78.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#40

1,4-Dioxane

Concen: 9.866 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.010 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion: 88 Resp: 61985

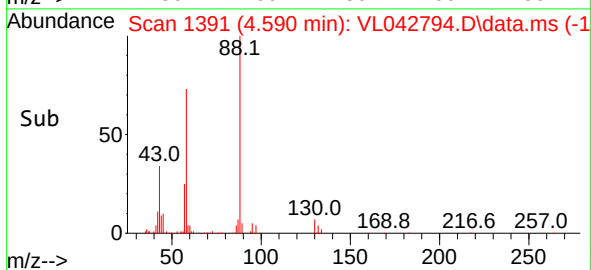
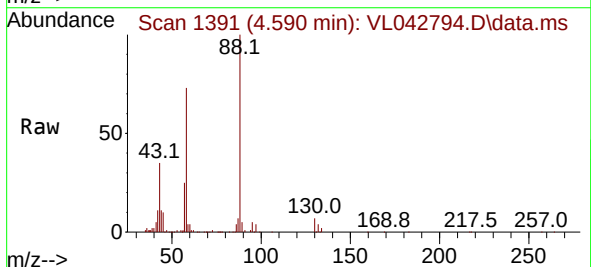
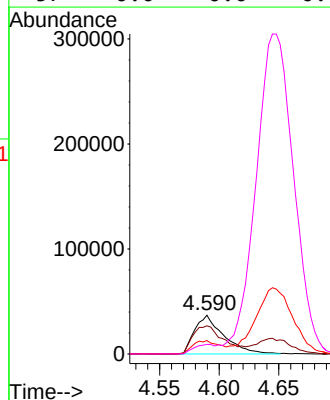
Ion Ratio Lower Upper

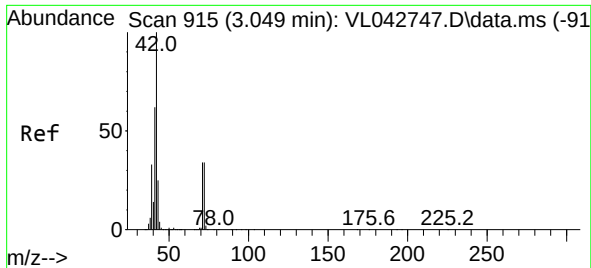
88 100

58 74.7 58.8 88.2

43 32.4 28.9 43.3

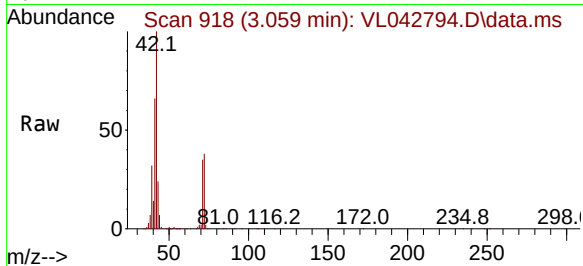
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 11.374 ppbv
RT: 3.059 min Scan# 915
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

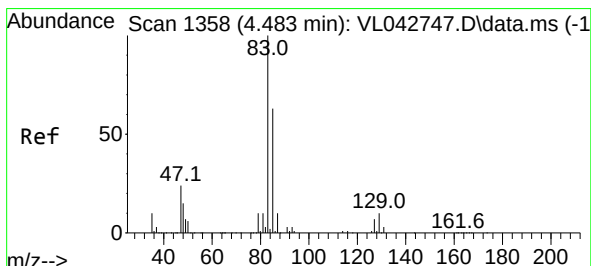
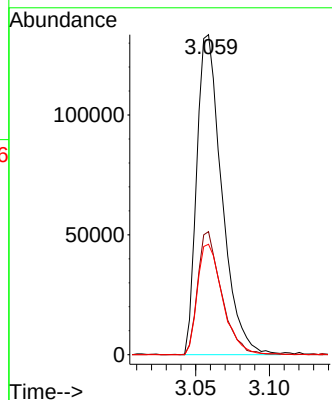
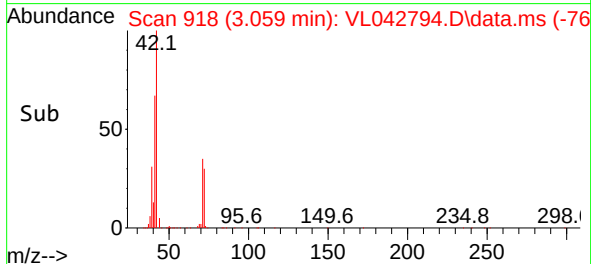
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



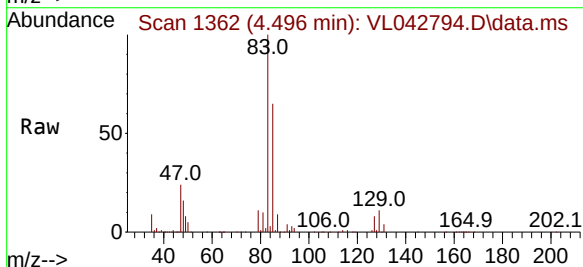
Tgt Ion: 42 Resp: 157948
Ion Ratio Lower Upper
42 100
72 36.5 30.9 46.3
71 34.7 28.6 43.0

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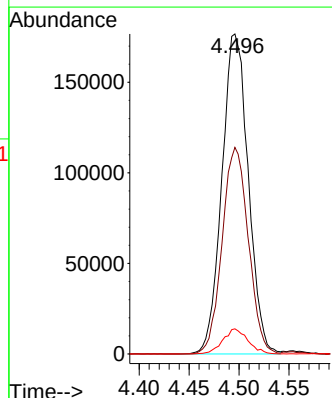
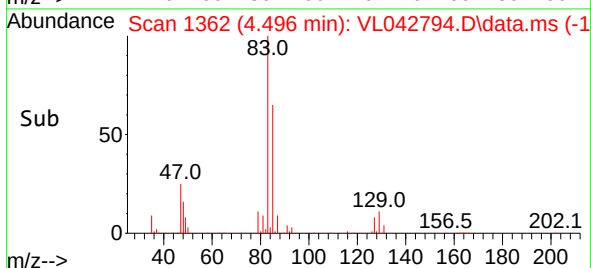
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

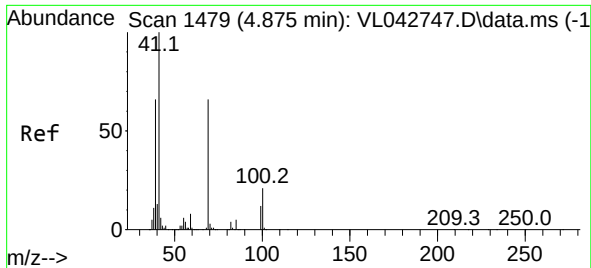


#42
Bromodichloromethane
Concen: 11.336 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



Tgt Ion: 83 Resp: 324724
Ion Ratio Lower Upper
83 100
85 64.6 50.2 75.4
127 7.9 5.4 8.2





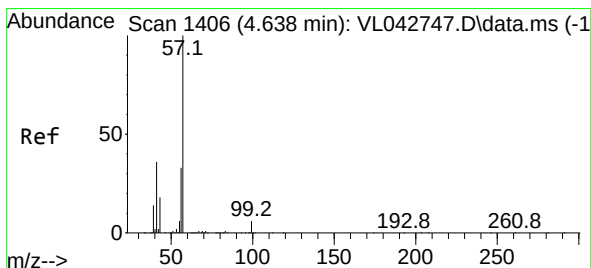
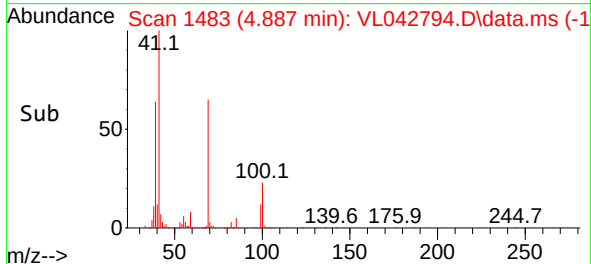
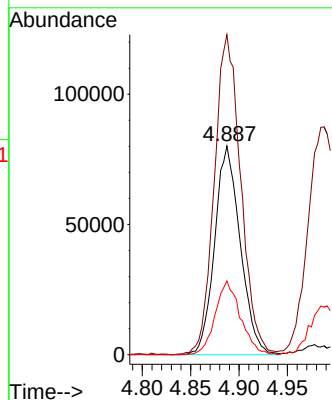
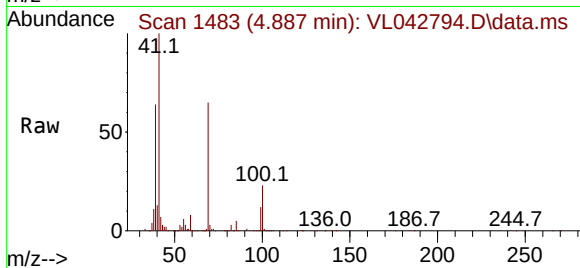
#43
Methyl Methacrylate
Concen: 11.338 ppbv
RT: 4.887 min Scan# 1479
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

Tgt Ion: 69 Resp: 147145
Ion Ratio Lower Upper
69 100
41 158.7 125.7 188.5
100 34.8 28.6 42.8

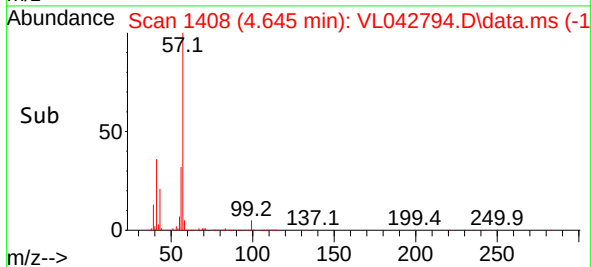
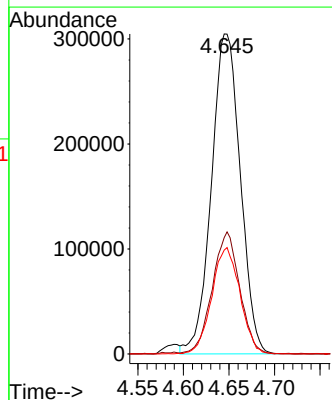
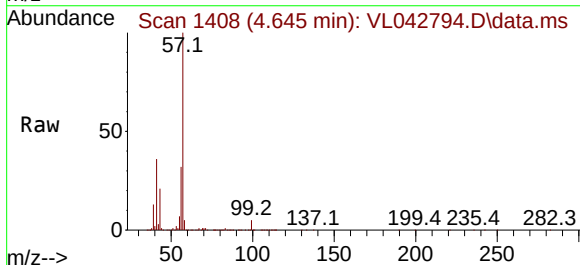
Manual Integrations
APPROVED

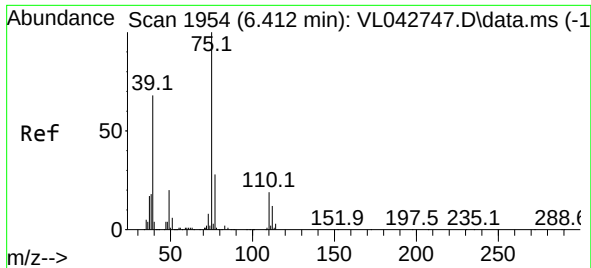
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#44
2,2,4-Trimethylpentane
Concen: 11.311 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

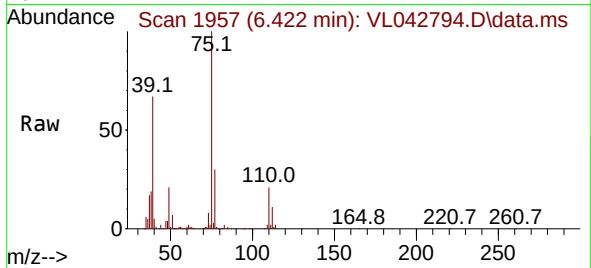
Tgt Ion: 57 Resp: 673176
Ion Ratio Lower Upper
57 100
41 36.6 28.3 42.5
56 32.6 25.8 38.6





#45
 t-1,3-Dichloropropene
 Concen: 10.976 ppbv
 RT: 6.422 min Scan# 1954
 Delta R.T. 0.010 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

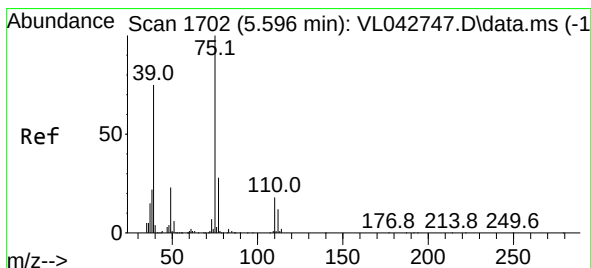
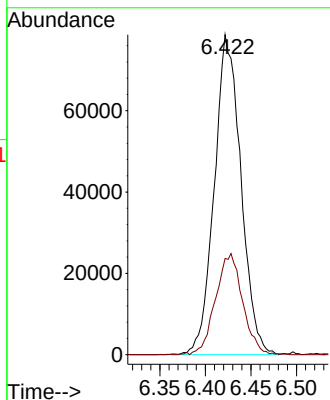
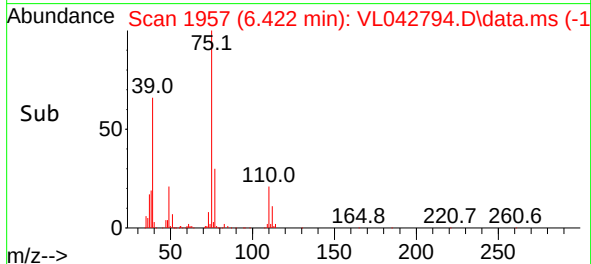
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01



Tgt Ion: 75 Resp: 15975
 Ion Ratio Lower Upper
 75 100
 77 30.1 22.4 33.6

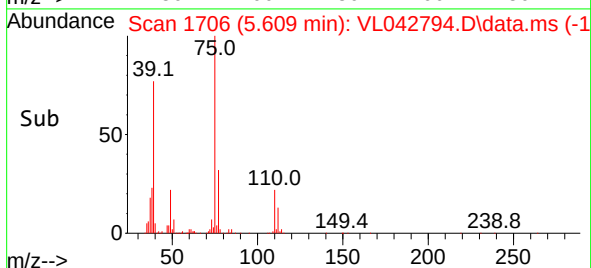
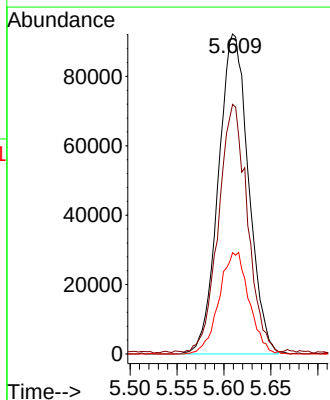
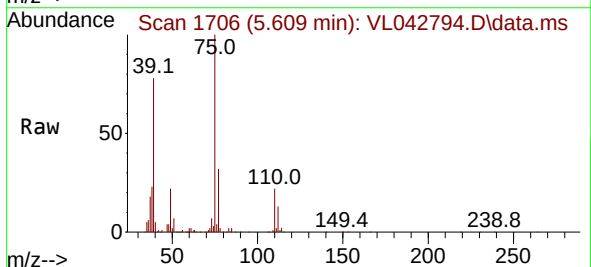
Manual Integrations
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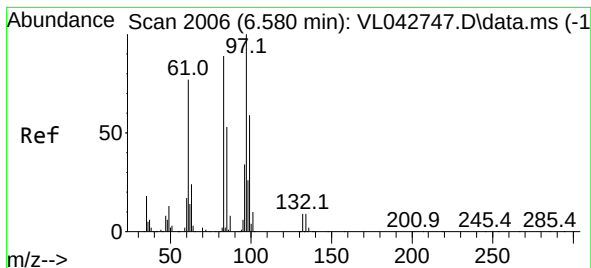
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#46
 cis-1,3-Dichloropropene
 Concen: 11.160 ppbv
 RT: 5.609 min Scan# 1706
 Delta R.T. 0.013 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion: 75 Resp: 205816
 Ion Ratio Lower Upper
 75 100
 39 77.2 60.2 90.2
 77 31.7 22.6 34.0





#47

1,1,2-Trichloroethane

Concen: 10.873 ppbv

RT: 6.590 min Scan# 2006

Delta R.T. 0.010 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

Tgt Ion: 97 Resp: 156210

Ion Ratio Lower Upper

97 100

83 85.7 71.1 106.7

85 54.3 43.0 64.4

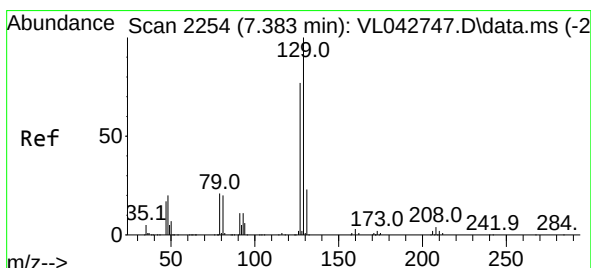
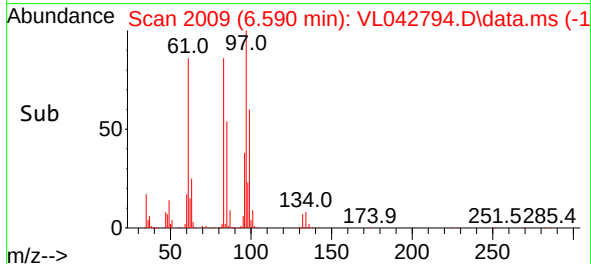
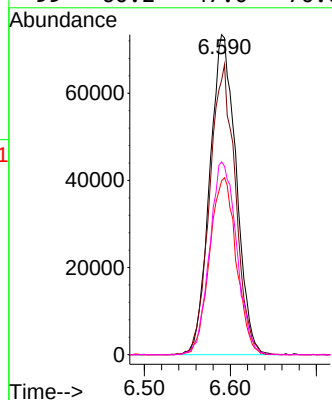
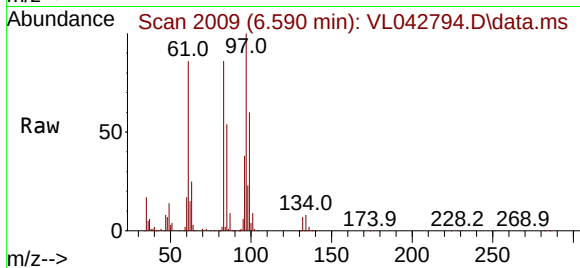
99 60.2 47.0 70.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#48

Dibromochloromethane

Concen: 11.510 ppbv

RT: 7.396 min Scan# 2258

Delta R.T. 0.013 min

Lab File: VL042794.D

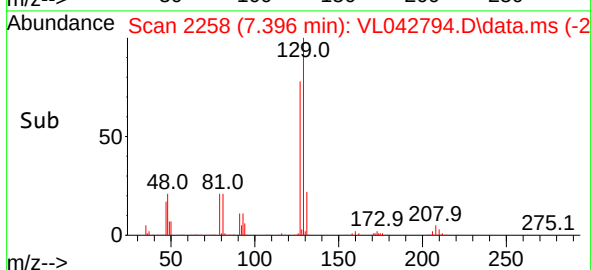
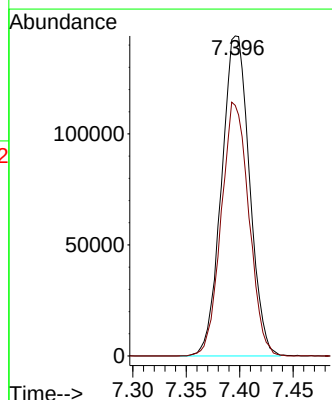
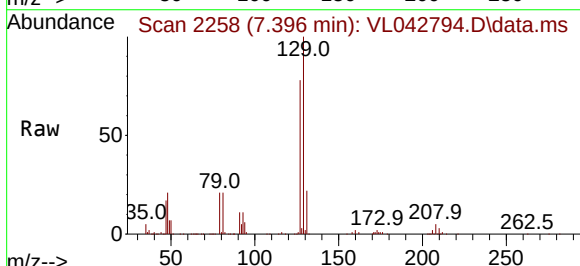
Acq: 31 Jul 2025 13:55

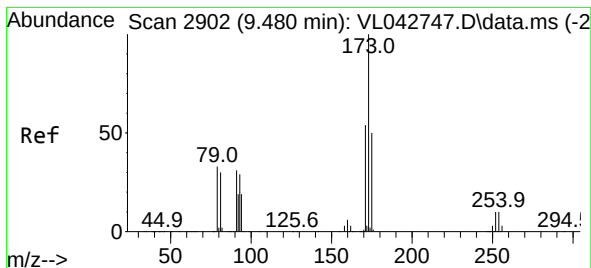
Tgt Ion:129 Resp: 262522

Ion Ratio Lower Upper

129 100

127 78.2 38.7 116.1





#49

Bromoform

Concen: 11.811 ppbv

RT: 9.493 min Scan# 2902

Delta R.T. 0.013 min

Lab File: VL042794.D

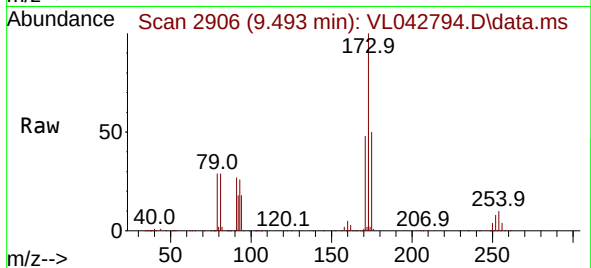
Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01



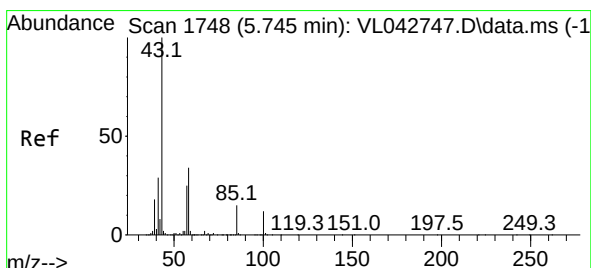
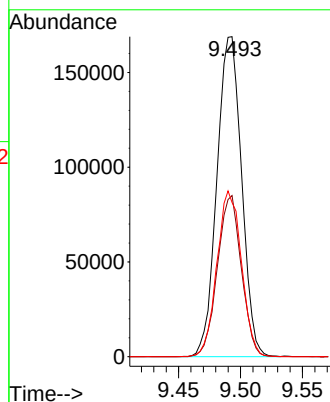
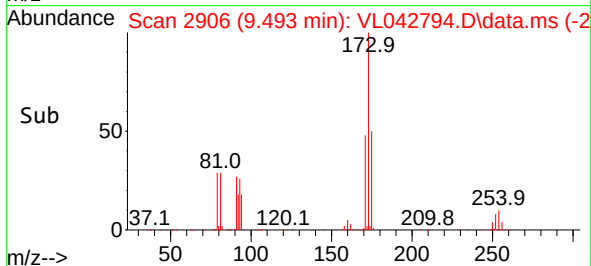
Tgt Ion: 173 Resp: 23489

Ion	Ratio	Lower	Upper
173	100		
175	48.8	38.4	57.6
171	51.5	40.9	61.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#50

4-Methyl-2-Pentanone

Concen: 11.467 ppbv

RT: 5.761 min Scan# 1753

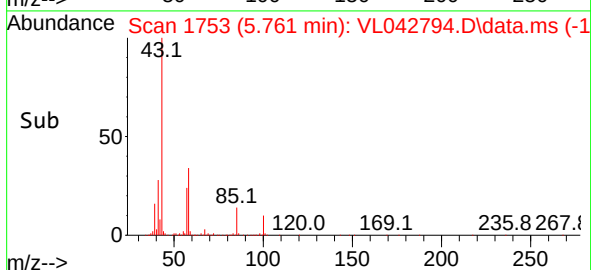
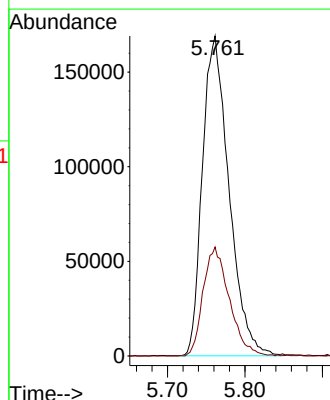
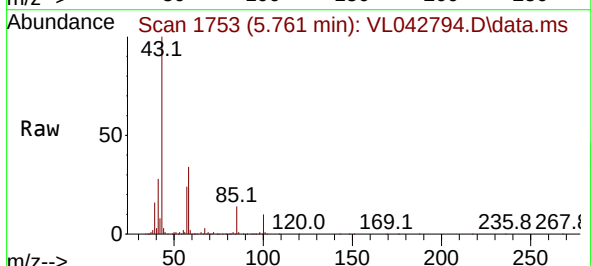
Delta R.T. 0.016 min

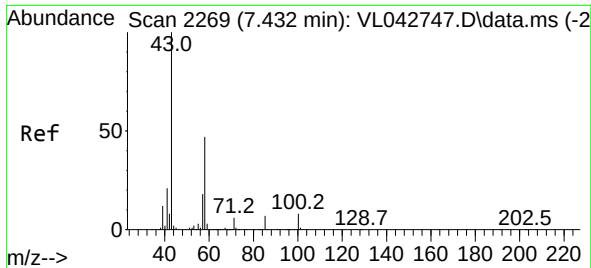
Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion: 43 Resp: 403132

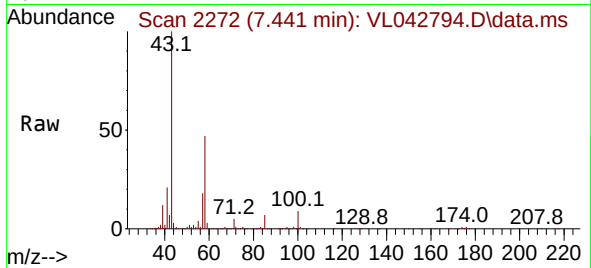
Ion	Ratio	Lower	Upper
43	100		
58	33.5	27.8	41.8





#51
2-Hexanone
Concen: 12.152 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

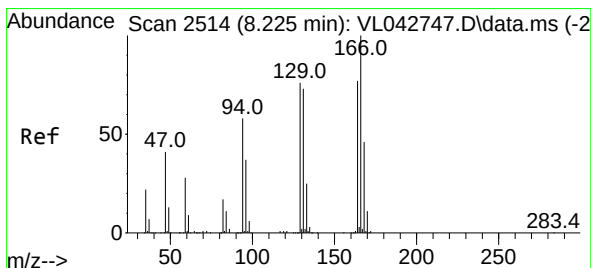
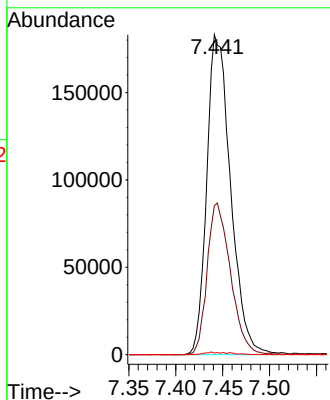
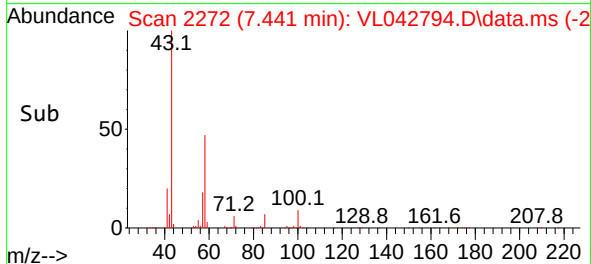
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



Tgt Ion: 43 Resp: 32282
Ion Ratio Lower Upper
43 100
58 46.5 38.0 57.0
98 0.9 0.2 0.4

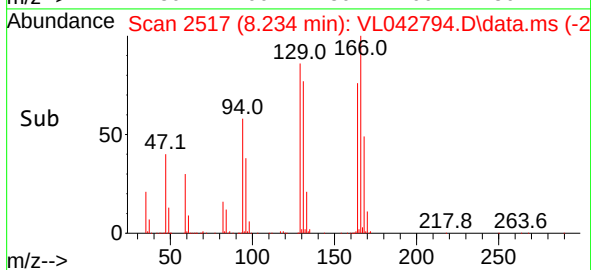
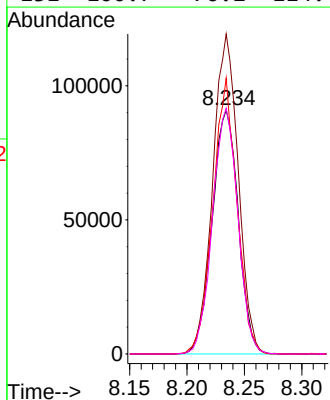
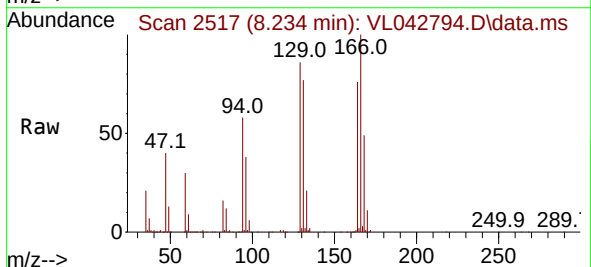
Manual Integrations
APPROVED

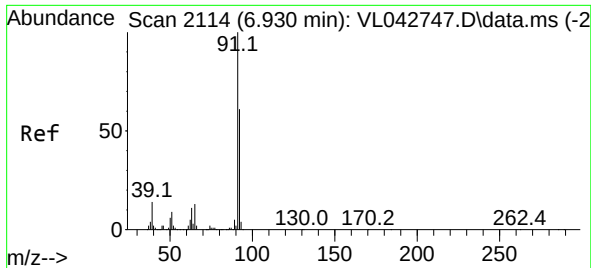
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#52
Tetrachloroethene
Concen: 9.518 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.009 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion:164 Resp: 144051
Ion Ratio Lower Upper
164 100
166 131.1 104.0 156.0
129 112.9 79.2 118.8
131 100.7 76.2 114.4





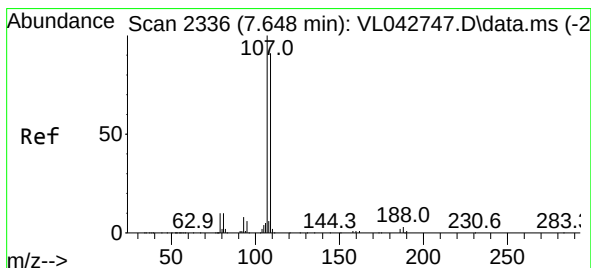
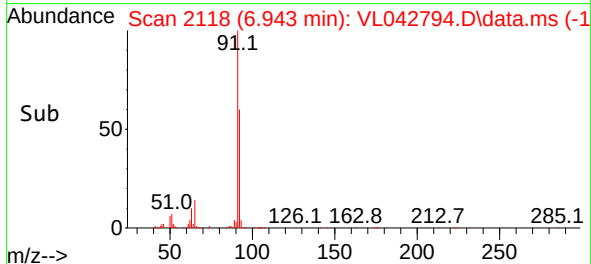
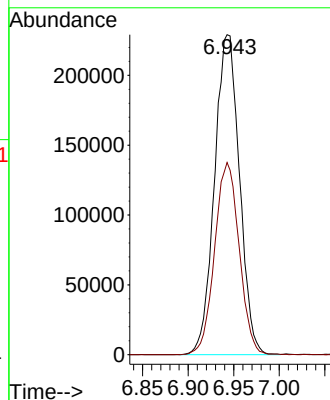
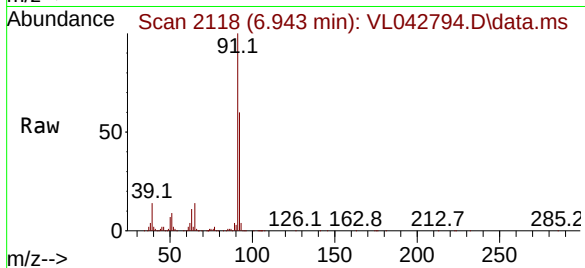
#53
Toluene
Concen: 11.135 ppbv
RT: 6.943 min Scan# 2114
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

Tgt Ion: 91 Resp: 43660
Ion Ratio Lower Upper
91 100
92 59.1 48.0 72.0

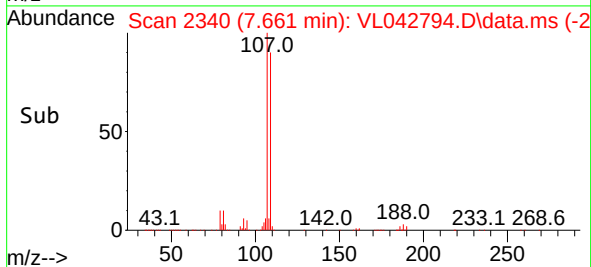
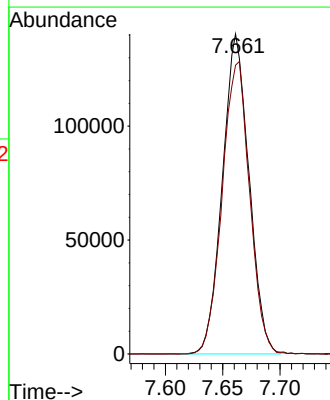
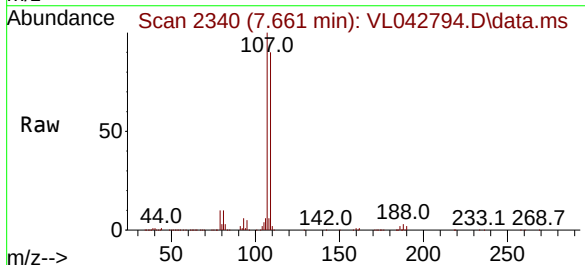
Manual Integrations
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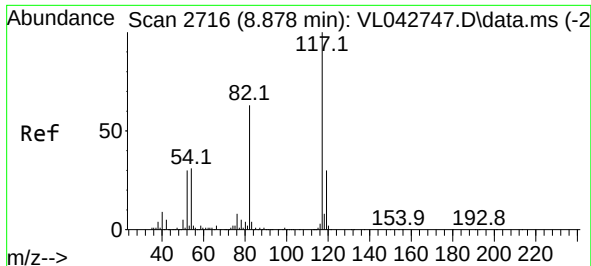
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#54
1,2-Dibromoethane
Concen: 11.172 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

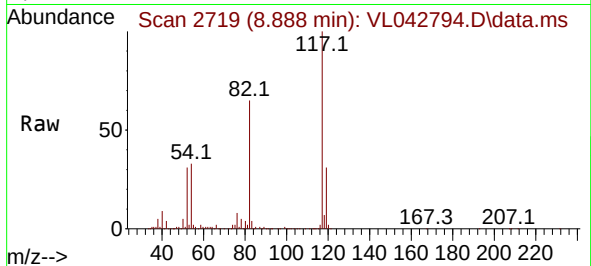
Tgt Ion:107 Resp: 226779
Ion Ratio Lower Upper
107 100
109 90.2 72.7 109.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2716
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

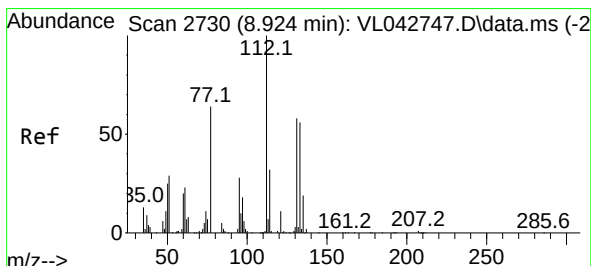
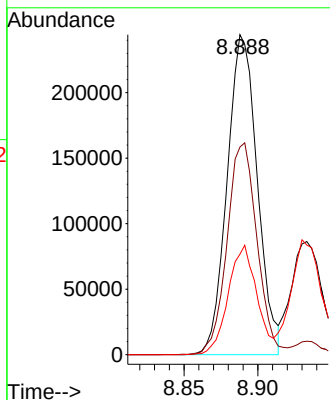
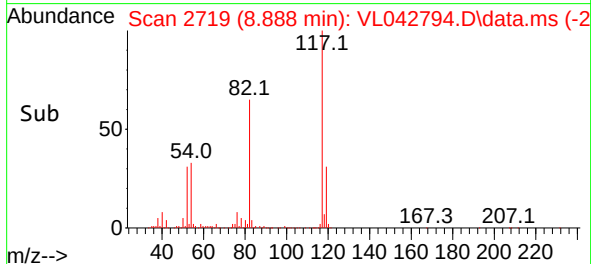
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



Tgt Ion:117 Resp: 34768
Ion Ratio Lower Upper
117 100
82 69.6 53.3 79.9
119 33.5 25.8 38.6

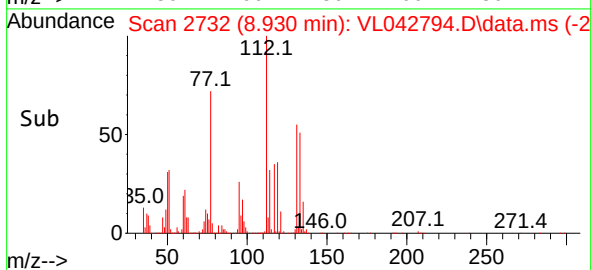
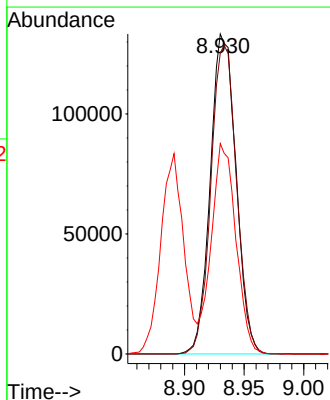
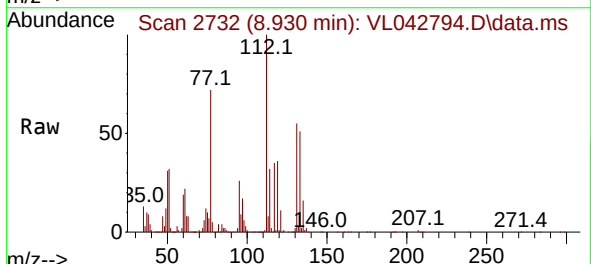
Manual Integrations
APPROVED

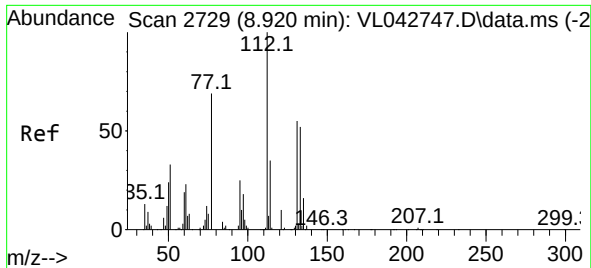
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 11.035 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

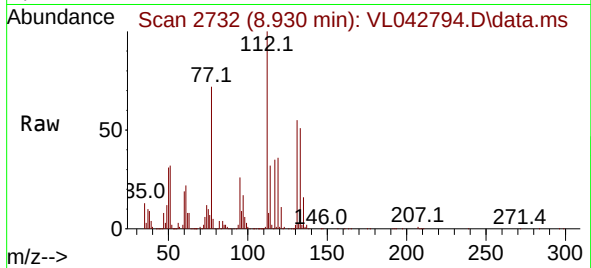
Tgt Ion:131 Resp: 199484
Ion Ratio Lower Upper
131 100
133 96.5 76.8 115.2
119 64.2 49.7 74.5





#57
Chlorobenzene
Concen: 10.519 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

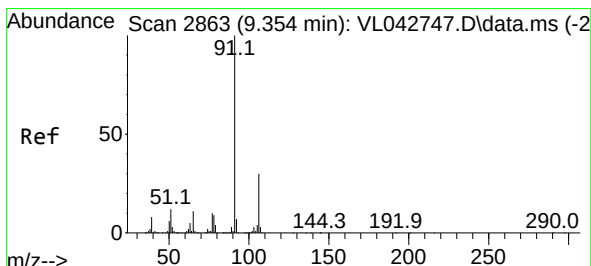
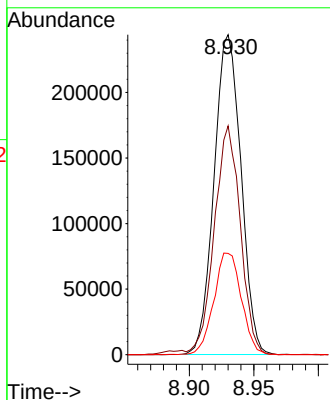
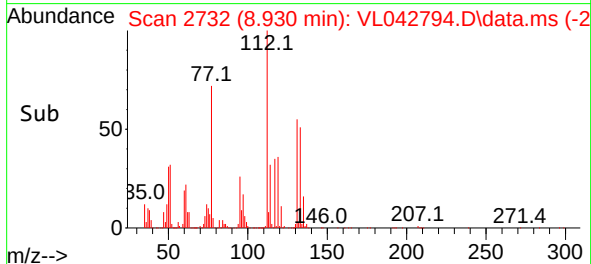
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



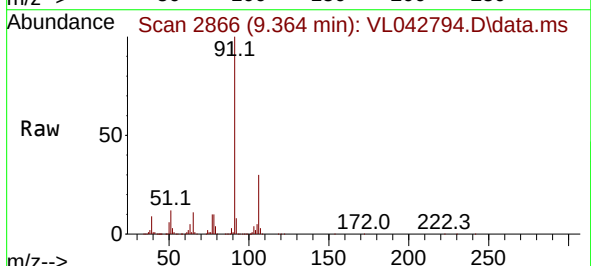
Tgt Ion:112 Resp: 353940
Ion Ratio Lower Upper
112 100
77 71.6 56.4 84.6
114 31.6 31.2 38.2

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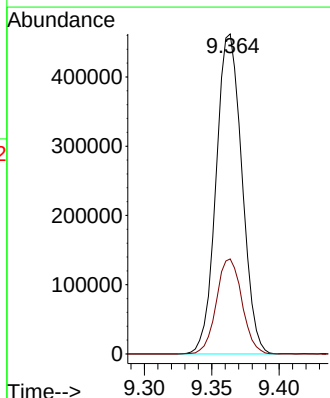
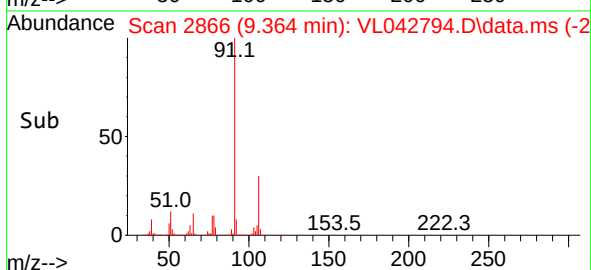
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

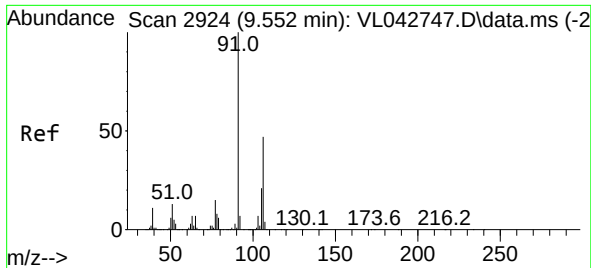


#58
Ethyl Benzene
Concen: 11.212 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



Tgt Ion: 91 Resp: 615615
Ion Ratio Lower Upper
91 100
106 29.7 23.8 35.6





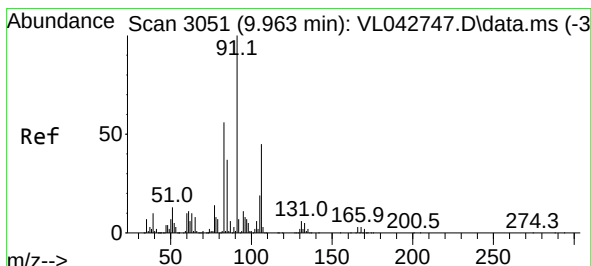
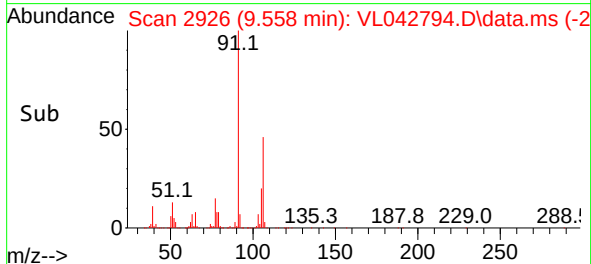
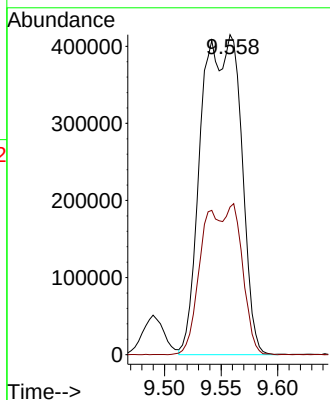
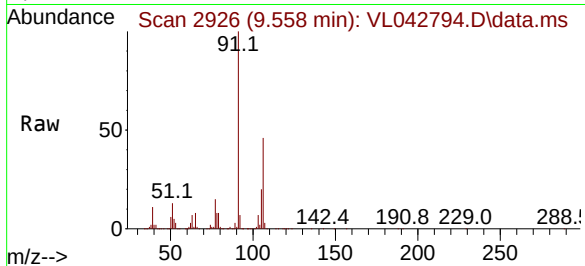
#59
m/p-Xylene
Concen: 23.289 ppbv m
RT: 9.558 min Scan# 2924
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

Tgt Ion: 91 Resp: 1021929
Ion Ratio Lower Upper
91 100
106 46.6 37.4 56.2

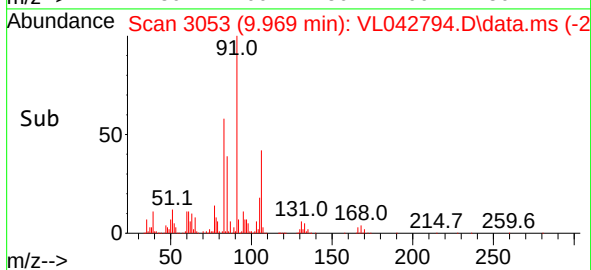
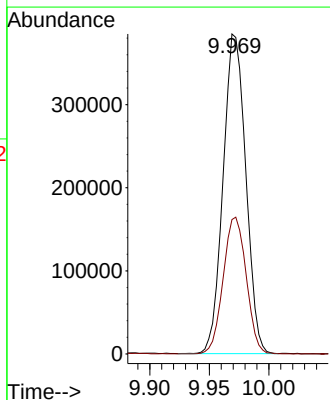
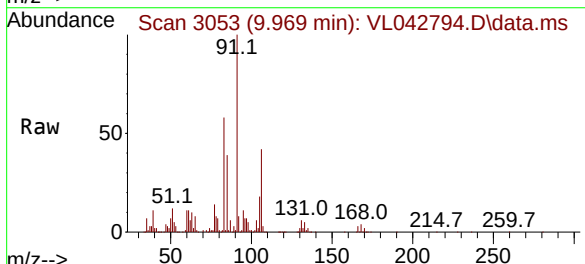
Manual Integrations
APPROVED

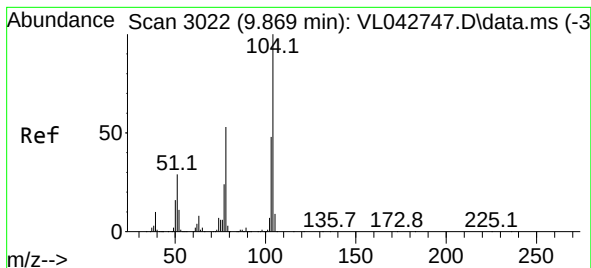
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#60
o-Xylene
Concen: 11.615 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 91 Resp: 509306
Ion Ratio Lower Upper
91 100
106 43.6 22.0 66.0





#61

Styrene

Concen: 11.813 ppbv

RT: 9.878 min Scan# 3022

Delta R.T. 0.009 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

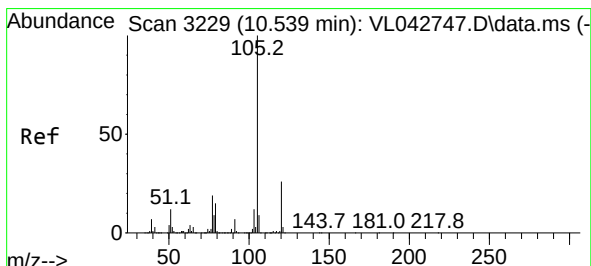
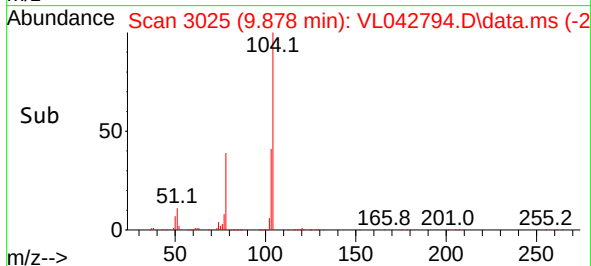
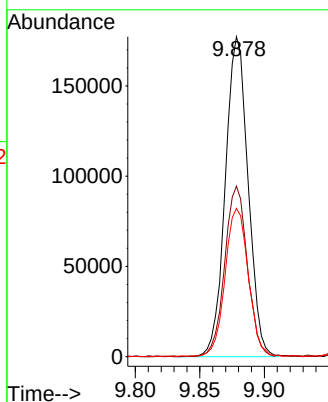
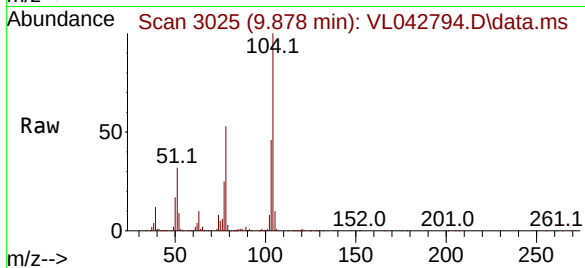
VL0731ABSD01

Tgt Ion:104 Resp: 217878
Ion Ratio Lower Upper
104 100
78 53.1 41.5 62.3
103 47.6 37.5 56.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#62

Isopropylbenzene

Concen: 11.304 ppbv

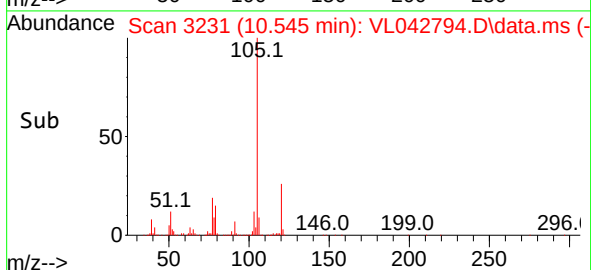
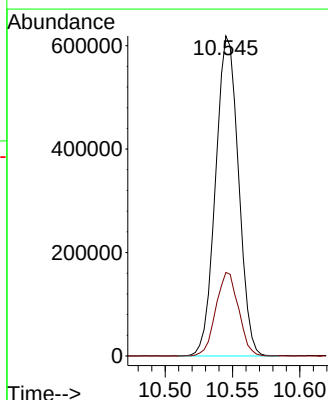
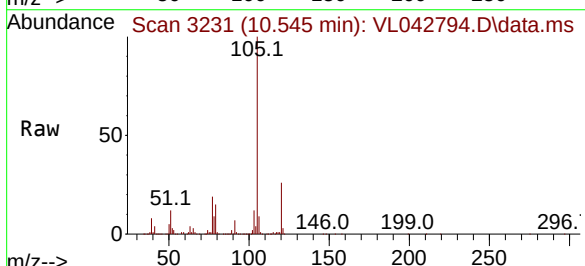
RT: 10.545 min Scan# 3231

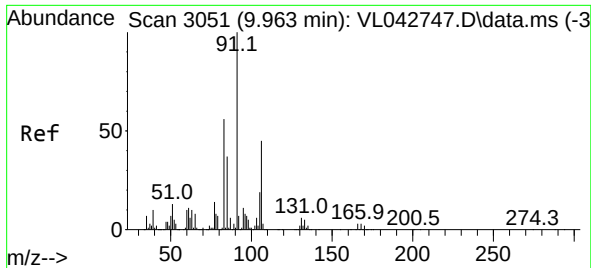
Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

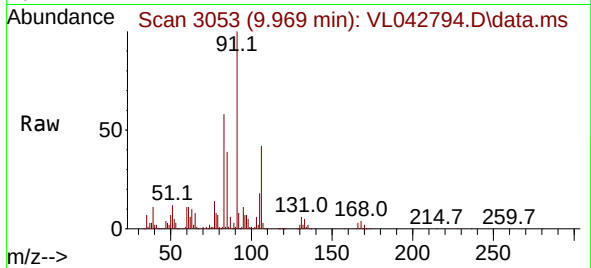
Tgt Ion:105 Resp: 731077
Ion Ratio Lower Upper
105 100
120 25.9 20.5 30.7





#63
1,1,2,2-Tetrachloroethane
Concen: 10.323 ppbv
RT: 9.969 min Scan# 3051
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

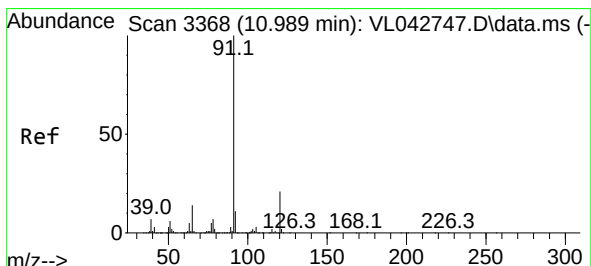
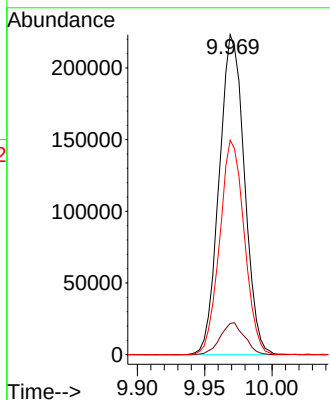
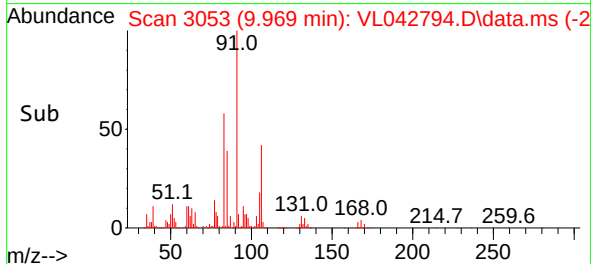
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



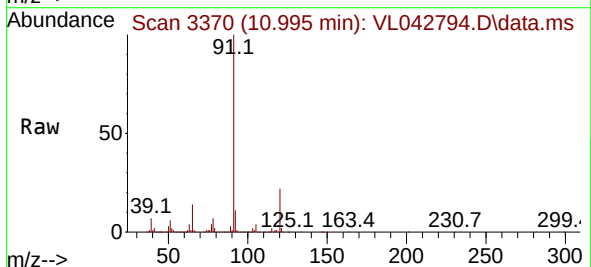
Tgt Ion: 83 Resp: 29057
Ion Ratio Lower Upper
83 100
131 9.6 5.0 15.0
85 65.6 32.6 97.7

Manual Integrations
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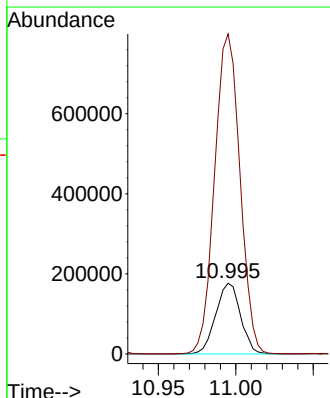
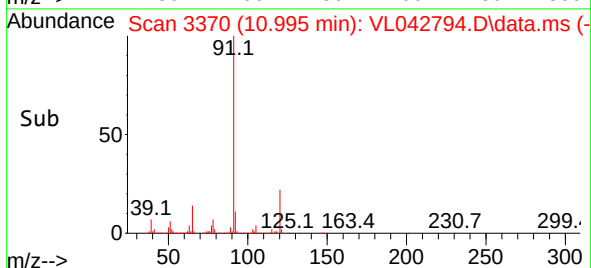
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

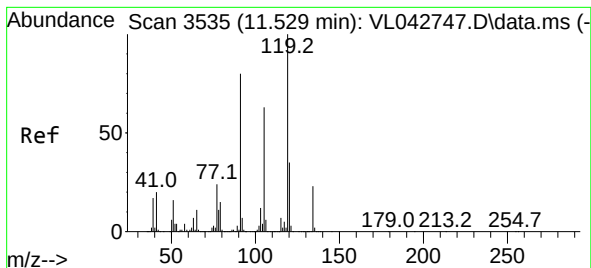


#64
n-propylbenzene
Concen: 11.637 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



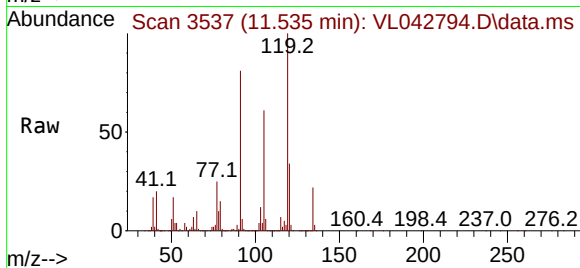
Tgt Ion:120 Resp: 196210
Ion Ratio Lower Upper
120 100
91 464.6 372.7 559.1





#65
tert-Butylbenzene
Concen: 11.427 ppbv
RT: 11.535 min Scan# 3535
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

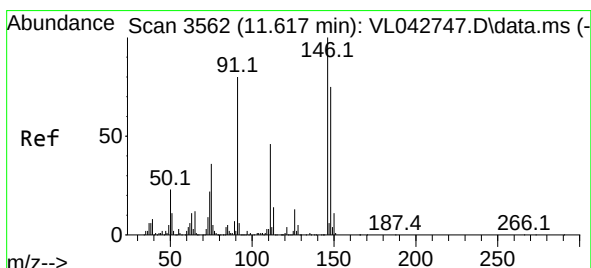
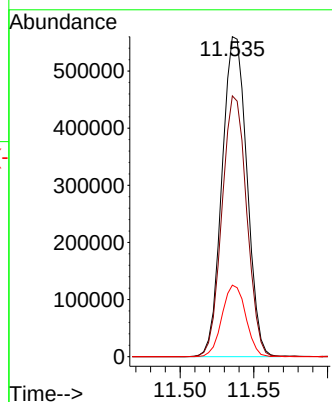
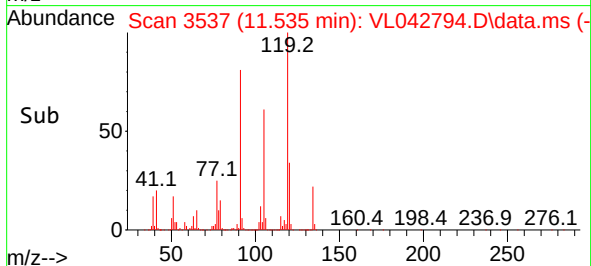
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



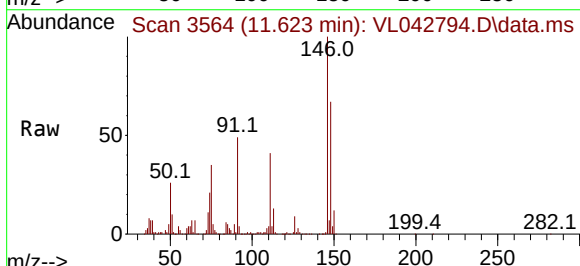
Tgt Ion: 119 Resp: 65649
Ion Ratio Lower Upper
119 100
91 81.0 64.0 96.0
134 21.4 17.3 25.9

Manual Integrations
APPROVED

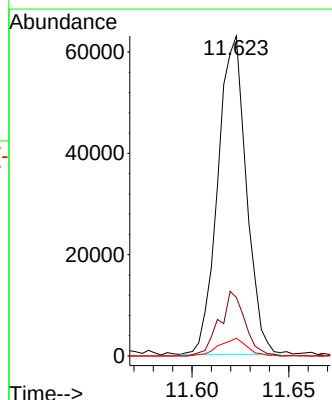
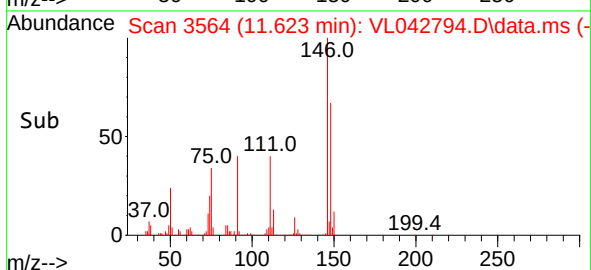
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

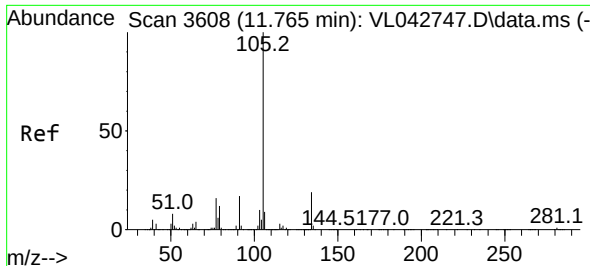


#66
Benzyl Chloride
Concen: 13.634 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



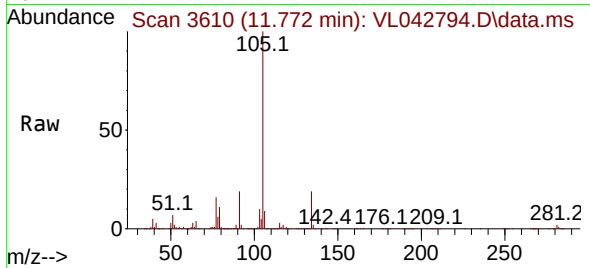
Tgt Ion: 91 Resp: 64301
Ion Ratio Lower Upper
91 100
126 18.3 14.4 21.6
128 5.6 5.2 7.8





#67
 sec-Butylbenzene
 Concen: 11.374 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.006 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

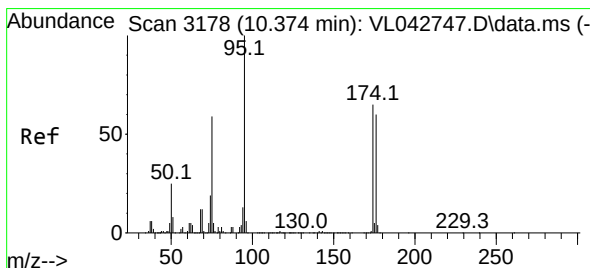
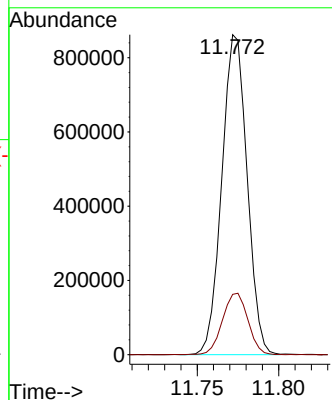
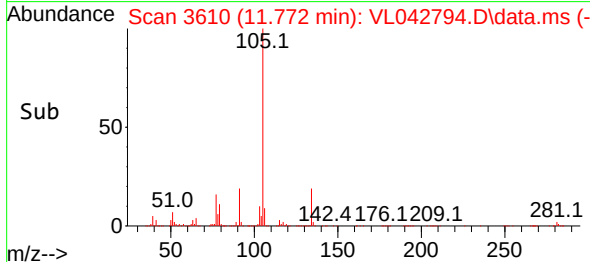
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01



Tgt Ion:105 Resp: 92935
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.5 23.3

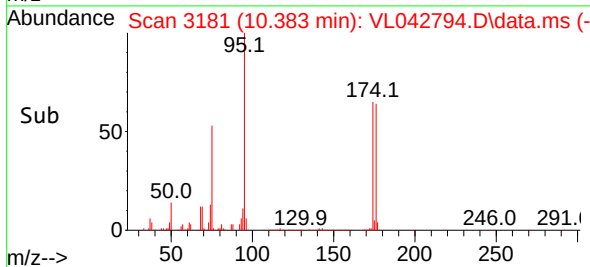
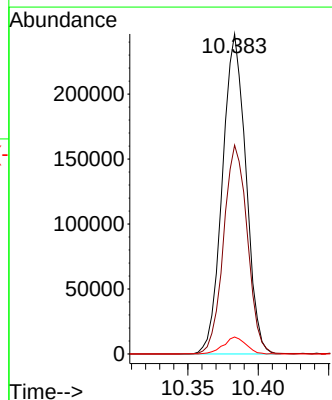
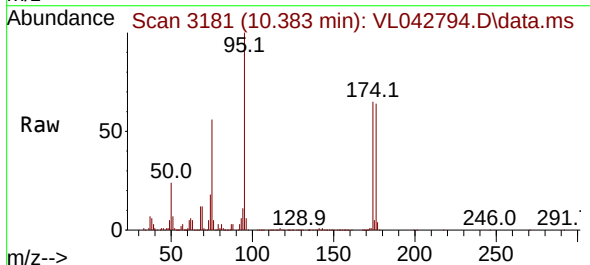
Manual Integrations
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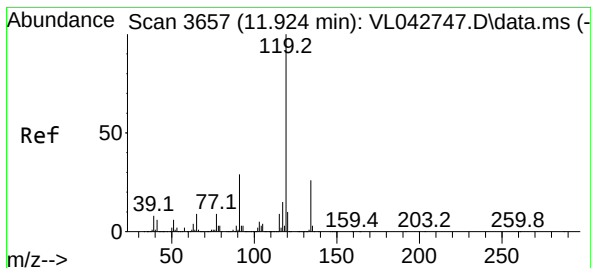
Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.386 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. 0.009 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion: 95 Resp: 285966
 Ion Ratio Lower Upper
 95 100
 174 66.1 53.8 80.6
 175 5.1 4.0 6.0





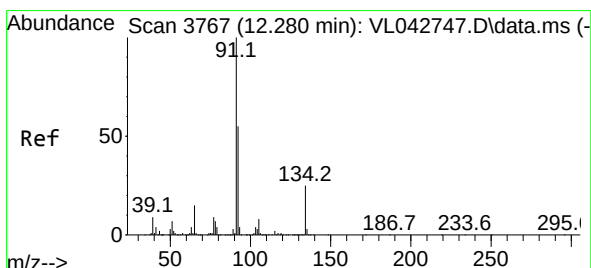
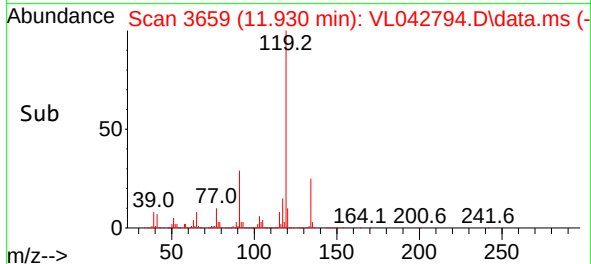
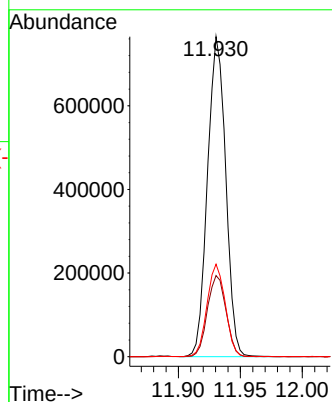
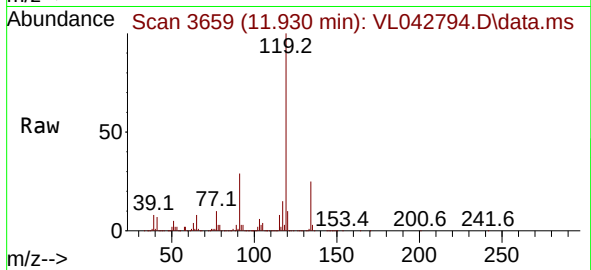
#69
p-Isopropyltoluene
Concen: 11.766 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

Tgt Ion: 119 Resp: 783925
Ion Ratio Lower Upper
119 100
134 26.0 20.6 31.0
91 28.9 23.2 34.8

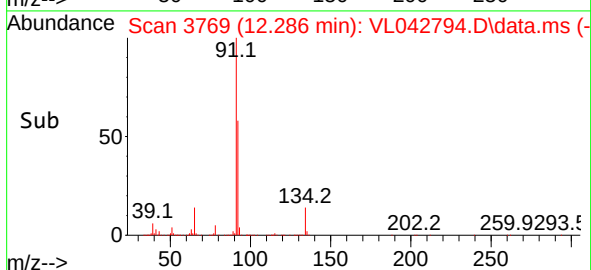
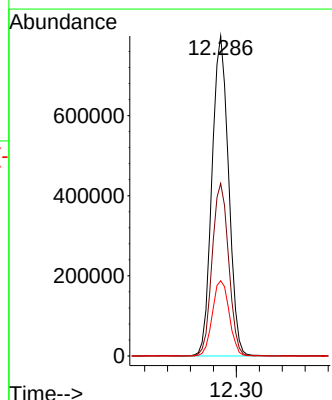
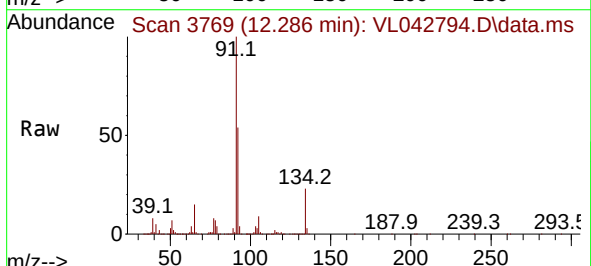
Manual Integrations
APPROVED

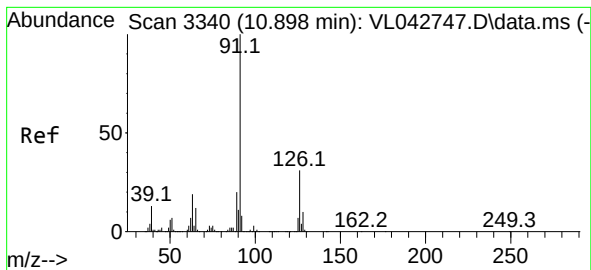
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025



#70
n-Butylbenzene
Concen: 12.474 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

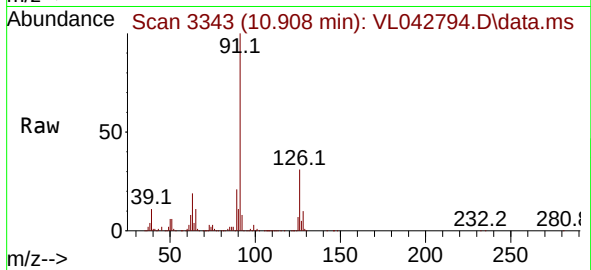
Tgt Ion: 91 Resp: 802758
Ion Ratio Lower Upper
91 100
92 53.6 43.4 65.2
134 23.9 19.6 29.4





#71
2-Chlorotoluene
Concen: 11.306 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

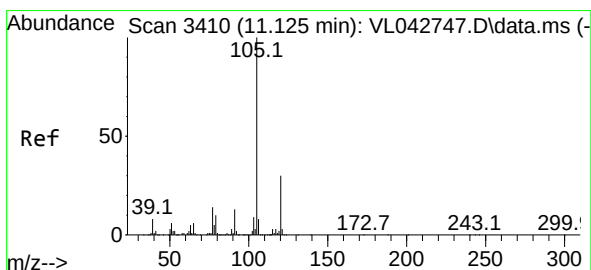
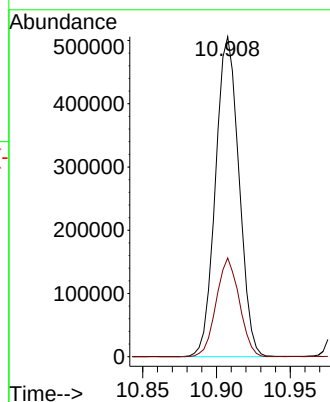
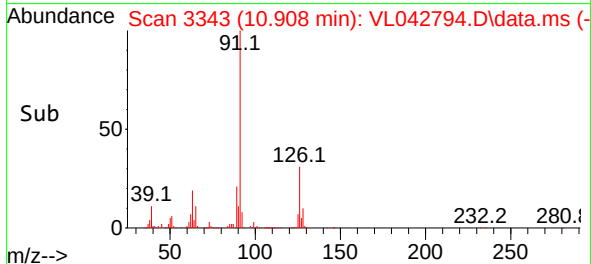
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



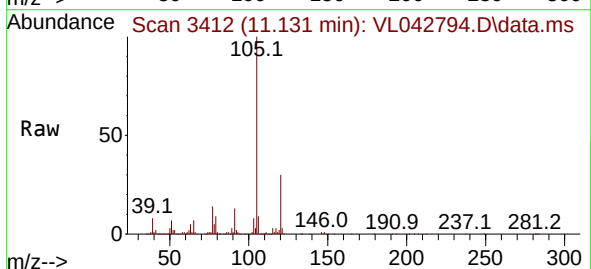
Tgt Ion: 91 Resp: 560672
Ion Ratio Lower Upper
91 100
126 30.4 12.0 48.2

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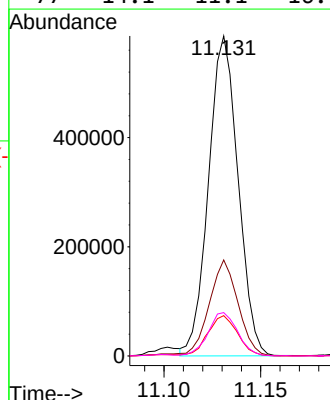
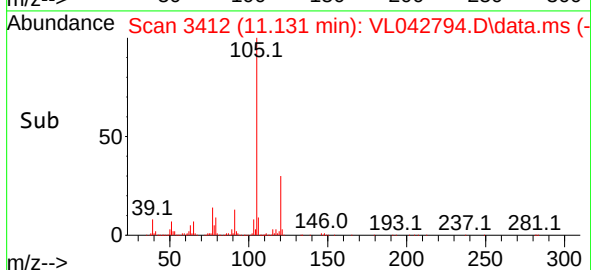
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

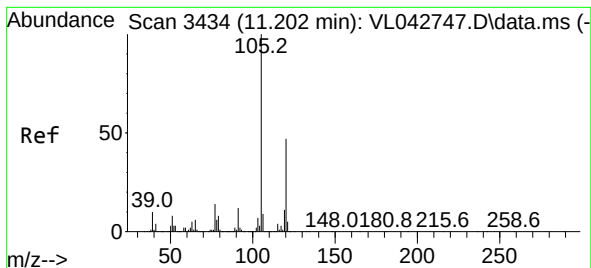


#72
4-Ethyltoluene
Concen: 11.893 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



Tgt Ion:105 Resp: 622768
Ion Ratio Lower Upper
105 100
120 29.9 24.4 36.6
91 13.0 10.6 15.8
77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 12.114 ppbv

RT: 11.209 min Scan# 3434

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

Tgt Ion:105 Resp: 522269

Ion Ratio Lower Upper

105 100

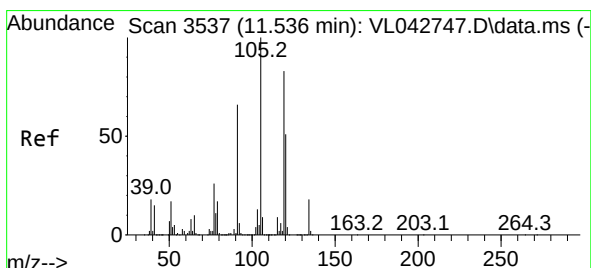
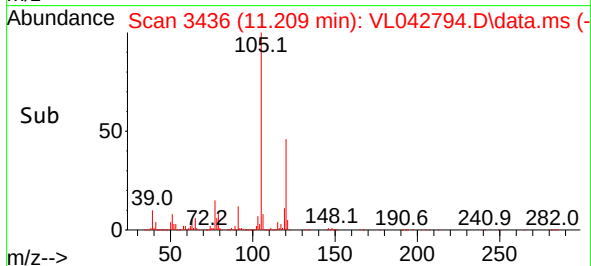
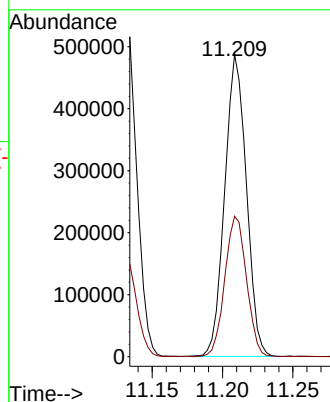
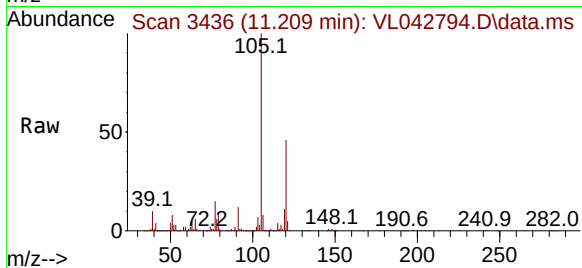
120 46.5 37.8 56.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#74

1,2,4-Trimethylbenzene

Concen: 12.248 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion:105 Resp: 576097

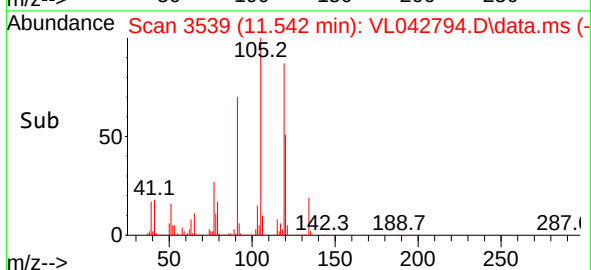
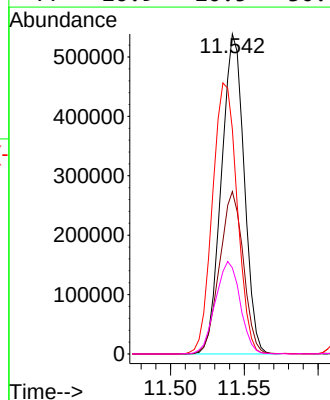
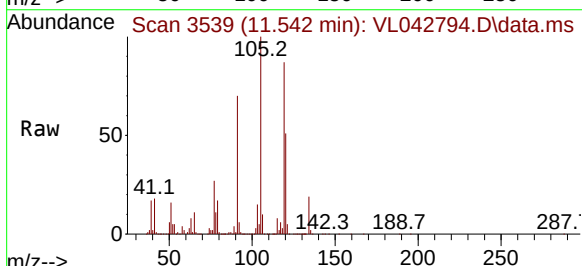
Ion Ratio Lower Upper

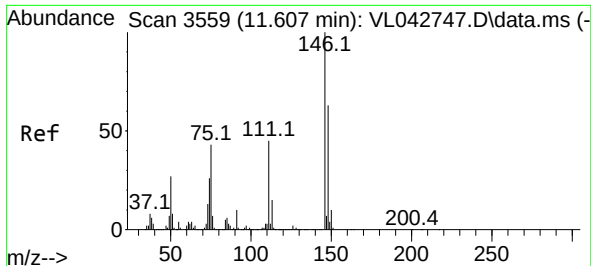
105 100

120 50.7 40.8 61.2

91 70.2 53.0 79.4

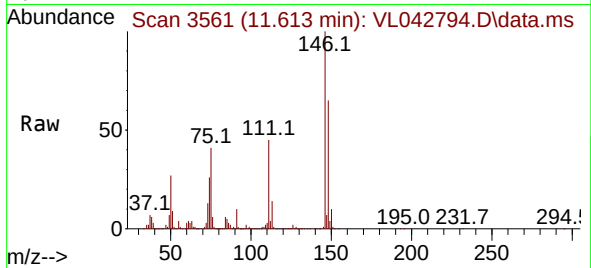
77 26.9 20.5 30.7





#75
1,3-Dichlorobenzene
Concen: 11.224 ppbv
RT: 11.613 min Scan# 3559
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

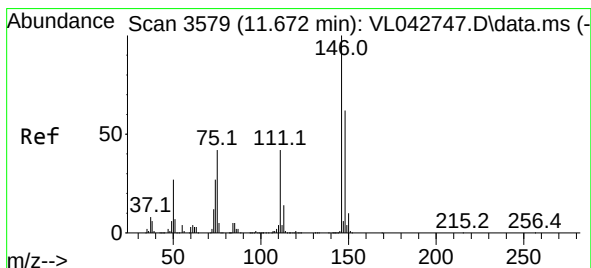
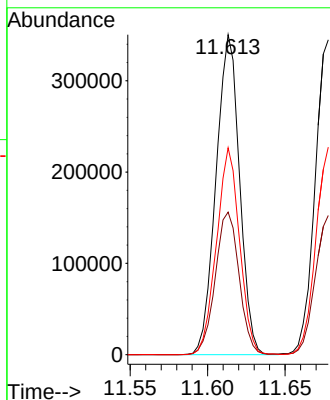
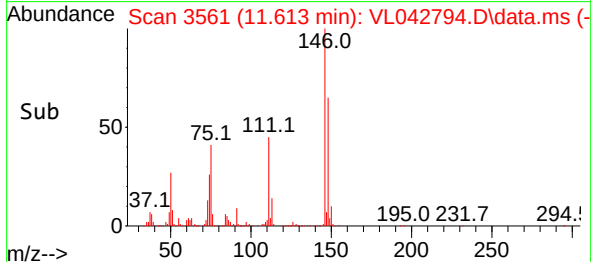
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



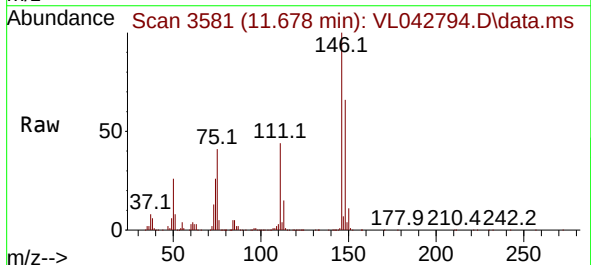
Tgt Ion:146 Resp: 370097
Ion Ratio Lower Upper
146 100
111 45.2 22.7 68.0
148 63.4 31.9 95.5

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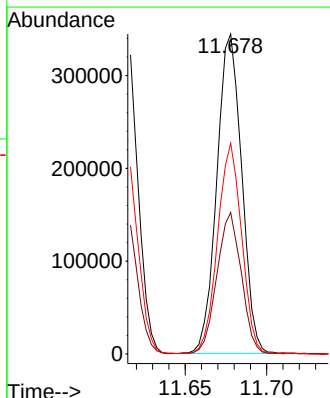
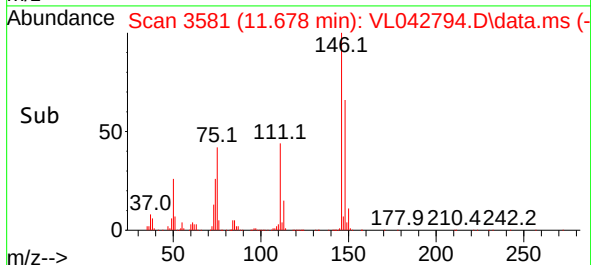
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

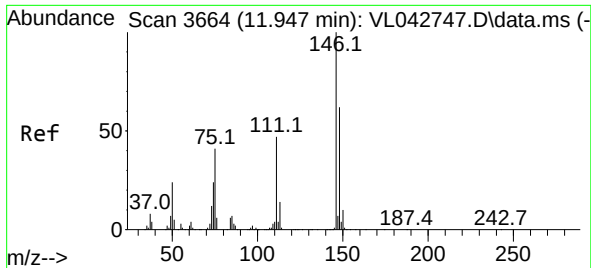


#76
1,4-Dichlorobenzene
Concen: 11.326 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



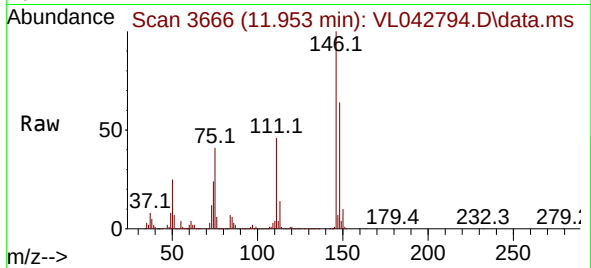
Tgt Ion:146 Resp: 365448
Ion Ratio Lower Upper
146 100
111 43.8 21.4 64.2
148 63.8 32.1 96.3





#77
1,2-Dichlorobenzene
Concen: 11.043 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

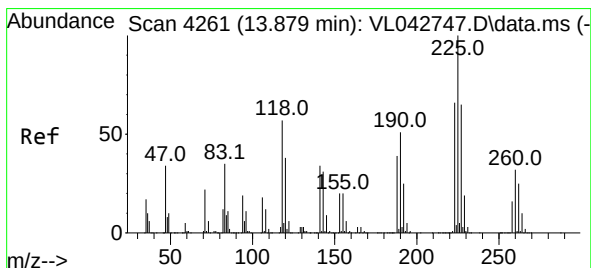
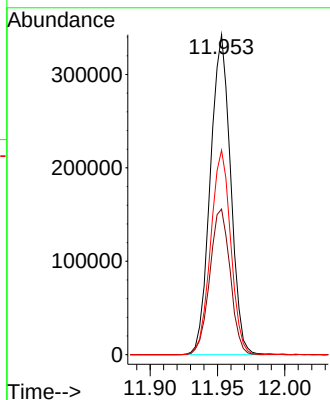
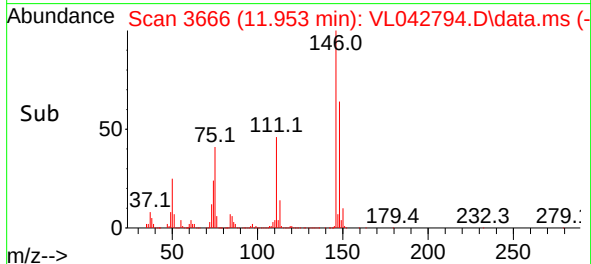
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01



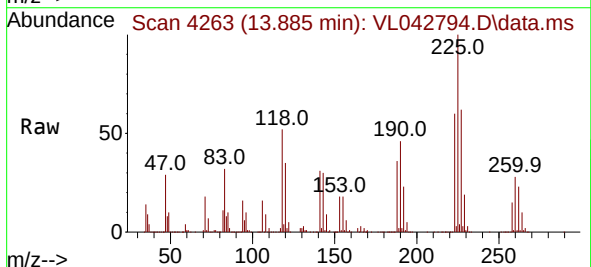
Tgt Ion:146 Resp: 357874
Ion Ratio Lower Upper
146 100
111 46.0 23.7 71.1
148 63.4 32.6 97.7

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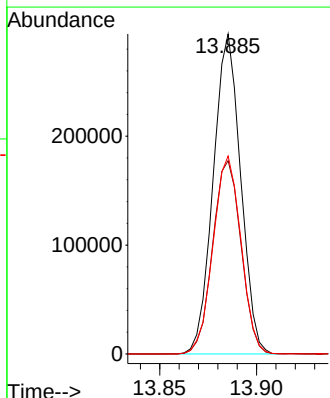
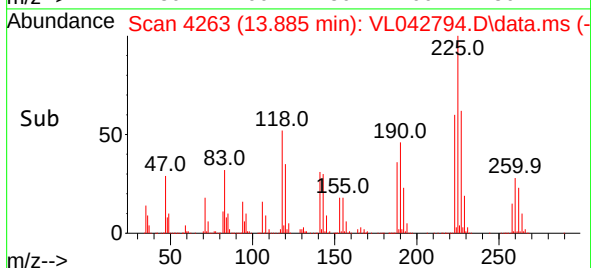
Reviewed By :Semsettin Yesilyurt 08/01/2025
Supervised By :Mahesh Dadoda 08/01/2025

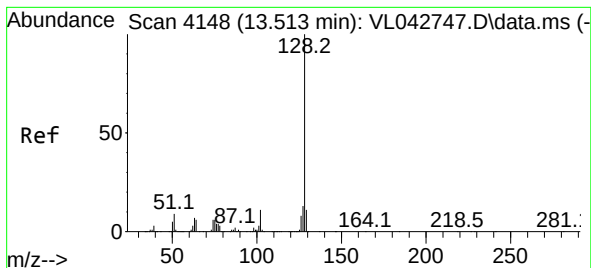


#78
Hexachloro-1,3-Butadiene
Concen: 9.863 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55



Tgt Ion:225 Resp: 289316
Ion Ratio Lower Upper
225 100
223 62.5 50.7 76.1
227 63.1 50.5 75.7





#79

Naphthalene

Concen: 10.791 ppbv

RT: 13.516 min Scan# 4148

Delta R.T. 0.003 min

Lab File: VL042794.D

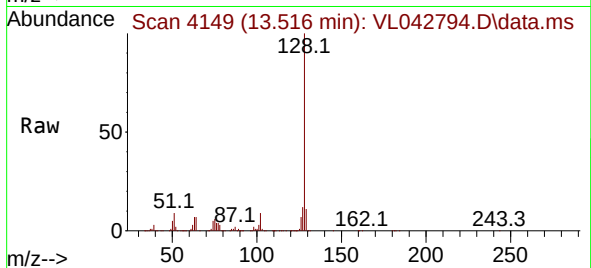
Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01



Tgt Ion:128 Resp: 552592

Ion Ratio Lower Upper

128 100

127 12.3 10.5 15.7

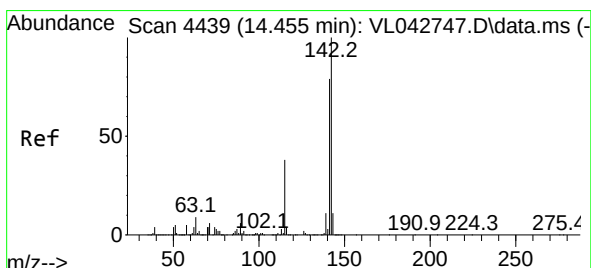
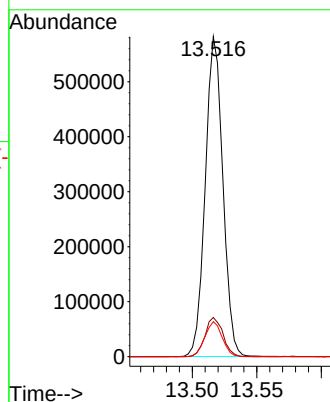
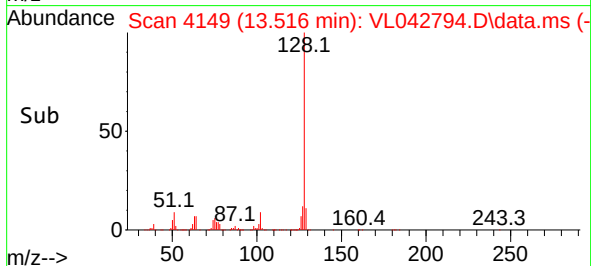
129 10.9 8.6 13.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/01/2025

Supervised By :Mahesh Dadoda 08/01/2025



#80

Naphthalene,2-methyl-

Concen: 8.445 ppbv

RT: 14.461 min Scan# 4441

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

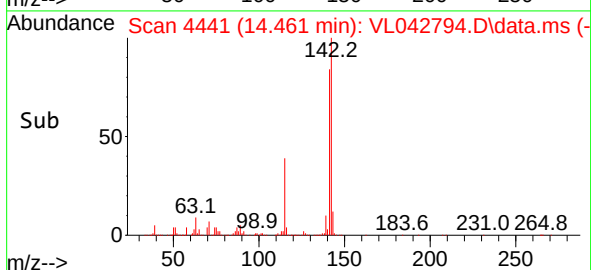
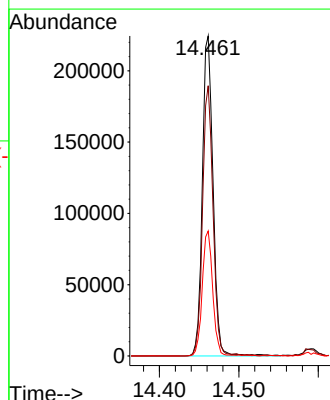
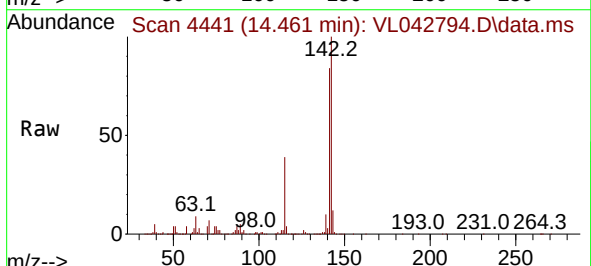
Tgt Ion:142 Resp: 210490

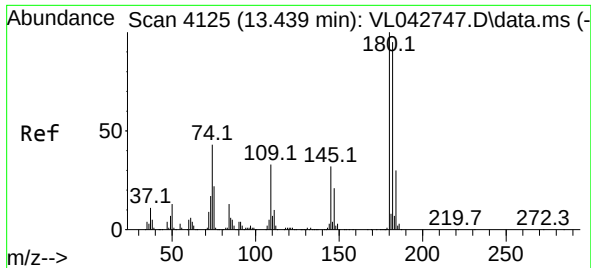
Ion Ratio Lower Upper

142 100

141 83.5 65.8 98.8

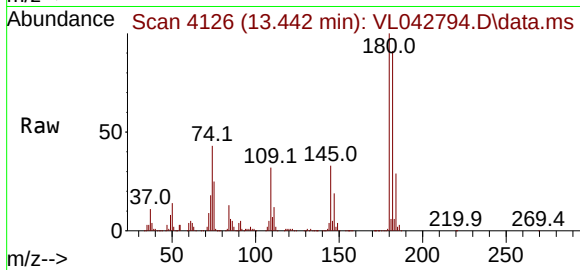
115 38.7 31.2 46.8





#81
 1,2,4-Trichlorobenzene
 Concen: 10.803 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

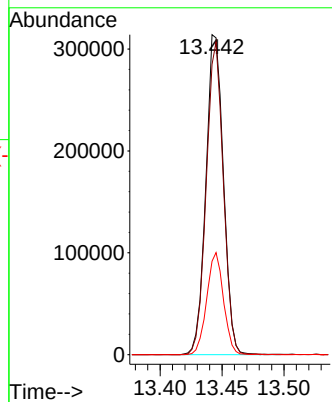
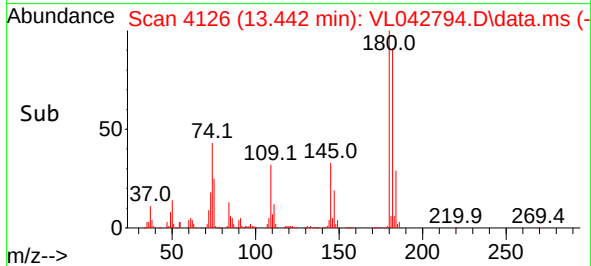
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01



Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.2	114.2
184	30.5	24.8	37.2

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Reviewed By :Semsettin Yesilyurt 08/01/2025
 Supervised By :Mahesh Dadoda 08/01/2025



Manual Integration Report

Sequence:	VL072325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042747.D	m/p-Xylene	SAM	7/24/2025 9:02:56 AM	MMDadoda	7/24/2025 2:20:57 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	1,4-Dioxane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	Cyclohexane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	Heptane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	m/p-Xylene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	trans-1,2-Dichloroethene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC001	VL042749.D	1,4-Dioxane	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICCC001	VL042749.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICCC001	VL042749.D	Bromodichloromethane	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL072325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL042749.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	Ethanol	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	Heptane	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	m/p-Xylene	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	Methyl Methacrylate	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	1,2-Dibromoethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	1,4-Dioxane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	2-Hexanone	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Benzyl Chloride	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Bromodichloromethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL072325

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042750.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Dibromochloromethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Ethanol	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Heptane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	m/p-Xylene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Methyl Methacrylate	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Tetrahydrofuran	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Trichloroethene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.03	VL042752.D	1,1,1-Trichloroethane	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software
VSTDICC0.03	VL042752.D	1,1,2,2-Tetrachloroethane	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software
VSTDICC0.03	VL042752.D	Carbon Tetrachloride	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software
VSTDICC0.03	VL042752.D	Tetrachloroethene	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL072325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.03	VL042752.D	Trichloroethene	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software
VSTDICC015	VL042753.D	m/p-Xylene	SAM	7/24/2025 9:03:41 AM	MMDadoda	7/24/2025 2:21:10 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	1,1,2,2-Tetrachloroethane	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	1,2-Dibromoethane	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	Carbon Tetrachloride	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	Tetrachloroethene	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	Trichloroethene	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICV010	VL042755.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:15 AM	MMDadoda	7/24/2025 2:21:15 PM	Peak Integrated by Software
VSTDICV010	VL042755.D	m/p-Xylene	SAM	7/24/2025 9:03:15 AM	MMDadoda	7/24/2025 2:21:15 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL073125

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042788.D	m/p-Xylene	SAM	8/1/2025 10:51:05 AM	MMDadoda	8/1/2025 4:16:30 PM	Peak Integrated by Software
VL0731ABS01	VL042790.D	m/p-Xylene	SAM	8/1/2025 10:51:10 AM	MMDadoda	8/1/2025 4:16:31 PM	Peak Integrated by Software
VL0731ABSD01	VL042794.D	m/p-Xylene	SAM	8/1/2025 10:51:25 AM	MMDadoda	8/1/2025 4:16:38 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042842.D	m/p-Xylene	SAM	8/14/2025 7:48:06 AM	MMDadoda	8/18/2025 8:42:07 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	1,1,2-Trichloroethane	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	1,4-Dioxane	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	Ethanol	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	m/p-Xylene	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	Methyl Methacrylate	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	1,2-Dichloropropane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	1,4-Dioxane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	2,2,4-Trimethylpentane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	Ethanol	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	Heptane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	m/p-Xylene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL042844.D	Methyl Methacrylate	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC001	VL042844.D	t-1,3-Dichloropropene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC001	VL042844.D	trans-1,2-Dichloroethene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	1,1,2-Trichloroethane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	1,4-Dioxane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	2,2,4-Trimethylpentane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	4-Methyl-2-Pentanone	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	m/p-Xylene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	Methyl Methacrylate	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	t-1,3-Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	Toluene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	1,1,1-Trichloroethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC0.1	VL042846.D	1,2-Dibromoethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDIC0.1	VL042846.D	Naphthalene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDIC0.1	VL042846.D	Tetrachloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDIC0.1	VL042846.D	Trichloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDIC0.03	VL042847.D	1,1,1-Trichloroethane	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDIC0.03	VL042847.D	1,1,2,2-Tetrachloroethane	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDIC0.03	VL042847.D	Carbon Tetrachloride	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDIC0.03	VL042847.D	Tetrachloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDIC0.03	VL042847.D	Trichloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDIC015	VL042848.D	m/p-Xylene	SAM	8/14/2025 7:49:35 AM	MMDadoda	8/18/2025 8:42:35 AM	Peak Integrated by Software
VSTDICV010	VL042849.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrated by Software
VSTDICV010	VL042849.D	m/p-Xylene	SAM	8/14/2025 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrated by Software
VL0813ABS01	VL042851.D	1,4-Dioxane	SAM	8/14/2025 7:49:08 AM	MMDadoda	8/18/2025 8:42:38 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VL0813ABS01	VL042851.D	m/p-Xylene	SAM	8/14/2025 7:49:08 AM	MMDadoda	8/18/2025 8:42:38 AM	Peak Integrated by Software
VSTDCCC010	VL042864.D	m/p-Xylene	SAM	8/14/2025 7:47:54 AM	MMDadoda	8/18/2025 8:43:18 AM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL072325

Review By	Semsettin Yesilyurt	Review On	7/24/2025 9:04:14 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/24/2025 2:21:30 PM		
SubDirectory	VL072325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL072325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2645			
Initial Calibration Stds		AP2641,AP2642,AP2643			
CCC		AP2641			
Internal Standard/PEM		AP2645			
ICV/I.BLK		AP2644			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042746.D	23 Jul 2025 08:00	SY/MD	Ok
2	VSTDICCC010	VL042747.D	23 Jul 2025 08:58	SY/MD	Ok,M
3	VSTDICCC002	VL042748.D	23 Jul 2025 09:34	SY/MD	Ok,M
4	VSTDICCC001	VL042749.D	23 Jul 2025 10:08	SY/MD	Ok,M
5	VSTDICCC0.5	VL042750.D	23 Jul 2025 10:42	SY/MD	Ok,M
6	VSTDICCC0.1	VL042751.D	23 Jul 2025 11:16	SY/MD	Not Ok
7	VSTDICCC0.03	VL042752.D	23 Jul 2025 11:50	SY/MD	Ok,M
8	VSTDICCC015	VL042753.D	23 Jul 2025 12:26	SY/MD	Ok,M
9	VSTDICCC0.1	VL042754.D	23 Jul 2025 13:00	SY/MD	Ok,M
10	VSTDICCV010	VL042755.D	23 Jul 2025 14:33	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL073125

Review By	Semsettin Yesilyurt	Review On	8/1/2025 8:24:15 AM		
Supervise By	Maresh Dadoda	Supervise On	8/1/2025 4:16:51 PM		
SubDirectory	VL073125	HP Acquire Method	TO15AIR.M	HP Processing Method	VL072325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2645			
Initial Calibration Stds		AP2641,AP2642,AP2643			
CCC		AP2641			
Internal Standard/PEM		AP2645			
ICV/I.BLK		AP2644			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042787.D	31 Jul 2025 07:46	SY/MD	Ok
2	VSTDCCC010	VL042788.D	31 Jul 2025 08:37	SY/MD	Ok,M
3	VL0731ABL01	VL042789.D	31 Jul 2025 09:29	SY/MD	Ok
4	VL0731ABS01	VL042790.D	31 Jul 2025 10:15	SY/MD	Ok,M
5	Q2727-01	VL042791.D	31 Jul 2025 12:03	SY/MD	Dilution
6	Q2727-01DL	VL042792.D	31 Jul 2025 12:39	SY/MD	Dilution
7	Q2727-01DL2	VL042793.D	31 Jul 2025 13:15	SY/MD	Not Ok
8	VL0731ABSD01	VL042794.D	31 Jul 2025 13:55	SY/MD	Ok,M

M : Manual Integration

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	Mahesh 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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL072325

Review By	Semsettin Yesilyurt	Review On	7/24/2025 9:04:14 AM
Supervise By	Maresh Dadoda	Supervise On	7/24/2025 2:21:30 PM
SubDirectory	VL072325	HP Acquire Method	TO15AIR.M HP Processing Method VL072325AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2645
Initial Calibration Stds	AP2641,AP2642,AP2643
CCC	AP2641
Internal Standard/PEM	AP2645
ICV/I.BLK	AP2644
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042746.D	23 Jul 2025 08:00		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042747.D	23 Jul 2025 08:58		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042748.D	23 Jul 2025 09:34		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042749.D	23 Jul 2025 10:08	Comp. #13,79,80,81 are on Linear Regression	SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042750.D	23 Jul 2025 10:42		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042751.D	23 Jul 2025 11:16	Not used	SY/MD	Not Ok
7	VSTDICC0.03	VSTDICC0.03	VL042752.D	23 Jul 2025 11:50		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042753.D	23 Jul 2025 12:26	%D failed for Comp. #80 in 0.5 and 2 ppb	SY/MD	Ok,M
9	VSTDICC0.1	VSTDICC0.1	VL042754.D	23 Jul 2025 13:00	%D failed for Comp. #79 in 0.1 ppb	SY/MD	Ok,M
10	VSTDICV010	ICVVVL072325	VL042755.D	23 Jul 2025 14:33		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL073125

Review By	Semsettin Yesilyurt	Review On	8/1/2025 8:24:15 AM
Supervise By	Maresh Dadoda	Supervise On	8/1/2025 4:16:51 PM
SubDirectory	VL073125	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL072325AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2645		
Initial Calibration Stds	AP2641,AP2642,AP2643		
CCC	AP2641		
Internal Standard/PEM	AP2645		
ICV/I.BLK	AP2644		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042787.D	31 Jul 2025 07:46		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042788.D	31 Jul 2025 08:37		SY/MD	Ok,M
3	VL0731ABL01	VL0731ABL01	VL042789.D	31 Jul 2025 09:29		SY/MD	Ok
4	VL0731ABS01	VL0731ABS01	VL042790.D	31 Jul 2025 10:15		SY/MD	Ok,M
5	Q2727-01	AE073-1100	VL042791.D	31 Jul 2025 12:03	Need 2X	SY/MD	Dilution
6	Q2727-01DL	AE073-1100DL	VL042792.D	31 Jul 2025 12:39	Need 4X	SY/MD	Dilution
7	Q2727-01DL2	AE073-1100DL2	VL042793.D	31 Jul 2025 13:15	rerun not match orginal	SY/MD	Not Ok
8	VL0731ABSD01	VL0731ABSD01	VL042794.D	31 Jul 2025 13:55		SY/MD	Ok,M

M : Manual Integration

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	Mahesh 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	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042841.D	13 Aug 2025 07:45		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042842.D	13 Aug 2025 08:30		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042843.D	13 Aug 2025 09:06		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042844.D	13 Aug 2025 09:41		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042845.D	13 Aug 2025 10:17		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042846.D	13 Aug 2025 10:53		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042847.D	13 Aug 2025 11:30		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042848.D	13 Aug 2025 12:06		SY/MD	Ok,M
9	VSTDICV010	ICVVL081325	VL042849.D	13 Aug 2025 12:56		SY/MD	Ok,M
10	VL0813ABL01	VL0813ABL01	VL042850.D	13 Aug 2025 13:46		SY/MD	Ok
11	VL0813ABS01	VL0813ABS01	VL042851.D	13 Aug 2025 14:32		SY/MD	Ok,M
12	Q2727-01DL2	AE073-1100DL2	VL042852.D	13 Aug 2025 15:10		SY/MD	Ok
13	Q2126-14 0.1 PPB LOC	LOQ-AIR-02-QT2-2025	VL042853.D	13 Aug 2025 15:49		SY/MD	Ok,M
14	QC080725 CAN10282	QC080725 CAN10282	VL042854.D	13 Aug 2025 16:27		SY/MD	Ok
15	Q2794-01	IA1	VL042855.D	13 Aug 2025 17:05	Need 10X	SY/MD	Dilution
16	Q2794-01DUP	IA1DUP	VL042856.D	13 Aug 2025 17:43		SY/MD	Ok,M
17	Q2794-01DL	IA1DL	VL042857.D	13 Aug 2025 18:21		SY/MD	Ok,M
18	Q2794-02	OA1	VL042858.D	13 Aug 2025 18:58		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	Mahesh 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					

19	Q2794-02DL	OA1DL	VL042859.D	13 Aug 2025 19:35	Not Required	SY/MD	Not Ok
20	QC081125 CAN 10280	QC081125 CAN 10280	VL042860.D	13 Aug 2025 20:12		SY/MD	Ok
21	Q2834-01	IA1	VL042861.D	13 Aug 2025 20:49		SY/MD	Ok,M
22	Q2834-02	SV1	VL042862.D	13 Aug 2025 21:26		SY/MD	Ok,M
23	Q2834-02DL	SV1DL	VL042863.D	13 Aug 2025 22:02	Not Required	SY/MD	Not Ok
24	VSTDCCC010	VSTDCCC010EC	VL042864.D	13 Aug 2025 22:39		SY/MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q2727

Test : VOCMS Group3

Prepbatch ID :

Sequence ID/Qc Batch ID: VL073125,VL081325,

Standard ID :

AP2641,AP2642,AP2643,AP2644,AP2645,AP2650,AP2652,AP2653,AP2654,AP2655,

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	AP2641	07/16/2025	08/16/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/28/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1140 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2397	TO-15 -2 PPBV CAL.MIX	AP2642	07/16/2025	08/16/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/28/2025

FROM 26.00000psi of A1117 + 4.00000psi of AP2641 = Final Quantity: 30.000 psi

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2668	0.5 PPBV CAL.MIX	AP2643	07/16/2025	08/16/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
07/28/2025								

FROM 29.00000psi of A1117 + 1.00000psi of AP2641 = 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	AP2644	07/16/2025	08/16/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
07/28/2025								

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1139 = Final Quantity: 30.000 psi

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
47	Internal Standard/Surrogate Mix-80 ppbv	AP2645	07/22/2025	08/23/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/28/2025

FROM 2.40000psi of A1138 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2396	TO-15 15 PPBV CAL MIX	AP2650	08/11/2025	09/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/20/2025

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	AP2652	08/11/2025	09/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/20/2025

FROM 26.00000psi of A1117 + 4.00000psi of AP2650 = 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	AP2653	08/11/2025	09/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/20/2025

FROM 29.00000psi of A1117 + 1.00000psi of AP2650 = Final Quantity: 30.000 psi

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2396	TO-15 15 PPBV CAL MIX	AP2654	08/11/2025	09/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/20/2025

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>
47	Internal Standard/Surrogate Mix-80 ppbv	AP2655	08/13/2025	09/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/20/2025

FROM 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:

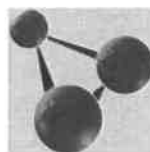
Signature:

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	

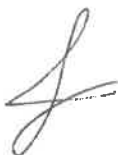
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

Signature:

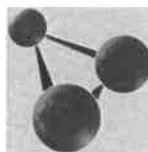
Date: 04/16/2025



*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	

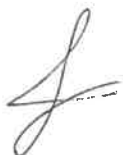
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do 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.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042747.D
 Acq On : 23 Jul 2025 08:58
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: Jul 24 04:56:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	159080	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	462763	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	422206	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	338271	10.117	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	190592	9.062	ppbv	100
3) Chlorodifluoromethane	1.476	51	258542	9.436	ppbv	100
4) Chloromethane	1.531	50	77006	9.050	ppbv	100
5) Vinyl Chloride	1.580	62	65346	7.773	ppbv	100
6) Bromomethane	1.667	94	28292	8.705	ppbv	100
7) Chloroethane	1.703	64	28085	8.646	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	155875	9.011	ppbv	100
9) Propene	1.483	41	94480	9.488	ppbv	100
10) Heptane	4.975	43	259821	9.701	ppbv	100
11) Trichlorofluoromethane	1.878	101	194964	8.992	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	149612	9.081	ppbv	100
13) Ethanol	1.719	45	7949	9.867	ppbv	97
14) Bromoethene	1.780	108	53625	9.193	ppbv	100
15) Acetone	1.835	43	158714	7.225	ppbv	100
16) 1,3-Butadiene	1.609	39	80968	8.642	ppbv	100
17) tert-Butyl alcohol	2.039	59	185262	9.351	ppbv	100
18) 1,1-Dichloroethene	2.033	96	64224	8.627	ppbv	100
19) Isopropyl Alcohol	1.884	45	104903	8.987	ppbv	100
20) Methylene Chloride	2.059	84	53581	7.740	ppbv	100
21) Allyl Chloride	2.094	41	127021	9.382	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	73152	9.148	ppbv	100
23) Vinyl Acetate	2.460	43	271125	10.181	ppbv	100
24) 1,1-Dichloroethane	2.408	63	150257	9.141	ppbv	100
25) Ethyl Acetate	2.832	43	469997	9.666	ppbv	100
26) Hexane	2.826	57	203800	9.555	ppbv	100
27) Carbon Disulfide	2.149	76	173105	9.480	ppbv	100
28) Methyl tert-Butyl Ether	2.437	73	88372	8.770	ppbv	100
29) Chloroform	2.845	83	304670	9.244	ppbv	100
30) Cyclohexane	3.852	84	178948	9.892	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	207751	9.479	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	311368	9.069	ppbv	100
34) 2-Butanone	2.554	43	306858	9.361	ppbv	100
35) Carbon Tetrachloride	3.758	117	324501	9.436	ppbv	100
36) Benzene	3.654	78	414863	9.459	ppbv	100
37) 1,2-Dichloroethane	3.217	62	248414	9.403	ppbv	100
38) Trichloroethene	4.545	130	188750	8.926	ppbv	100
39) 1,2-Dichloropropane	4.311	63	149771	9.251	ppbv	100
40) 1,4-Dioxane	4.580	88	65413	8.569	ppbv #	100
41) Tetrahydrofuran	3.049	42	167323	10.160	ppbv	100
42) Bromodichloromethane	4.483	83	334531	9.713	ppbv	100
43) Methyl Methacrylate	4.875	69	161053	10.331	ppbv	100
44) 2,2,4-Trimethylpentane	4.638	57	687885	9.623	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	185965	10.633	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042747.D
 Acq On : 23 Jul 2025 08:58
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

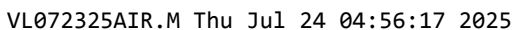
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

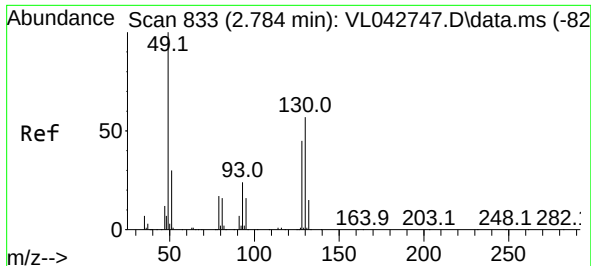
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 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	234594	10.587	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	160431	9.297	ppbv	100
48) Dibromochloromethane	7.383	129	277832	10.141	ppbv	100
49) Bromoform	9.480	173	244997	10.256	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	413966	9.914	ppbv	100
51) 2-Hexanone	7.432	43	336048	10.532	ppbv	100
52) Tetrachloroethene	8.225	164	156930	8.609	ppbv	100
53) Toluene	6.930	91	472953	10.042	ppbv	100
54) 1,2-Dibromoethane	7.648	107	238045	9.745	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	204205	9.302	ppbv	100
57) Chlorobenzene	8.920	112	371117	9.082	ppbv	100
58) Ethyl Benzene	9.354	91	655020	9.824	ppbv	100
59) m/p-Xylene	9.552	91	460477	8.639	ppbv #	11
60) o-Xylene	9.963	91	517292	9.715	ppbv	100
61) Styrene	9.869	104	236709	10.568	ppbv	100
62) Isopropylbenzene	10.539	105	757219	9.641	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	292568	8.434	ppbv	100
64) n-propylbenzene	10.989	120	198109	9.675	ppbv	100
65) tert-Butylbenzene	11.529	119	678174	9.721	ppbv	100
66) Benzyl Chloride	11.617	91	66954	11.691	ppbv	100
67) sec-Butylbenzene	11.765	105	939396	9.468	ppbv	100
69) p-Isopropyltoluene	11.924	119	814010	10.061	ppbv	100
70) n-Butylbenzene	12.280	91	818457	10.473	ppbv	100
71) 2-Chlorotoluene	10.898	91	584629	9.708	ppbv	100
72) 4-Ethyltoluene	11.125	105	643519	10.120	ppbv	100
73) 1,3,5-Trimethylbenzene	11.202	105	538451	10.285	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	584447	10.232	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	374587	9.355	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	378093	9.649	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	358206	9.102	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	300801	8.444	ppbv	100
79) Naphthalene	13.513	128	598108	9.665	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	289412	9.404	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	337776	9.710	ppbv	100

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

Quant Time: Jul 24 04:56:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

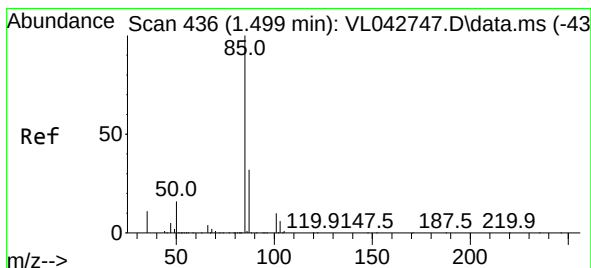
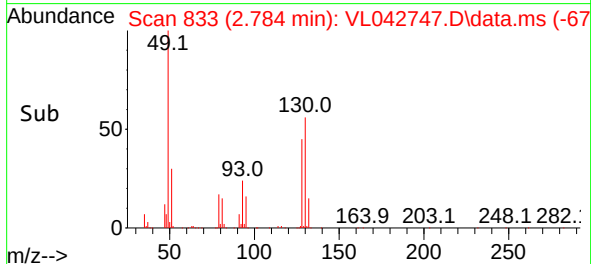
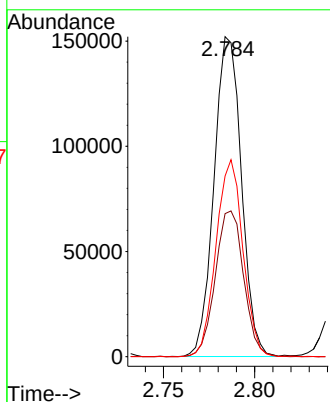
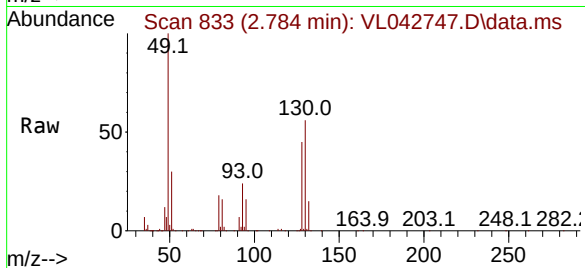




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

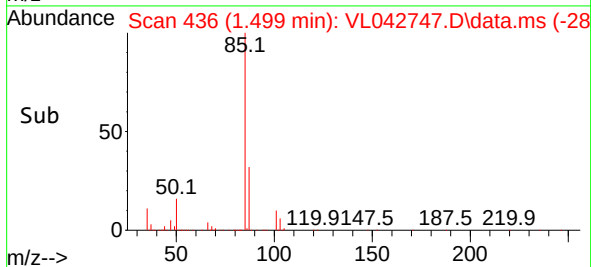
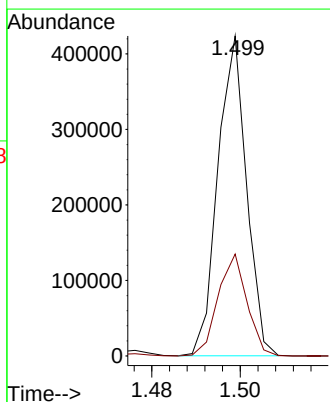
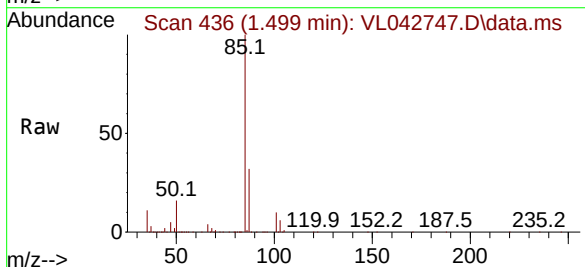
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

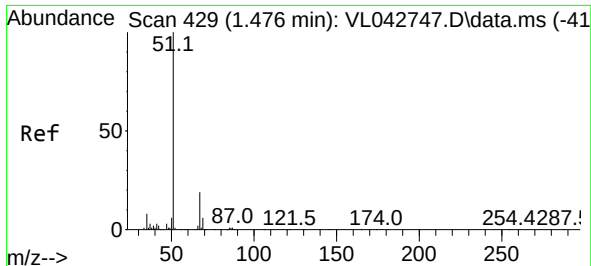
Tgt Ion: 49 Resp: 159080
Ion Ratio Lower Upper
49 100
128 47.3 23.6 71.0
130 60.5 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 9.062 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 85 Resp: 190592
Ion Ratio Lower Upper
85 100
87 31.8 25.4 38.2

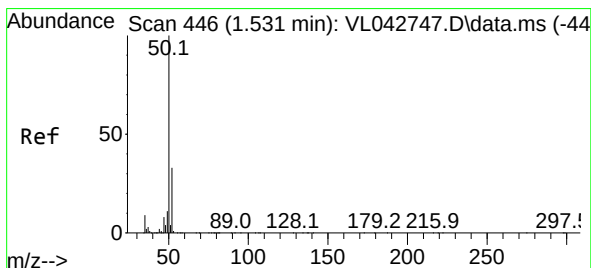
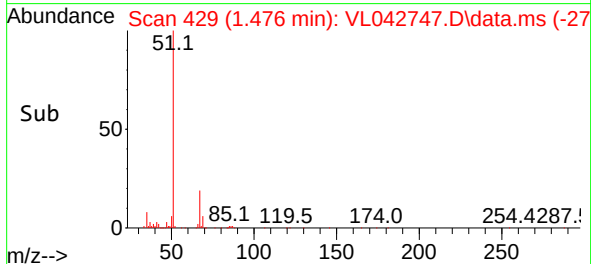
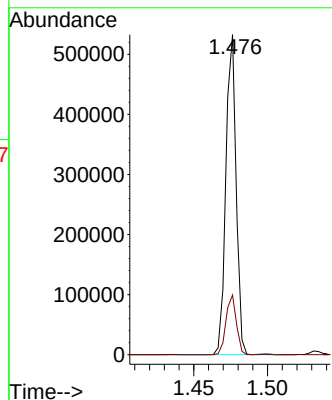
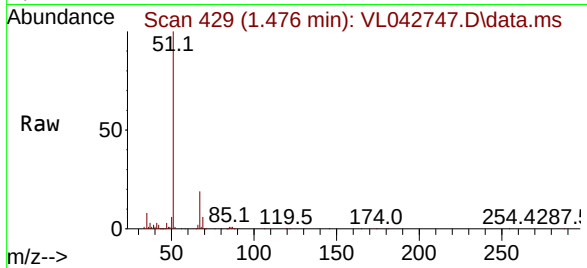




#3
Chlorodifluoromethane
Concen: 9.436 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

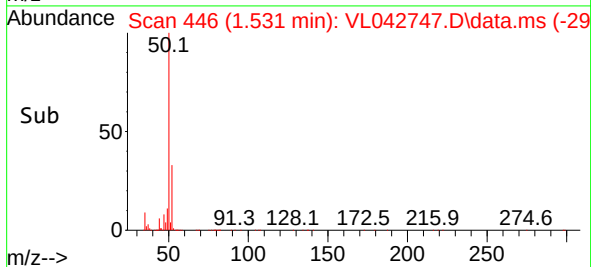
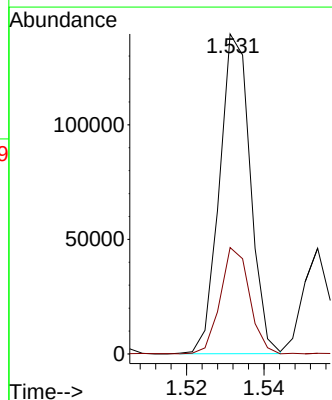
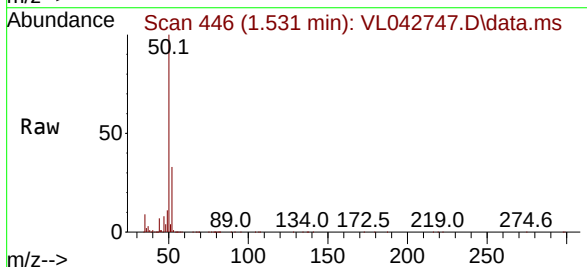
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ClientSampleId :
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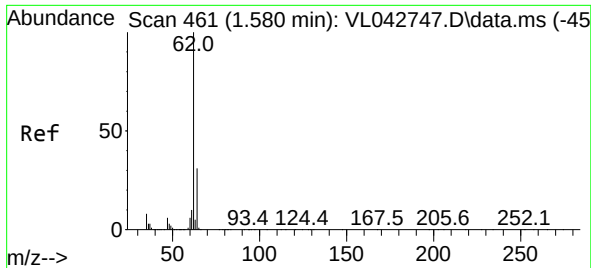
Tgt Ion: 51 Resp: 258542
Ion Ratio Lower Upper
51 100
67 18.8 15.0 22.6



#4
Chloromethane
Concen: 9.050 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 50 Resp: 77006
Ion Ratio Lower Upper
50 100
52 33.3 26.6 40.0

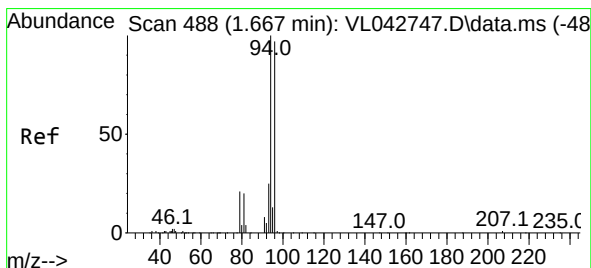
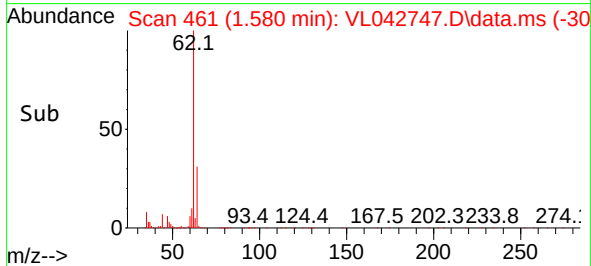
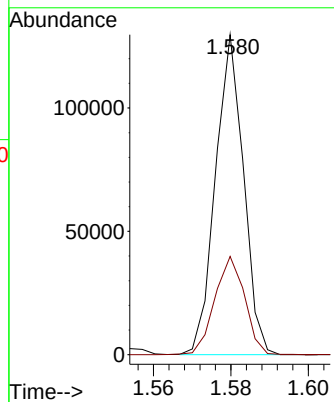
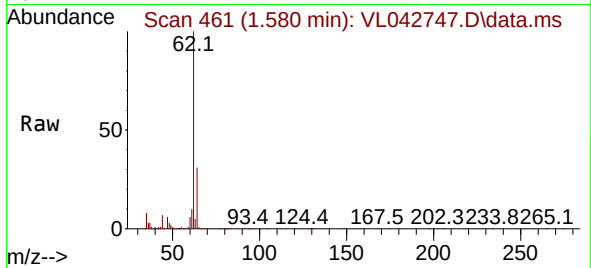




#5
 Vinyl Chloride
 Concen: 7.773 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

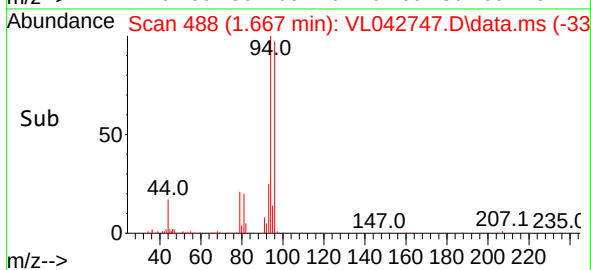
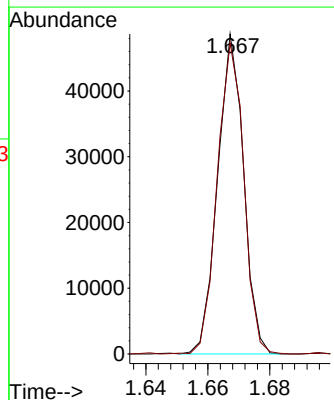
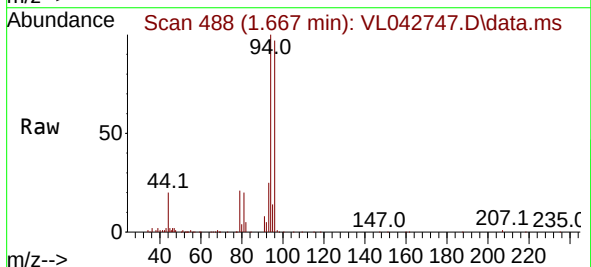
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

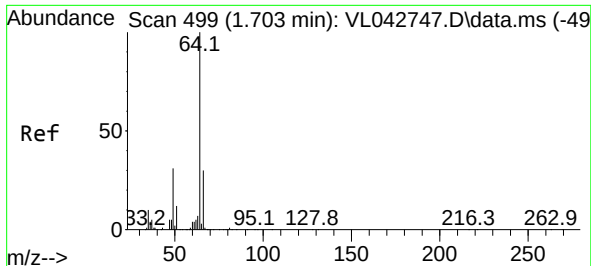
Tgt Ion: 62 Resp: 65346
 Ion Ratio Lower Upper
 62 100
 64 30.6 24.5 36.7



#6
 Bromomethane
 Concen: 8.705 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion: 94 Resp: 28292
 Ion Ratio Lower Upper
 94 100
 96 97.0 77.6 116.4

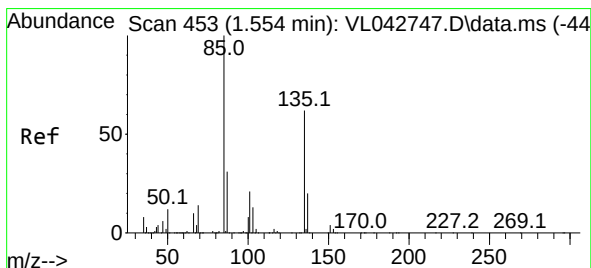
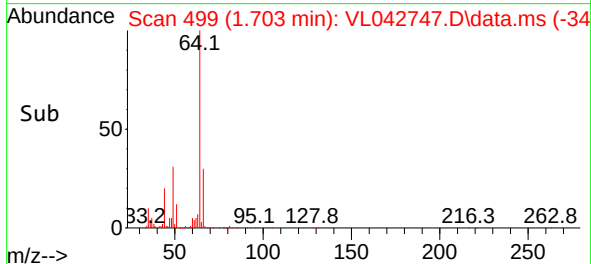
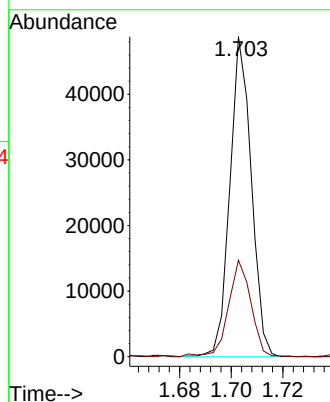
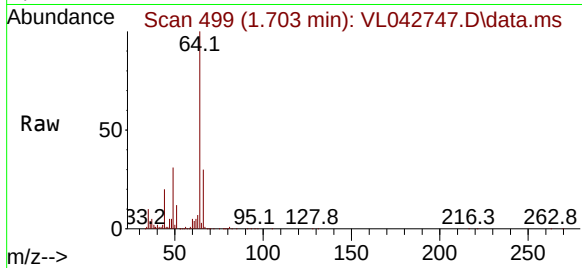




#7
Chloroethane
Concen: 8.646 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

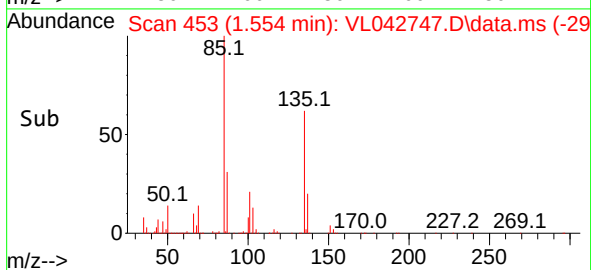
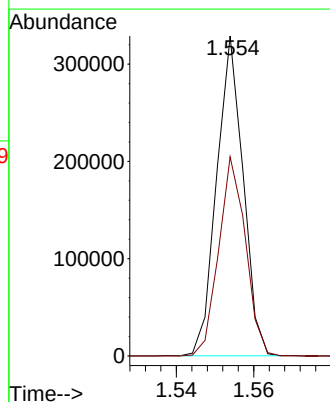
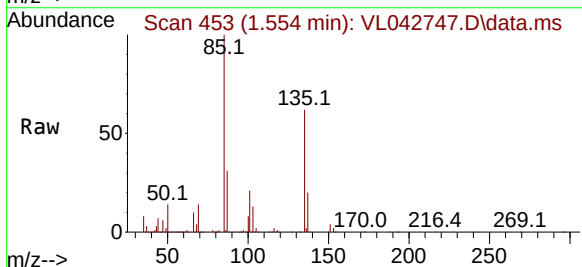
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

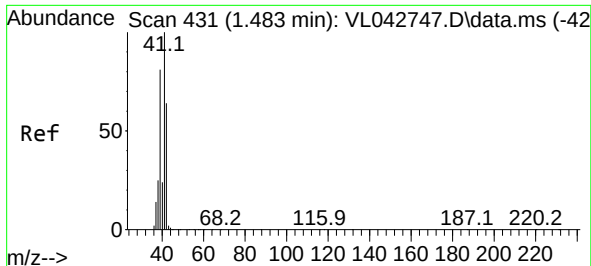
Tgt Ion: 64 Resp: 28085
Ion Ratio Lower Upper
64 100
66 30.1 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 9.011 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 85 Resp: 155875
Ion Ratio Lower Upper
85 100
135 63.3 50.6 76.0





#9

Propene

Concen: 9.488 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

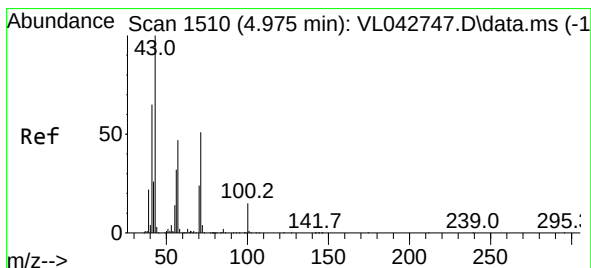
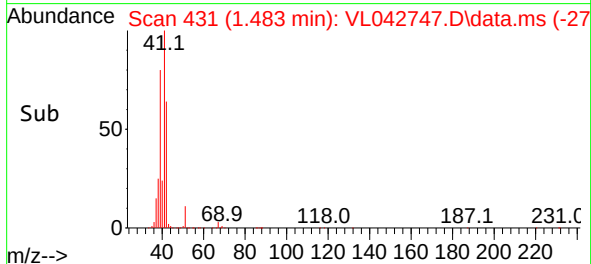
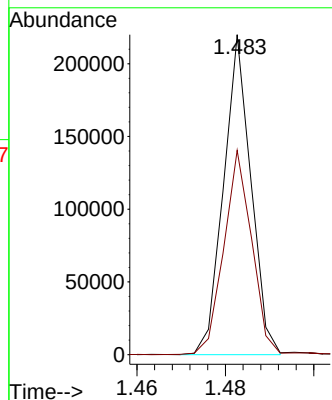
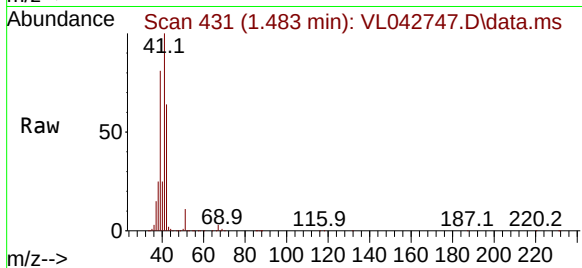
VSTDICCC010

Tgt Ion: 41 Resp: 94480

Ion Ratio Lower Upper

41 100

42 66.5 53.2 79.8



#10

Heptane

Concen: 9.701 ppbv

RT: 4.975 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VL042747.D

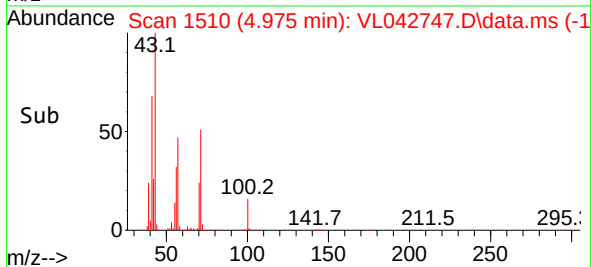
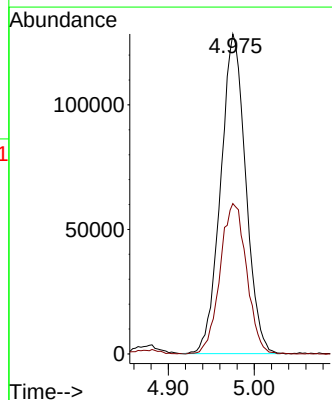
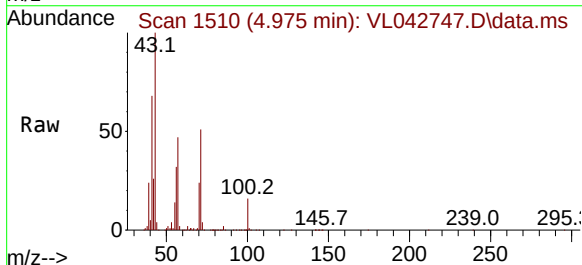
Acq: 23 Jul 2025 08:58

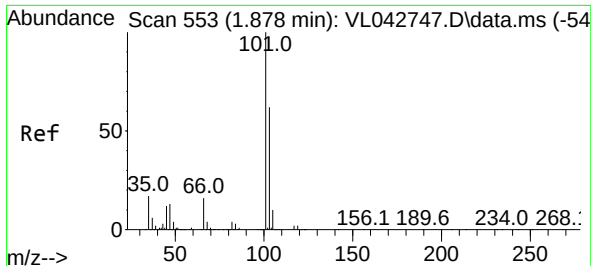
Tgt Ion: 43 Resp: 259821

Ion Ratio Lower Upper

43 100

57 49.9 39.9 59.9

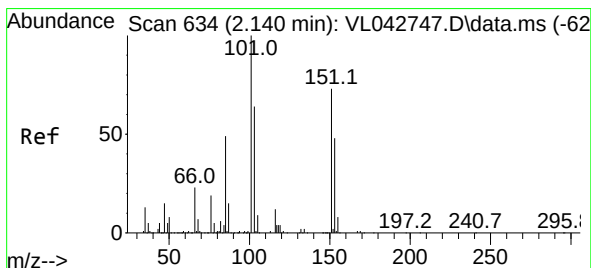
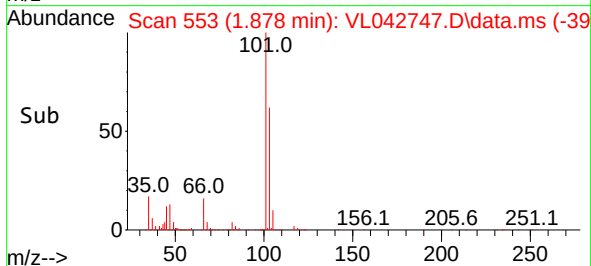
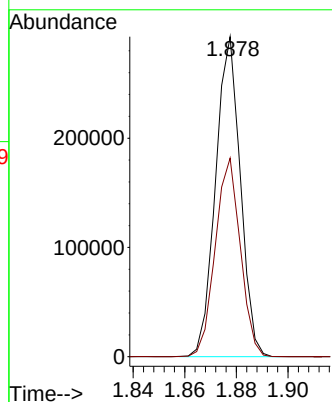
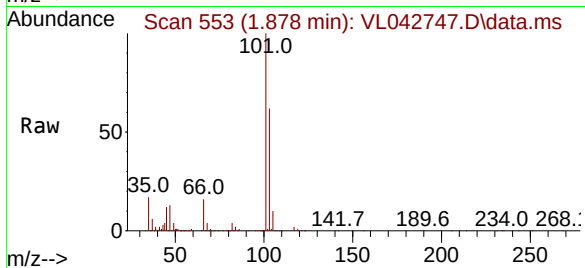




#11
 Trichlorofluoromethane
 Concen: 8.992 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

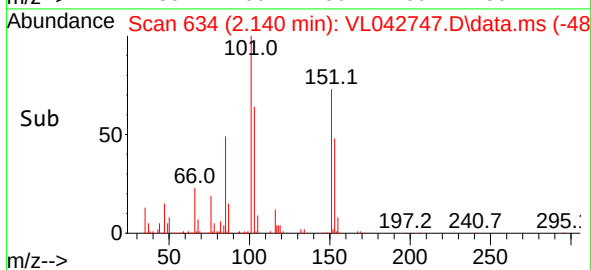
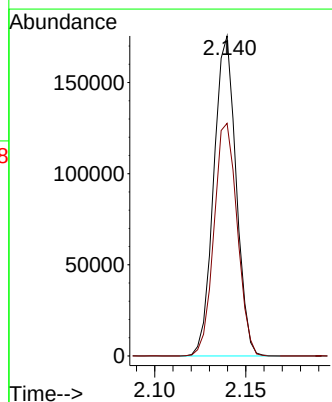
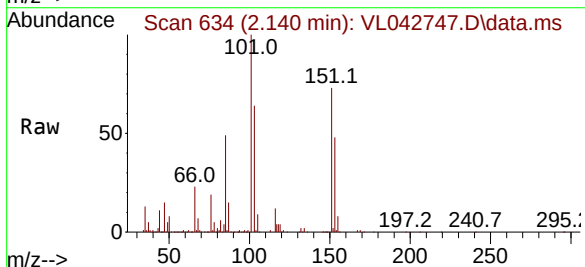
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

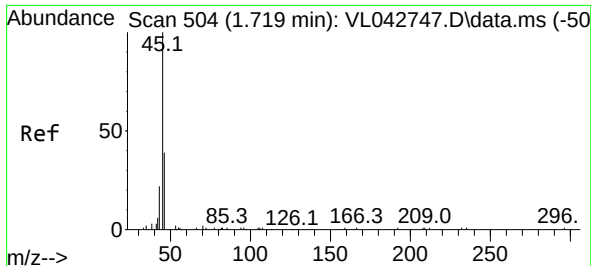
Tgt Ion:101 Resp: 194964
 Ion Ratio Lower Upper
 101 100
 103 62.0 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.081 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion:101 Resp: 149612
 Ion Ratio Lower Upper
 101 100
 151 75.6 60.5 90.7

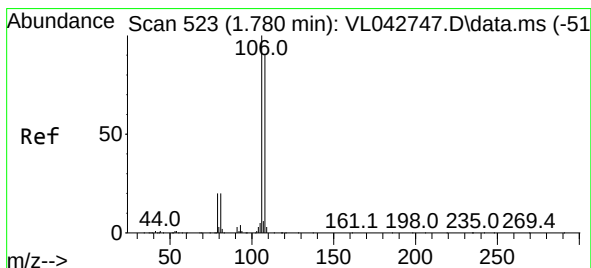
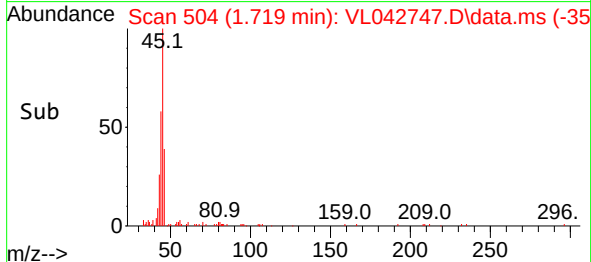
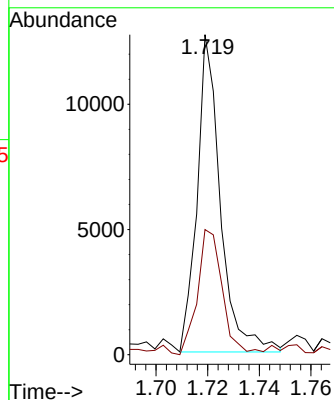
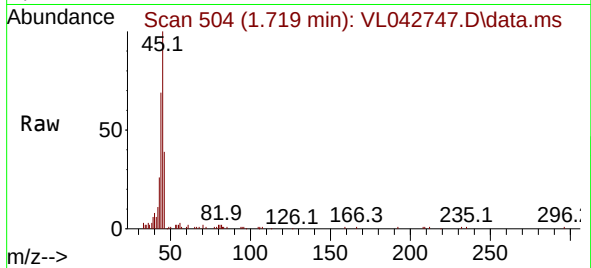




#13
Ethanol
Concen: 9.867 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

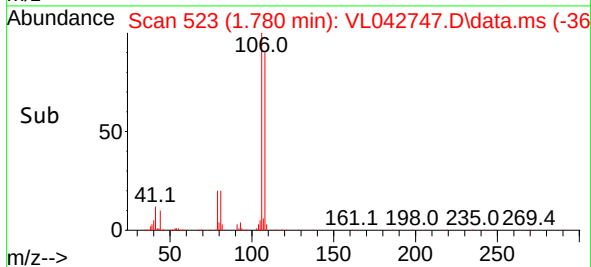
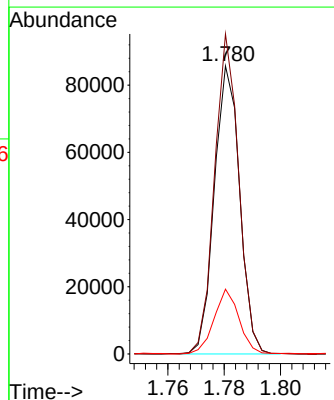
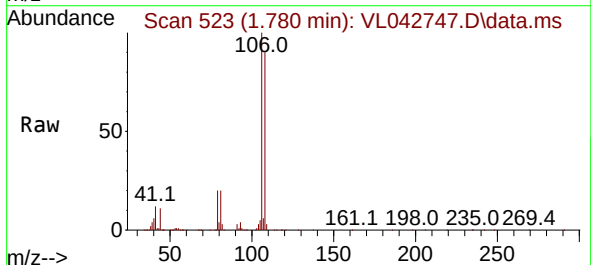
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

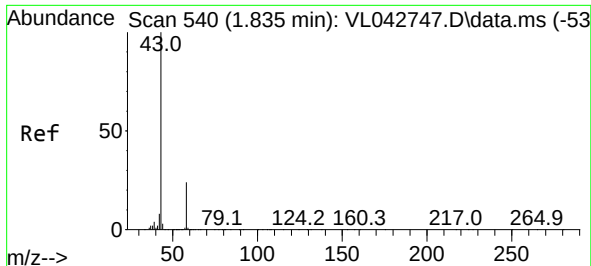
Tgt Ion: 45 Resp: 7949
Ion Ratio Lower Upper
45 100
46 46.5 17.8 71.4



#14
Bromoethene
Concen: 9.193 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 108 Resp: 53625
Ion Ratio Lower Upper
108 100
106 105.9 84.7 127.1
79 21.8 17.4 26.2

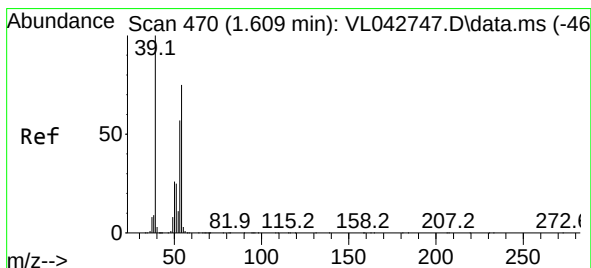
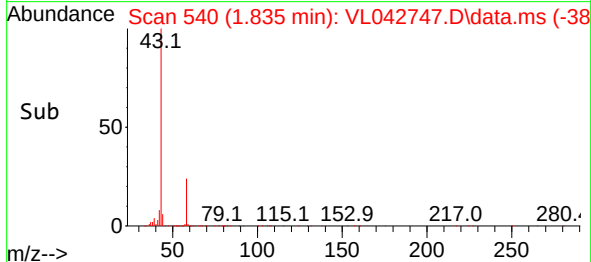
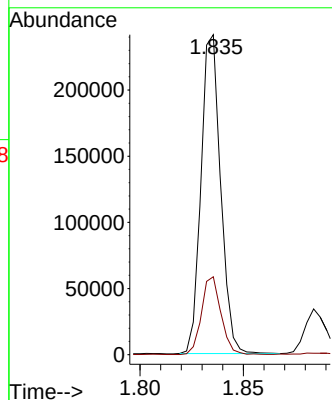
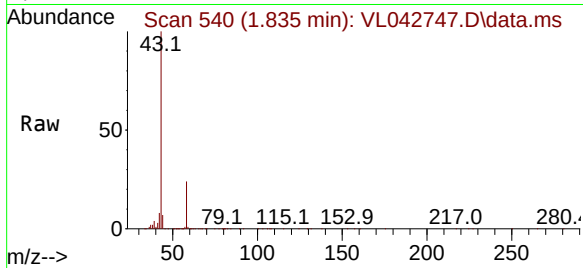




#15
Acetone
Concen: 7.225 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

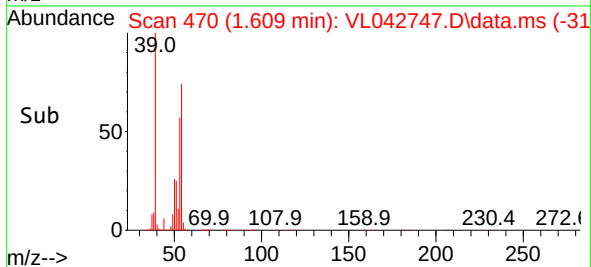
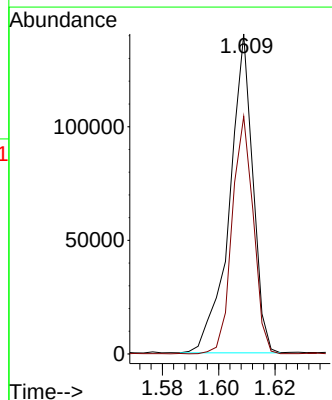
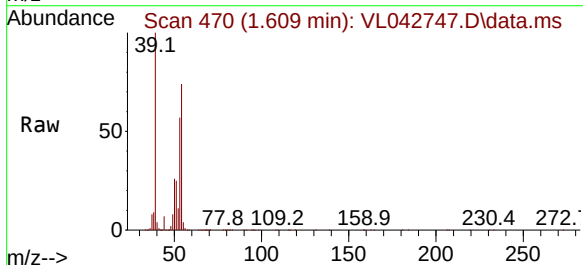
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

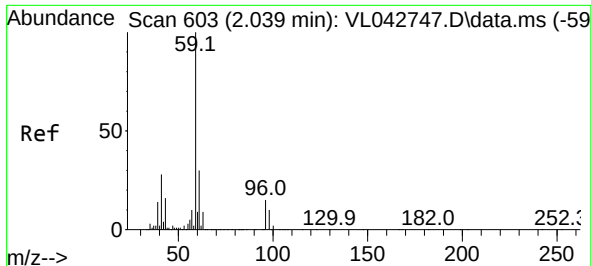
Tgt Ion: 43 Resp: 158714
Ion Ratio Lower Upper
43 100
58 24.8 19.8 29.8



#16
1,3-Butadiene
Concen: 8.642 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 39 Resp: 80968
Ion Ratio Lower Upper
39 100
54 68.1 54.5 81.7





#17

tert-Butyl alcohol

Concen: 9.351 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_1

ClientSampleId :

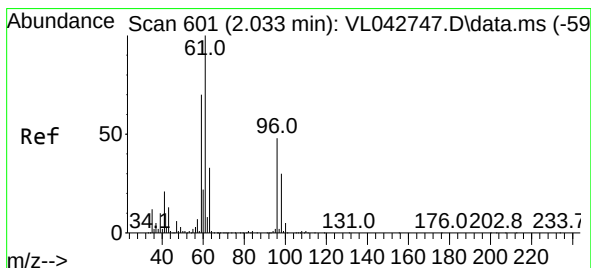
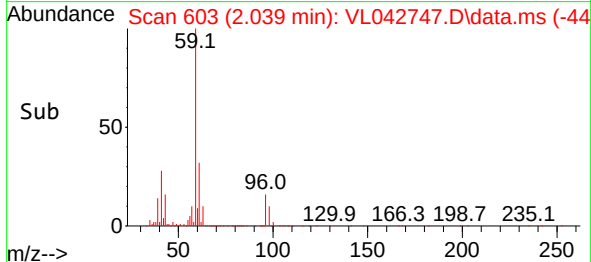
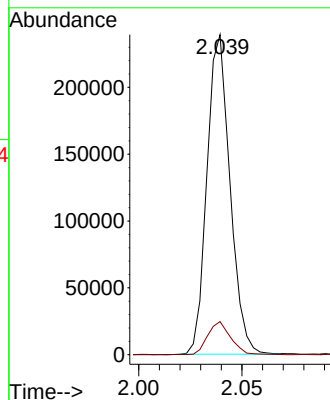
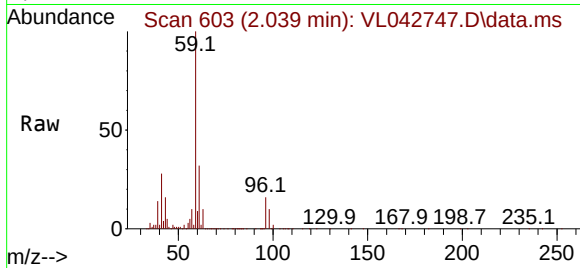
VSTDICCC010

Tgt Ion: 59 Resp: 185262

Ion Ratio Lower Upper

59 100

57 10.4 8.3 12.5



#18

1,1-Dichloroethene

Concen: 8.627 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

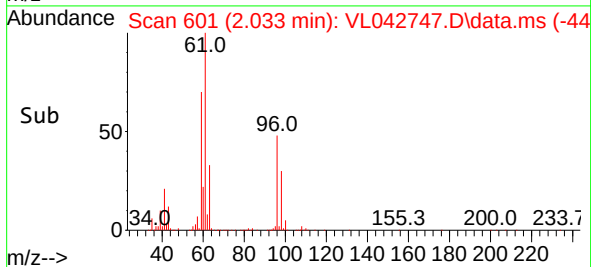
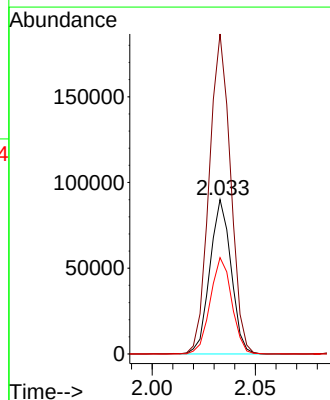
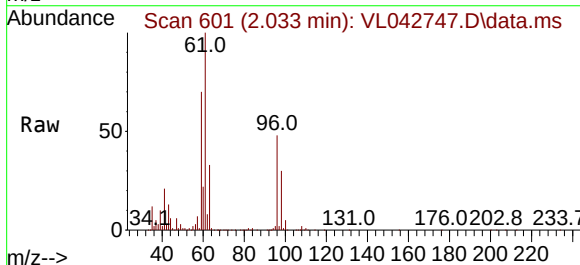
Tgt Ion: 96 Resp: 64224

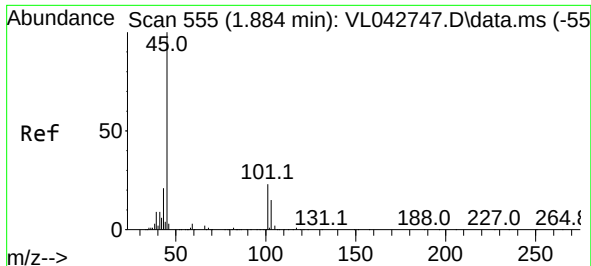
Ion Ratio Lower Upper

96 100

61 207.2 165.8 248.6

98 62.4 49.9 74.9

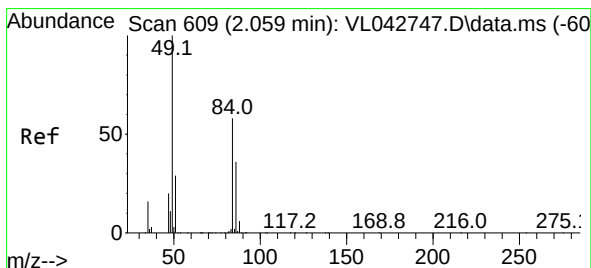
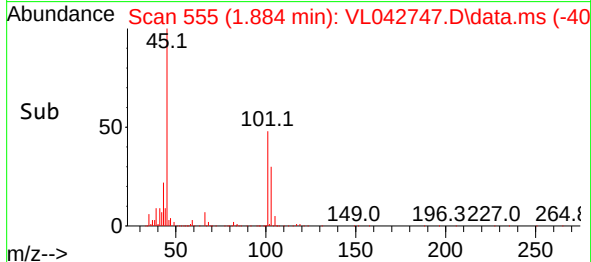
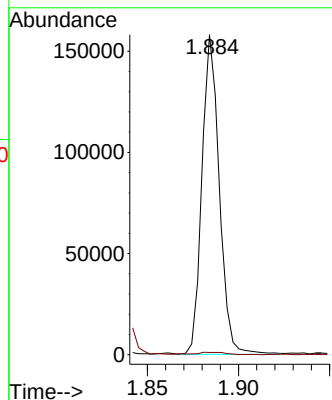
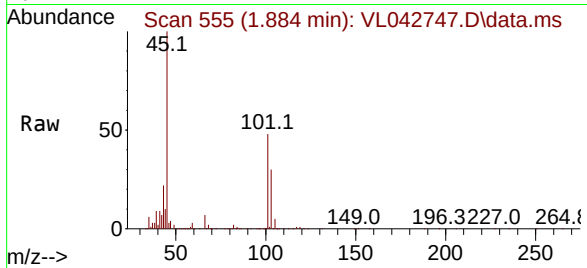




#19
Isopropyl Alcohol
Concen: 8.987 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

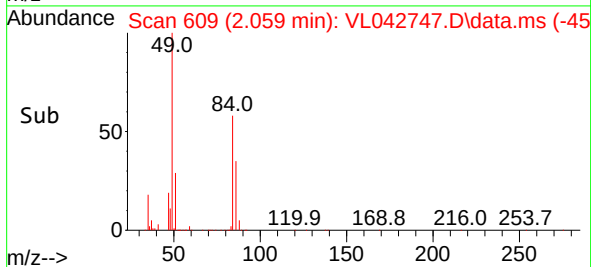
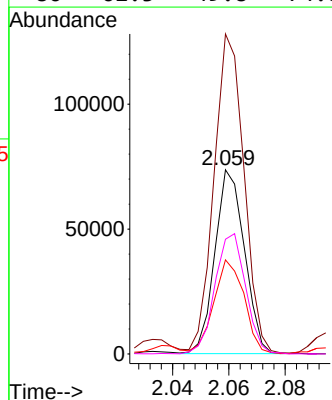
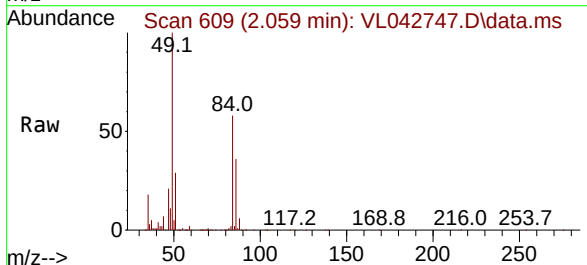
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

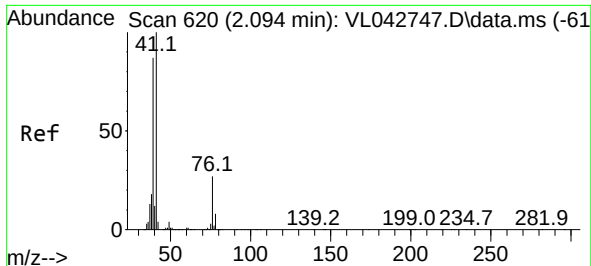
Tgt Ion: 45 Resp: 104903
Ion Ratio Lower Upper
45 100
58 37.5 30.0 45.0



#20
Methylene Chloride
Concen: 7.740 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 84 Resp: 53581
Ion Ratio Lower Upper
84 100
49 173.3 138.6 208.0
51 50.8 40.6 61.0
86 62.3 49.8 74.8

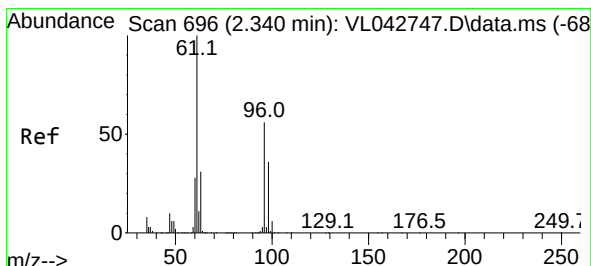
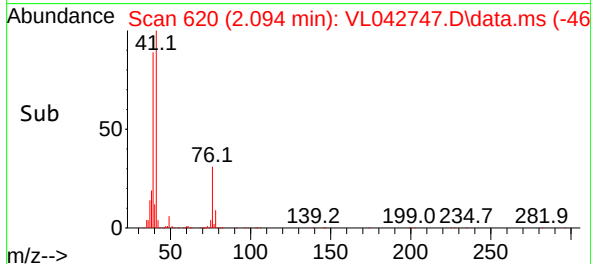
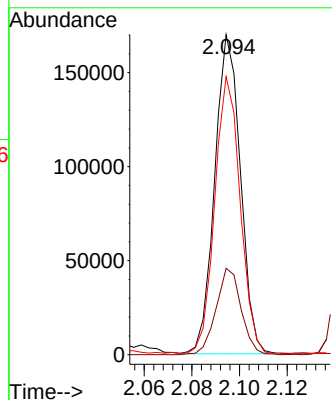
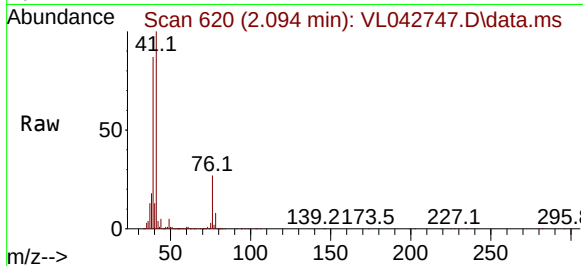




#21
 Allyl Chloride
 Concen: 9.382 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

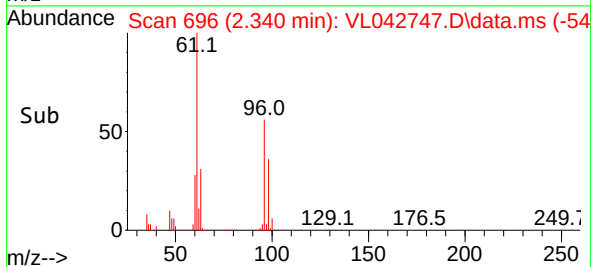
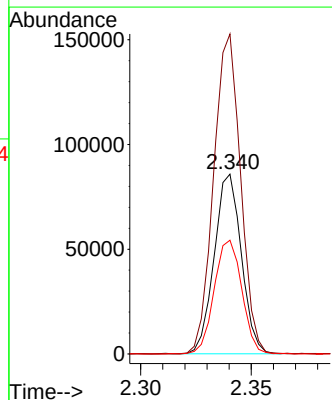
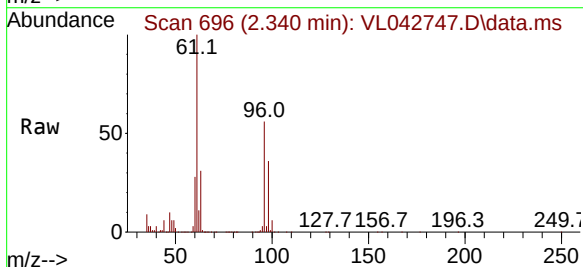
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

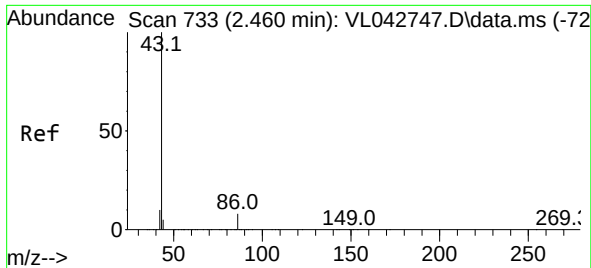
Tgt Ion: 41 Resp: 127021
 Ion Ratio Lower Upper
 41 100
 76 26.4 21.1 31.7
 39 85.4 68.3 102.5



#22
 trans-1,2-Dichloroethene
 Concen: 9.148 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion: 96 Resp: 73152
 Ion Ratio Lower Upper
 96 100
 61 177.9 142.3 213.5
 98 63.3 50.6 76.0



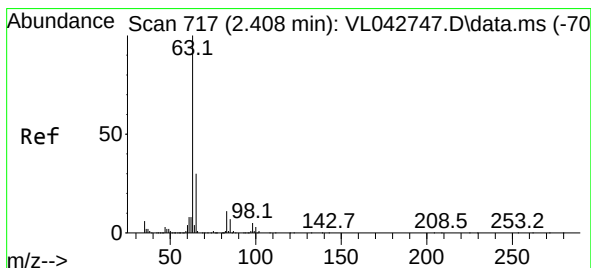
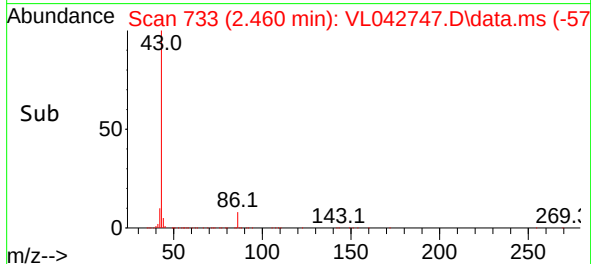
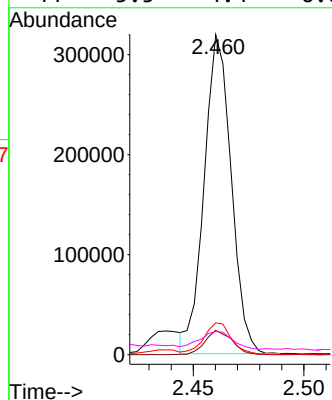
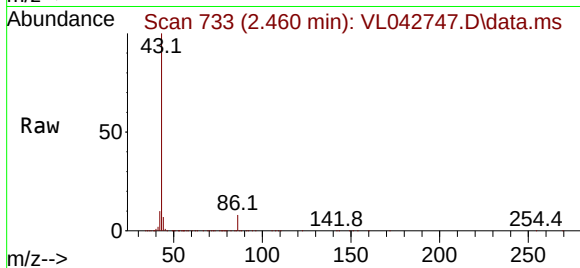


#23
 Vinyl Acetate
 Concen: 10.181 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 43 Resp: 271125

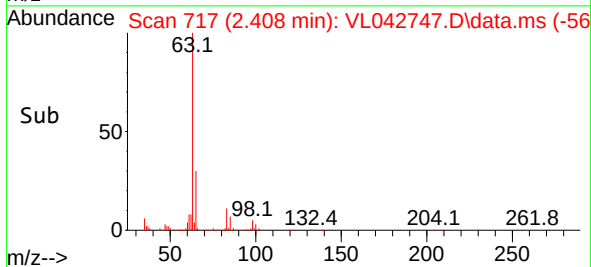
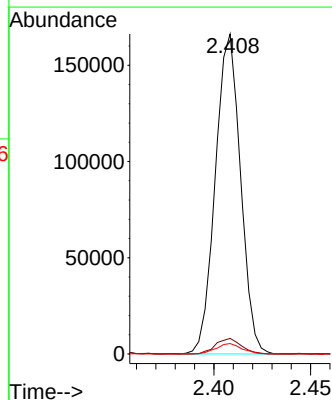
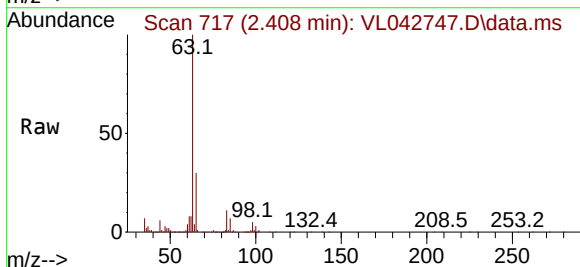
Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.1	9.1
42	9.8	7.8	11.8
44	5.5	4.4	6.6

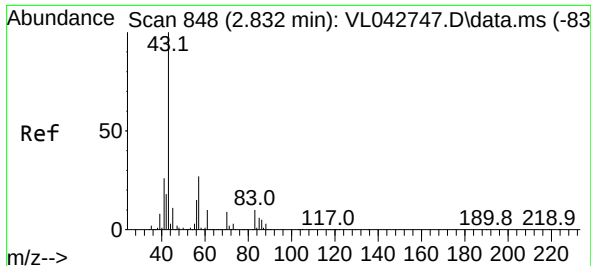


#24
 1,1-Dichloroethane
 Concen: 9.141 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion: 63 Resp: 150257

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.5	7.4
100	3.2	1.6	4.8



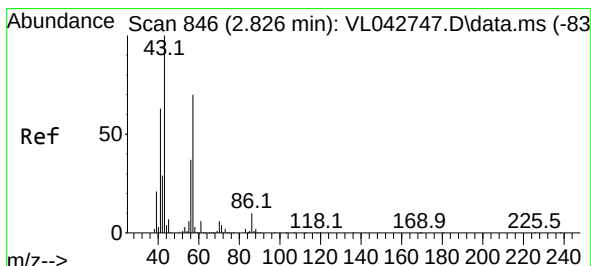
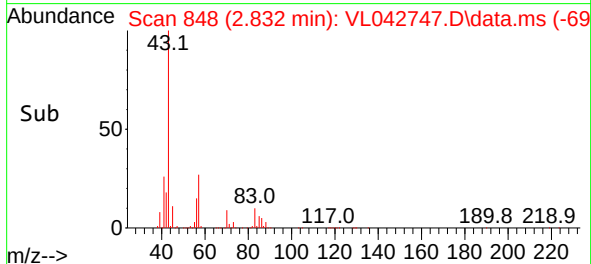
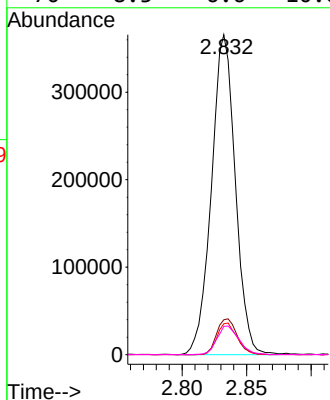
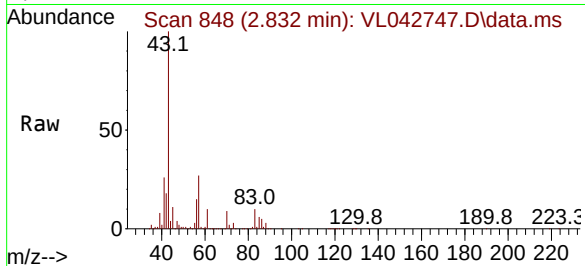


#25
Ethyl Acetate
Concen: 9.666 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 469997

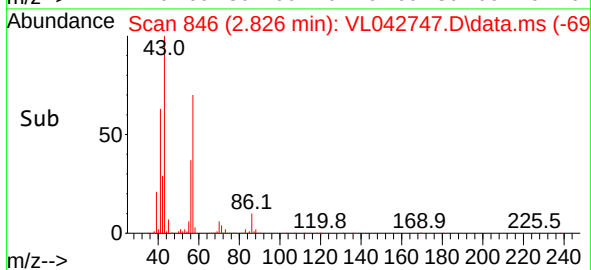
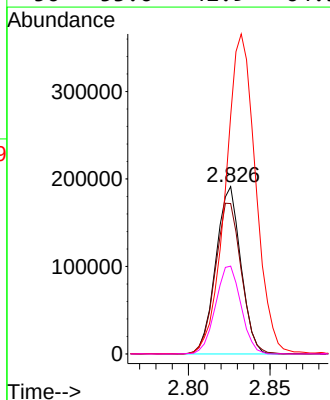
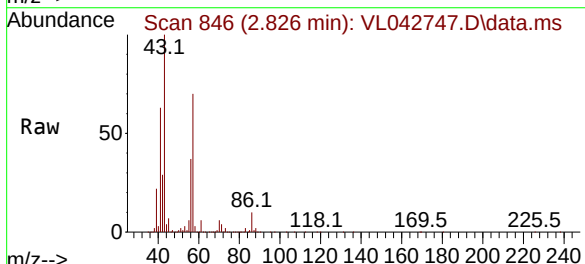
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	8.4	6.7	10.1
70	8.3	6.6	10.0

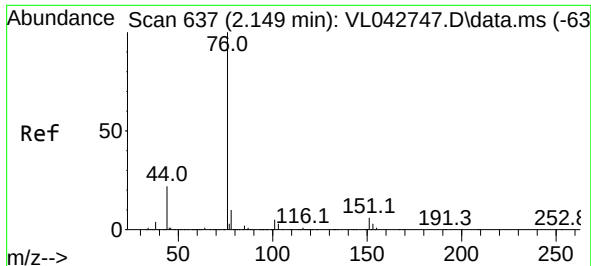


#26
Hexane
Concen: 9.555 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 57 Resp: 203800

Ion	Ratio	Lower	Upper
57	100		
41	94.3	75.4	113.2
43	231.3	185.0	277.6
56	53.6	42.9	64.3





#27

Carbon Disulfide

Concen: 9.480 ppbv

RT: 2.149 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

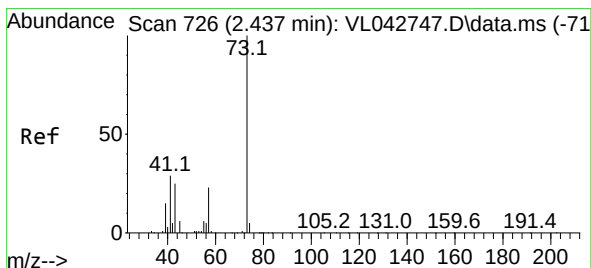
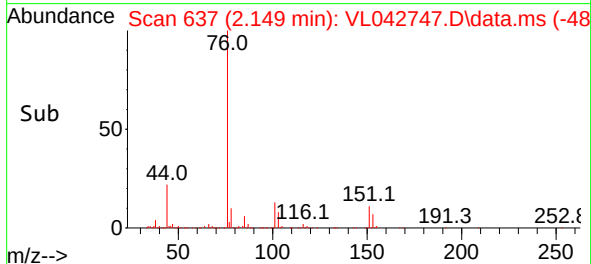
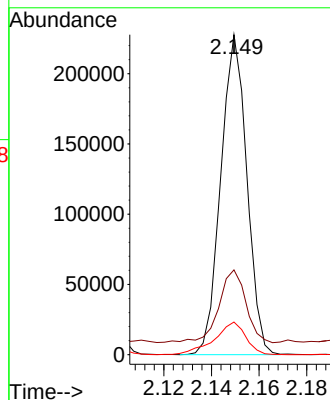
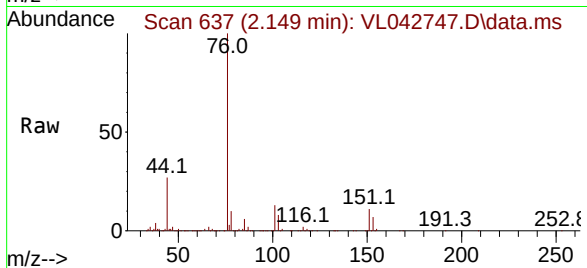
Tgt Ion: 76 Resp: 173105

Ion Ratio Lower Upper

76 100

44 24.1 19.3 28.9

78 12.4 9.9 14.9



#28

Methyl tert-Butyl Ether

Concen: 8.770 ppbv

RT: 2.437 min Scan# 726

Delta R.T. 0.000 min

Lab File: VL042747.D

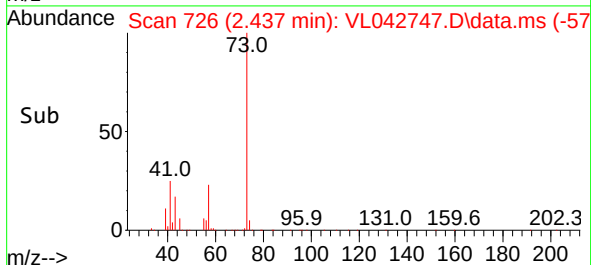
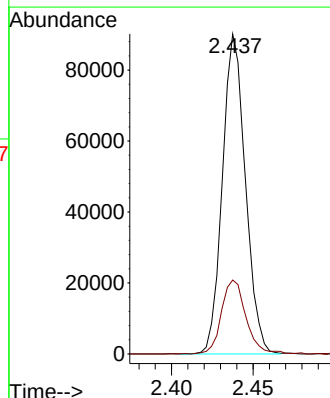
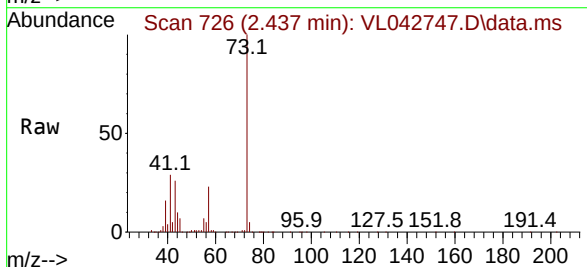
Acq: 23 Jul 2025 08:58

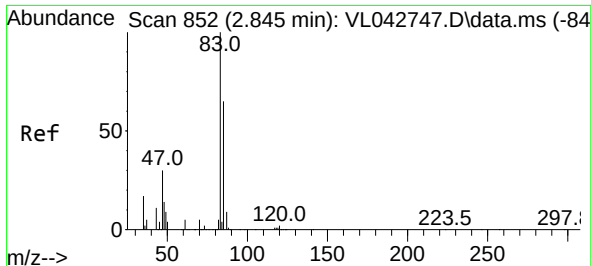
Tgt Ion: 73 Resp: 88372

Ion Ratio Lower Upper

73 100

57 24.8 19.8 29.8





#29

Chloroform

Concen: 9.244 ppbv

RT: 2.845 min Scan# 852

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

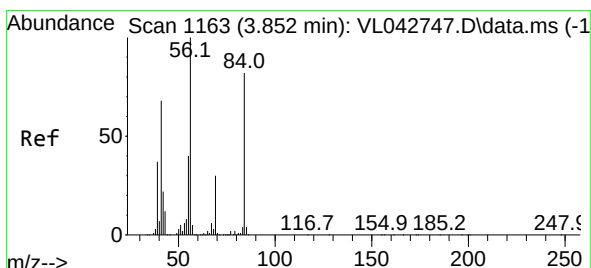
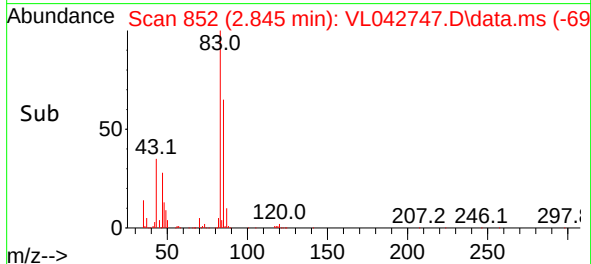
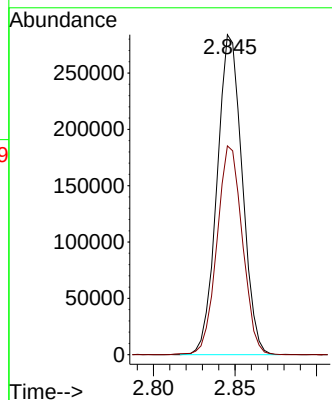
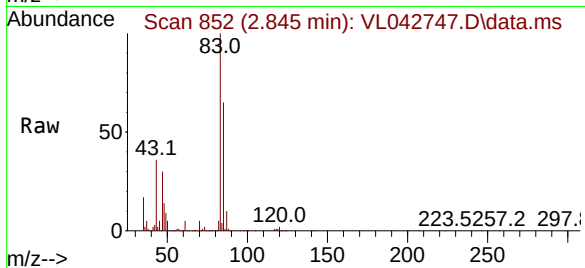
VSTDICCC010

Tgt Ion: 83 Resp: 304670

Ion Ratio Lower Upper

83 100

85 65.2 52.2 78.2



#30

Cyclohexane

Concen: 9.892 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

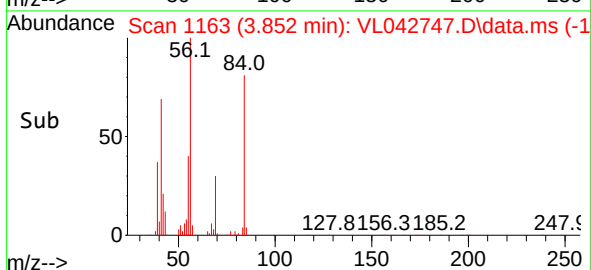
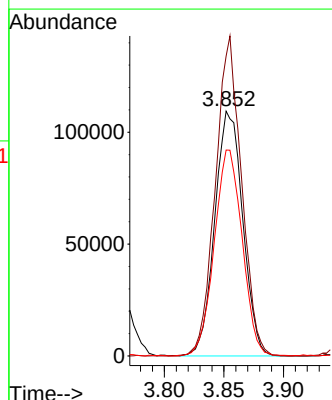
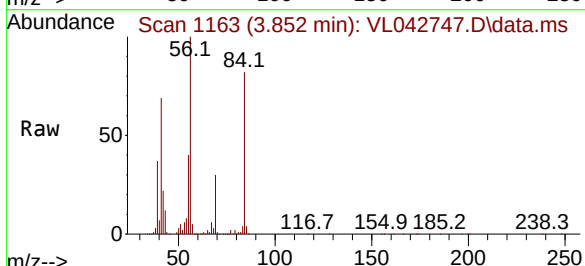
Tgt Ion: 84 Resp: 178948

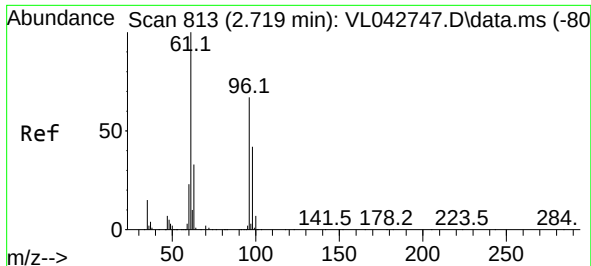
Ion Ratio Lower Upper

84 100

56 121.9 97.5 146.3

41 84.0 67.2 100.8

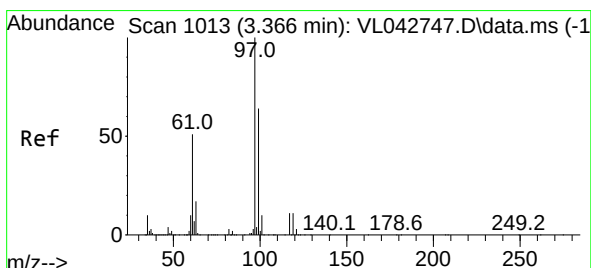
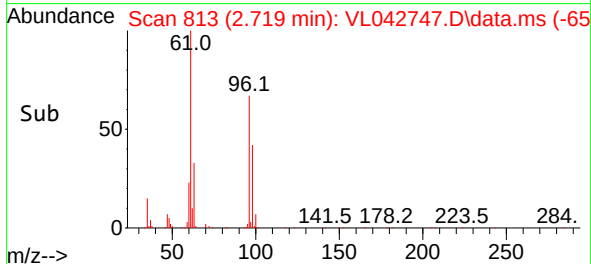
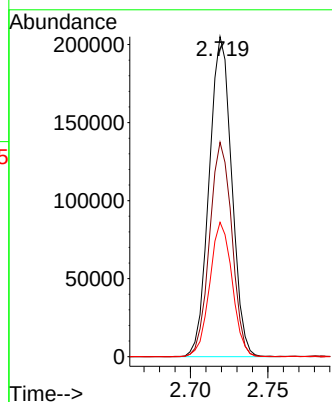
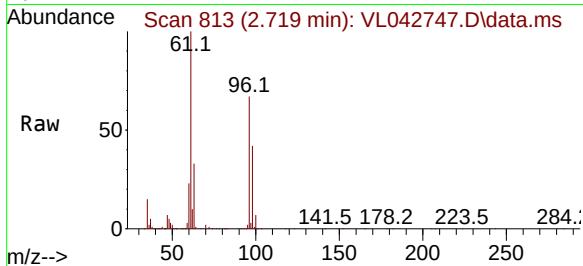




#31
 cis-1,2-Dichloroethene
 Concen: 9.479 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

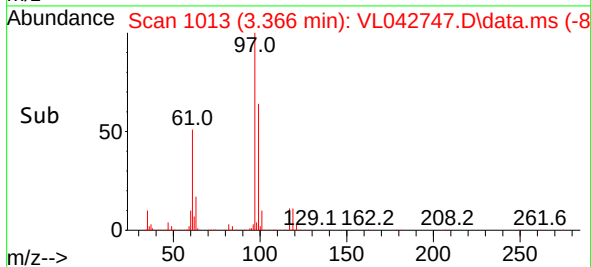
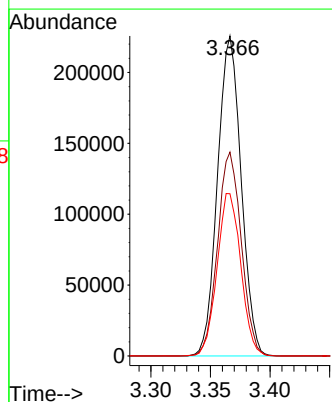
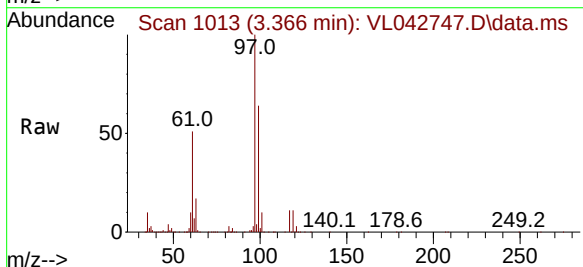
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

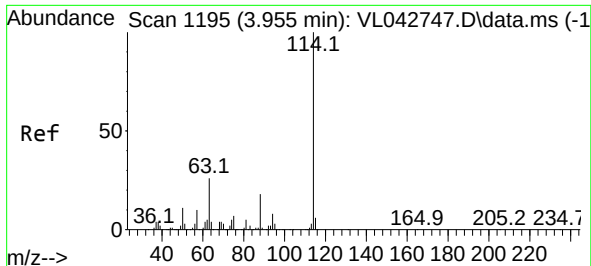
Tgt Ion: 61 Resp: 207751
 Ion Ratio Lower Upper
 61 100
 96 66.9 53.5 80.3
 98 42.0 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 9.069 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion: 97 Resp: 311368
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.0 76.6
 61 51.1 40.9 61.3

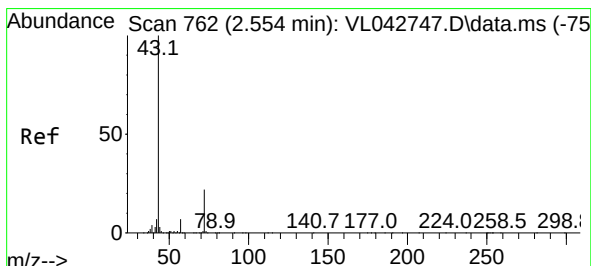
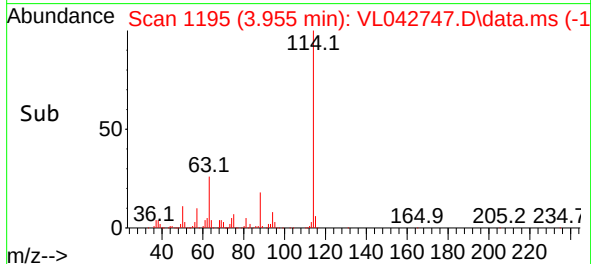
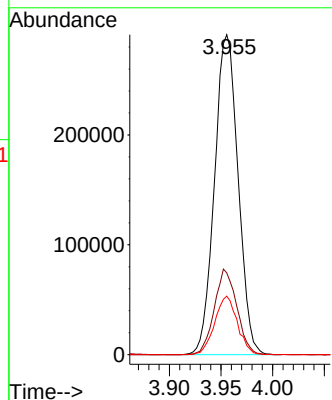
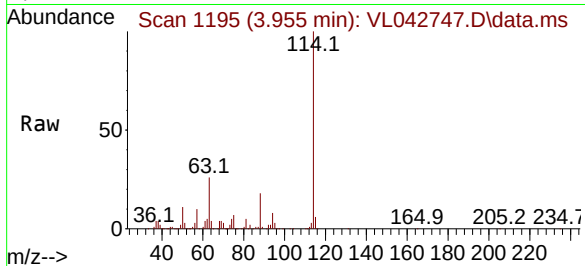




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.955 min Scan# 1195
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

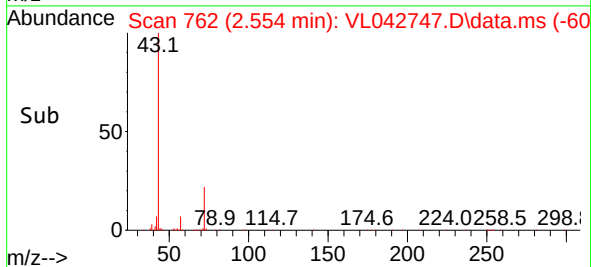
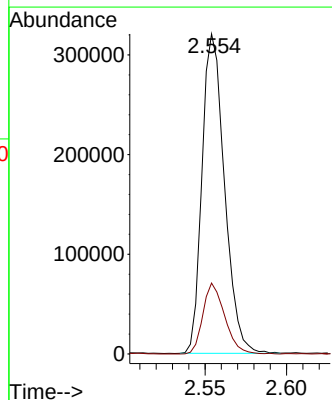
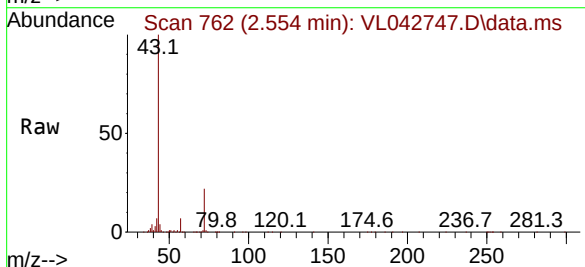
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

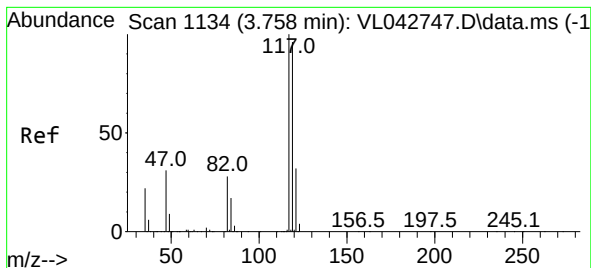
Tgt Ion:114 Resp: 462763
 Ion Ratio Lower Upper
 114 100
 63 25.6 20.5 30.7
 88 17.5 14.0 21.0



#34
 2-Butanone
 Concen: 9.361 ppbv
 RT: 2.554 min Scan# 762
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion: 43 Resp: 306858
 Ion Ratio Lower Upper
 43 100
 72 21.7 17.4 26.0





#35

Carbon Tetrachloride

Concen: 9.436 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

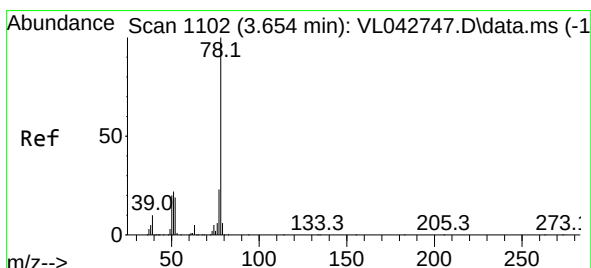
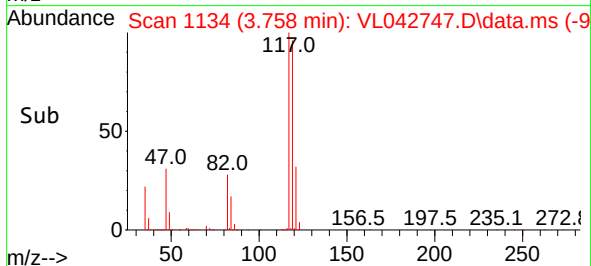
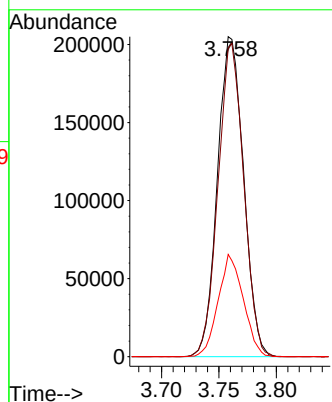
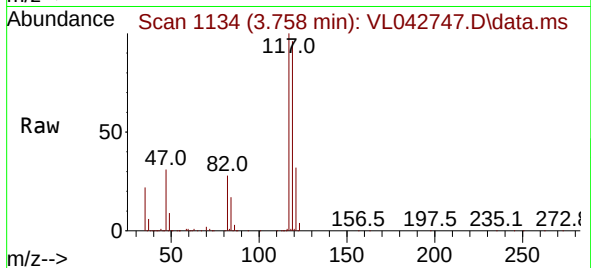
Tgt Ion:117 Resp: 324501

Ion Ratio Lower Upper

117 100

119 96.4 77.1 115.7

121 31.9 25.5 38.3



#36

Benzene

Concen: 9.459 ppbv

RT: 3.654 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

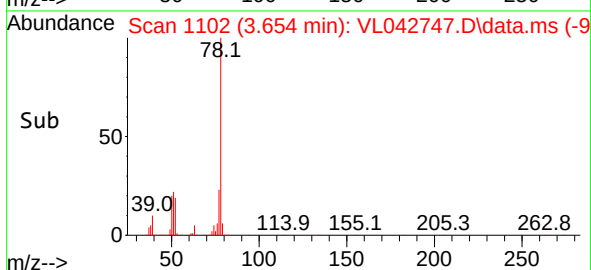
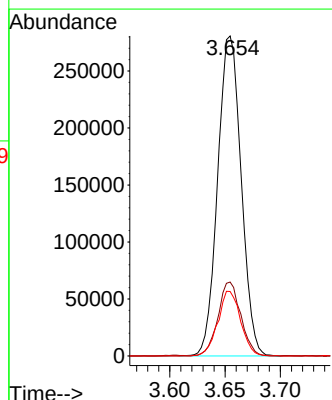
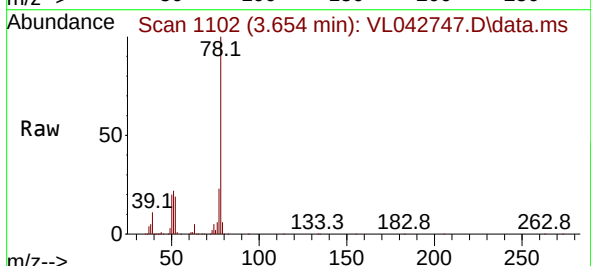
Tgt Ion: 78 Resp: 414863

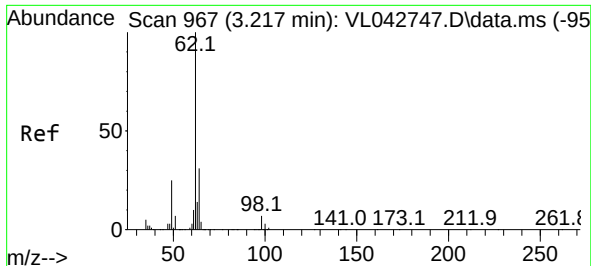
Ion Ratio Lower Upper

78 100

77 23.1 18.5 27.7

50 20.2 16.2 24.2





#37

1,2-Dichloroethane

Concen: 9.403 ppbv

RT: 3.217 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

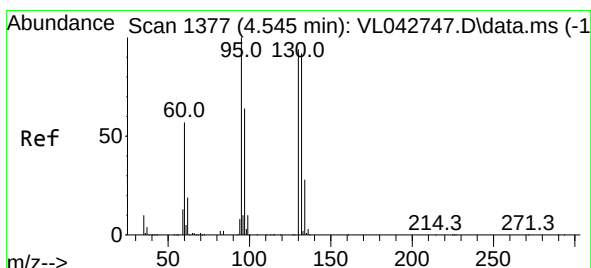
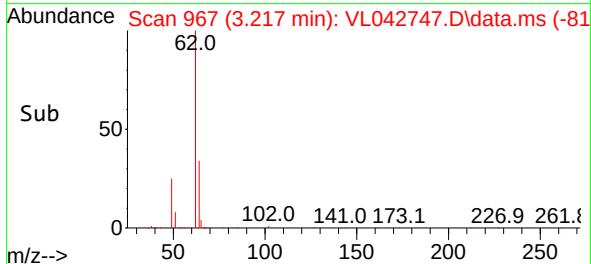
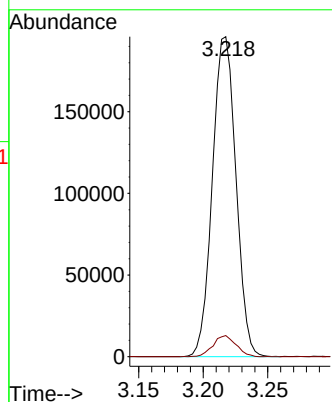
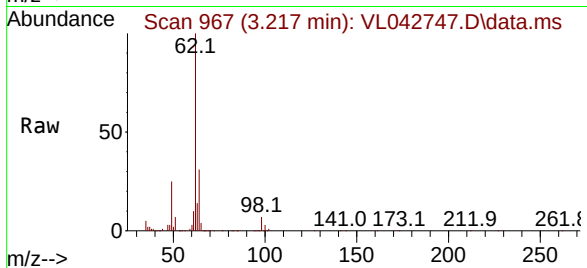
VSTDICCC010

Tgt Ion: 62 Resp: 248414

Ion Ratio Lower Upper

62 100

98 6.5 5.2 7.8



#38

Trichloroethene

Concen: 8.926 ppbv

RT: 4.545 min Scan# 1377

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Tgt Ion:130 Resp: 188750

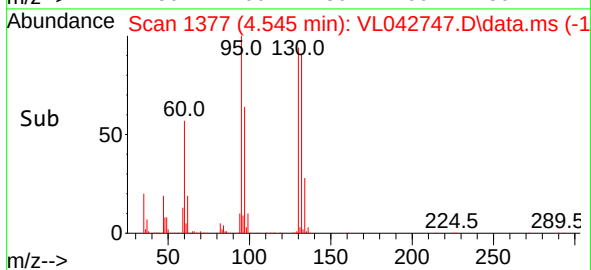
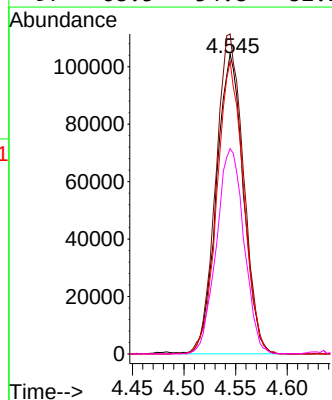
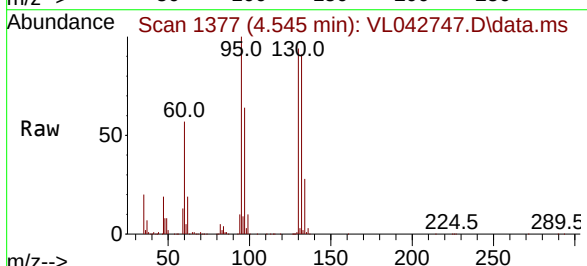
Ion Ratio Lower Upper

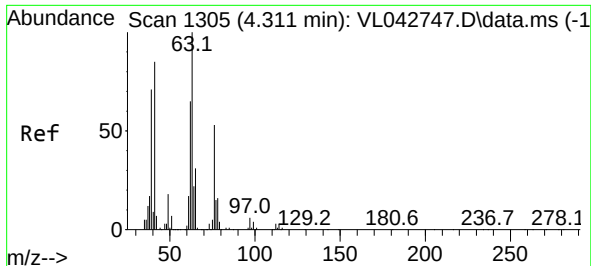
130 100

95 106.8 85.4 128.2

132 97.7 78.2 117.2

97 68.5 54.8 82.2





#39

1,2-Dichloropropane

Concen: 9.251 ppbv

RT: 4.311 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

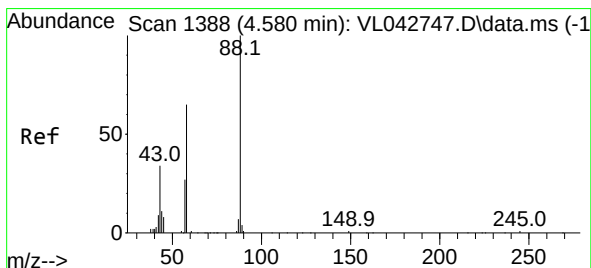
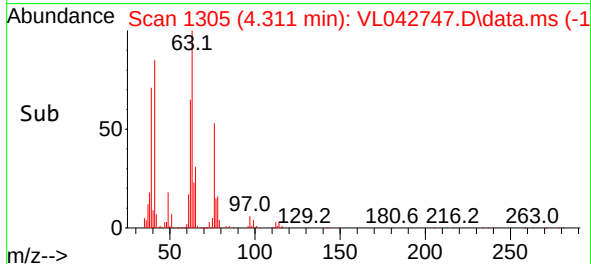
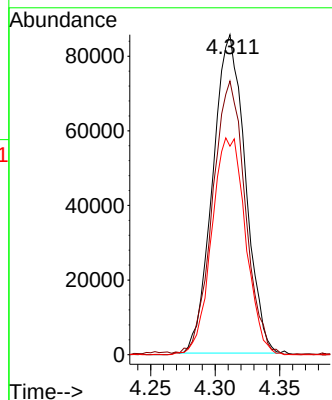
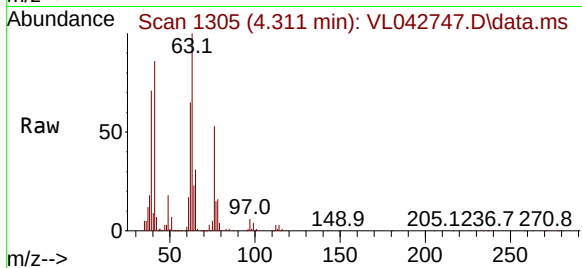
Tgt Ion: 63 Resp: 149771

Ion Ratio Lower Upper

63 100

41 85.3 68.2 102.4

62 65.0 52.0 78.0



#40

1,4-Dioxane

Concen: 8.569 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Tgt Ion: 88 Resp: 65413

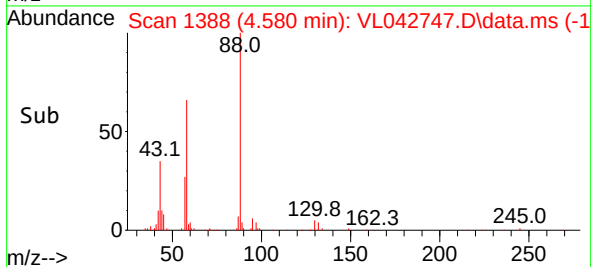
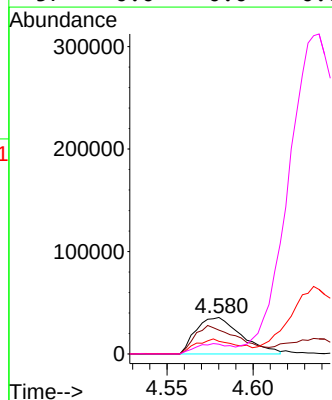
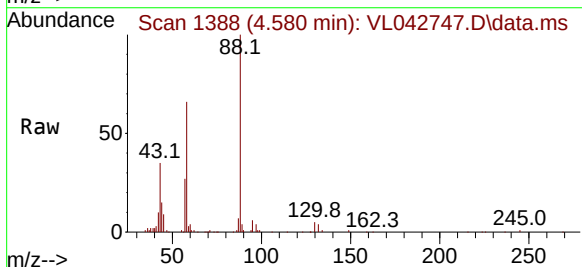
Ion Ratio Lower Upper

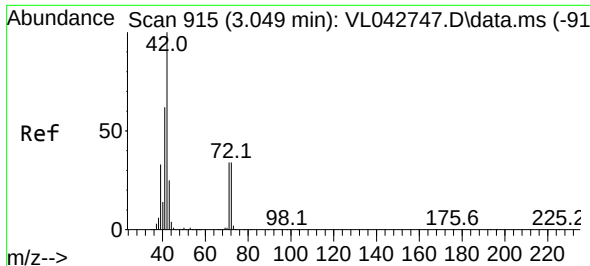
88 100

58 73.5 58.8 88.2

43 36.1 28.9 43.3

57 0.0 0.0 0.0

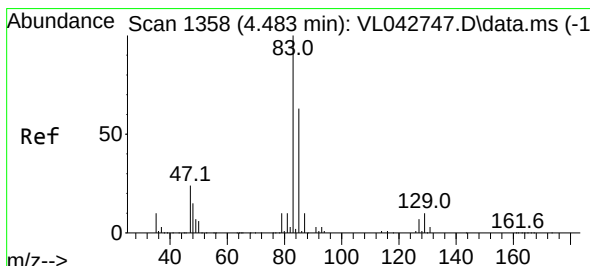
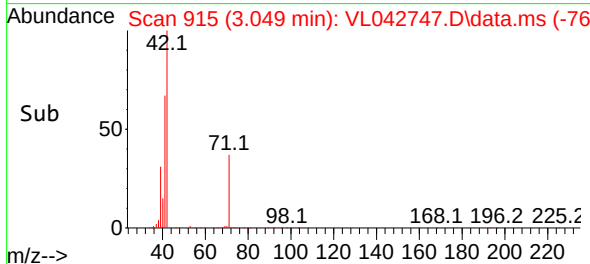
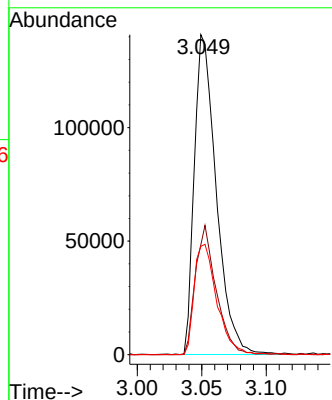
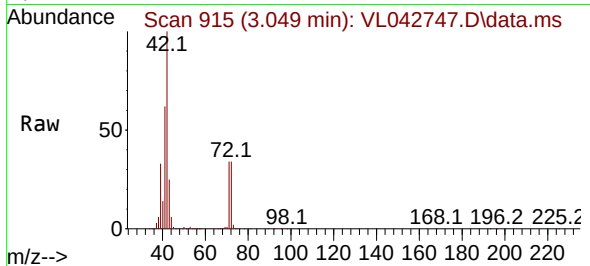




#41
Tetrahydrofuran
Concen: 10.160 ppbv
RT: 3.049 min Scan# 915
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

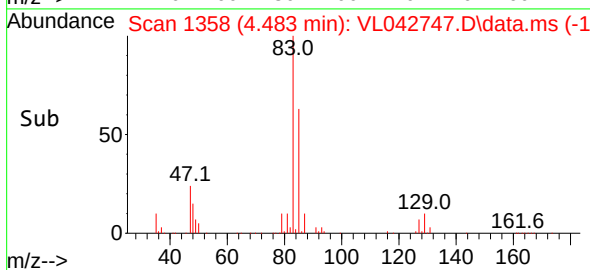
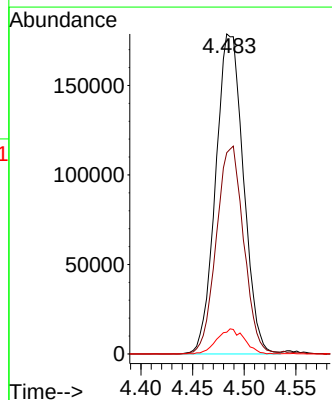
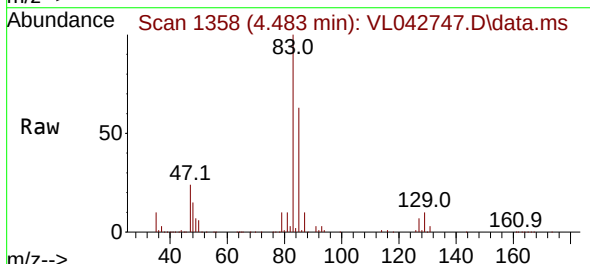
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

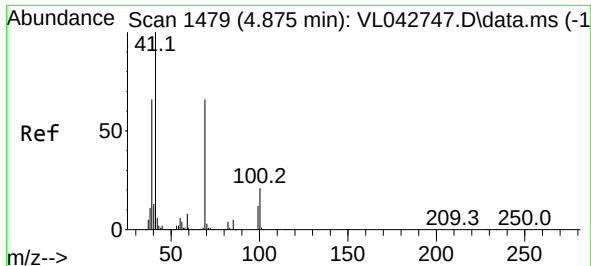
Tgt Ion: 42 Resp: 167323
Ion Ratio Lower Upper
42 100
72 38.6 30.9 46.3
71 35.8 28.6 43.0



#42
Bromodichloromethane
Concen: 9.713 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 83 Resp: 334531
Ion Ratio Lower Upper
83 100
85 62.8 50.2 75.4
127 6.8 5.4 8.2

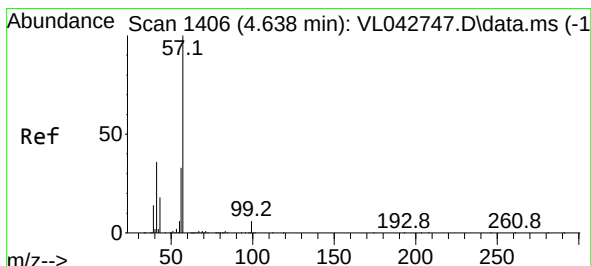
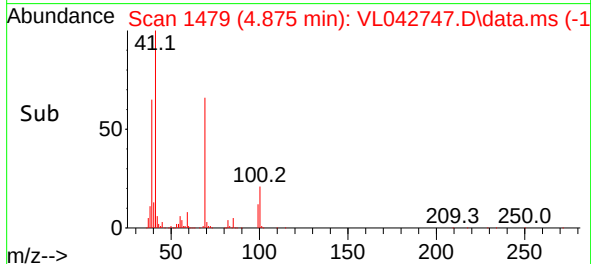
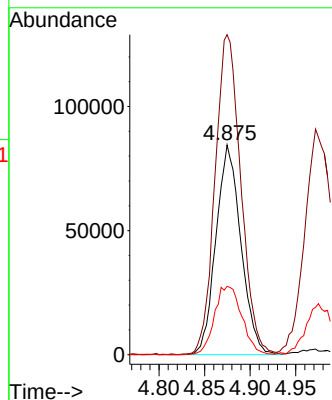
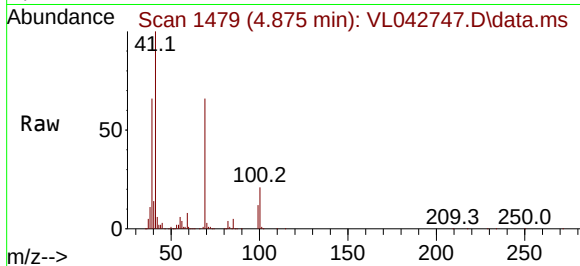




#43
Methyl Methacrylate
Concen: 10.331 ppbv
RT: 4.875 min Scan# 1479
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

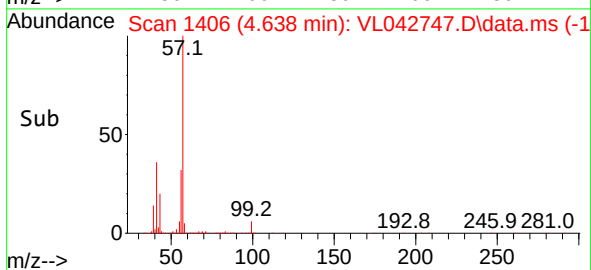
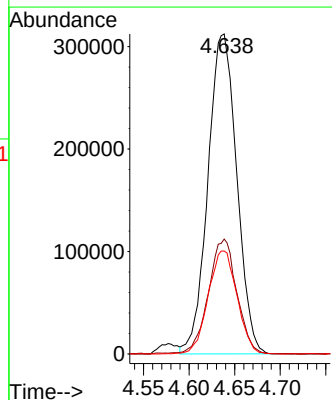
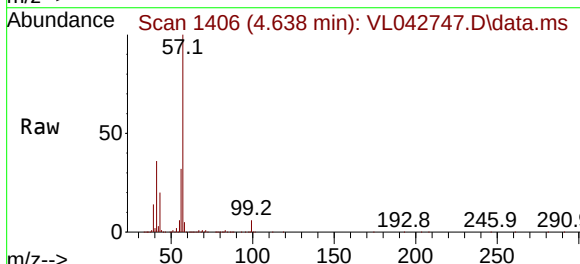
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

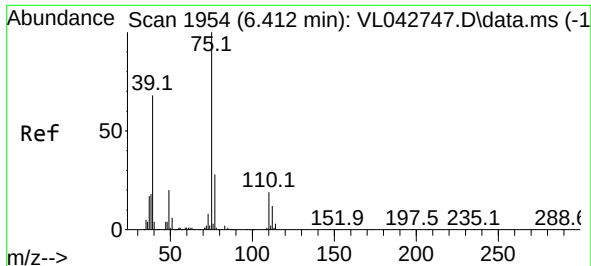
Tgt Ion: 69 Resp: 161053
Ion Ratio Lower Upper
69 100
41 157.1 125.7 188.5
100 35.7 28.6 42.8



#44
2,2,4-Trimethylpentane
Concen: 9.623 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 57 Resp: 687885
Ion Ratio Lower Upper
57 100
41 35.4 28.3 42.5
56 32.2 25.8 38.6

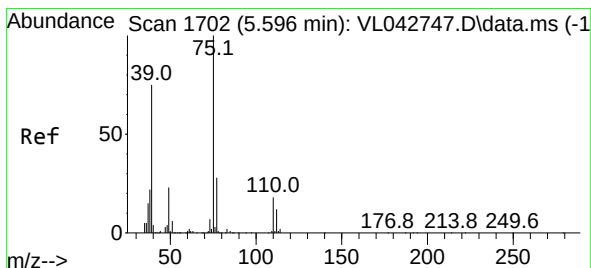
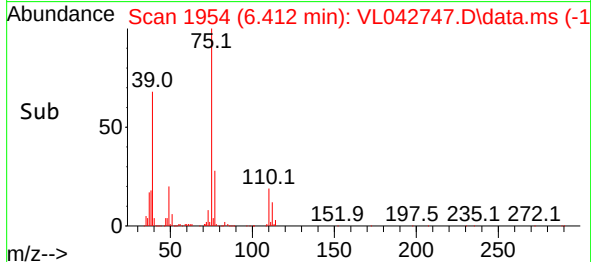
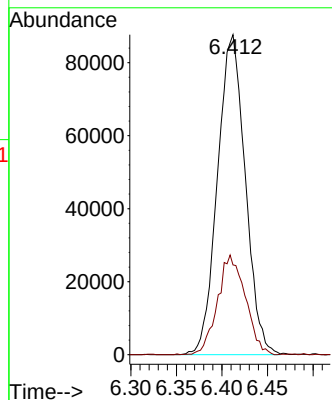
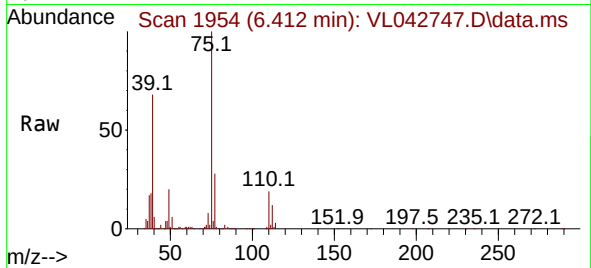




#45
 t-1,3-Dichloropropene
 Concen: 10.633 ppbv
 RT: 6.412 min Scan# 1954
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

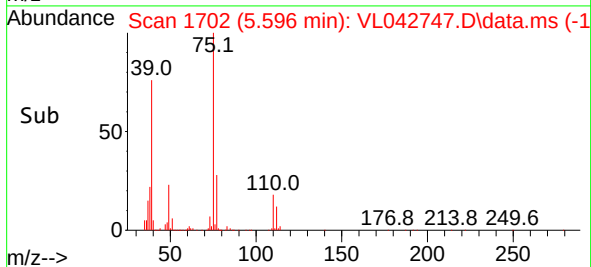
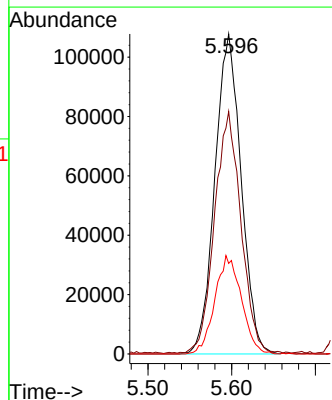
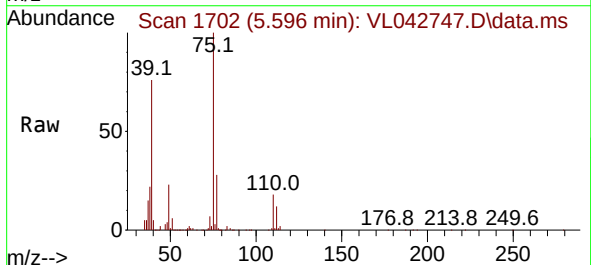
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

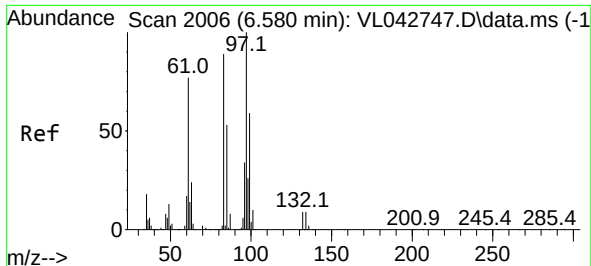
Tgt Ion: 75 Resp: 185965
 Ion Ratio Lower Upper
 75 100
 77 28.0 22.4 33.6



#46
 cis-1,3-Dichloropropene
 Concen: 10.587 ppbv
 RT: 5.596 min Scan# 1702
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion: 75 Resp: 234594
 Ion Ratio Lower Upper
 75 100
 39 75.2 60.2 90.2
 77 28.3 22.6 34.0





#47

1,1,2-Trichloroethane

Concen: 9.297 ppbv

RT: 6.580 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 160431

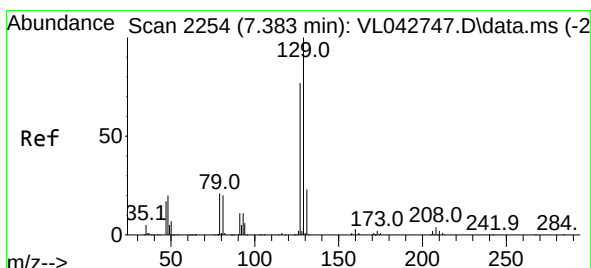
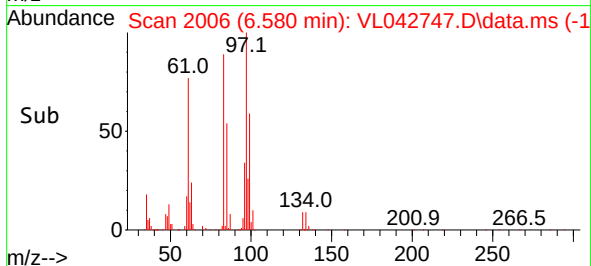
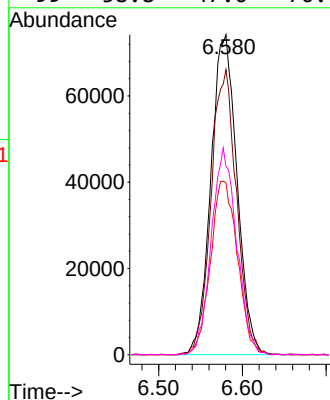
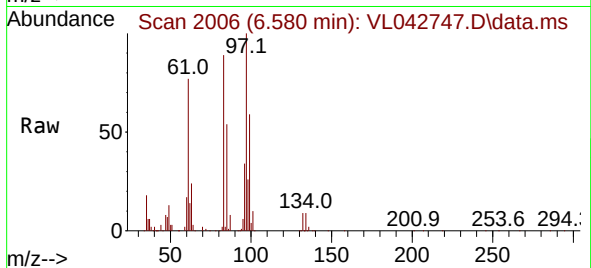
Ion Ratio Lower Upper

97 100

83 88.9 71.1 106.7

85 53.7 43.0 64.4

99 58.8 47.0 70.6



#48

Dibromochloromethane

Concen: 10.141 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. 0.000 min

Lab File: VL042747.D

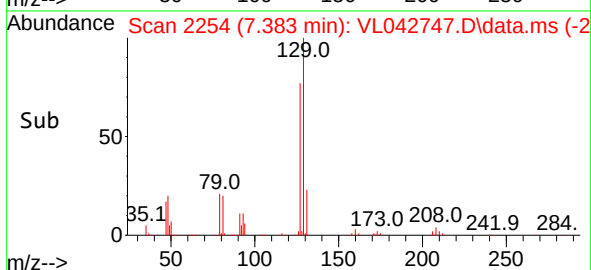
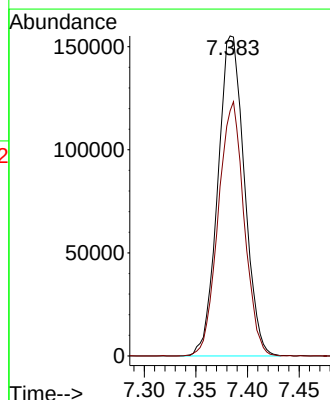
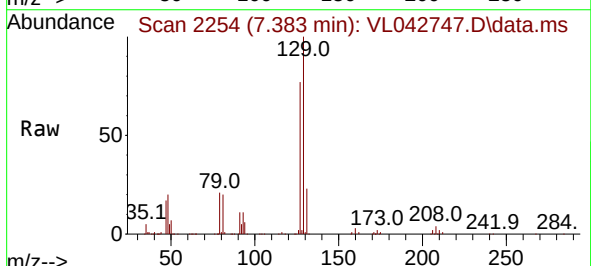
Acq: 23 Jul 2025 08:58

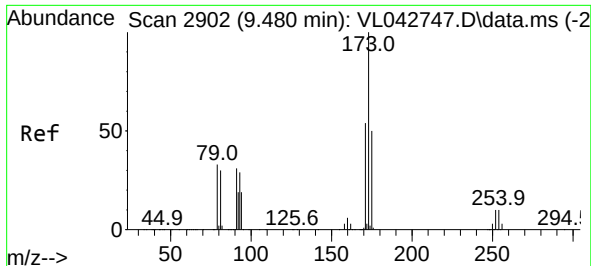
Tgt Ion: 129 Resp: 277832

Ion Ratio Lower Upper

129 100

127 77.4 38.7 116.1

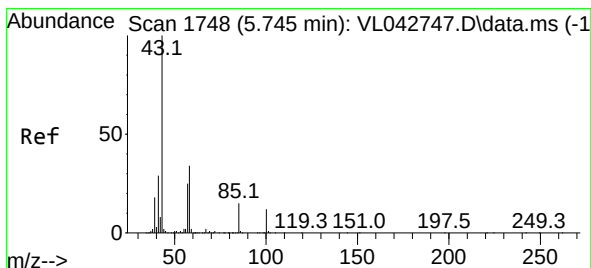
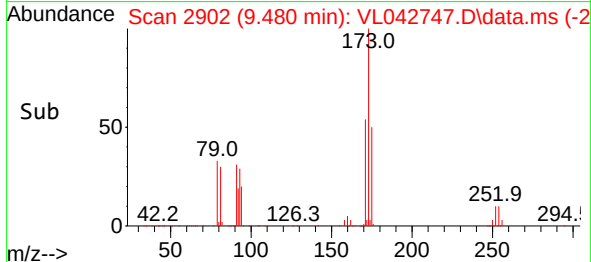
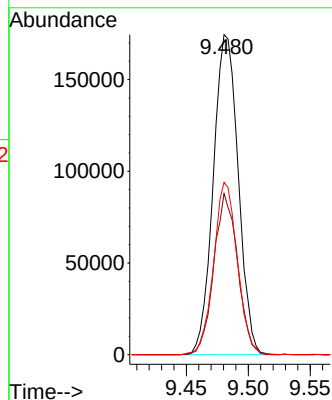
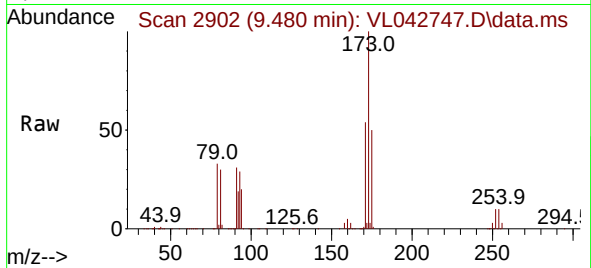




#49
Bromoform
Concen: 10.256 ppbv
RT: 9.480 min Scan# 2902
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

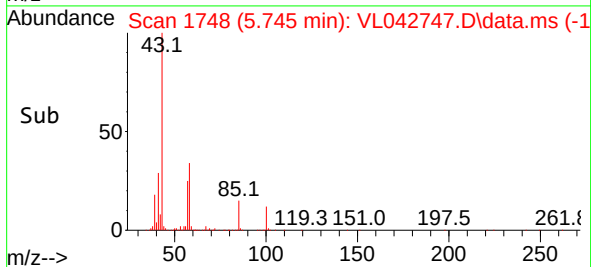
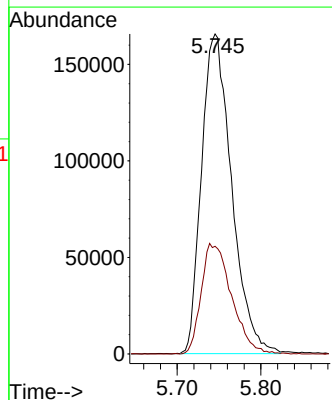
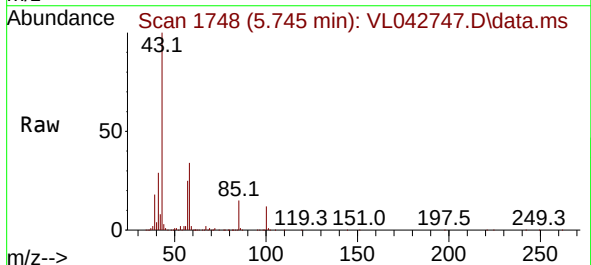
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

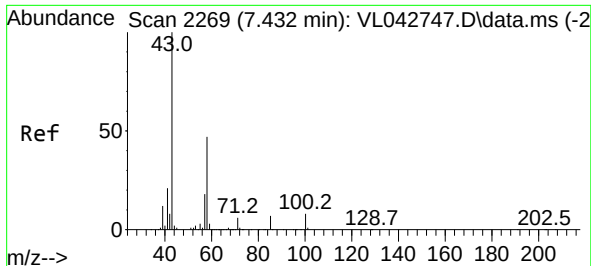
Tgt Ion:173 Resp: 244997
Ion Ratio Lower Upper
173 100
175 48.0 38.4 57.6
171 51.1 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 9.914 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 43 Resp: 413966
Ion Ratio Lower Upper
43 100
58 34.8 27.8 41.8

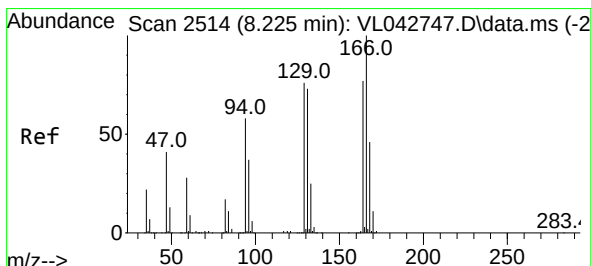
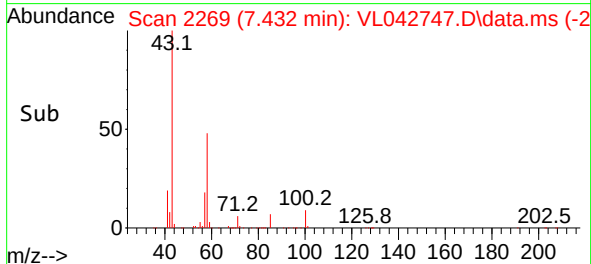
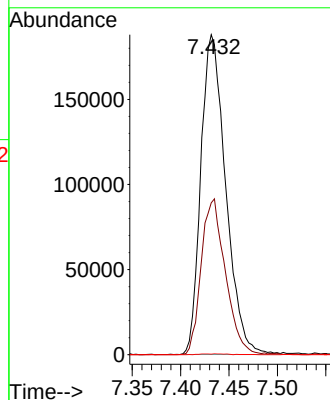
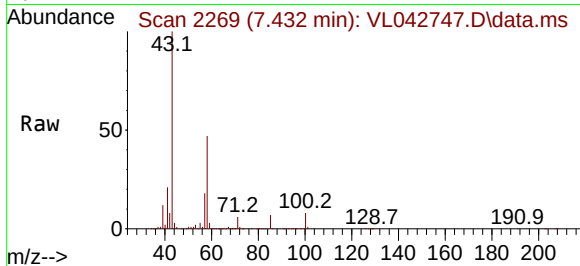




#51
2-Hexanone
Concen: 10.532 ppbv
RT: 7.432 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

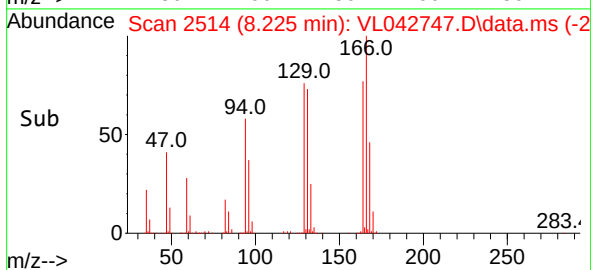
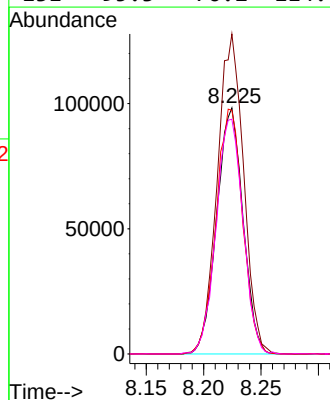
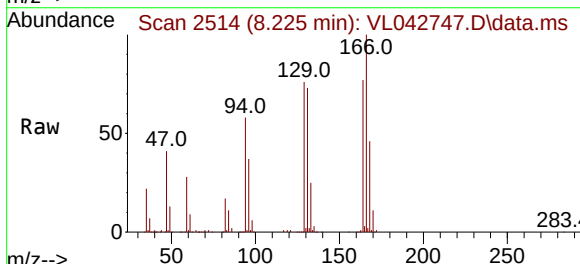
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

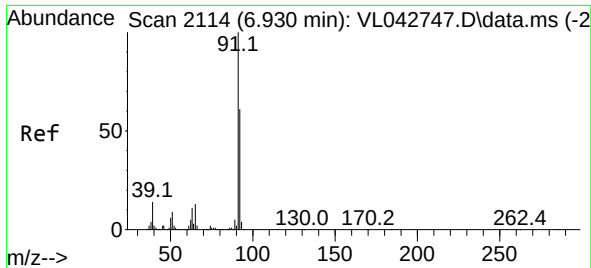
Tgt Ion: 43 Resp: 336048
Ion Ratio Lower Upper
43 100
58 47.5 38.0 57.0
98 0.3 0.2 0.4



#52
Tetrachloroethene
Concen: 8.609 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 164 Resp: 156930
Ion Ratio Lower Upper
164 100
166 130.0 104.0 156.0
129 99.0 79.2 118.8
131 95.3 76.2 114.4

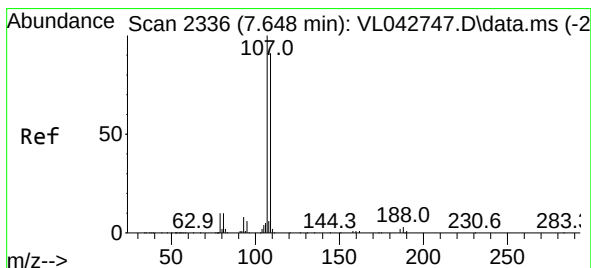
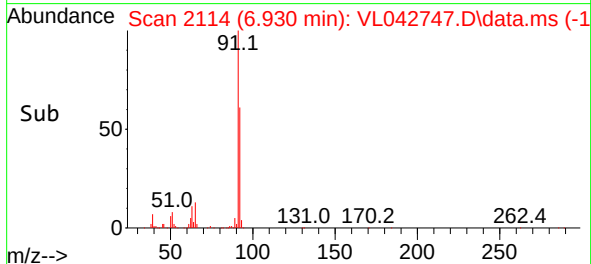
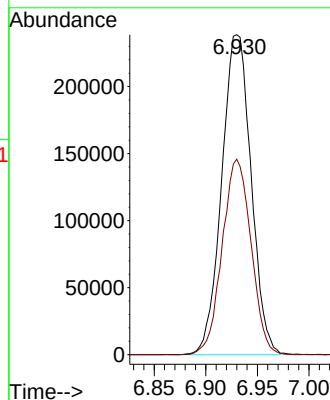
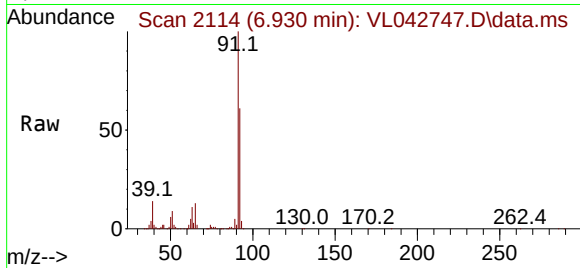




#53
Toluene
Concen: 10.042 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

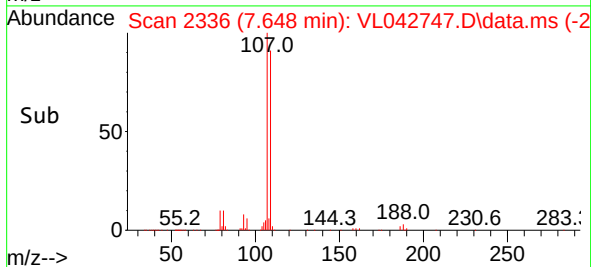
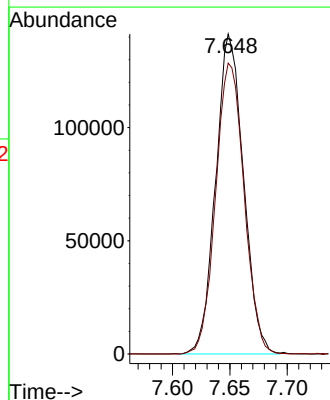
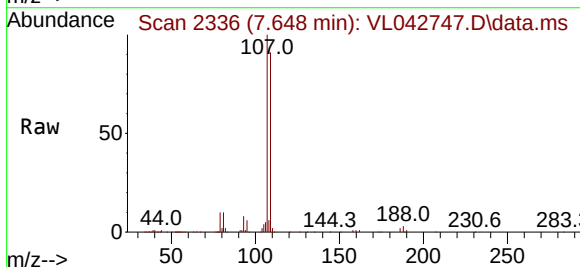
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

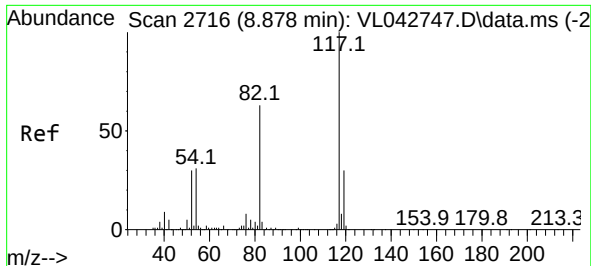
Tgt Ion: 91 Resp: 472953
Ion Ratio Lower Upper
91 100
92 60.0 48.0 72.0



#54
1,2-Dibromoethane
Concen: 9.745 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 107 Resp: 238045
Ion Ratio Lower Upper
107 100
109 90.9 72.7 109.1

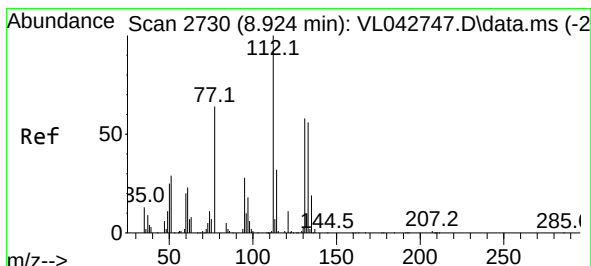
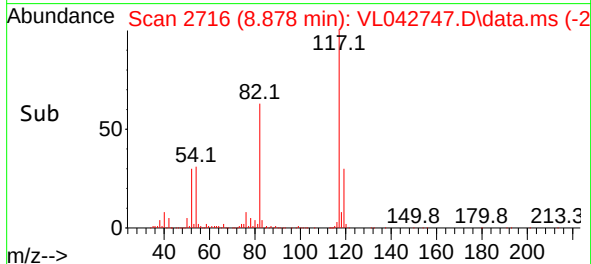
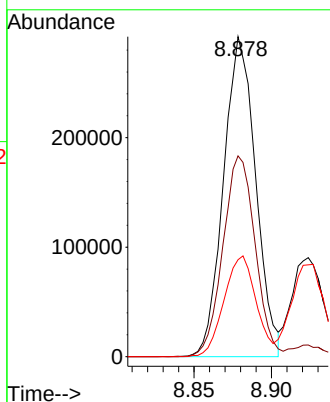
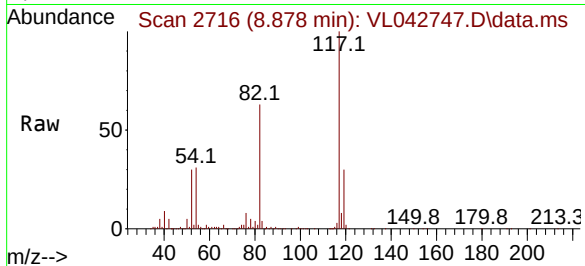




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

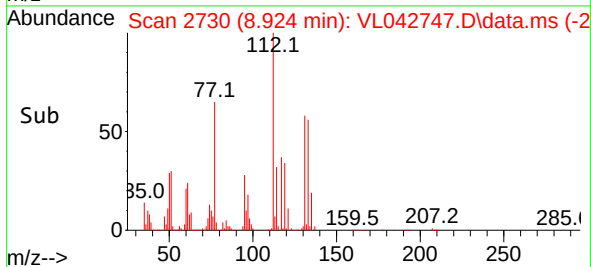
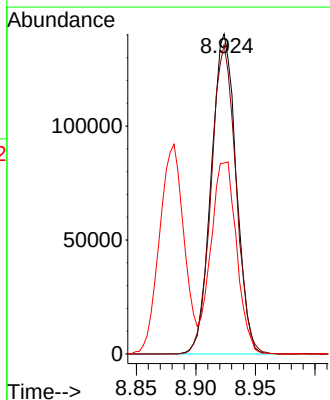
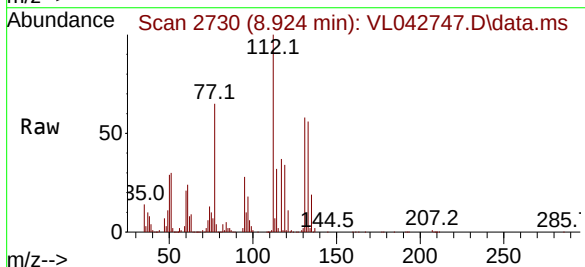
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

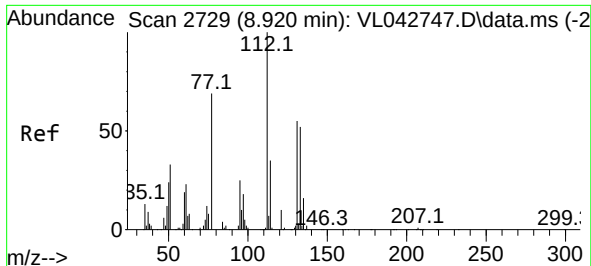
Tgt Ion:117 Resp: 422206
Ion Ratio Lower Upper
117 100
82 66.6 53.3 79.9
119 32.2 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 9.302 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:131 Resp: 204205
Ion Ratio Lower Upper
131 100
133 96.0 76.8 115.2
119 62.1 49.7 74.5

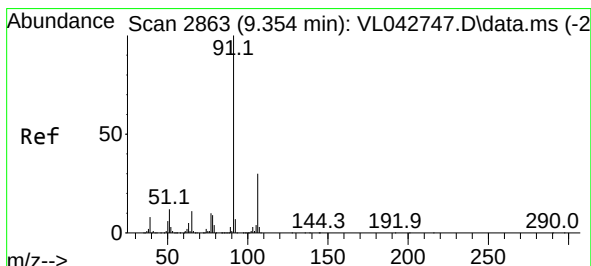
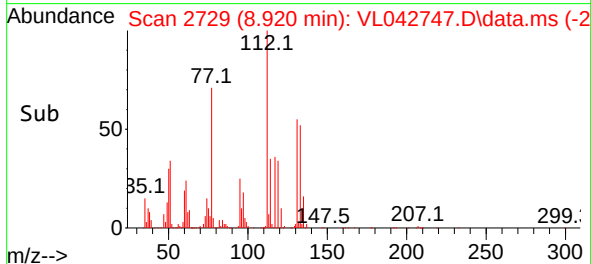
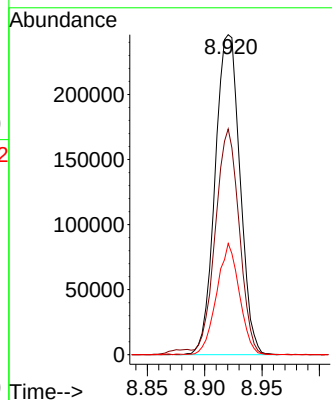
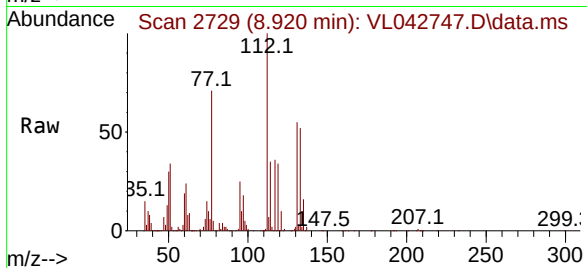




#57
Chlorobenzene
Concen: 9.082 ppbv
RT: 8.920 min Scan# 2117
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

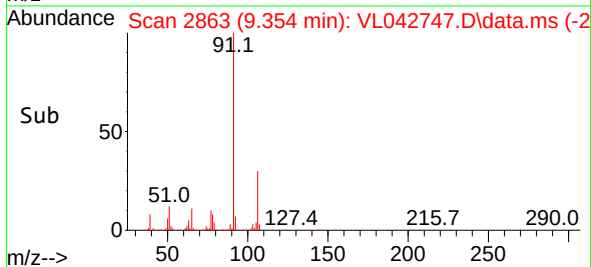
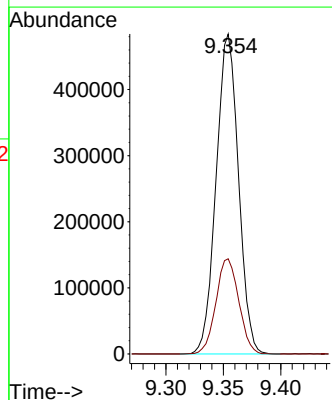
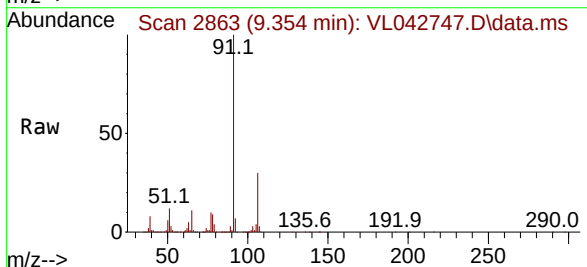
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

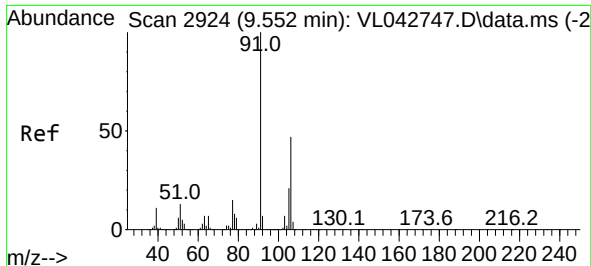
Tgt Ion:112 Resp: 371117
Ion Ratio Lower Upper
112 100
77 70.5 56.4 84.6
114 34.7 31.2 38.2



#58
Ethyl Benzene
Concen: 9.824 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 91 Resp: 655020
Ion Ratio Lower Upper
91 100
106 29.7 23.8 35.6





#59

m/p-Xylene

Concen: 8.639 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

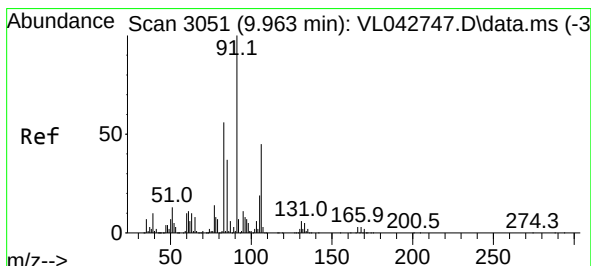
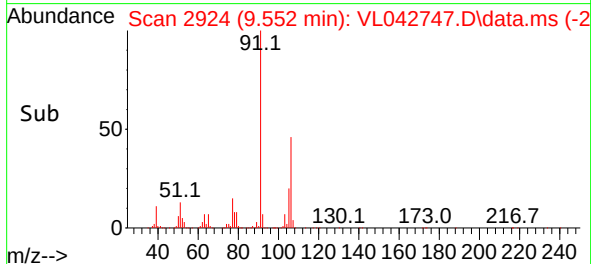
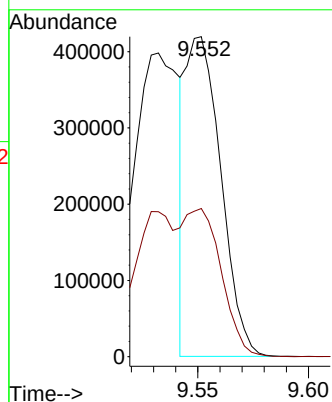
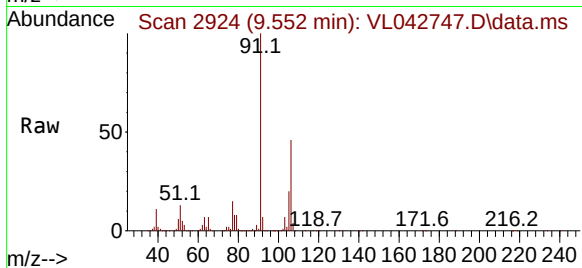
VSTDICCC010

Tgt Ion: 91 Resp: 460477

Ion Ratio Lower Upper

91 100

106 105.9 37.4 56.2#



#60

o-Xylene

Concen: 9.715 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042747.D

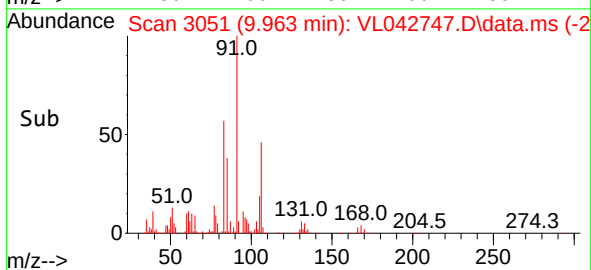
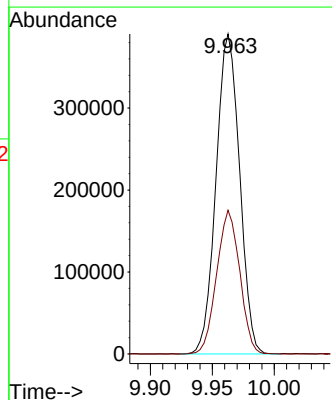
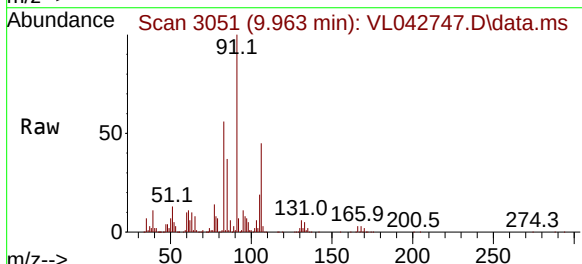
Acq: 23 Jul 2025 08:58

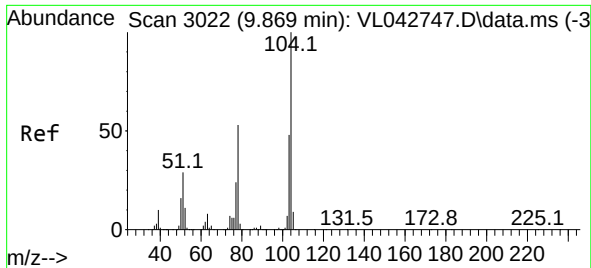
Tgt Ion: 91 Resp: 517292

Ion Ratio Lower Upper

91 100

106 44.0 22.0 66.0

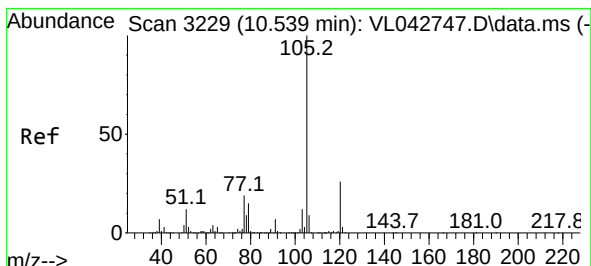
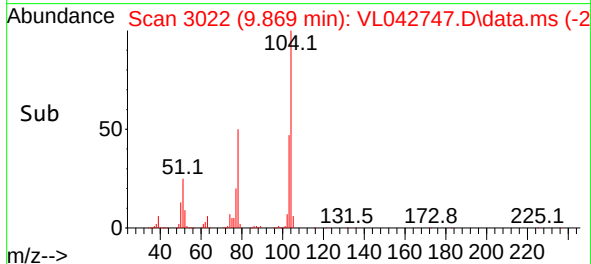
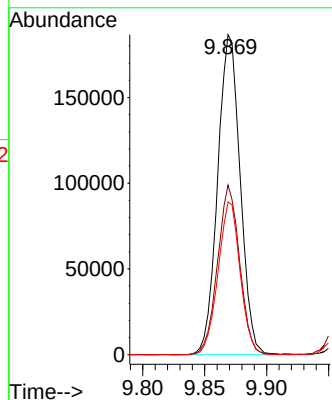
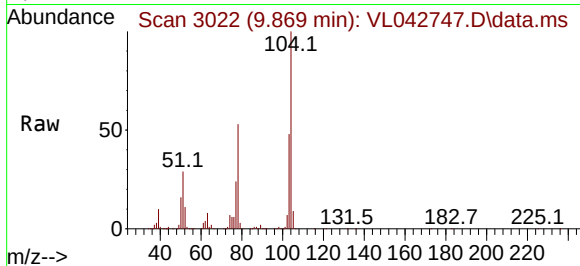




#61
Styrene
Concen: 10.568 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

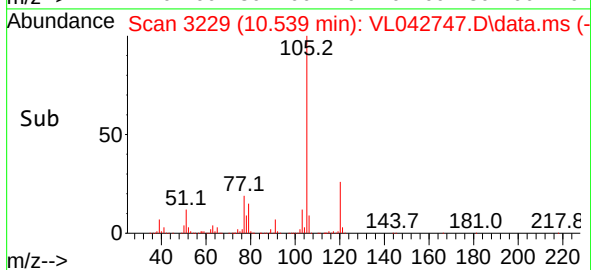
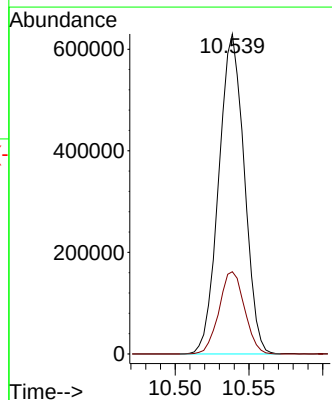
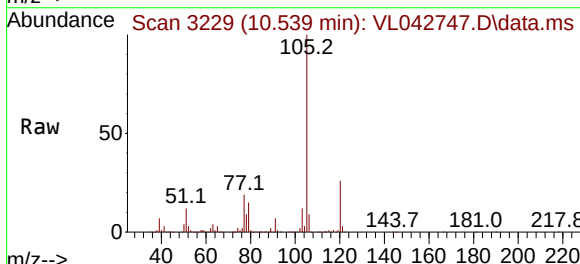
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

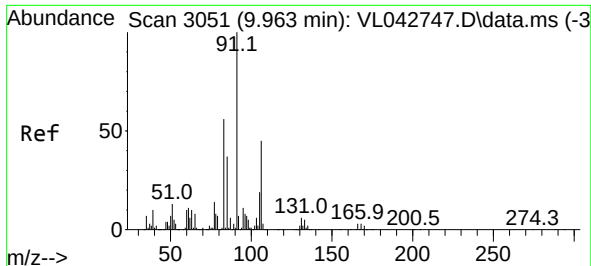
Tgt Ion:104 Resp: 236709
Ion Ratio Lower Upper
104 100
78 51.9 41.5 62.3
103 46.9 37.5 56.3



#62
Isopropylbenzene
Concen: 9.641 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:105 Resp: 757219
Ion Ratio Lower Upper
105 100
120 25.6 20.5 30.7

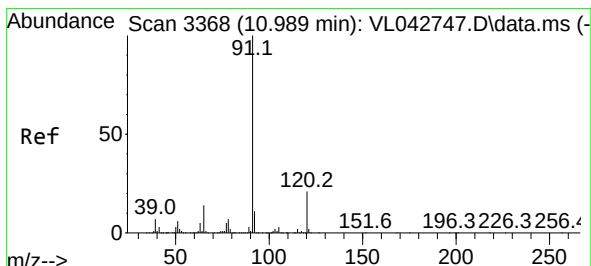
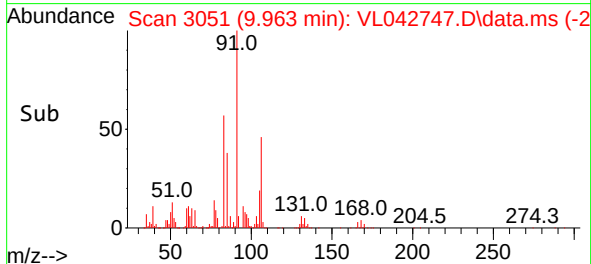
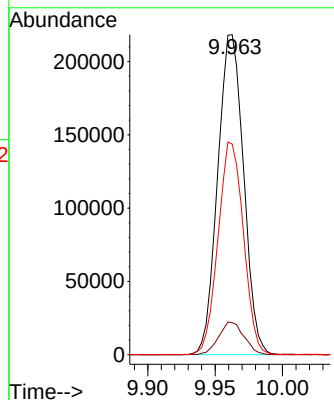
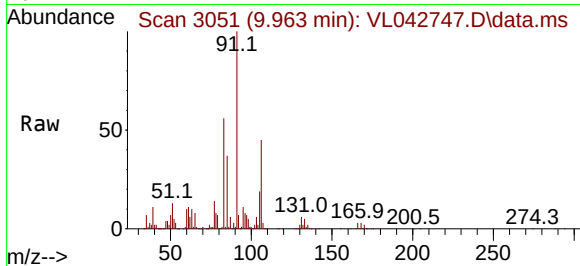




#63
1,1,2-Tetrachloroethane
Concen: 8.434 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

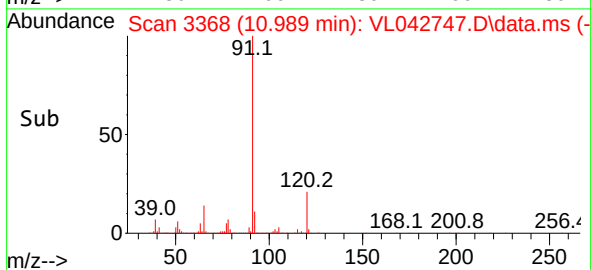
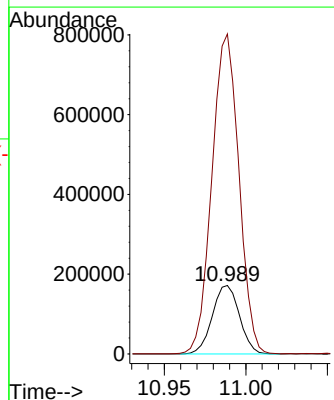
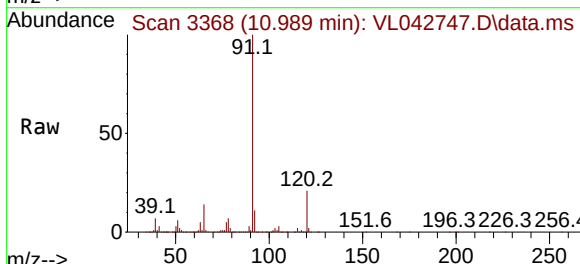
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

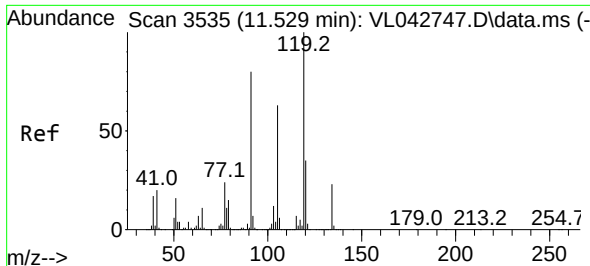
Tgt Ion: 83 Resp: 292568
Ion Ratio Lower Upper
83 100
131 10.0 5.0 15.0
85 65.1 32.6 97.7



#64
n-propylbenzene
Concen: 9.675 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 120 Resp: 198109
Ion Ratio Lower Upper
120 100
91 465.9 372.7 559.1

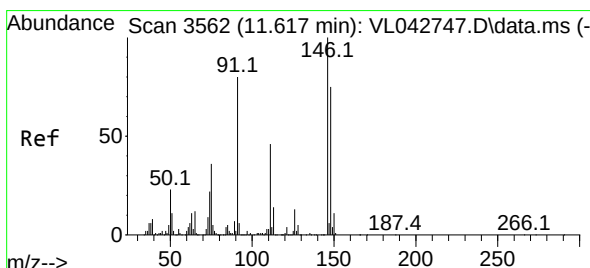
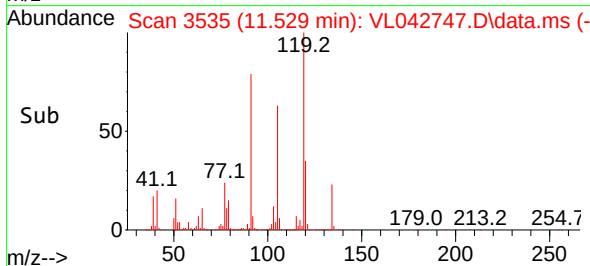
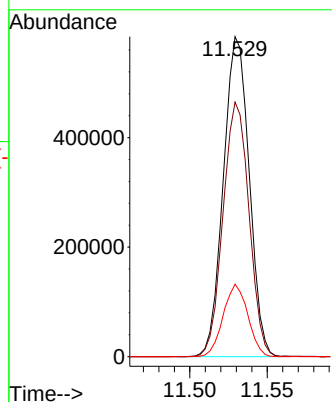
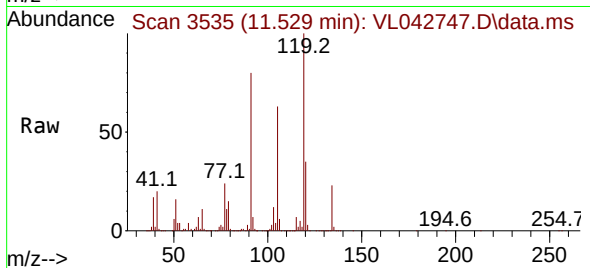




#65
tert-Butylbenzene
Concen: 9.721 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

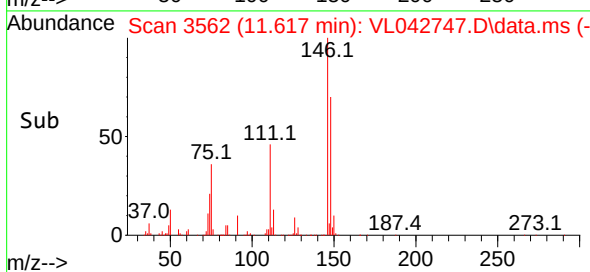
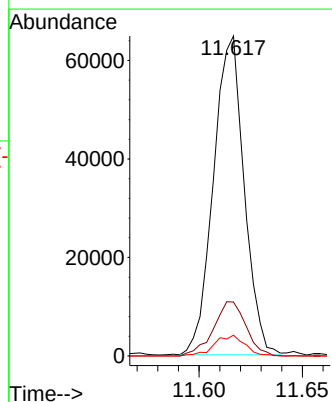
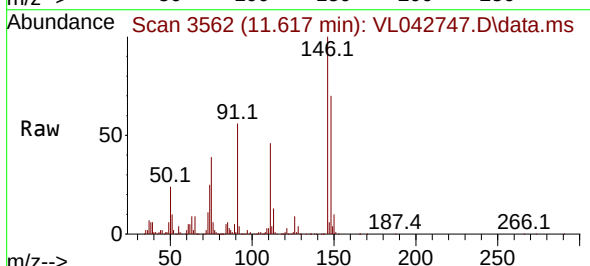
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

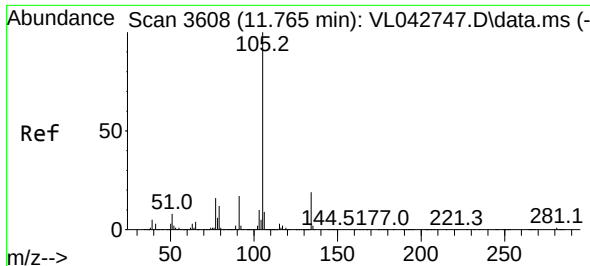
Tgt Ion:119 Resp: 678174
Ion Ratio Lower Upper
119 100
91 80.0 64.0 96.0
134 21.6 17.3 25.9



#66
Benzyl Chloride
Concen: 11.691 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion: 91 Resp: 66954
Ion Ratio Lower Upper
91 100
126 18.0 14.4 21.6
128 6.5 5.2 7.8

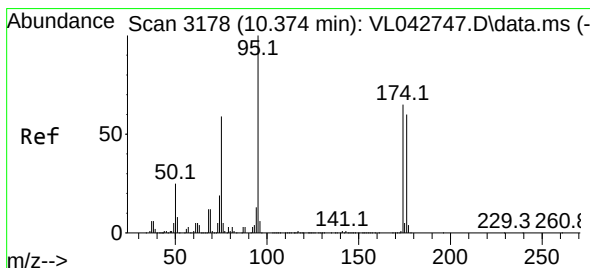
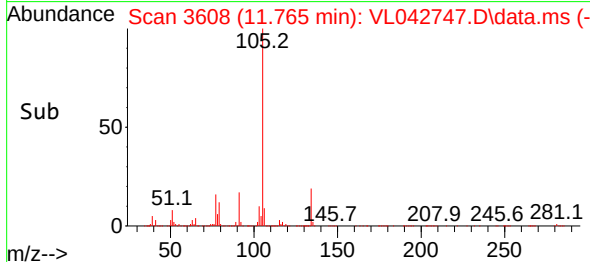
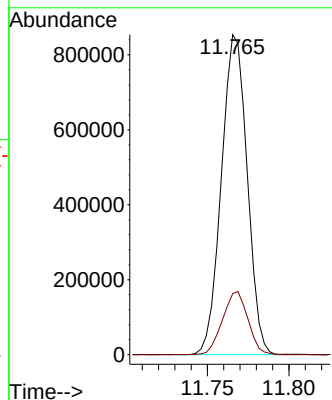
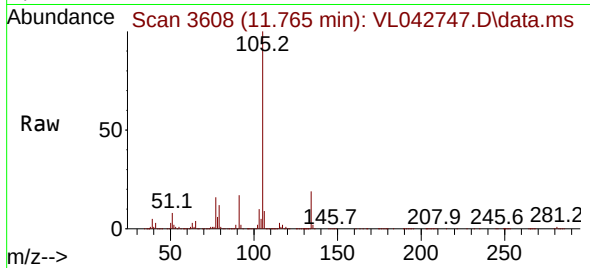




#67
 sec-Butylbenzene
 Concen: 9.468 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

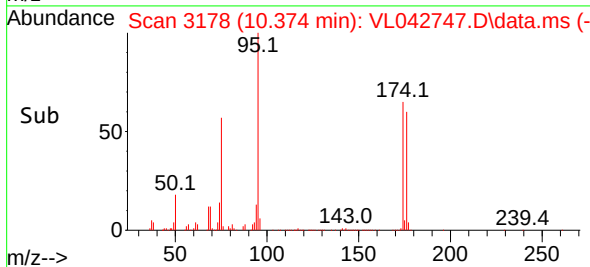
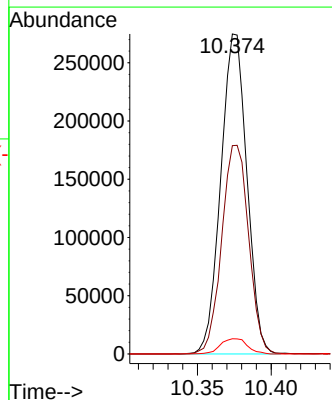
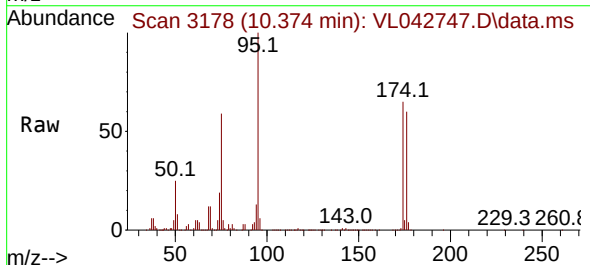
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

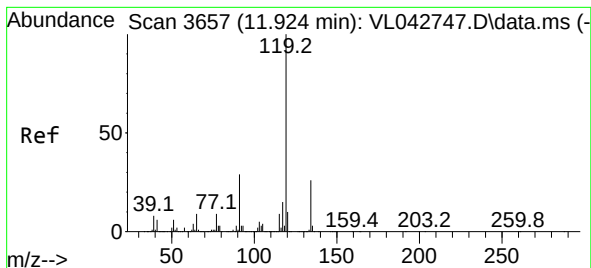
Tgt Ion:105 Resp: 939396
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.117 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.000 min
 Lab File: VL042747.D
 Acq: 23 Jul 2025 08:58

Tgt Ion: 95 Resp: 338271
 Ion Ratio Lower Upper
 95 100
 174 67.2 53.8 80.6
 175 5.0 4.0 6.0





#69

p-Isopropyltoluene

Concen: 10.061 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

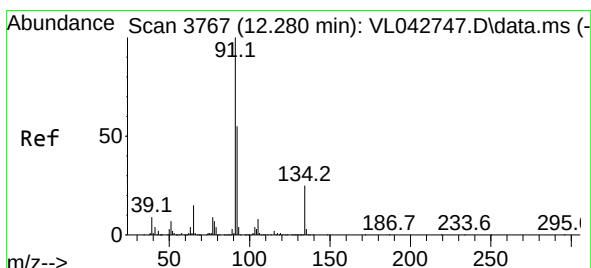
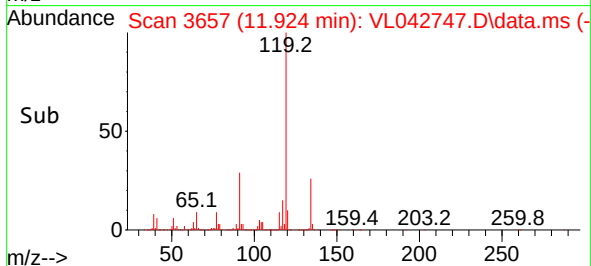
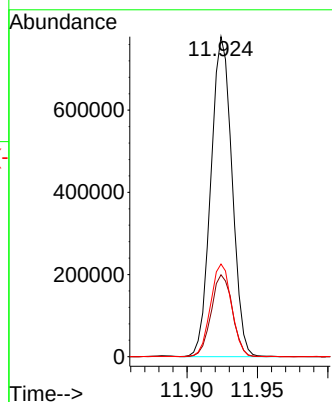
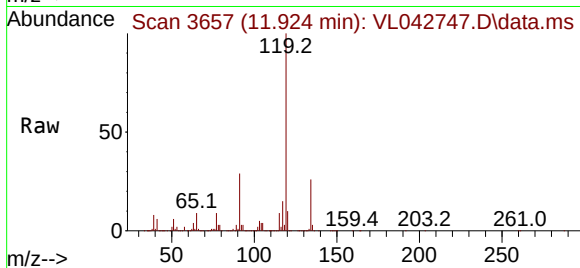
Tgt Ion:119 Resp: 814010

Ion Ratio Lower Upper

119 100

134 25.8 20.6 31.0

91 29.0 23.2 34.8



#70

n-Butylbenzene

Concen: 10.473 ppbv

RT: 12.280 min Scan# 3767

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

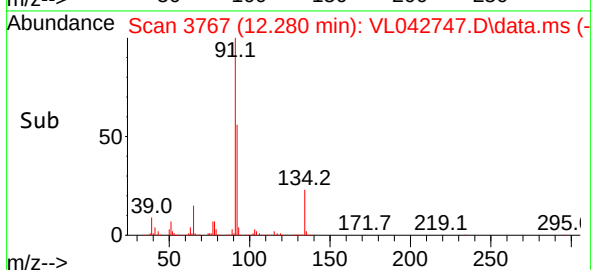
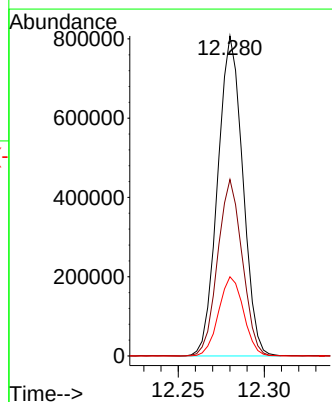
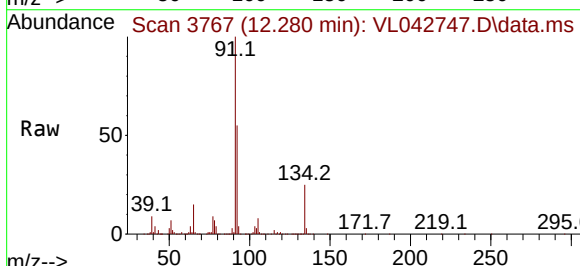
Tgt Ion: 91 Resp: 818457

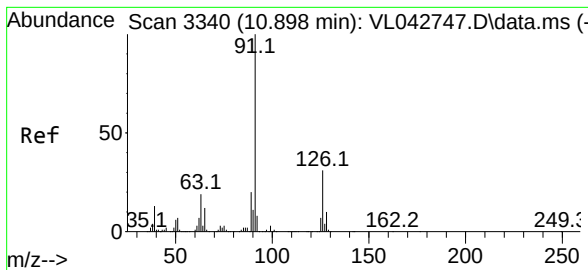
Ion Ratio Lower Upper

91 100

92 54.3 43.4 65.2

134 24.5 19.6 29.4

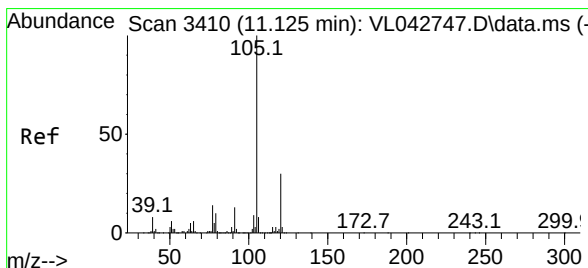
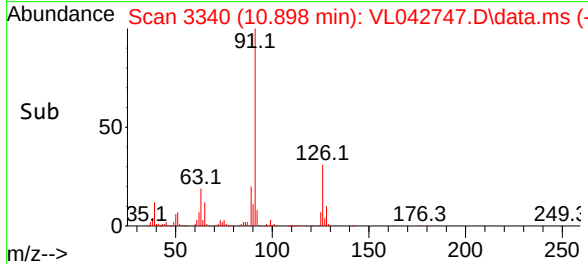
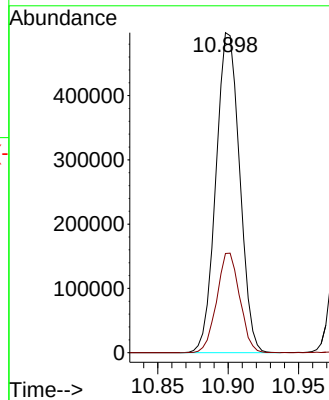
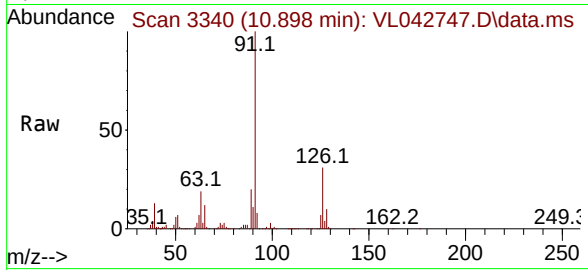




#71
2-Chlorotoluene
Concen: 9.708 ppbv
RT: 10.898 min Scan# 311
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

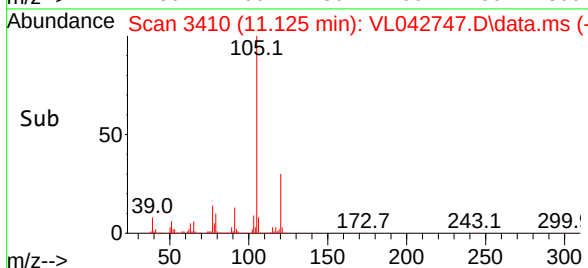
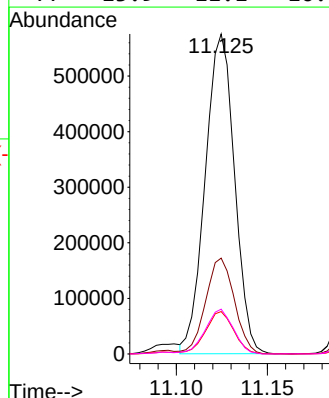
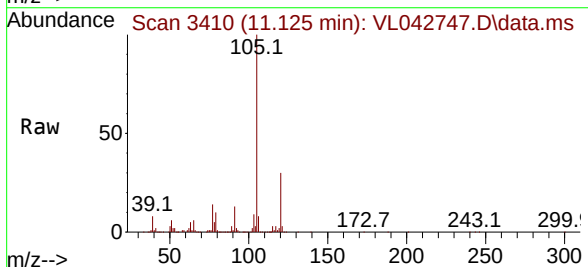
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

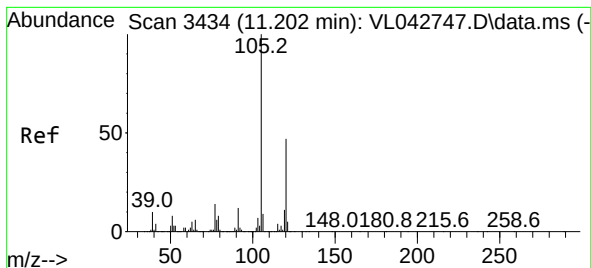
Tgt Ion: 91 Resp: 584629
Ion Ratio Lower Upper
91 100
126 30.1 12.0 48.2



#72
4-Ethyltoluene
Concen: 10.120 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:105 Resp: 643519
Ion Ratio Lower Upper
105 100
120 30.5 24.4 36.6
91 13.2 10.6 15.8
77 13.9 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.285 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

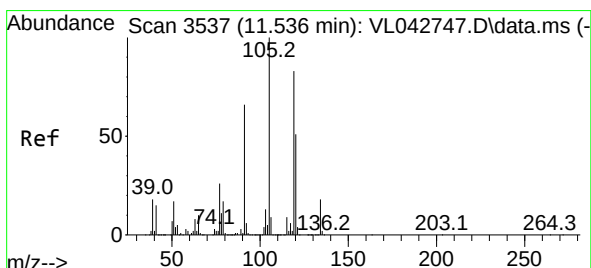
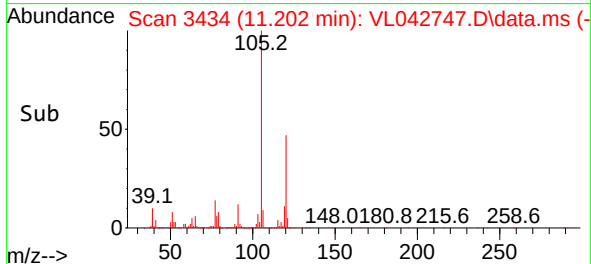
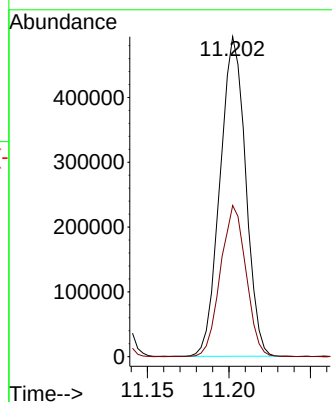
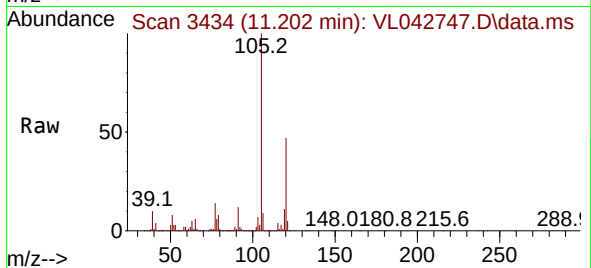
VSTDICCC010

Tgt Ion:105 Resp: 538451

Ion Ratio Lower Upper

105 100

120 47.3 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 10.232 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Tgt Ion:105 Resp: 584447

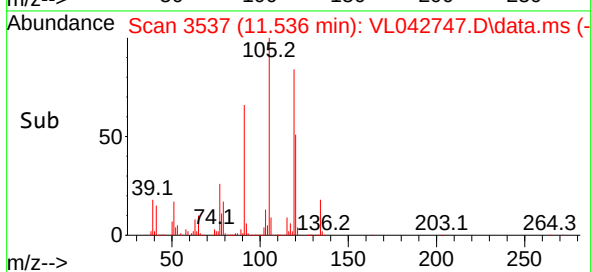
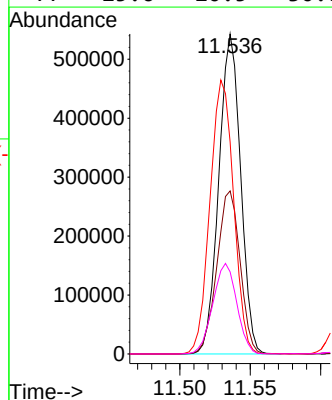
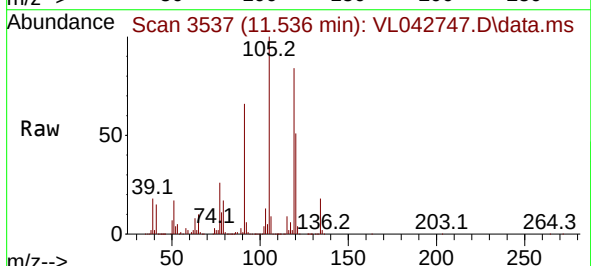
Ion Ratio Lower Upper

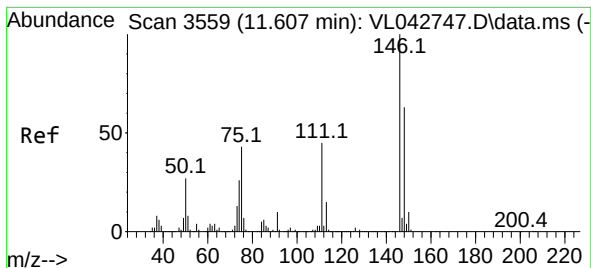
105 100

120 51.0 40.8 61.2

91 66.2 53.0 79.4

77 25.6 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 9.355 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

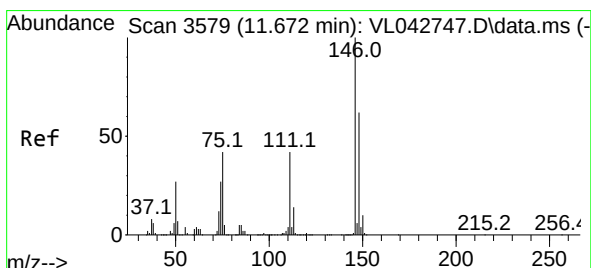
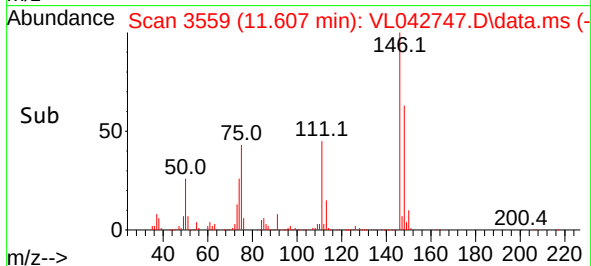
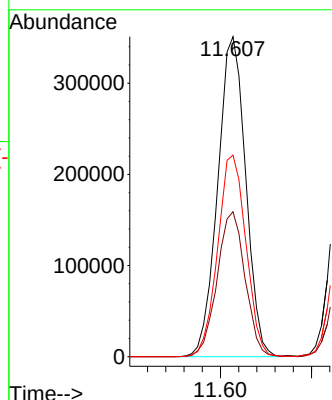
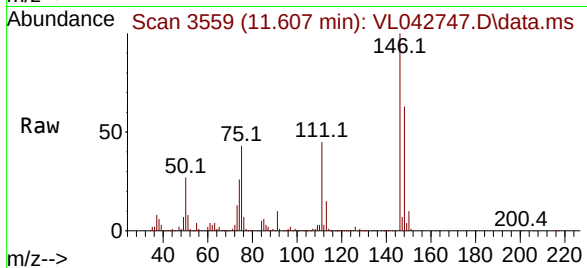
Tgt Ion:146 Resp: 374587

Ion Ratio Lower Upper

146 100

111 45.3 22.7 68.0

148 63.7 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 9.649 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

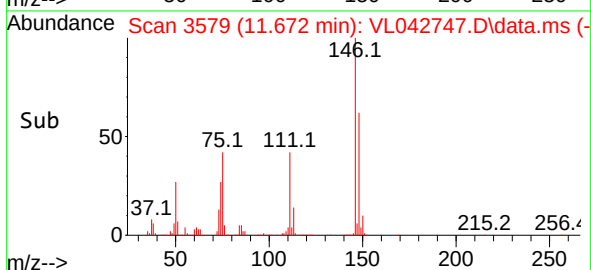
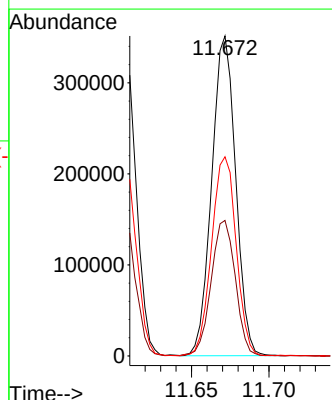
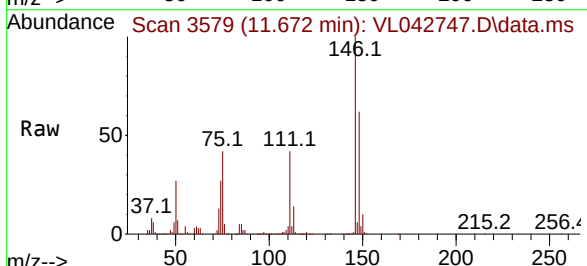
Tgt Ion:146 Resp: 378093

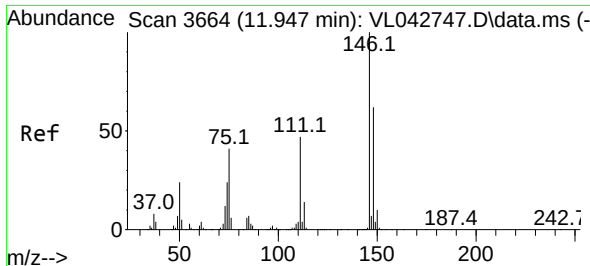
Ion Ratio Lower Upper

146 100

111 42.8 21.4 64.2

148 64.2 32.1 96.3

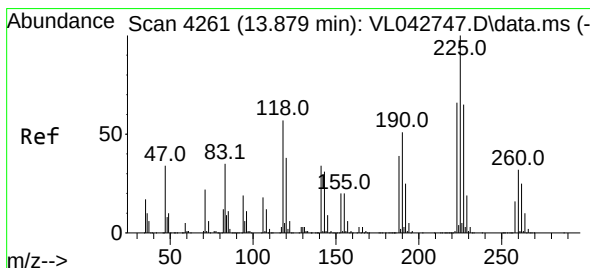
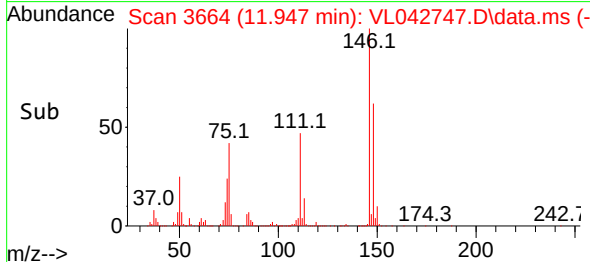
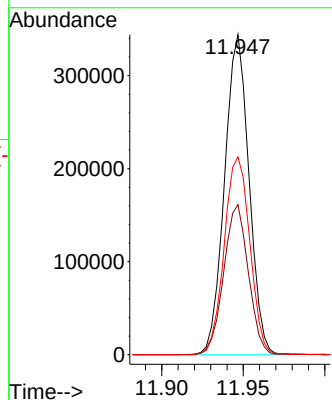
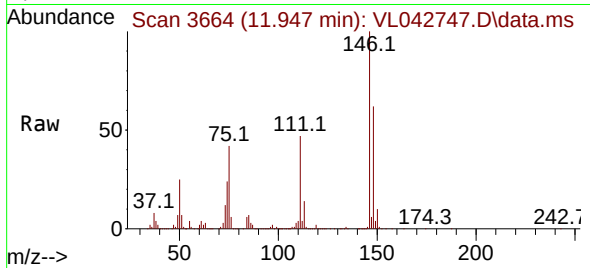




#77
1,2-Dichlorobenzene
Concen: 9.102 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

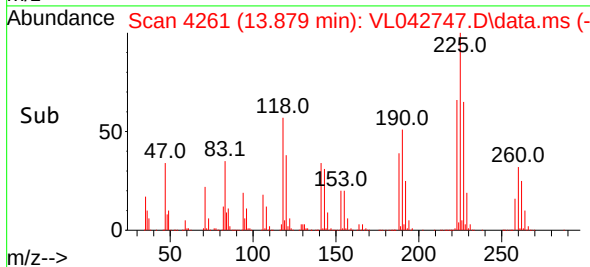
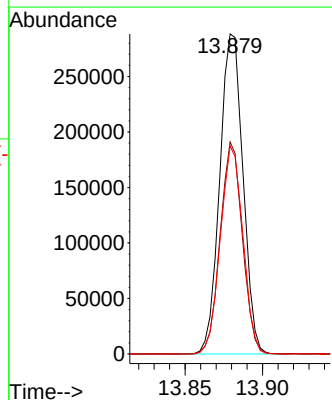
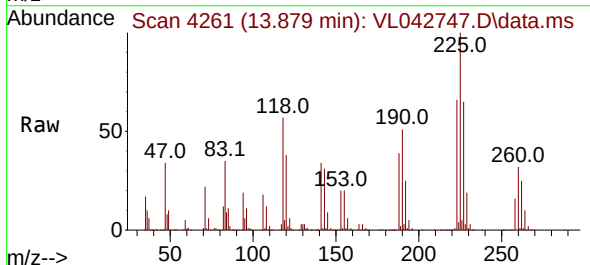
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

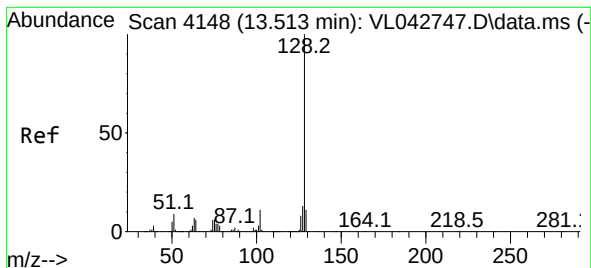
Tgt Ion:146 Resp: 358206
Ion Ratio Lower Upper
146 100
111 47.4 23.7 71.1
148 65.1 32.6 97.7



#78
Hexachloro-1,3-Butadiene
Concen: 8.444 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042747.D
Acq: 23 Jul 2025 08:58

Tgt Ion:225 Resp: 300801
Ion Ratio Lower Upper
225 100
223 63.4 50.7 76.1
227 63.1 50.5 75.7





#79

Naphthalene

Concen: 9.665 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

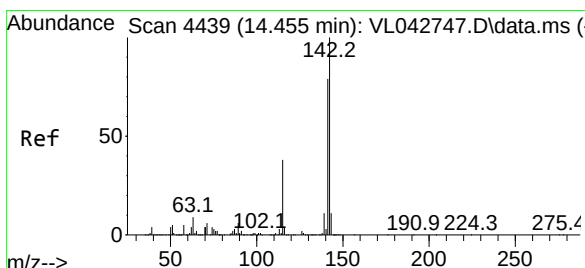
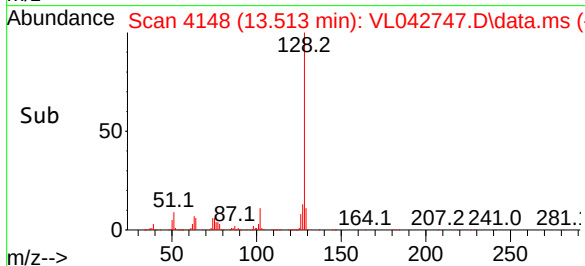
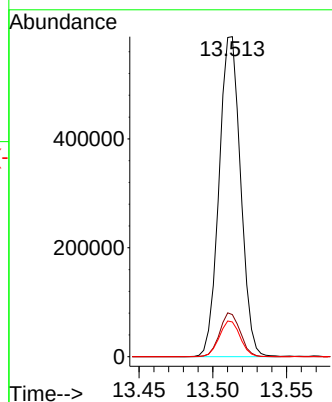
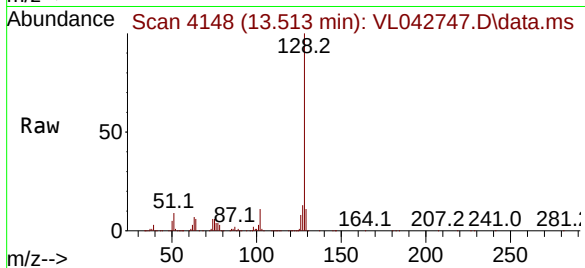
Tgt Ion:128 Resp: 598108

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

129 10.8 8.6 13.0



#80

Naphthalene,2-methyl-

Concen: 9.404 ppbv

RT: 14.455 min Scan# 4439

Delta R.T. 0.000 min

Lab File: VL042747.D

Acq: 23 Jul 2025 08:58

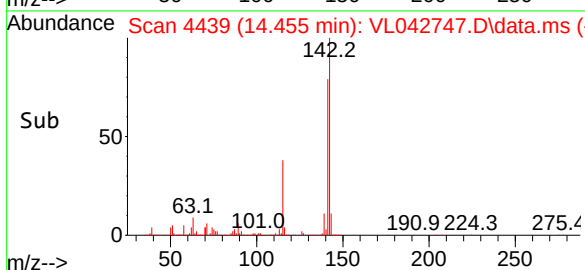
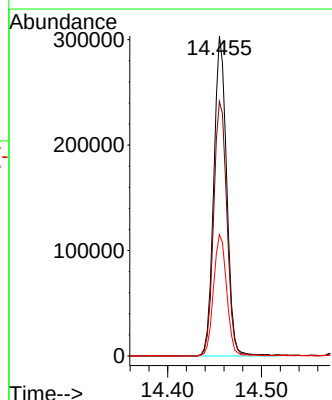
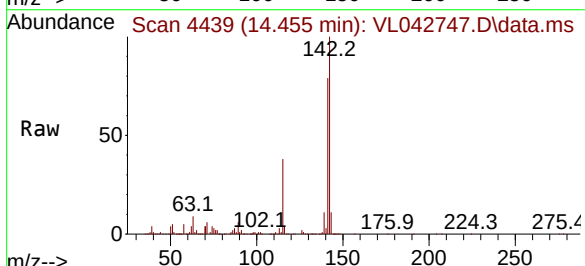
Tgt Ion:142 Resp: 289412

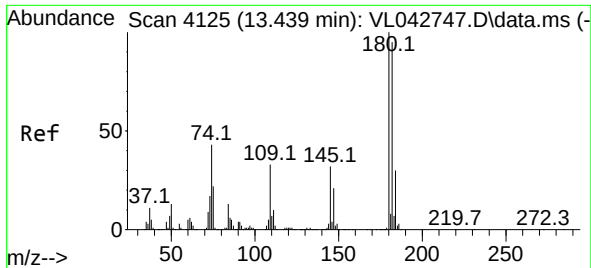
Ion Ratio Lower Upper

142 100

141 82.1 65.8 98.8

115 38.9 31.2 46.8





#81

1,2,4-Trichlorobenzene

Concen: 9.710 ppbv

RT: 13.439 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042747.D

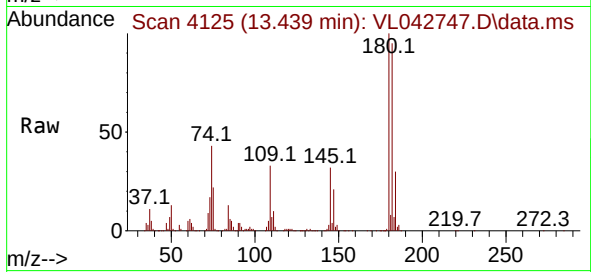
Acq: 23 Jul 2025 08:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



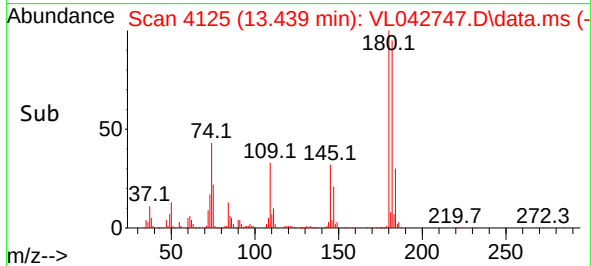
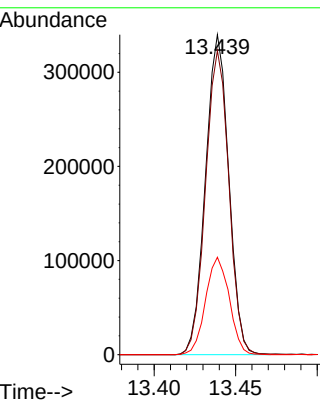
Tgt Ion:180 Resp: 337776

Ion Ratio Lower Upper

180 100

182 95.2 76.2 114.2

184 31.0 24.8 37.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042748.D
 Acq On : 23 Jul 2025 09:34
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Jul 24 04:56:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	158575	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	457804	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	410740	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	330476	10.160	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	43675	2.083	ppbv	98
3) Chlorodifluoromethane	1.473	51	56214	2.058	ppbv	99
4) Chloromethane	1.531	50	16834	1.985	ppbv	100
5) Vinyl Chloride	1.576	62	15384	1.836	ppbv	92
6) Bromomethane	1.664	94	5754	1.776	ppbv	83
7) Chloroethane	1.703	64	6001	1.853	ppbv	93
8) Dichlorotetrafluoroethane	1.554	85	35629	2.066	ppbv	100
9) Propene	1.483	41	21592	2.175	ppbv	97
10) Heptane	4.965	43	28682	1.074	ppbv #	32
11) Trichlorofluoromethane	1.874	101	44770	2.072	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.136	101	33910	2.065	ppbv	99
13) Ethanol	1.719	45	2321	2.155	ppbv	78
14) Bromoethene	1.780	108	12078	2.077	ppbv #	96
15) Acetone	1.832	43	48226	2.202	ppbv	100
16) 1,3-Butadiene	1.606	39	18504	1.981	ppbv	96
17) tert-Butyl alcohol	2.036	59	40135	2.032	ppbv #	93
18) 1,1-Dichloroethene	2.030	96	14381	1.938	ppbv	93
19) Isopropyl Alcohol	1.884	45	23028	1.979	ppbv #	75
20) Methylene Chloride	2.059	84	13296	1.927	ppbv	97
21) Allyl Chloride	2.091	41	27789	2.059	ppbv	97
22) trans-1,2-Dichloroethene	2.030	96	14381	1.804	ppbv	91
23) Vinyl Acetate	2.457	43	53544	2.017	ppbv #	98
24) 1,1-Dichloroethane	2.405	63	33969	2.073	ppbv	99
25) Ethyl Acetate	2.832	43	101853	2.101	ppbv	99
26) Hexane	2.822	57	45446	2.137	ppbv	99
27) Carbon Disulfide	2.146	76	36945	2.030	ppbv #	36
28) Methyl tert-Butyl Ether	2.437	73	20603	2.051	ppbv	96
29) Chloroform	2.842	83	67755	2.062	ppbv	97
30) Cyclohexane	3.845	84	19383	1.075	ppbv #	1
31) cis-1,2-Dichloroethene	2.716	61	44860	2.053	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	67608	1.976	ppbv	98
34) 2-Butanone	2.551	43	69674	2.149	ppbv	99
35) Carbon Tetrachloride	3.755	117	67338	1.979	ppbv	97
36) Benzene	3.648	78	91141	2.101	ppbv	94
37) 1,2-Dichloroethane	3.211	62	53482	2.046	ppbv	98
38) Trichloroethene	4.538	130	40713	1.946	ppbv	90
39) 1,2-Dichloropropane	4.305	63	33225	2.075	ppbv	94
40) 1,4-Dioxane	4.583	88	14747	1.953	ppbv #	69
41) Tetrahydrofuran	3.052	42	33618	2.064	ppbv	94
42) Bromodichloromethane	4.480	83	69093	2.028	ppbv	94
43) Methyl Methacrylate	4.871	69	30336	1.967	ppbv	95
44) 2,2,4-Trimethylpentane	4.632	57	149588	2.115	ppbv	99
45) t-1,3-Dichloropropene	6.399	75	16554	0.957	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042748.D
 Acq On : 23 Jul 2025 09:34
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

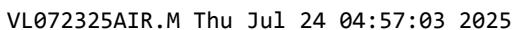
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

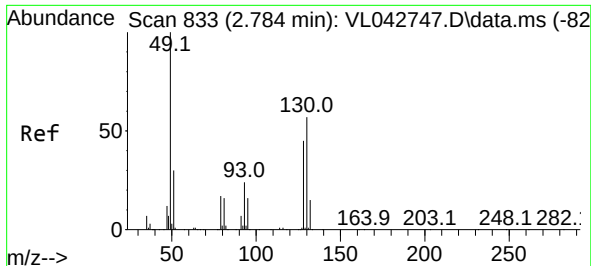
Quant Time: Jul 24 04:56:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.583	75	23760	1.084	ppbv	95
47) 1,1,2-Trichloroethane	6.567	97	16867	0.988	ppbv	94
48) Dibromochloromethane	7.380	129	54906	2.026	ppbv	96
49) Bromoform	9.477	173	47340	2.003	ppbv	96
50) 4-Methyl-2-Pentanone	5.742	43	39913	0.966	ppbv #	28
51) 2-Hexanone	7.431	43	68093	2.157	ppbv #	99
52) Tetrachloroethene	8.215	164	34568	1.917	ppbv	94
53) Toluene	6.923	91	98346	2.111	ppbv	100
54) 1,2-Dibromoethane	7.645	107	49346	2.042	ppbv	91
56) 1,1,1,2-Tetrachloroethane	8.920	131	44409	2.079	ppbv	92
57) Chlorobenzene	8.914	112	83503	2.101	ppbv #	92
58) Ethyl Benzene	9.348	91	143251	2.208	ppbv	97
59) m/p-Xylene	9.545	91	91147	1.758	ppbv #	30
60) o-Xylene	9.956	91	113462	2.190	ppbv	99
61) Styrene	9.865	104	45351	2.081	ppbv	100
62) Isopropylbenzene	10.535	105	167108	2.187	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	65928	1.954	ppbv	100
64) n-propylbenzene	10.982	120	43789	2.198	ppbv	98
65) tert-Butylbenzene	11.526	119	151081	2.226	ppbv	98
66) Benzyl Chloride	11.610	91	10485	1.882	ppbv	98
67) sec-Butylbenzene	11.762	105	212925	2.206	ppbv	99
69) p-Isopropyltoluene	11.921	119	175553	2.230	ppbv	99
70) n-Butylbenzene	12.277	91	171675	2.258	ppbv	99
71) 2-Chlorotoluene	10.898	91	125039	2.134	ppbv	98
72) 4-Ethyltoluene	11.121	105	134097	2.168	ppbv	98
73) 1,3,5-Trimethylbenzene	11.199	105	108055	2.122	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	122295	2.201	ppbv	95
75) 1,3-Dichlorobenzene	11.600	146	85254	2.188	ppbv	99
76) 1,4-Dichlorobenzene	11.665	146	83440	2.189	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	82311	2.150	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	78291	2.259	ppbv	99
79) Naphthalene	13.510	128	79191	1.690	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	5851	1.298	ppbv	90
81) 1,2,4-Trichlorobenzene	13.435	180	51515	1.888	ppbv	99

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

Quant Time: Jul 24 04:56:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

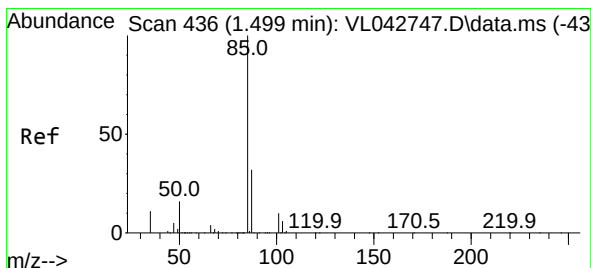
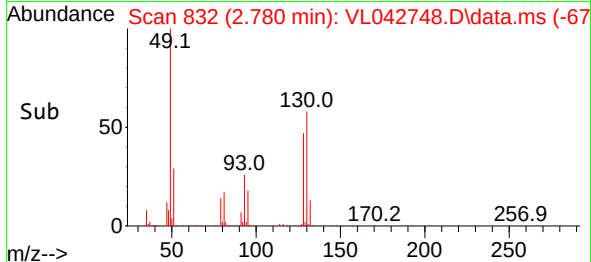
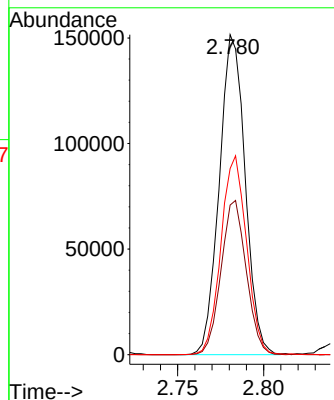
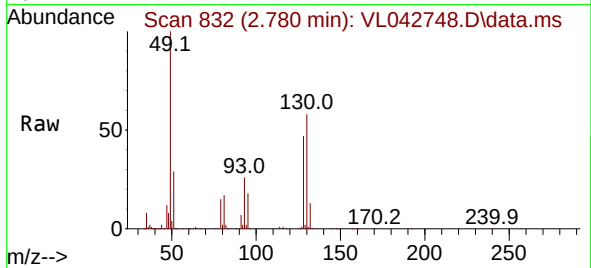




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. -0.004 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

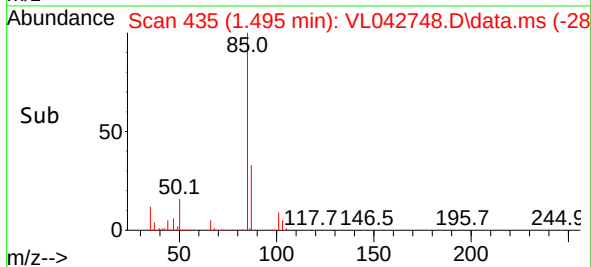
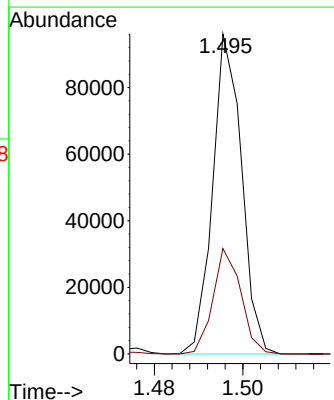
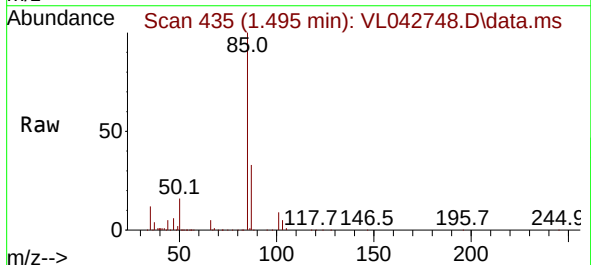
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

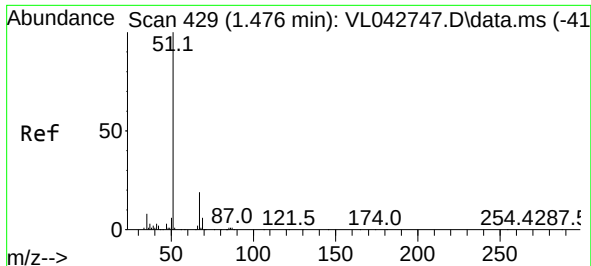
Tgt Ion: 49 Resp: 158575
Ion Ratio Lower Upper
49 100
128 47.0 23.6 71.0
130 61.6 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 2.083 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 85 Resp: 43675
Ion Ratio Lower Upper
85 100
87 33.0 25.4 38.2

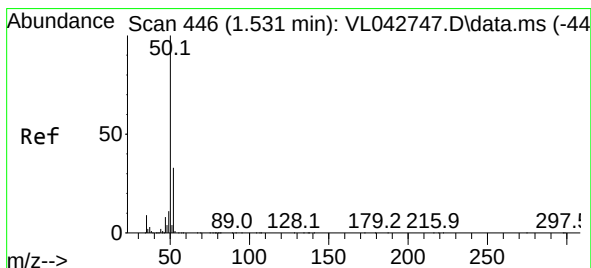
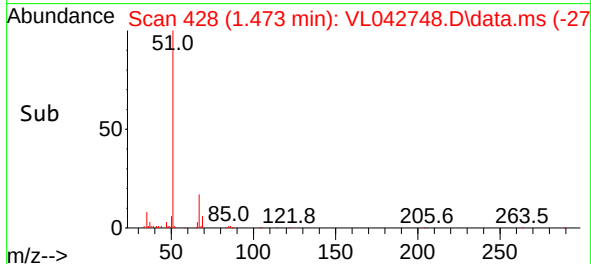
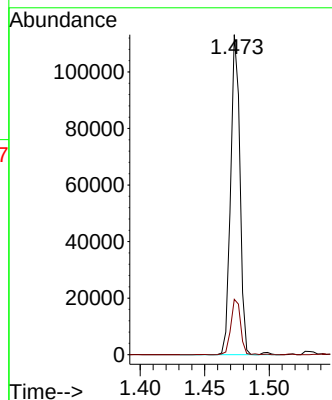
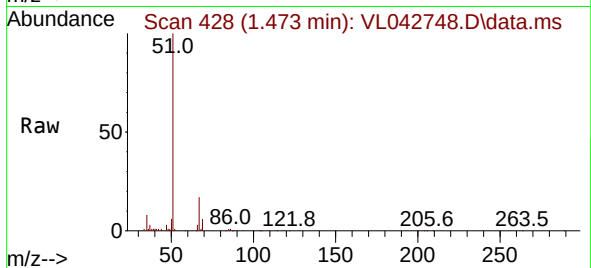




#3
Chlorodifluoromethane
Concen: 2.058 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

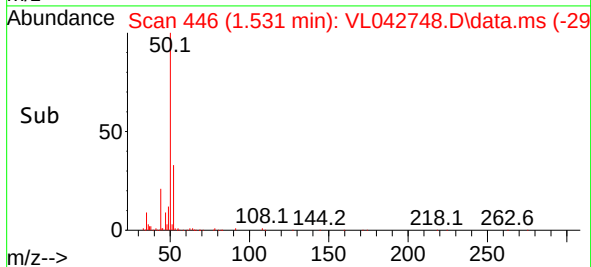
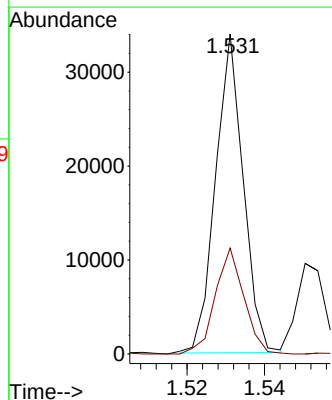
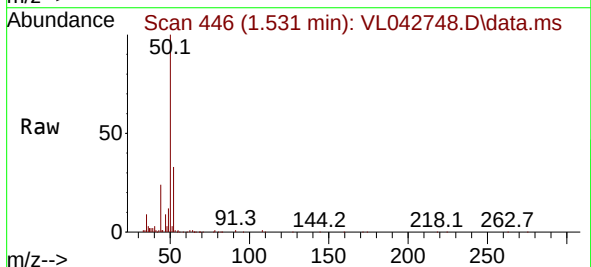
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

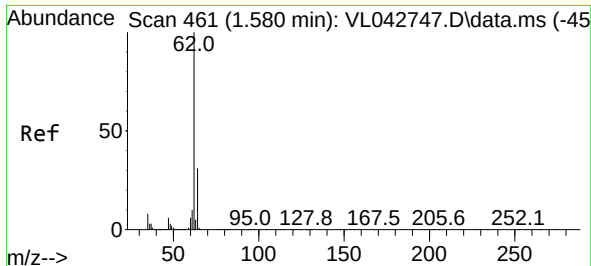
Tgt Ion: 51 Resp: 56214
Ion Ratio Lower Upper
51 100
67 18.3 15.0 22.6



#4
Chloromethane
Concen: 1.985 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 50 Resp: 16834
Ion Ratio Lower Upper
50 100
52 33.1 26.6 40.0

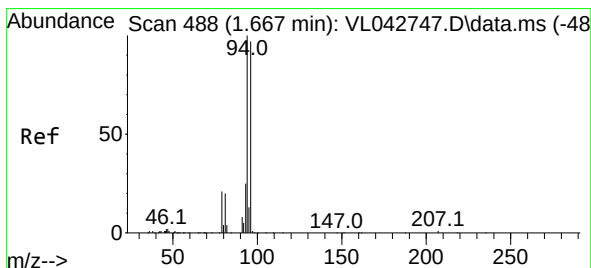
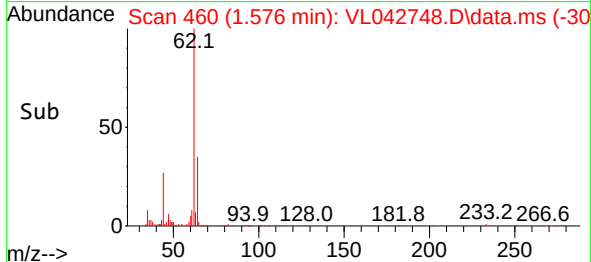
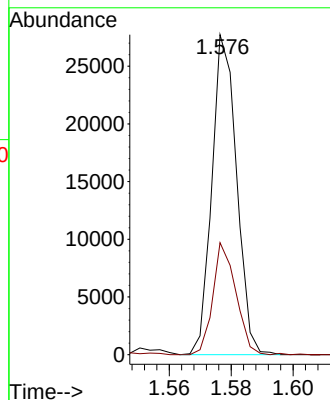
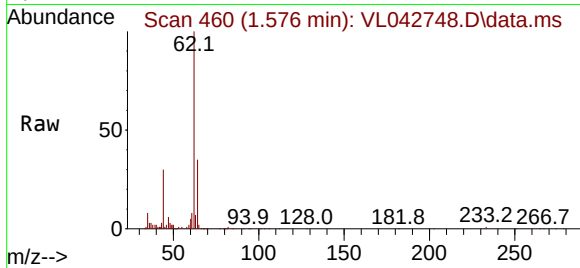




#5
 Vinyl Chloride
 Concen: 1.836 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

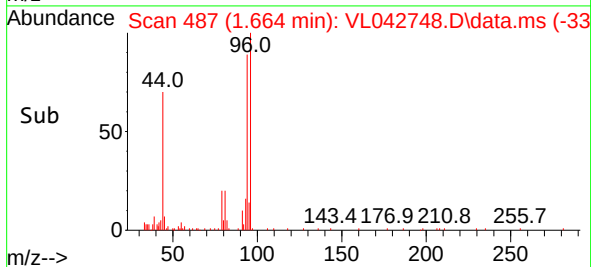
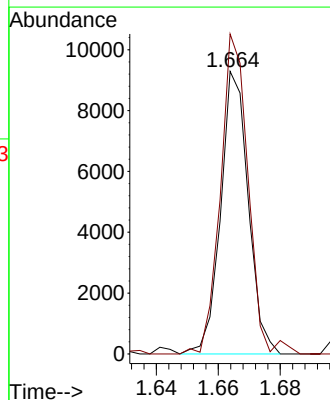
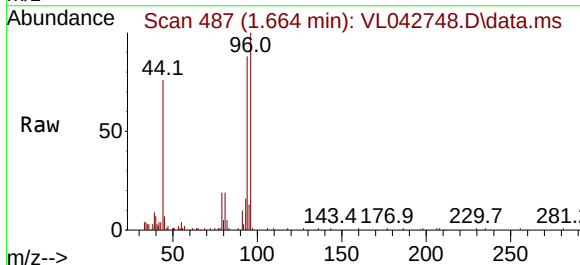
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

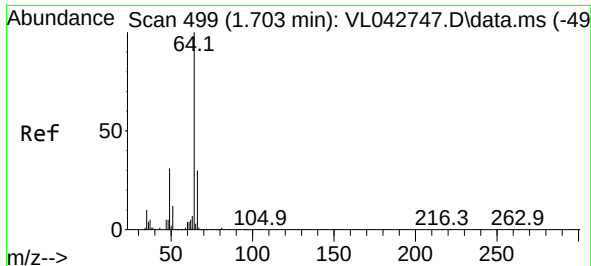
Tgt Ion: 62 Resp: 15384
 Ion Ratio Lower Upper
 62 100
 64 35.0 24.5 36.7



#6
 Bromomethane
 Concen: 1.776 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion: 94 Resp: 5754
 Ion Ratio Lower Upper
 94 100
 96 113.3 77.6 116.4

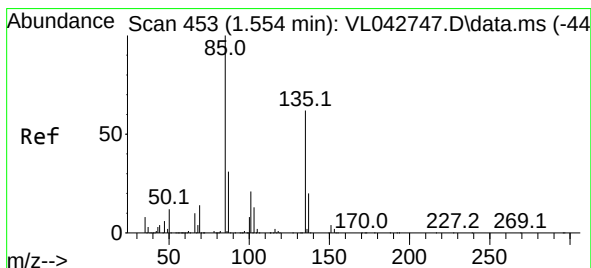
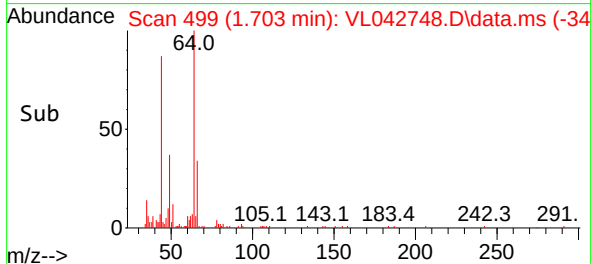
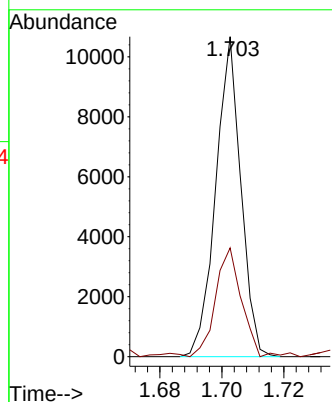
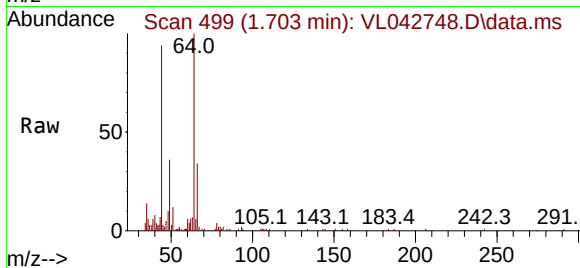




#7
Chloroethane
Concen: 1.853 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

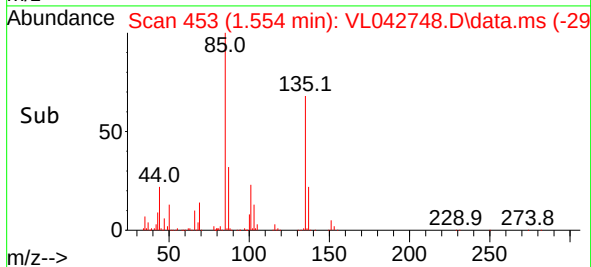
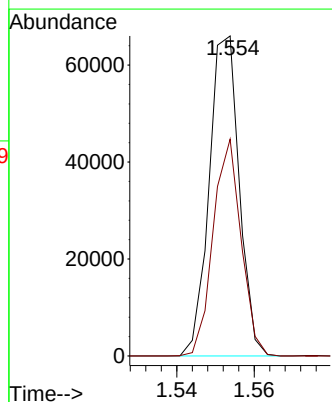
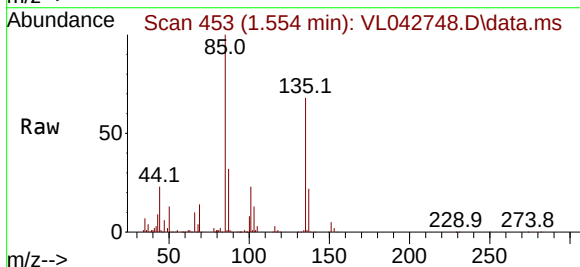
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

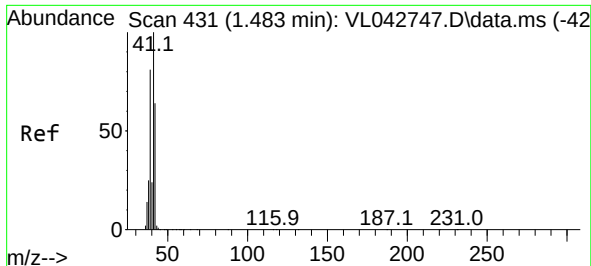
Tgt Ion: 64 Resp: 6001
Ion Ratio Lower Upper
64 100
66 34.0 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 2.066 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 85 Resp: 35629
Ion Ratio Lower Upper
85 100
135 63.0 50.6 76.0





#9

Propene

Concen: 2.175 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

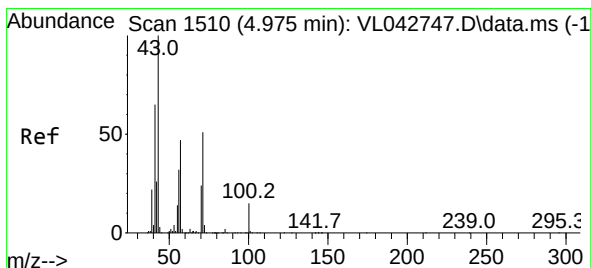
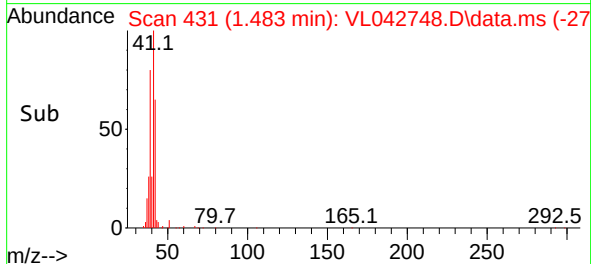
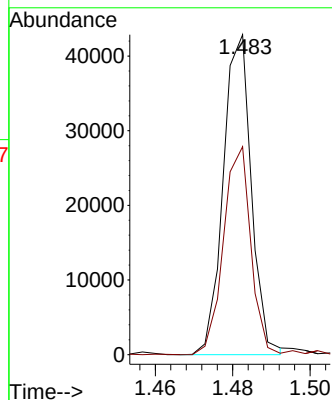
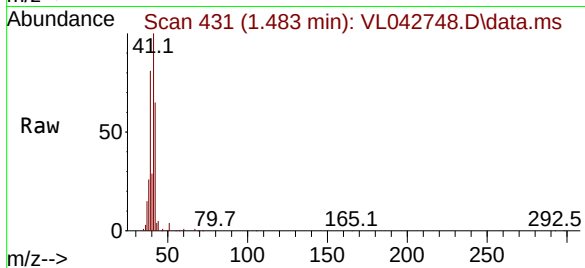
VSTDIC002

Tgt Ion: 41 Resp: 21592

Ion Ratio Lower Upper

41 100

42 64.5 53.2 79.8



#10

Heptane

Concen: 1.074 ppbv

RT: 4.965 min Scan# 1507

Delta R.T. -0.010 min

Lab File: VL042748.D

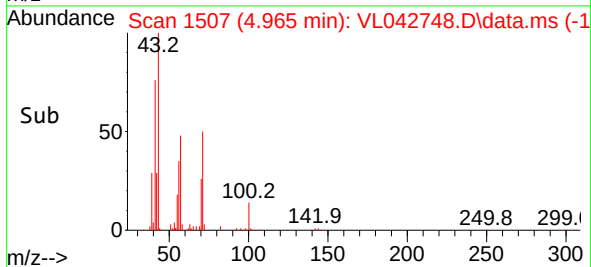
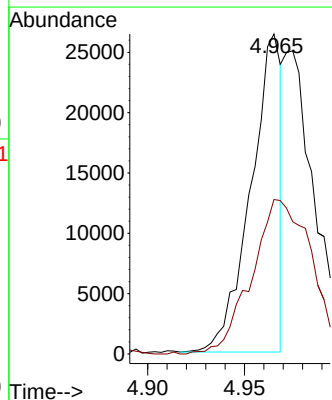
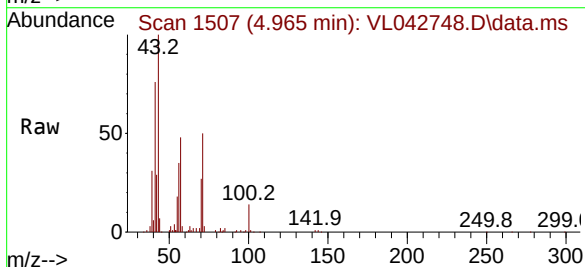
Acq: 23 Jul 2025 09:34

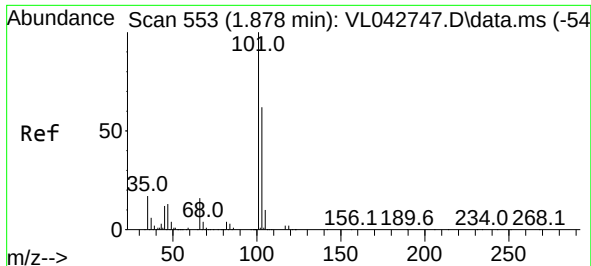
Tgt Ion: 43 Resp: 28682

Ion Ratio Lower Upper

43 100

57 97.0 39.9 59.9#

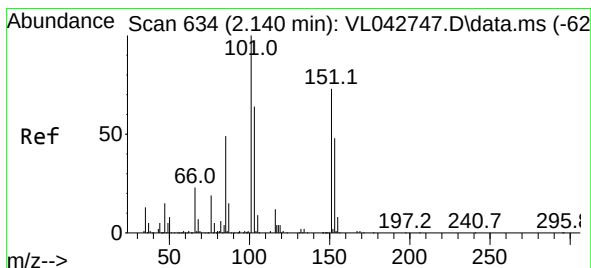
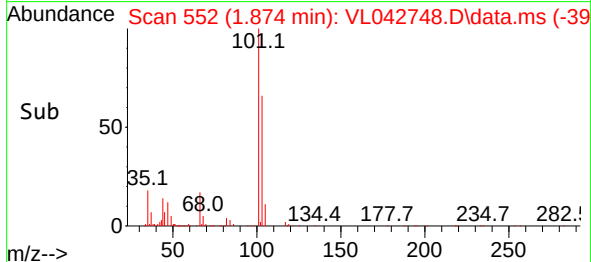
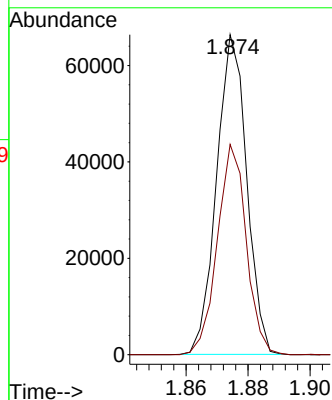
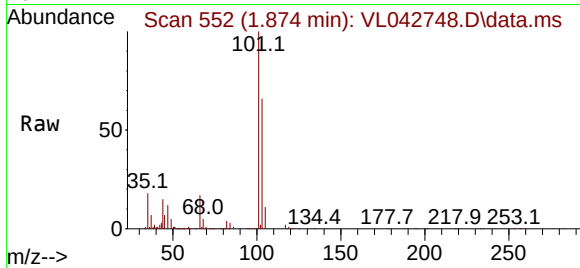




#11
Trichlorofluoromethane
Concen: 2.072 ppbv
RT: 1.874 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

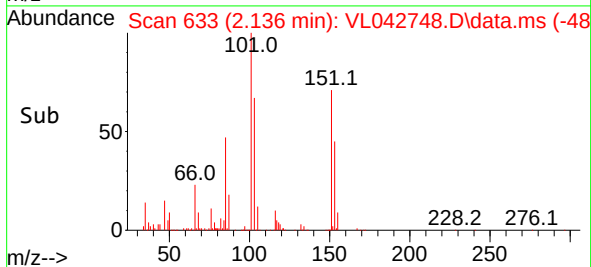
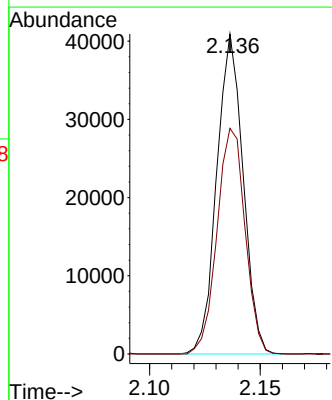
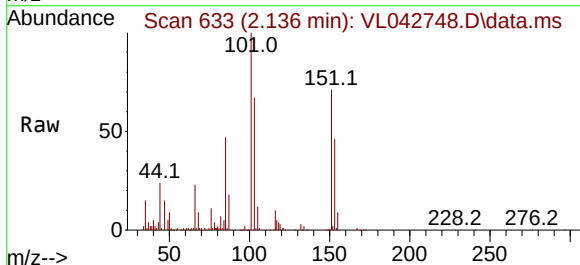
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

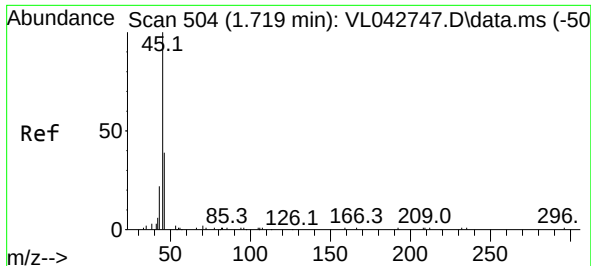
Tgt Ion:101 Resp: 44770
Ion Ratio Lower Upper
101 100
103 65.8 49.6 74.4



#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.065 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:101 Resp: 33910
Ion Ratio Lower Upper
101 100
151 74.9 60.5 90.7

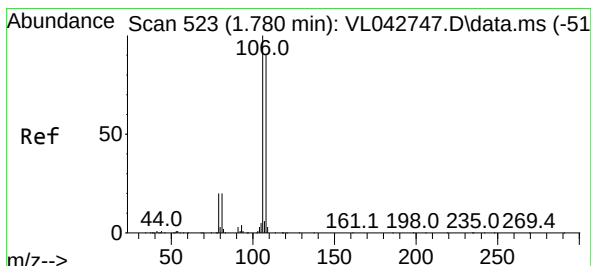
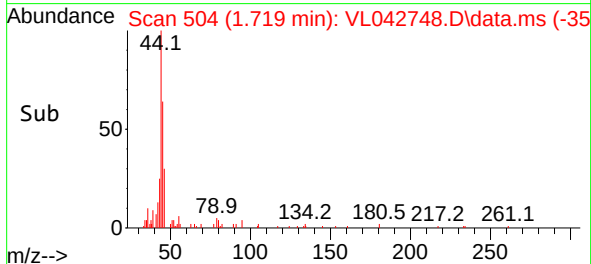
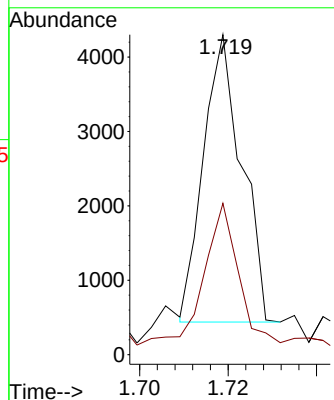
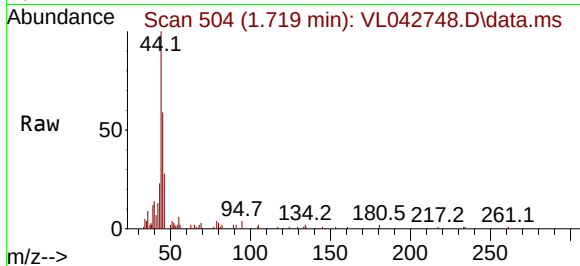




#13
Ethanol
Concen: 2.155 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

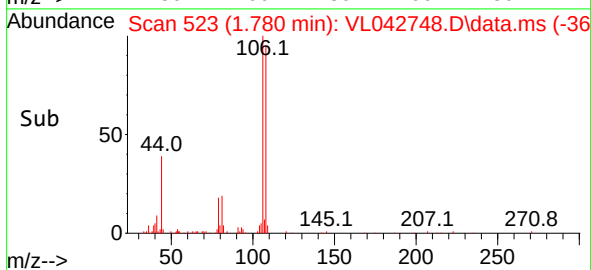
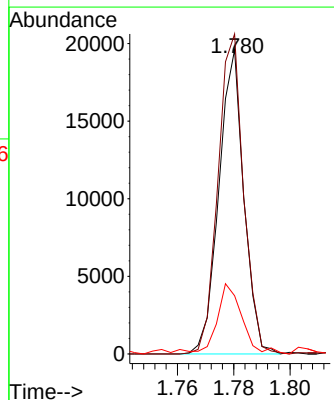
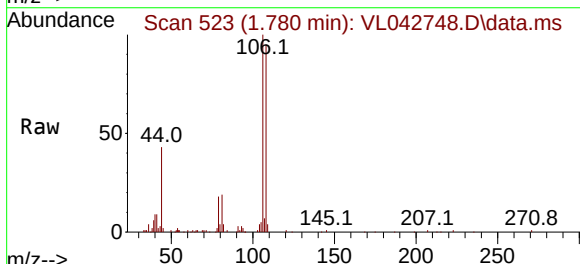
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

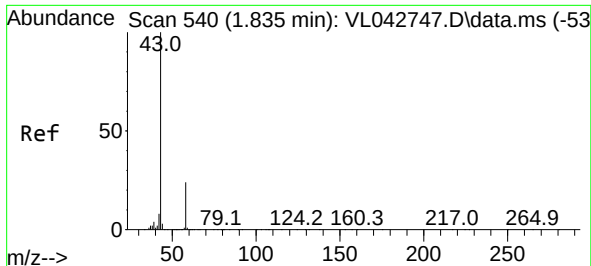
Tgt Ion: 45 Resp: 2321
Ion Ratio Lower Upper
45 100
46 58.7 17.8 71.4



#14
Bromoethene
Concen: 2.077 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 108 Resp: 12078
Ion Ratio Lower Upper
108 100
106 107.6 84.7 127.1
79 29.2 17.4 26.2#

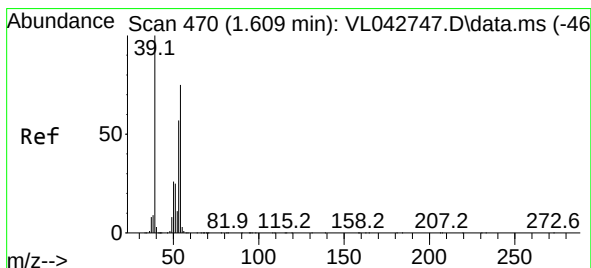
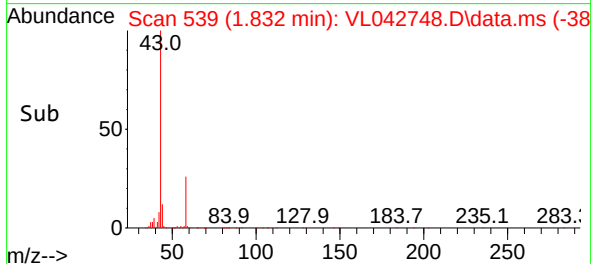
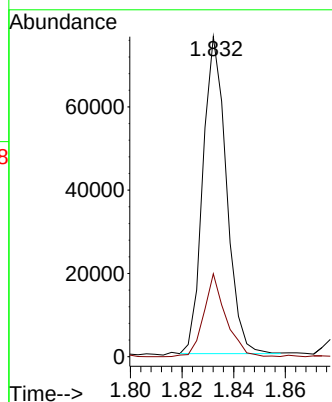
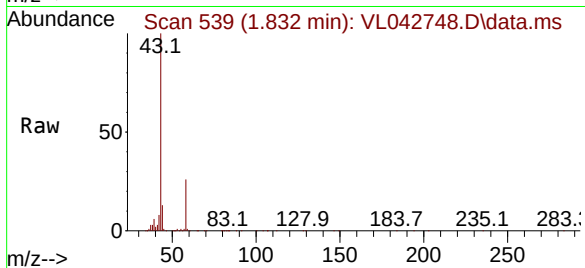




#15
Acetone
Concen: 2.202 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

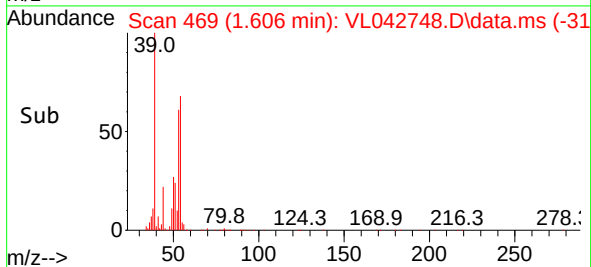
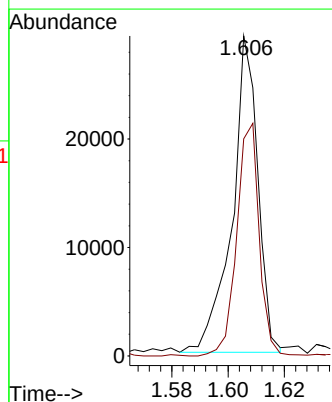
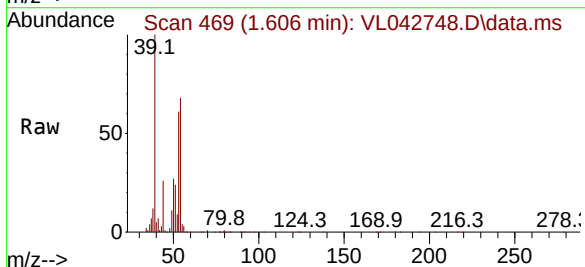
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

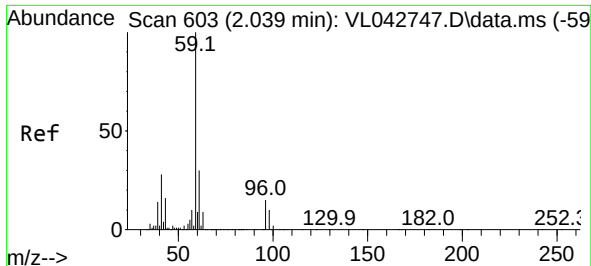
Tgt Ion: 43 Resp: 48226
Ion Ratio Lower Upper
43 100
58 25.0 19.8 29.8



#16
1,3-Butadiene
Concen: 1.981 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 39 Resp: 18504
Ion Ratio Lower Upper
39 100
54 65.0 54.5 81.7





#17

tert-Butyl alcohol

Concen: 2.032 ppbv

RT: 2.036 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_1

ClientSampleId :

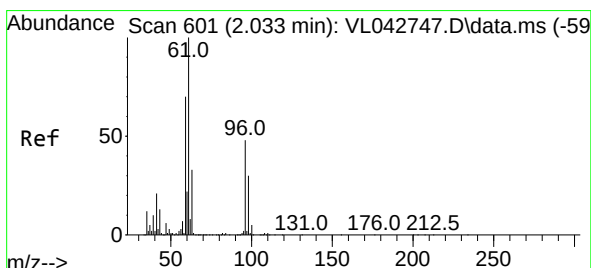
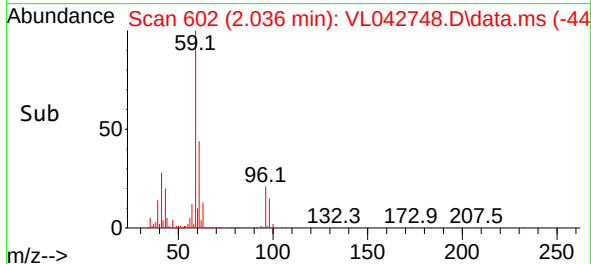
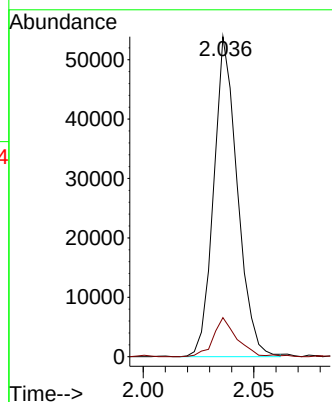
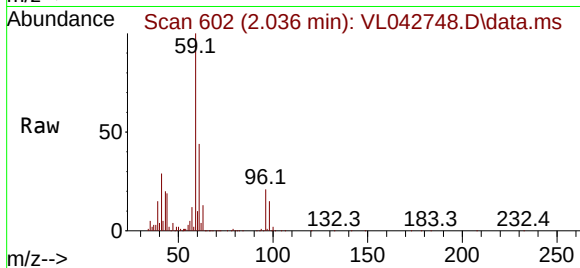
VSTDIC002

Tgt Ion: 59 Resp: 40135

Ion Ratio Lower Upper

59 100

57 12.9 8.3 12.5#



#18

1,1-Dichloroethene

Concen: 1.938 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

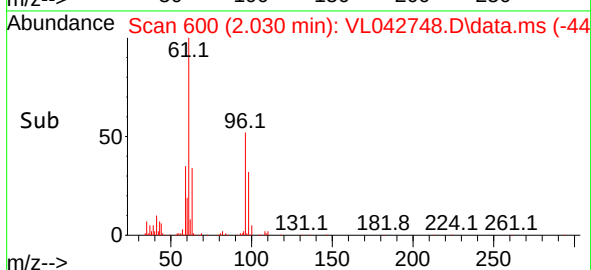
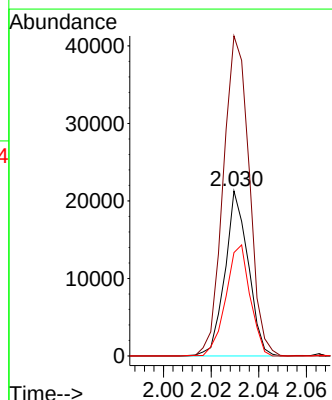
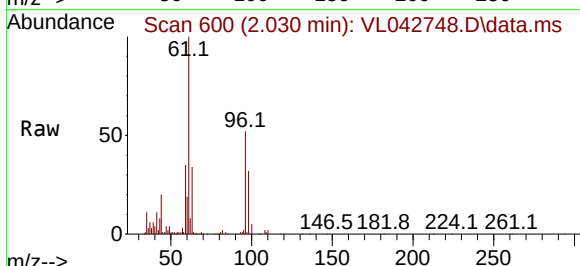
Tgt Ion: 96 Resp: 14381

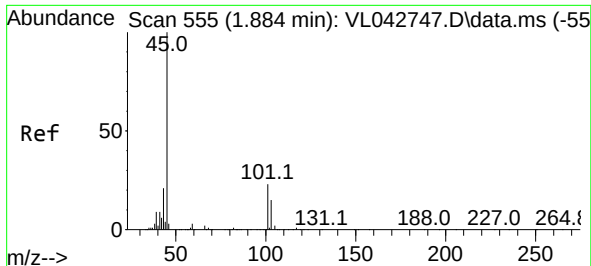
Ion Ratio Lower Upper

96 100

61 193.9 165.8 248.6

98 62.7 49.9 74.9

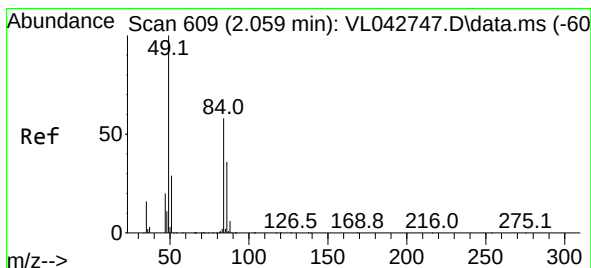
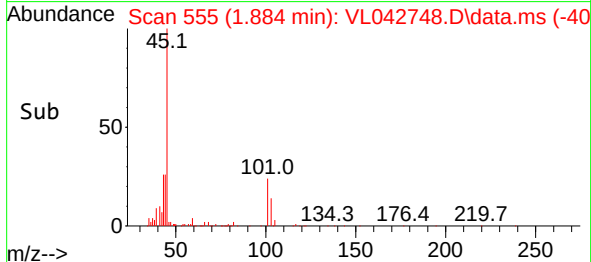
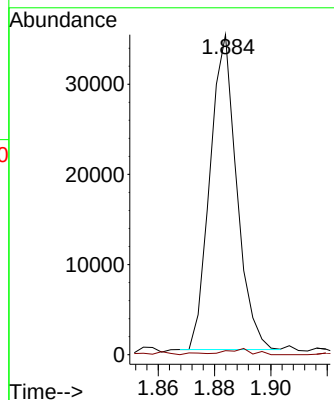
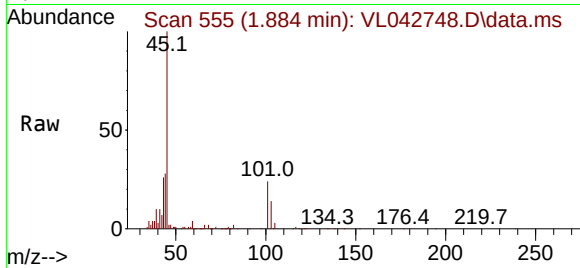




#19
Isopropyl Alcohol
Concen: 1.979 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

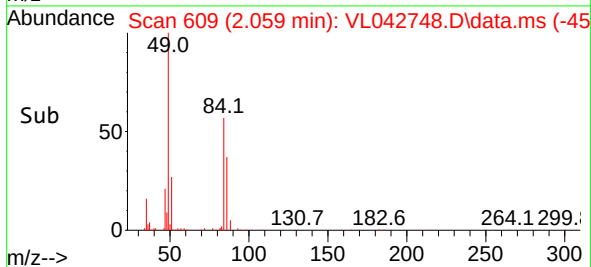
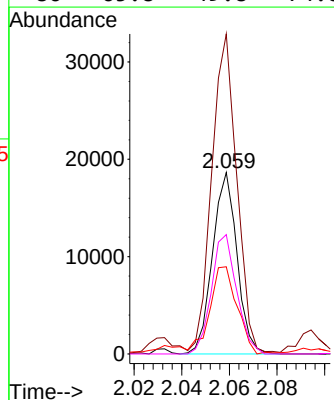
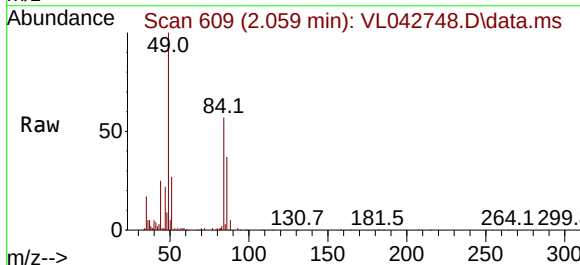
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

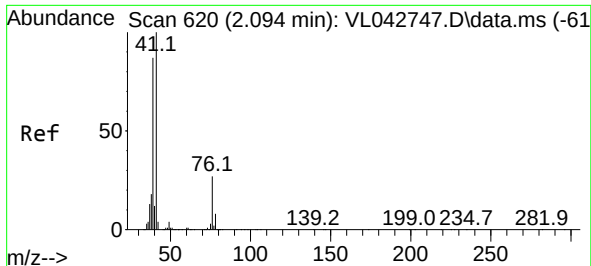
Tgt Ion: 45 Resp: 23028
Ion Ratio Lower Upper
45 100
58 52.5 30.0 45.0#



#20
Methylene Chloride
Concen: 1.927 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 84 Resp: 13296
Ion Ratio Lower Upper
84 100
49 175.4 138.6 208.0
51 47.4 40.6 61.0
86 65.8 49.8 74.8

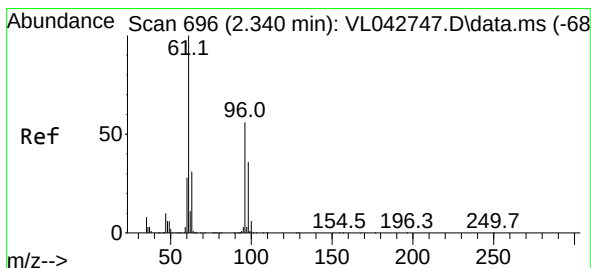
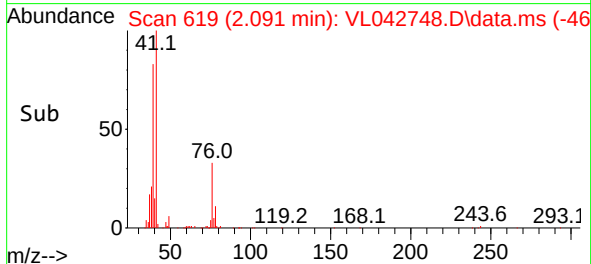
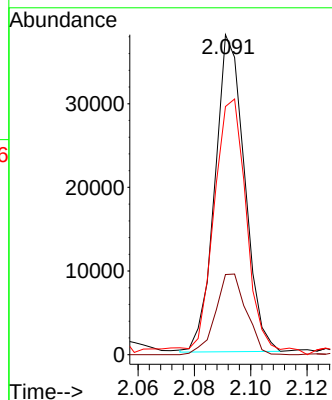
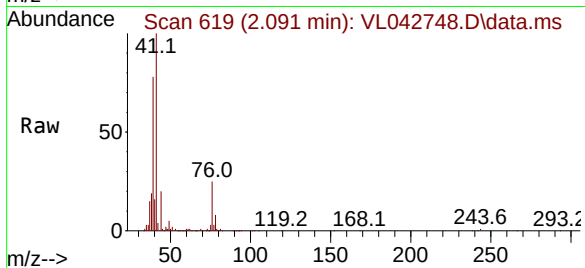




#21
 Allyl Chloride
 Concen: 2.059 ppbv
 RT: 2.091 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

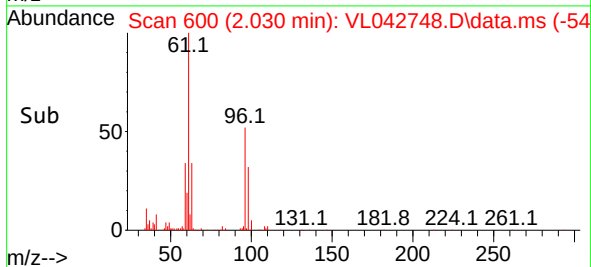
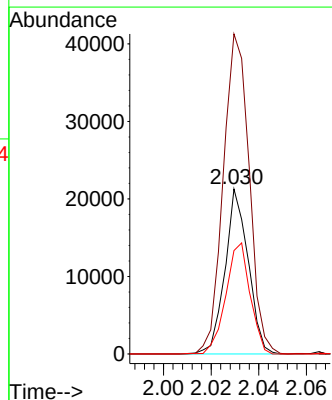
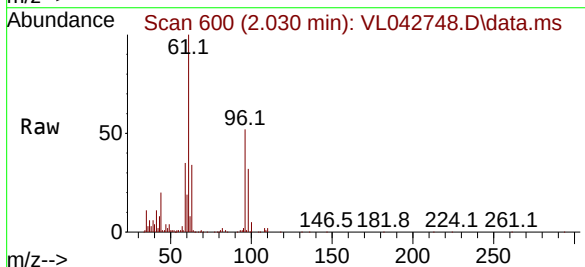
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

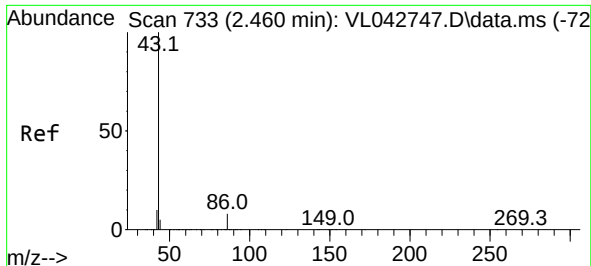
Tgt Ion: 41 Resp: 27789
 Ion Ratio Lower Upper
 41 100
 76 26.3 21.1 31.7
 39 89.5 68.3 102.5



#22
 trans-1,2-Dichloroethene
 Concen: 1.804 ppbv
 RT: 2.030 min Scan# 600
 Delta R.T. -0.311 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion: 96 Resp: 14381
 Ion Ratio Lower Upper
 96 100
 61 193.9 142.3 213.5
 98 62.7 50.6 76.0

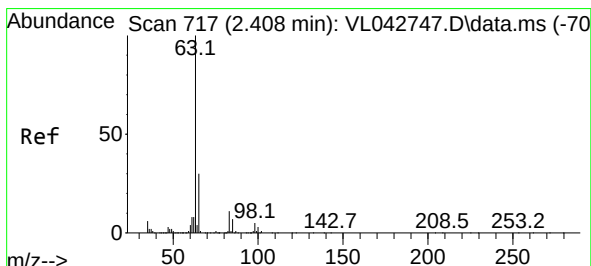
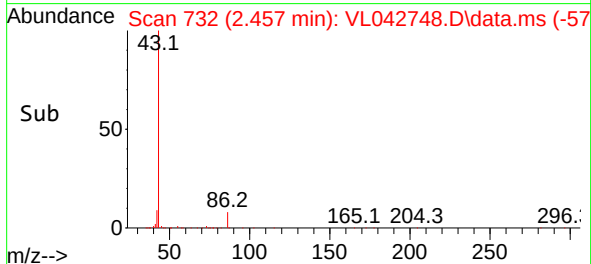
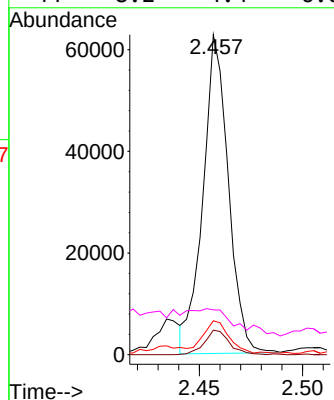
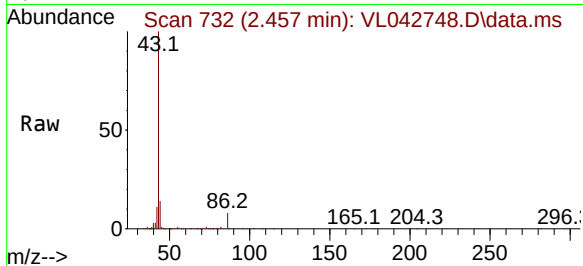




#23
 Vinyl Acetate
 Concen: 2.017 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

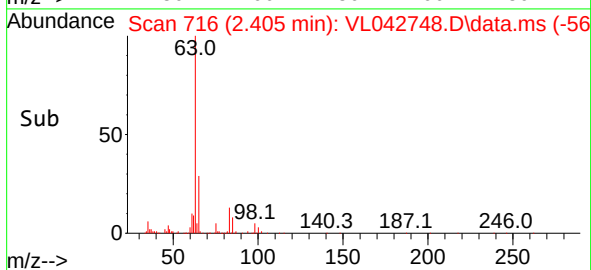
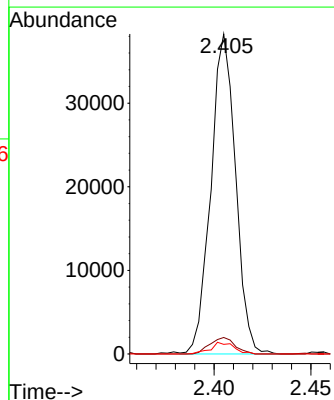
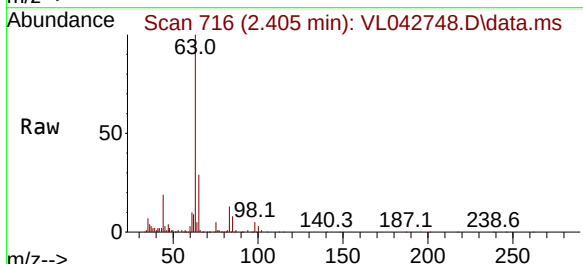
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

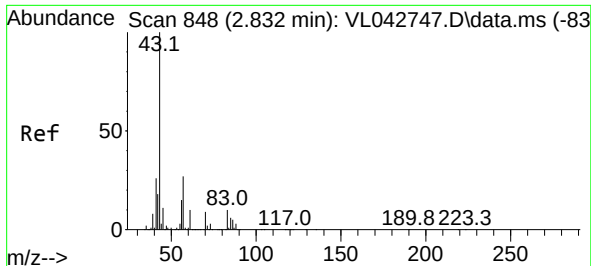
Tgt Ion:	43	Resp:	53544
Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.1	9.1
42	10.1	7.8	11.8
44	8.2	4.4	6.6



#24
 1,1-Dichloroethane
 Concen: 2.073 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion:	63	Resp:	33969
Ion	Ratio	Lower	Upper
63	100		
98	5.2	2.5	7.4
100	3.0	1.6	4.8





#25

Ethyl Acetate

Concen: 2.101 ppbv

RT: 2.832 min Scan# 84

Delta R.T. -0.000 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 43 Resp: 101853

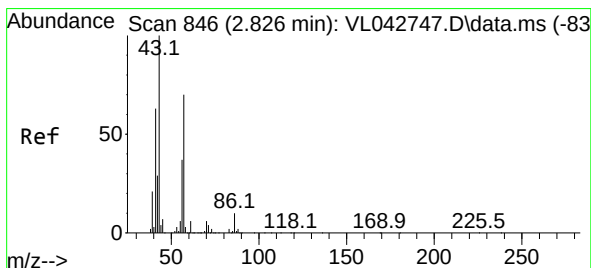
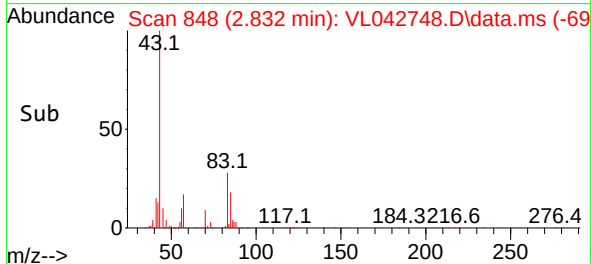
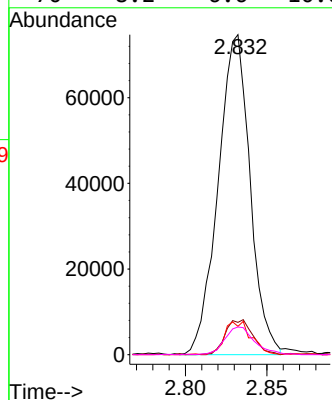
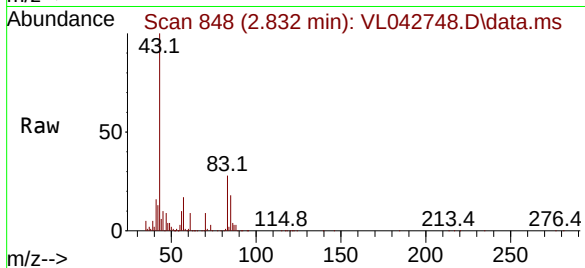
Ion Ratio Lower Upper

43 100

45 9.9 7.8 11.6

61 8.9 6.7 10.1

70 8.2 6.6 10.0



#26

Hexane

Concen: 2.137 ppbv

RT: 2.822 min Scan# 845

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Tgt Ion: 57 Resp: 45446

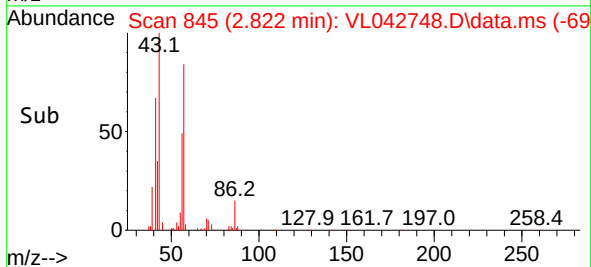
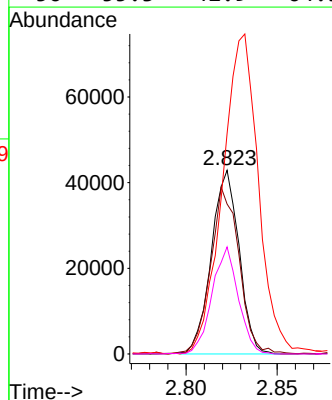
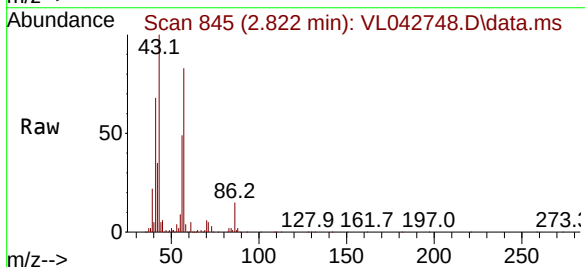
Ion Ratio Lower Upper

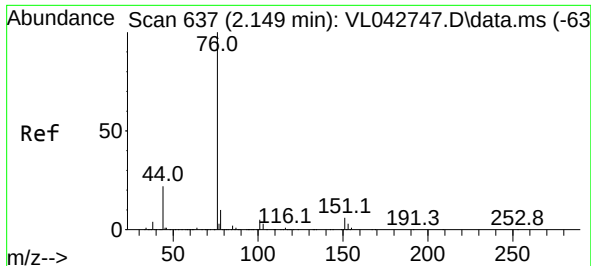
57 100

41 94.1 75.4 113.2

43 230.2 185.0 277.6

56 55.3 42.9 64.3

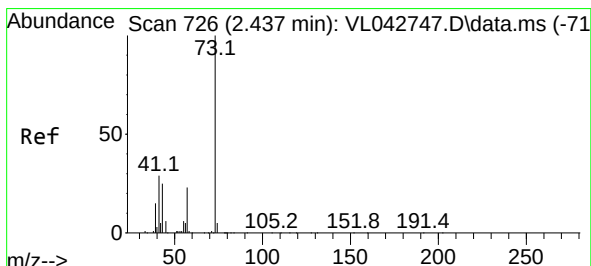
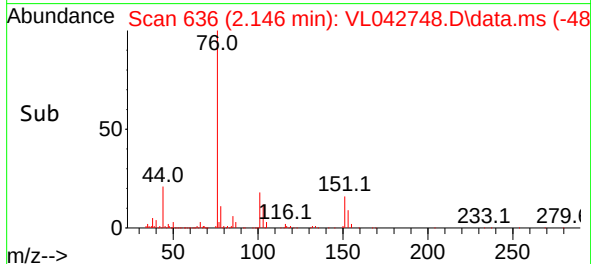
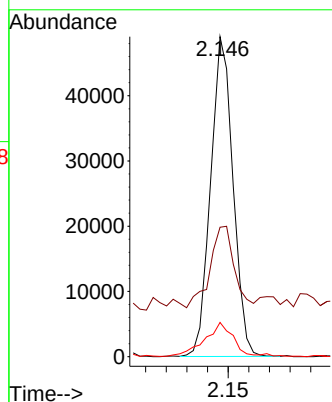
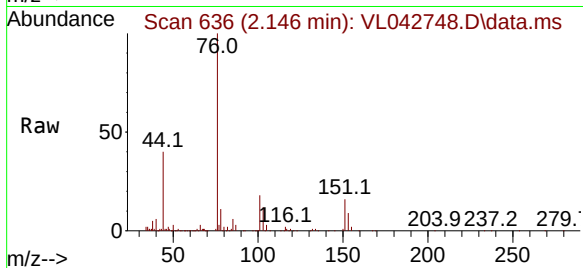




#27
Carbon Disulfide
Concen: 2.030 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

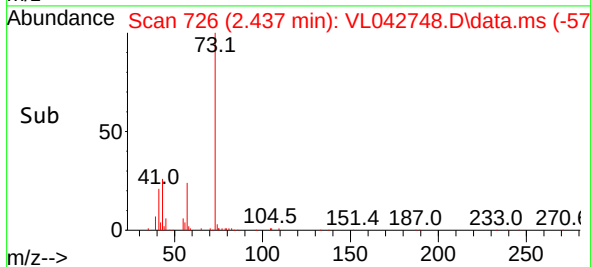
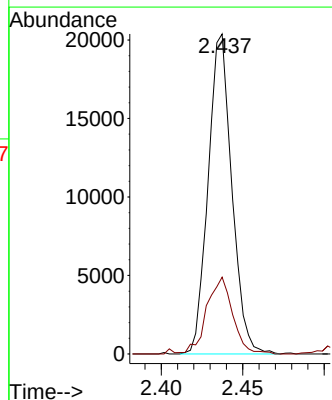
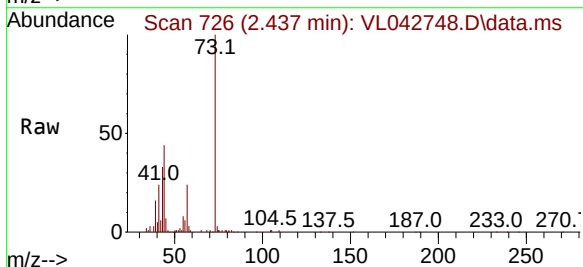
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

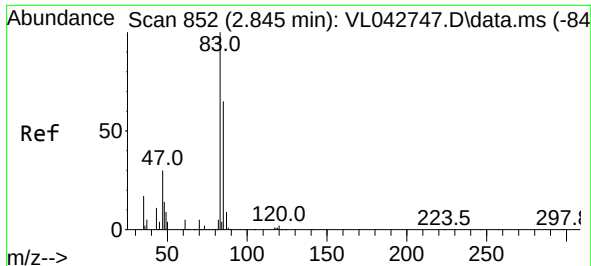
Tgt Ion: 76 Resp: 36945
Ion Ratio Lower Upper
76 100
44 71.1 19.3 28.9#
78 13.6 9.9 14.9



#28
Methyl tert-Butyl Ether
Concen: 2.051 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 73 Resp: 20603
Ion Ratio Lower Upper
73 100
57 26.7 19.8 29.8





#29

Chloroform

Concen: 2.062 ppbv

RT: 2.842 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

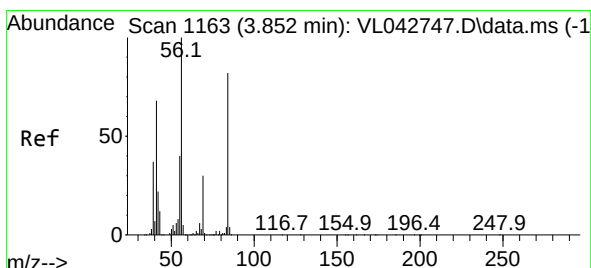
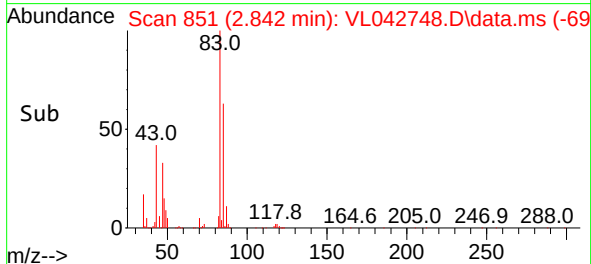
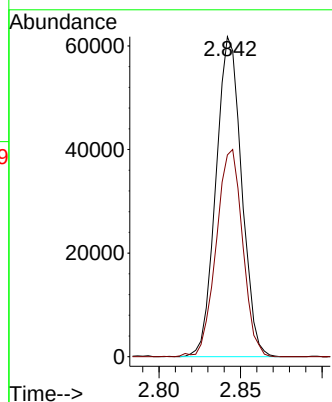
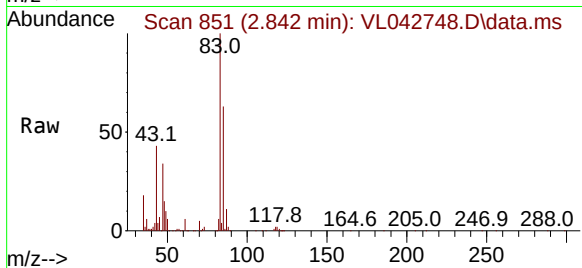
VSTDICC002

Tgt Ion: 83 Resp: 67755

Ion Ratio Lower Upper

83 100

85 63.0 52.2 78.2



#30

Cyclohexane

Concen: 1.075 ppbv

RT: 3.845 min Scan# 1161

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

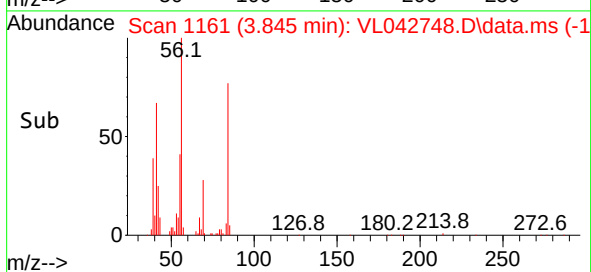
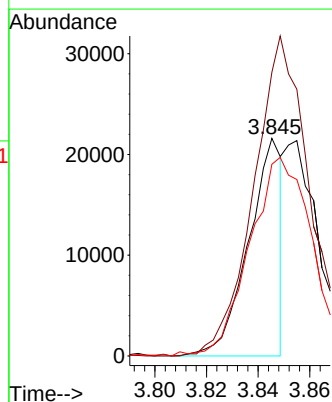
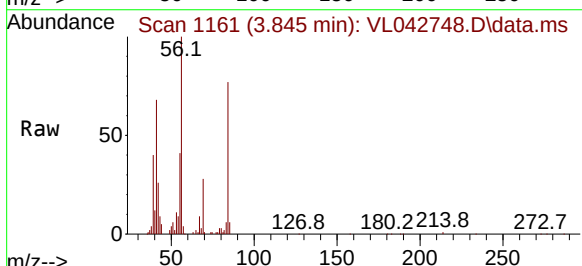
Tgt Ion: 84 Resp: 19383

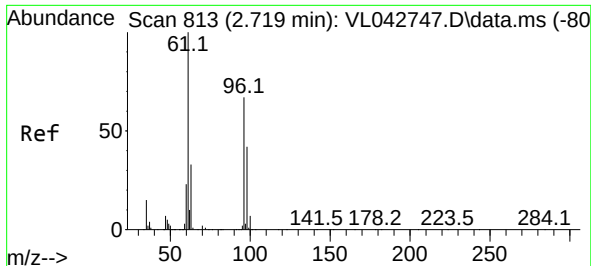
Ion Ratio Lower Upper

84 100

56 245.5 97.5 146.3#

41 171.7 67.2 100.8#

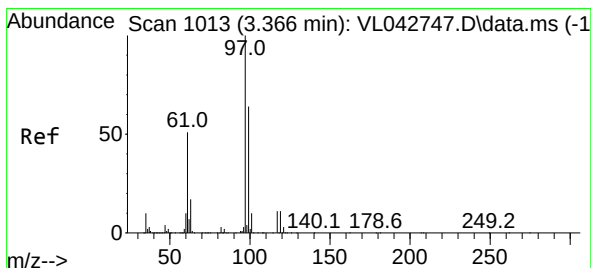
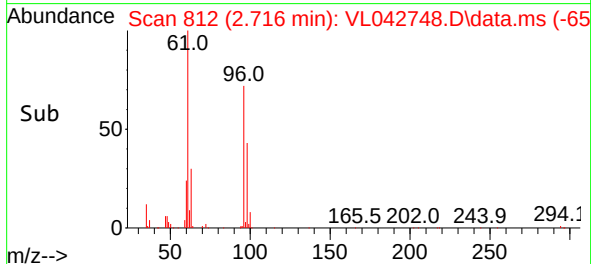
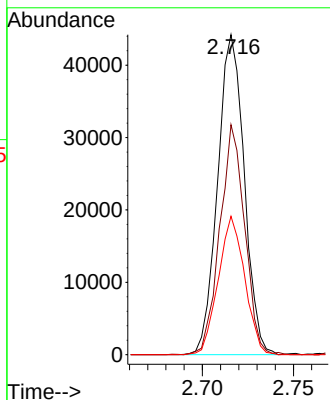
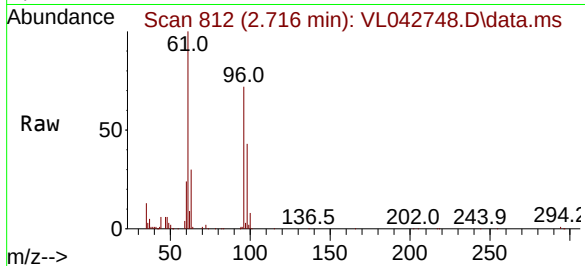




#31
 cis-1,2-Dichloroethene
 Concen: 2.053 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

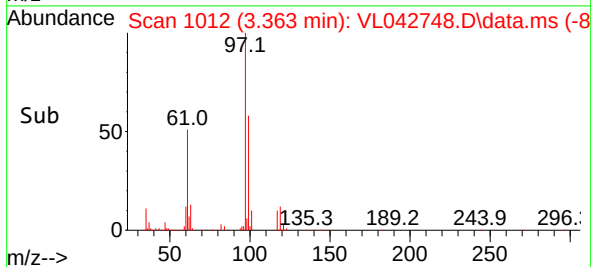
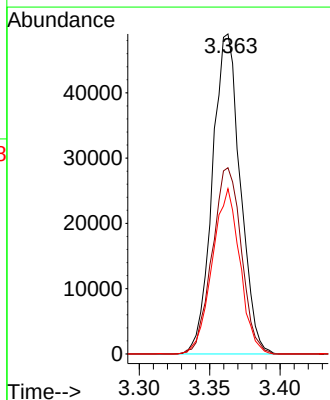
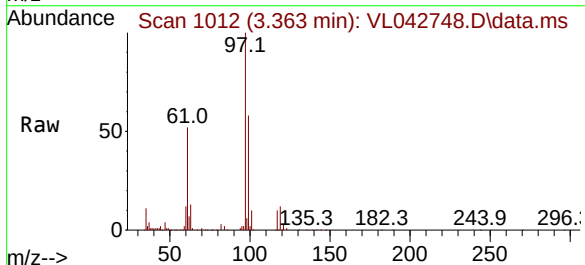
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

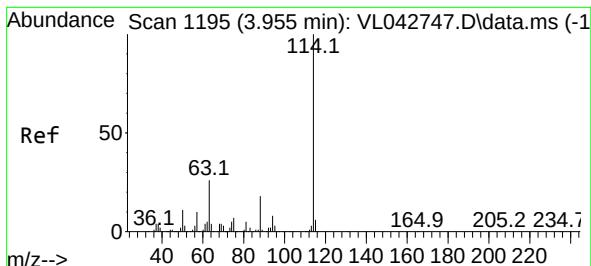
Tgt Ion: 61 Resp: 44860
 Ion Ratio Lower Upper
 61 100
 96 71.8 53.5 80.3
 98 43.3 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 1.976 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion: 97 Resp: 67608
 Ion Ratio Lower Upper
 97 100
 99 60.8 51.0 76.6
 61 51.3 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

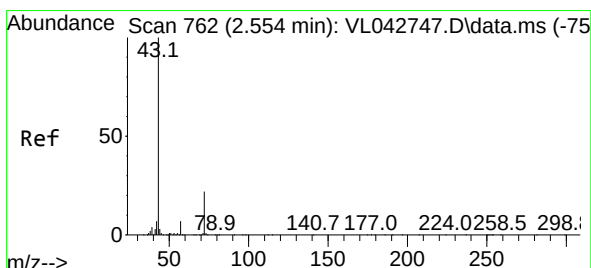
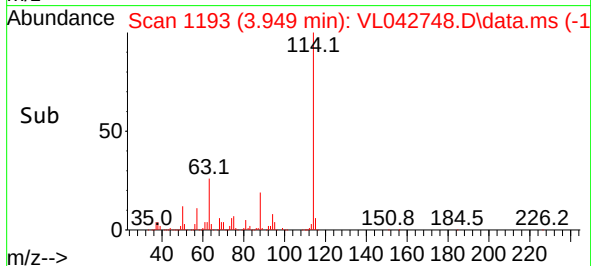
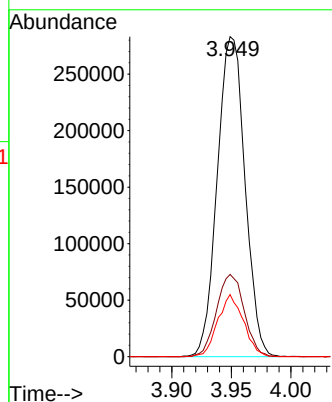
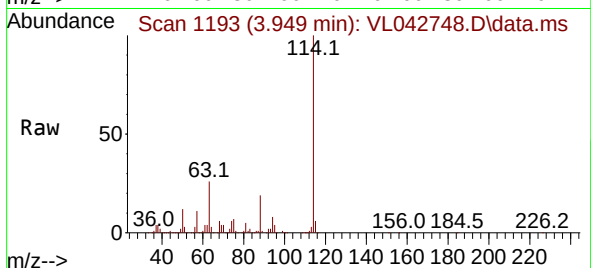
Tgt Ion:114 Resp: 457804

Ion Ratio Lower Upper

114 100

63 25.7 20.5 30.7

88 18.0 14.0 21.0



#34

2-Butanone

Concen: 2.149 ppbv

RT: 2.551 min Scan# 761

Delta R.T. -0.003 min

Lab File: VL042748.D

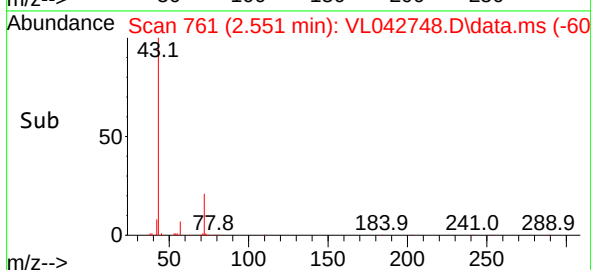
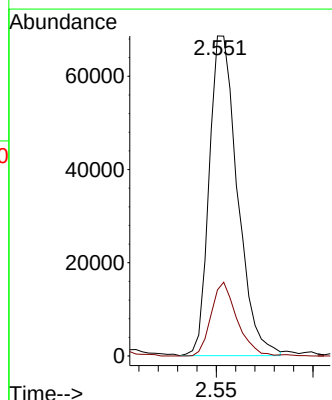
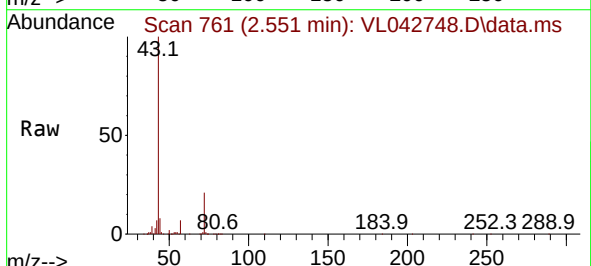
Acq: 23 Jul 2025 09:34

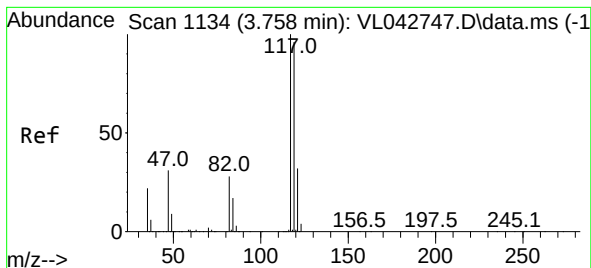
Tgt Ion: 43 Resp: 69674

Ion Ratio Lower Upper

43 100

72 21.2 17.4 26.0





#35

Carbon Tetrachloride

Concen: 1.979 ppbv

RT: 3.755 min Scan# 1133

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

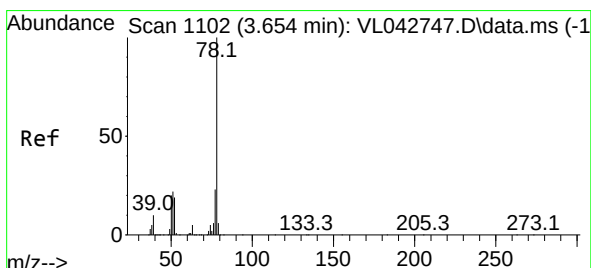
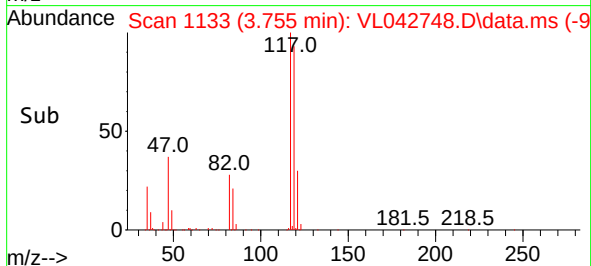
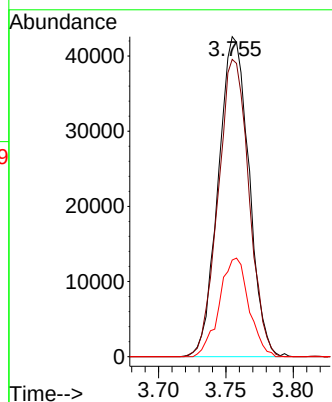
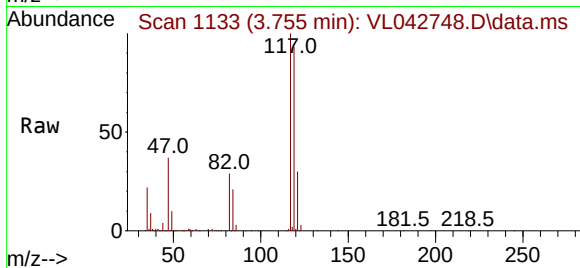
Tgt Ion:117 Resp: 67338

Ion Ratio Lower Upper

117 100

119 92.9 77.1 115.7

121 30.2 25.5 38.3



#36

Benzene

Concen: 2.101 ppbv

RT: 3.648 min Scan# 1100

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

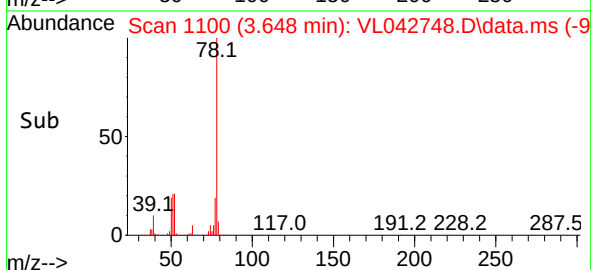
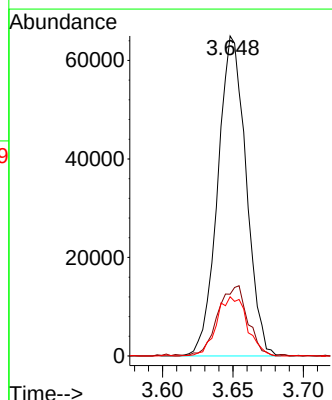
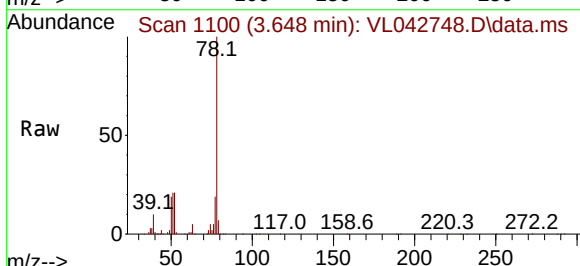
Tgt Ion: 78 Resp: 91141

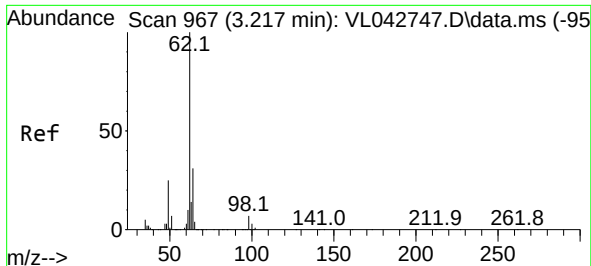
Ion Ratio Lower Upper

78 100

77 19.0 18.5 27.7

50 18.5 16.2 24.2





#37

1,2-Dichloroethane

Concen: 2.046 ppbv

RT: 3.211 min Scan# 9

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_1

ClientSampleId :

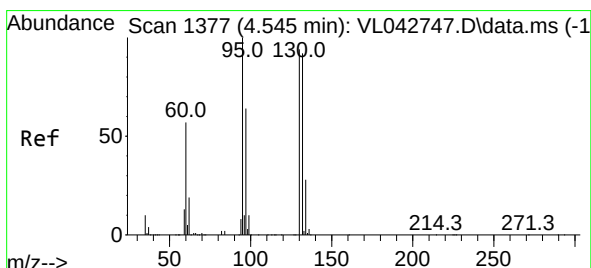
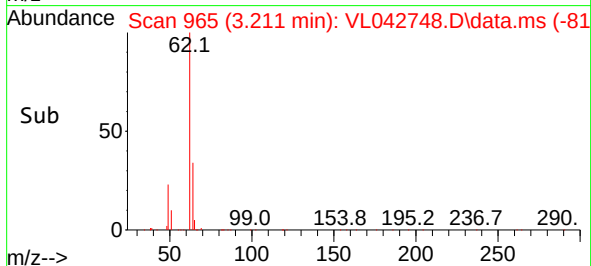
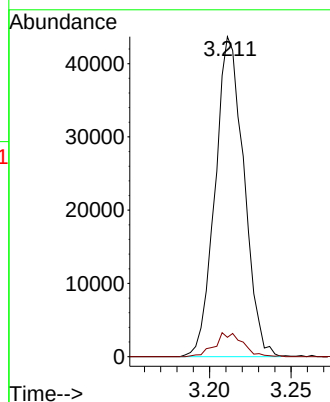
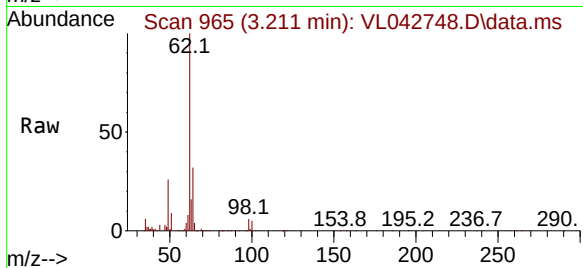
VSTDIC002

Tgt Ion: 62 Resp: 53482

Ion Ratio Lower Upper

62 100

98 7.3 5.2 7.8



#38

Trichloroethene

Concen: 1.946 ppbv

RT: 4.538 min Scan# 1375

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Tgt Ion:130 Resp: 40713

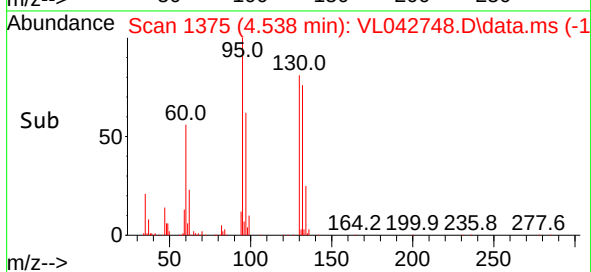
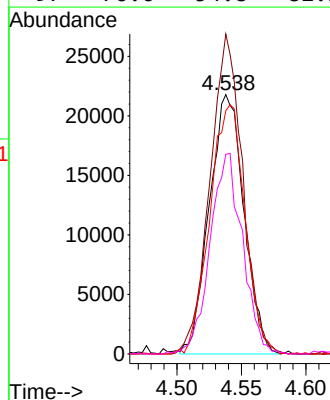
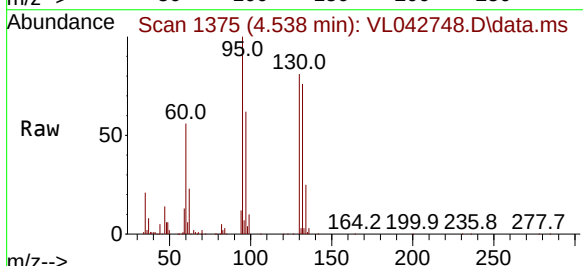
Ion Ratio Lower Upper

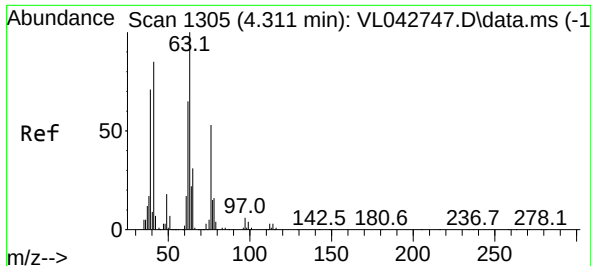
130 100

95 122.9 85.4 128.2

132 94.1 78.2 117.2

97 76.6 54.8 82.2





#39

1,2-Dichloropropane

Concen: 2.075 ppbv

RT: 4.305 min Scan# 11

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

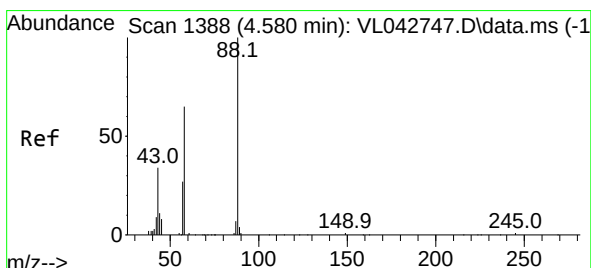
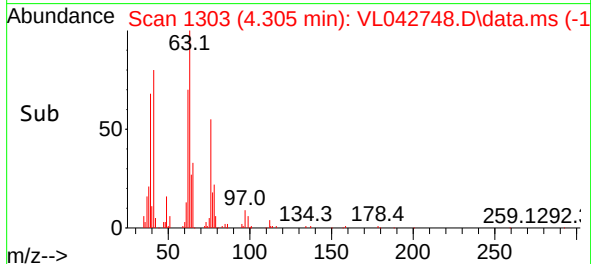
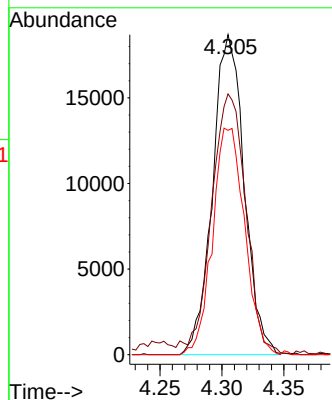
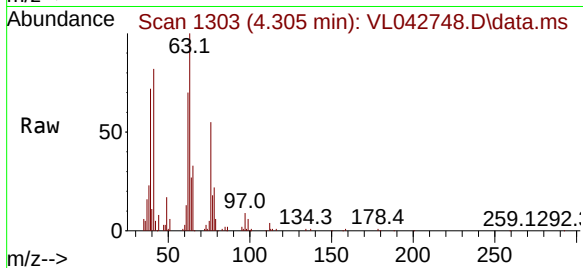
Tgt Ion: 63 Resp: 33225

Ion Ratio Lower Upper

63 100

41 80.8 68.2 102.4

62 70.1 52.0 78.0



#40

1,4-Dioxane

Concen: 1.953 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Tgt Ion: 88 Resp: 14747

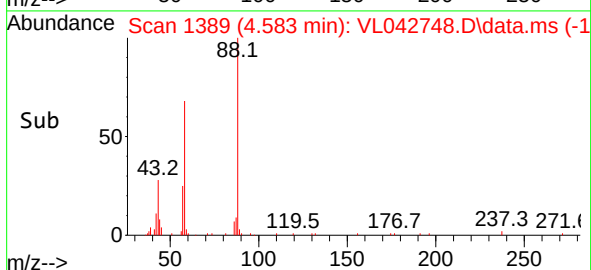
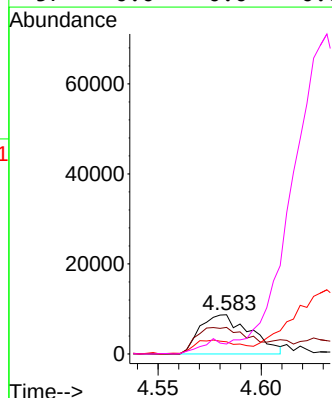
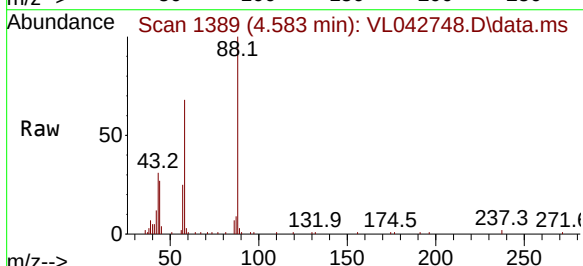
Ion Ratio Lower Upper

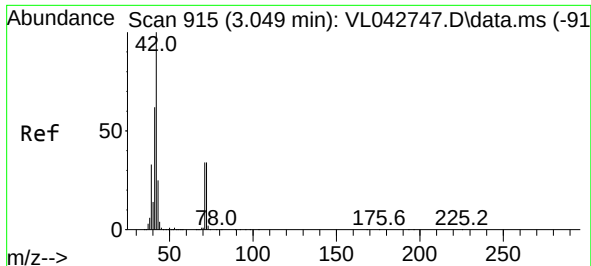
88 100

58 87.2 58.8 88.2

43 0.0 28.9 43.3#

57 0.0 0.0 0.0

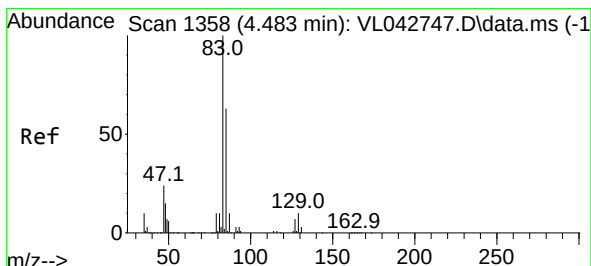
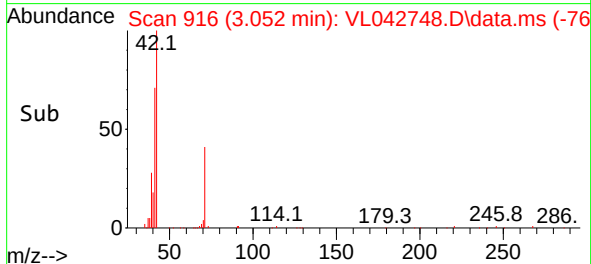
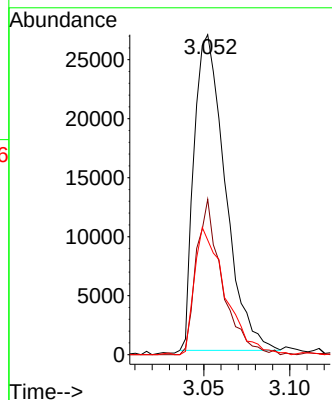
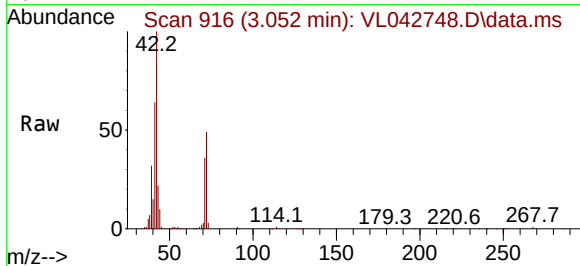




#41
Tetrahydrofuran
Concen: 2.064 ppbv
RT: 3.052 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

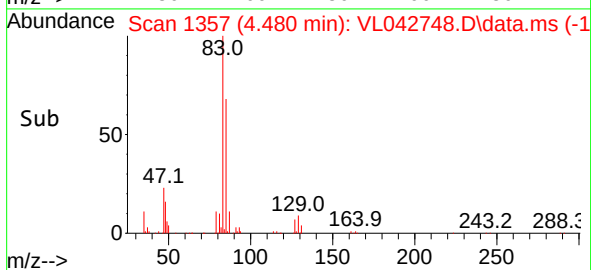
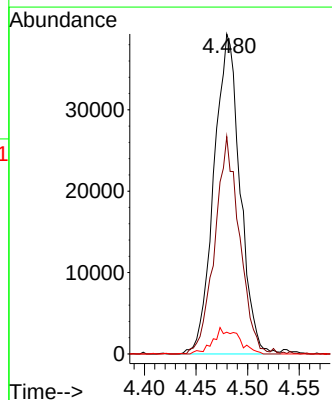
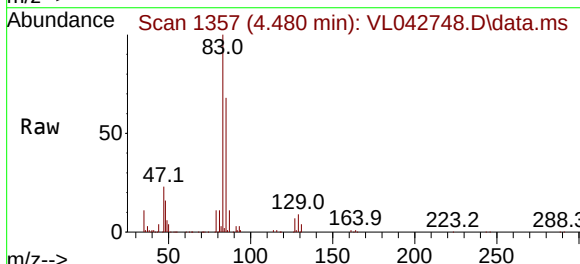
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

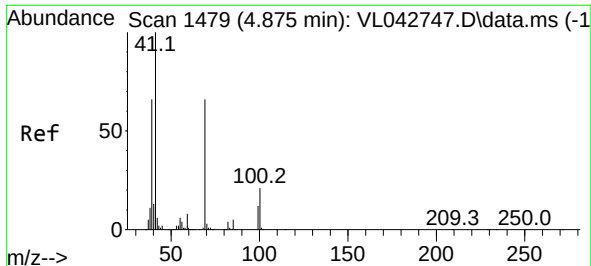
Tgt Ion: 42 Resp: 33618
Ion Ratio Lower Upper
42 100
72 41.3 30.9 46.3
71 40.4 28.6 43.0



#42
Bromodichloromethane
Concen: 2.028 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 83 Resp: 69093
Ion Ratio Lower Upper
83 100
85 67.9 50.2 75.4
127 6.8 5.4 8.2

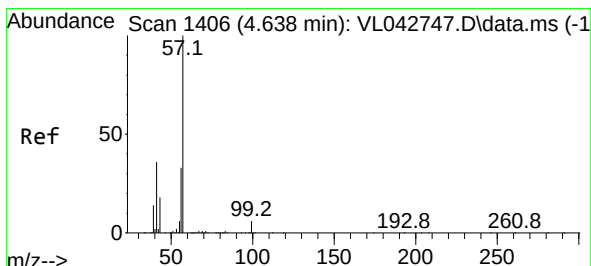
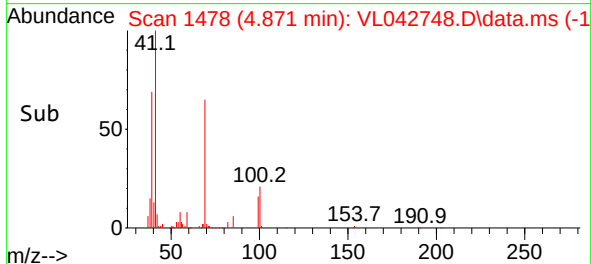
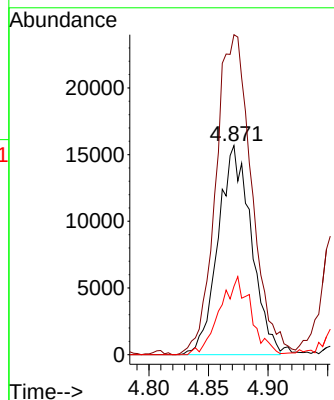
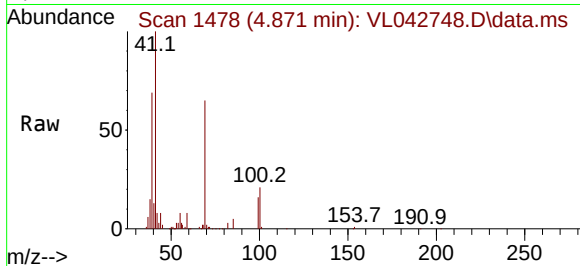




#43
Methyl Methacrylate
Concen: 1.967 ppbv
RT: 4.871 min Scan# 1479
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

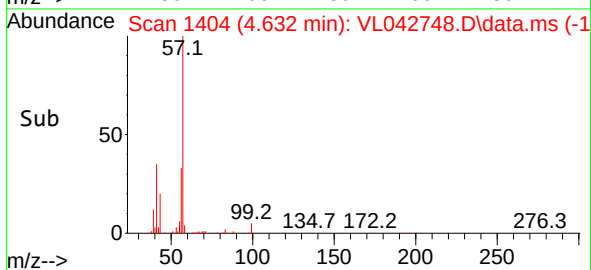
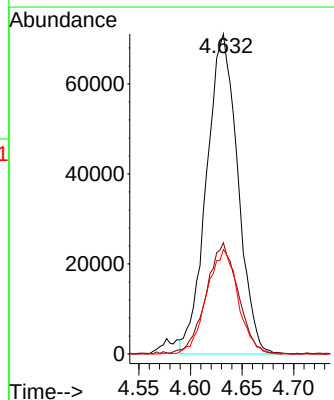
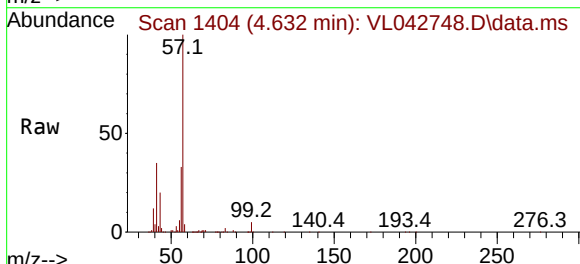
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

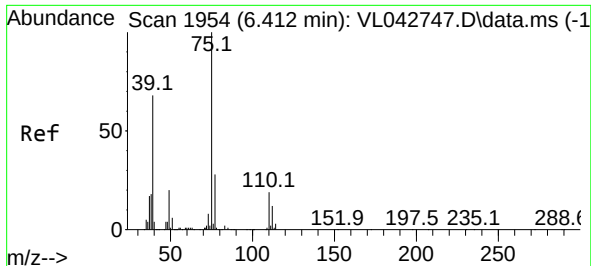
Tgt Ion: 69 Resp: 30336
Ion Ratio Lower Upper
69 100
41 164.3 125.7 188.5
100 35.5 28.6 42.8



#44
2,2,4-Trimethylpentane
Concen: 2.115 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 57 Resp: 149588
Ion Ratio Lower Upper
57 100
41 36.0 28.3 42.5
56 32.9 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 0.957 ppbv

RT: 6.399 min Scan# 1954

Delta R.T. -0.013 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

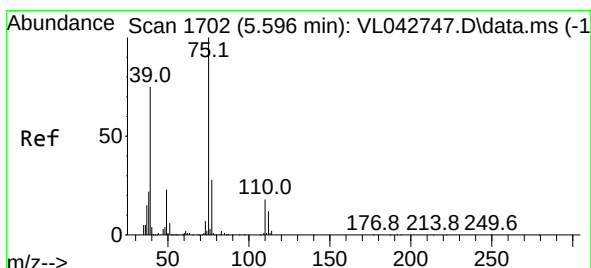
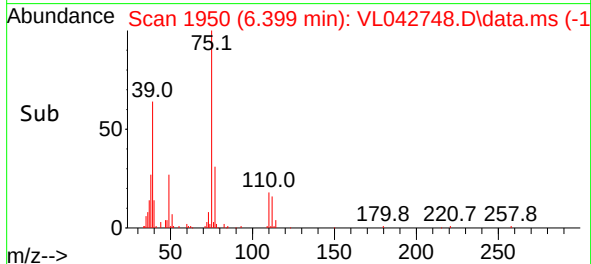
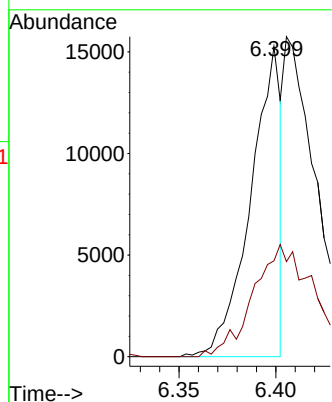
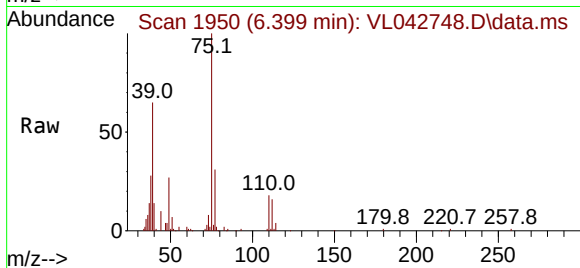
VSTDICC002

Tgt Ion: 75 Resp: 16554

Ion Ratio Lower Upper

75 100

77 30.9 22.4 33.6



#46

cis-1,3-Dichloropropene

Concen: 1.084 ppbv

RT: 5.583 min Scan# 1698

Delta R.T. -0.013 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

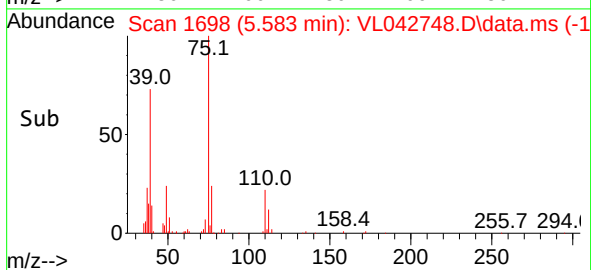
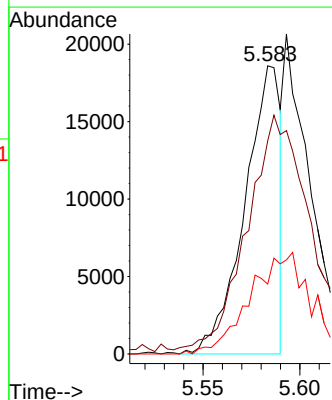
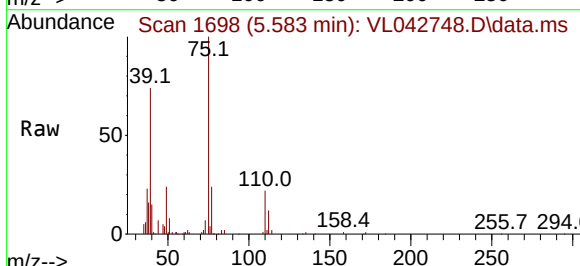
Tgt Ion: 75 Resp: 23760

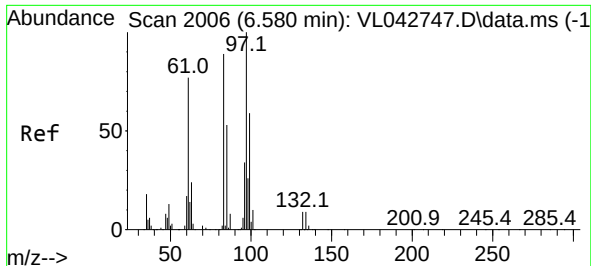
Ion Ratio Lower Upper

75 100

39 71.8 60.2 90.2

77 24.2 22.6 34.0



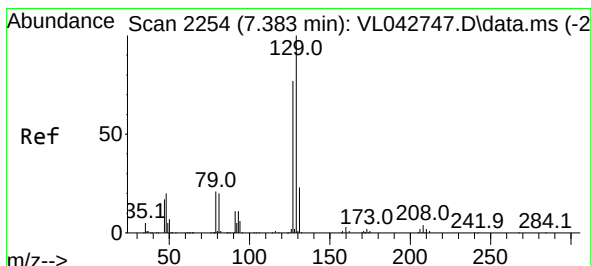
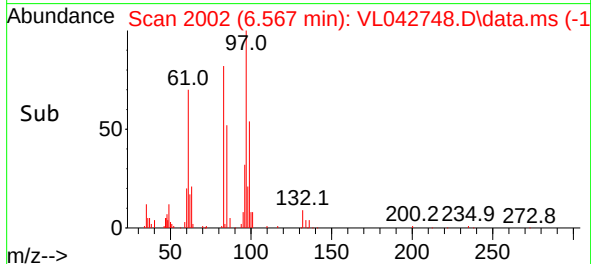
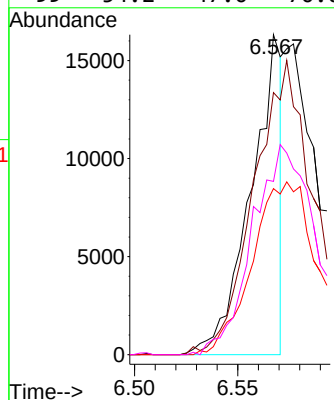
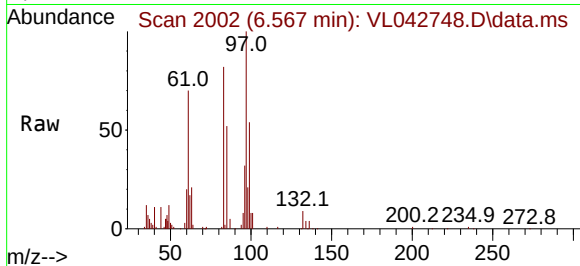


#47
1,1,2-Trichloroethane
Concen: 0.988 ppbv
RT: 6.567 min Scan# 2006
Delta R.T. -0.013 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 97 Resp: 16867

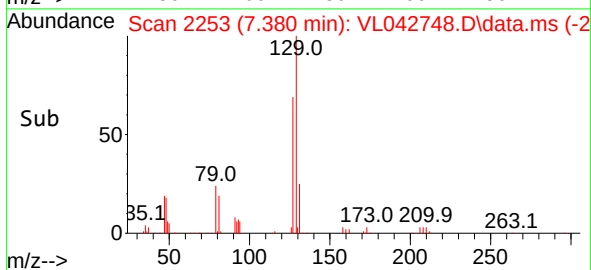
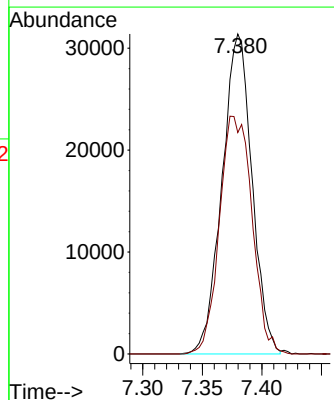
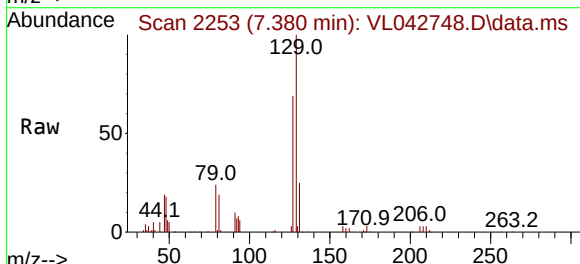
Ion	Ratio	Lower	Upper
97	100		
83	81.9	71.1	106.7
85	51.9	43.0	64.4
99	54.2	47.0	70.6

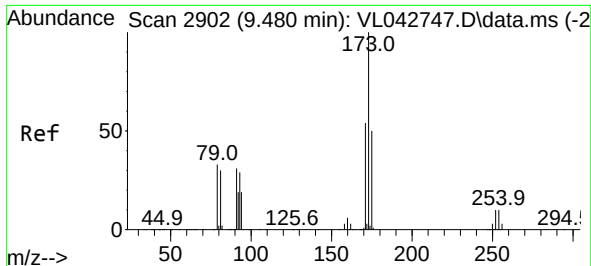


#48
Dibromochloromethane
Concen: 2.026 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 129 Resp: 54906

Ion	Ratio	Lower	Upper
129	100		
127	80.8	38.7	116.1





#49

Bromoform

Concen: 2.003 ppbv

RT: 9.477 min Scan# 2902

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

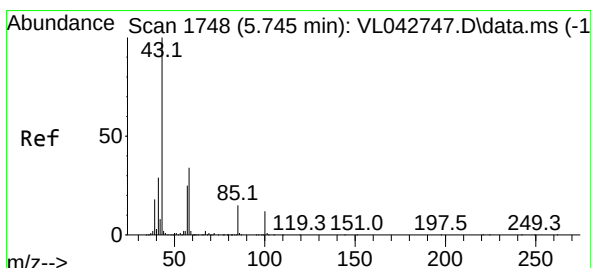
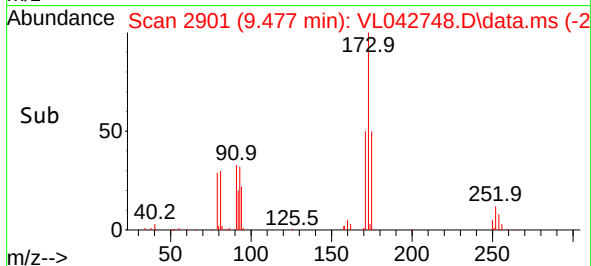
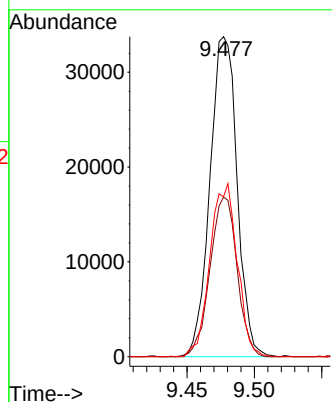
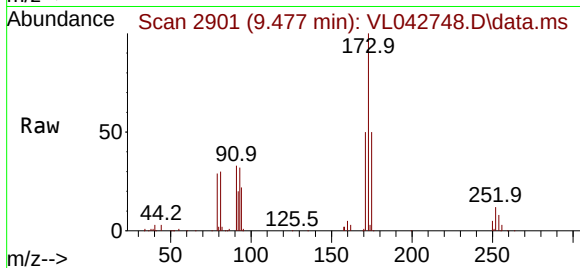
Tgt Ion:173 Resp: 47340

Ion Ratio Lower Upper

173 100

175 49.7 38.4 57.6

171 54.2 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 0.966 ppbv

RT: 5.742 min Scan# 1747

Delta R.T. -0.003 min

Lab File: VL042748.D

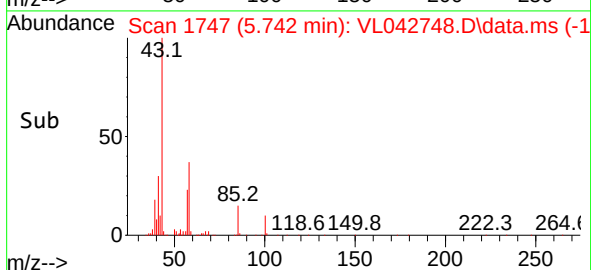
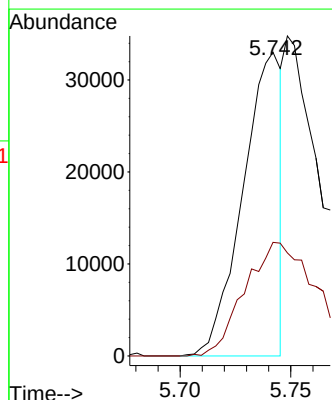
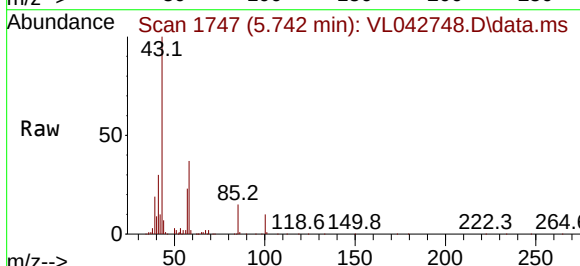
Acq: 23 Jul 2025 09:34

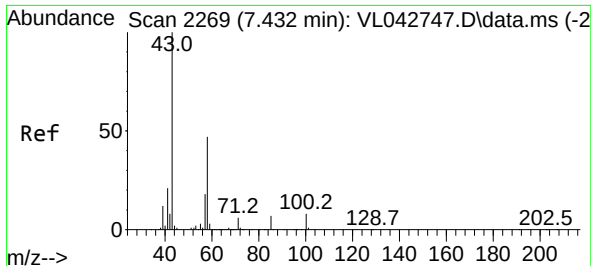
Tgt Ion: 43 Resp: 39913

Ion Ratio Lower Upper

43 100

58 76.3 27.8 41.8#

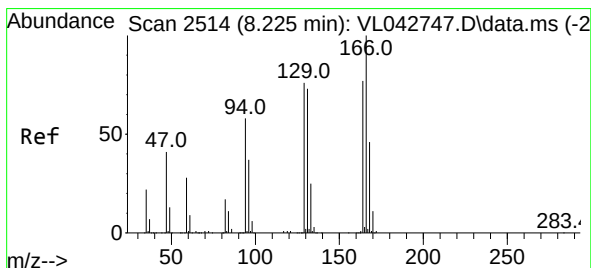
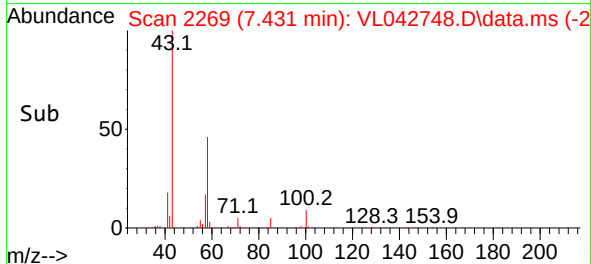
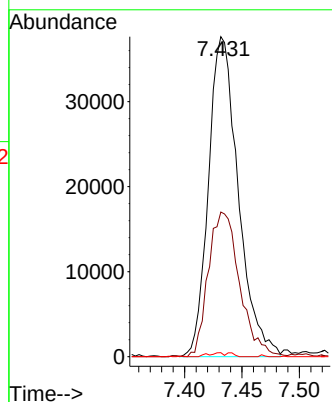
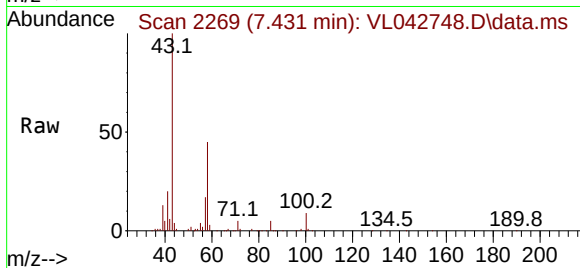




#51
2-Hexanone
Concen: 2.157 ppbv
RT: 7.431 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

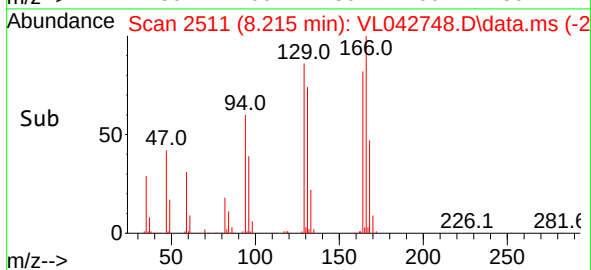
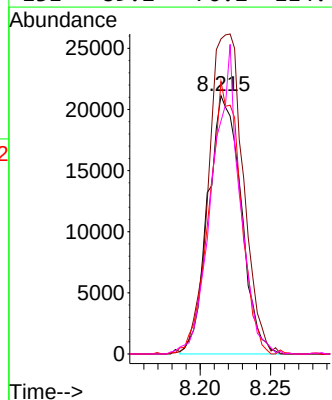
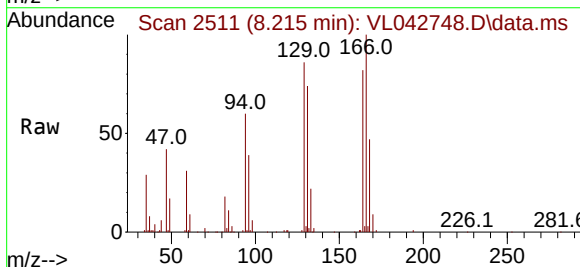
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

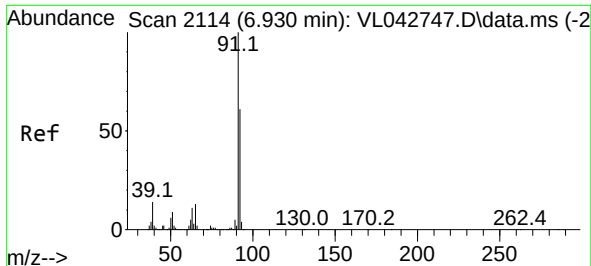
Tgt Ion: 43 Resp: 68093
Ion Ratio Lower Upper
43 100
58 48.2 38.0 57.0
98 1.0 0.2 0.4#



#52
Tetrachloroethene
Concen: 1.917 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. -0.010 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 164 Resp: 34568
Ion Ratio Lower Upper
164 100
166 121.7 104.0 156.0
129 103.9 79.2 118.8
131 89.2 76.2 114.4

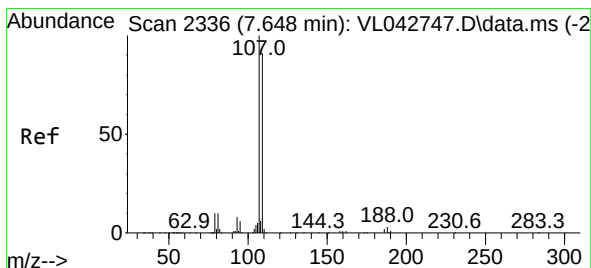
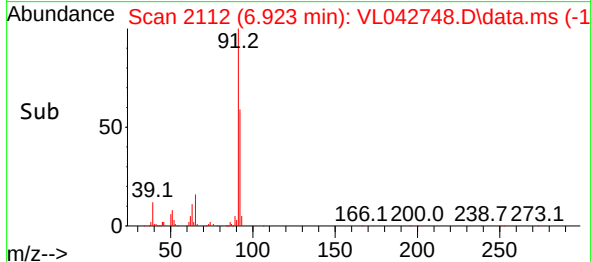
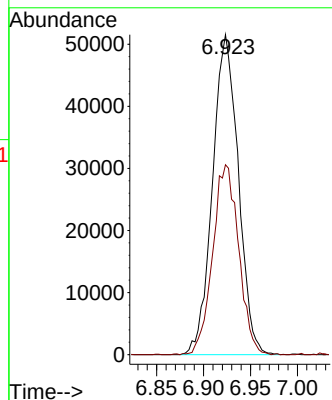
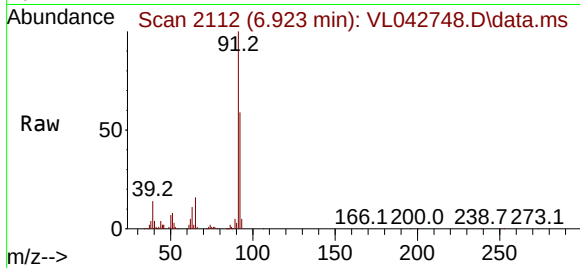




#53
Toluene
Concen: 2.111 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

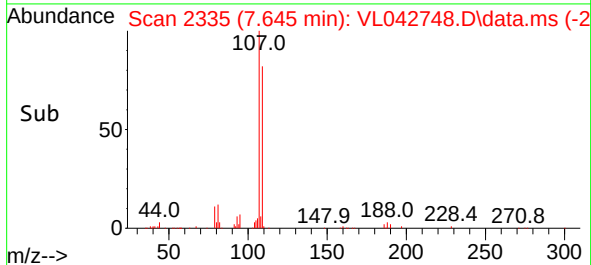
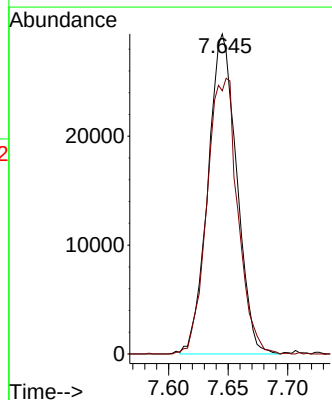
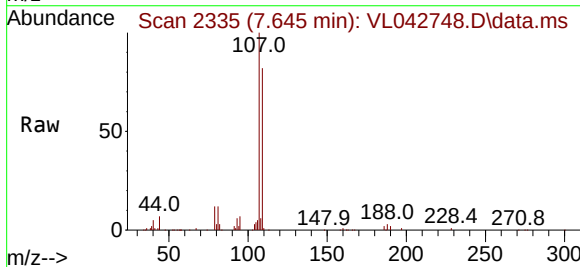
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

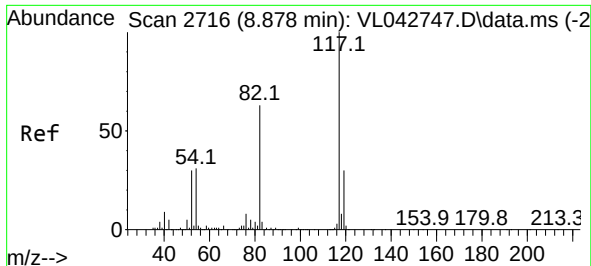
Tgt Ion: 91 Resp: 98346
Ion Ratio Lower Upper
91 100
92 59.8 48.0 72.0



#54
1,2-Dibromoethane
Concen: 2.042 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 107 Resp: 49346
Ion Ratio Lower Upper
107 100
109 82.2 72.7 109.1

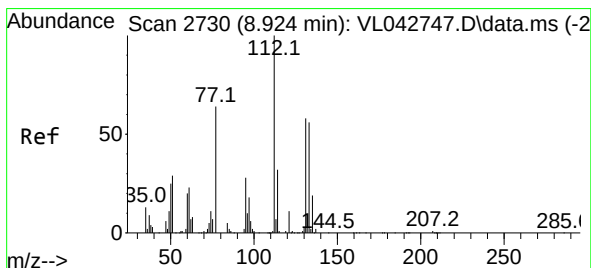
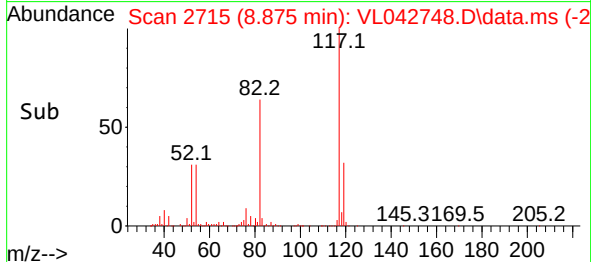
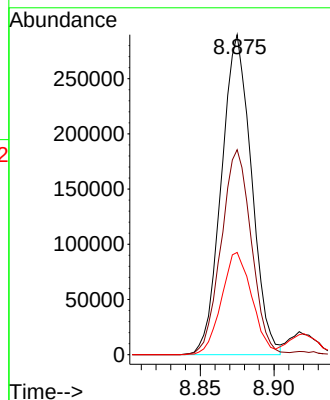
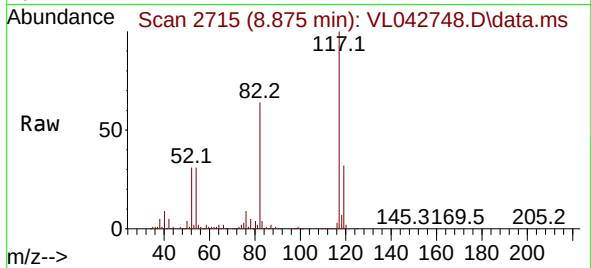




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

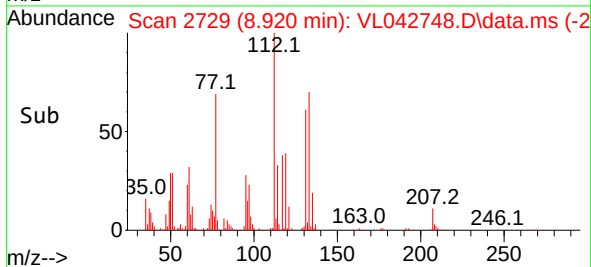
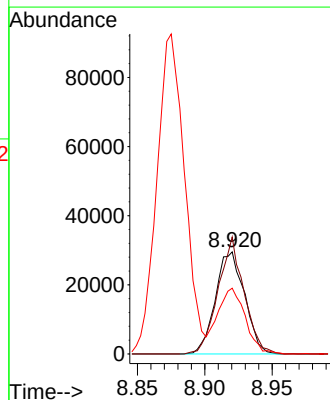
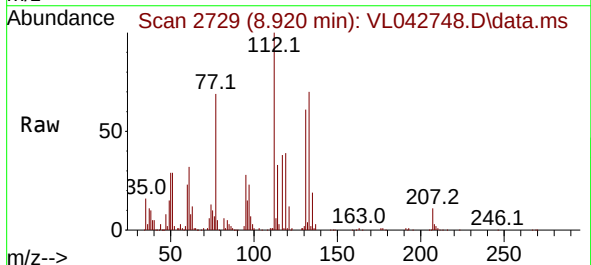
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

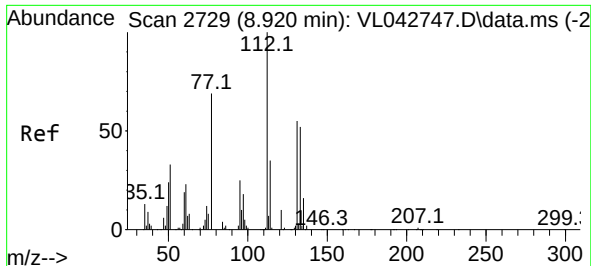
Tgt Ion:117 Resp: 410740
Ion Ratio Lower Upper
117 100
82 65.2 53.3 79.9
119 33.2 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 2.079 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:131 Resp: 44409
Ion Ratio Lower Upper
131 100
133 102.1 76.8 115.2
119 54.2 49.7 74.5





#57

Chlorobenzene

Concen: 2.101 ppbv

RT: 8.914 min Scan# 21

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

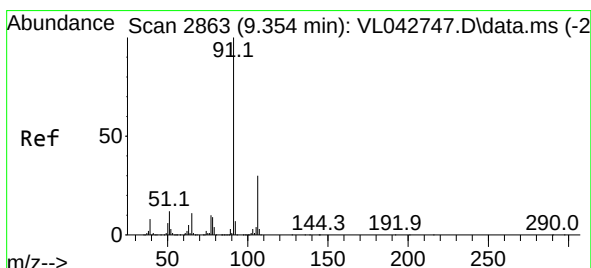
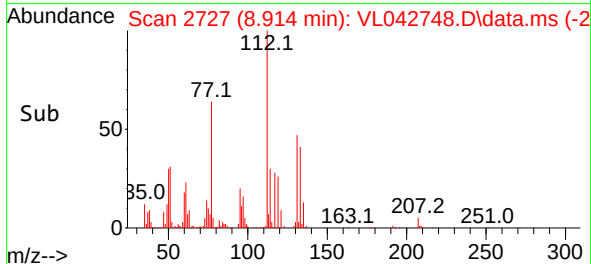
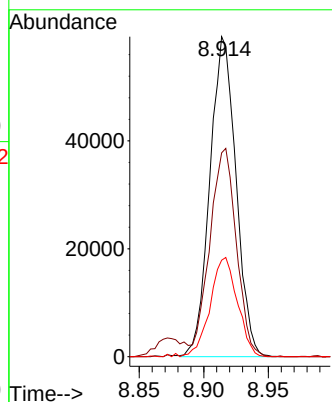
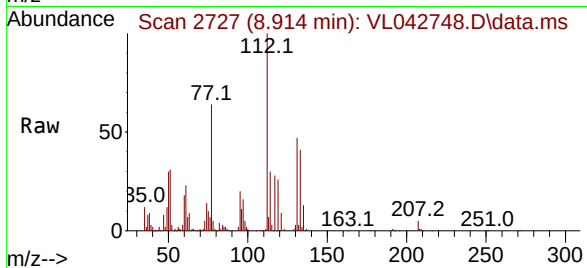
Tgt Ion:112 Resp: 83503

Ion Ratio Lower Upper

112 100

77 63.5 56.4 84.6

114 30.2 31.2 38.2#



#58

Ethyl Benzene

Concen: 2.208 ppbv

RT: 9.348 min Scan# 2861

Delta R.T. -0.007 min

Lab File: VL042748.D

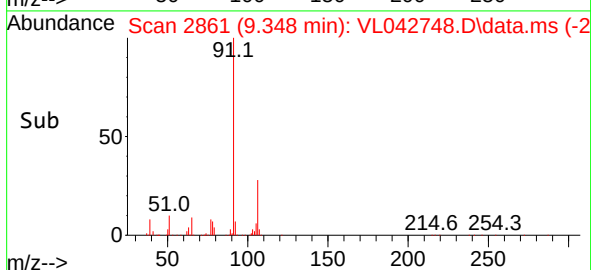
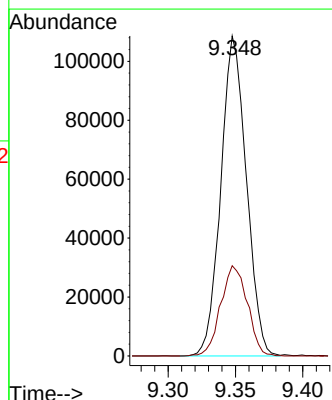
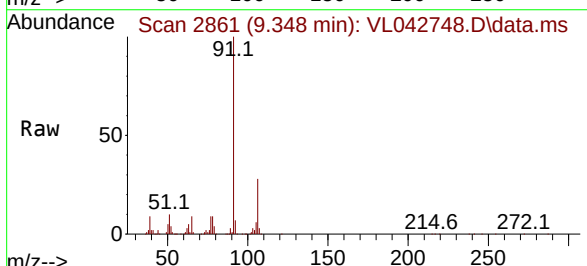
Acq: 23 Jul 2025 09:34

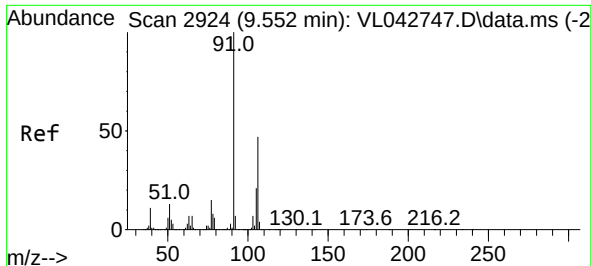
Tgt Ion: 91 Resp: 143251

Ion Ratio Lower Upper

91 100

106 28.2 23.8 35.6





#59

m/p-Xylene

Concen: 1.758 ppbv

RT: 9.545 min Scan# 2924

Delta R.T. -0.007 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

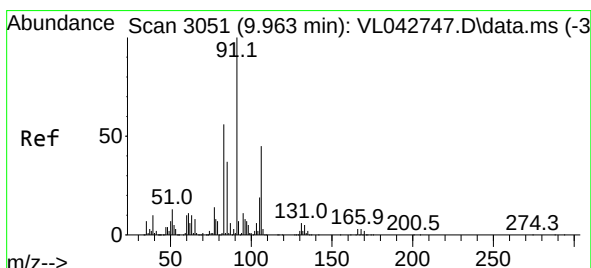
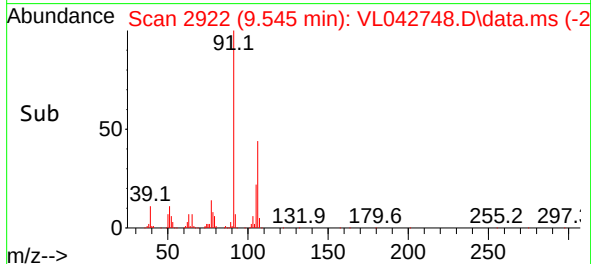
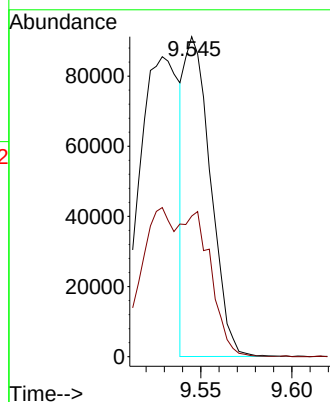
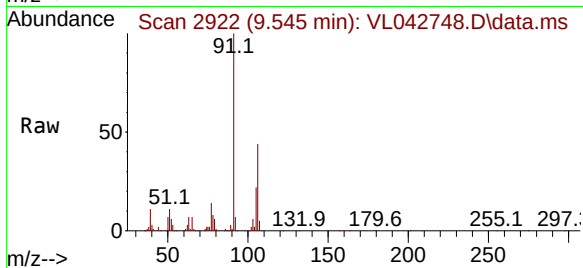
VSTDICC002

Tgt Ion: 91 Resp: 91147

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#



#60

o-Xylene

Concen: 2.190 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. -0.007 min

Lab File: VL042748.D

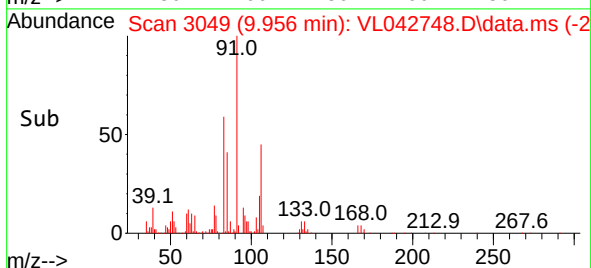
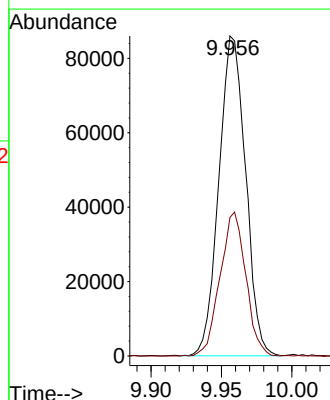
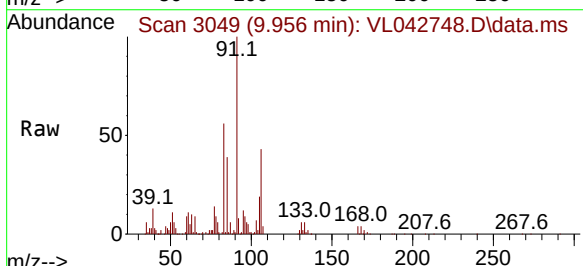
Acq: 23 Jul 2025 09:34

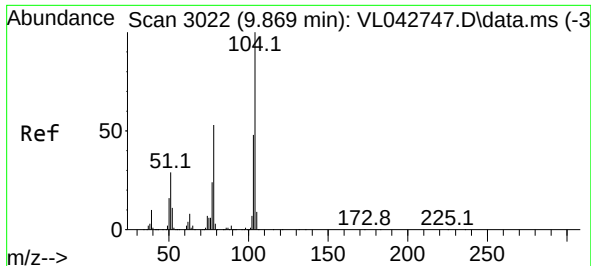
Tgt Ion: 91 Resp: 113462

Ion Ratio Lower Upper

91 100

106 43.4 22.0 66.0





#61

Styrene

Concen: 2.081 ppbv

RT: 9.865 min Scan# 3022

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

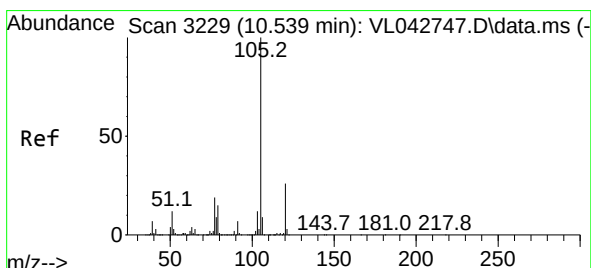
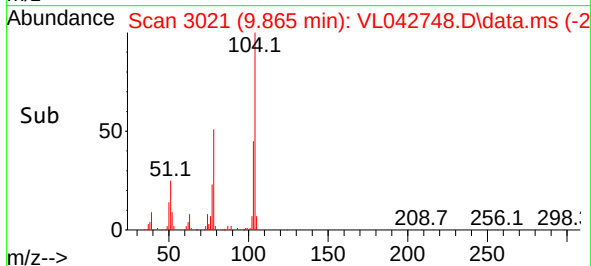
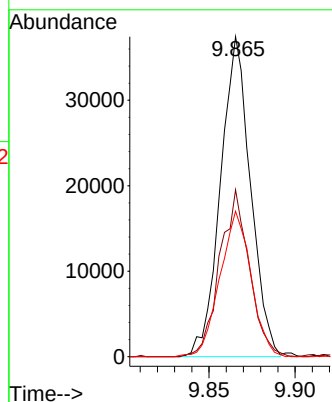
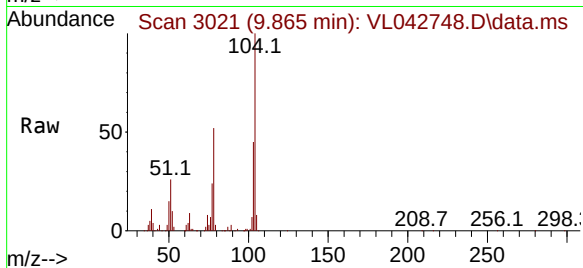
Tgt Ion:104 Resp: 45351

Ion Ratio Lower Upper

104 100

78 51.7 41.5 62.3

103 47.1 37.5 56.3



#62

Isopropylbenzene

Concen: 2.187 ppbv

RT: 10.535 min Scan# 3228

Delta R.T. -0.003 min

Lab File: VL042748.D

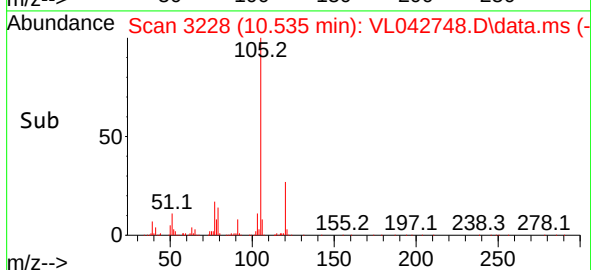
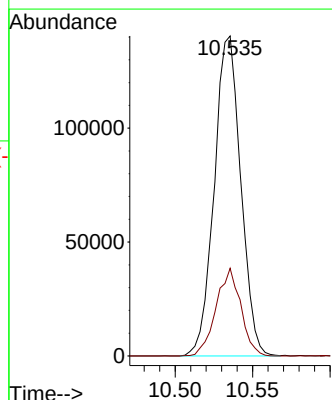
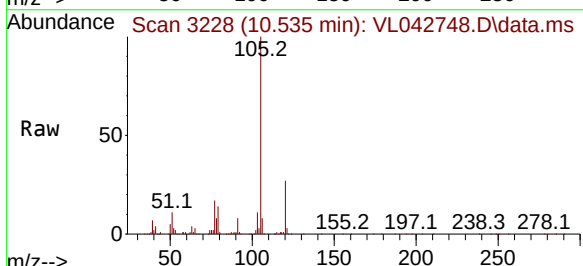
Acq: 23 Jul 2025 09:34

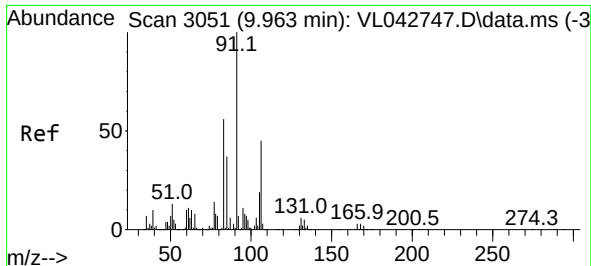
Tgt Ion:105 Resp: 167108

Ion Ratio Lower Upper

105 100

120 25.6 20.5 30.7

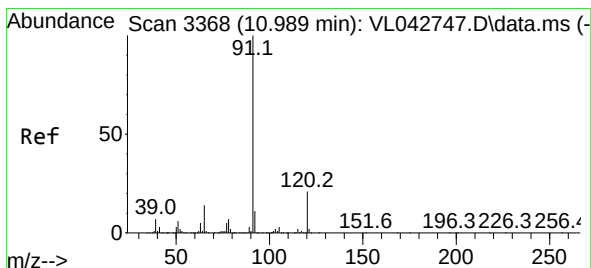
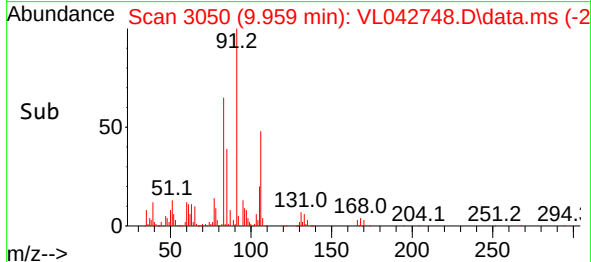
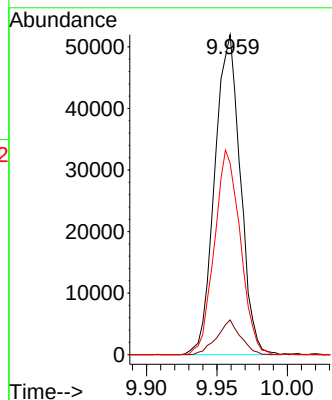
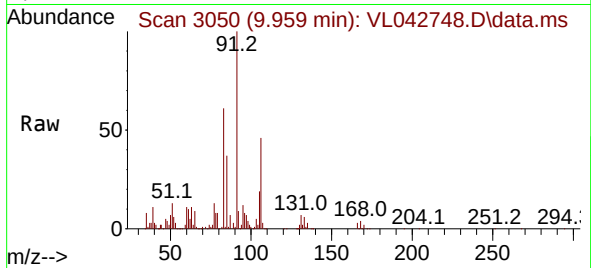




#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.954 ppbv
 RT: 9.959 min Scan# 3050
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

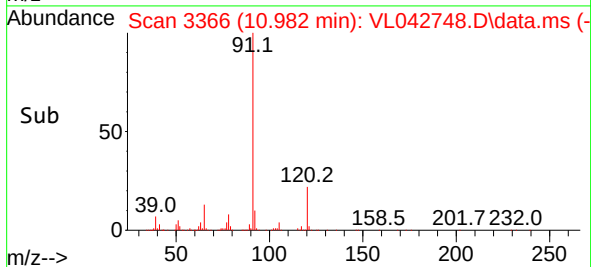
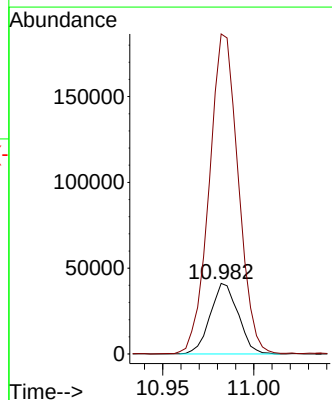
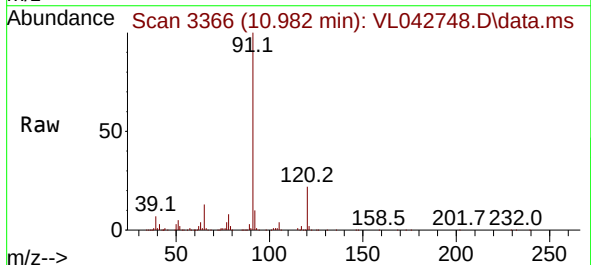
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

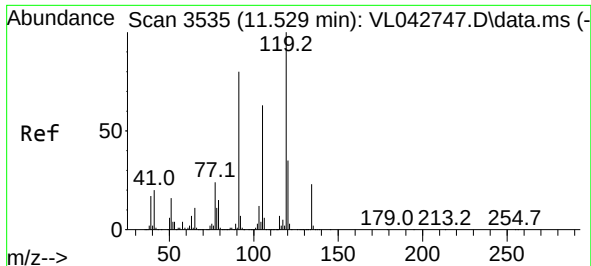
Tgt Ion: 83 Resp: 65928
 Ion Ratio Lower Upper
 83 100
 131 10.1 5.0 15.0
 85 64.7 32.6 97.7



#64
 n-propylbenzene
 Concen: 2.198 ppbv
 RT: 10.982 min Scan# 3366
 Delta R.T. -0.007 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion: 120 Resp: 43789
 Ion Ratio Lower Upper
 120 100
 91 472.1 372.7 559.1

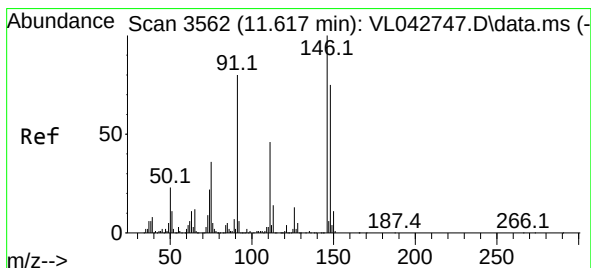
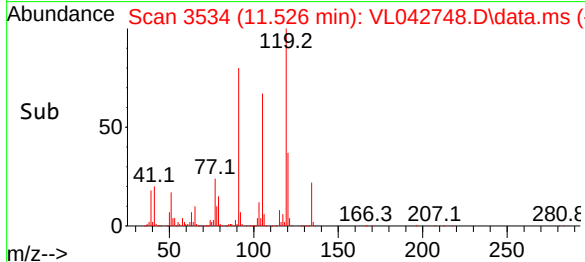
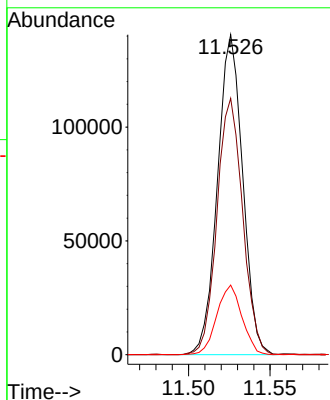
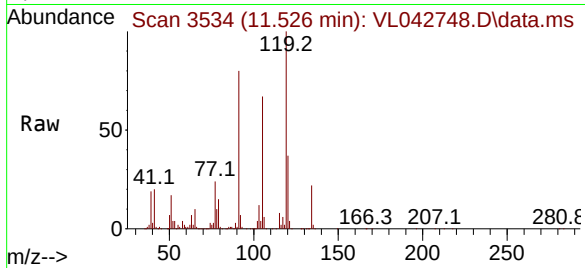




#65
 tert-Butylbenzene
 Concen: 2.226 ppbv
 RT: 11.526 min Scan# 3534
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

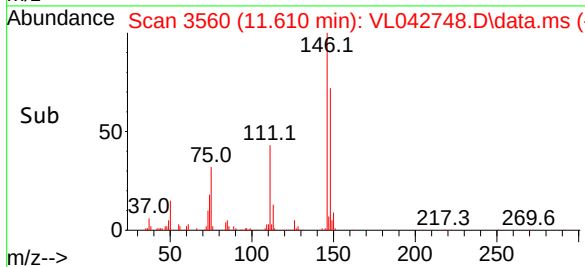
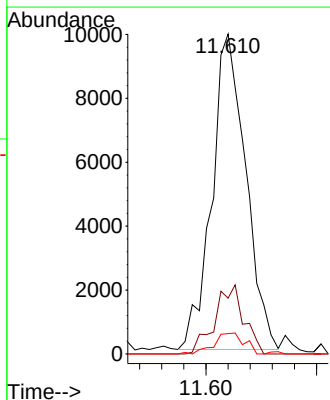
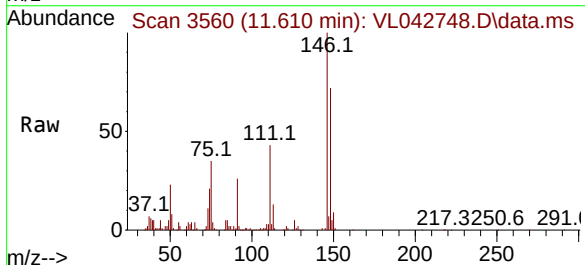
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

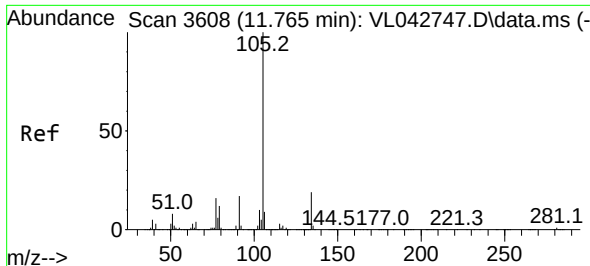
Tgt Ion:119 Resp: 151081
 Ion Ratio Lower Upper
 119 100
 91 81.8 64.0 96.0
 134 21.7 17.3 25.9



#66
 Benzyl Chloride
 Concen: 1.882 ppbv
 RT: 11.610 min Scan# 3560
 Delta R.T. -0.007 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 10485
 Ion Ratio Lower Upper
 91 100
 126 18.8 14.4 21.6
 128 6.2 5.2 7.8

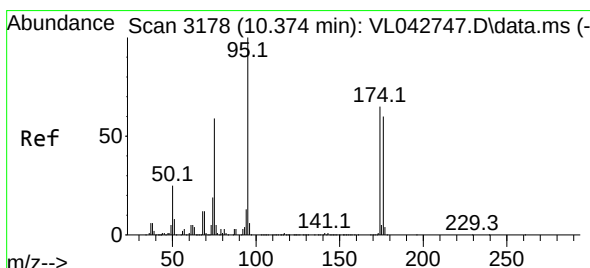
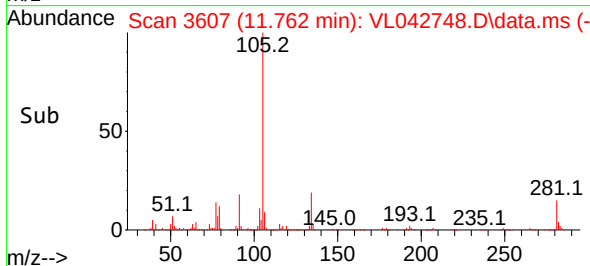
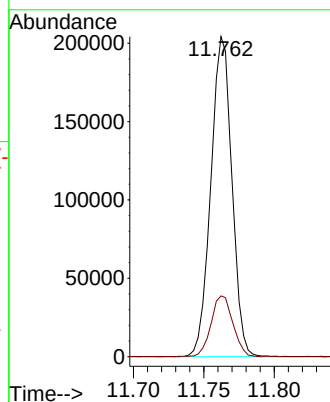
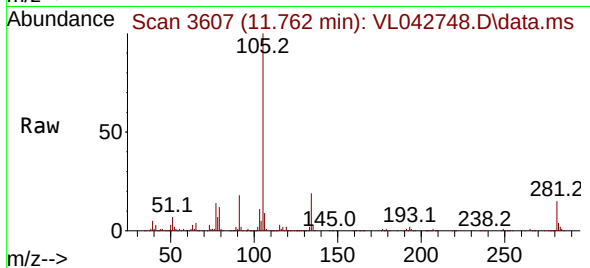




#67
 sec-Butylbenzene
 Concen: 2.206 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

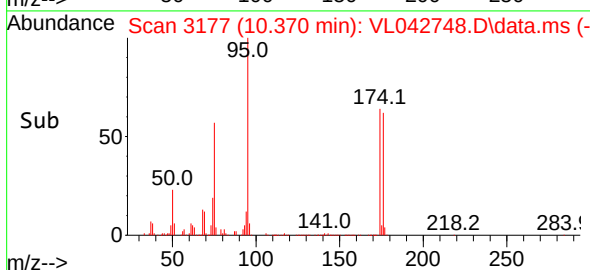
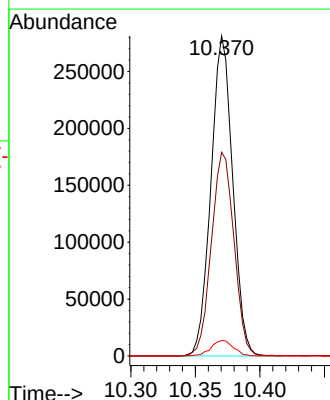
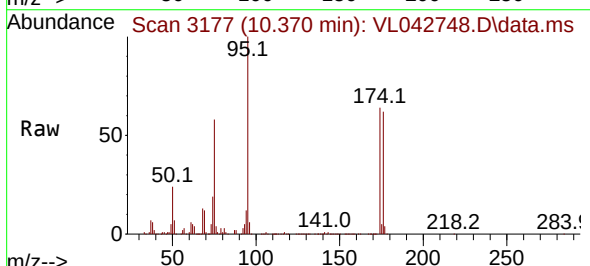
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

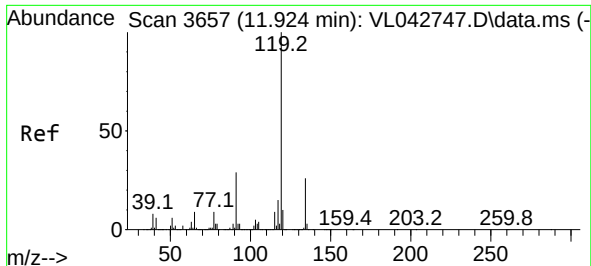
Tgt Ion:105 Resp: 212925
 Ion Ratio Lower Upper
 105 100
 134 19.8 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.160 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion: 95 Resp: 330476
 Ion Ratio Lower Upper
 95 100
 174 66.2 53.8 80.6
 175 5.0 4.0 6.0

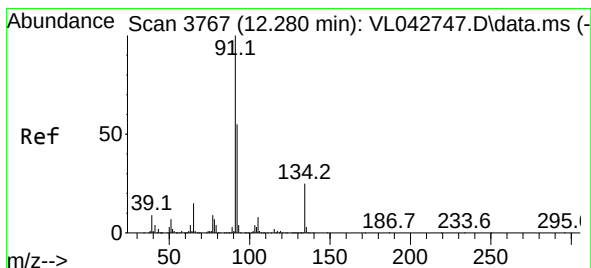
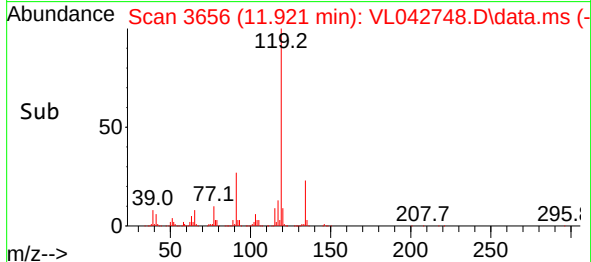
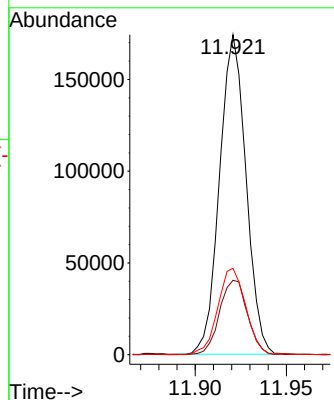
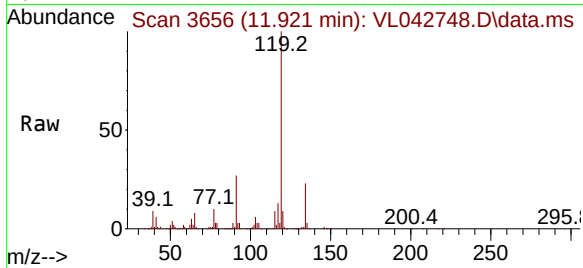




#69
p-Isopropyltoluene
Concen: 2.230 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

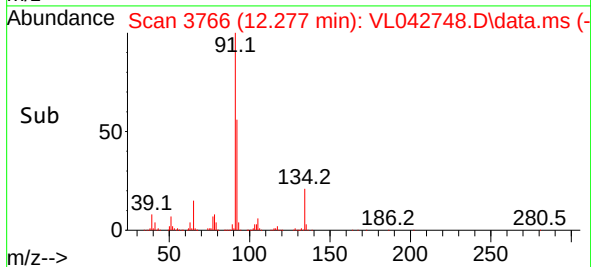
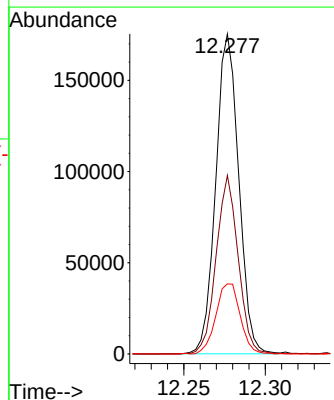
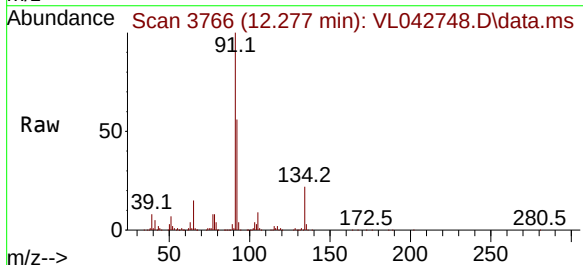
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

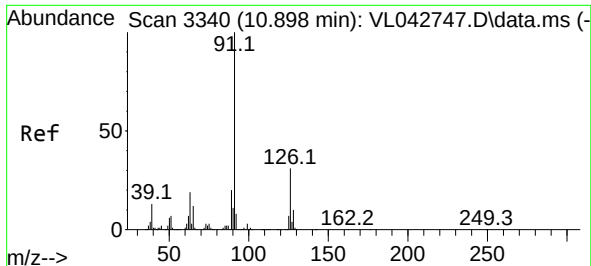
Tgt Ion:119 Resp: 175553
Ion Ratio Lower Upper
119 100
134 24.7 20.6 31.0
91 29.0 23.2 34.8



#70
n-Butylbenzene
Concen: 2.258 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion: 91 Resp: 171675
Ion Ratio Lower Upper
91 100
92 53.7 43.4 65.2
134 23.4 19.6 29.4

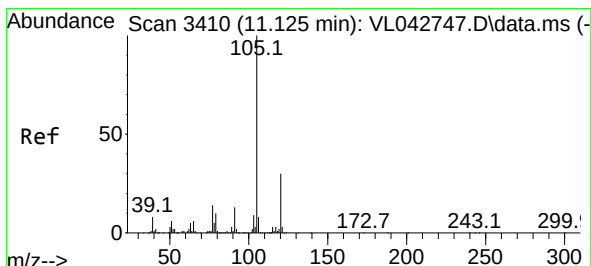
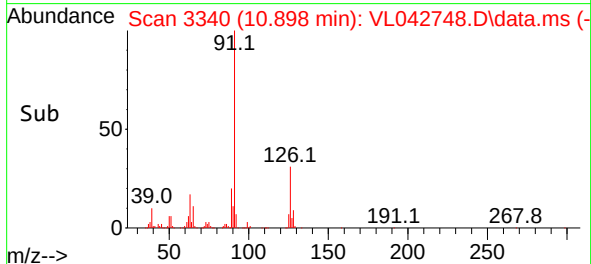
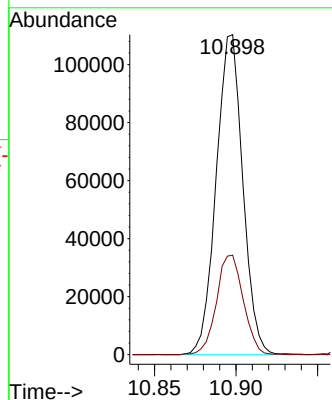
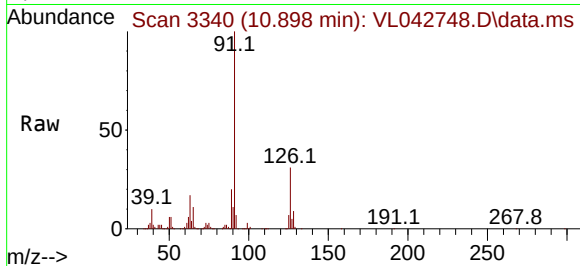




#71
2-Chlorotoluene
Concen: 2.134 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

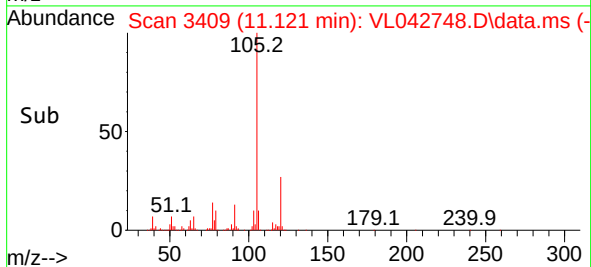
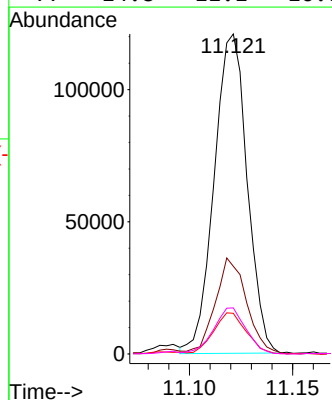
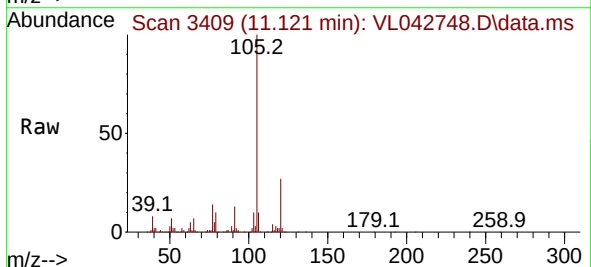
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

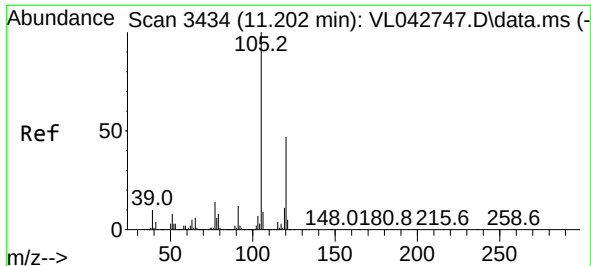
Tgt Ion: 91 Resp: 125039
Ion Ratio Lower Upper
91 100
126 31.4 12.0 48.2



#72
4-Ethyltoluene
Concen: 2.168 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:105 Resp: 134097
Ion Ratio Lower Upper
105 100
120 29.7 24.4 36.6
91 13.7 10.6 15.8
77 14.8 11.1 16.7

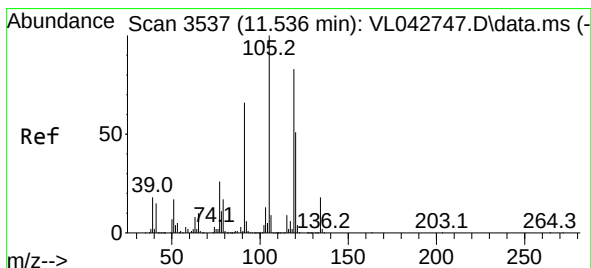
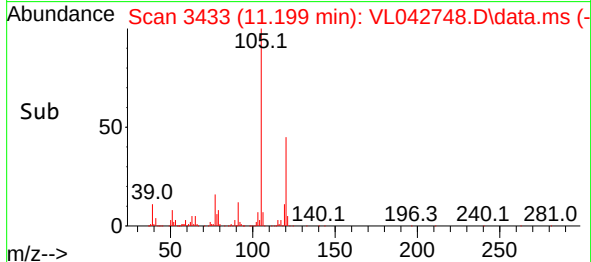
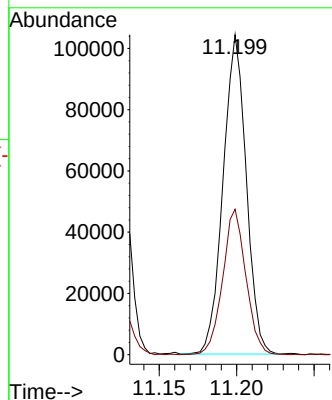
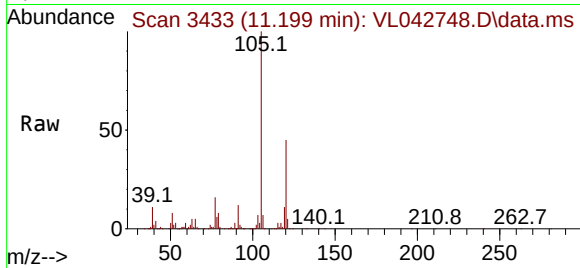




#73
 1,3,5-Trimethylbenzene
 Concen: 2.122 ppbv
 RT: 11.199 min Scan# 3433
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

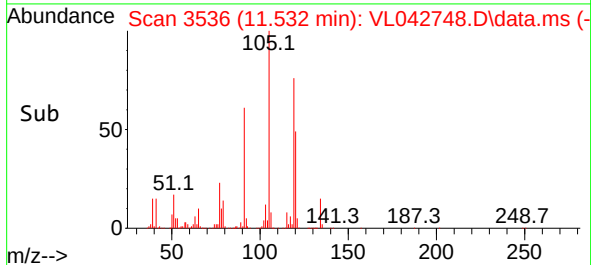
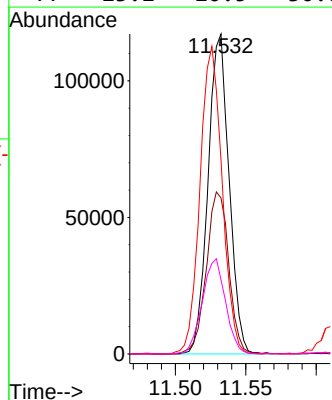
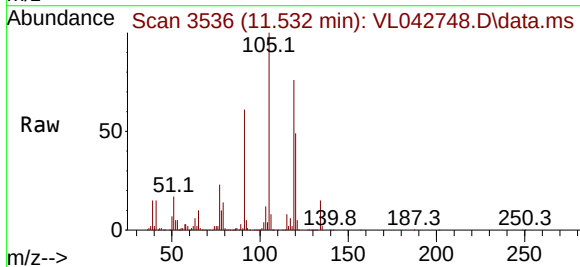
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

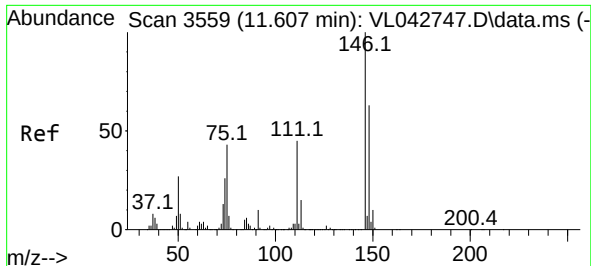
Tgt Ion:105 Resp: 108055
 Ion Ratio Lower Upper
 105 100
 120 45.6 37.8 56.8



#74
 1,2,4-Trimethylbenzene
 Concen: 2.201 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Tgt Ion:105 Resp: 122295
 Ion Ratio Lower Upper
 105 100
 120 48.6 40.8 61.2
 91 60.6 53.0 79.4
 77 23.2 20.5 30.7

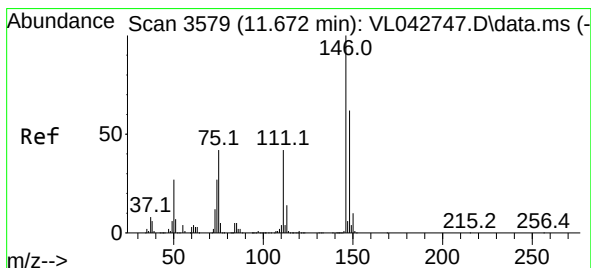
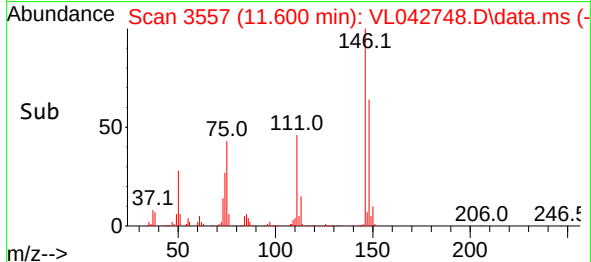
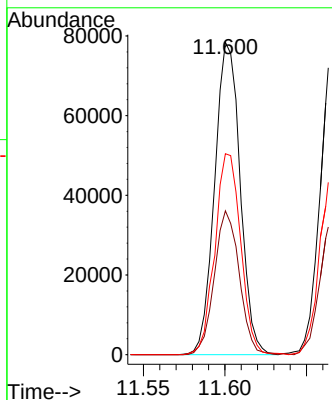
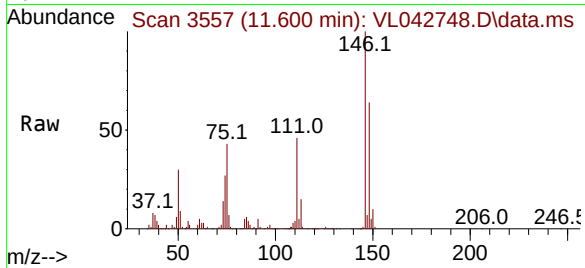




#75
1,3-Dichlorobenzene
Concen: 2.188 ppbv
RT: 11.600 min Scan# 3559
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

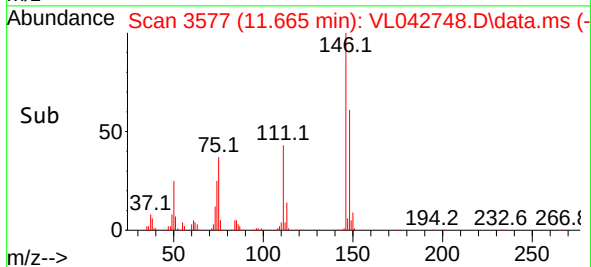
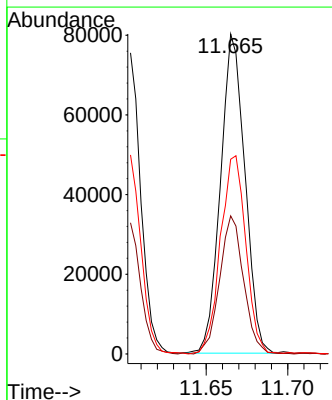
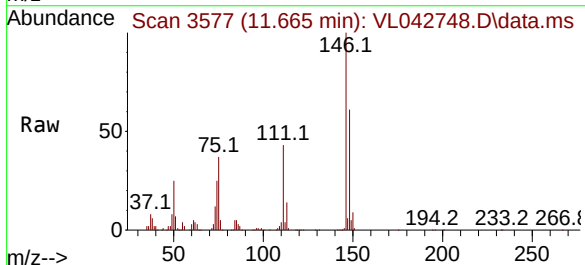
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

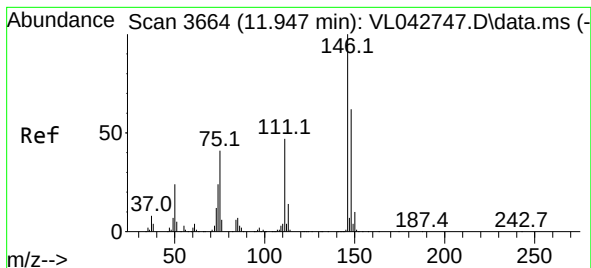
Tgt Ion:146 Resp: 85254
Ion Ratio Lower Upper
146 100
111 45.0 22.7 68.0
148 65.2 31.9 95.5



#76
1,4-Dichlorobenzene
Concen: 2.189 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.007 min
Lab File: VL042748.D
Acq: 23 Jul 2025 09:34

Tgt Ion:146 Resp: 83440
Ion Ratio Lower Upper
146 100
111 42.6 21.4 64.2
148 64.9 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 2.150 ppbv

RT: 11.943 min Scan# 3

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

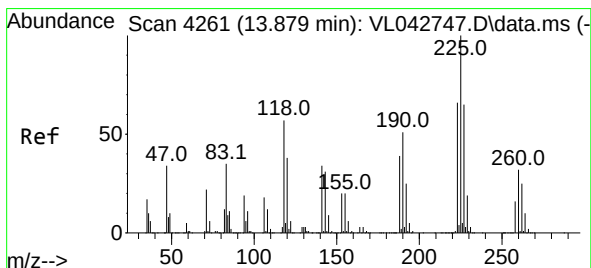
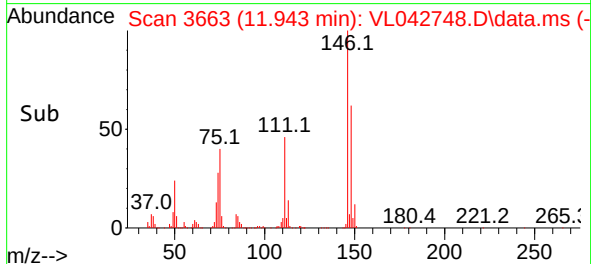
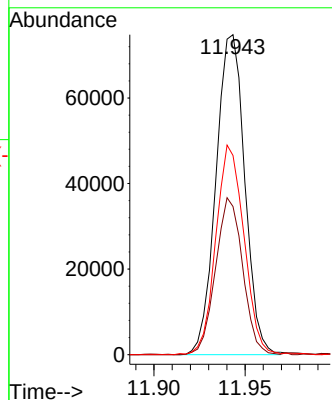
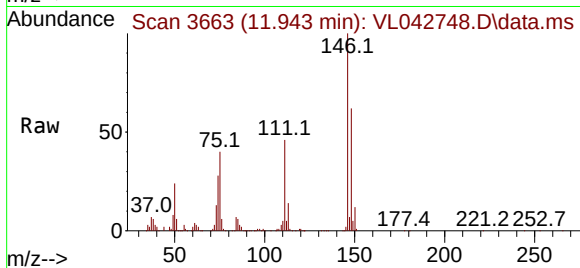
Tgt Ion:146 Resp: 82311

Ion Ratio Lower Upper

146 100

111 46.6 23.7 71.1

148 64.3 32.6 97.7



#78

Hexachloro-1,3-Butadiene

Concen: 2.259 ppbv

RT: 13.876 min Scan# 4260

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

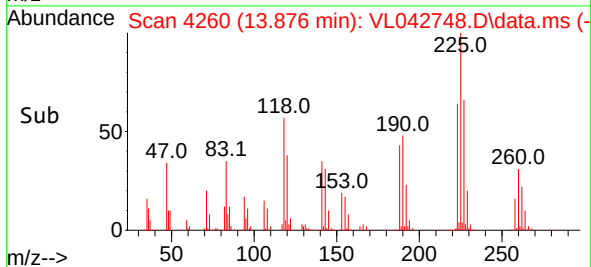
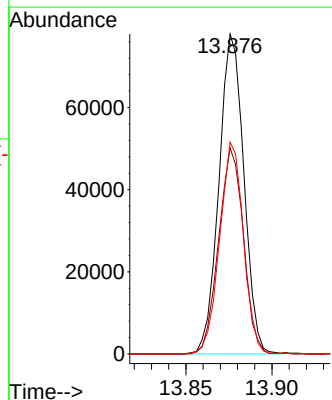
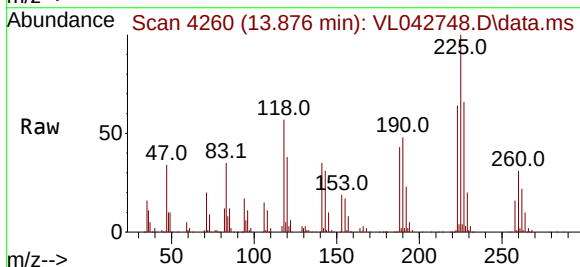
Tgt Ion:225 Resp: 78291

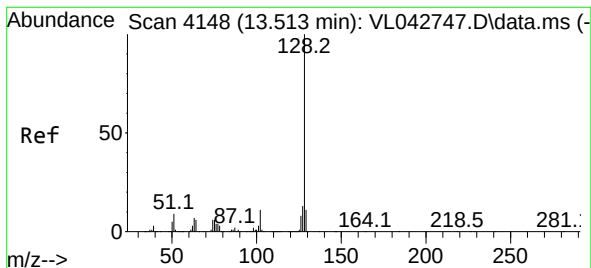
Ion Ratio Lower Upper

225 100

223 64.2 50.7 76.1

227 63.3 50.5 75.7





#79

Naphthalene

Concen: 1.690 ppbv

RT: 13.510 min Scan# 4148

Delta R.T. -0.003 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

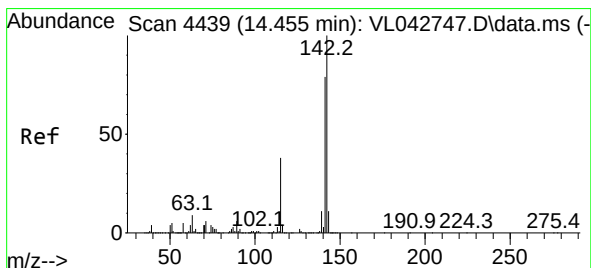
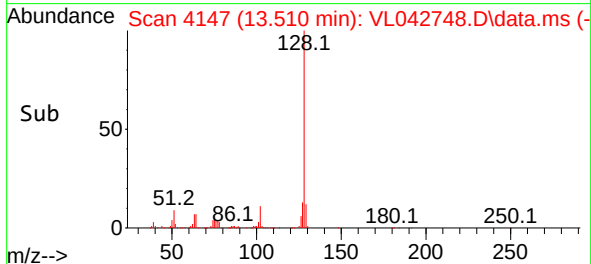
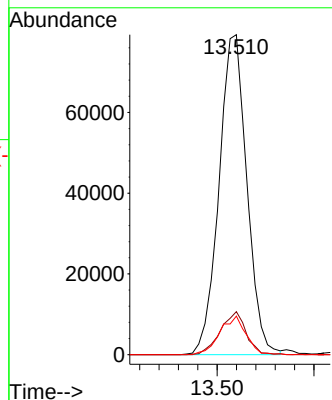
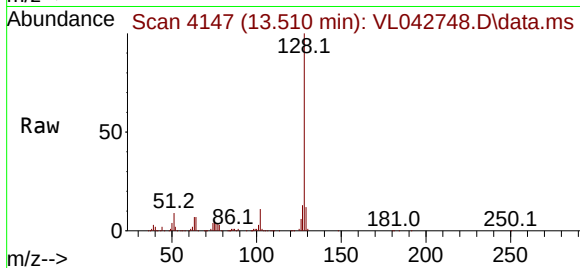
Tgt Ion:128 Resp: 79191

Ion Ratio Lower Upper

128 100

127 13.5 10.5 15.7

129 12.1 8.6 13.0



#80

Naphthalene,2-methyl-

Concen: 1.298 ppbv

RT: 14.455 min Scan# 4439

Delta R.T. -0.000 min

Lab File: VL042748.D

Acq: 23 Jul 2025 09:34

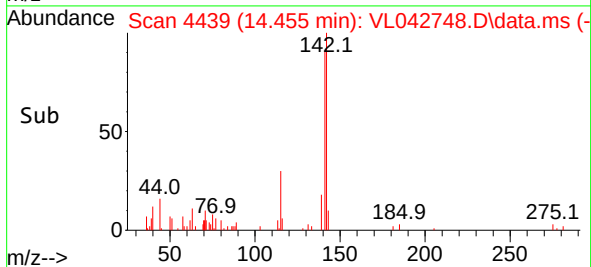
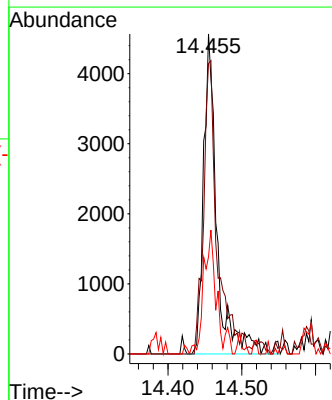
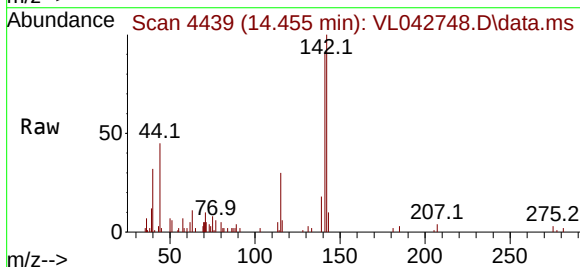
Tgt Ion:142 Resp: 5851

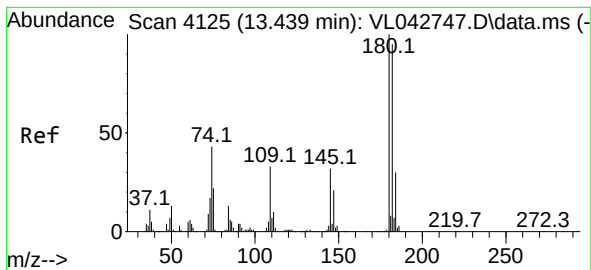
Ion Ratio Lower Upper

142 100

141 94.9 65.8 98.8

115 40.3 31.2 46.8

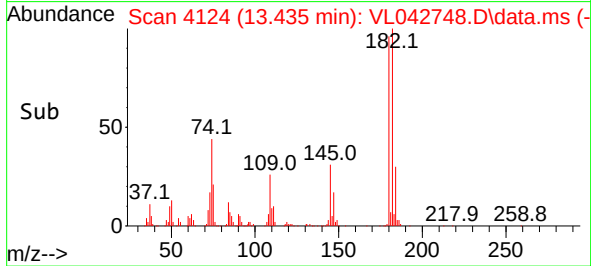
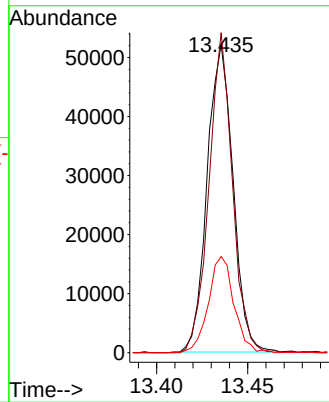
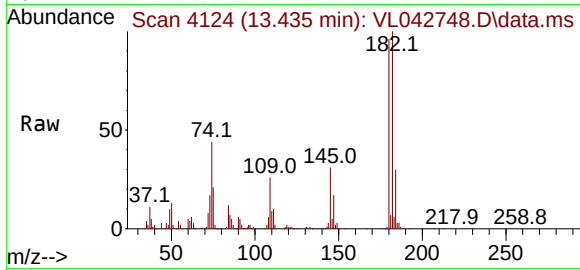




#81
 1,2,4-Trichlorobenzene
 Concen: 1.888 ppbv
 RT: 13.435 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042748.D
 Acq: 23 Jul 2025 09:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:180 Resp: 51515
 Ion Ratio Lower Upper
 180 100
 182 94.3 76.2 114.2
 184 30.9 24.8 37.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042749.D
 Acq On : 23 Jul 2025 10:08
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Jul 24 04:57:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	156293	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	459770	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	410018	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	327673	10.091	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.900%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	20935	1.013	ppbv	93
3) Chlorodifluoromethane	1.473	51	27459	1.020	ppbv	99
4) Chloromethane	1.531	50	9047	1.082	ppbv	96
5) Vinyl Chloride	1.580	62	7432	0.900	ppbv	96
6) Bromomethane	1.667	94	3743	1.172	ppbv #	71
7) Chloroethane	1.703	64	3061	0.959	ppbv	99
8) Dichlorotetrafluoroethane	1.551	85	17668	1.040	ppbv	98
9) Propene	1.483	41	10346	1.057	ppbv	95
10) Heptane	4.975	43	12823	0.487	ppbv #	29
11) Trichlorofluoromethane	1.874	101	22428	1.053	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	16608	1.026	ppbv	97
13) Ethanol	1.719	45	1698	1.331	ppbv	88
14) Bromoethene	1.780	108	5928	1.034	ppbv #	92
15) Acetone	1.832	43	23119	1.071	ppbv	94
16) 1,3-Butadiene	1.606	39	9416	1.023	ppbv	98
17) tert-Butyl alcohol	2.039	59	19926	1.024	ppbv #	93
18) 1,1-Dichloroethene	2.030	96	8276	1.132	ppbv	95
19) Isopropyl Alcohol	1.884	45	11942	1.041	ppbv #	42
20) Methylene Chloride	2.059	84	7153	1.052	ppbv	90
21) Allyl Chloride	2.091	41	13382	1.006	ppbv	92
22) trans-1,2-Dichloroethene	2.337	96	7909	1.007	ppbv	89
23) Vinyl Acetate	2.457	43	23472	0.897	ppbv #	91
24) 1,1-Dichloroethane	2.405	63	17459	1.081	ppbv	99
25) Ethyl Acetate	2.829	43	48790	1.021	ppbv	97
26) Hexane	2.823	57	22279	1.063	ppbv	98
27) Carbon Disulfide	2.146	76	18488	1.031	ppbv #	1
28) Methyl tert-Butyl Ether	2.434	73	9587	0.968	ppbv	90
29) Chloroform	2.845	83	32880	1.015	ppbv	95
30) Cyclohexane	3.852	84	17824	1.003	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	21979	1.021	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	32003	0.949	ppbv	97
34) 2-Butanone	2.554	43	32783	1.007	ppbv	98
35) Carbon Tetrachloride	3.758	117	32610	0.954	ppbv	92
36) Benzene	3.651	78	44638	1.024	ppbv	98
37) 1,2-Dichloroethane	3.211	62	26909	1.025	ppbv #	96
38) Trichloroethene	4.538	130	21122	1.005	ppbv	93
39) 1,2-Dichloropropane	4.305	63	16622	1.033	ppbv	94
40) 1,4-Dioxane	4.587	88	4184	0.552	ppbv #	21
41) Tetrahydrofuran	3.056	42	16097	0.984	ppbv	97
42) Bromodichloromethane	4.486	83	13285	0.388	ppbv	99
43) Methyl Methacrylate	4.868	69	7135	0.461	ppbv #	1
44) 2,2,4-Trimethylpentane	4.629	57	72865	1.026	ppbv	99
45) t-1,3-Dichloropropene	6.399	75	4937	0.284	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042749.D
 Acq On : 23 Jul 2025 10:08
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

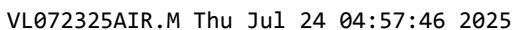
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

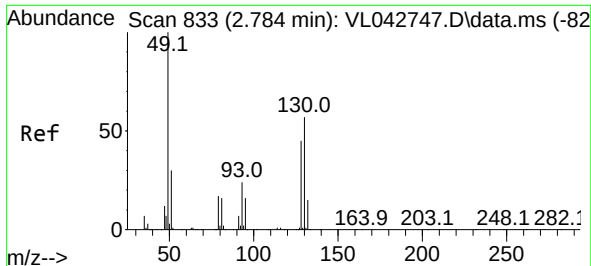
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 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	9670	0.439	ppbv #	94
47) 1,1,2-Trichloroethane	6.574	97	17646	1.029	ppbv #	82
48) Dibromochloromethane	7.380	129	26259	0.965	ppbv	99
49) Bromoform	9.474	173	23083	0.973	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	20247	0.488	ppbv #	40
51) 2-Hexanone	7.435	43	29761	0.939	ppbv #	100
52) Tetrachloroethene	8.215	164	18131	1.001	ppbv	96
53) Toluene	6.927	91	45645	0.976	ppbv	98
54) 1,2-Dibromoethane	7.642	107	24427	1.007	ppbv	85
56) 1,1,1,2-Tetrachloroethane	8.920	131	21319	1.000	ppbv	94
57) Chlorobenzene	8.911	112	41788	1.053	ppbv #	85
58) Ethyl Benzene	9.351	91	63467	0.980	ppbv	98
59) m/p-Xylene	9.545	91	43966	0.849	ppbv #	3
60) o-Xylene	9.959	91	52499	1.015	ppbv	99
61) Styrene	9.865	104	20313	0.934	ppbv	97
62) Isopropylbenzene	10.532	105	77278	1.013	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.956	83	32591	0.967	ppbv	100
64) n-propylbenzene	10.985	120	20073	1.009	ppbv	95
65) tert-Butylbenzene	11.526	119	68428	1.010	ppbv	95
66) Benzyl Chloride	11.610	91	4700	0.845	ppbv	96
67) sec-Butylbenzene	11.762	105	101458	1.053	ppbv	99
69) p-Isopropyltoluene	11.921	119	78186	0.995	ppbv	98
70) n-Butylbenzene	12.277	91	74257	0.978	ppbv	98
71) 2-Chlorotoluene	10.895	91	59193	1.012	ppbv	100
72) 4-Ethyltoluene	11.121	105	61199	0.991	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	48901	0.962	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	55153	0.994	ppbv	97
75) 1,3-Dichlorobenzene	11.600	146	39753	1.022	ppbv	97
76) 1,4-Dichlorobenzene	11.665	146	38018	0.999	ppbv	98
77) 1,2-Dichlorobenzene	11.943	146	40835	1.068	ppbv	98
78) Hexachloro-1,3-Butadiene	13.876	225	37228	1.076	ppbv	98
79) Naphthalene	13.510	128	29792	0.907	ppbv	97
80) Naphthalene,2-methyl-	14.449	142	1950	1.184	ppbv #	78
81) 1,2,4-Trichlorobenzene	13.435	180	21929	1.053	ppbv	98

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

Quant Time: Jul 24 04:57:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

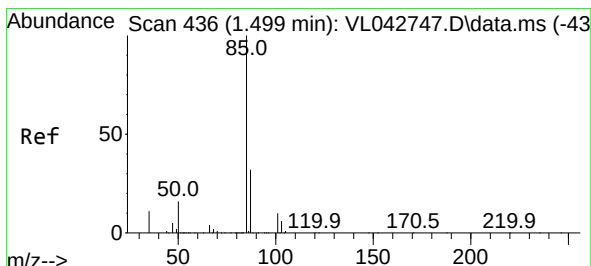
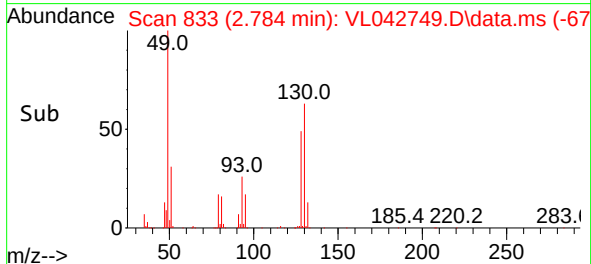
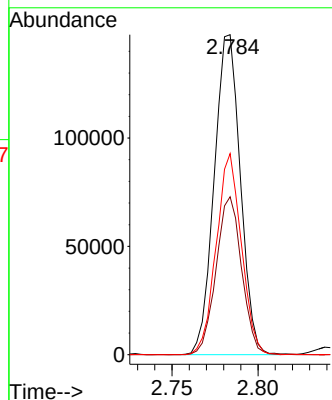
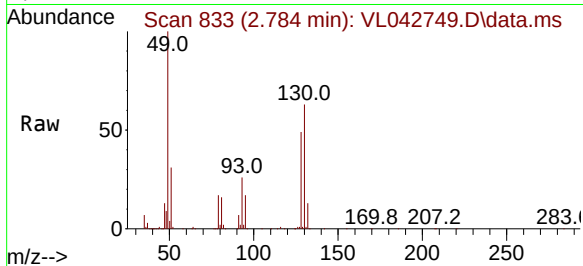




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

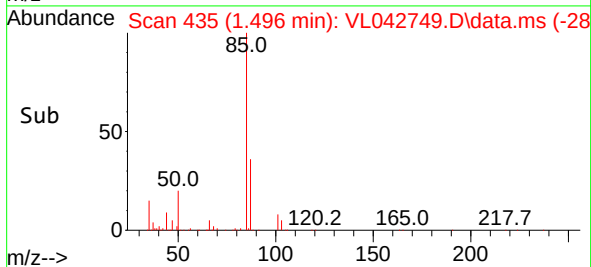
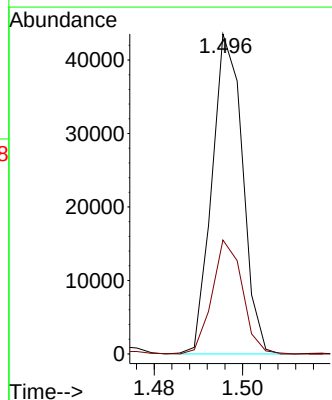
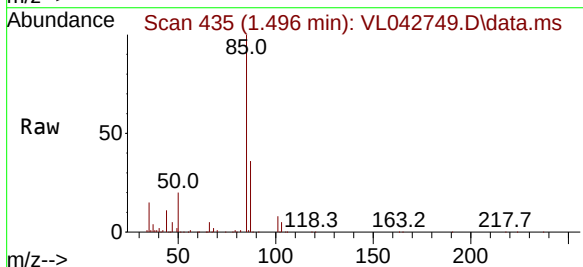
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

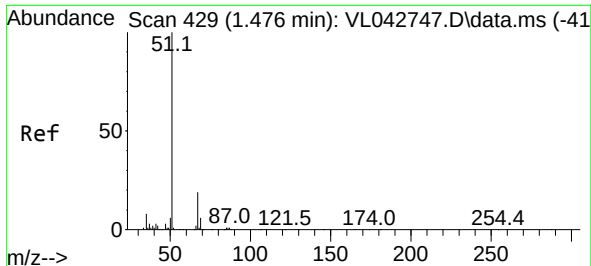
Tgt Ion: 49 Resp: 156293
Ion Ratio Lower Upper
49 100
128 48.2 23.6 71.0
130 60.4 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 1.013 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 85 Resp: 20935
Ion Ratio Lower Upper
85 100
87 35.6 25.4 38.2

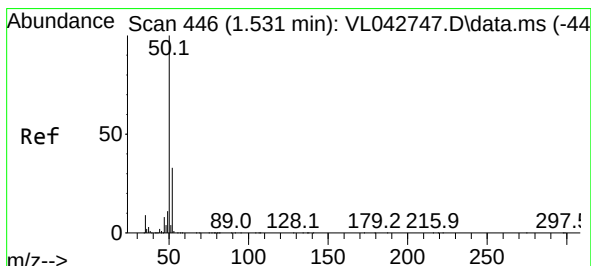
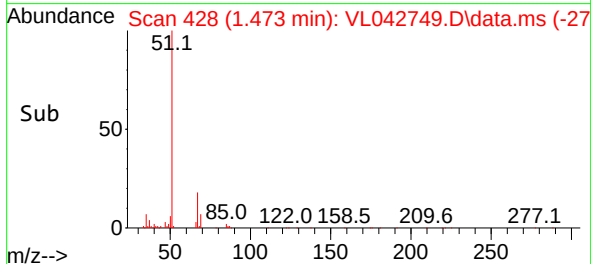
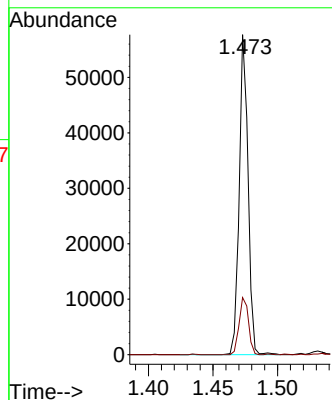
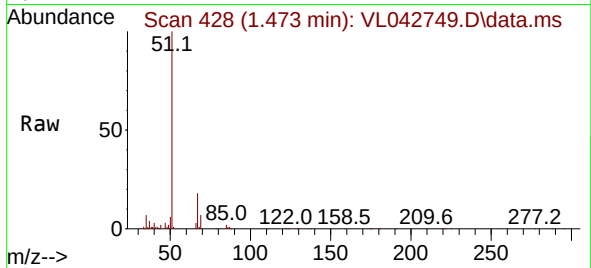




#3
Chlorodifluoromethane
Concen: 1.020 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

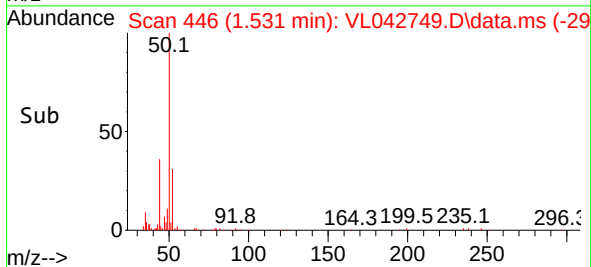
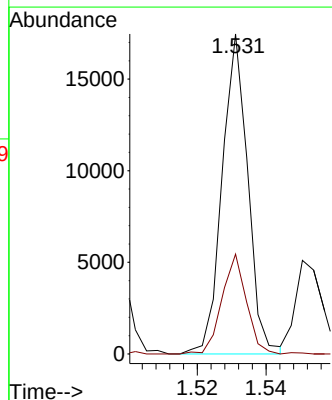
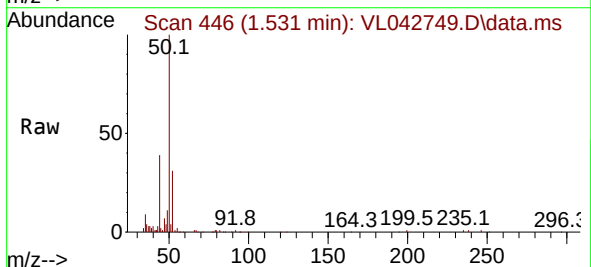
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

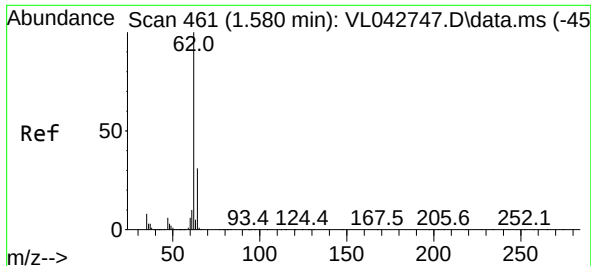
Tgt Ion: 51 Resp: 27459
Ion Ratio Lower Upper
51 100
67 19.3 15.0 22.6



#4
Chloromethane
Concen: 1.082 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 50 Resp: 9047
Ion Ratio Lower Upper
50 100
52 31.2 26.6 40.0

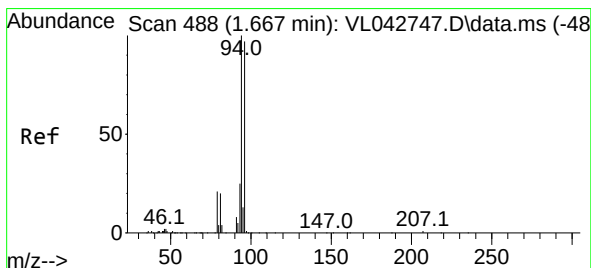
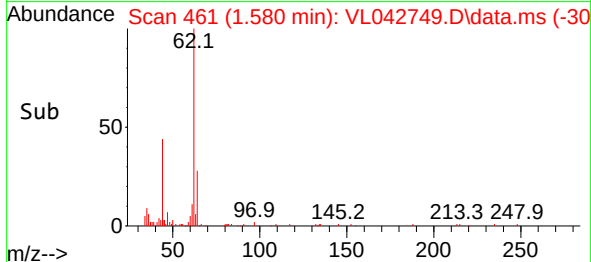
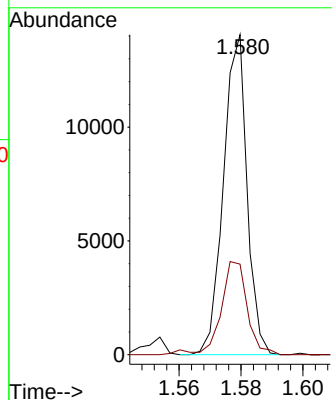
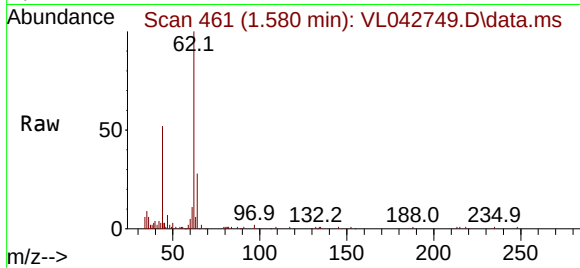




#5
 Vinyl Chloride
 Concen: 0.900 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

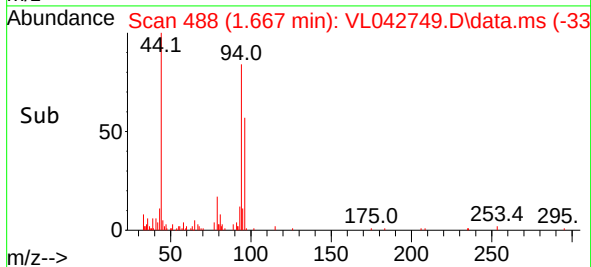
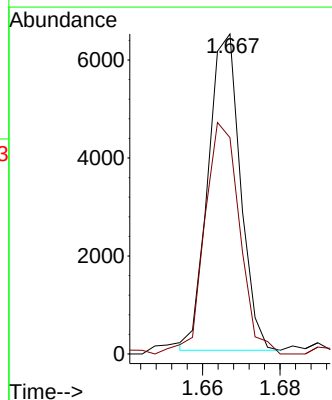
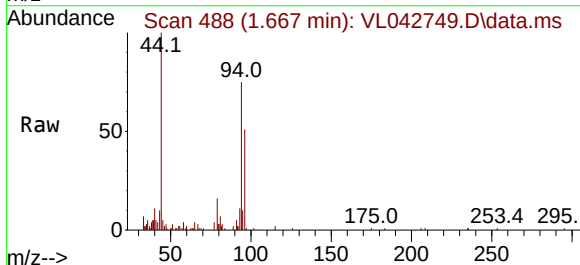
Instrument :
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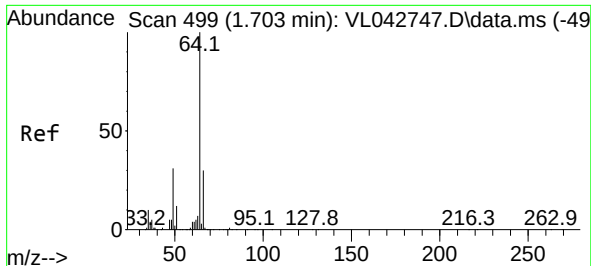
Tgt Ion: 62 Resp: 7432
 Ion Ratio Lower Upper
 62 100
 64 28.3 24.5 36.7



#6
 Bromomethane
 Concen: 1.172 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 94 Resp: 3743
 Ion Ratio Lower Upper
 94 100
 96 68.4 77.6 116.4#

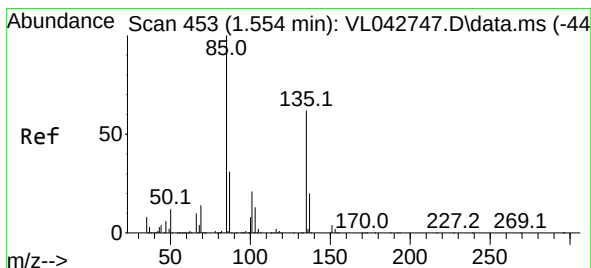
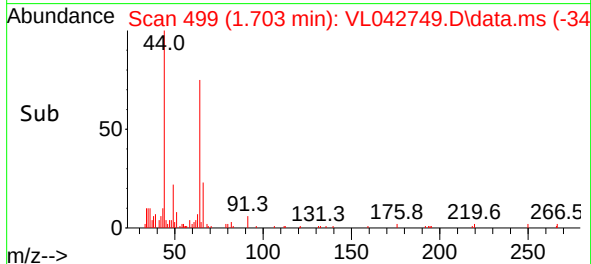
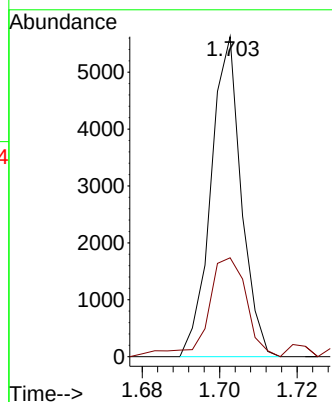
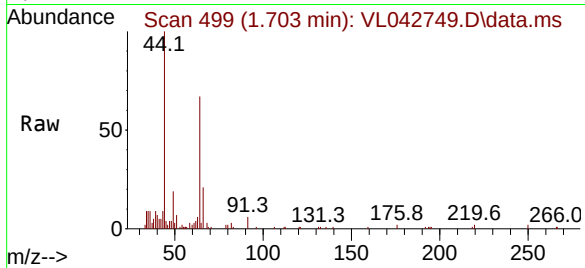




#7
Chloroethane
Concen: 0.959 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

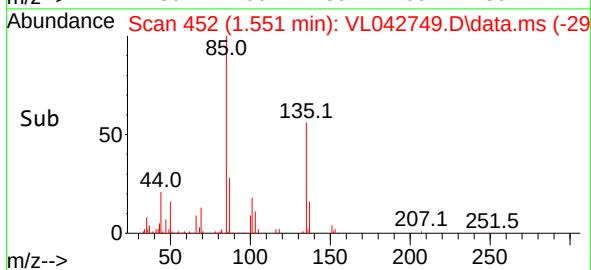
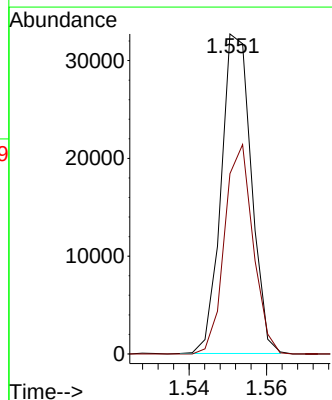
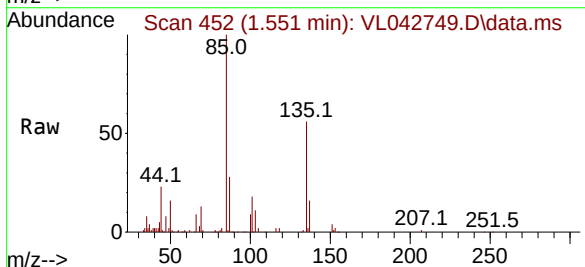
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

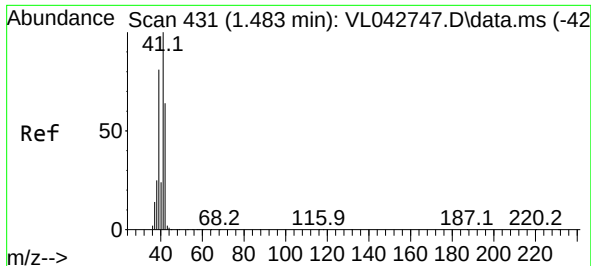
Tgt Ion: 64 Resp: 3061
Ion Ratio Lower Upper
64 100
66 30.9 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 1.040 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 85 Resp: 17668
Ion Ratio Lower Upper
85 100
135 62.1 50.6 76.0

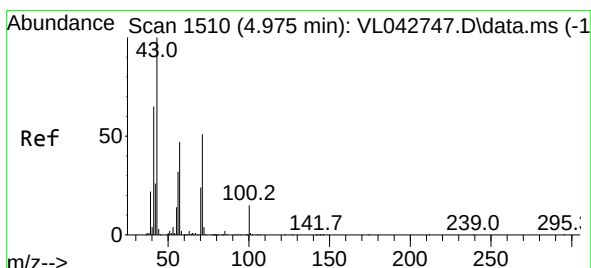
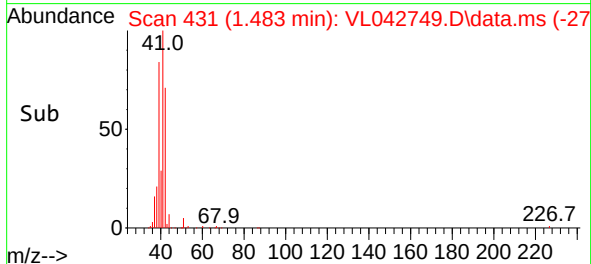
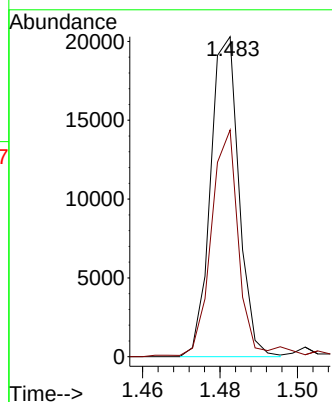
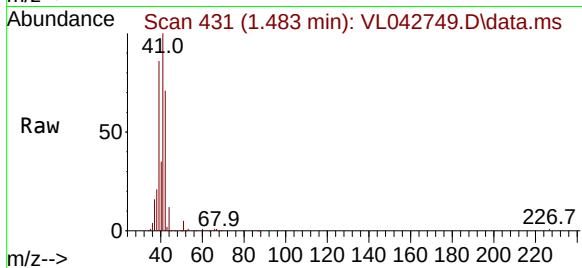




#9
Propene
Concen: 1.057 ppbv
RT: 1.483 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

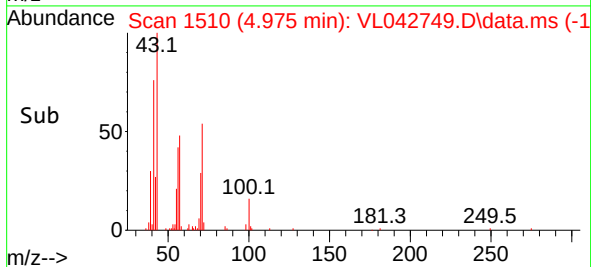
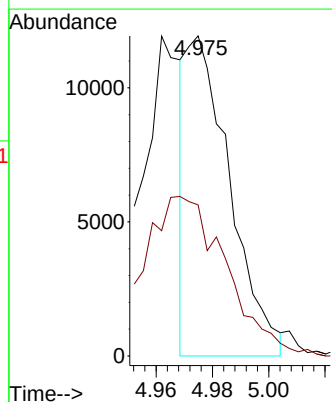
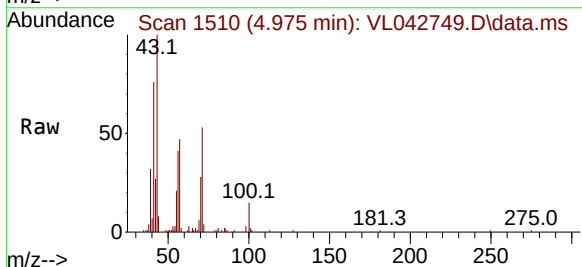
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

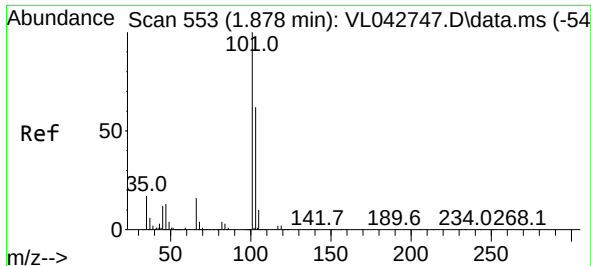
Tgt Ion: 41 Resp: 10346
Ion Ratio Lower Upper
41 100
42 70.5 53.2 79.8



#10
Heptane
Concen: 0.487 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 43 Resp: 12823
Ion Ratio Lower Upper
43 100
57 98.9 39.9 59.9#

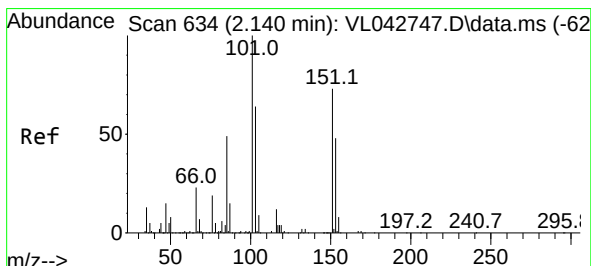
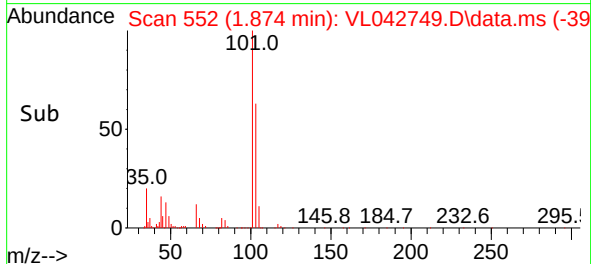
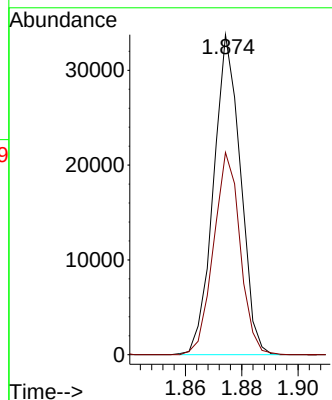
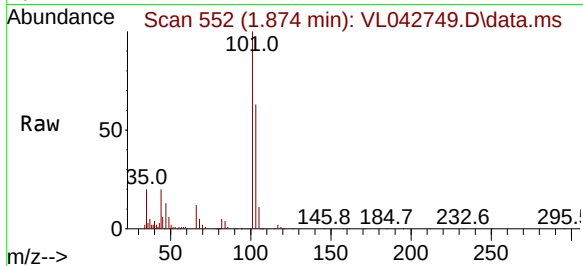




#11
 Trichlorofluoromethane
 Concen: 1.053 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

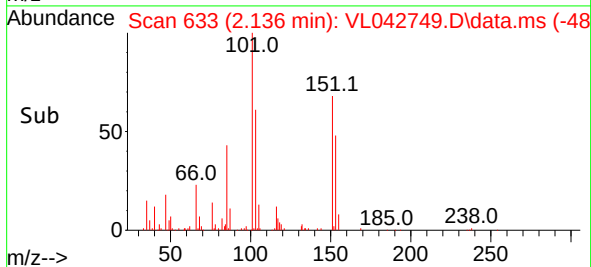
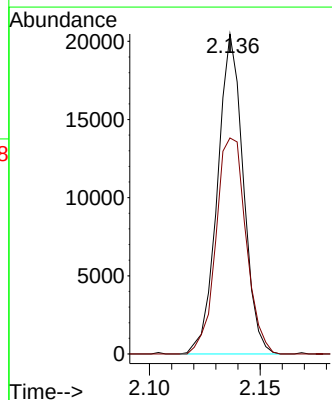
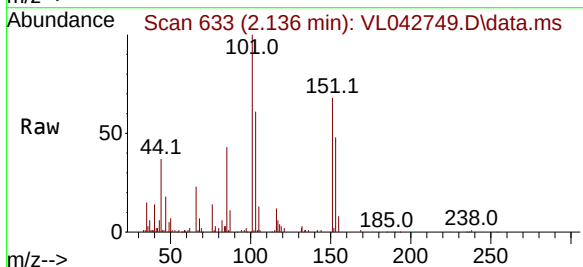
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

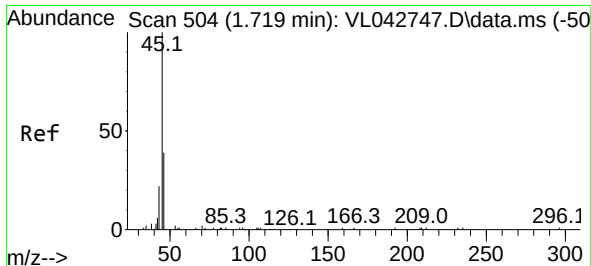
Tgt Ion:101 Resp: 22428
 Ion Ratio Lower Upper
 101 100
 103 63.2 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.026 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion:101 Resp: 16608
 Ion Ratio Lower Upper
 101 100
 151 78.6 60.5 90.7

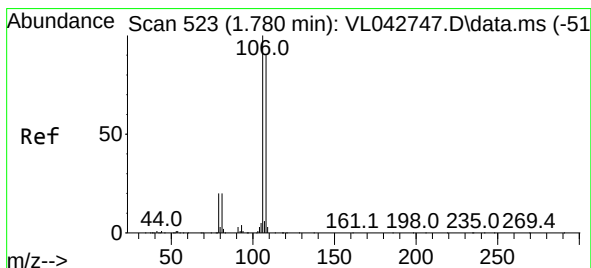
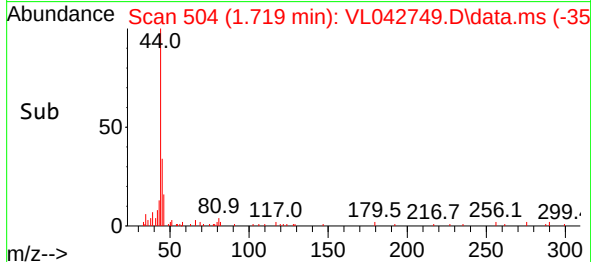
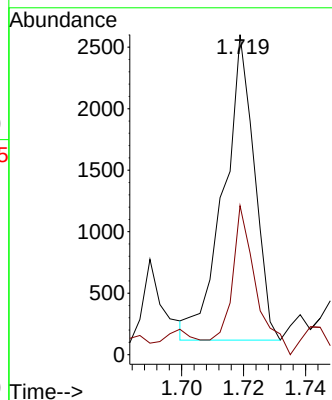
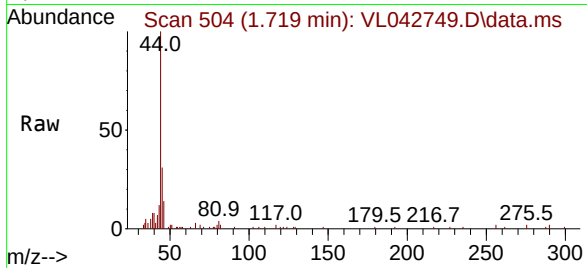




#13
 Ethanol
 Concen: 1.331 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. -0.000 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

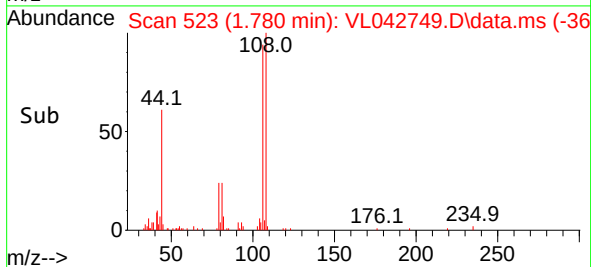
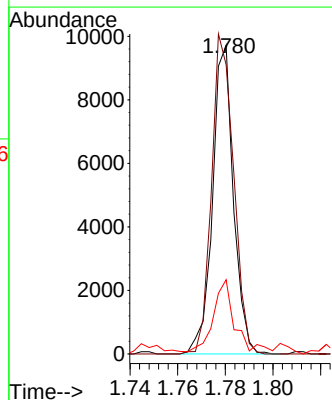
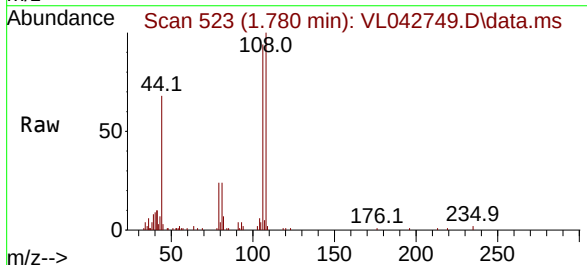
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

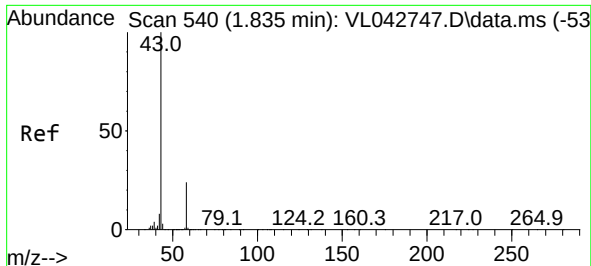
Tgt Ion: 45 Resp: 1698
 Ion Ratio Lower Upper
 45 100
 46 36.6 17.8 71.4



#14
 Bromoethene
 Concen: 1.034 ppbv
 RT: 1.780 min Scan# 523
 Delta R.T. -0.000 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 108 Resp: 5928
 Ion Ratio Lower Upper
 108 100
 106 108.7 84.7 127.1
 79 38.6 17.4 26.2#

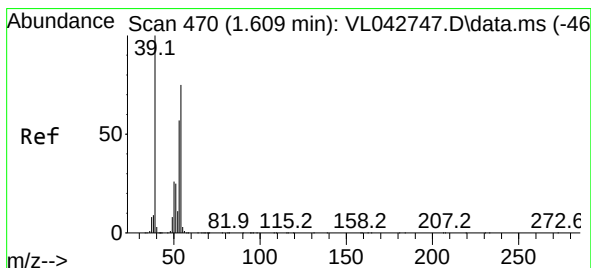
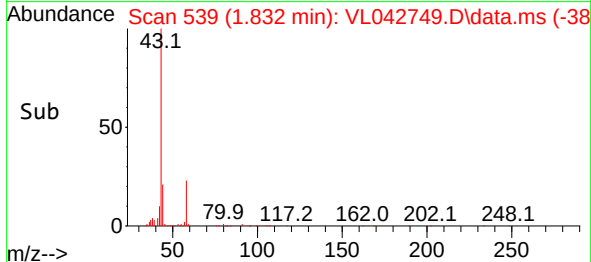
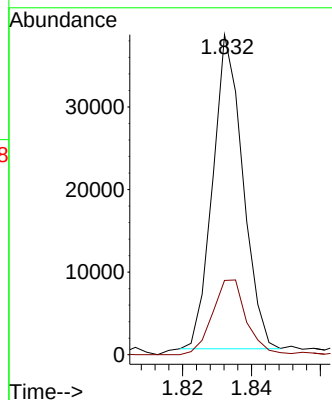
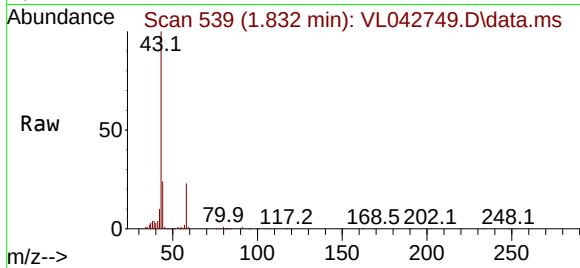




#15
Acetone
Concen: 1.071 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

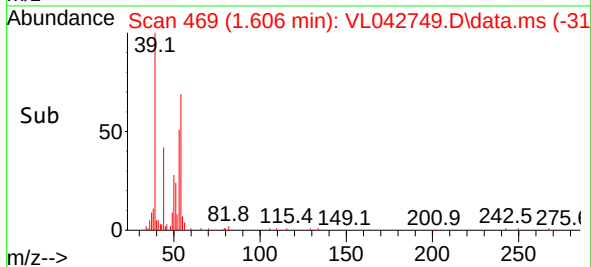
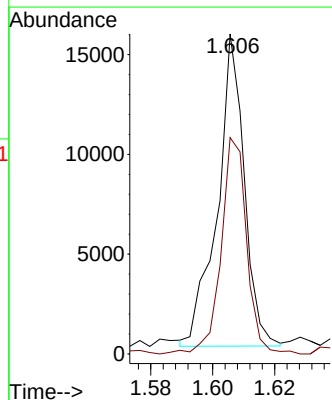
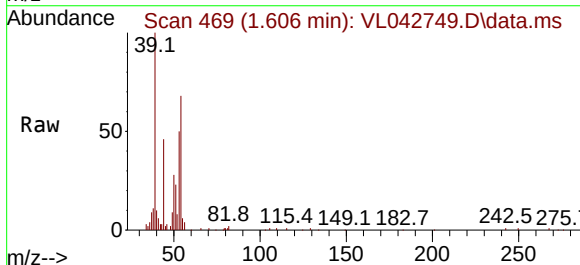
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

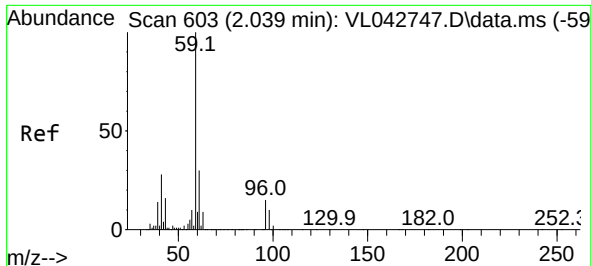
Tgt Ion: 43 Resp: 23119
Ion Ratio Lower Upper
43 100
58 27.7 19.8 29.8



#16
1,3-Butadiene
Concen: 1.023 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 39 Resp: 9416
Ion Ratio Lower Upper
39 100
54 69.7 54.5 81.7





#17

tert-Butyl alcohol

Concen: 1.024 ppbv

RT: 2.039 min Scan# 603

Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

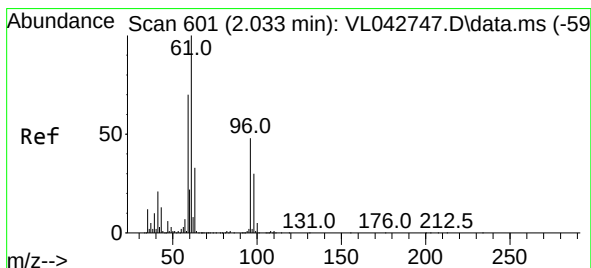
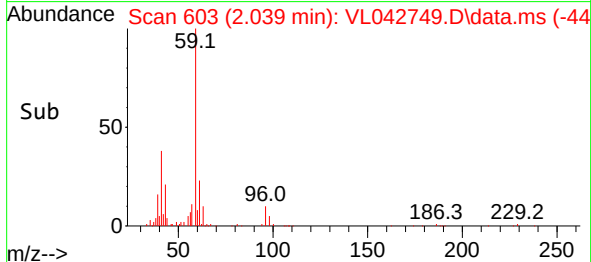
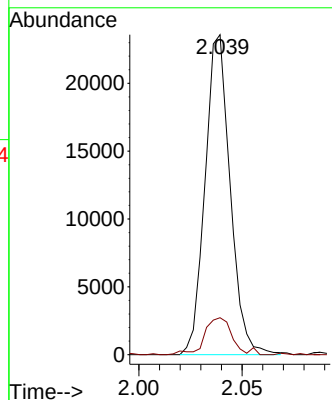
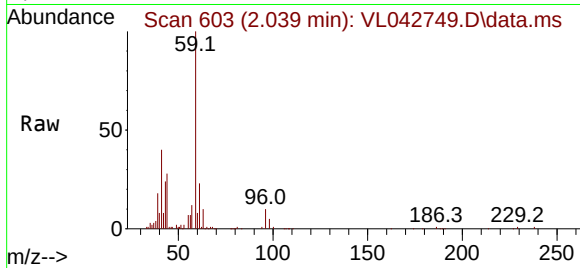
VSTDIC001

Tgt Ion: 59 Resp: 19926

Ion Ratio Lower Upper

59 100

57 12.9 8.3 12.5#



#18

1,1-Dichloroethene

Concen: 1.132 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

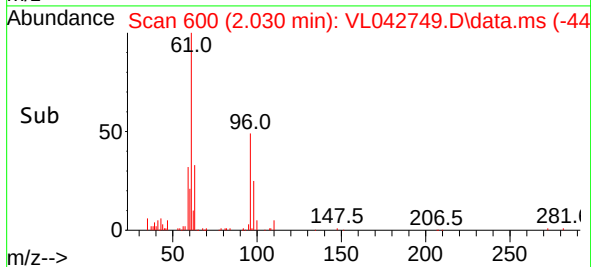
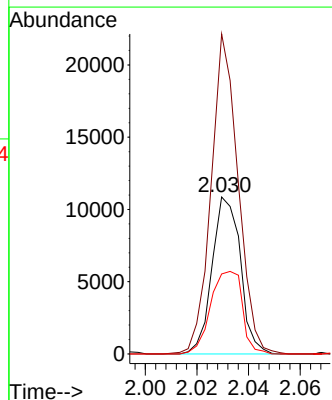
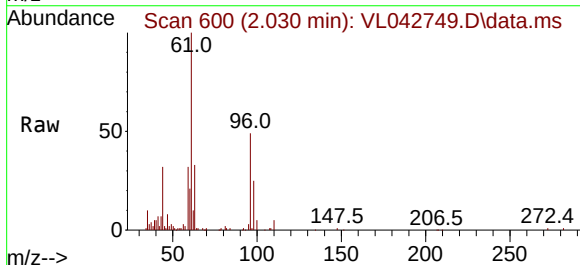
Tgt Ion: 96 Resp: 8276

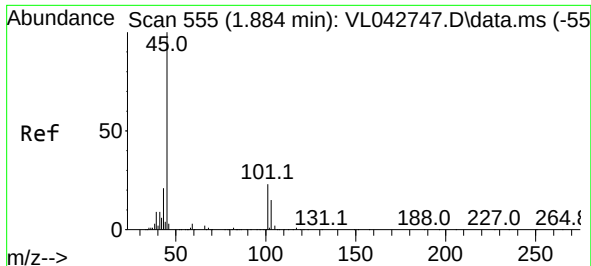
Ion Ratio Lower Upper

96 100

61 203.0 165.8 248.6

98 51.0 49.9 74.9

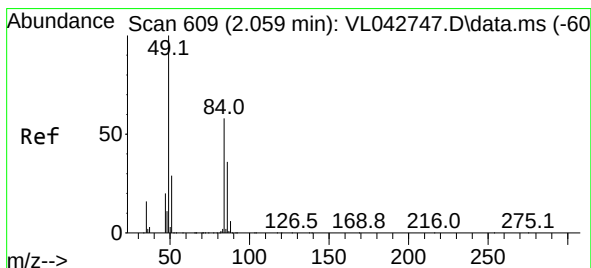
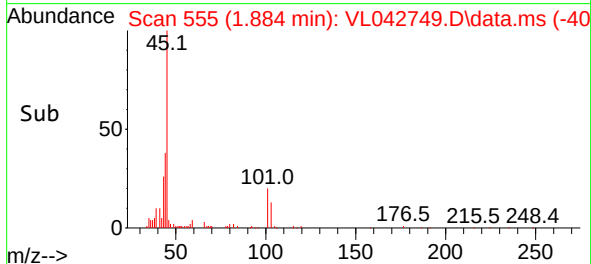
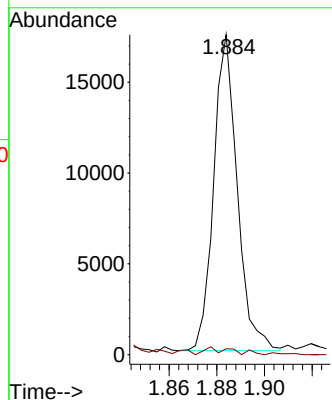
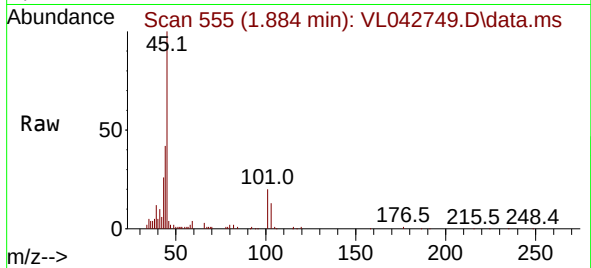




#19
Isopropyl Alcohol
Concen: 1.041 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

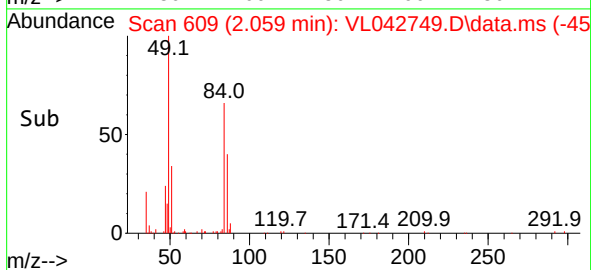
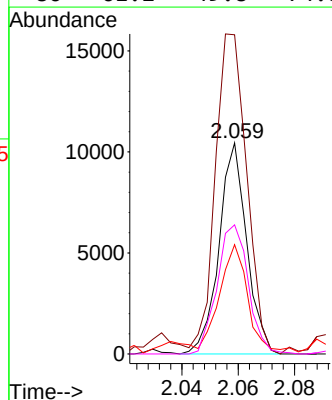
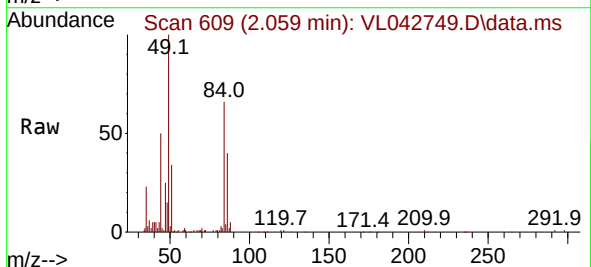
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

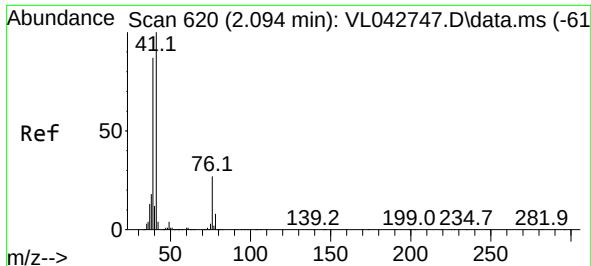
Tgt Ion: 45 Resp: 11942
Ion Ratio Lower Upper
45 100
58 2.8 30.0 45.0#



#20
Methylene Chloride
Concen: 1.052 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 84 Resp: 7153
Ion Ratio Lower Upper
84 100
49 151.3 138.6 208.0
51 50.2 40.6 61.0
86 61.2 49.8 74.8

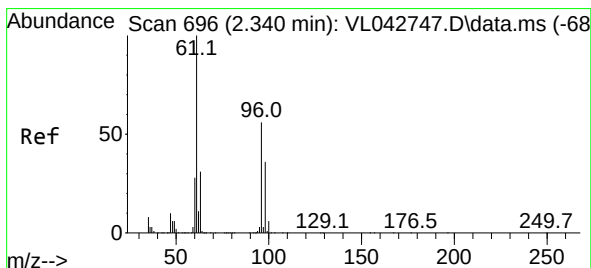
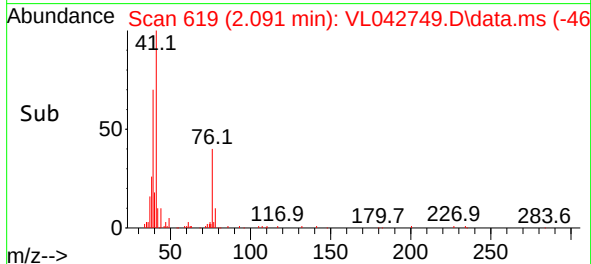
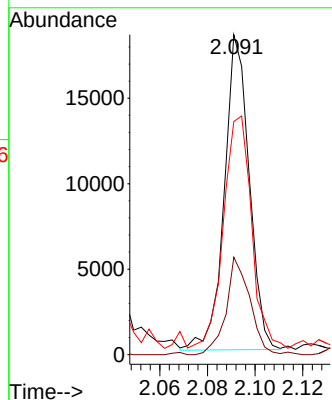
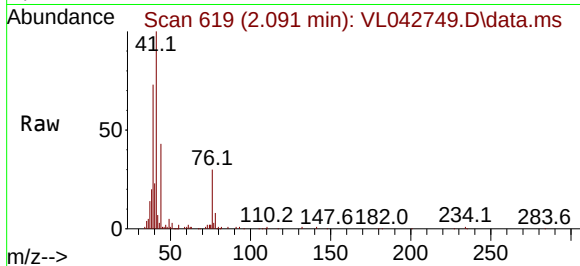




#21
 Allyl Chloride
 Concen: 1.006 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

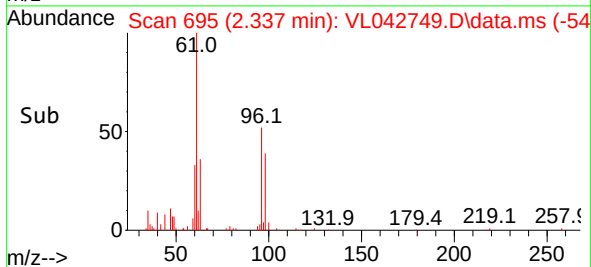
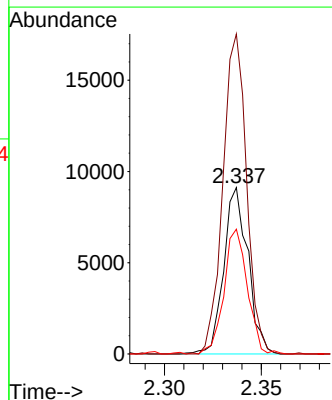
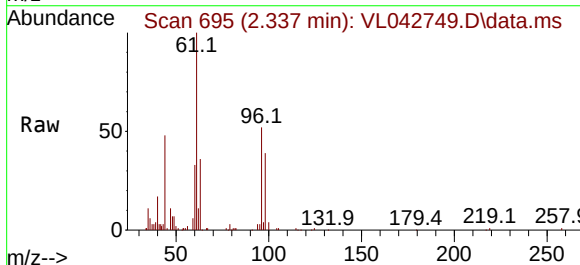
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

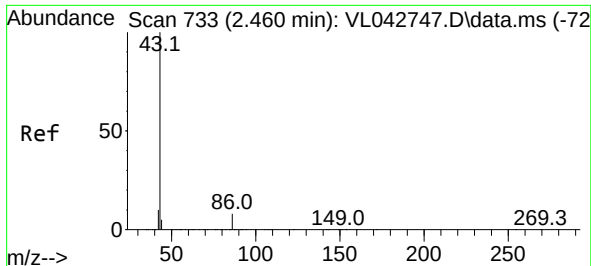
Tgt Ion: 41 Resp: 13382
 Ion Ratio Lower Upper
 41 100
 76 30.1 21.1 31.7
 39 93.4 68.3 102.5



#22
 trans-1,2-Dichloroethene
 Concen: 1.007 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 96 Resp: 7909
 Ion Ratio Lower Upper
 96 100
 61 192.3 142.3 213.5
 98 74.2 50.6 76.0

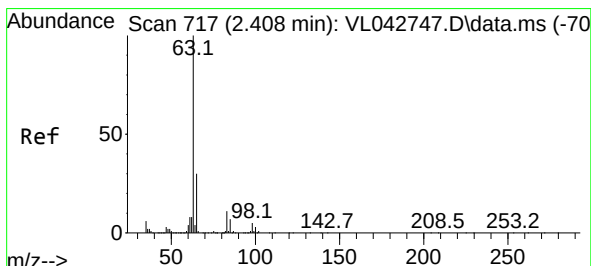
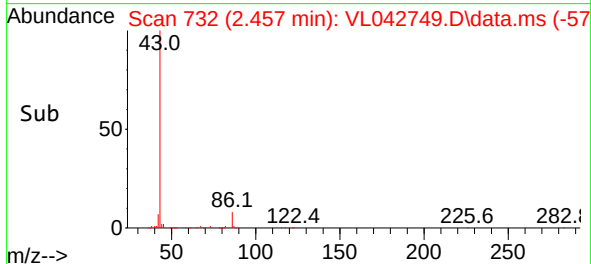
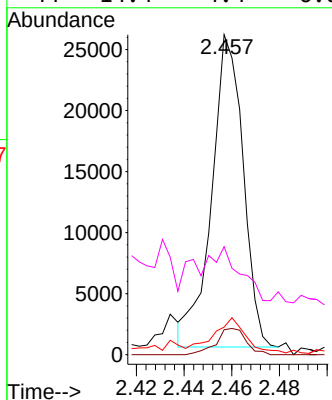
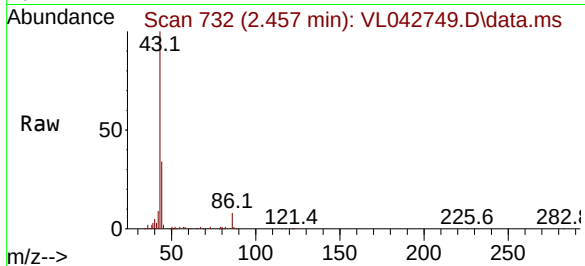




#23
 Vinyl Acetate
 Concen: 0.897 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

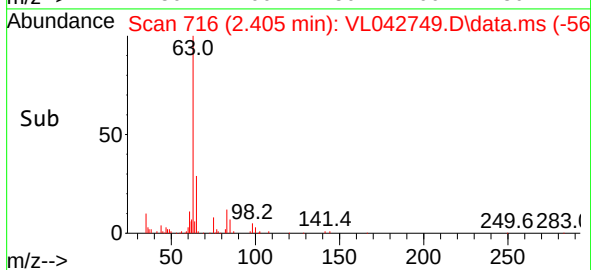
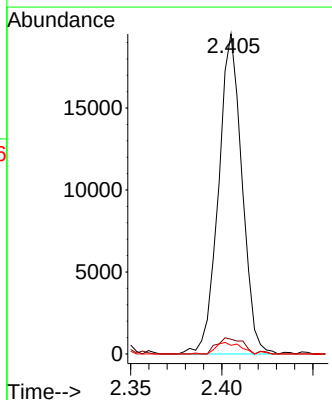
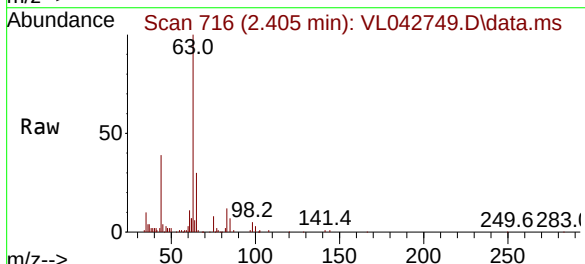
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

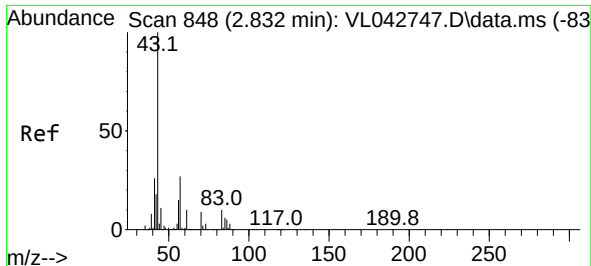
Tgt Ion:	43	Resp:	23472
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.1	9.1
42	7.5	7.8	11.8#
44	14.4	4.4	6.6#



#24
 1,1-Dichloroethane
 Concen: 1.081 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion:	63	Resp:	17459
Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.5	7.4
100	2.7	1.6	4.8



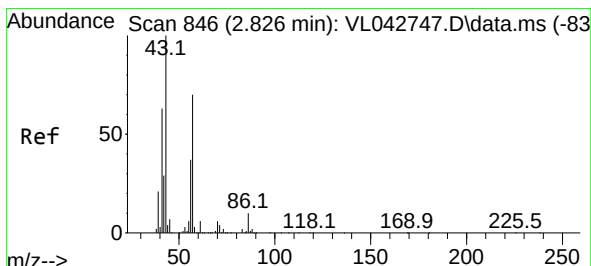
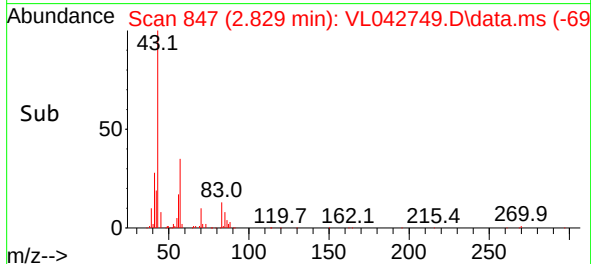
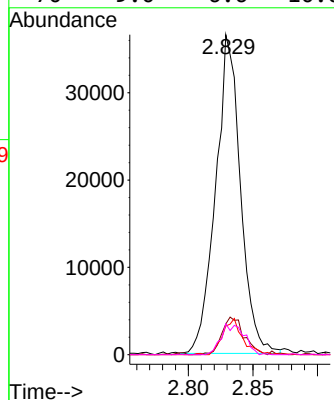
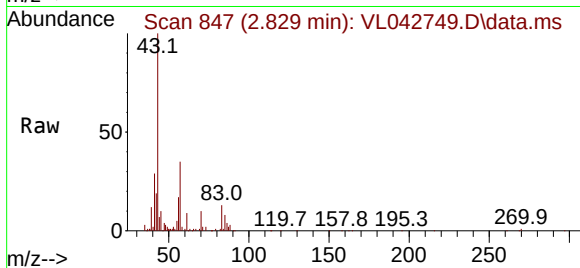


#25
Ethyl Acetate
Concen: 1.021 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 48790

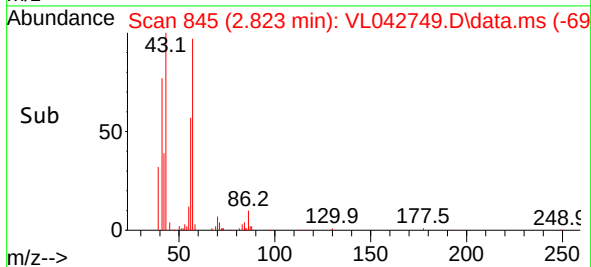
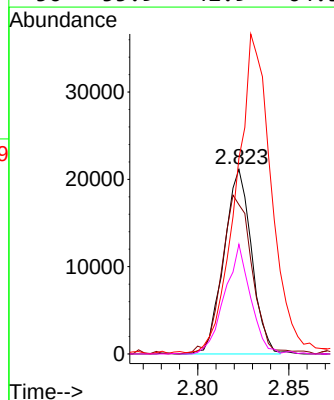
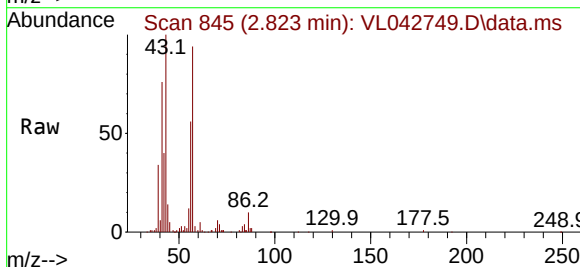
Ion	Ratio	Lower	Upper
43	100		
45	11.3	7.8	11.6
61	9.3	6.7	10.1
70	9.0	6.6	10.0

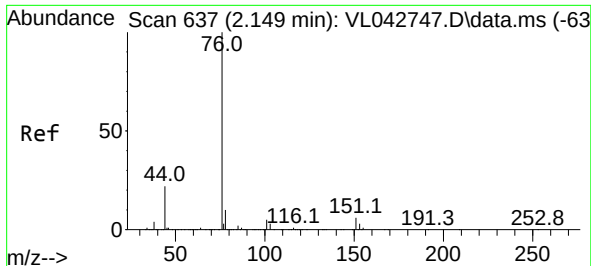


#26
Hexane
Concen: 1.063 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 57 Resp: 22279

Ion	Ratio	Lower	Upper
57	100		
41	98.5	75.4	113.2
43	230.7	185.0	277.6
56	55.9	42.9	64.3

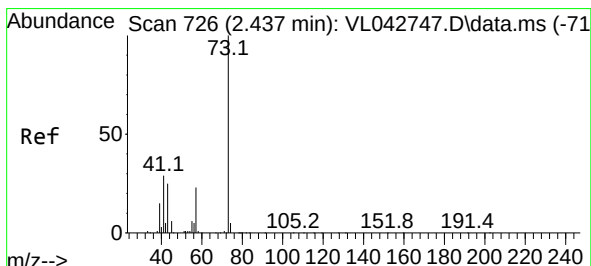
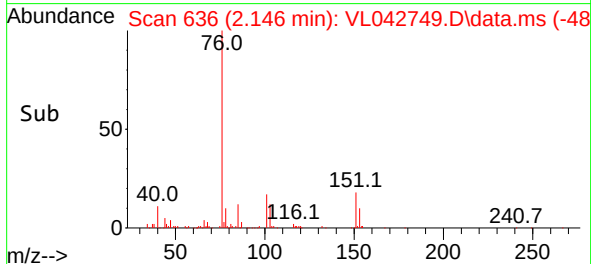
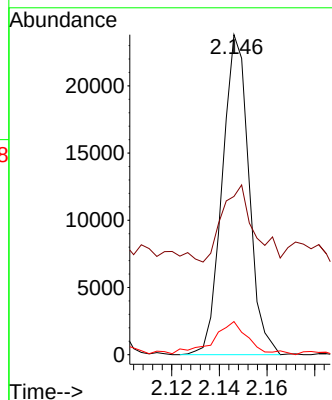
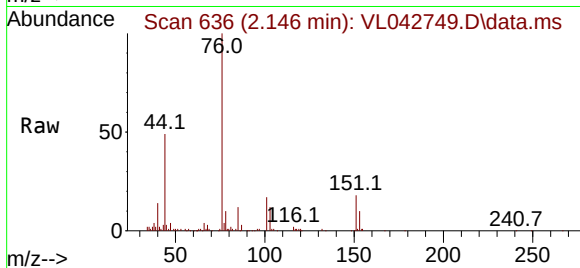




#27
Carbon Disulfide
Concen: 1.031 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

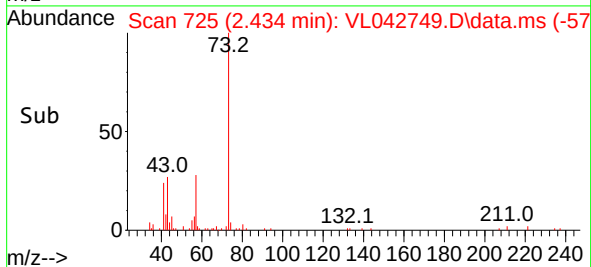
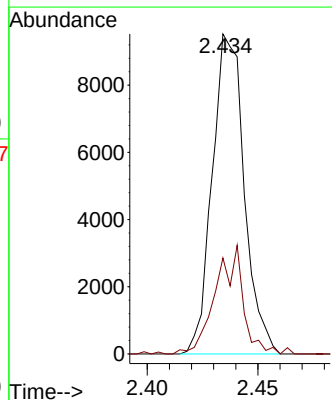
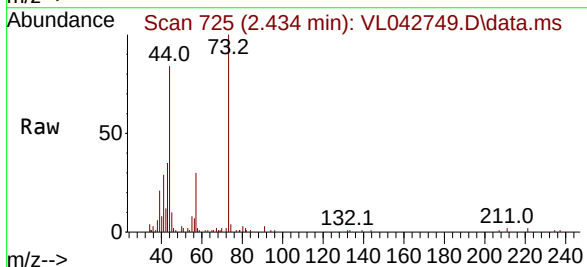
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

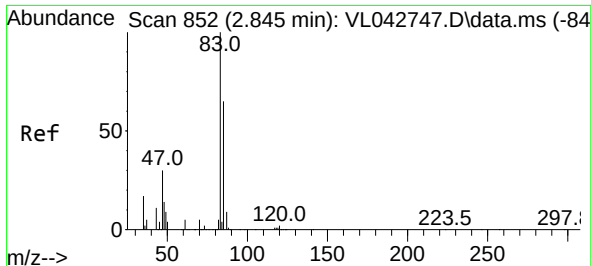
Tgt Ion: 76 Resp: 18488
Ion Ratio Lower Upper
76 100
44 115.6 19.3 28.9#
78 14.9 9.9 14.9#



#28
Methyl tert-Butyl Ether
Concen: 0.968 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 73 Resp: 9587
Ion Ratio Lower Upper
73 100
57 29.7 19.8 29.8





#29

Chloroform

Concen: 1.015 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

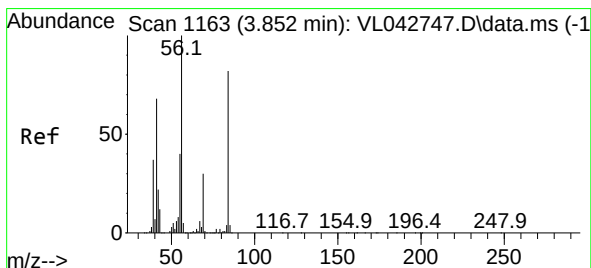
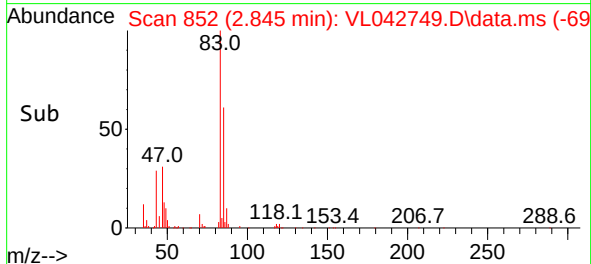
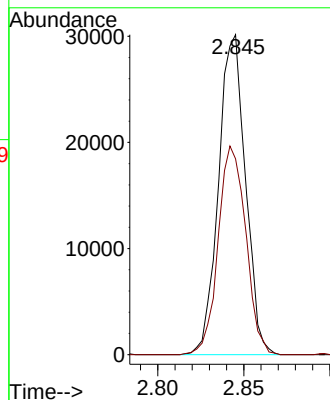
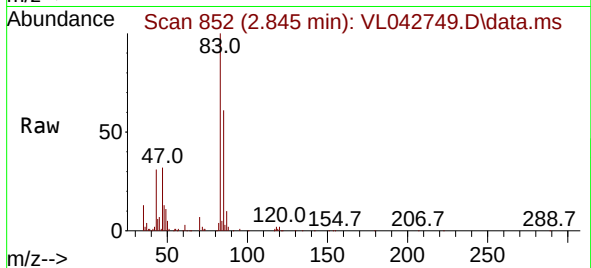
VSTDIC001

Tgt Ion: 83 Resp: 32880

Ion Ratio Lower Upper

83 100

85 61.2 52.2 78.2



#30

Cyclohexane

Concen: 1.003 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

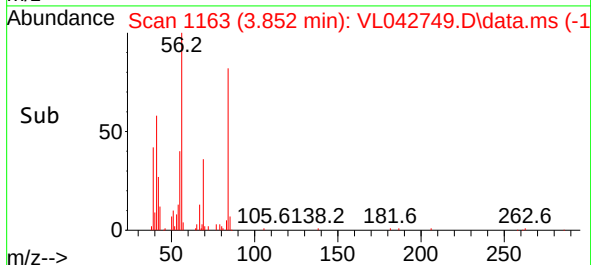
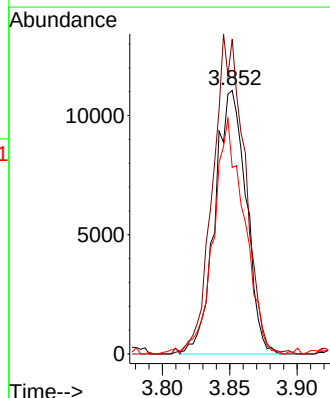
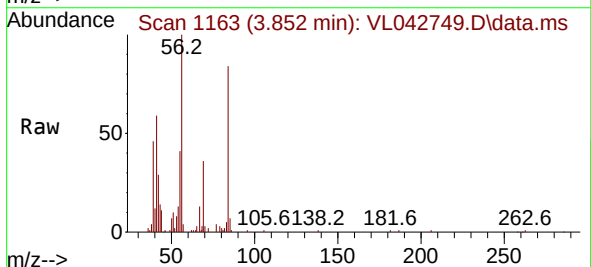
Tgt Ion: 84 Resp: 17824

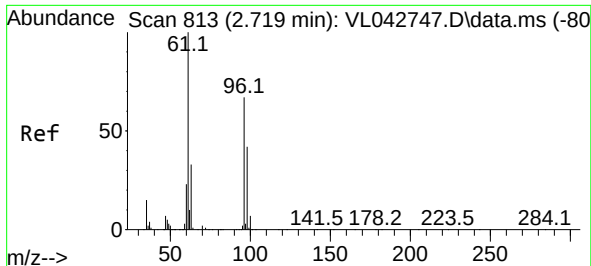
Ion Ratio Lower Upper

84 100

56 124.3 97.5 146.3

41 88.5 67.2 100.8

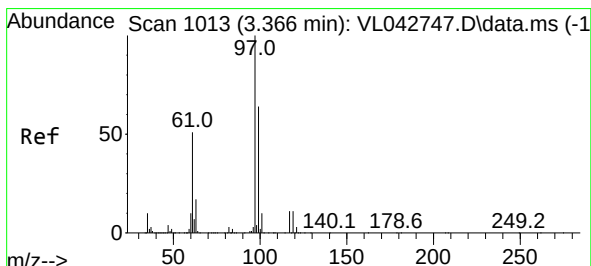
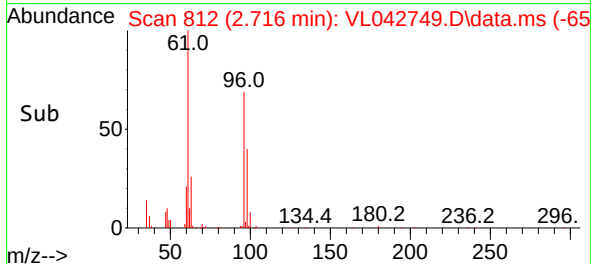
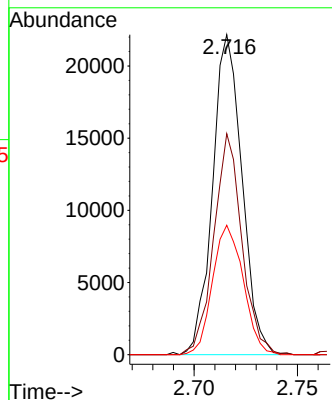
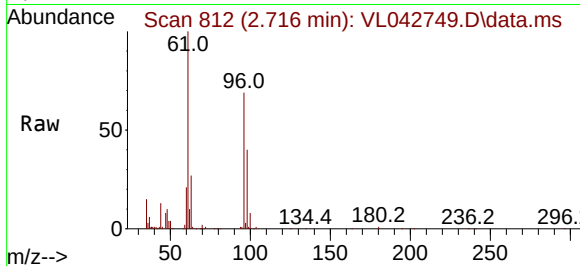




#31
 cis-1,2-Dichloroethene
 Concen: 1.021 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

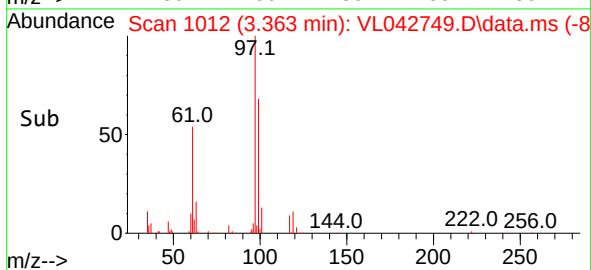
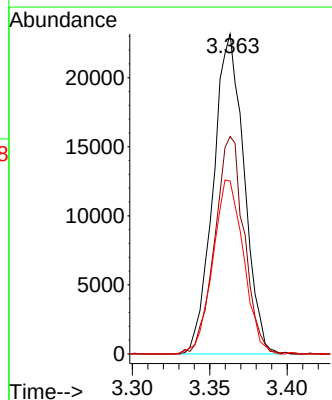
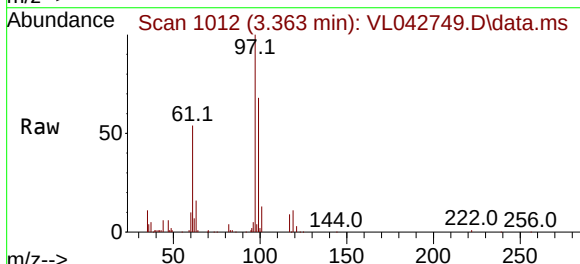
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

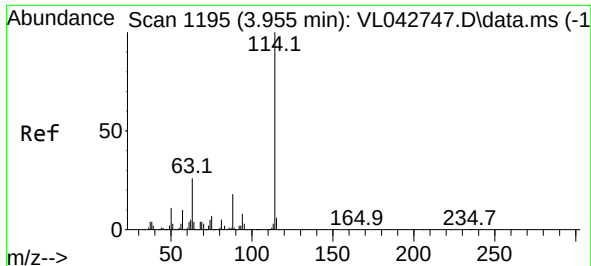
Tgt Ion: 61 Resp: 21979
 Ion Ratio Lower Upper
 61 100
 96 69.0 53.5 80.3
 98 40.5 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 0.949 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 97 Resp: 32003
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.0 76.6
 61 54.5 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

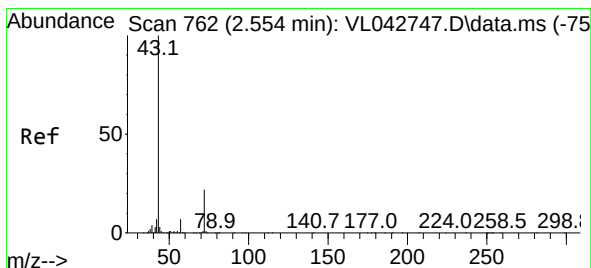
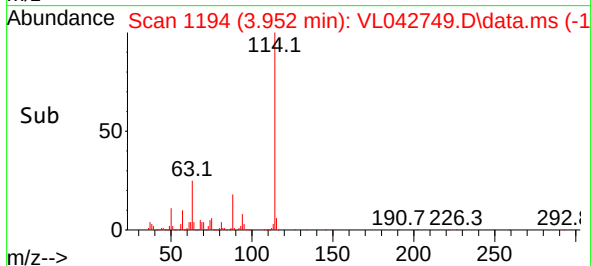
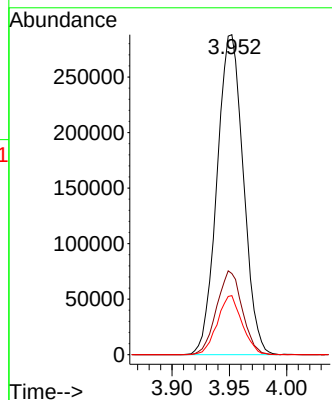
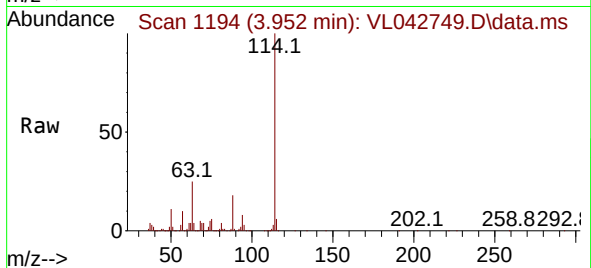
Tgt Ion:114 Resp: 459770

Ion Ratio Lower Upper

114 100

63 25.5 20.5 30.7

88 17.4 14.0 21.0



#34

2-Butanone

Concen: 1.007 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.000 min

Lab File: VL042749.D

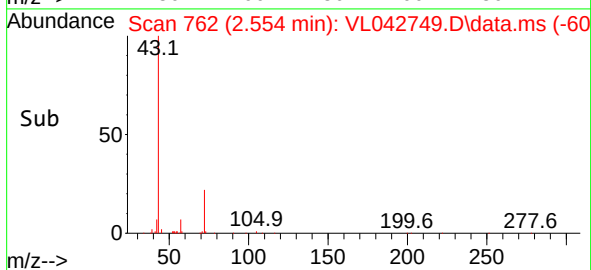
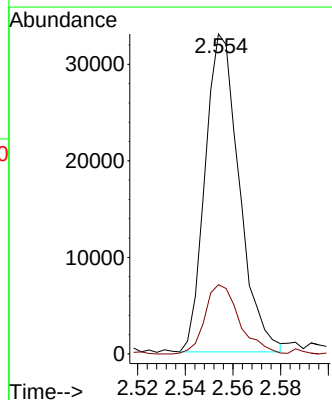
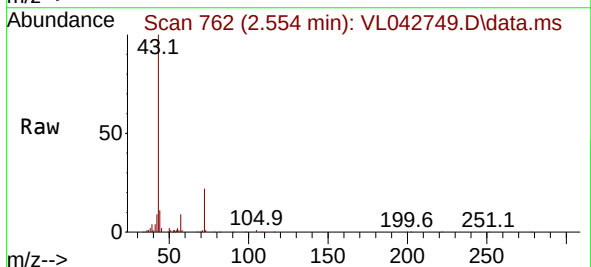
Acq: 23 Jul 2025 10:08

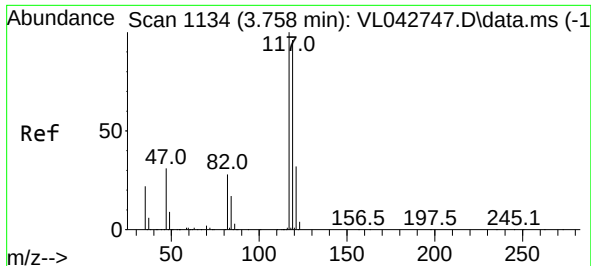
Tgt Ion: 43 Resp: 32783

Ion Ratio Lower Upper

43 100

72 22.7 17.4 26.0

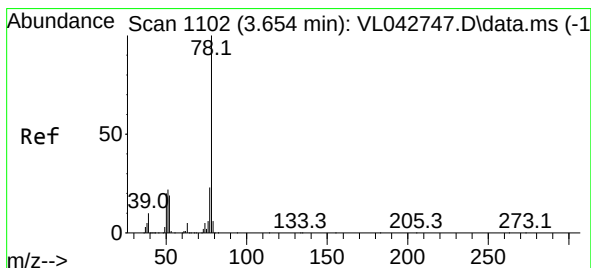
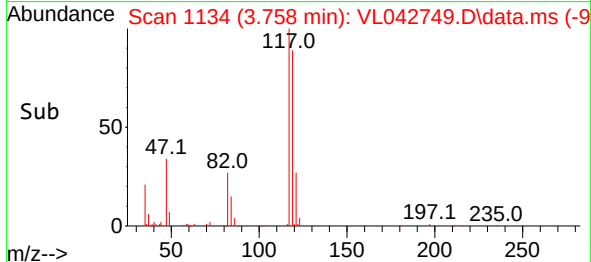
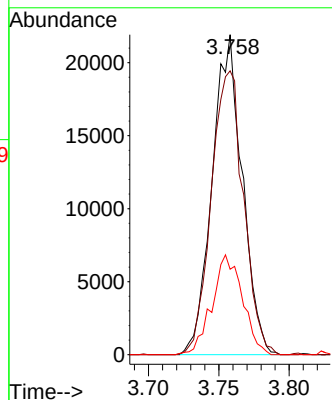
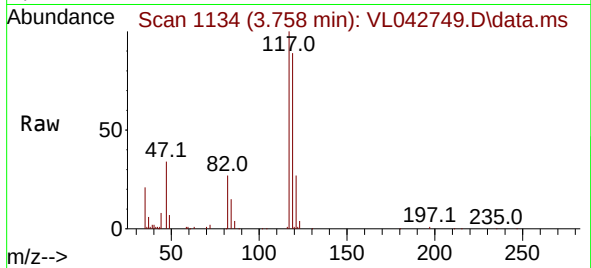




#35
Carbon Tetrachloride
Concen: 0.954 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

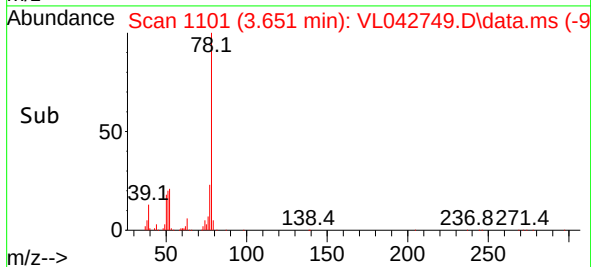
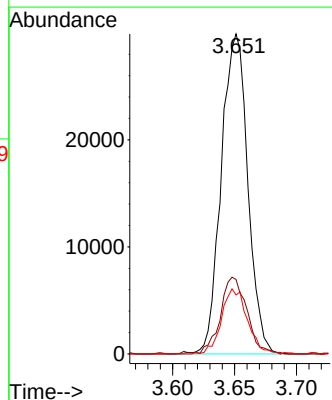
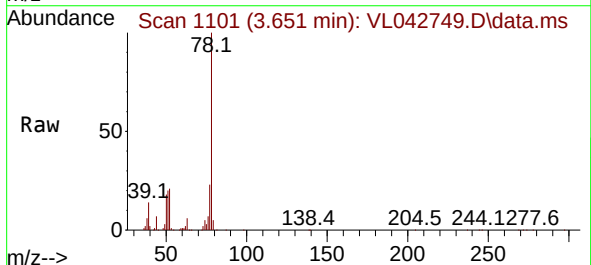
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

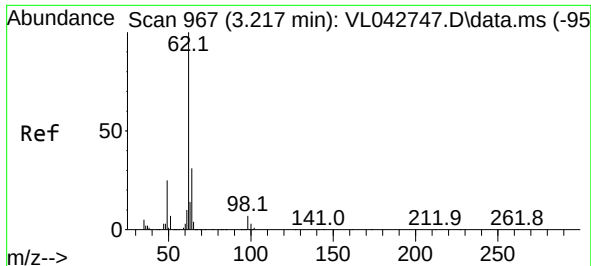
Tgt Ion:117 Resp: 32610
Ion Ratio Lower Upper
117 100
119 88.7 77.1 115.7
121 26.7 25.5 38.3



#36
Benzene
Concen: 1.024 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 78 Resp: 44638
Ion Ratio Lower Upper
78 100
77 23.1 18.5 27.7
50 18.4 16.2 24.2





#37

1,2-Dichloroethane

Concen: 1.025 ppbv

RT: 3.211 min Scan# 9

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

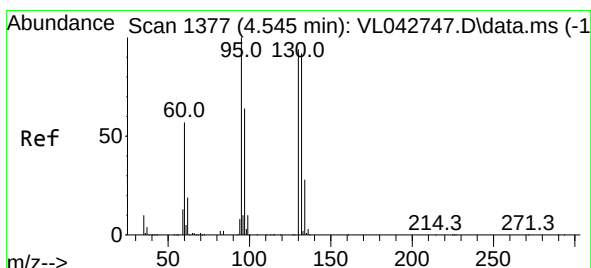
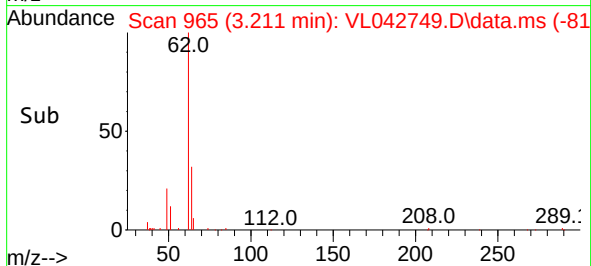
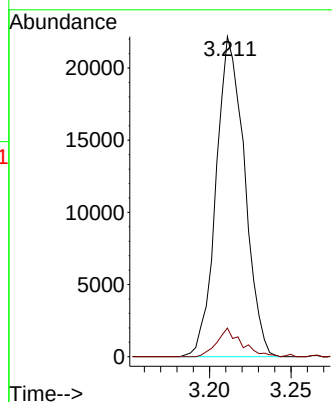
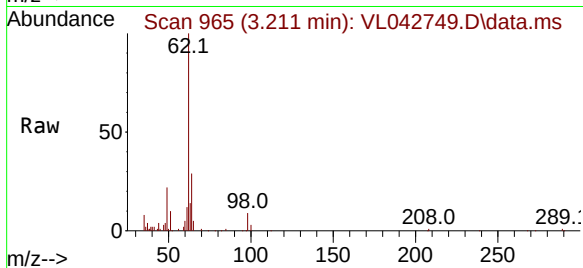
VSTDIC001

Tgt Ion: 62 Resp: 26909

Ion Ratio Lower Upper

62 100

98 8.0 5.2 7.8#



#38

Trichloroethene

Concen: 1.005 ppbv

RT: 4.538 min Scan# 1375

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Tgt Ion:130 Resp: 21122

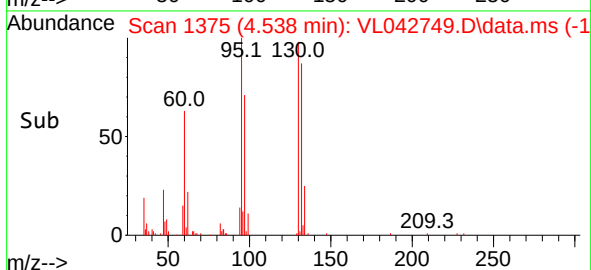
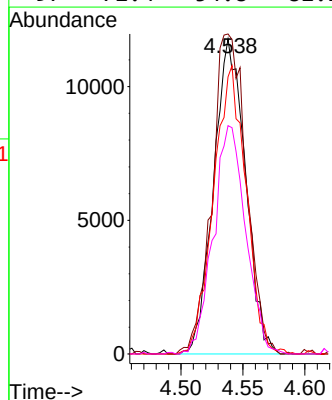
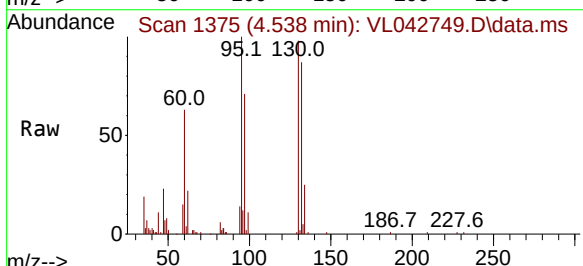
Ion Ratio Lower Upper

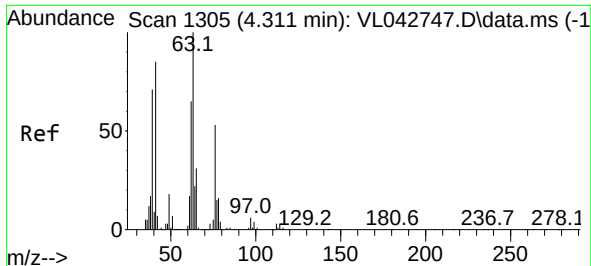
130 100

95 101.6 85.4 128.2

132 87.5 78.2 117.2

97 72.4 54.8 82.2





#39

1,2-Dichloropropane

Concen: 1.033 ppbv

RT: 4.305 min Scan# 11

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

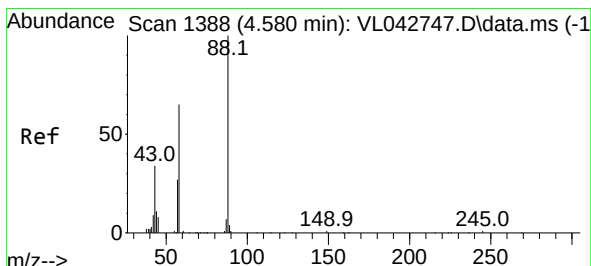
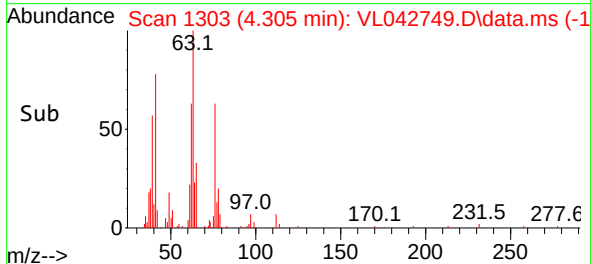
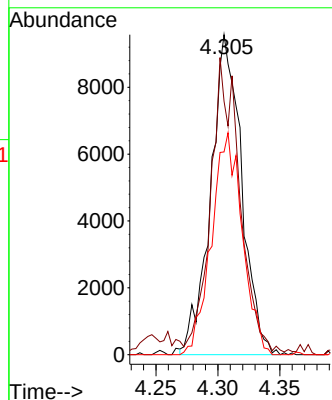
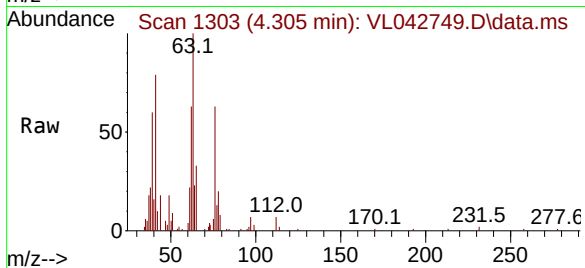
Tgt Ion: 63 Resp: 16622

Ion Ratio Lower Upper

63 100

41 77.8 68.2 102.4

62 63.3 52.0 78.0



#40

1,4-Dioxane

Concen: 0.552 ppbv

RT: 4.587 min Scan# 1390

Delta R.T. 0.006 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Tgt Ion: 88 Resp: 4184

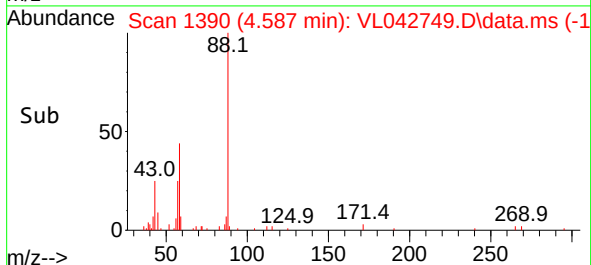
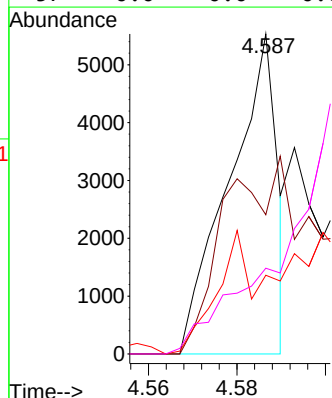
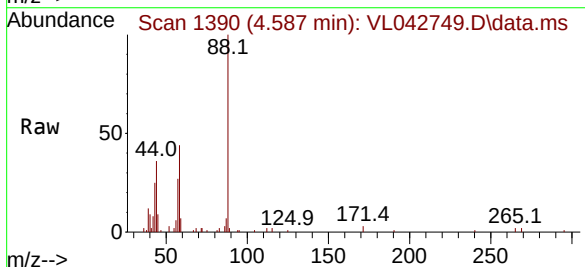
Ion Ratio Lower Upper

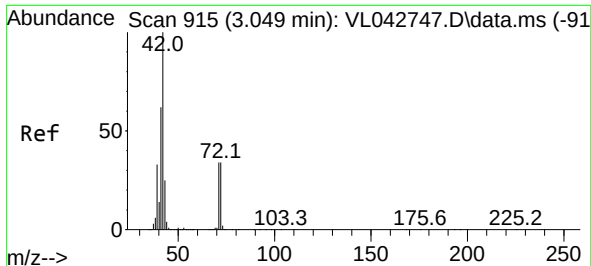
88 100

58 0.0 58.8 88.2#

43 0.0 28.9 43.3#

57 0.0 0.0 0.0

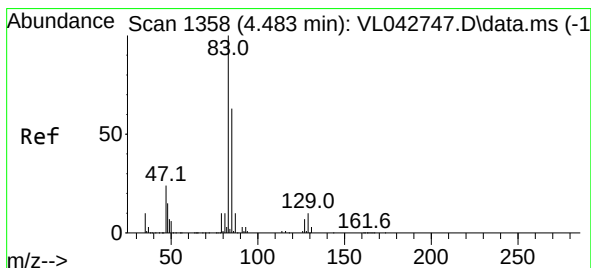
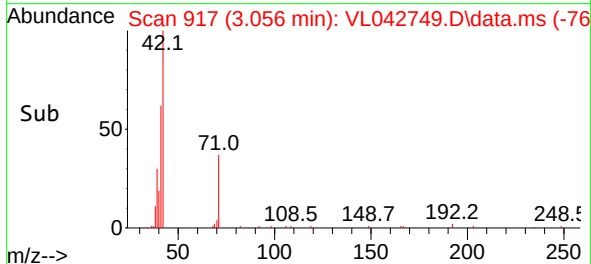
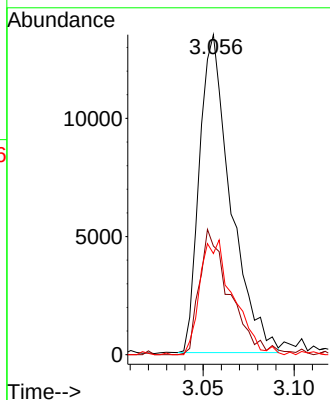
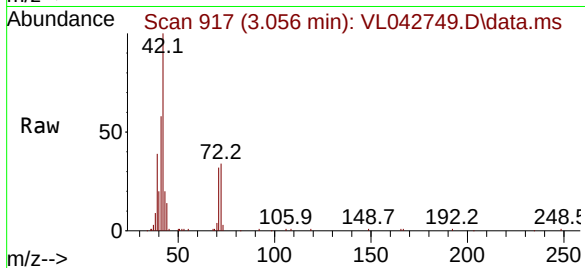




#41
Tetrahydrofuran
Concen: 0.984 ppbv
RT: 3.056 min Scan# 915
Delta R.T. 0.006 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

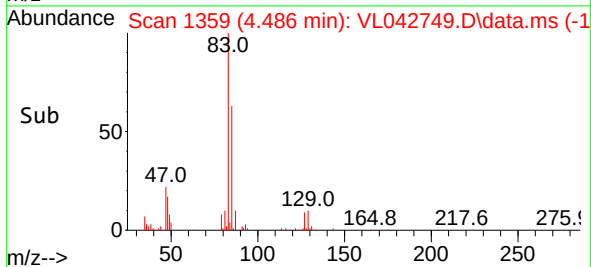
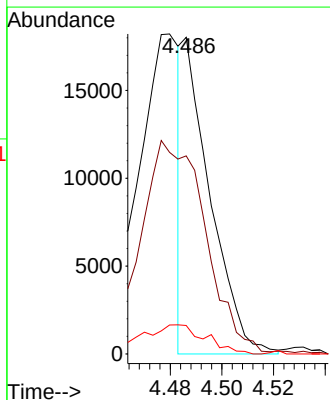
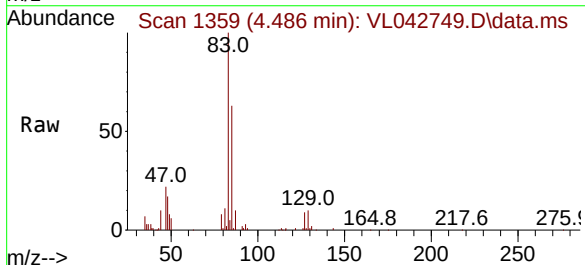
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

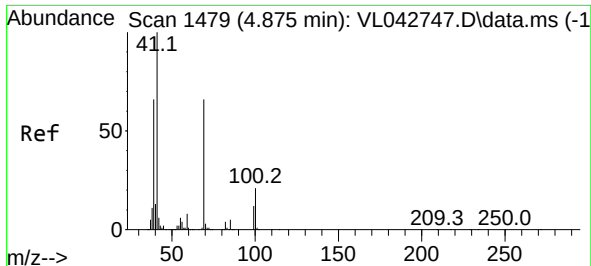
Tgt Ion:	42	Resp:	16097
Ion	Ratio	Lower	Upper
42	100		
72	39.1	30.9	46.3
71	38.6	28.6	43.0



#42
Bromodichloromethane
Concen: 0.388 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:	83	Resp:	13285
Ion	Ratio	Lower	Upper
83	100		
85	62.4	50.2	75.4
127	8.0	5.4	8.2

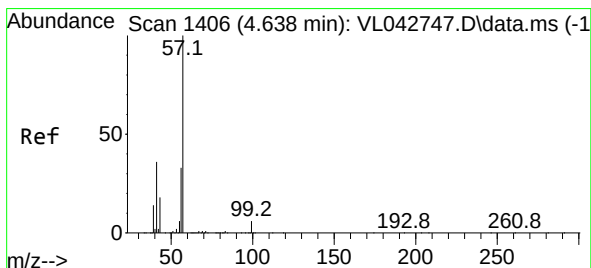
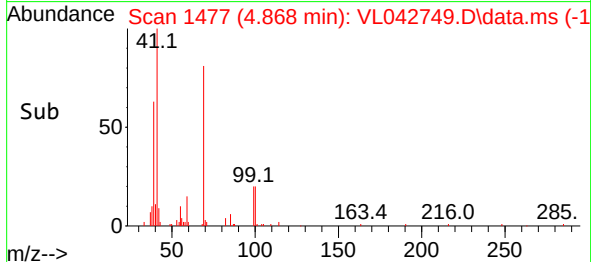
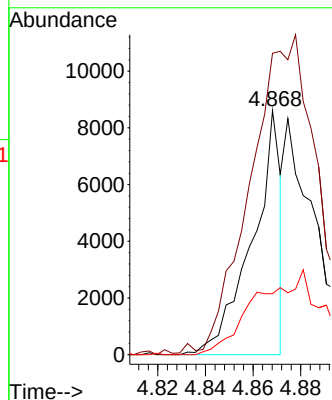
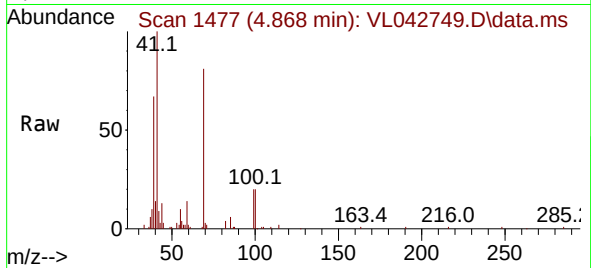




#43
Methyl Methacrylate
Concen: 0.461 ppbv
RT: 4.868 min Scan# 1477
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

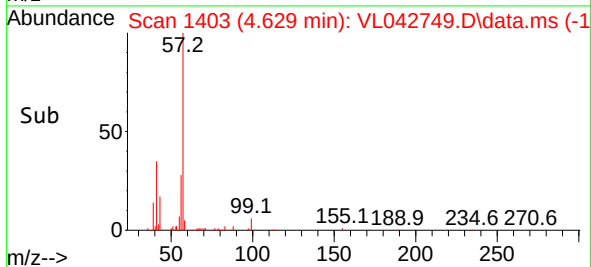
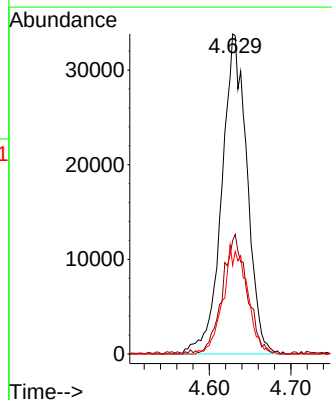
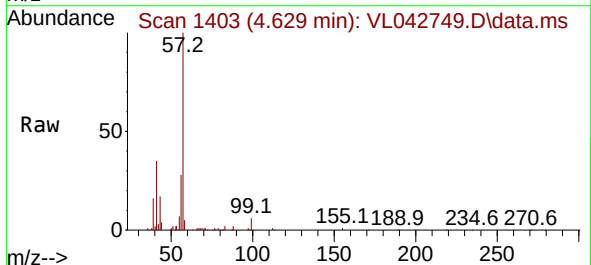
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

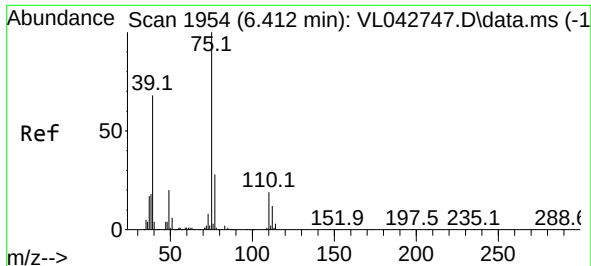
Tgt Ion: 69 Resp: 7135
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5#
100 0.0 28.6 42.8#



#44
2,2,4-Trimethylpentane
Concen: 1.026 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 57 Resp: 72865
Ion Ratio Lower Upper
57 100
41 36.4 28.3 42.5
56 32.5 25.8 38.6

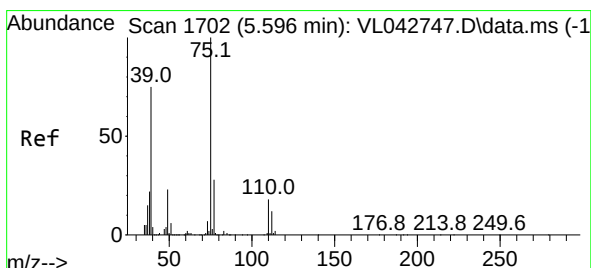
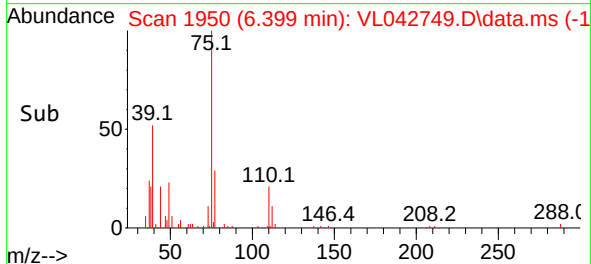
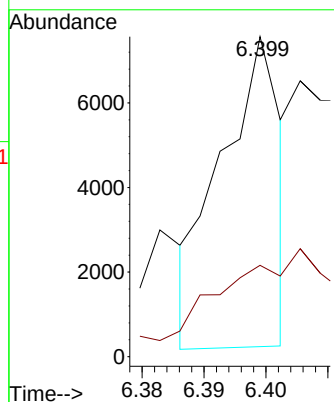
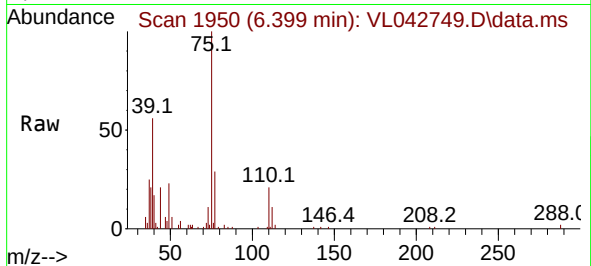




#45
t-1,3-Dichloropropene
Concen: 0.284 ppbv
RT: 6.399 min Scan# 1950
Delta R.T. -0.013 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

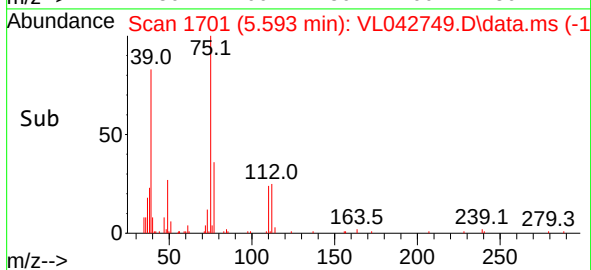
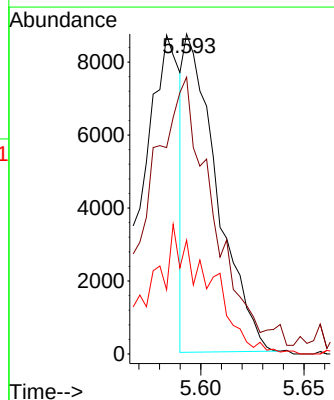
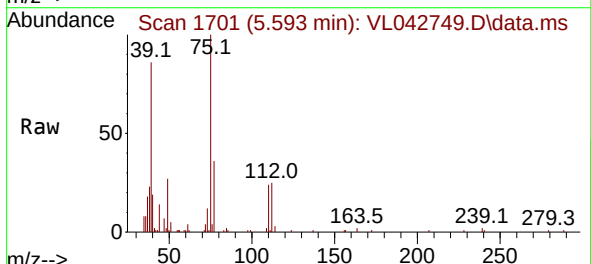
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

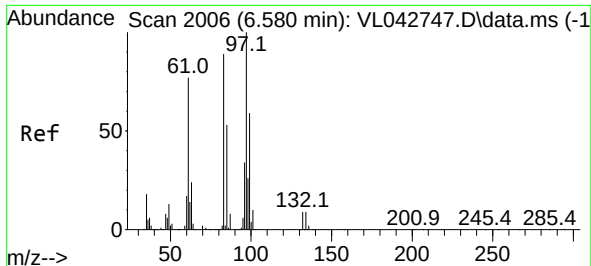
Tgt Ion: 75 Resp: 4937
Ion Ratio Lower Upper
75 100
77 28.5 22.4 33.6



#46
cis-1,3-Dichloropropene
Concen: 0.439 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 75 Resp: 9670
Ion Ratio Lower Upper
75 100
39 78.0 60.2 90.2
77 35.3 22.6 34.0#

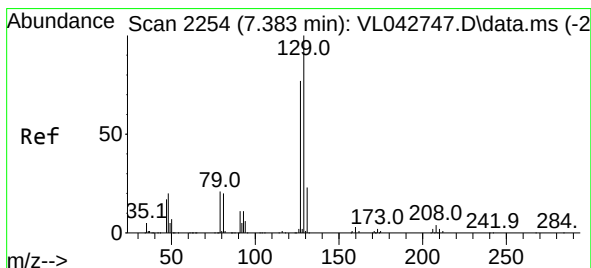
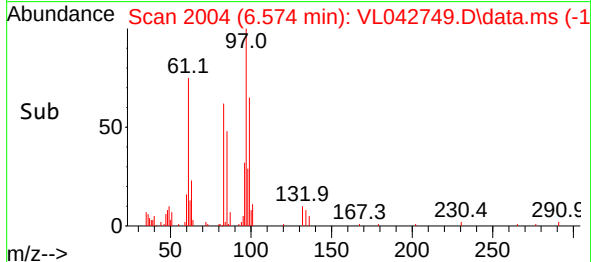
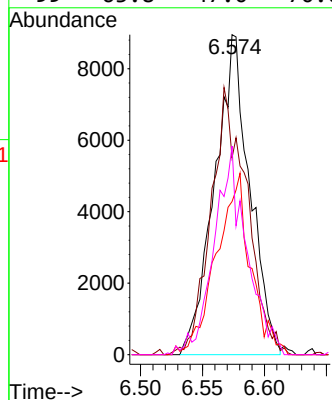
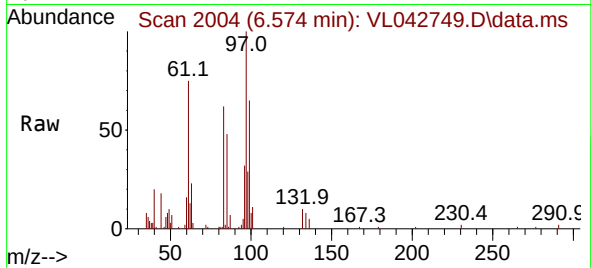




#47
1,1,2-Trichloroethane
Concen: 1.029 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

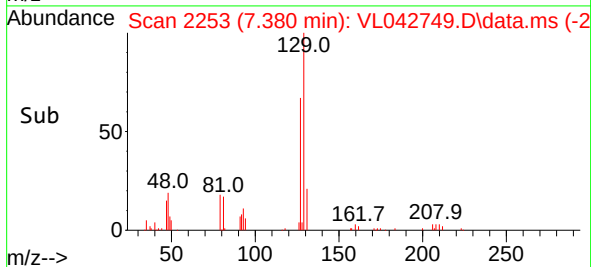
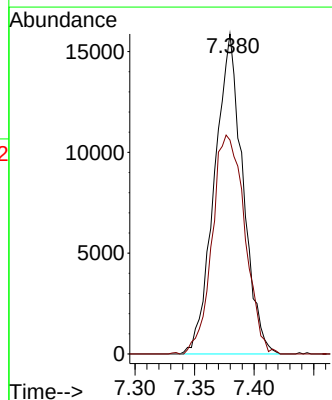
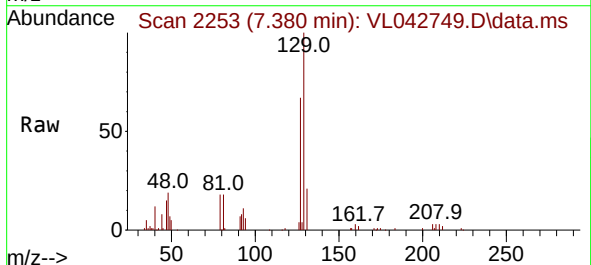
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

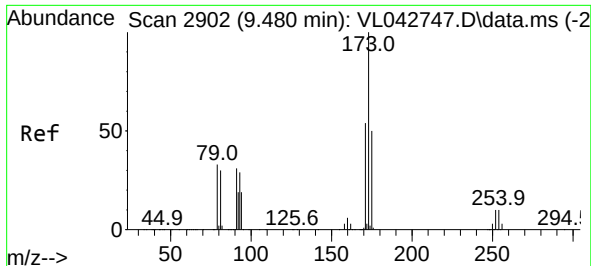
Tgt Ion: 97 Resp: 17646
Ion Ratio Lower Upper
97 100
83 60.2 71.1 106.7#
85 46.8 43.0 64.4
99 63.8 47.0 70.6



#48
Dibromochloromethane
Concen: 0.965 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 129 Resp: 26259
Ion Ratio Lower Upper
129 100
127 78.7 38.7 116.1

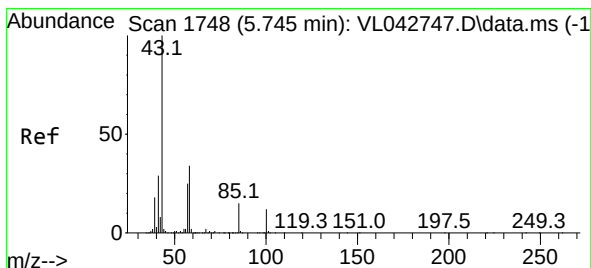
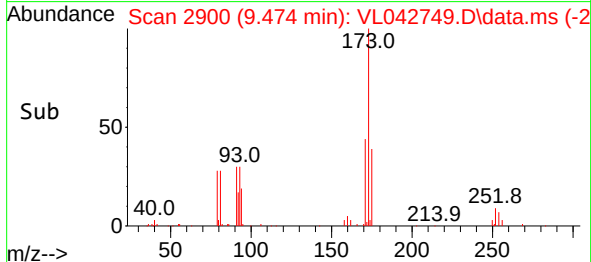
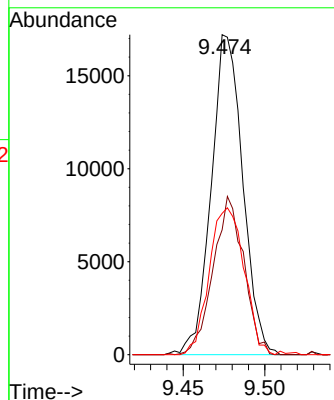
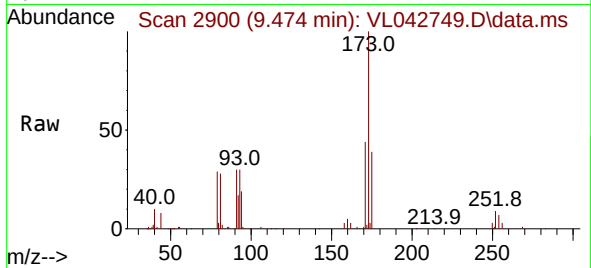




#49
Bromoform
Concen: 0.973 ppbv
RT: 9.474 min Scan# 2900
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

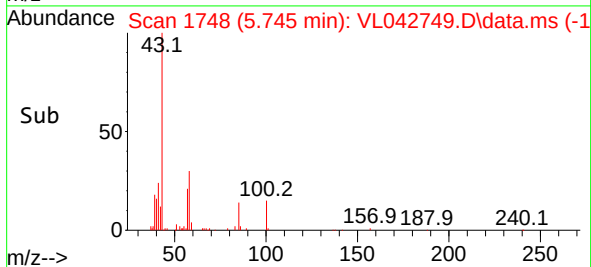
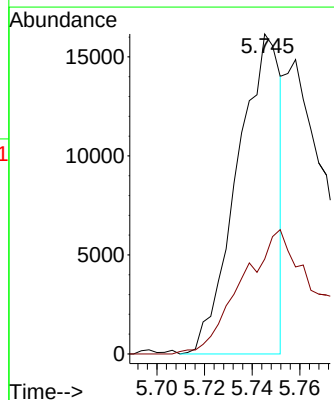
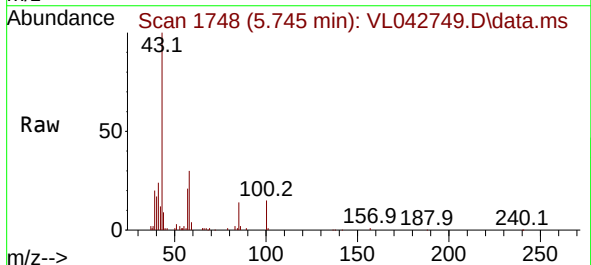
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

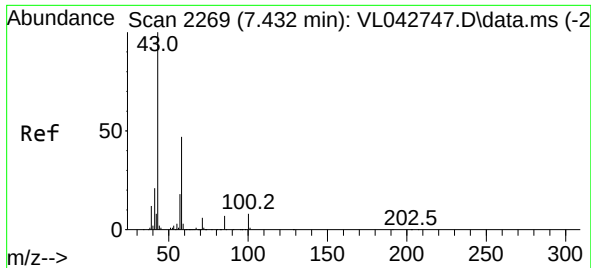
Tgt Ion:173 Resp: 23083
Ion Ratio Lower Upper
173 100
175 48.0 38.4 57.6
171 51.3 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 0.488 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 43 Resp: 20247
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#

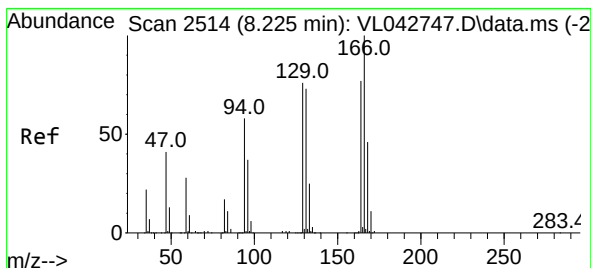
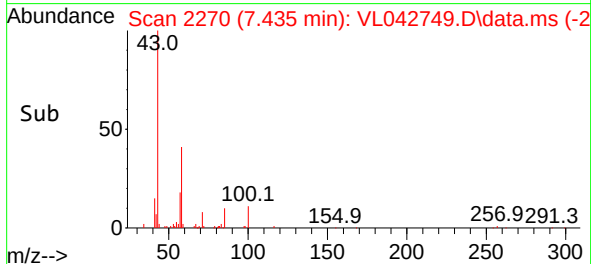
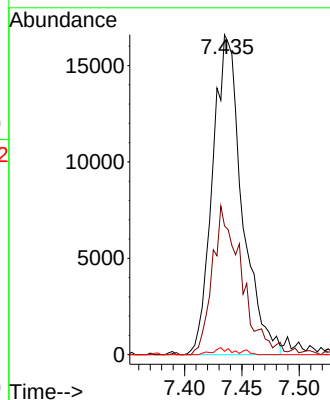
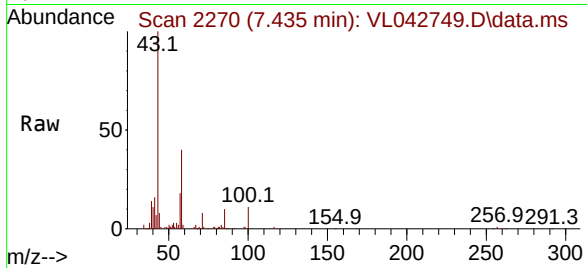




#51
2-Hexanone
Concen: 0.939 ppbv
RT: 7.435 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

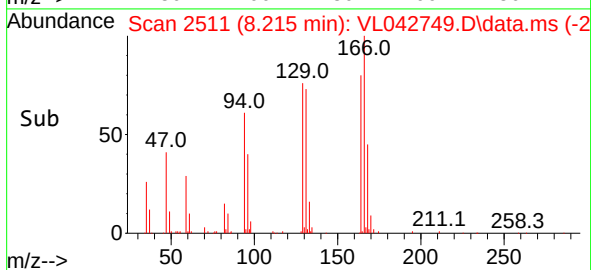
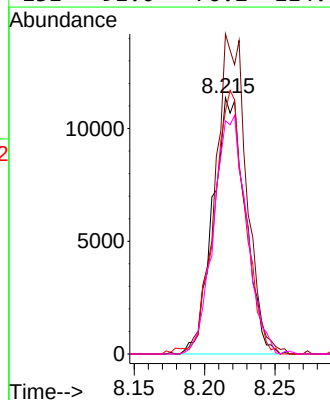
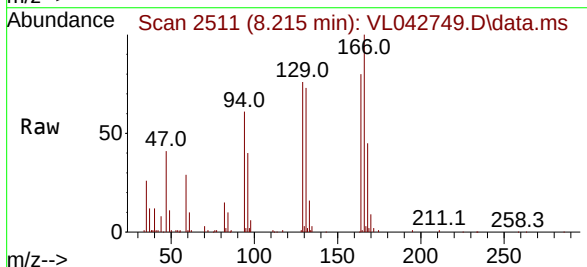
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

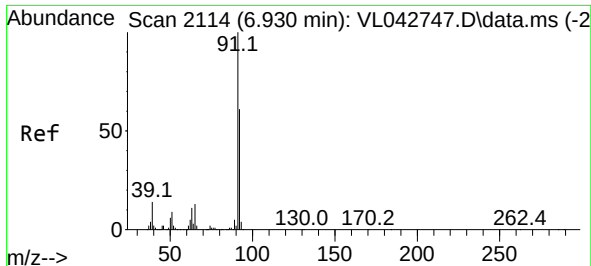
Tgt Ion: 43 Resp: 29761
Ion Ratio Lower Upper
43 100
58 47.5 38.0 57.0
98 1.6 0.2 0.4#



#52
Tetrachloroethene
Concen: 1.001 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 164 Resp: 18131
Ion Ratio Lower Upper
164 100
166 124.9 104.0 156.0
129 94.8 79.2 118.8
131 91.0 76.2 114.4

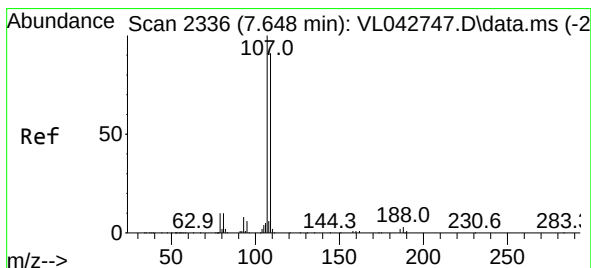
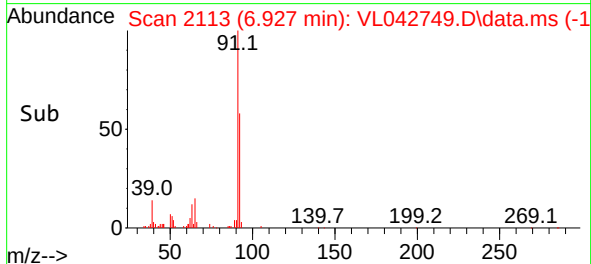
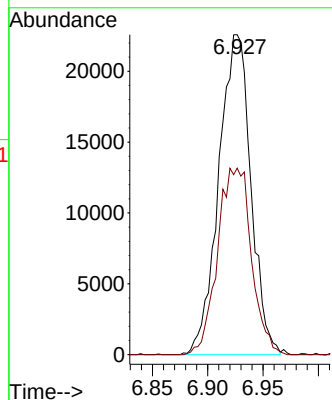
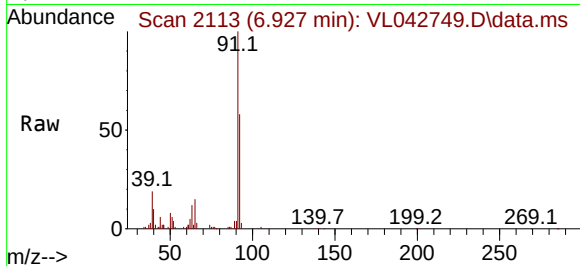




#53
Toluene
Concen: 0.976 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

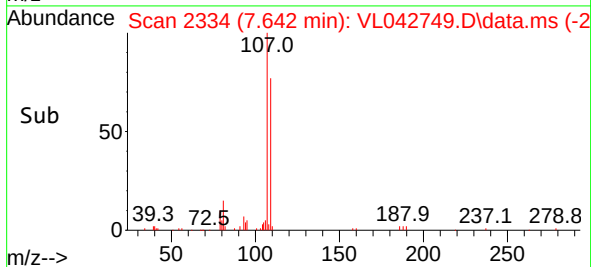
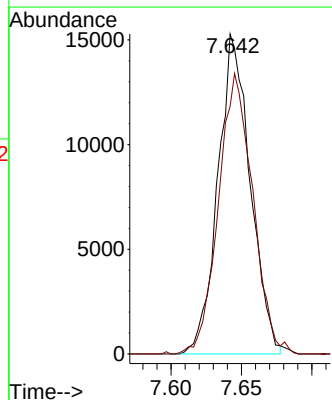
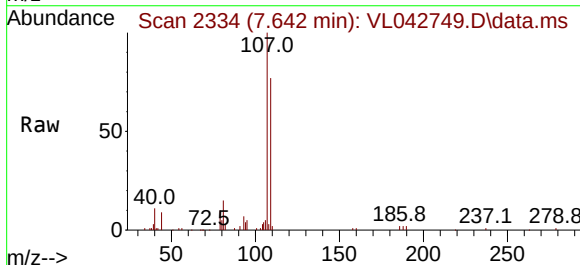
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

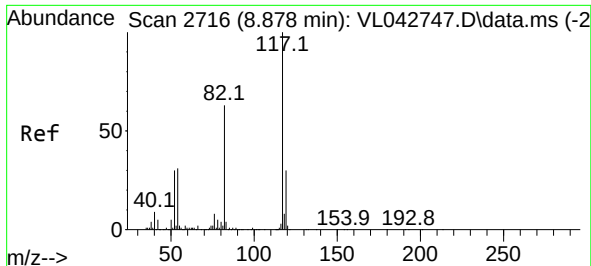
Tgt Ion: 91 Resp: 45645
Ion Ratio Lower Upper
91 100
92 61.5 48.0 72.0



#54
1,2-Dibromoethane
Concen: 1.007 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 107 Resp: 24427
Ion Ratio Lower Upper
107 100
109 76.9 72.7 109.1

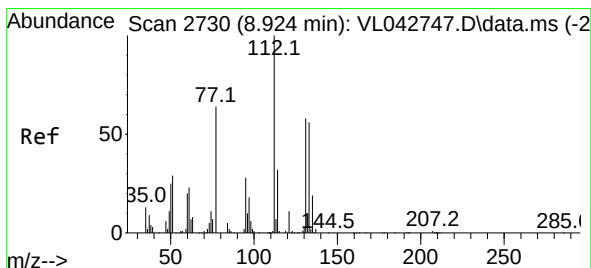
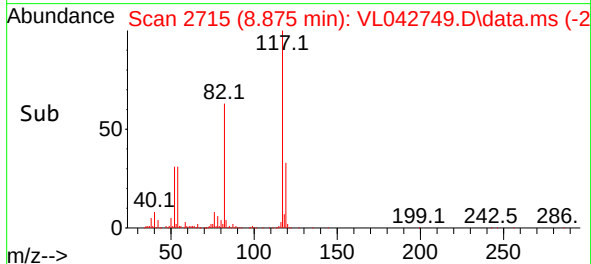
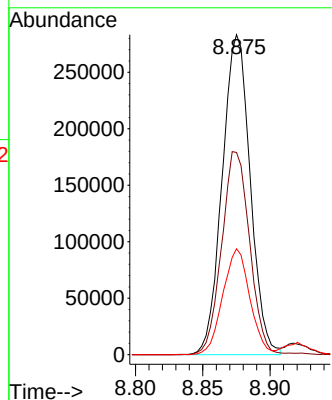
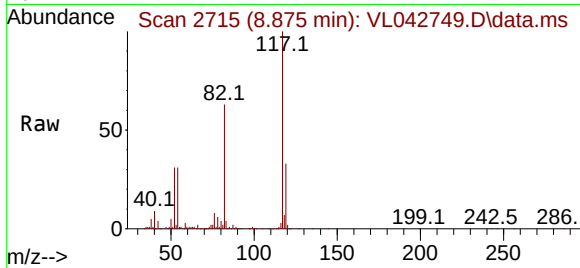




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

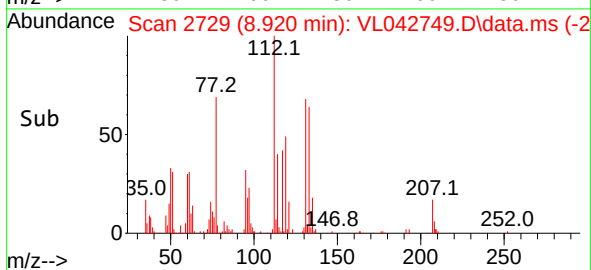
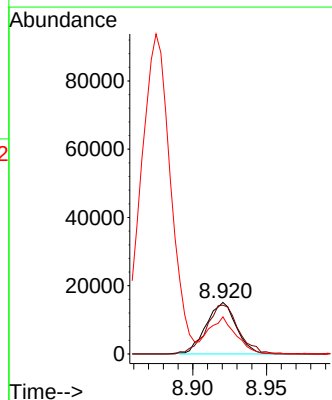
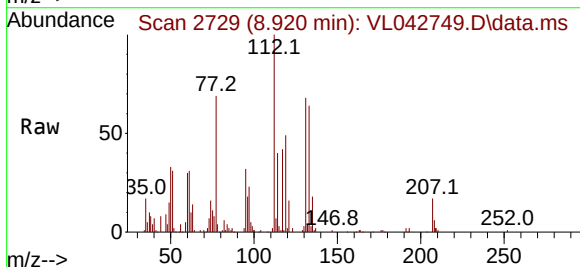
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

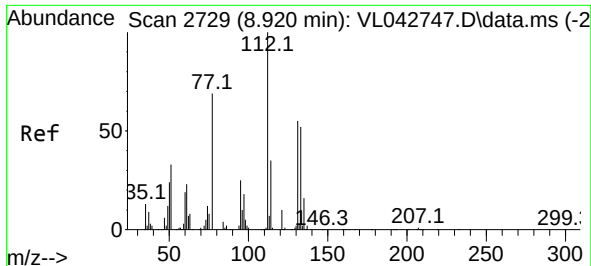
Tgt Ion:117 Resp: 410018
Ion Ratio Lower Upper
117 100
82 63.5 53.3 79.9
119 32.0 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 1.000 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:131 Resp: 21319
Ion Ratio Lower Upper
131 100
133 102.0 76.8 115.2
119 58.6 49.7 74.5

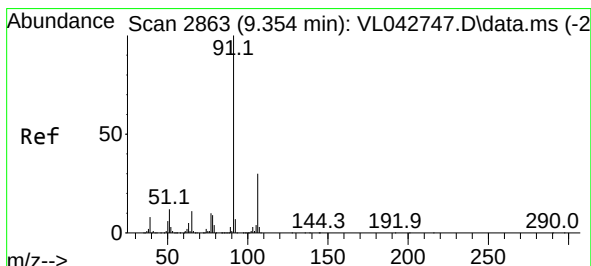
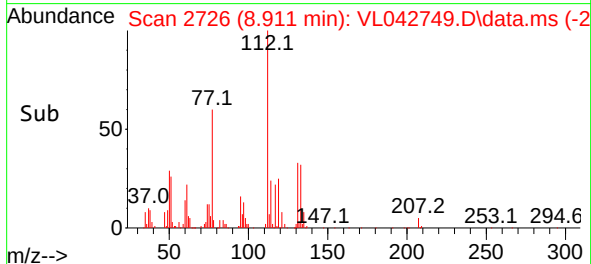
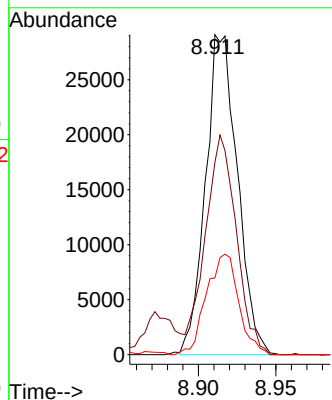
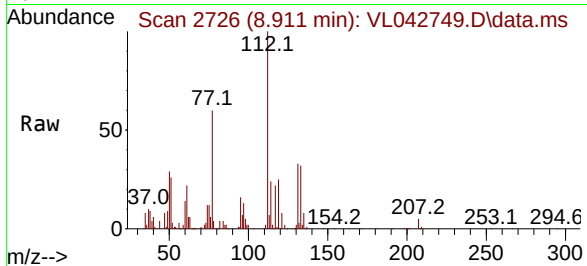




#57
Chlorobenzene
Concen: 1.053 ppbv
RT: 8.911 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

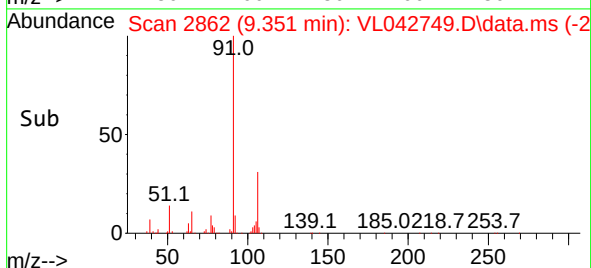
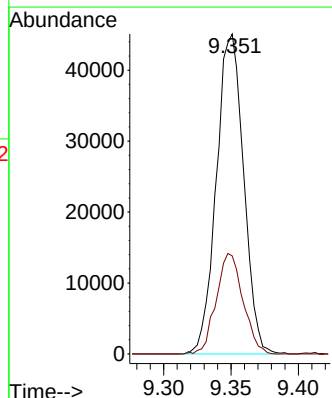
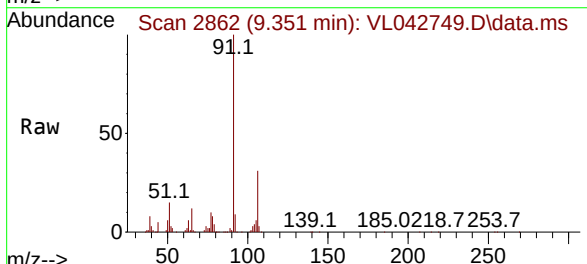
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC001

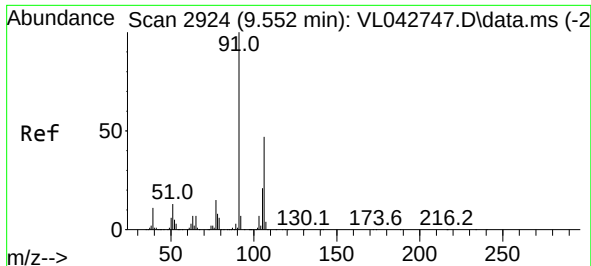
Tgt Ion:112 Resp: 41788
Ion Ratio Lower Upper
112 100
77 60.1 56.4 84.6
114 24.0 31.2 38.2#



#58
Ethyl Benzene
Concen: 0.980 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 63467
Ion Ratio Lower Upper
91 100
106 30.6 23.8 35.6





#59

m/p-Xylene

Concen: 0.849 ppbv

RT: 9.545 min Scan# 2924

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

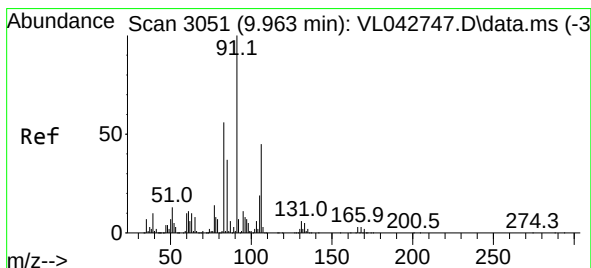
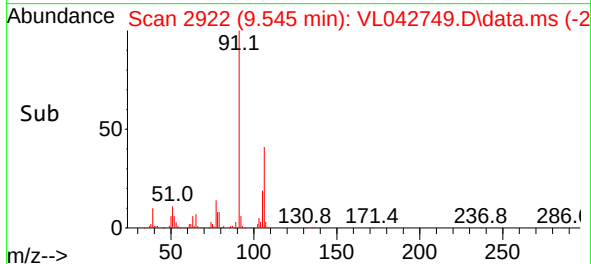
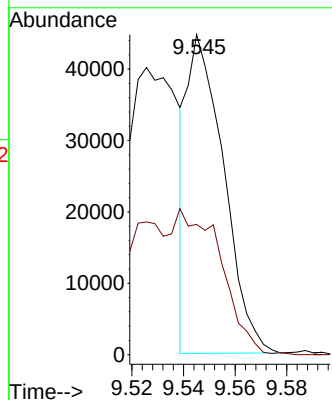
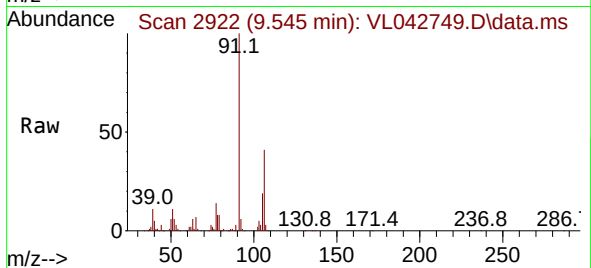
VSTDIC001

Tgt Ion: 91 Resp: 43966

Ion Ratio Lower Upper

91 100

106 111.6 37.4 56.2#



#60

o-Xylene

Concen: 1.015 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042749.D

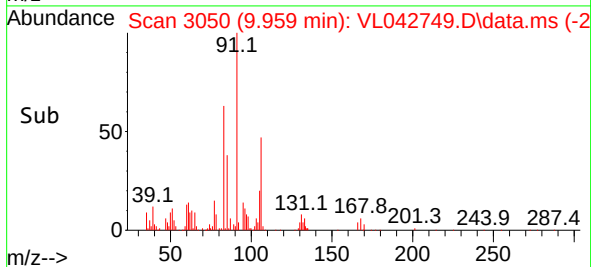
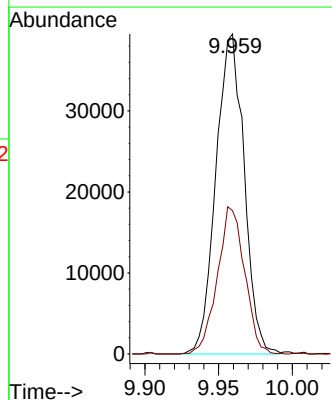
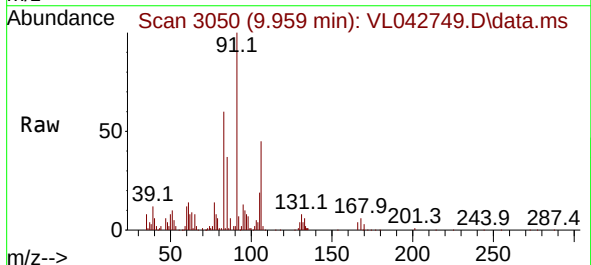
Acq: 23 Jul 2025 10:08

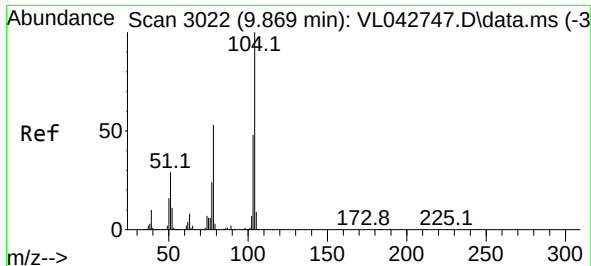
Tgt Ion: 91 Resp: 52499

Ion Ratio Lower Upper

91 100

106 44.6 22.0 66.0

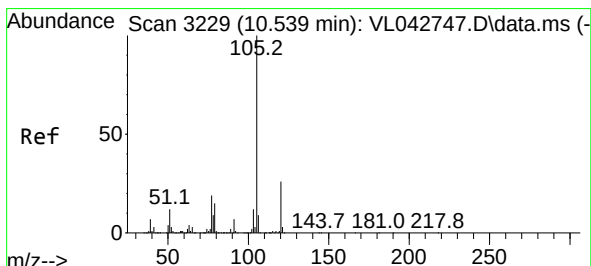
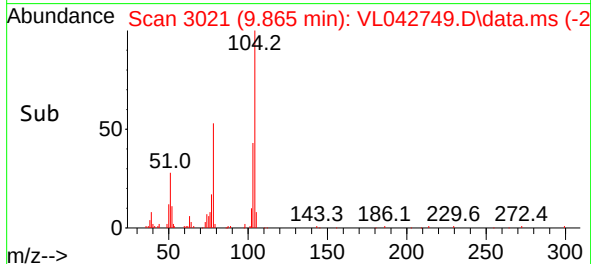
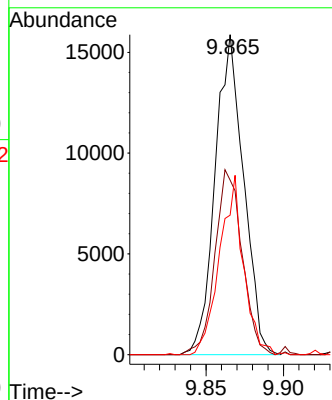
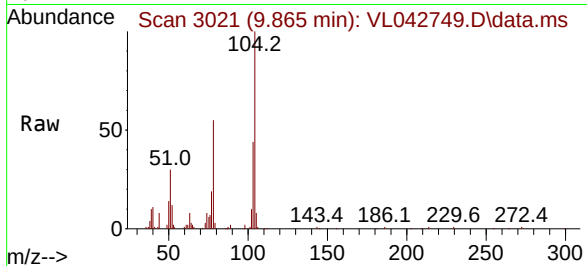




#61
Styrene
Concen: 0.934 ppbv
RT: 9.865 min Scan# 3022
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

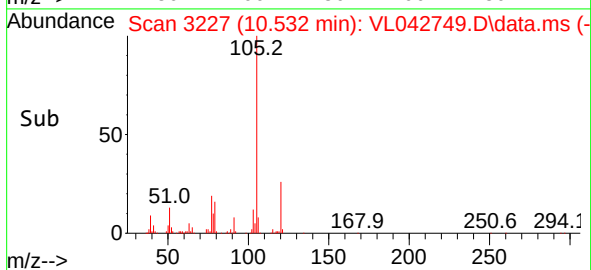
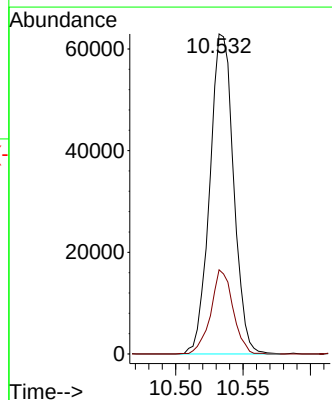
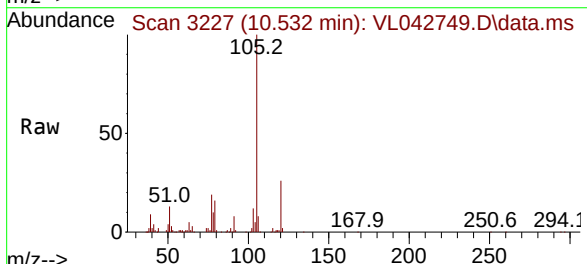
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

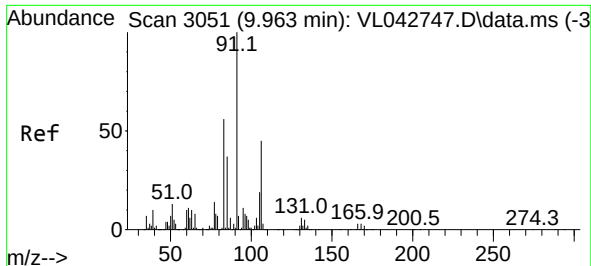
Tgt Ion:104 Resp: 20313
Ion Ratio Lower Upper
104 100
78 55.7 41.5 62.3
103 47.2 37.5 56.3



#62
Isopropylbenzene
Concen: 1.013 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 77278
Ion Ratio Lower Upper
105 100
120 24.6 20.5 30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 0.967 ppbv

RT: 9.956 min Scan# 3051

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

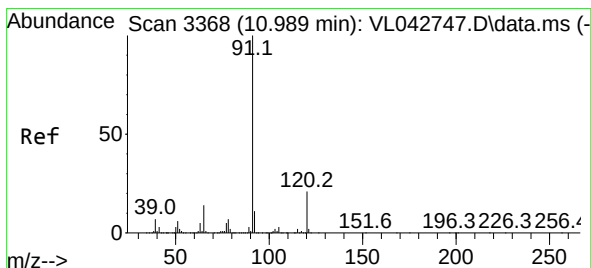
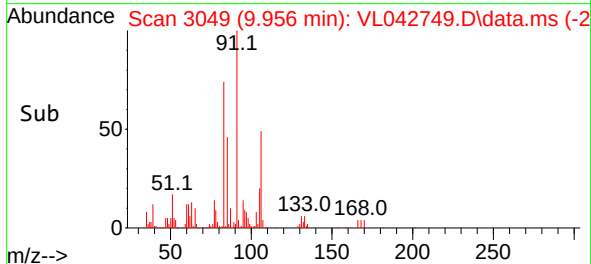
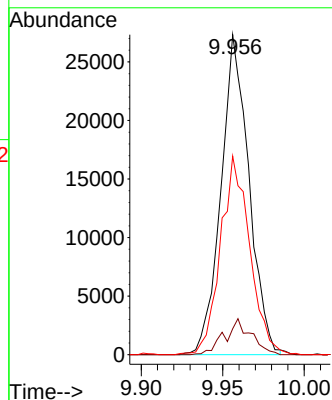
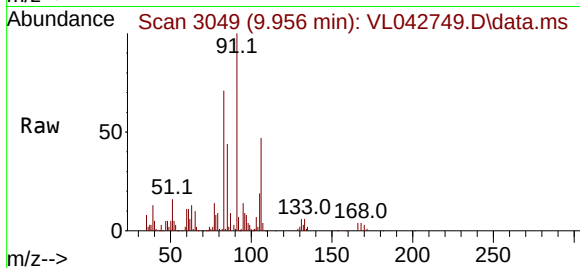
Tgt Ion: 83 Resp: 32591

Ion Ratio Lower Upper

83 100

131 10.6 5.0 15.0

85 65.1 32.6 97.7



#64

n-propylbenzene

Concen: 1.009 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.003 min

Lab File: VL042749.D

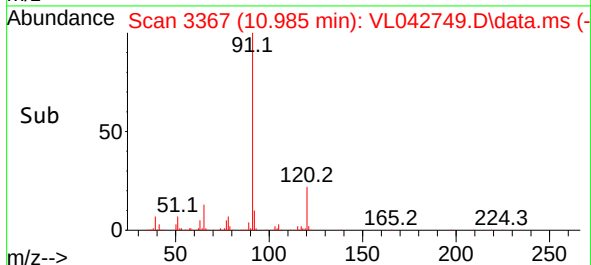
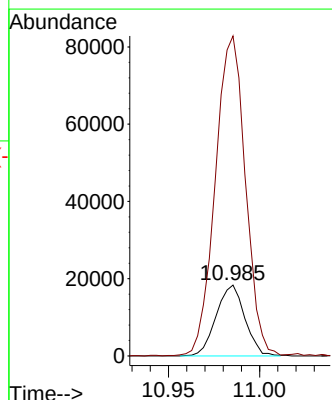
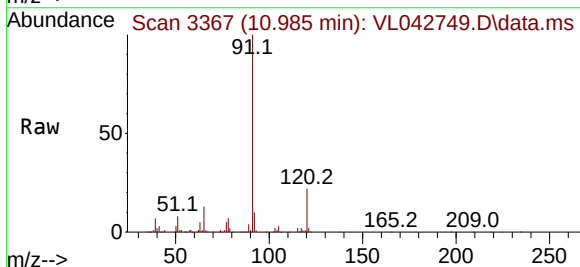
Acq: 23 Jul 2025 10:08

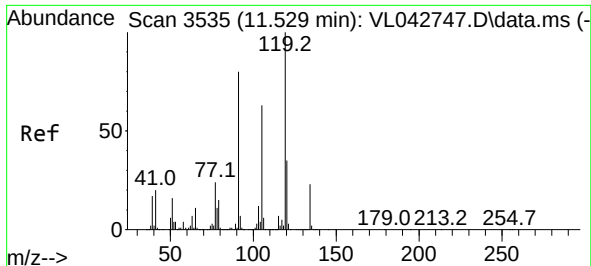
Tgt Ion: 120 Resp: 20073

Ion Ratio Lower Upper

120 100

91 478.1 372.7 559.1

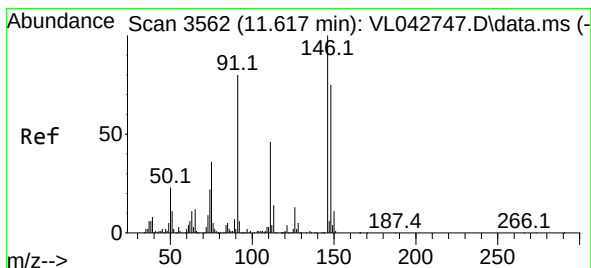
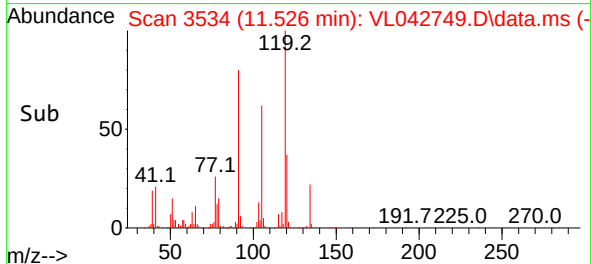
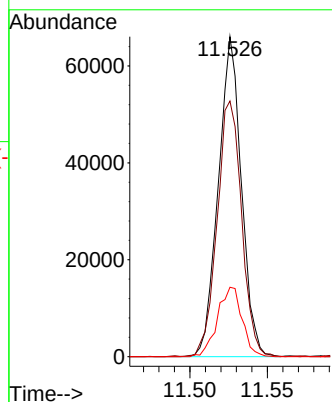
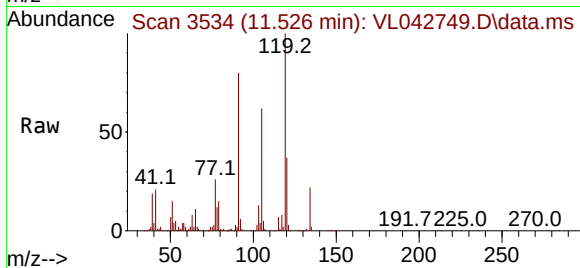




#65
tert-Butylbenzene
Concen: 1.010 ppbv
RT: 11.526 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

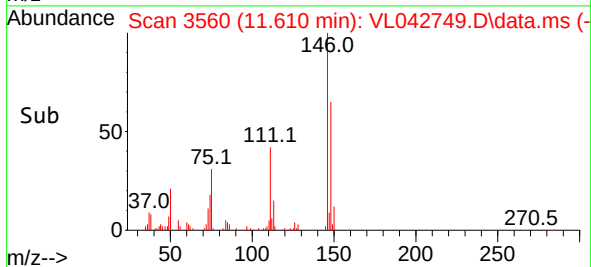
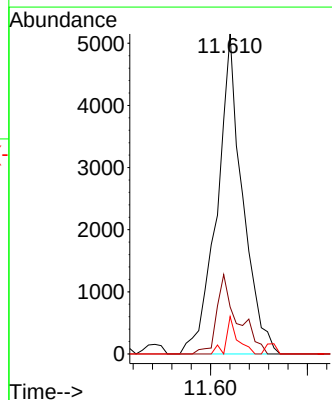
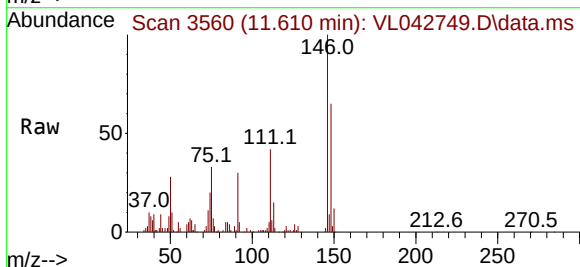
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

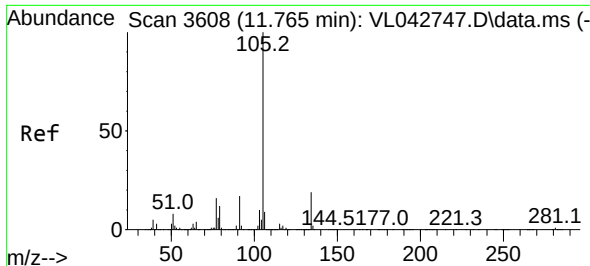
Tgt Ion:119 Resp: 68428
Ion Ratio Lower Upper
119 100
91 85.1 64.0 96.0
134 23.1 17.3 25.9



#66
Benzyl Chloride
Concen: 0.845 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.007 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 4700
Ion Ratio Lower Upper
91 100
126 20.3 14.4 21.6
128 6.5 5.2 7.8

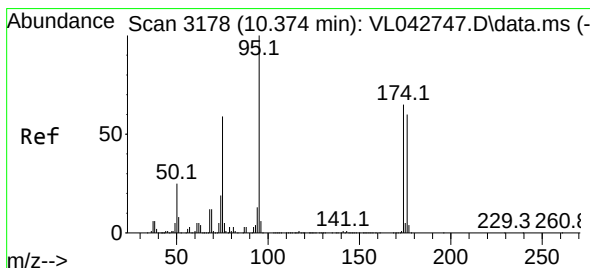
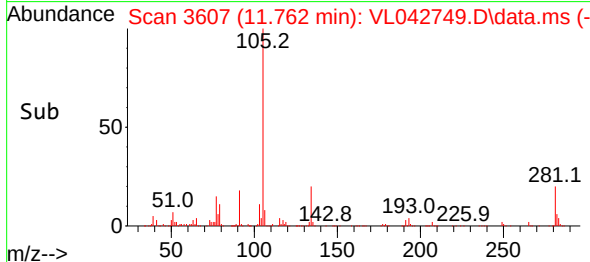
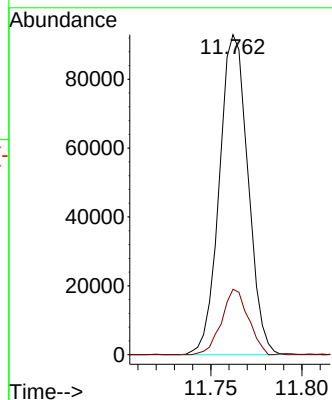
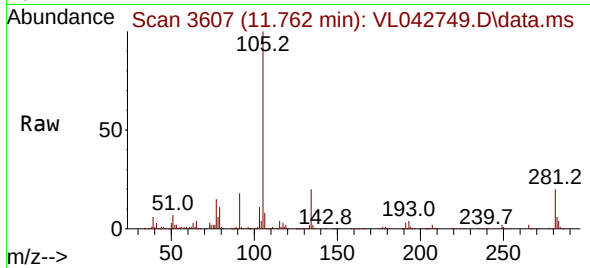




#67
 sec-Butylbenzene
 Concen: 1.053 ppbv
 RT: 11.762 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

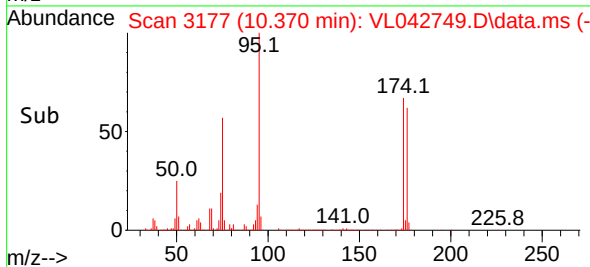
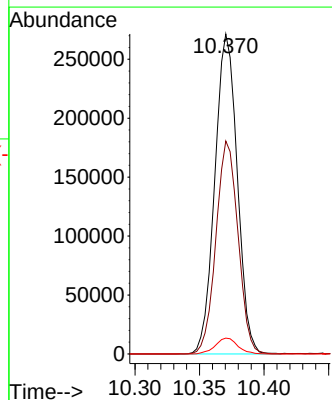
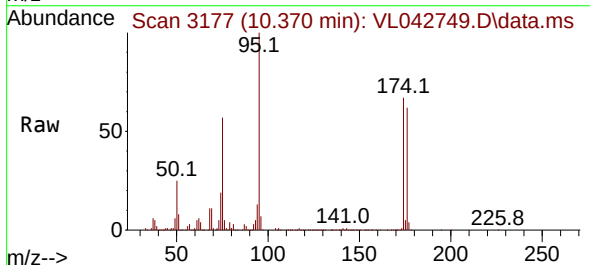
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

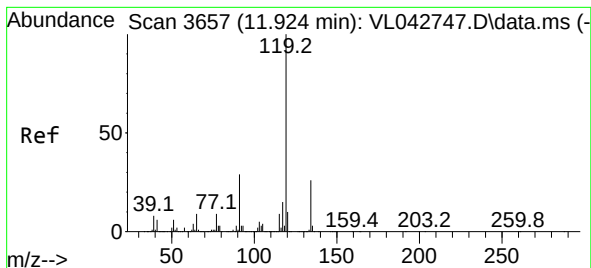
Tgt Ion:105 Resp: 101458
 Ion Ratio Lower Upper
 105 100
 134 19.1 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.091 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 95 Resp: 327673
 Ion Ratio Lower Upper
 95 100
 174 65.4 53.8 80.6
 175 5.0 4.0 6.0

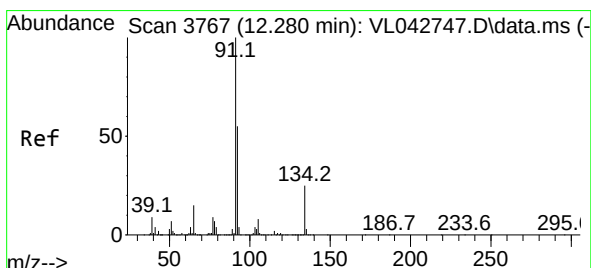
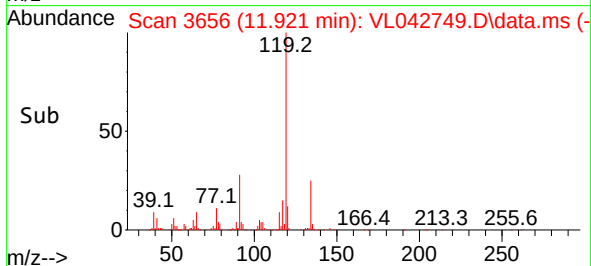
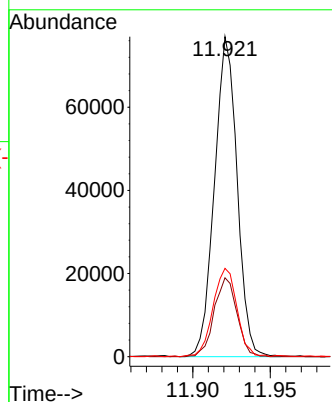
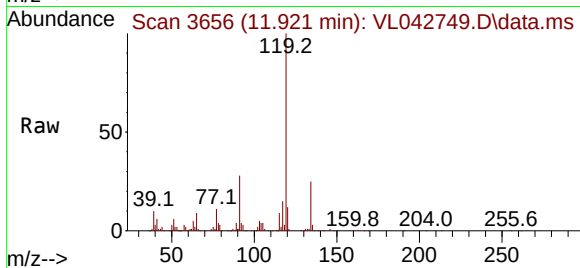




#69
 p-Isopropyltoluene
 Concen: 0.995 ppbv
 RT: 11.921 min Scan# 3656
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

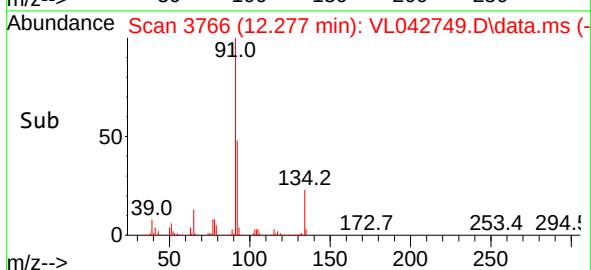
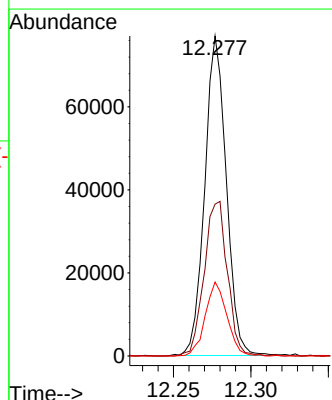
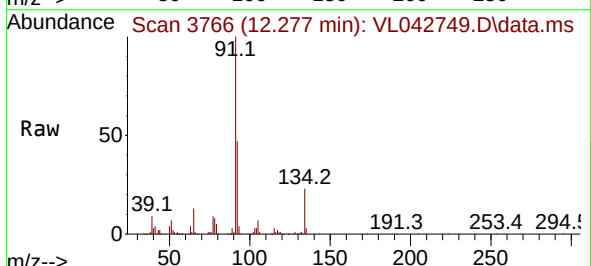
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

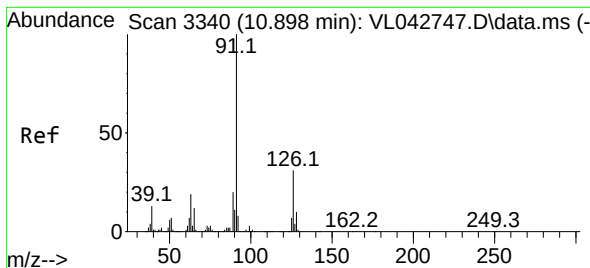
Tgt Ion:119 Resp: 78186
 Ion Ratio Lower Upper
 119 100
 134 24.8 20.6 31.0
 91 29.8 23.2 34.8



#70
 n-Butylbenzene
 Concen: 0.978 ppbv
 RT: 12.277 min Scan# 3766
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Tgt Ion: 91 Resp: 74257
 Ion Ratio Lower Upper
 91 100
 92 52.4 43.4 65.2
 134 23.4 19.6 29.4

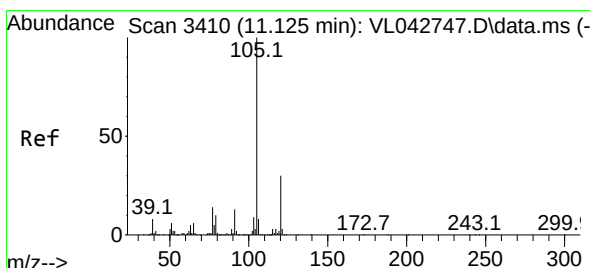
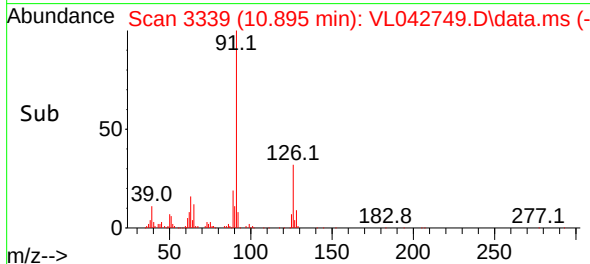
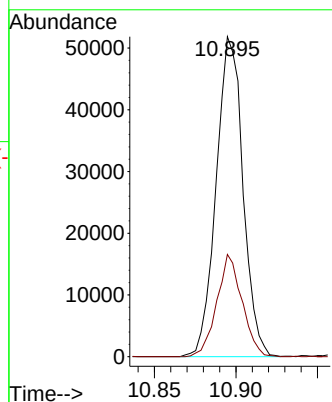
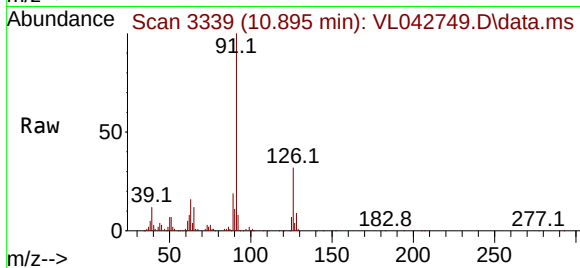




#71
2-Chlorotoluene
Concen: 1.012 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

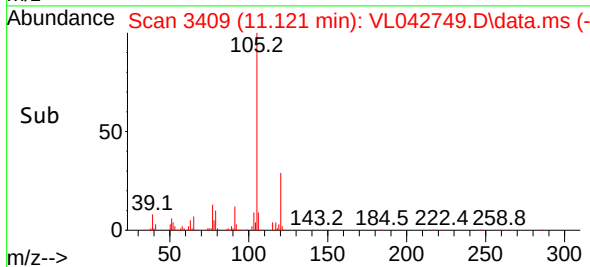
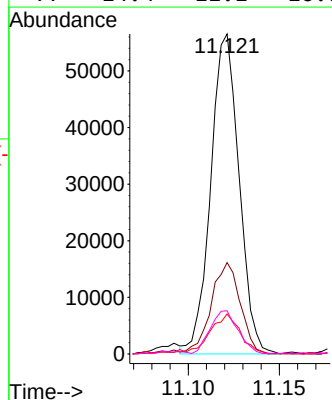
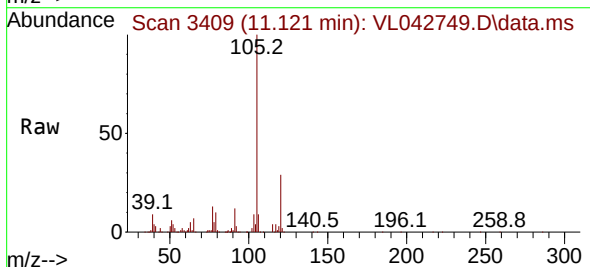
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

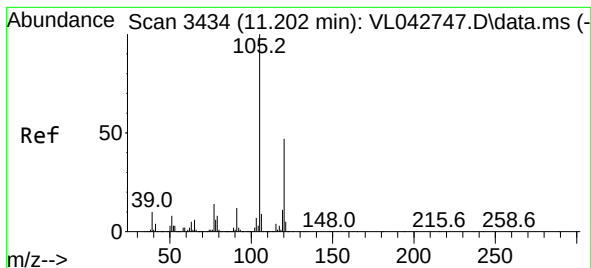
Tgt Ion: 91 Resp: 59193
Ion Ratio Lower Upper
91 100
126 30.1 12.0 48.2



#72
4-Ethyltoluene
Concen: 0.991 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 61199
Ion Ratio Lower Upper
105 100
120 30.2 24.4 36.6
91 14.2 10.6 15.8
77 14.4 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.962 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

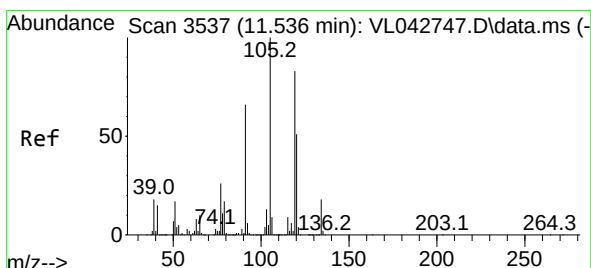
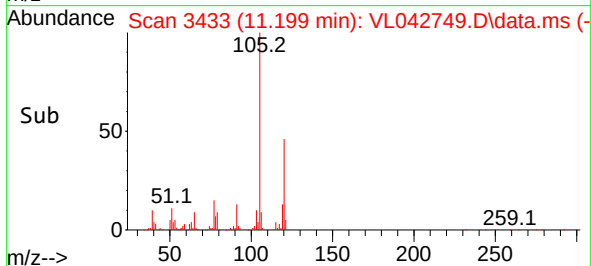
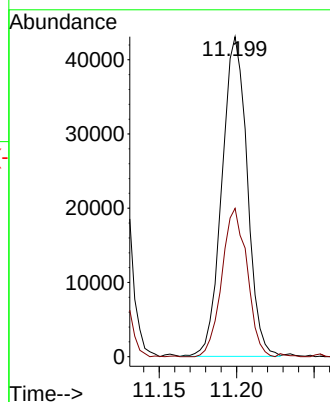
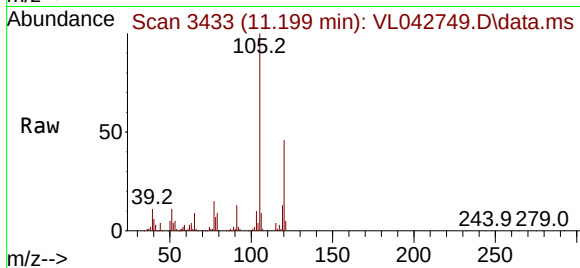
VSTDIC001

Tgt Ion:105 Resp: 48901

Ion Ratio Lower Upper

105 100

120 46.4 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 0.994 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Tgt Ion:105 Resp: 55153

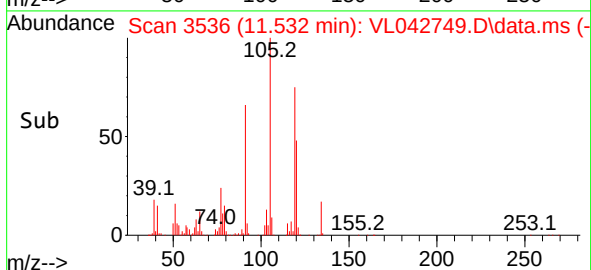
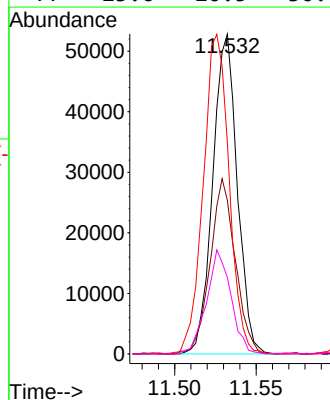
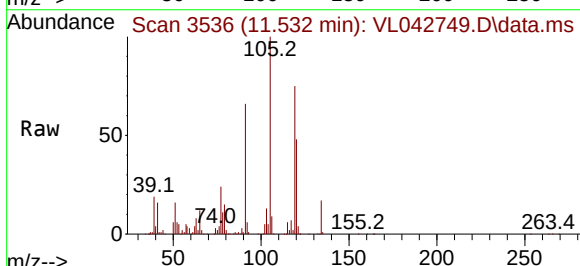
Ion Ratio Lower Upper

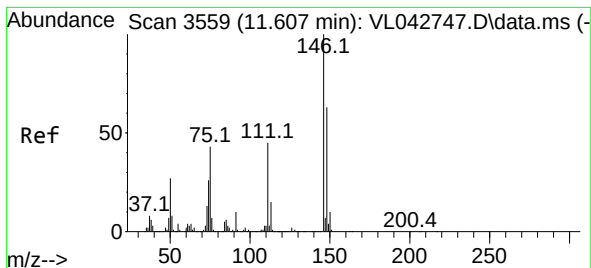
105 100

120 48.0 40.8 61.2

91 65.8 53.0 79.4

77 23.6 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 1.022 ppbv

RT: 11.600 min Scan# 3559

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

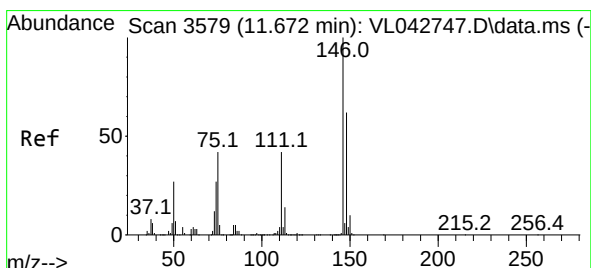
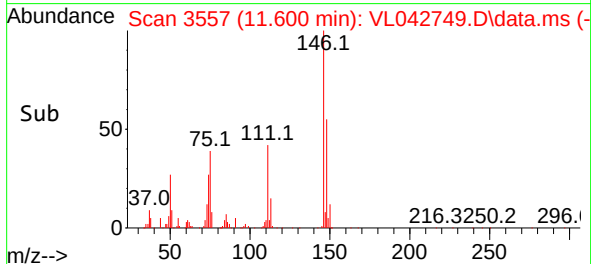
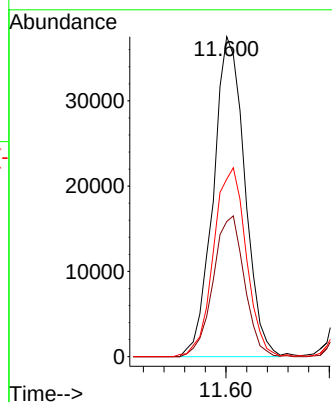
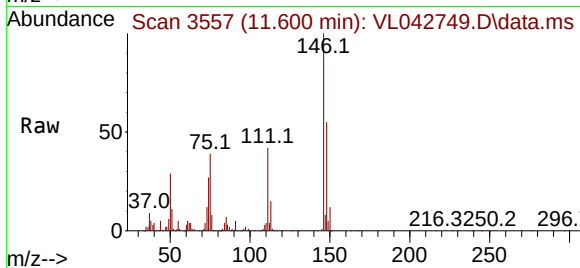
Tgt Ion:146 Resp: 39753

Ion Ratio Lower Upper

146 100

111 43.6 22.7 68.0

148 61.0 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 0.999 ppbv

RT: 11.665 min Scan# 3577

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

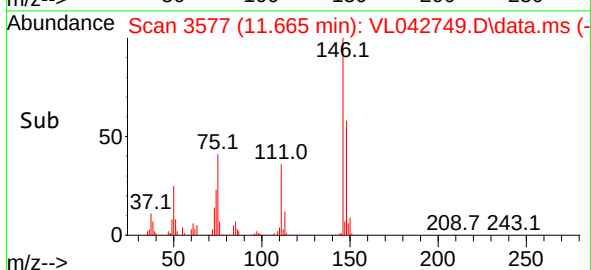
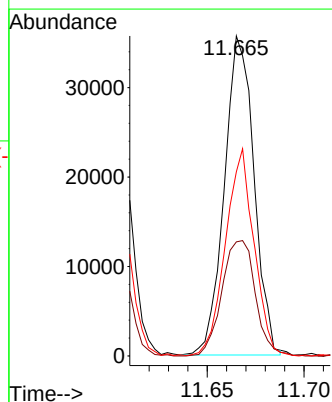
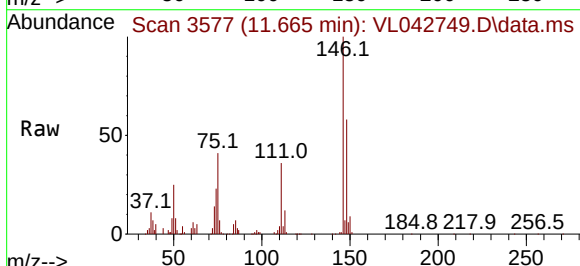
Tgt Ion:146 Resp: 38018

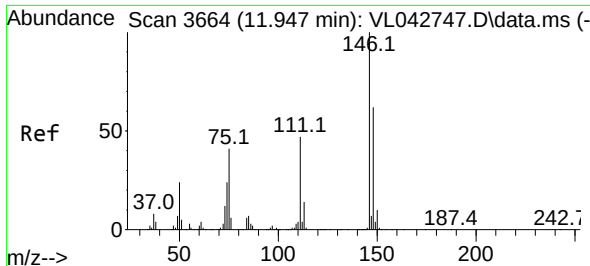
Ion Ratio Lower Upper

146 100

111 40.8 21.4 64.2

148 63.1 32.1 96.3

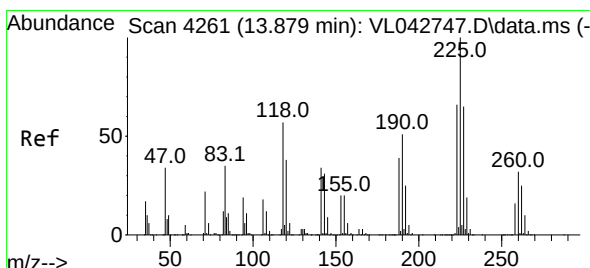
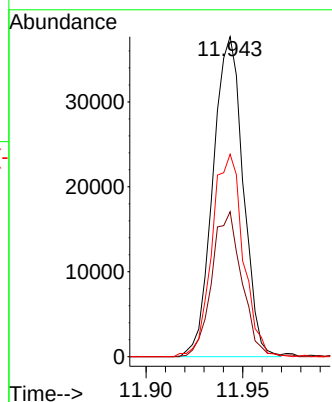
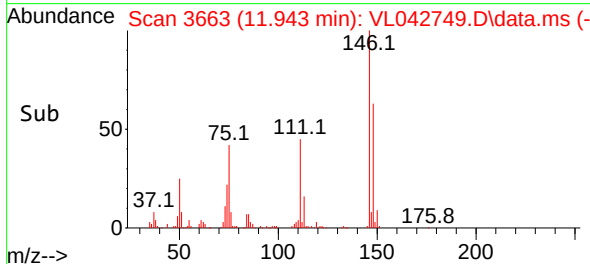
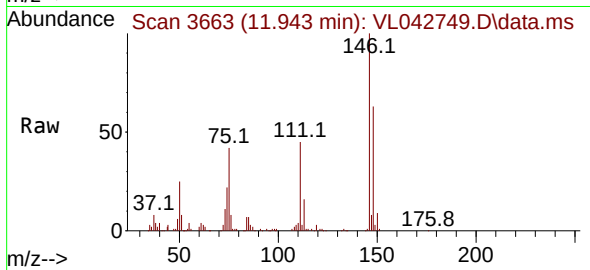




#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.943 min Scan# 30
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

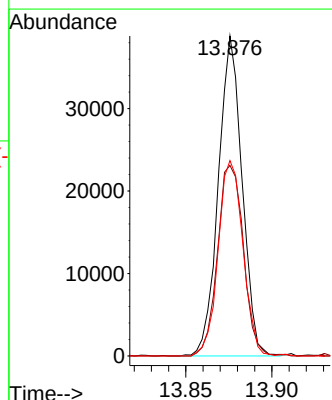
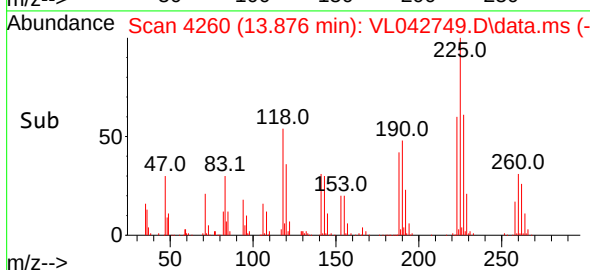
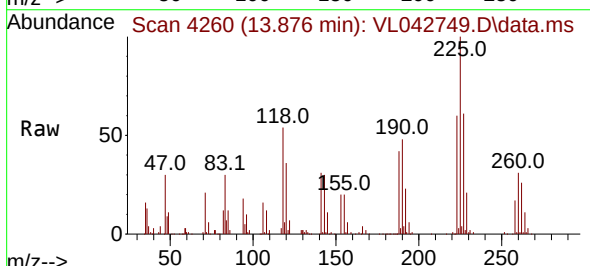
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

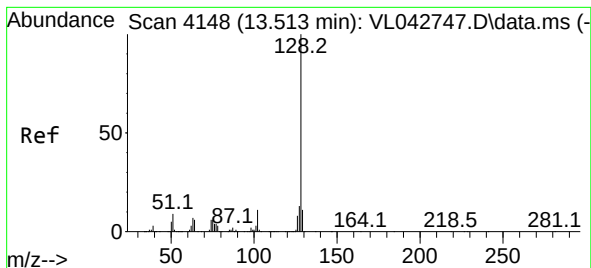
Tgt Ion:146 Resp: 40835
Ion Ratio Lower Upper
146 100
111 45.3 23.7 71.1
148 65.5 32.6 97.7



#78
Hexachloro-1,3-Butadiene
Concen: 1.076 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042749.D
Acq: 23 Jul 2025 10:08

Tgt Ion:225 Resp: 37228
Ion Ratio Lower Upper
225 100
223 65.2 50.7 76.1
227 63.9 50.5 75.7





#79

Naphthalene

Concen: 0.907 ppbv

RT: 13.510 min Scan# 4148

Delta R.T. -0.003 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

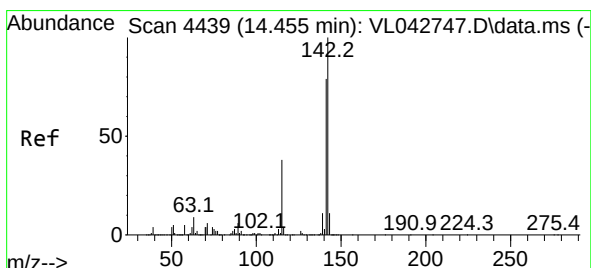
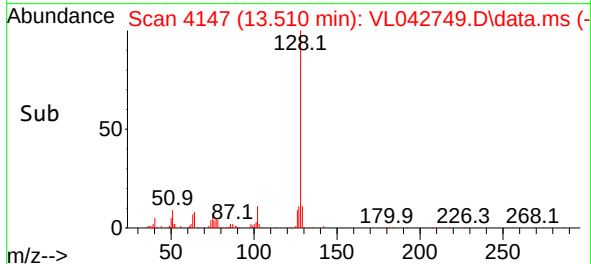
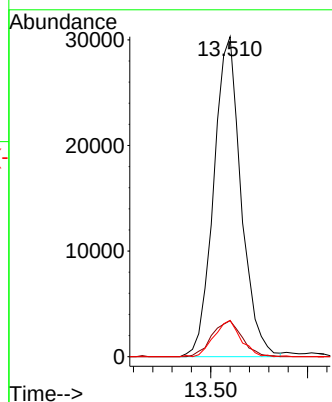
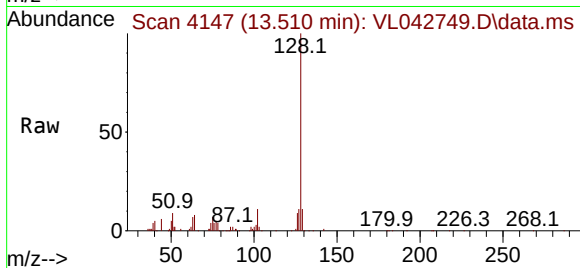
Tgt Ion:128 Resp: 29792

Ion Ratio Lower Upper

128 100

127 11.3 10.5 15.7

129 11.4 8.6 13.0



#80

Naphthalene,2-methyl-

Concen: 1.184 ppbv

RT: 14.449 min Scan# 4437

Delta R.T. -0.007 min

Lab File: VL042749.D

Acq: 23 Jul 2025 10:08

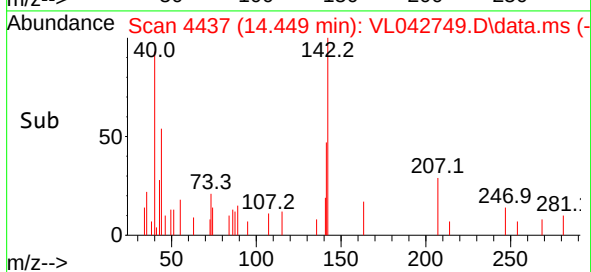
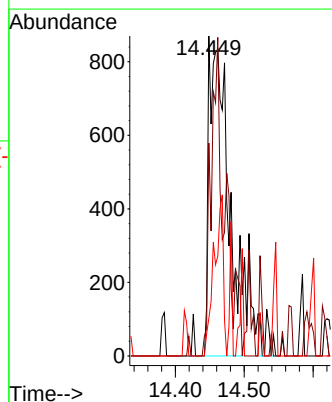
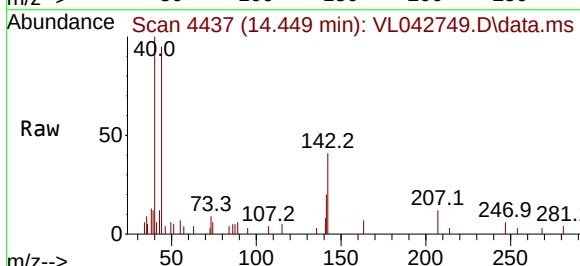
Tgt Ion:142 Resp: 1950

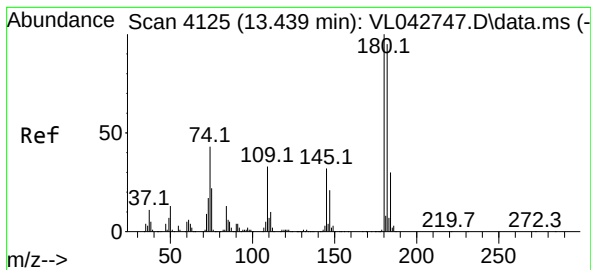
Ion Ratio Lower Upper

142 100

141 63.5 65.8 98.8#

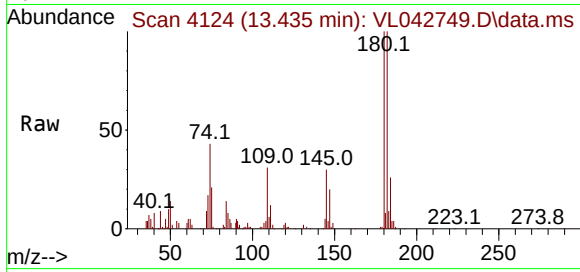
115 25.1 31.2 46.8#



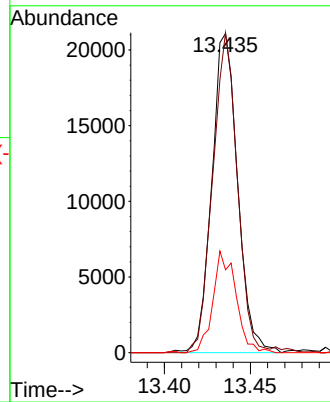
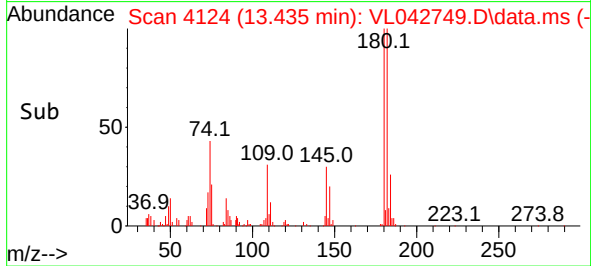


#81
 1,2,4-Trichlorobenzene
 Concen: 1.053 ppbv
 RT: 13.435 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042749.D
 Acq: 23 Jul 2025 10:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:	180	Resp:	21929
Ion Ratio	Lower	Upper	
180	100		
182	96.7	76.2	114.2
184	28.7	24.8	37.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042750.D
 Acq On : 23 Jul 2025 10:42
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Jul 24 04:58:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	151256	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	446836	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	408626	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	319353	9.869	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	11099	0.555	ppbv	98
3) Chlorodifluoromethane	1.476	51	14291	0.549	ppbv	97
4) Chloromethane	1.531	50	4428	0.547	ppbv	96
5) Vinyl Chloride	1.580	62	3902	0.488	ppbv	97
6) Bromomethane	1.667	94	1717	0.556	ppbv #	38
7) Chloroethane	1.703	64	2102	0.681	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	8971	0.545	ppbv	97
9) Propene	1.483	41	4695	0.496	ppbv #	77
10) Heptane	4.978	43	9190	0.361	ppbv #	66
11) Trichlorofluoromethane	1.878	101	11021	0.535	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.137	101	8430	0.538	ppbv	98
13) Ethanol	1.719	45	781	0.087	ppbv #	1
14) Bromoethene	1.781	108	2971	0.536	ppbv #	92
15) Acetone	1.836	43	14012	0.671	ppbv #	88
16) 1,3-Butadiene	1.609	39	5488	0.616	ppbv	100
17) tert-Butyl alcohol	2.040	59	10333	0.549	ppbv #	77
18) 1,1-Dichloroethene	2.033	96	4051	0.572	ppbv	77
19) Isopropyl Alcohol	1.888	45	6478	0.584	ppbv #	81
20) Methylene Chloride	2.059	84	4500	0.684	ppbv	82
21) Allyl Chloride	2.098	41	6829	0.531	ppbv #	80
22) trans-1,2-Dichloroethene	2.341	96	4186	0.551	ppbv	88
23) Vinyl Acetate	2.460	43	12423	0.491	ppbv #	76
24) 1,1-Dichloroethane	2.405	63	7962	0.509	ppbv #	91
25) Ethyl Acetate	2.836	43	23632	0.511	ppbv	97
26) Hexane	2.823	57	10019	0.494	ppbv	90
27) Carbon Disulfide	2.150	76	8670	0.499	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	4937	0.515	ppbv #	79
29) Chloroform	2.849	83	17100	0.546	ppbv #	82
30) Cyclohexane	3.855	84	8596	0.500	ppbv	89
31) cis-1,2-Dichloroethene	2.723	61	11032	0.529	ppbv	99
32) 1,1,1-Trichloroethane	3.367	97	16132	0.494	ppbv	97
34) 2-Butanone	2.557	43	16299	0.515	ppbv	94
35) Carbon Tetrachloride	3.761	117	15207	0.458	ppbv	90
36) Benzene	3.651	78	21800	0.515	ppbv	96
37) 1,2-Dichloroethane	3.215	62	13299	0.521	ppbv #	95
38) Trichloroethene	4.548	130	9150	0.448	ppbv	89
39) 1,2-Dichloropropane	4.312	63	8291	0.530	ppbv #	90
40) 1,4-Dioxane	4.593	88	1378	0.187	ppbv #	21
41) Tetrahydrofuran	3.056	42	4590	0.289	ppbv #	42
42) Bromodichloromethane	4.487	83	10591	0.318	ppbv #	95
43) Methyl Methacrylate	4.881	69	5938	0.394	ppbv #	79
44) 2,2,4-Trimethylpentane	4.639	57	33853	0.490	ppbv	93
45) t-1,3-Dichloropropene	6.412	75	5781	0.342	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042750.D
 Acq On : 23 Jul 2025 10:42
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Jul 24 04:58:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

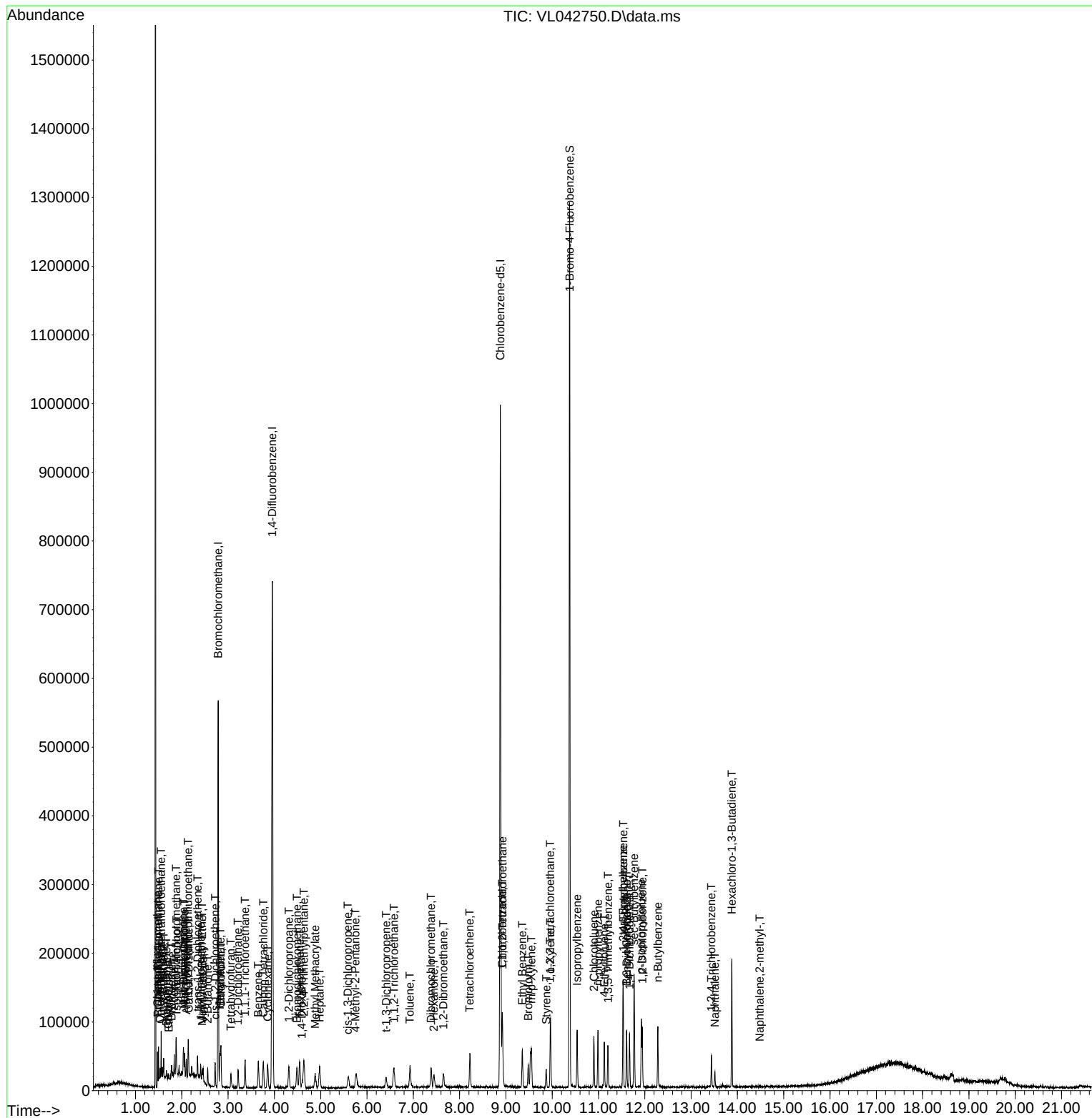
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	3465	0.162	ppbv	90
47) 1,1,2-Trichloroethane	6.584	97	4878	0.293	ppbv #	88
48) Dibromochloromethane	7.383	129	8515	0.322	ppbv #	49
49) Bromoform	9.481	173	10801	0.468	ppbv	97
50) 4-Methyl-2-Pentanone	5.752	43	5736	0.142	ppbv #	40
51) 2-Hexanone	7.442	43	6572	0.213	ppbv #	30
52) Tetrachloroethene	8.218	164	8359	0.475	ppbv #	81
53) Toluene	6.924	91	21324	0.469	ppbv	95
54) 1,2-Dibromoethane	7.649	107	6536	0.277	ppbv	82
56) 1,1,1,2-Tetrachloroethane	8.924	131	11191	0.527	ppbv #	1
57) Chlorobenzene	8.921	112	20828	0.527	ppbv #	84
58) Ethyl Benzene	9.354	91	29134	0.451	ppbv	96
59) m/p-Xylene	9.549	91	17145	0.332	ppbv #	1
60) o-Xylene	9.963	91	23603	0.458	ppbv	100
61) Styrene	9.872	104	9195	0.424	ppbv	97
62) Isopropylbenzene	10.539	105	35189	0.463	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.956	83	15544	0.463	ppbv	99
64) n-propylbenzene	10.989	120	8924	0.450	ppbv	99
65) tert-Butylbenzene	11.529	119	30560	0.453	ppbv	95
66) Benzyl Chloride	11.607	91	845	0.152	ppbv #	28
67) sec-Butylbenzene	11.766	105	44169	0.460	ppbv	100
69) p-Isopropyltoluene	11.924	119	33104	0.423	ppbv	99
70) n-Butylbenzene	12.280	91	29048	0.384	ppbv	99
71) 2-Chlorotoluene	10.902	91	27184	0.466	ppbv	97
72) 4-Ethyltoluene	11.125	105	26395	0.429	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.206	105	22392	0.442	ppbv #	85
74) 1,2,4-Trimethylbenzene	11.536	105	22772	0.412	ppbv	96
75) 1,3-Dichlorobenzene	11.607	146	18680	0.482	ppbv	96
76) 1,4-Dichlorobenzene	11.669	146	17616	0.465	ppbv	97
77) 1,2-Dichlorobenzene	11.947	146	18799	0.494	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	18330	0.532	ppbv	99
79) Naphthalene	13.514	128	9916	0.592	ppbv	97
80) Naphthalene,2-methyl-	14.481	142	731	1.148	ppbv #	61
81) 1,2,4-Trichlorobenzene	13.436	180	7453	0.645	ppbv	95

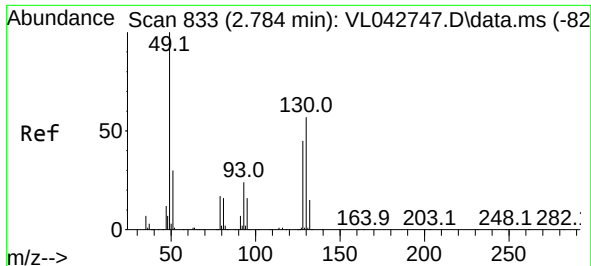
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Acq On : 23 Jul 2025 10:42
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Jul 24 04:58:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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Response via : Initial Calibration

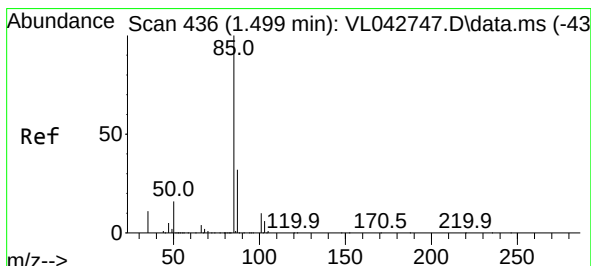
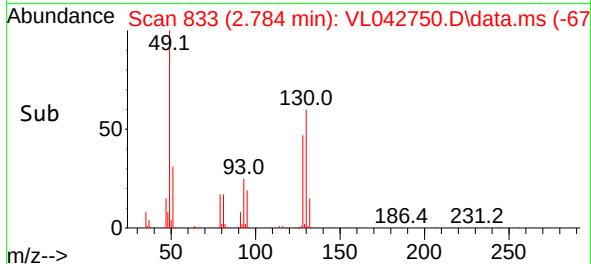
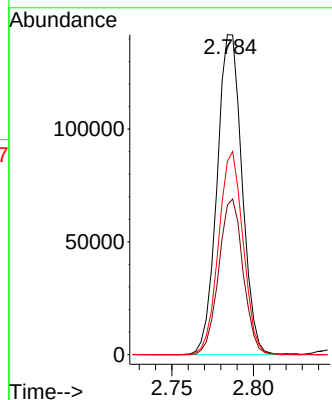
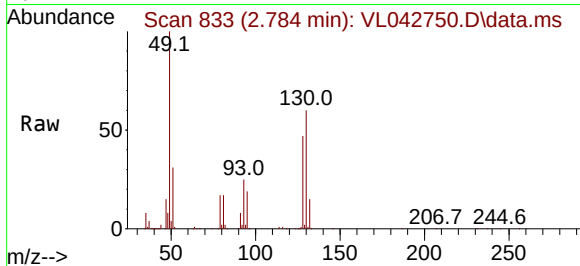




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 833
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

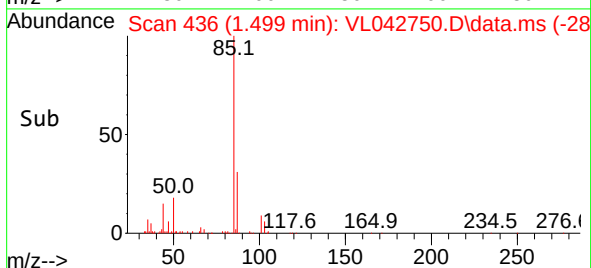
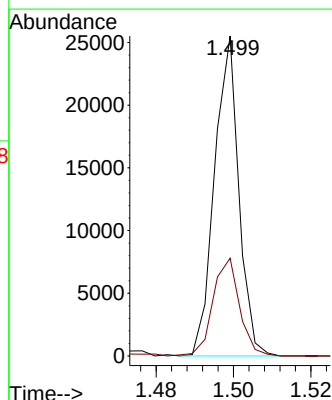
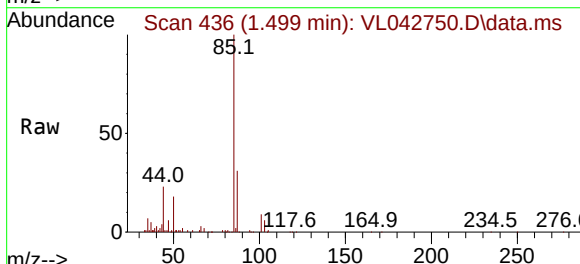
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

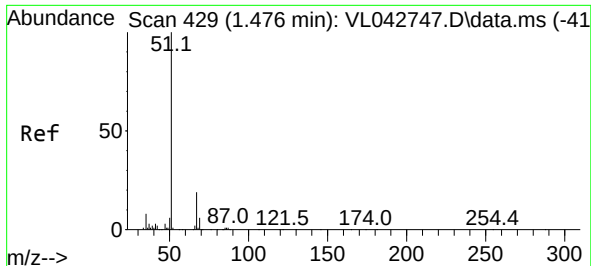
Tgt Ion: 49 Resp: 151256
 Ion Ratio Lower Upper
 49 100
 128 47.4 23.6 71.0
 130 62.2 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 0.555 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion: 85 Resp: 11099
 Ion Ratio Lower Upper
 85 100
 87 30.6 25.4 38.2

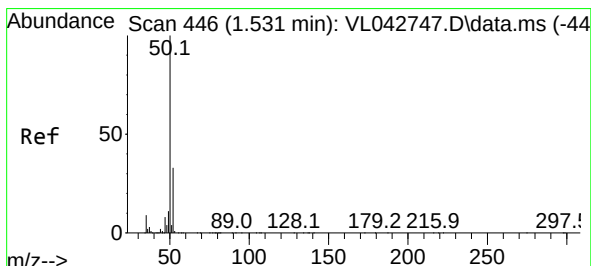
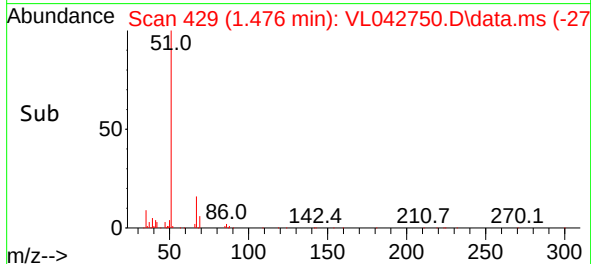
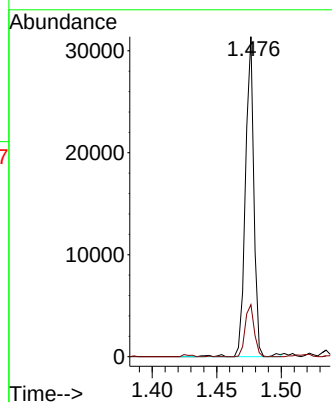
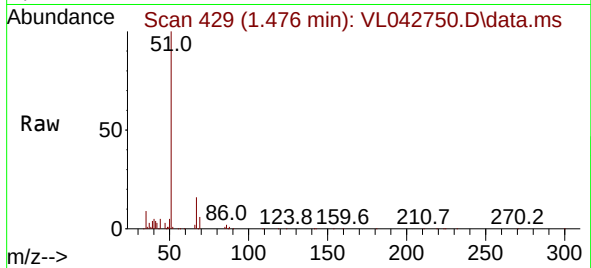




#3
Chlorodifluoromethane
Concen: 0.549 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

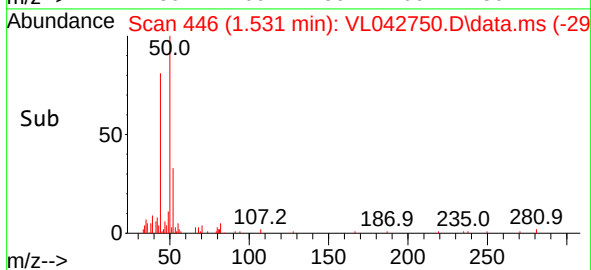
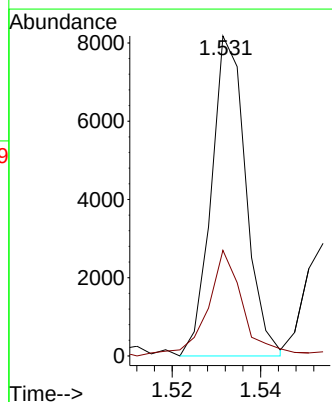
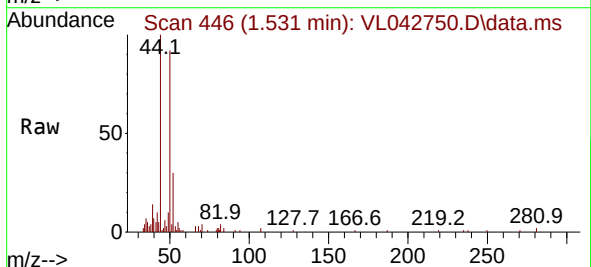
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

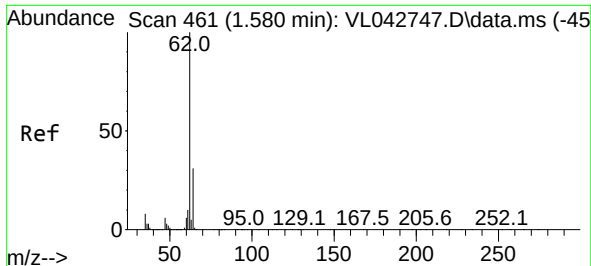
Tgt Ion: 51 Resp: 14291
Ion Ratio Lower Upper
51 100
67 17.4 15.0 22.6



#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 50 Resp: 4428
Ion Ratio Lower Upper
50 100
52 30.8 26.6 40.0

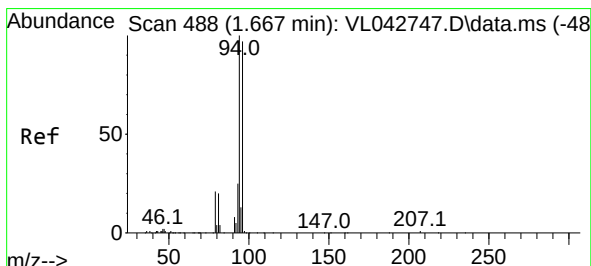
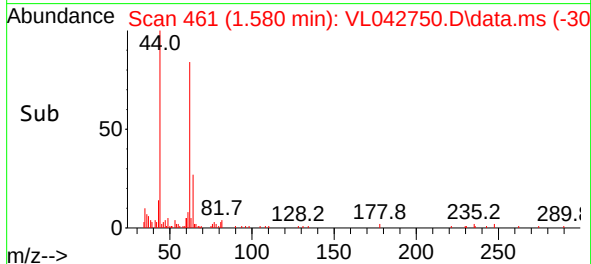
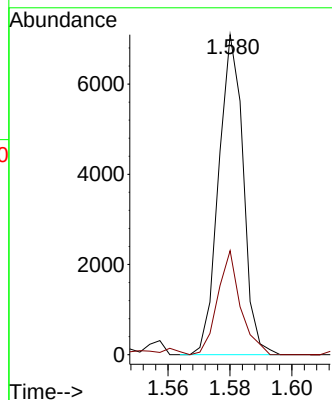
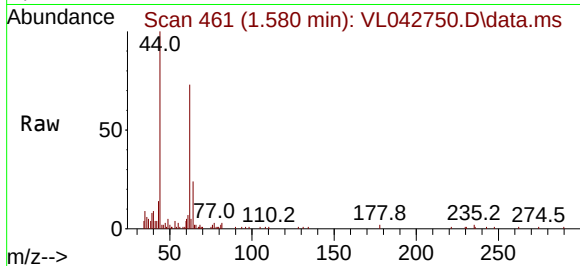




#5
 Vinyl Chloride
 Concen: 0.488 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

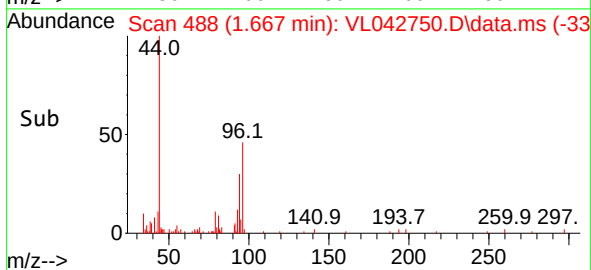
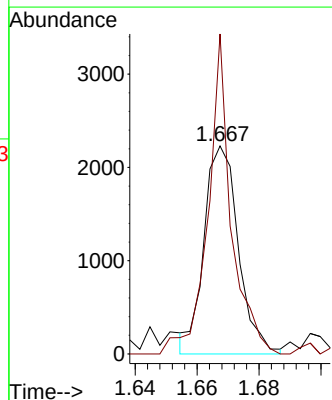
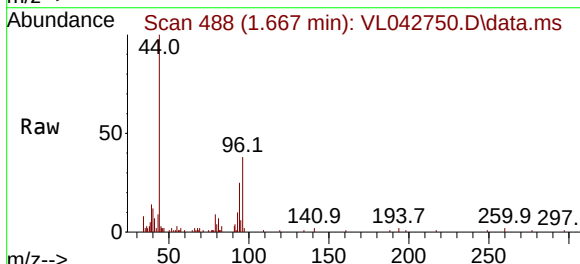
Instrument :
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 ClientSampleId :
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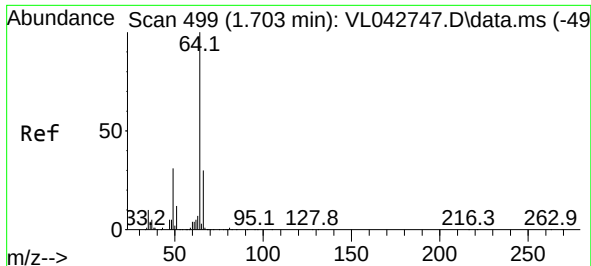
Tgt Ion: 62 Resp: 3902
 Ion Ratio Lower Upper
 62 100
 64 32.5 24.5 36.7



#6
 Bromomethane
 Concen: 0.556 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion: 94 Resp: 1717
 Ion Ratio Lower Upper
 94 100
 96 157.5 77.6 116.4#

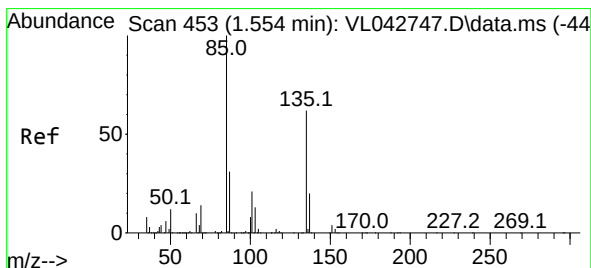
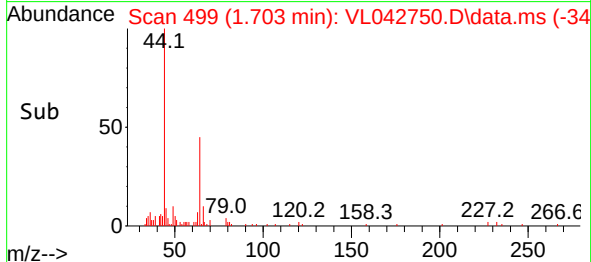
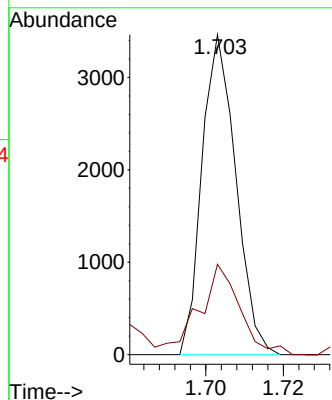
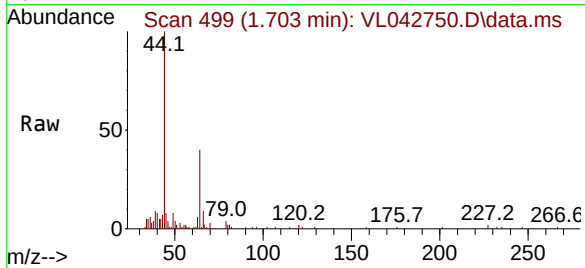




#7
Chloroethane
Concen: 0.681 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

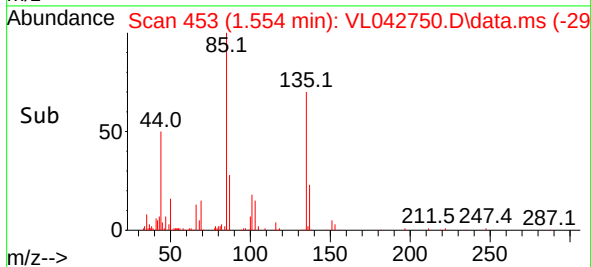
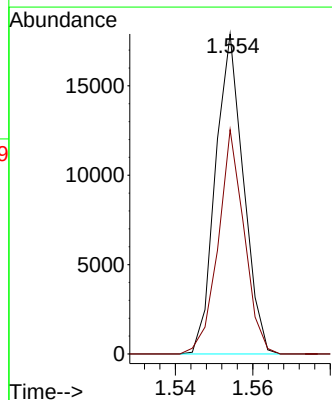
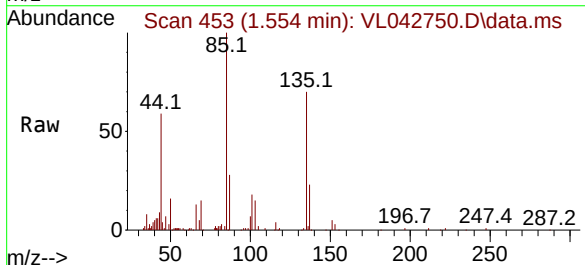
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

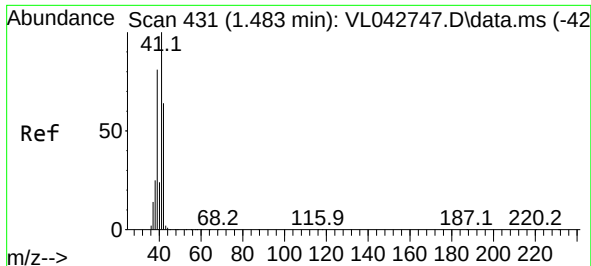
Tgt Ion: 64 Resp: 2102
Ion Ratio Lower Upper
64 100
66 28.3 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 0.545 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 85 Resp: 8971
Ion Ratio Lower Upper
85 100
135 65.3 50.6 76.0





#9

Propene

Concen: 0.496 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

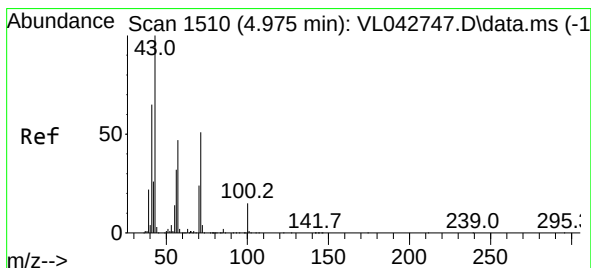
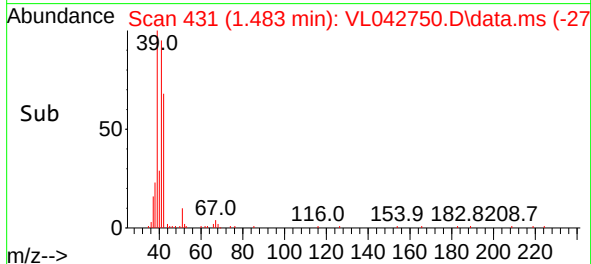
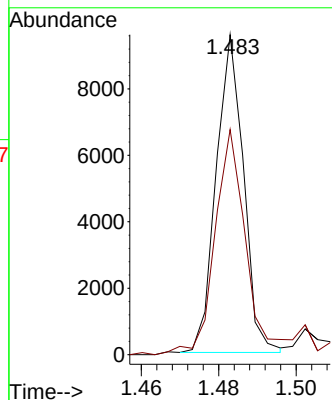
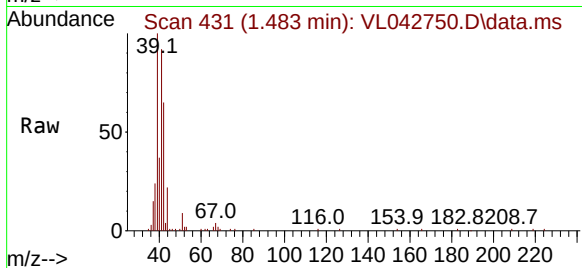
VSTDICC0.5

Tgt Ion: 41 Resp: 4695

Ion Ratio Lower Upper

41 100

42 84.9 53.2 79.8#



#10

Heptane

Concen: 0.361 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.003 min

Lab File: VL042750.D

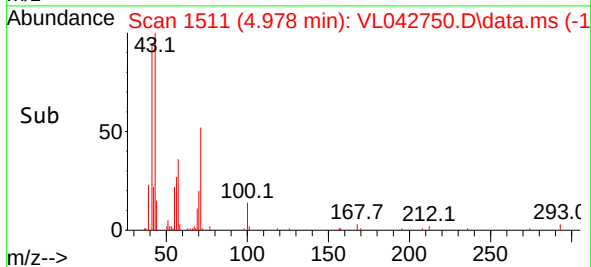
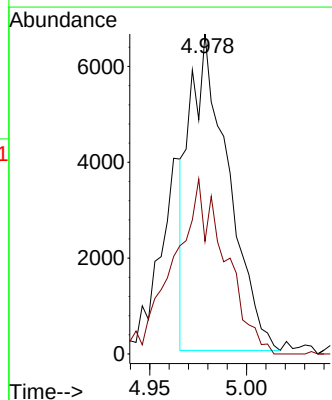
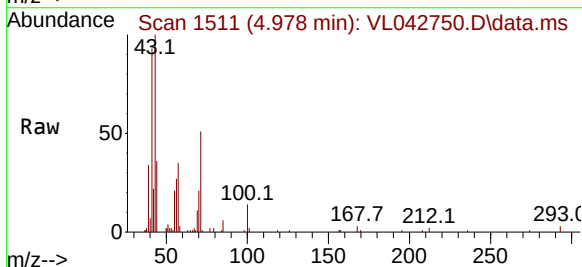
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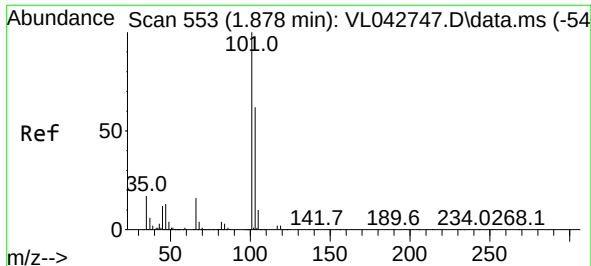
Tgt Ion: 43 Resp: 9190

Ion Ratio Lower Upper

43 100

57 73.4 39.9 59.9#

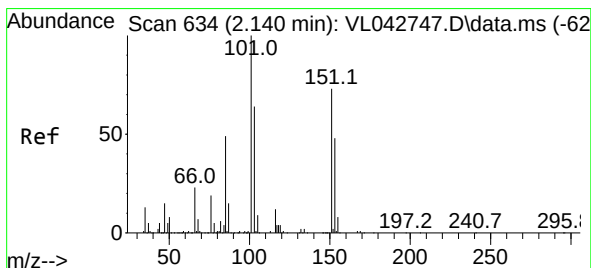
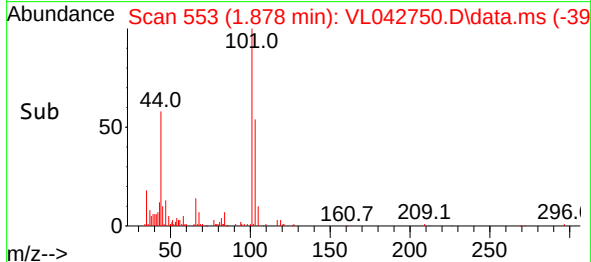
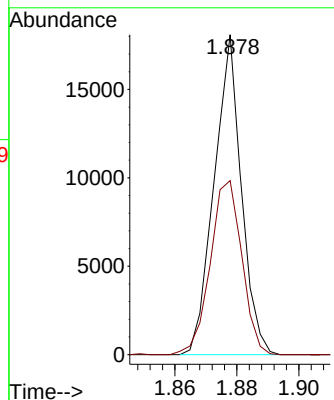
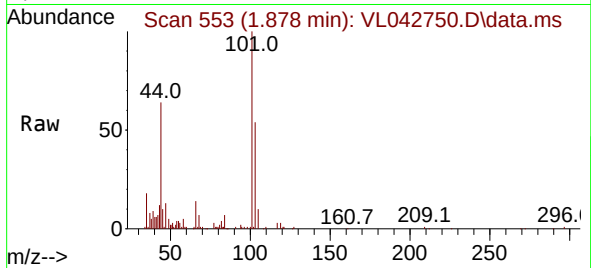




#11
 Trichlorofluoromethane
 Concen: 0.535 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

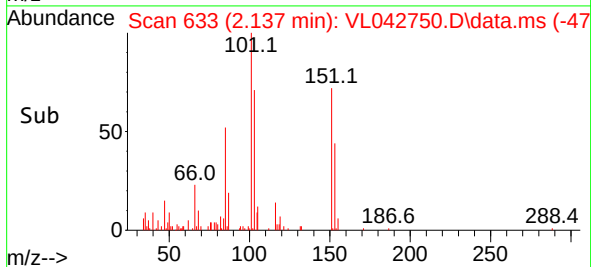
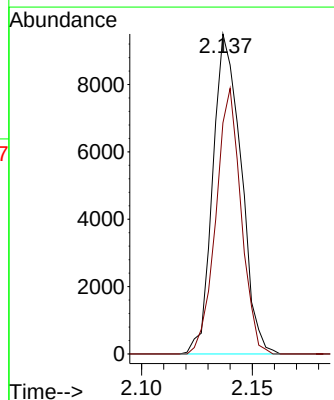
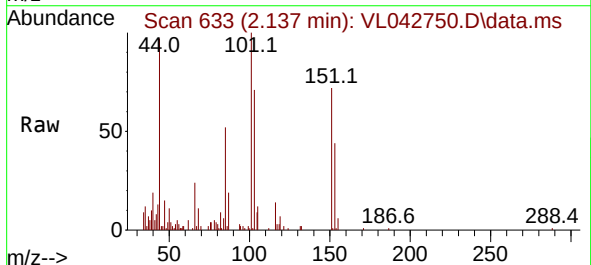
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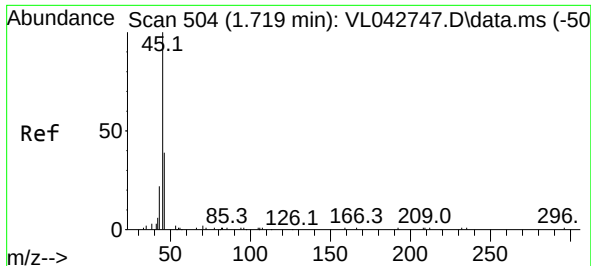
Tgt Ion:101 Resp: 11021
 Ion Ratio Lower Upper
 101 100
 103 54.4 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.538 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion:101 Resp: 8430
 Ion Ratio Lower Upper
 101 100
 151 74.0 60.5 90.7

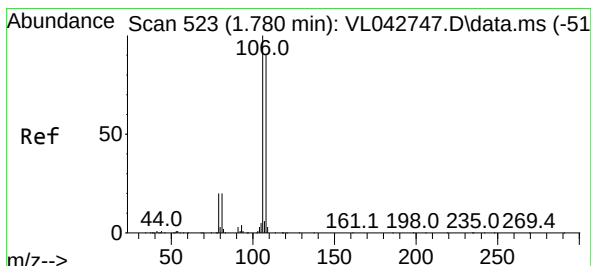
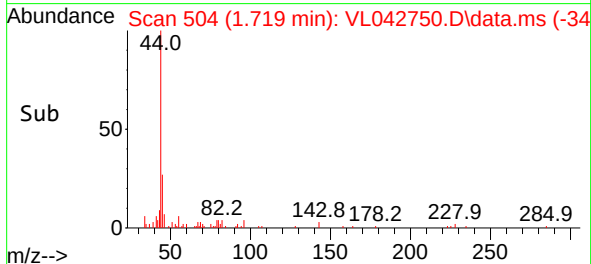
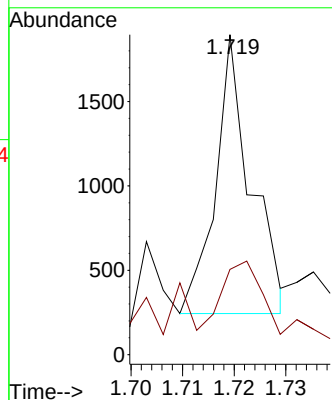
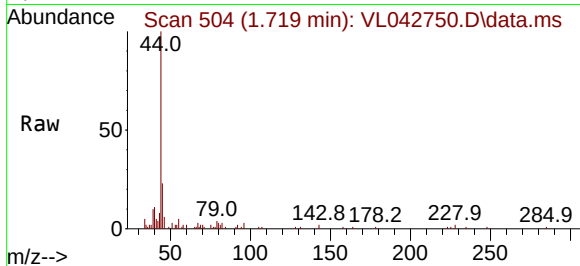




#13
 Ethanol
 Concen: 0.087 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

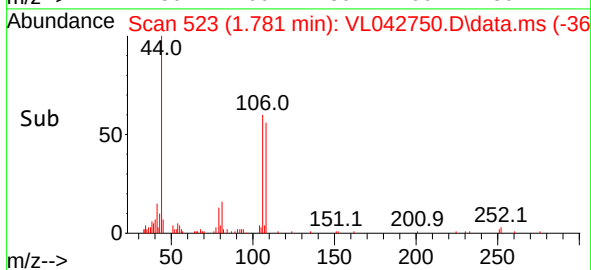
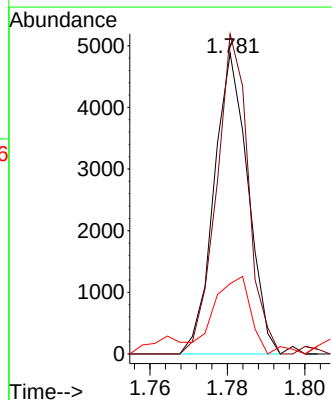
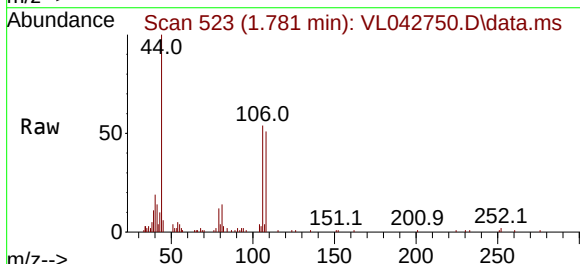
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

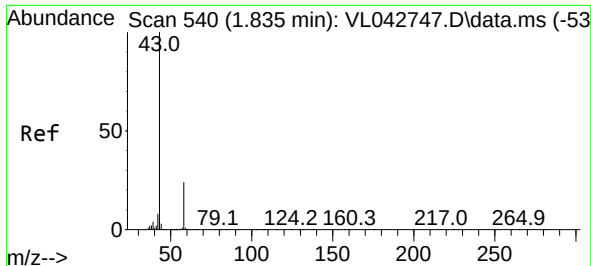
Tgt Ion: 45 Resp: 781
 Ion Ratio Lower Upper
 45 100
 46 110.8 17.8 71.4#



#14
 Bromoethene
 Concen: 0.536 ppbv
 RT: 1.781 min Scan# 523
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion: 108 Resp: 2971
 Ion Ratio Lower Upper
 108 100
 106 102.0 84.7 127.1
 79 35.4 17.4 26.2#

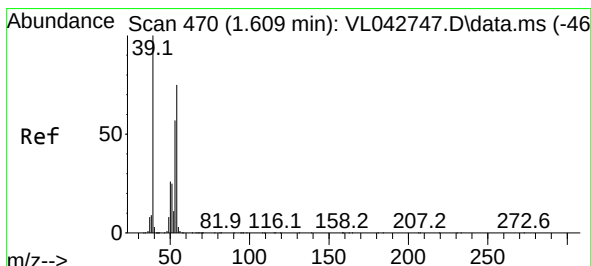
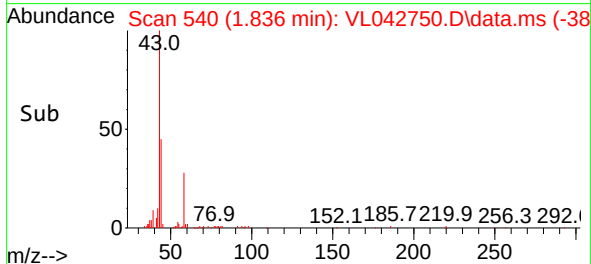
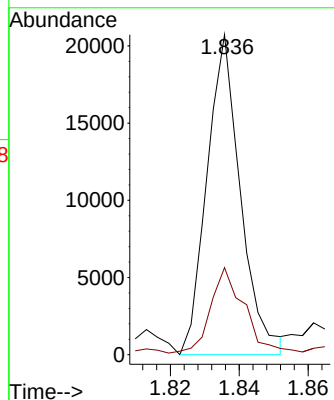
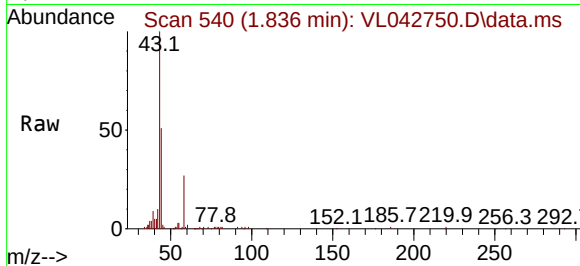




#15
Acetone
Concen: 0.671 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

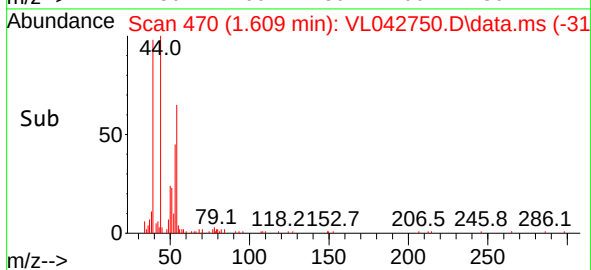
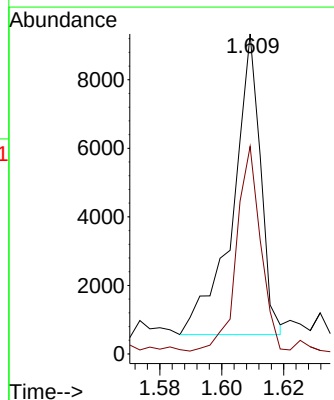
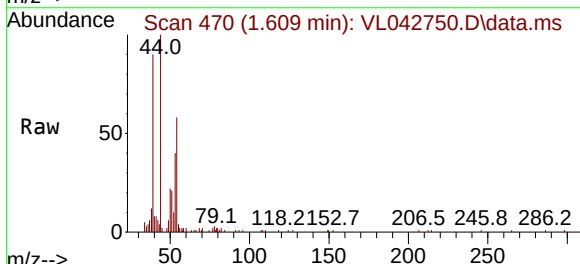
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

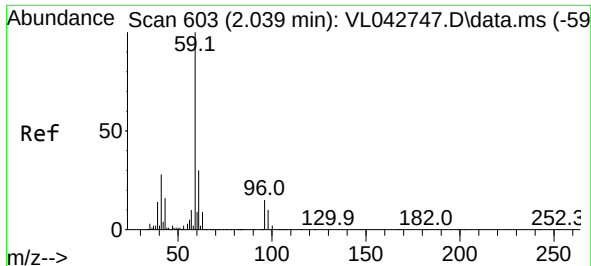
Tgt Ion: 43 Resp: 14012
Ion Ratio Lower Upper
43 100
58 30.8 19.8 29.8#



#16
1,3-Butadiene
Concen: 0.616 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 39 Resp: 5488
Ion Ratio Lower Upper
39 100
54 67.8 54.5 81.7





#17

tert-Butyl alcohol

Concen: 0.549 ppbv

RT: 2.040 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

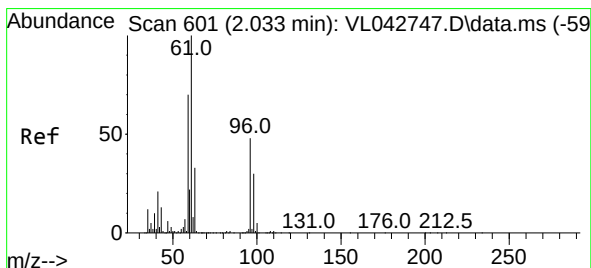
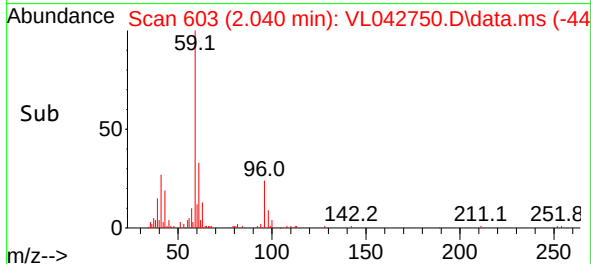
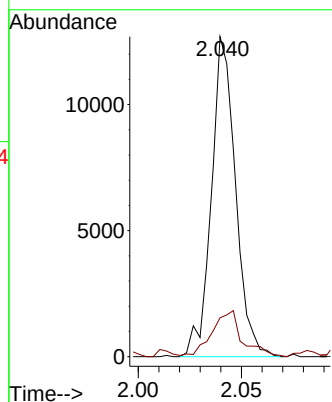
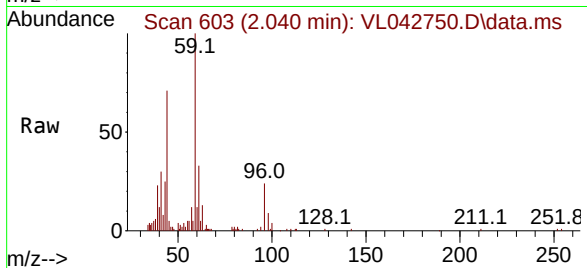
VSTDIC0.5

Tgt Ion: 59 Resp: 10333

Ion Ratio Lower Upper

59 100

57 19.1 8.3 12.5#



#18

1,1-Dichloroethene

Concen: 0.572 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

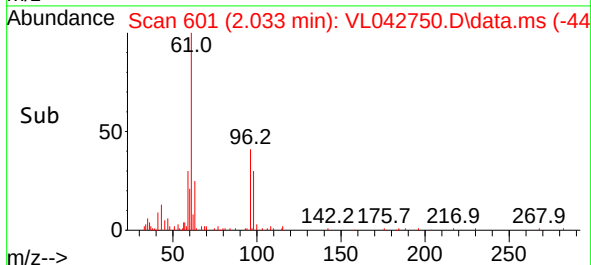
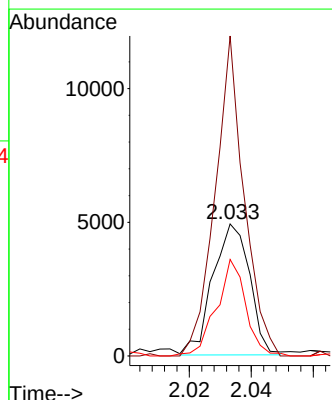
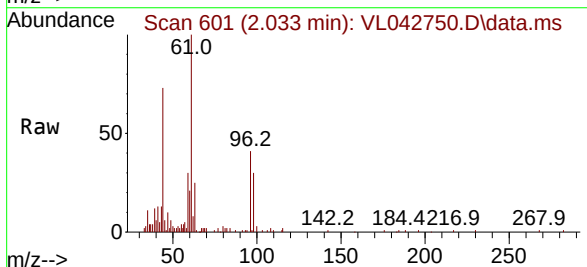
Tgt Ion: 96 Resp: 4051

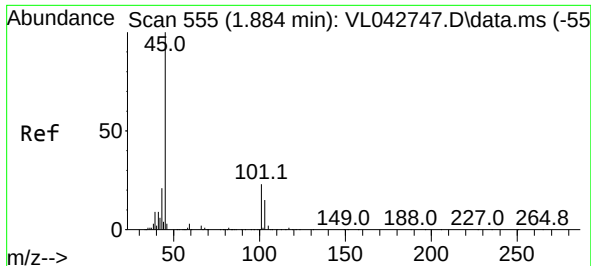
Ion Ratio Lower Upper

96 100

61 246.6 165.8 248.6

98 72.7 49.9 74.9





#19

Isopropyl Alcohol

Concen: 0.584 ppbv

RT: 1.888 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

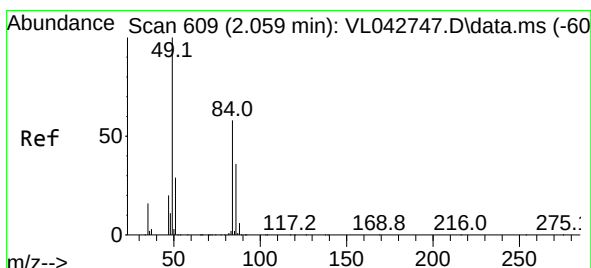
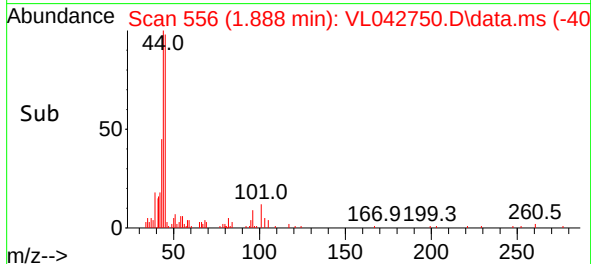
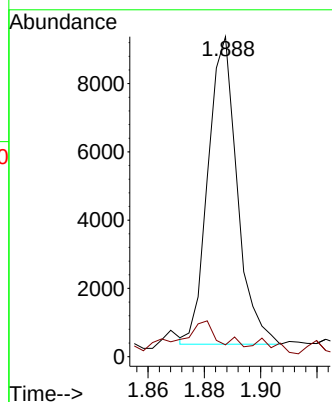
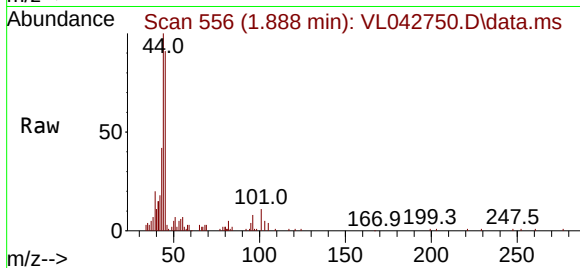
VSTDIC0.5

Tgt Ion: 45 Resp: 6478

Ion Ratio Lower Upper

45 100

58 25.9 30.0 45.0#



#20

Methylene Chloride

Concen: 0.684 ppbv

RT: 2.059 min Scan# 609

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Tgt Ion: 84 Resp: 4500

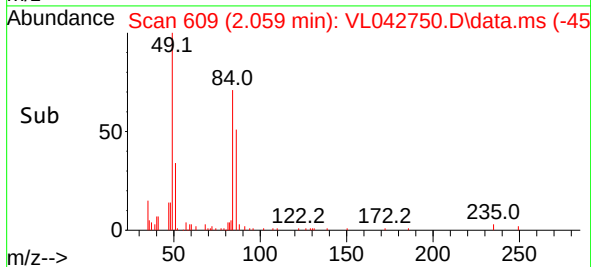
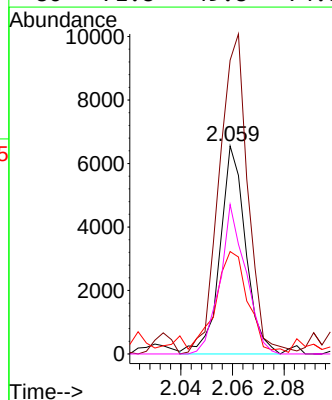
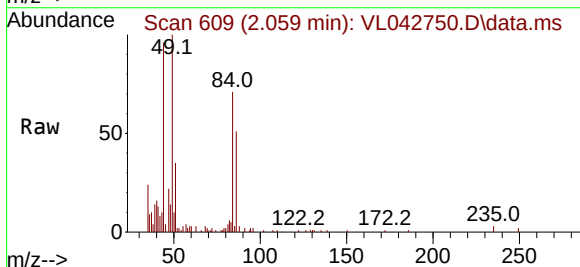
Ion Ratio Lower Upper

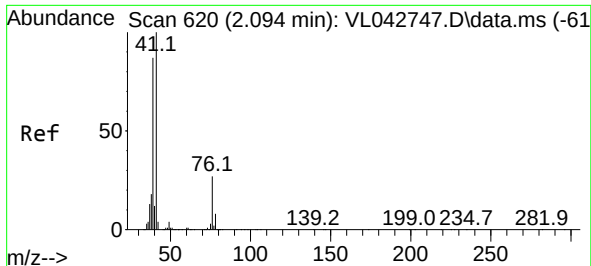
84 100

49 141.2 138.6 208.0

51 46.8 40.6 61.0

86 71.8 49.8 74.8

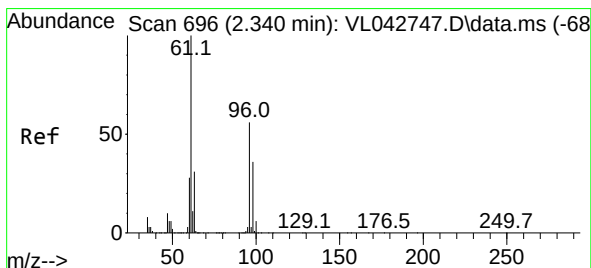
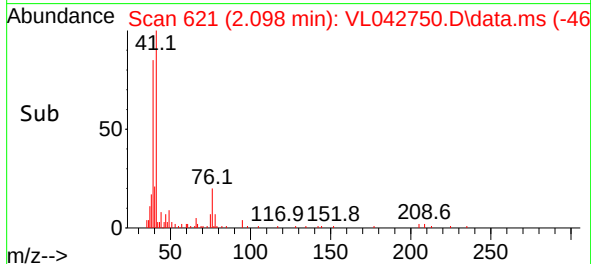
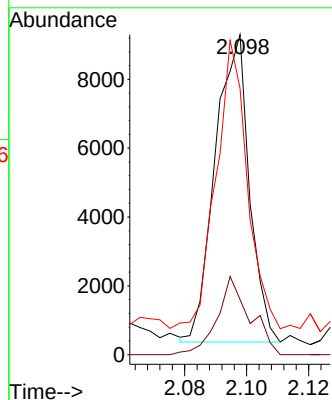
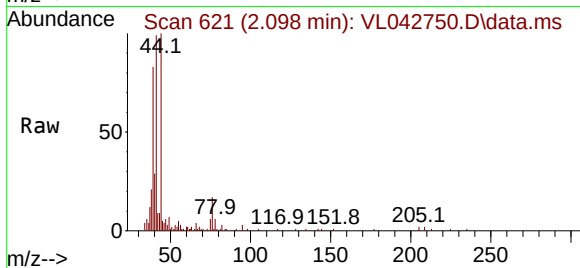




#21
 Allyl Chloride
 Concen: 0.531 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

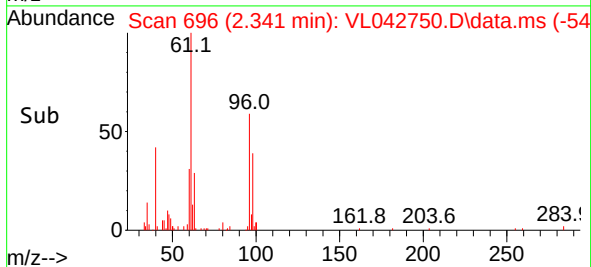
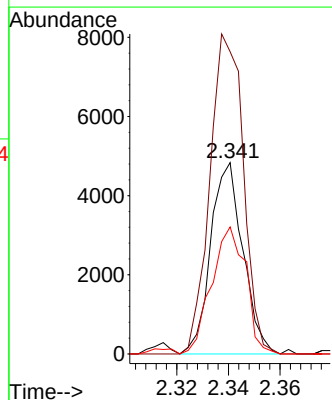
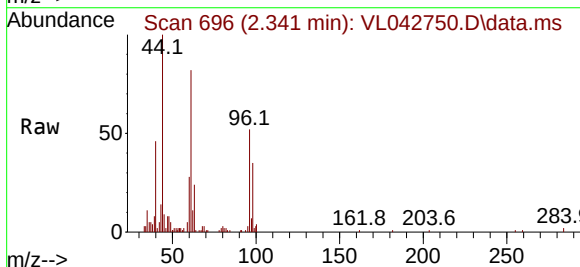
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

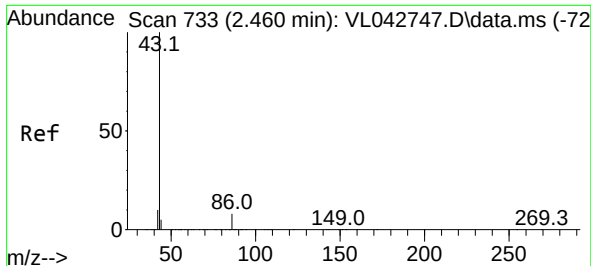
Tgt Ion: 41 Resp: 6829
 Ion Ratio Lower Upper
 41 100
 76 24.4 21.1 31.7
 39 108.8 68.3 102.5#



#22
 trans-1,2-Dichloroethene
 Concen: 0.551 ppbv
 RT: 2.341 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion: 96 Resp: 4186
 Ion Ratio Lower Upper
 96 100
 61 157.9 142.3 213.5
 98 66.4 50.6 76.0

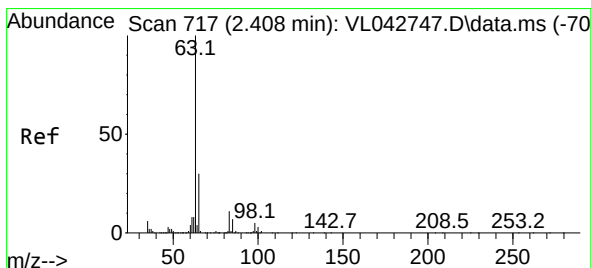
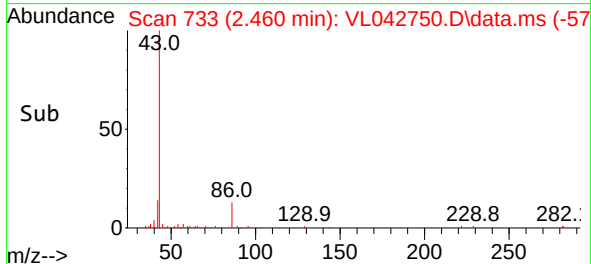
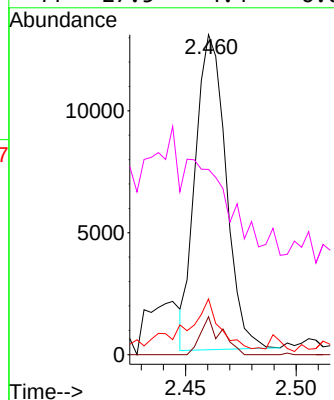
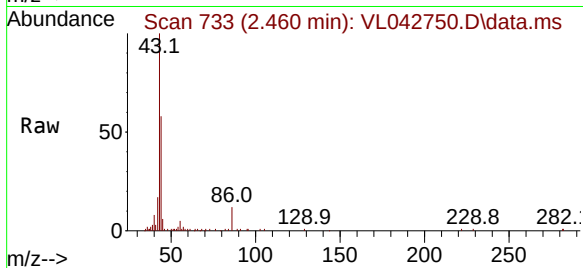




#23
 Vinyl Acetate
 Concen: 0.491 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

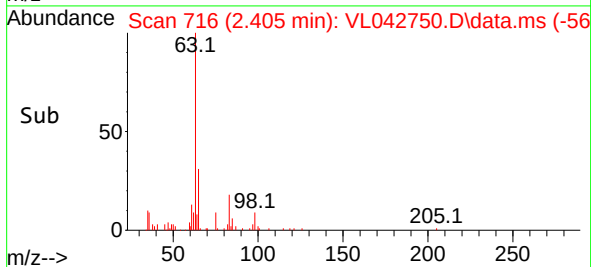
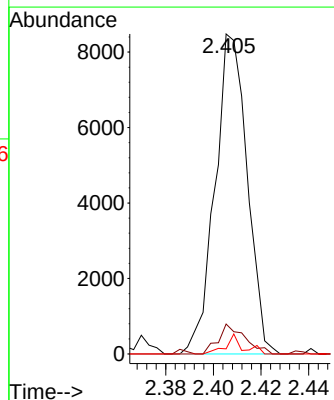
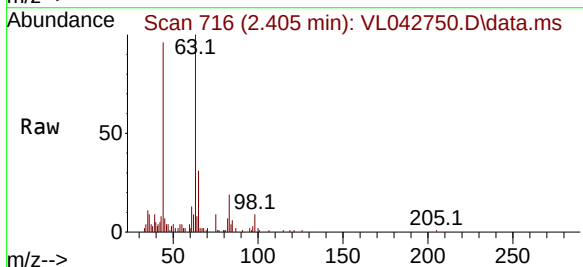
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

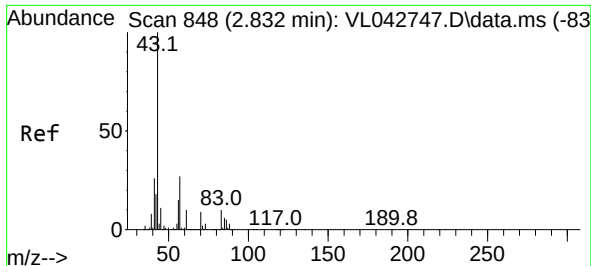
Tgt Ion:	43	Resp:	12423
Ion	Ratio	Lower	Upper
43	100		
86	12.1	6.1	9.1#
42	13.5	7.8	11.8#
44	27.5	4.4	6.6#



#24
 1,1-Dichloroethane
 Concen: 0.509 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion:	63	Resp:	7962
Ion	Ratio	Lower	Upper
63	100		
98	9.4	2.5	7.4#
100	2.8	1.6	4.8

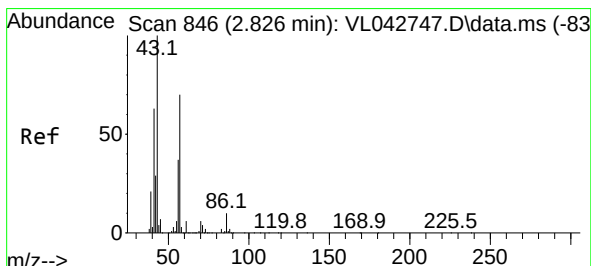
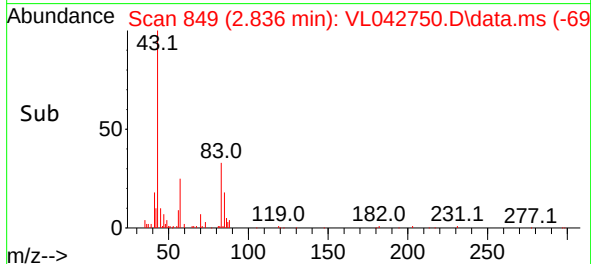
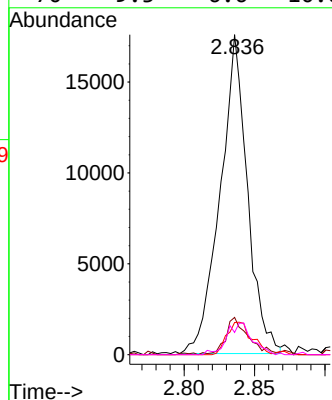
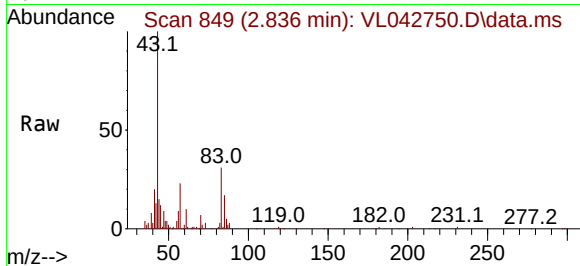




#25
Ethyl Acetate
Concen: 0.511 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

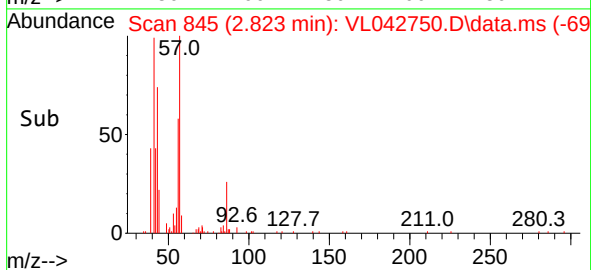
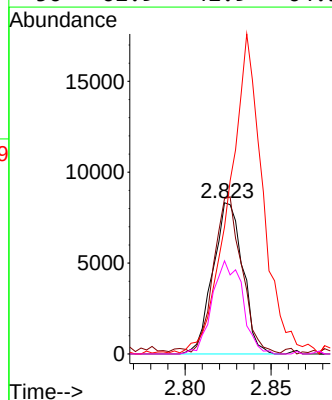
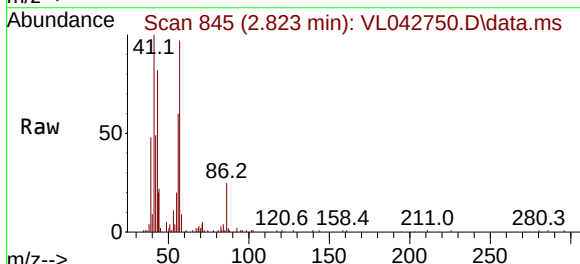
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

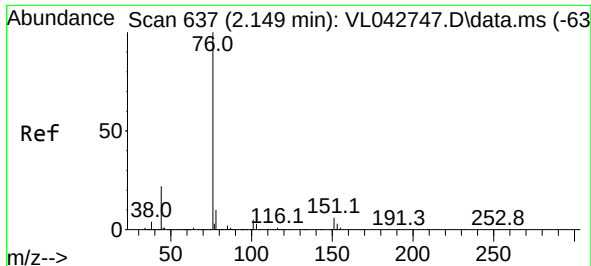
Tgt Ion: 43	Resp: 23632
Ion Ratio	Lower Upper
43	100
45	10.4 7.8 11.6
61	9.8 6.7 10.1
70	9.3 6.6 10.0



#26
Hexane
Concen: 0.494 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 57	Resp: 10019
Ion Ratio	Lower Upper
57	100
41	107.1 75.4 113.2
43	244.9 185.0 277.6
56	62.9 42.9 64.3

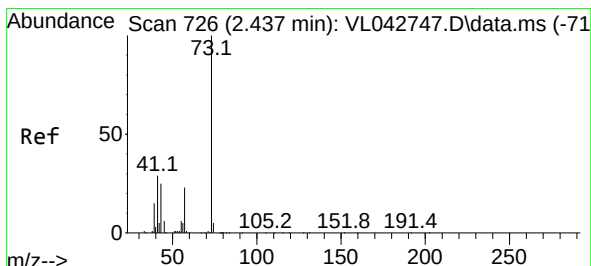
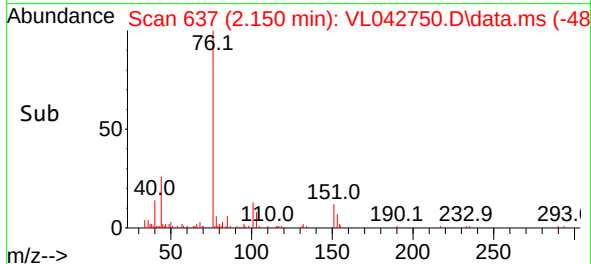
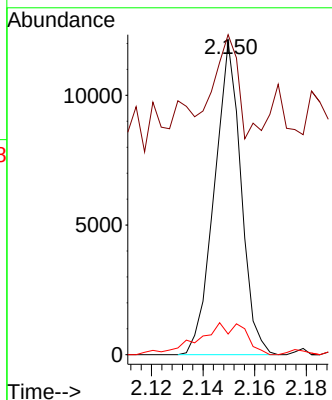
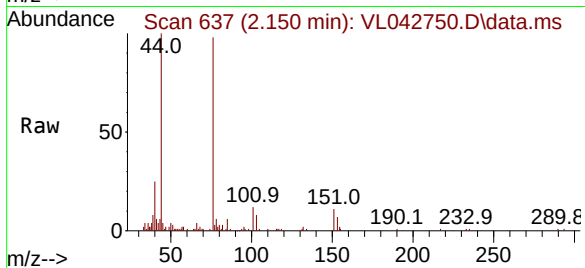




#27
Carbon Disulfide
Concen: 0.499 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

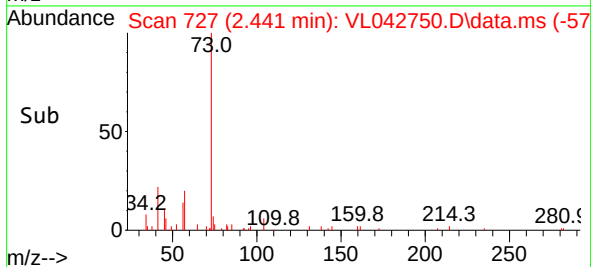
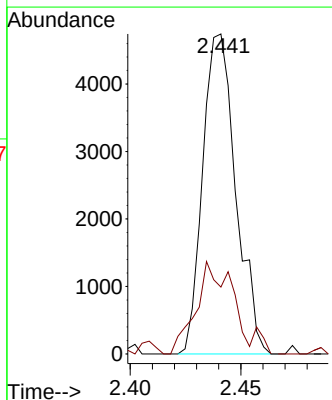
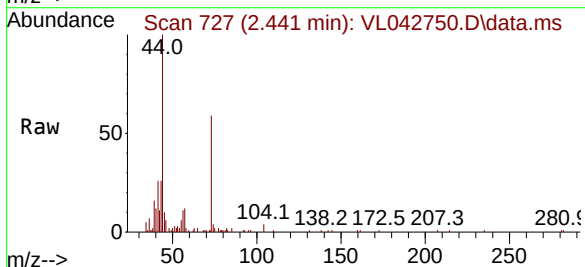
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

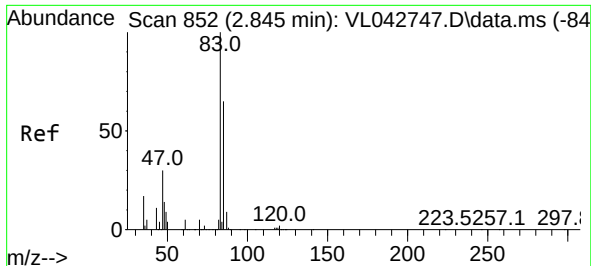
Tgt Ion: 76 Resp: 8670
Ion Ratio Lower Upper
76 100
44 203.7 19.3 28.9#
78 19.1 9.9 14.9#



#28
Methyl tert-Butyl Ether
Concen: 0.515 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 73 Resp: 4937
Ion Ratio Lower Upper
73 100
57 35.2 19.8 29.8#





#29

Chloroform

Concen: 0.546 ppbv

RT: 2.849 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

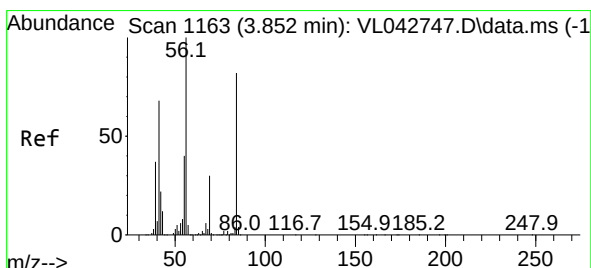
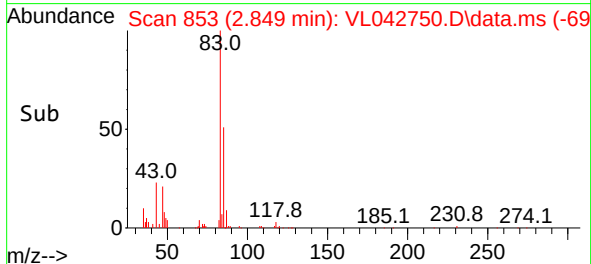
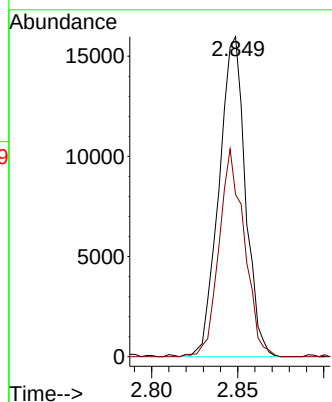
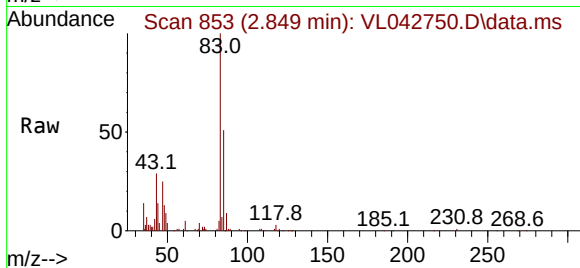
VSTDIC0.5

Tgt Ion: 83 Resp: 17100

Ion Ratio Lower Upper

83 100

85 50.7 52.2 78.2#



#30

Cyclohexane

Concen: 0.500 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

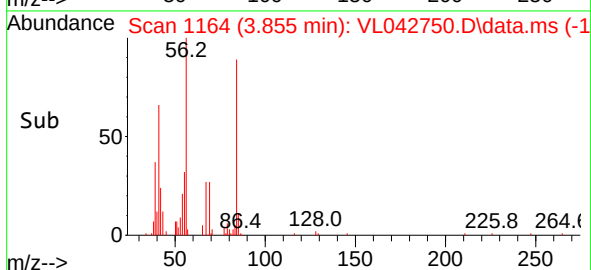
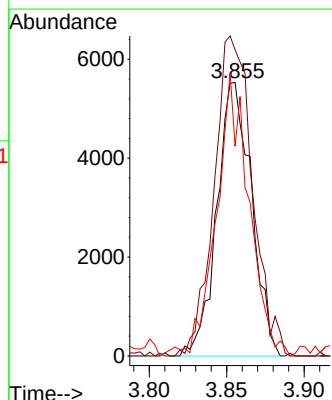
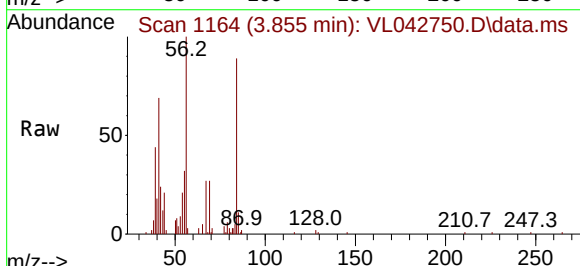
Tgt Ion: 84 Resp: 8596

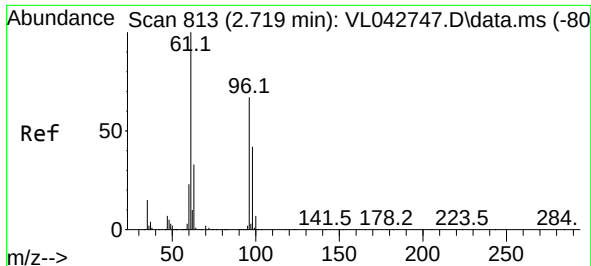
Ion Ratio Lower Upper

84 100

56 129.6 97.5 146.3

41 98.8 67.2 100.8

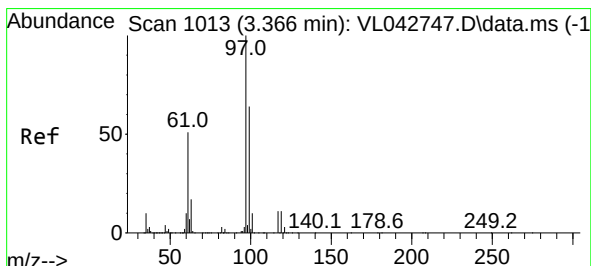
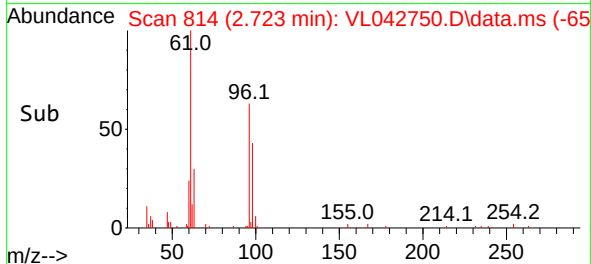
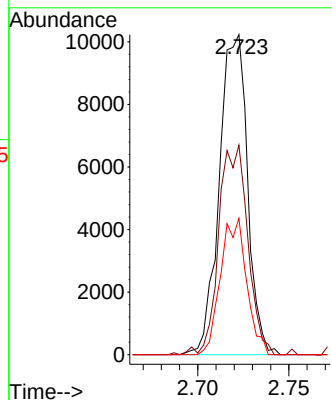
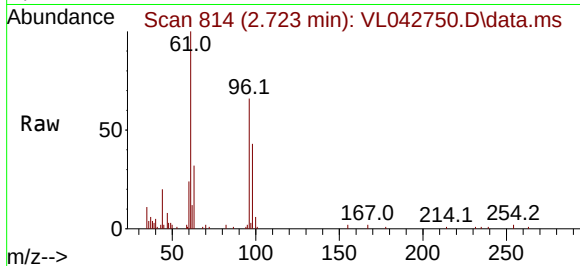




#31
 cis-1,2-Dichloroethene
 Concen: 0.529 ppbv
 RT: 2.723 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

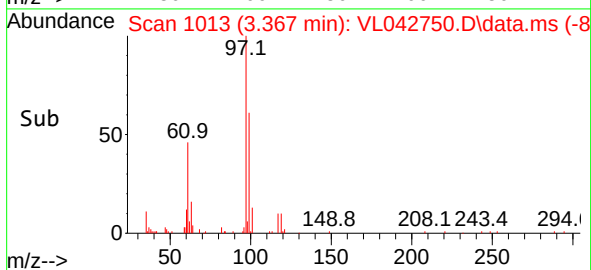
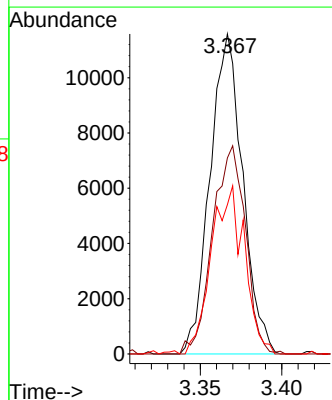
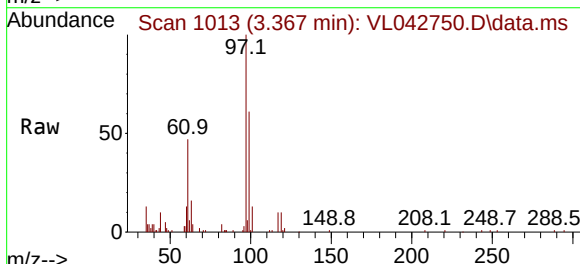
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

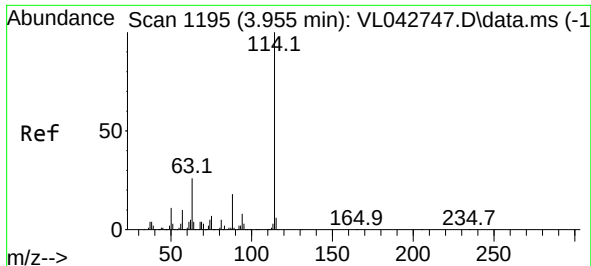
Tgt Ion: 61 Resp: 11032
 Ion Ratio Lower Upper
 61 100
 96 65.5 53.5 80.3
 98 42.6 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 0.494 ppbv
 RT: 3.367 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion: 97 Resp: 16132
 Ion Ratio Lower Upper
 97 100
 99 65.6 51.0 76.6
 61 53.8 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.5

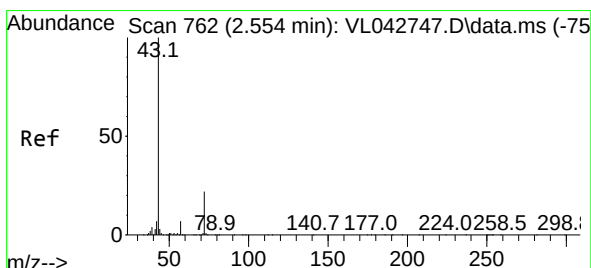
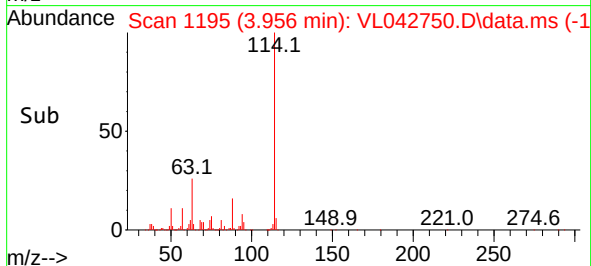
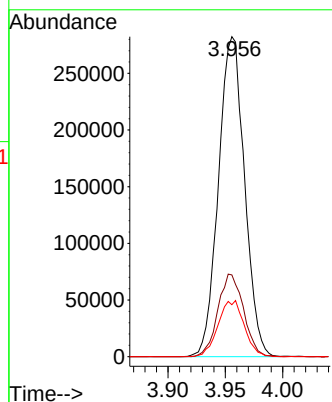
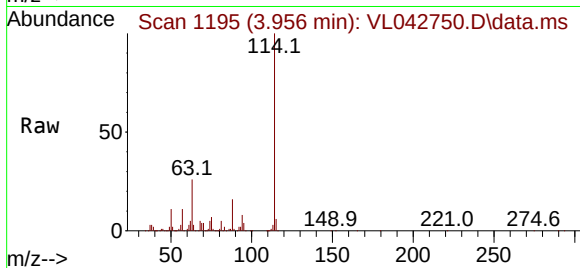
Tgt Ion:114 Resp: 446836

Ion Ratio Lower Upper

114 100

63 25.4 20.5 30.7

88 17.7 14.0 21.0



#34

2-Butanone

Concen: 0.515 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL042750.D

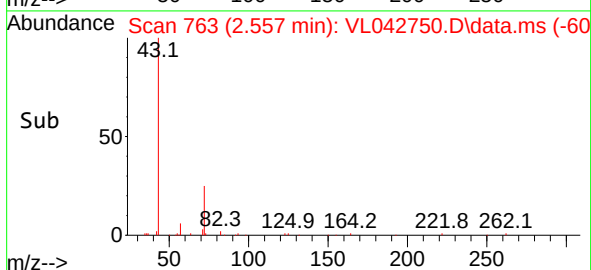
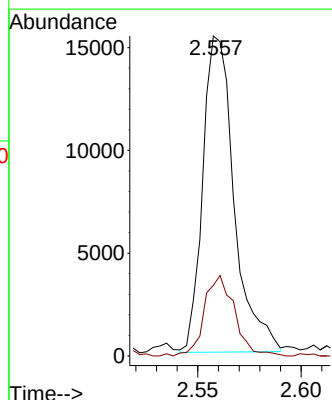
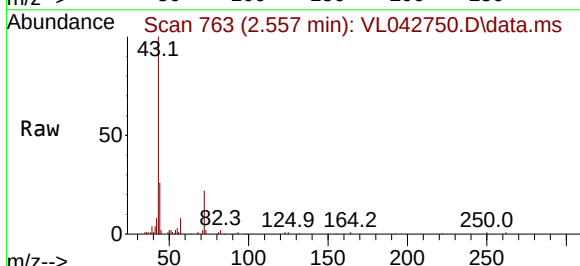
Acq: 23 Jul 2025 10:42

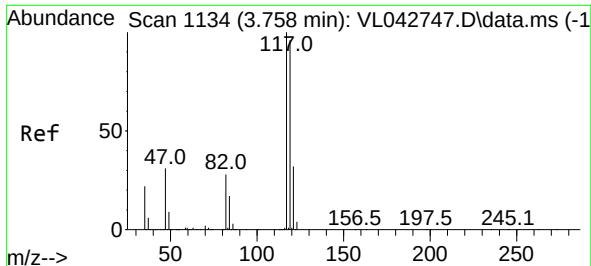
Tgt Ion: 43 Resp: 16299

Ion Ratio Lower Upper

43 100

72 24.6 17.4 26.0

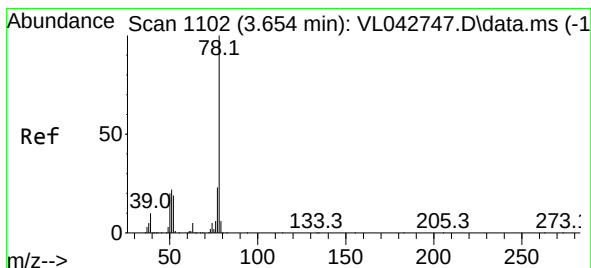
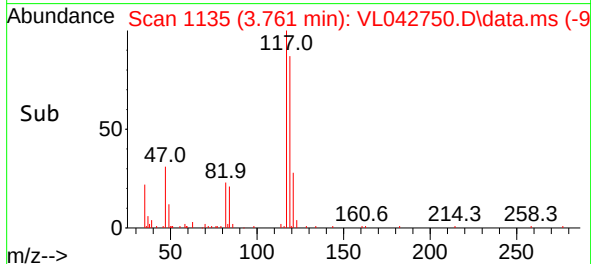
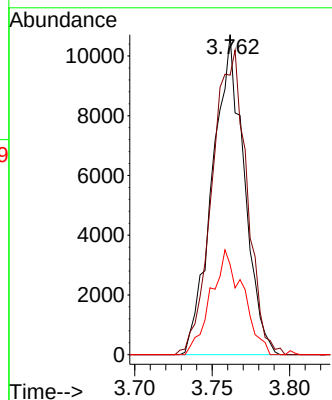
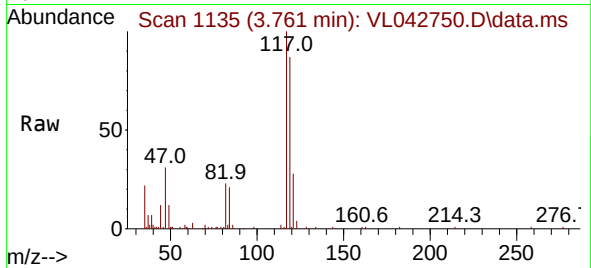




#35
Carbon Tetrachloride
Concen: 0.458 ppbv
RT: 3.761 min Scan# 1134
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

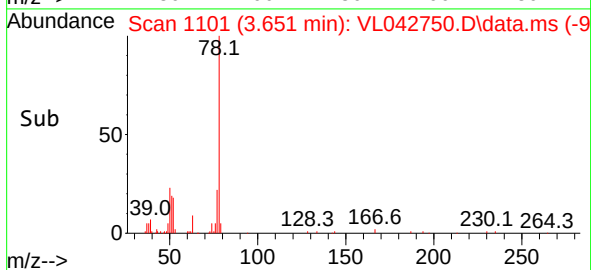
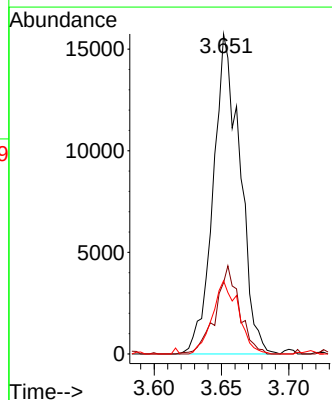
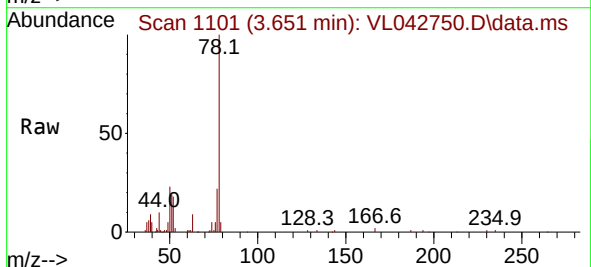
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

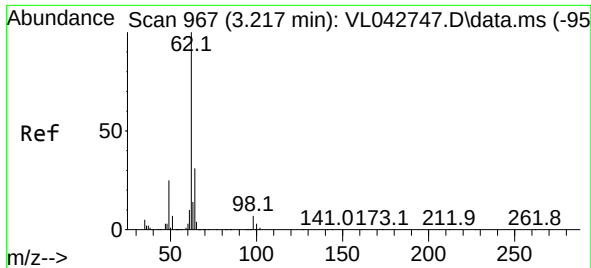
Tgt Ion:117 Resp: 15207
Ion Ratio Lower Upper
117 100
119 86.0 77.1 115.7
121 28.2 25.5 38.3



#36
Benzene
Concen: 0.515 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 78 Resp: 21800
Ion Ratio Lower Upper
78 100
77 22.3 18.5 27.7
50 22.8 16.2 24.2

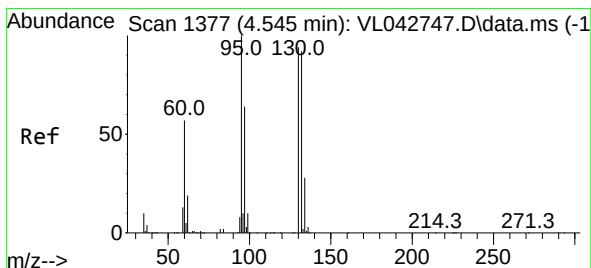
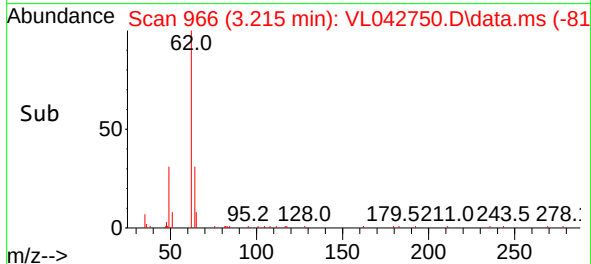
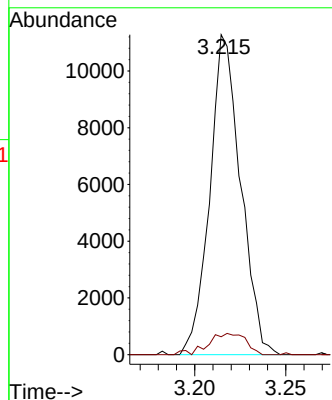
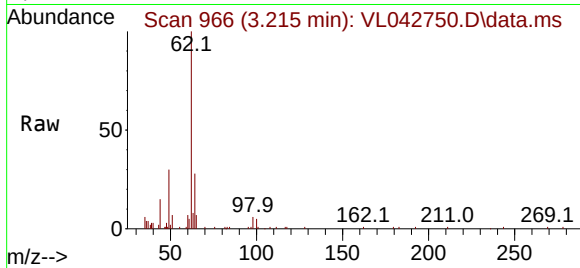




#37
1,2-Dichloroethane
Concen: 0.521 ppbv
RT: 3.215 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

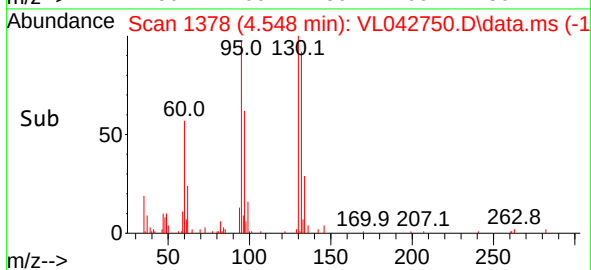
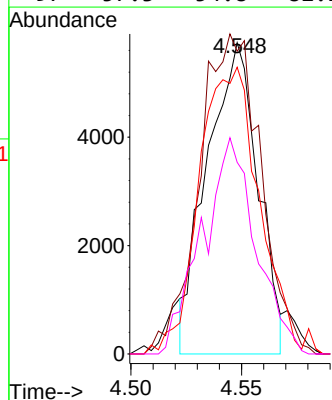
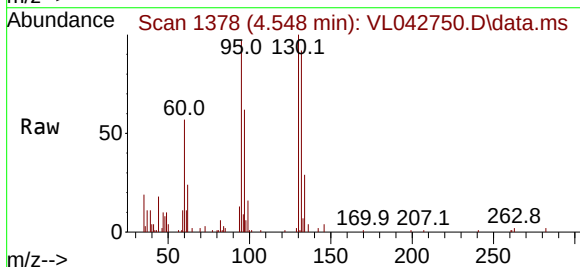
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

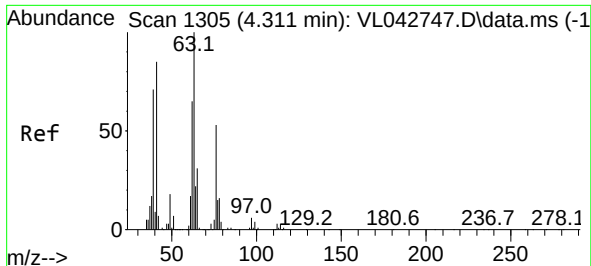
Tgt Ion: 62 Resp: 13299
Ion Ratio Lower Upper
62 100
98 8.3 5.2 7.8#



#38
Trichloroethene
Concen: 0.448 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:130 Resp: 9150
Ion Ratio Lower Upper
130 100
95 89.3 85.4 128.2
132 94.1 78.2 117.2
97 57.3 54.8 82.2





#39

1,2-Dichloropropane

Concen: 0.530 ppbv

RT: 4.312 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

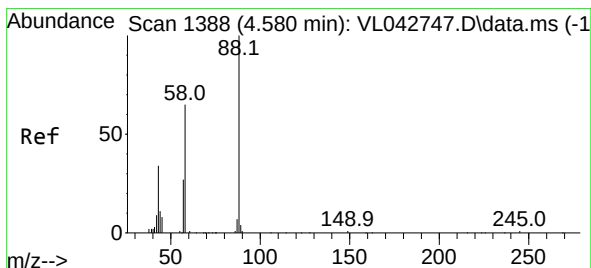
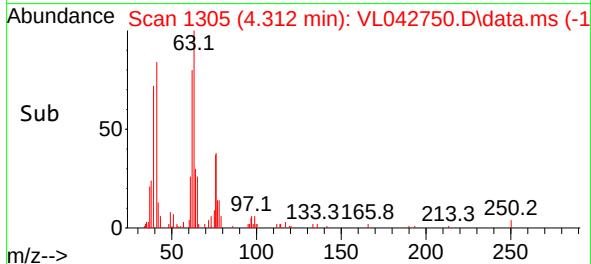
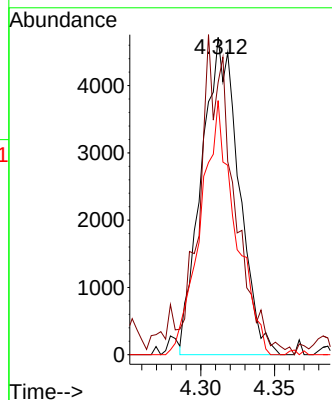
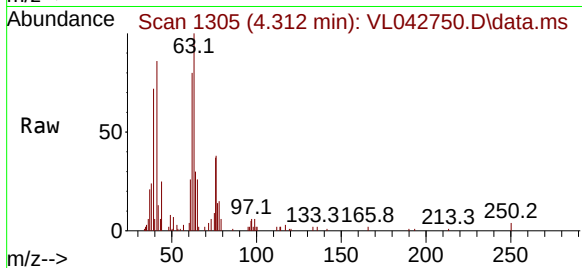
Tgt Ion: 63 Resp: 8291

Ion Ratio Lower Upper

63 100

41 83.1 68.2 102.4

62 80.1 52.0 78.0#



#40

1,4-Dioxane

Concen: 0.187 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.013 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Tgt Ion: 88 Resp: 1378

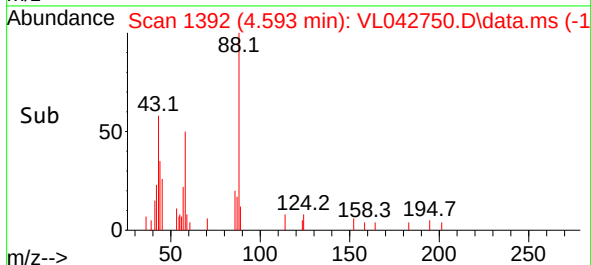
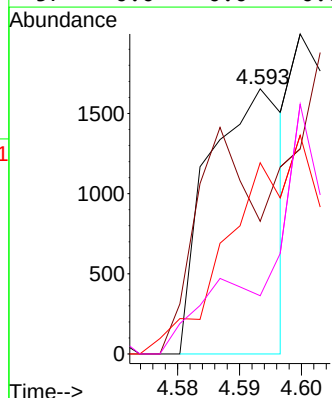
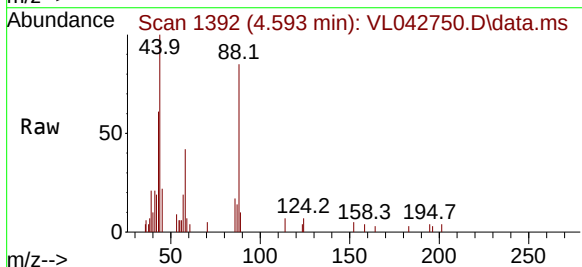
Ion Ratio Lower Upper

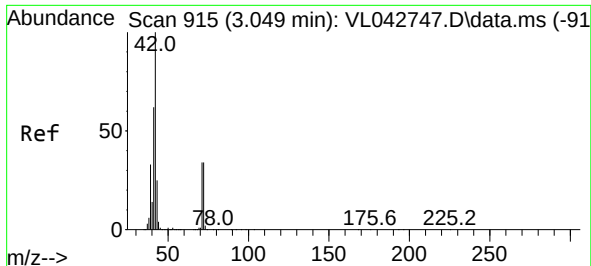
88 100

58 0.0 58.8 88.2#

43 0.0 28.9 43.3#

57 0.0 0.0 0.0

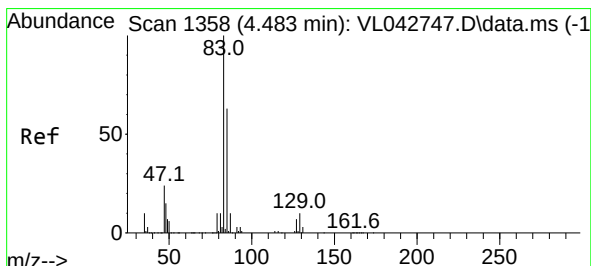
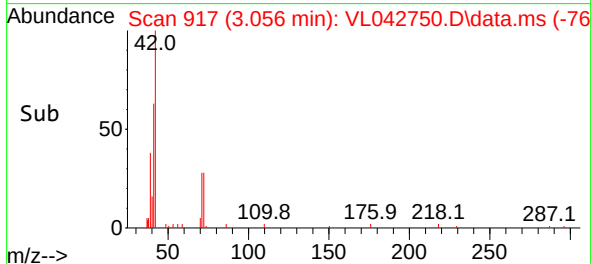
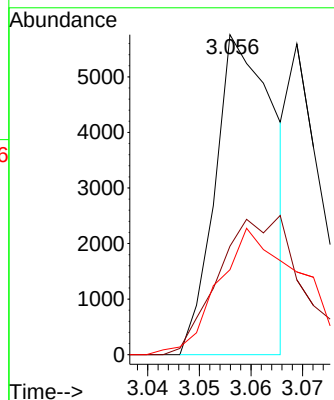
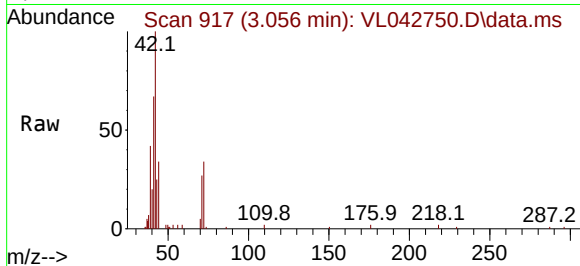




#41
Tetrahydrofuran
Concen: 0.289 ppbv
RT: 3.056 min Scan# 915
Delta R.T. 0.007 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

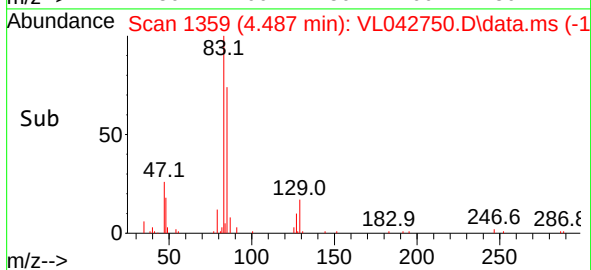
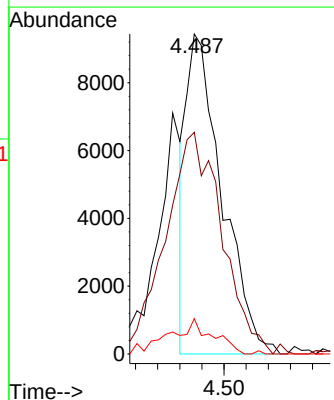
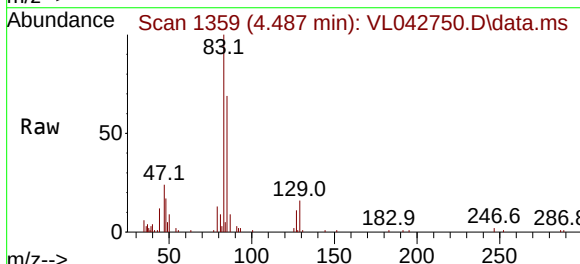
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

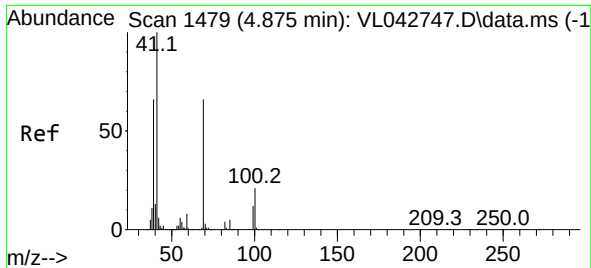
Tgt Ion: 42 Resp: 4590
Ion Ratio Lower Upper
42 100
72 0.0 30.9 46.3#
71 66.1 28.6 43.0#



#42
Bromodichloromethane
Concen: 0.318 ppbv
RT: 4.487 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 83 Resp: 10591
Ion Ratio Lower Upper
83 100
85 66.1 50.2 75.4
127 11.1 5.4 8.2#

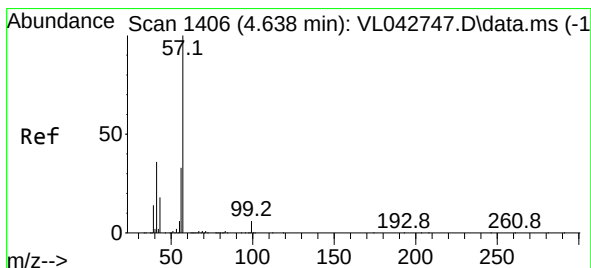
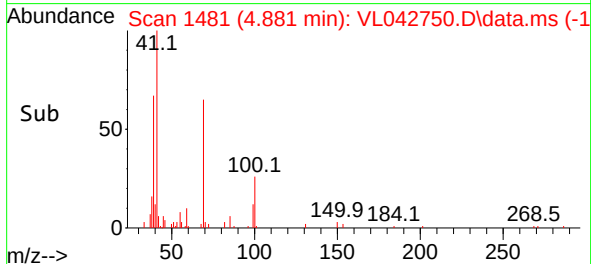
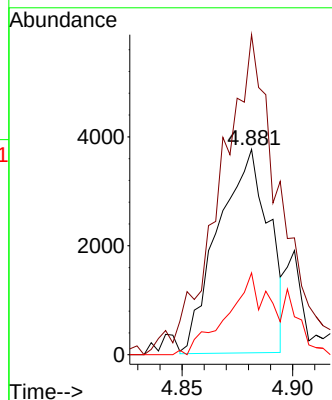
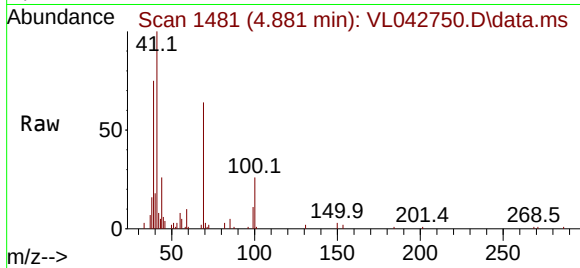




#43
Methyl Methacrylate
Concen: 0.394 ppbv
RT: 4.881 min Scan# 1479
Delta R.T. 0.007 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

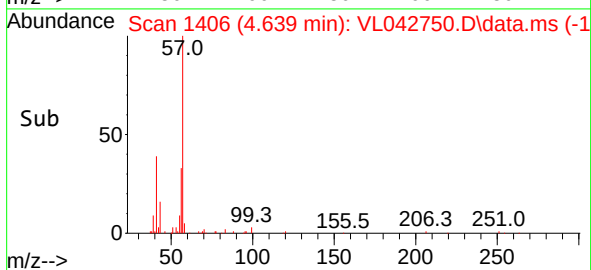
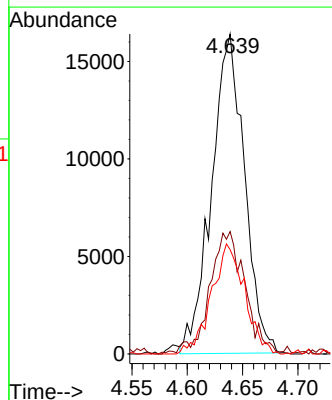
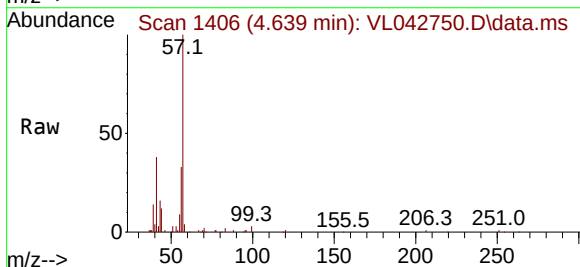
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

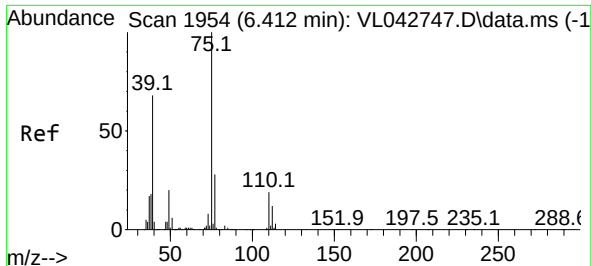
Tgt Ion: 69 Resp: 5938
Ion Ratio Lower Upper
69 100
41 186.9 125.7 188.5
100 44.0 28.6 42.8#



#44
2,2,4-Trimethylpentane
Concen: 0.490 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 57 Resp: 33853
Ion Ratio Lower Upper
57 100
41 41.3 28.3 42.5
56 34.7 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 0.342 ppbv

RT: 6.412 min Scan# 1954

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

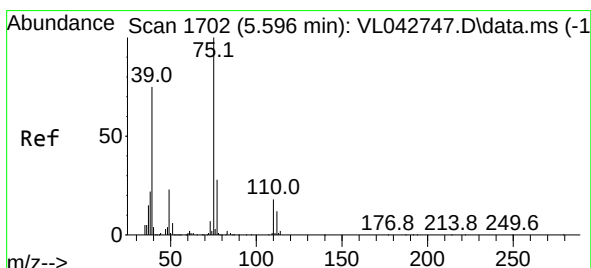
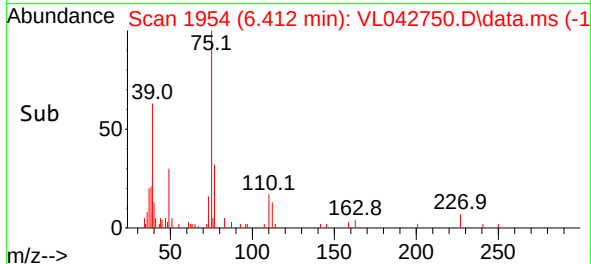
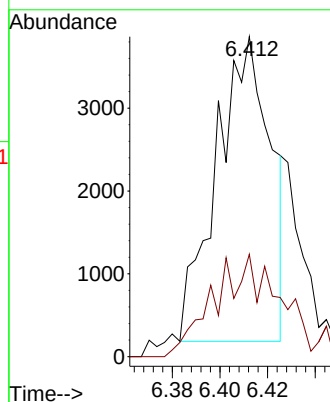
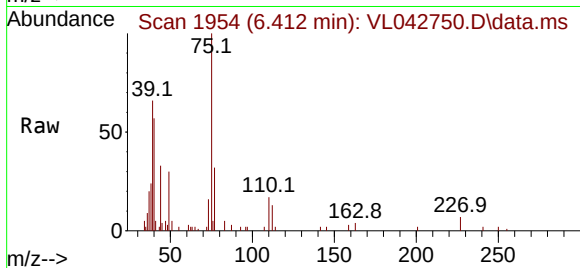
VSTDIC0.5

Tgt Ion: 75 Resp: 5781

Ion Ratio Lower Upper

75 100

77 32.0 22.4 33.6



#46

cis-1,3-Dichloropropene

Concen: 0.162 ppbv

RT: 5.587 min Scan# 1699

Delta R.T. -0.009 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

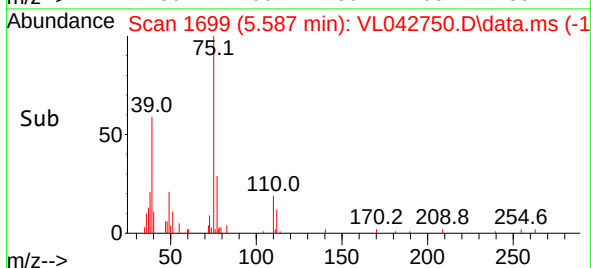
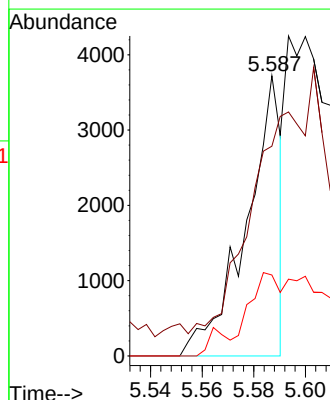
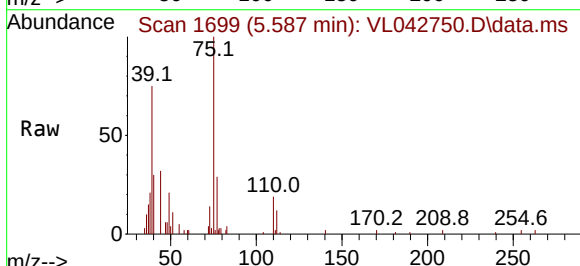
Tgt Ion: 75 Resp: 3465

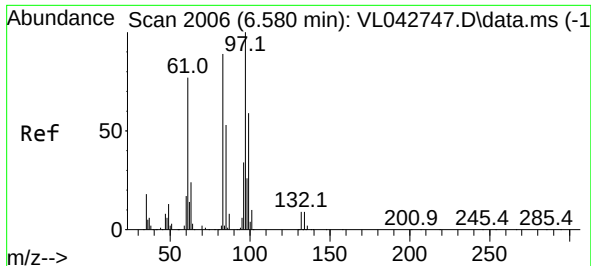
Ion Ratio Lower Upper

75 100

39 63.4 60.2 90.2

77 28.9 22.6 34.0





#47

1,1,2-Trichloroethane

Concen: 0.293 ppbv

RT: 6.584 min Scan# 2006

Delta R.T. 0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 4878

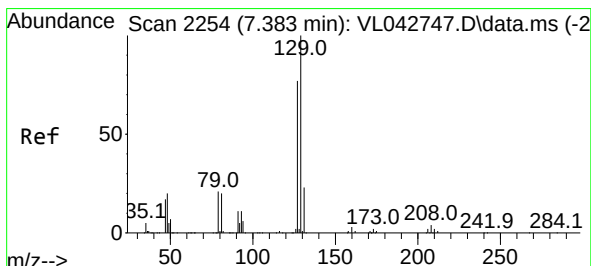
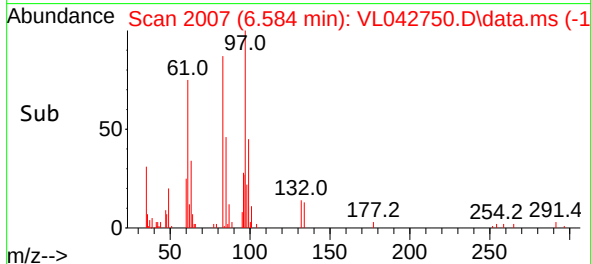
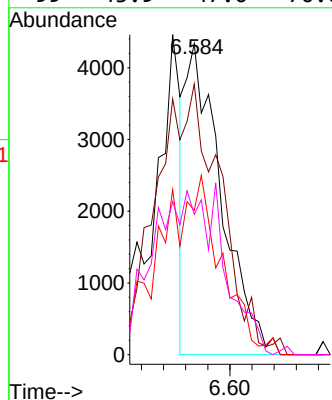
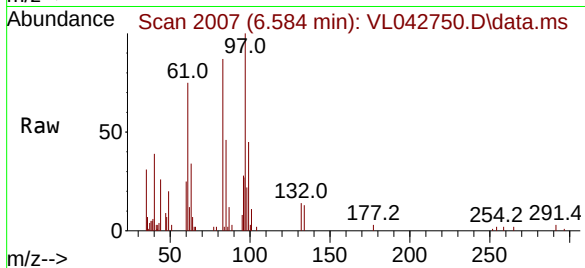
Ion Ratio Lower Upper

97 100

83 81.7 71.1 106.7

85 46.4 43.0 64.4

99 43.9 47.0 70.6#



#48

Dibromochloromethane

Concen: 0.322 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. 0.000 min

Lab File: VL042750.D

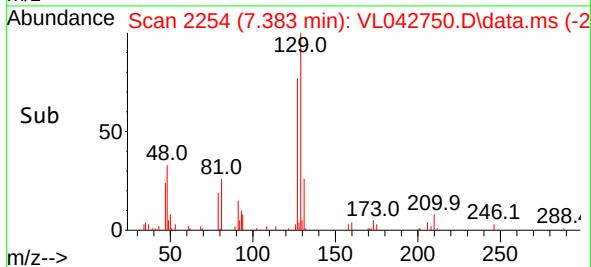
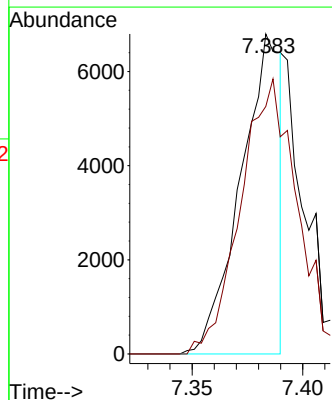
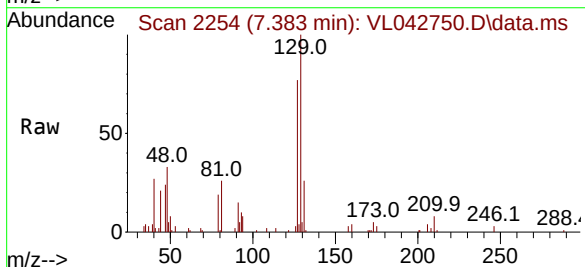
Acq: 23 Jul 2025 10:42

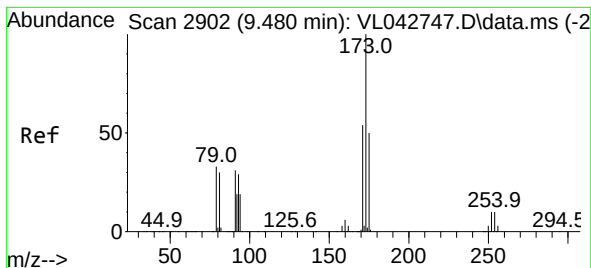
Tgt Ion: 129 Resp: 8515

Ion Ratio Lower Upper

129 100

127 121.6 38.7 116.1#





#49

Bromoform

Concen: 0.468 ppbv

RT: 9.481 min Scan# 2902

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

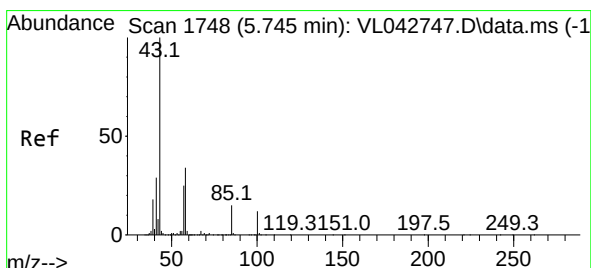
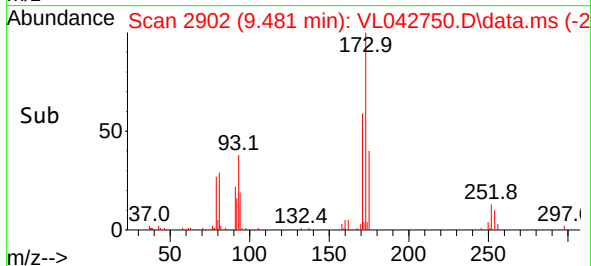
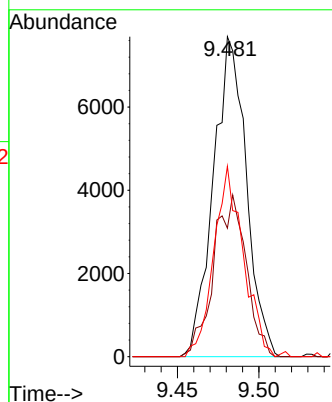
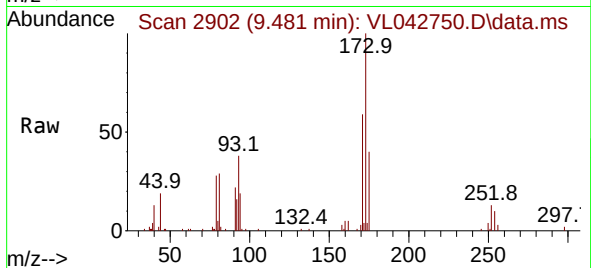
Tgt Ion:173 Resp: 10801

Ion Ratio Lower Upper

173 100

175 50.1 38.4 57.6

171 53.7 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 0.142 ppbv

RT: 5.752 min Scan# 1750

Delta R.T. 0.007 min

Lab File: VL042750.D

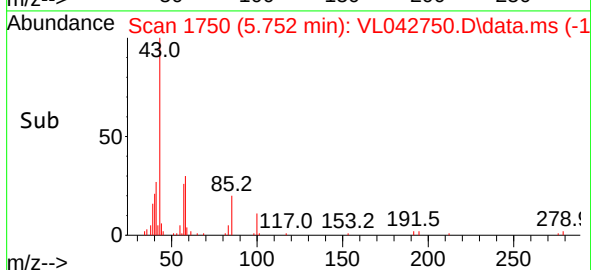
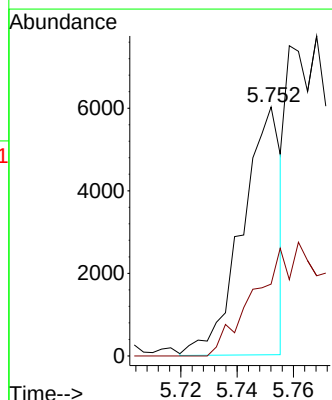
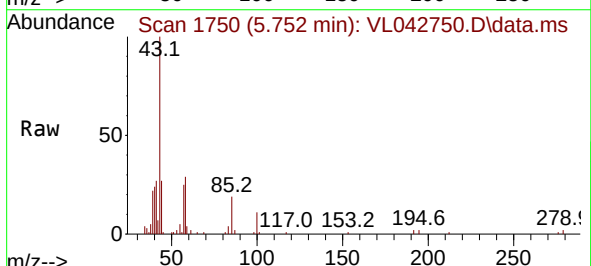
Acq: 23 Jul 2025 10:42

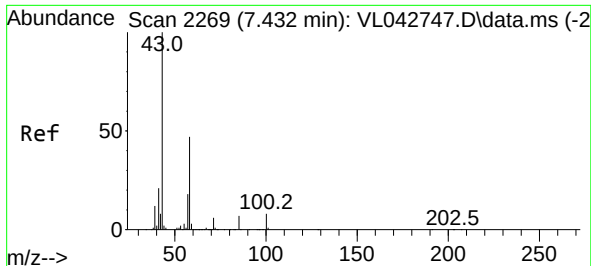
Tgt Ion: 43 Resp: 5736

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.8#

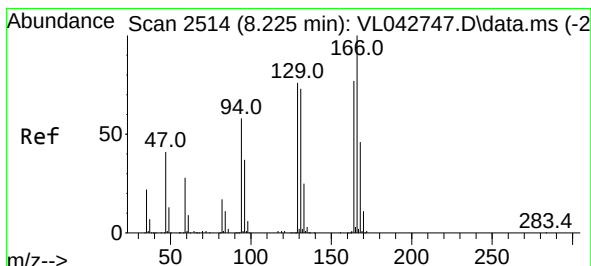
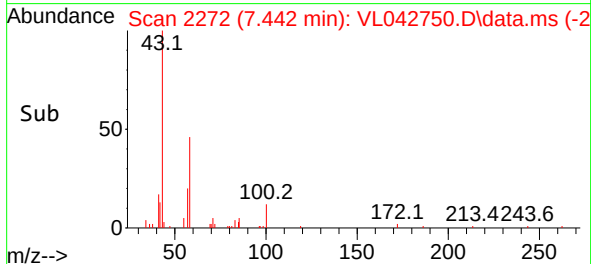
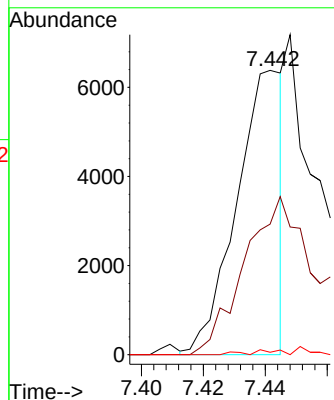
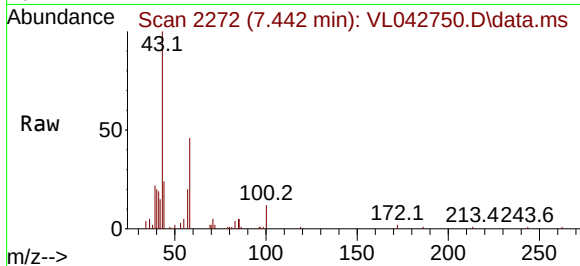




#51
2-Hexanone
Concen: 0.213 ppbv
RT: 7.442 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

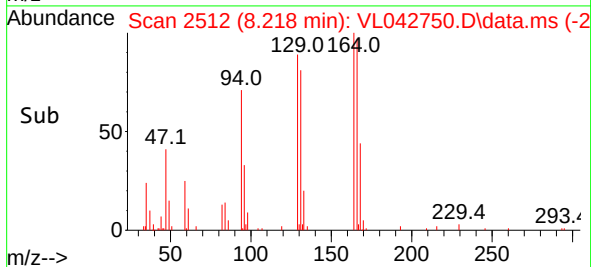
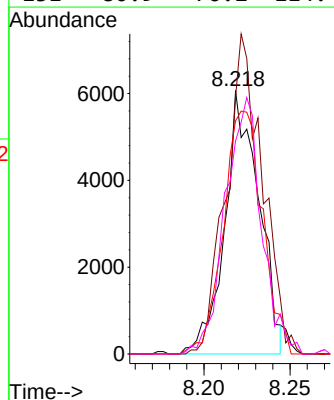
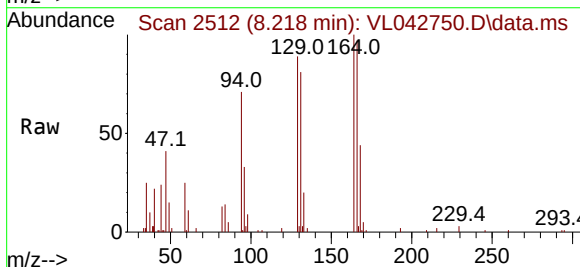
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

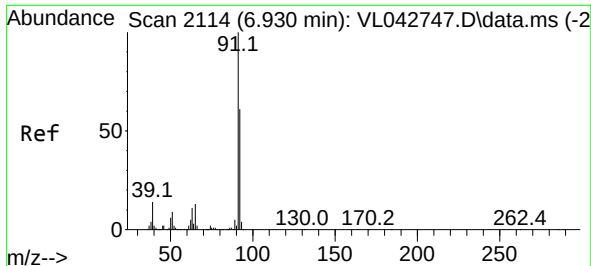
Tgt Ion: 43 Resp: 6572
Ion Ratio Lower Upper
43 100
58 0.0 38.0 57.0#
98 0.0 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.475 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 164 Resp: 8359
Ion Ratio Lower Upper
164 100
166 97.5 104.0 156.0#
129 88.5 79.2 118.8
131 80.9 76.2 114.4

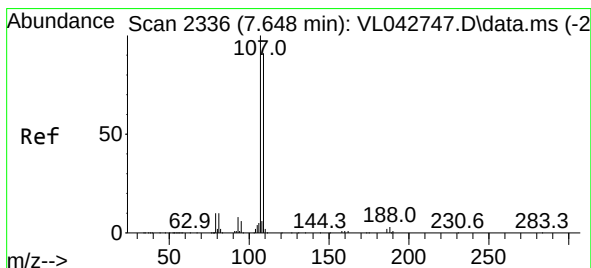
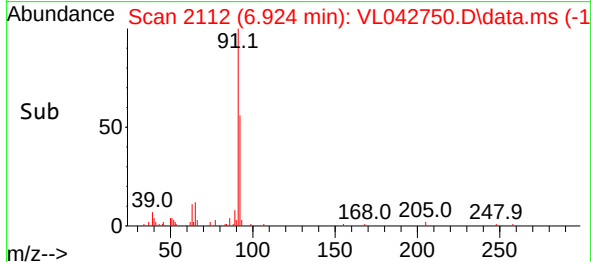
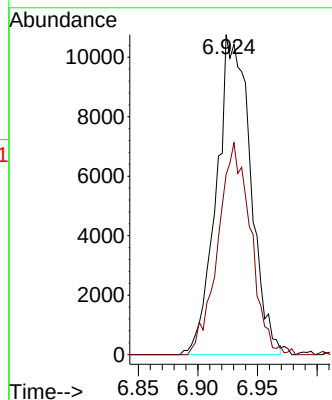
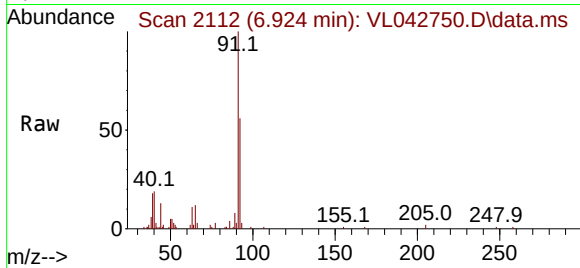




#53
Toluene
Concen: 0.469 ppbv
RT: 6.924 min Scan# 2112
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

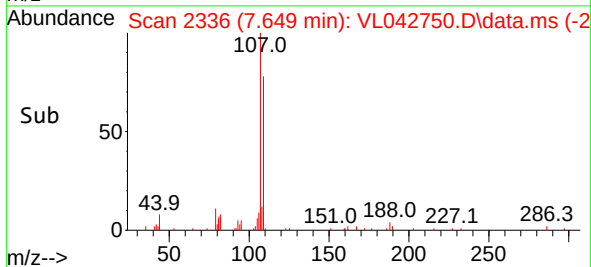
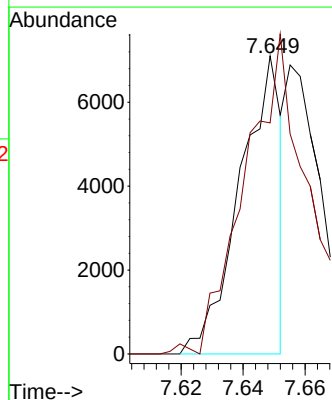
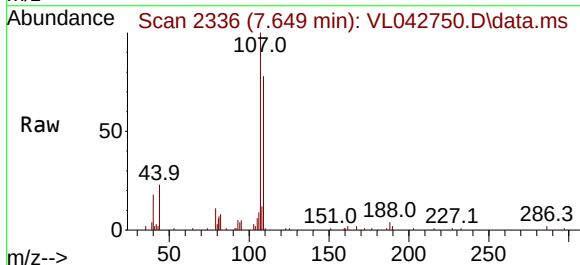
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

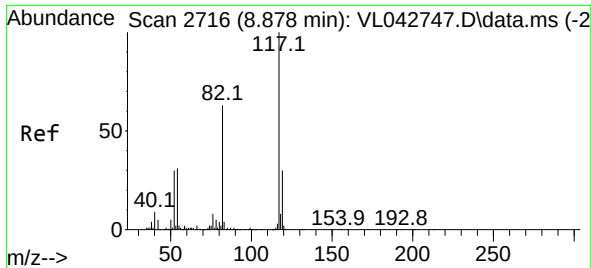
Tgt Ion: 91 Resp: 21324
Ion Ratio Lower Upper
91 100
92 63.9 48.0 72.0



#54
1,2-Dibromoethane
Concen: 0.277 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 107 Resp: 6536
Ion Ratio Lower Upper
107 100
109 74.1 72.7 109.1

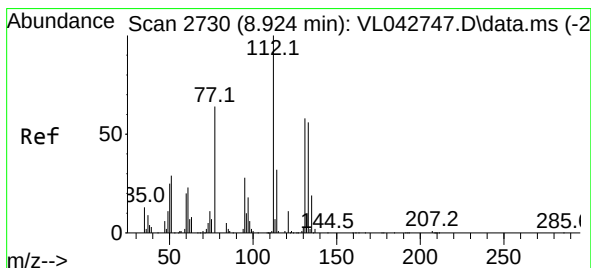
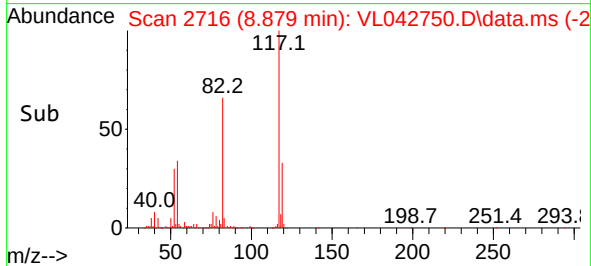
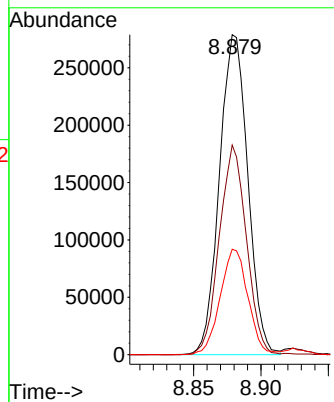
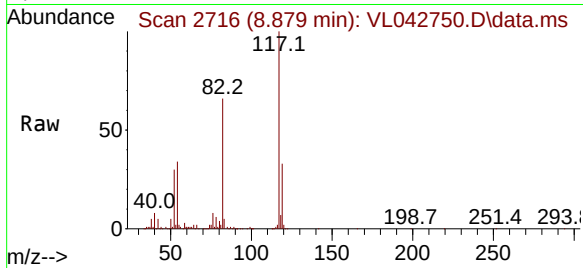




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

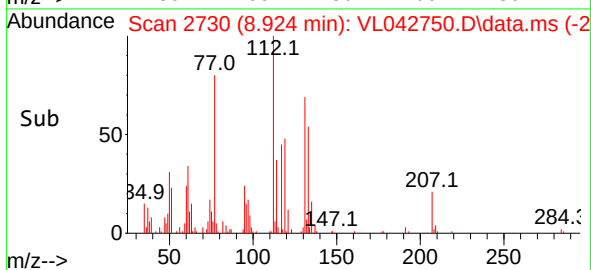
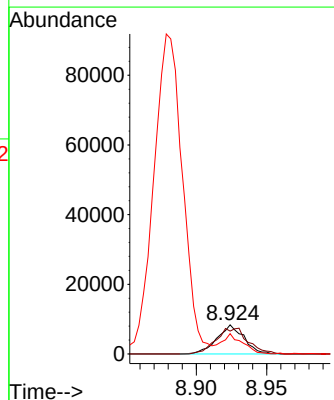
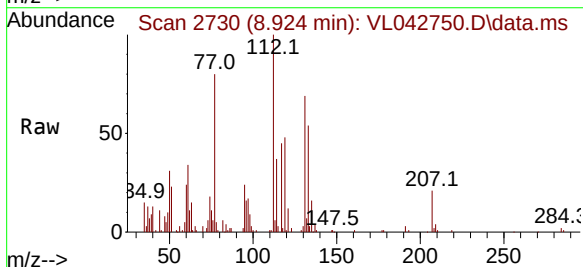
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

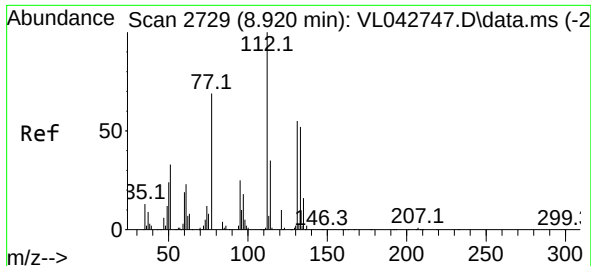
Tgt Ion:117 Resp: 408626
Ion Ratio Lower Upper
117 100
82 62.7 53.3 79.9
119 32.3 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 0.527 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:131 Resp: 11191
Ion Ratio Lower Upper
131 100
133 104.0 76.8 115.2
119 1231.3 49.7 74.5#





#57

Chlorobenzene

Concen: 0.527 ppbv

RT: 8.921 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

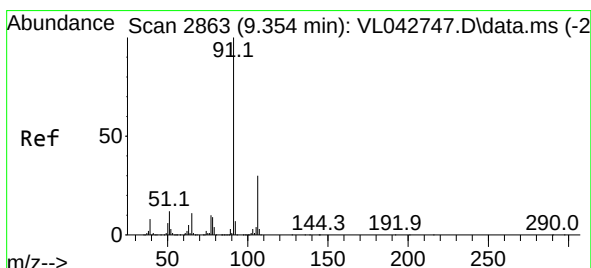
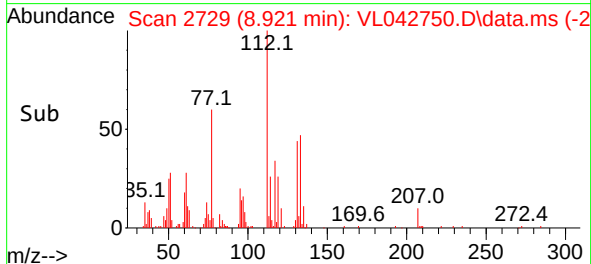
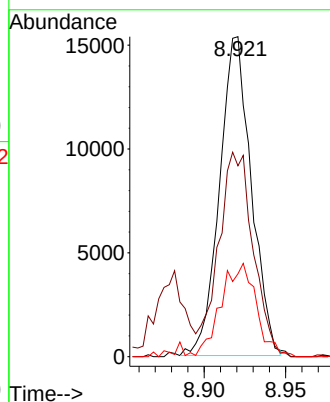
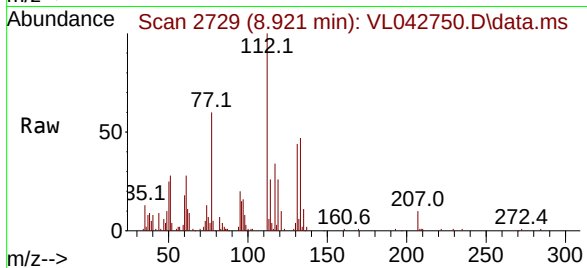
Tgt Ion:112 Resp: 20828

Ion Ratio Lower Upper

112 100

77 58.4 56.4 84.6

114 23.8 31.2 38.2#



#58

Ethyl Benzene

Concen: 0.451 ppbv

RT: 9.354 min Scan# 2863

Delta R.T. 0.000 min

Lab File: VL042750.D

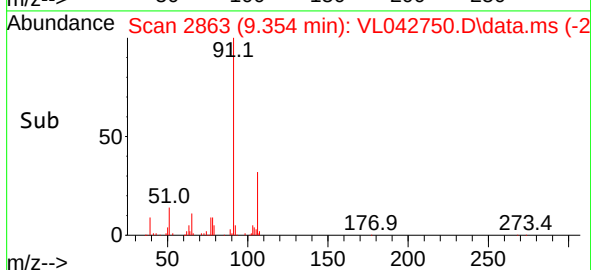
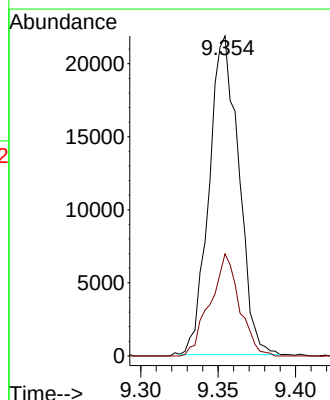
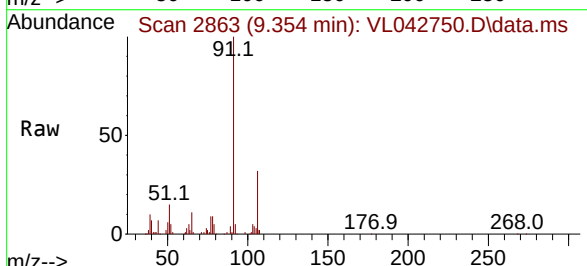
Acq: 23 Jul 2025 10:42

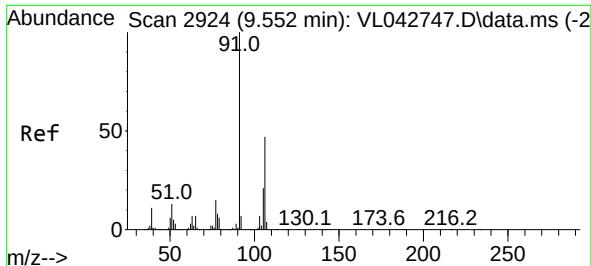
Tgt Ion: 91 Resp: 29134

Ion Ratio Lower Upper

91 100

106 32.0 23.8 35.6





#59

m/p-Xylene

Concen: 0.332 ppbv

RT: 9.549 min Scan# 2924

Delta R.T. -0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

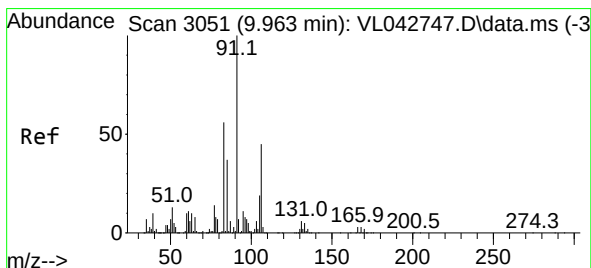
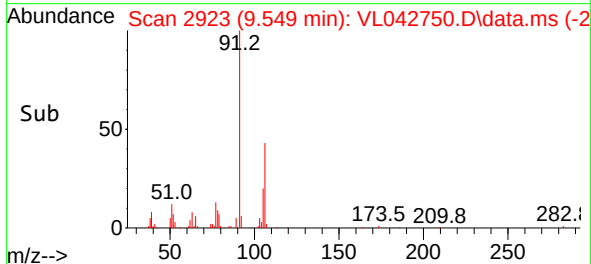
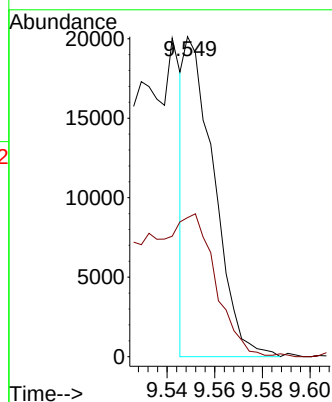
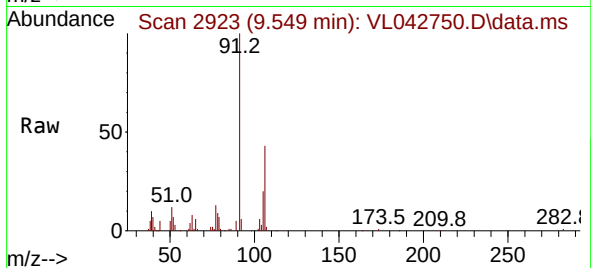
VSTDIC0.5

Tgt Ion: 91 Resp: 17145

Ion Ratio Lower Upper

91 100

106 123.2 37.4 56.2#



#60

o-Xylene

Concen: 0.458 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042750.D

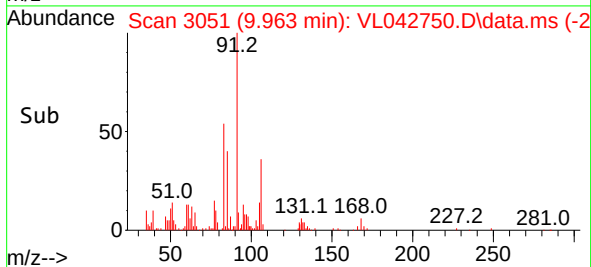
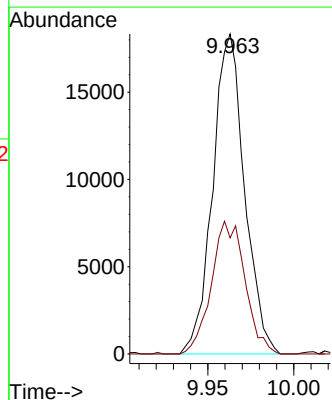
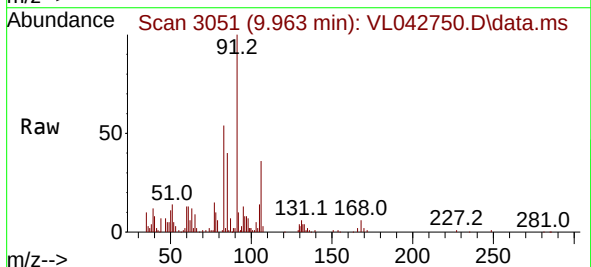
Acq: 23 Jul 2025 10:42

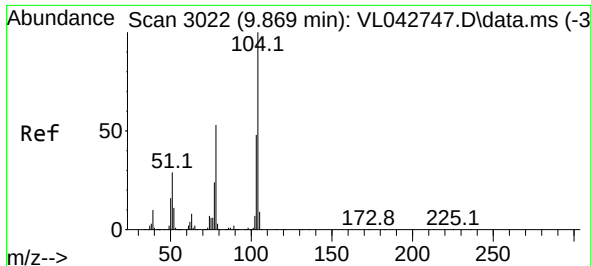
Tgt Ion: 91 Resp: 23603

Ion Ratio Lower Upper

91 100

106 43.8 22.0 66.0





#61

Styrene

Concen: 0.424 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

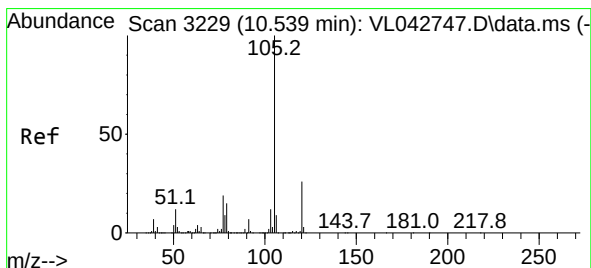
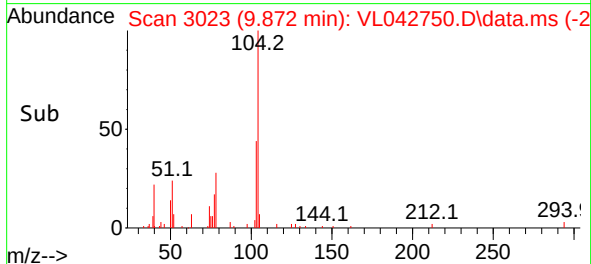
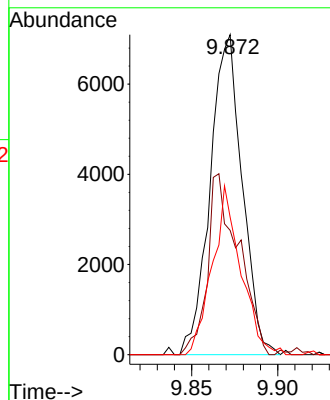
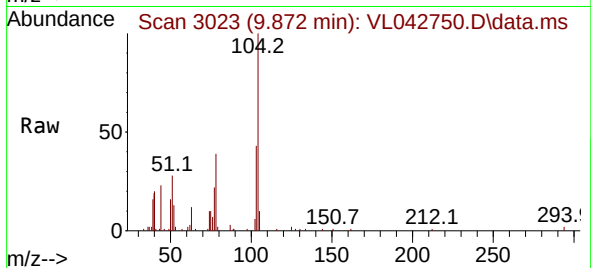
Tgt Ion:104 Resp: 9195

Ion Ratio Lower Upper

104 100

78 55.8 41.5 62.3

103 47.0 37.5 56.3



#62

Isopropylbenzene

Concen: 0.463 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. 0.000 min

Lab File: VL042750.D

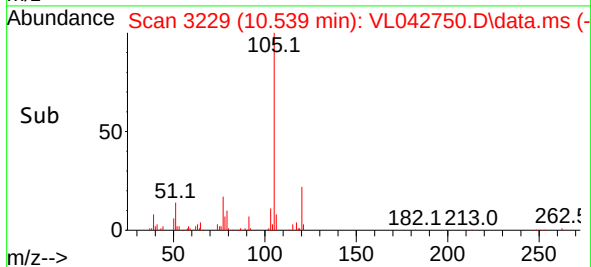
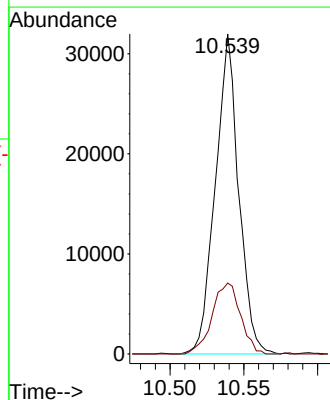
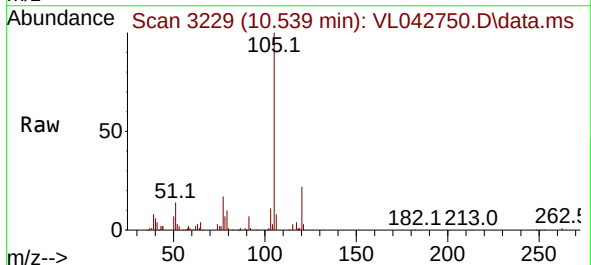
Acq: 23 Jul 2025 10:42

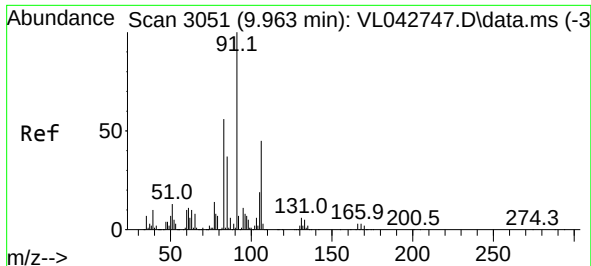
Tgt Ion:105 Resp: 35189

Ion Ratio Lower Upper

105 100

120 26.9 20.5 30.7

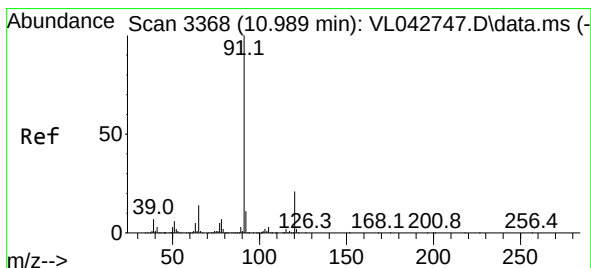
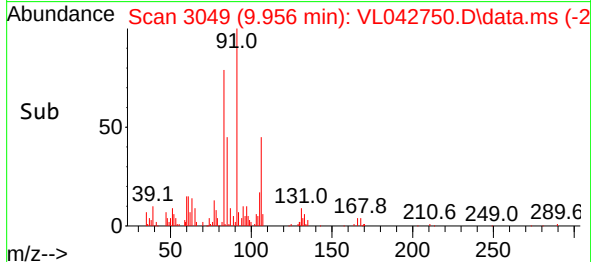
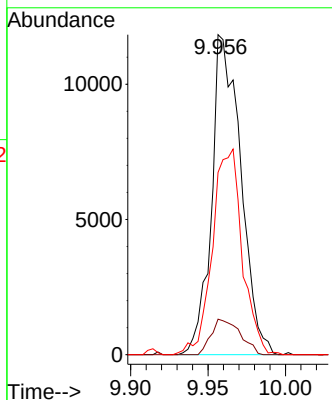
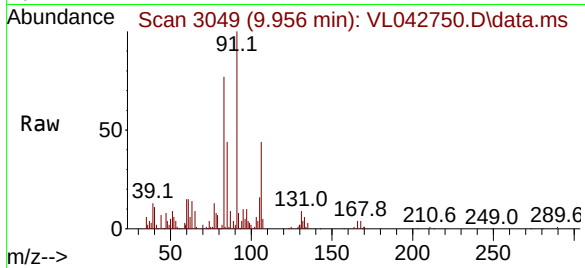




#63
1,1,2,2-Tetrachloroethane
Concen: 0.463 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.006 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

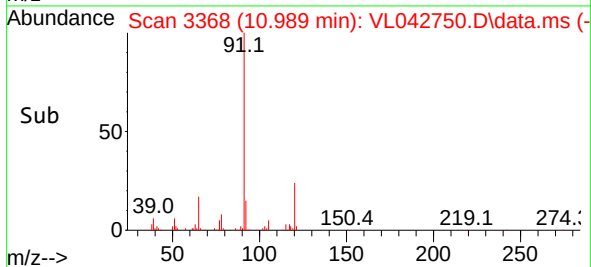
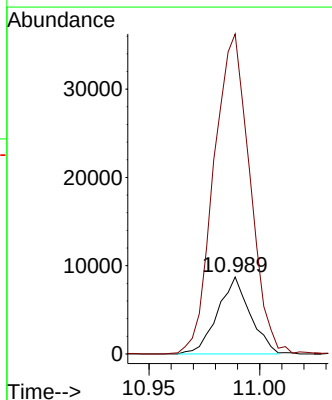
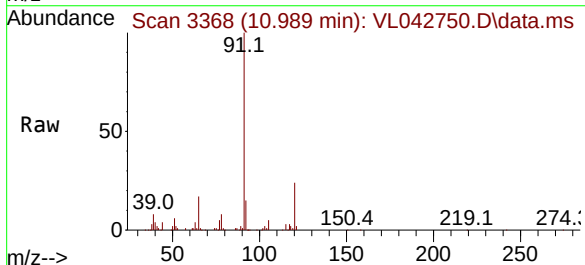
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

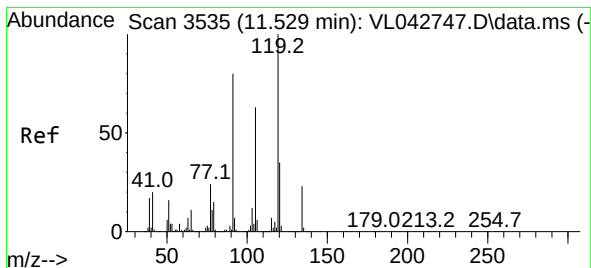
Tgt Ion: 83 Resp: 15544
Ion Ratio Lower Upper
83 100
131 11.0 5.0 15.0
85 66.1 32.6 97.7



#64
n-propylbenzene
Concen: 0.450 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 120 Resp: 8924
Ion Ratio Lower Upper
120 100
91 464.1 372.7 559.1





#65

tert-Butylbenzene

Concen: 0.453 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

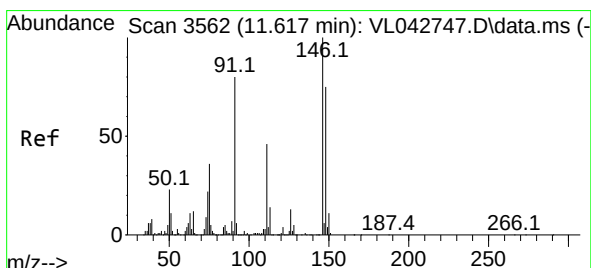
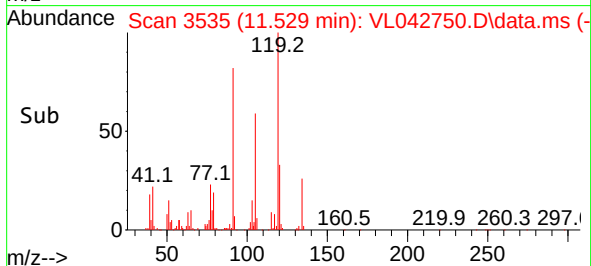
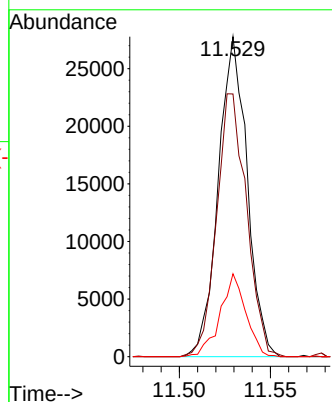
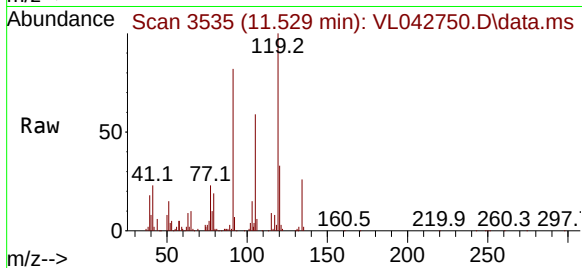
Tgt Ion:119 Resp: 30560

Ion Ratio Lower Upper

119 100

91 85.1 64.0 96.0

134 23.1 17.3 25.9



#66

Benzyl Chloride

Concen: 0.152 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.009 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

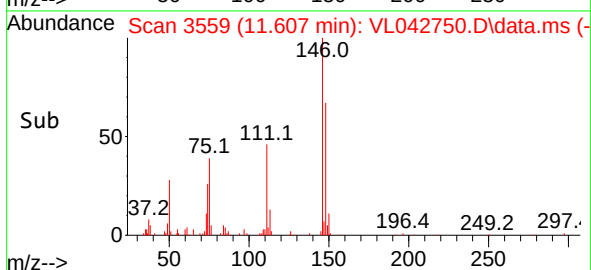
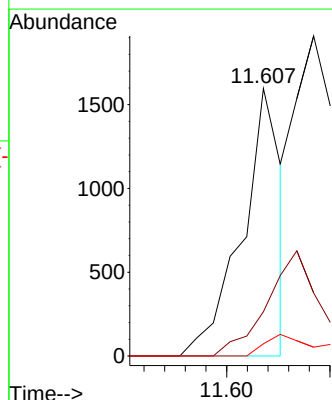
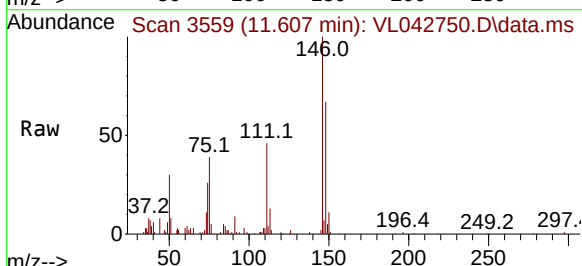
Tgt Ion: 91 Resp: 845

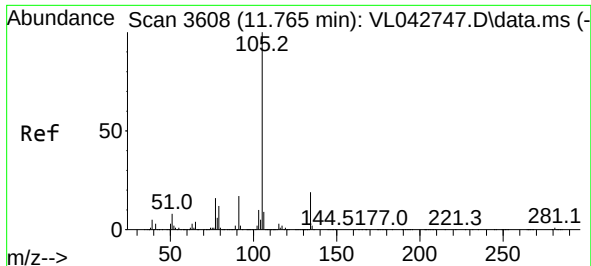
Ion Ratio Lower Upper

91 100

126 57.4 14.4 21.6#

128 15.5 5.2 7.8#

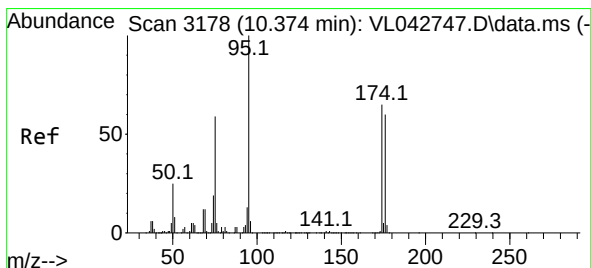
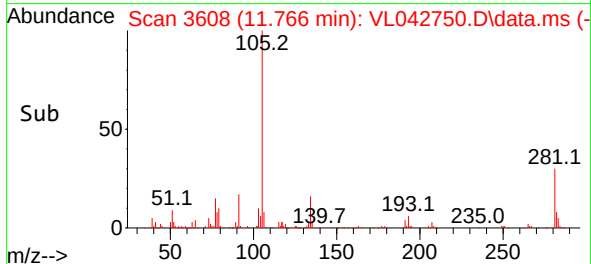
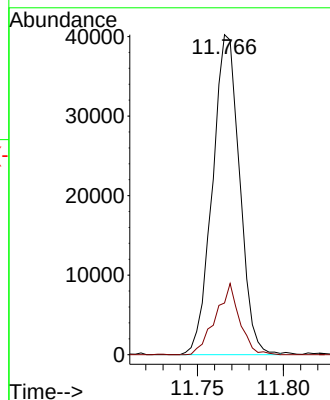
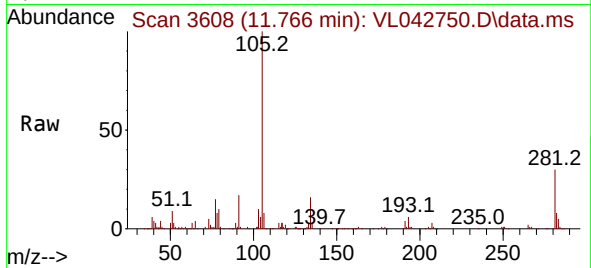




#67
 sec-Butylbenzene
 Concen: 0.460 ppbv
 RT: 11.766 min Scan# 3608
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

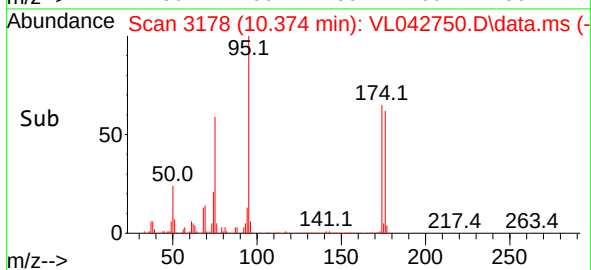
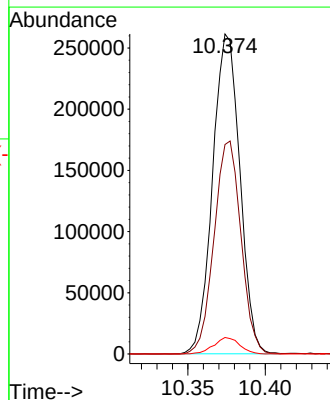
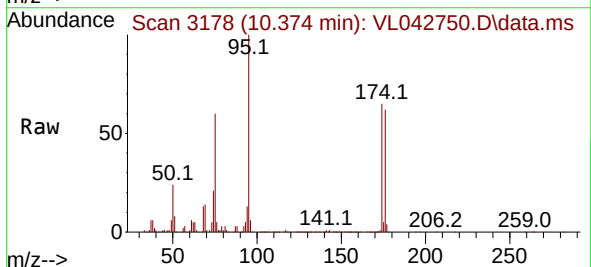
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

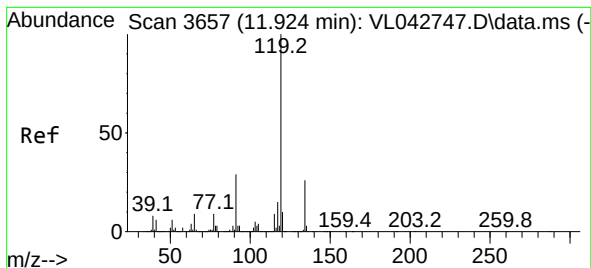
Tgt Ion:105 Resp: 44169
 Ion Ratio Lower Upper
 105 100
 134 19.6 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.869 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion: 95 Resp: 319353
 Ion Ratio Lower Upper
 95 100
 174 65.8 53.8 80.6
 175 4.9 4.0 6.0

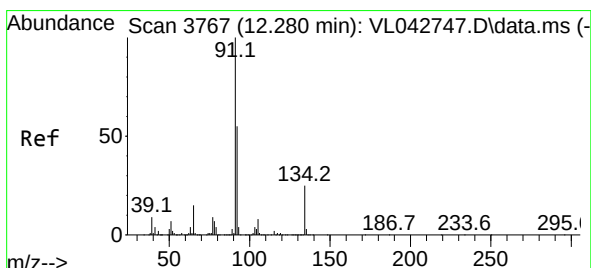
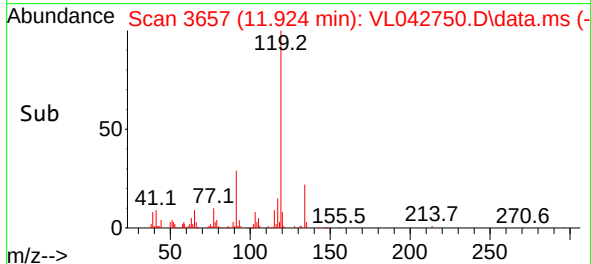
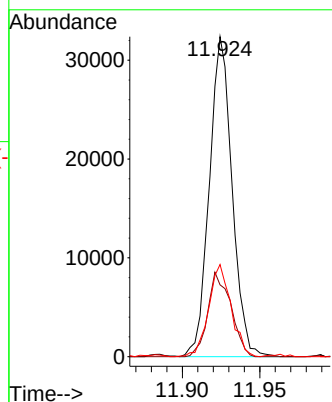
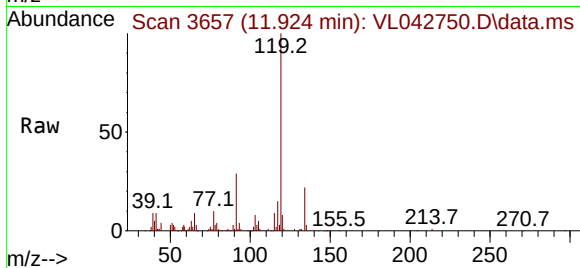




#69
 p-Isopropyltoluene
 Concen: 0.423 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

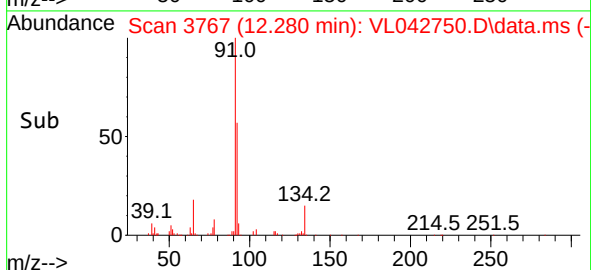
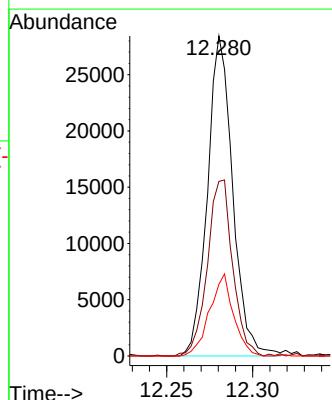
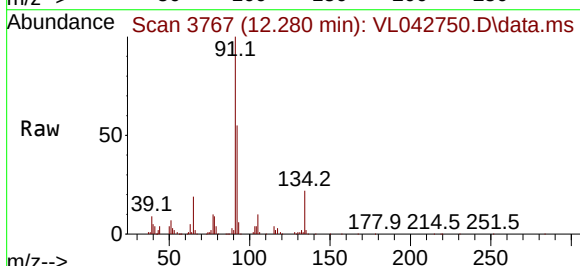
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

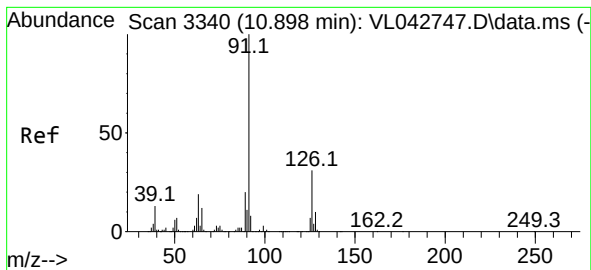
Tgt Ion:119 Resp: 33104
 Ion Ratio Lower Upper
 119 100
 134 26.8 20.6 31.0
 91 28.8 23.2 34.8



#70
 n-Butylbenzene
 Concen: 0.384 ppbv
 RT: 12.280 min Scan# 3767
 Delta R.T. 0.000 min
 Lab File: VL042750.D
 Acq: 23 Jul 2025 10:42

Tgt Ion: 91 Resp: 29048
 Ion Ratio Lower Upper
 91 100
 92 55.5 43.4 65.2
 134 24.3 19.6 29.4

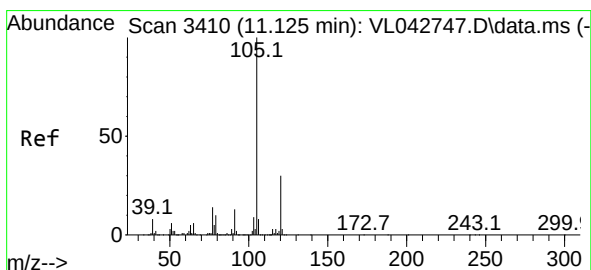
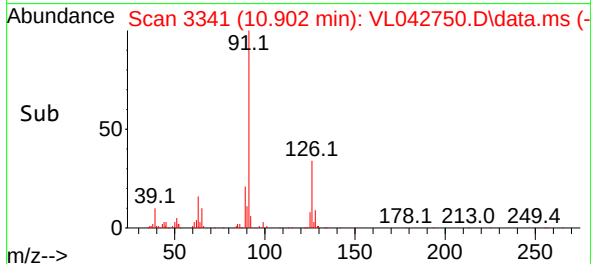
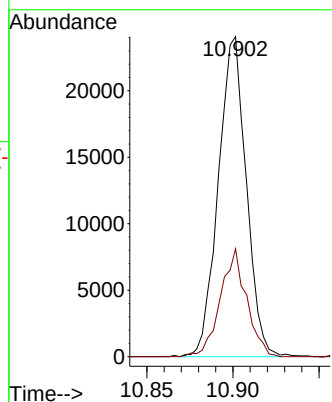
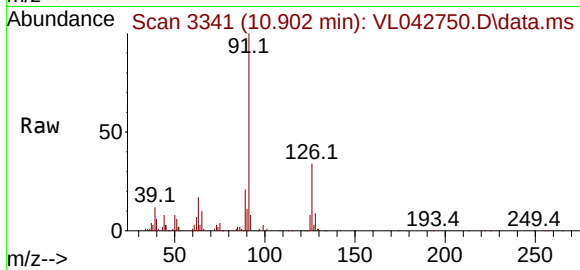




#71
2-Chlorotoluene
Concen: 0.466 ppbv
RT: 10.902 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

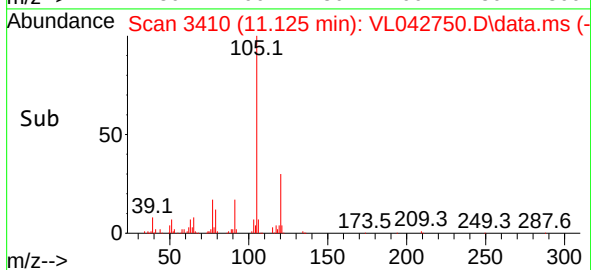
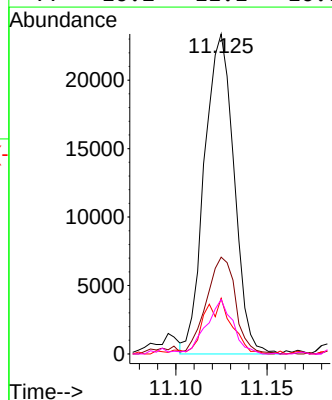
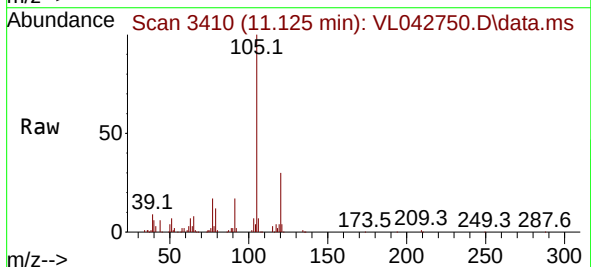
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

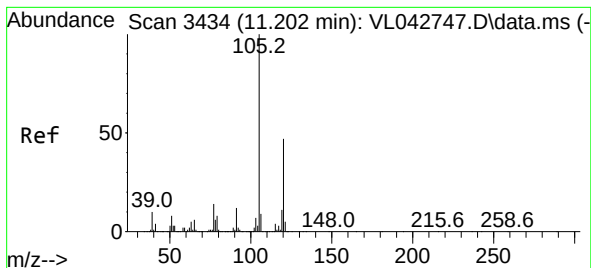
Tgt Ion: 91 Resp: 27184
Ion Ratio Lower Upper
91 100
126 31.7 12.0 48.2



#72
4-Ethyltoluene
Concen: 0.429 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion: 105 Resp: 26395
Ion Ratio Lower Upper
105 100
120 31.6 24.4 36.6
91 17.0 10.6 15.8#
77 16.2 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.442 ppbv

RT: 11.206 min Scan# 3434

Delta R.T. 0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

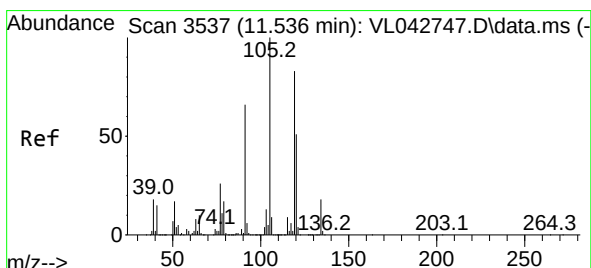
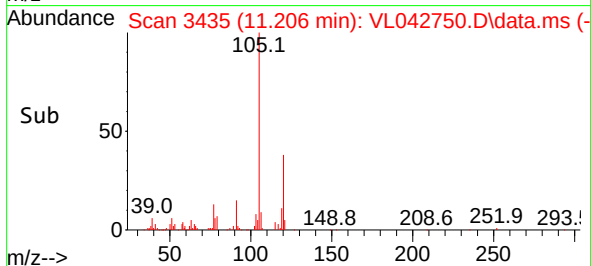
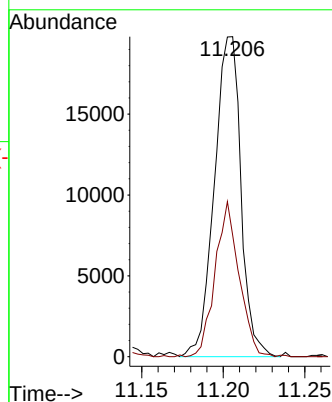
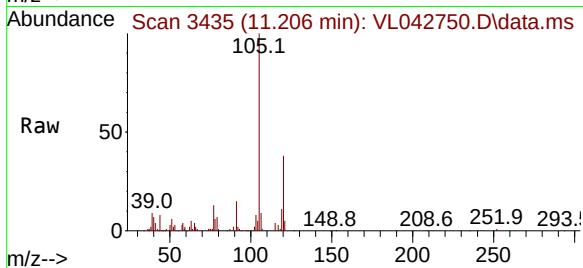
VSTDIC0.5

Tgt Ion:105 Resp: 22392

Ion Ratio Lower Upper

105 100

120 37.5 37.8 56.8#



#74

1,2,4-Trimethylbenzene

Concen: 0.412 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Tgt Ion:105 Resp: 22772

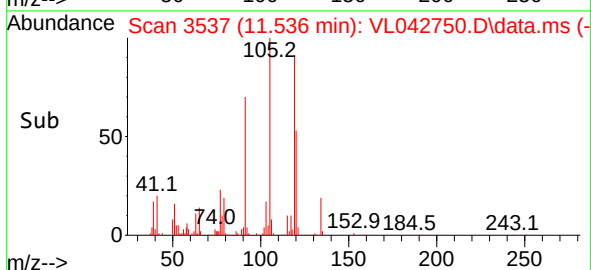
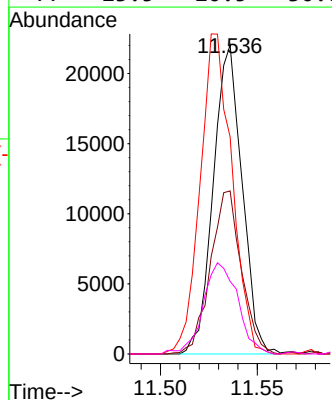
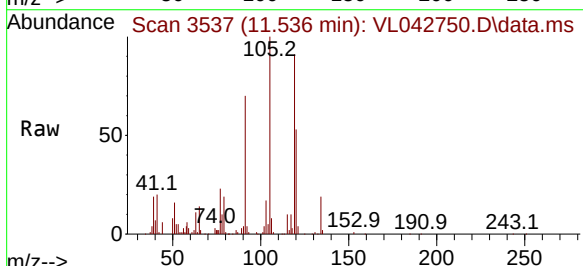
Ion Ratio Lower Upper

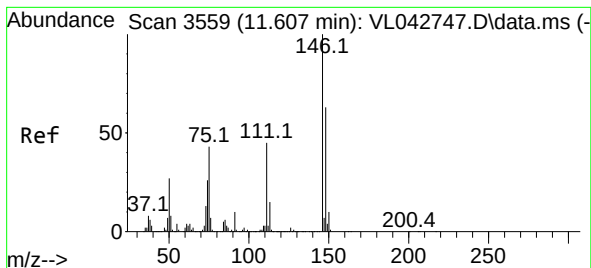
105 100

120 52.7 40.8 61.2

91 70.3 53.0 79.4

77 23.5 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 0.482 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. 0.000 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.5

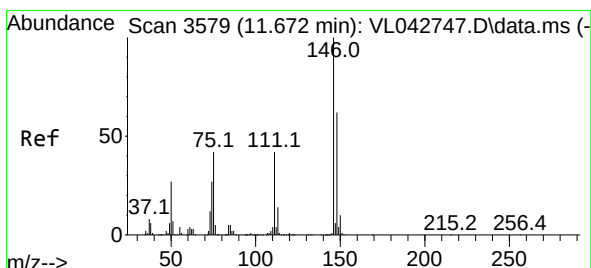
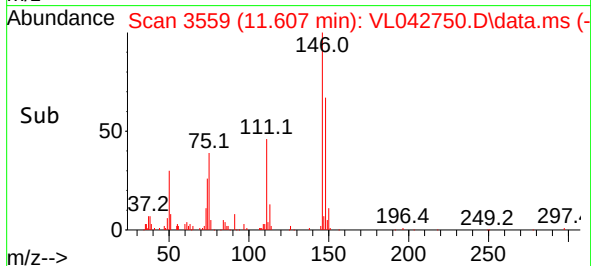
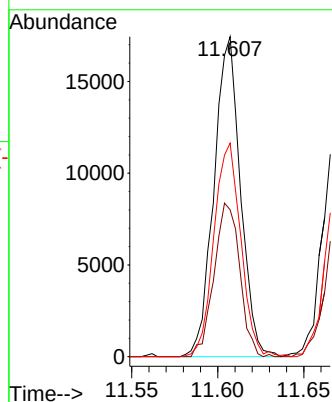
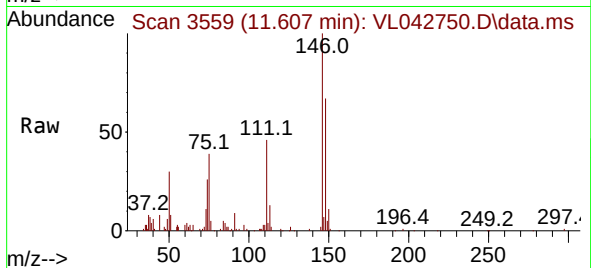
Tgt Ion:146 Resp: 18680

Ion Ratio Lower Upper

146 100

111 46.6 22.7 68.0

148 67.7 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 0.465 ppbv

RT: 11.669 min Scan# 3578

Delta R.T. -0.003 min

Lab File: VL042750.D

Acq: 23 Jul 2025 10:42

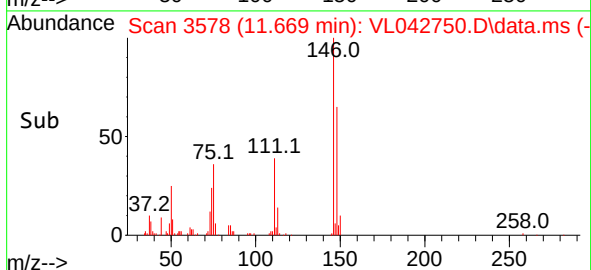
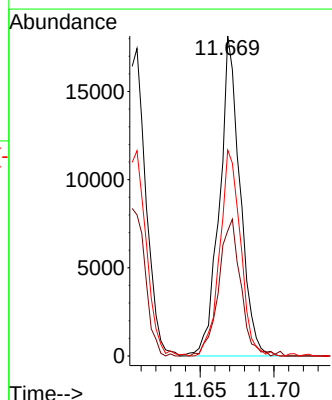
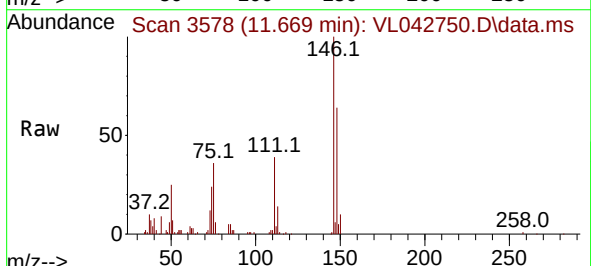
Tgt Ion:146 Resp: 17616

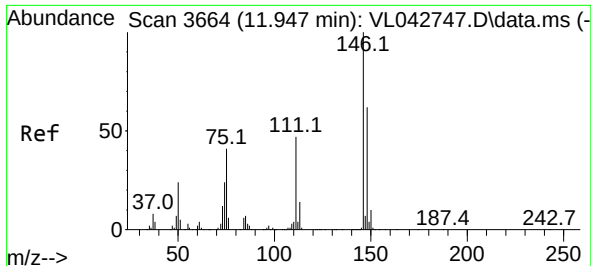
Ion Ratio Lower Upper

146 100

111 45.9 21.4 64.2

148 65.4 32.1 96.3

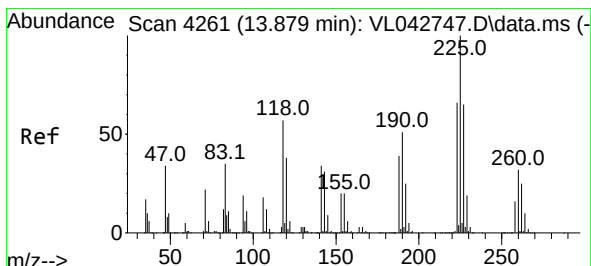
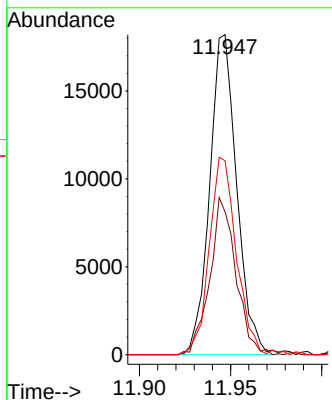
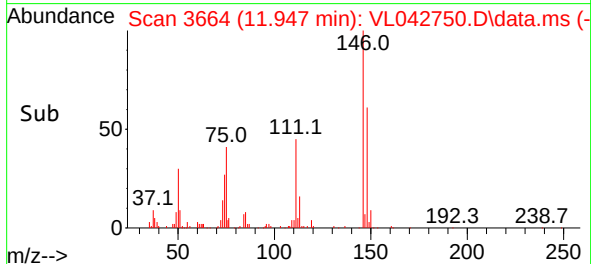
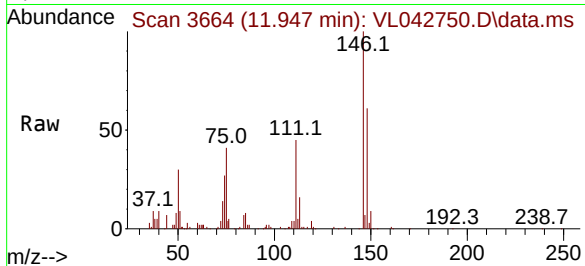




#77
1,2-Dichlorobenzene
Concen: 0.494 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

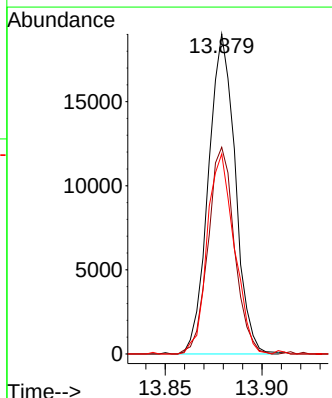
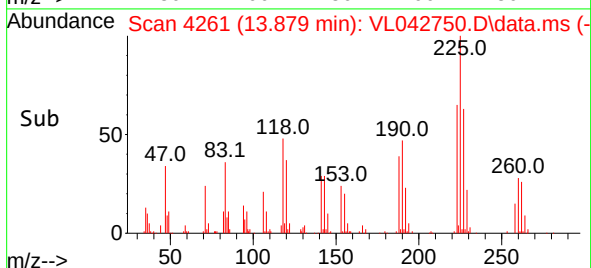
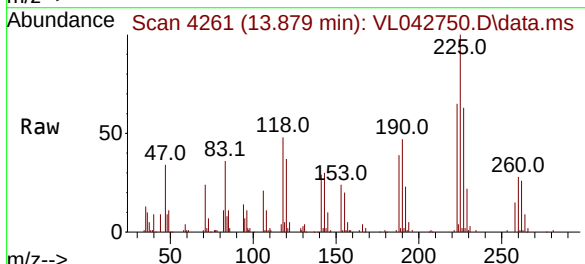
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

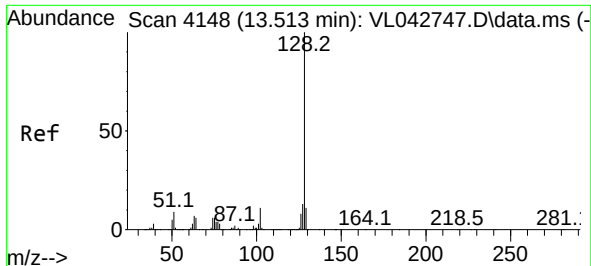
Tgt Ion:146 Resp: 18799
Ion Ratio Lower Upper
146 100
111 47.9 23.7 71.1
148 62.3 32.6 97.7



#78
Hexachloro-1,3-Butadiene
Concen: 0.532 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:225 Resp: 18330
Ion Ratio Lower Upper
225 100
223 63.7 50.7 76.1
227 63.7 50.5 75.7

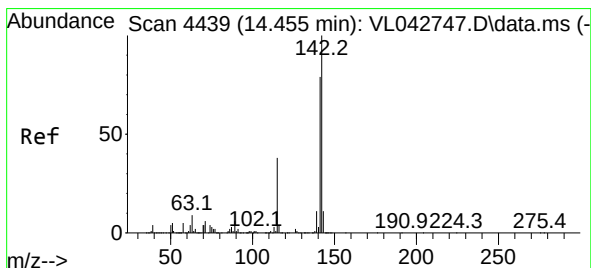
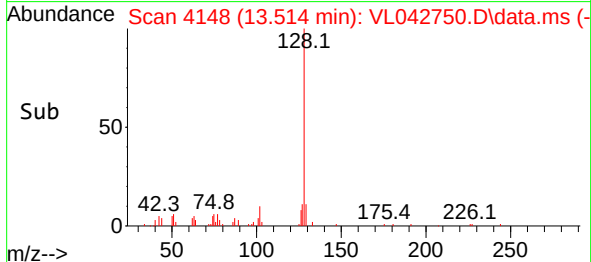
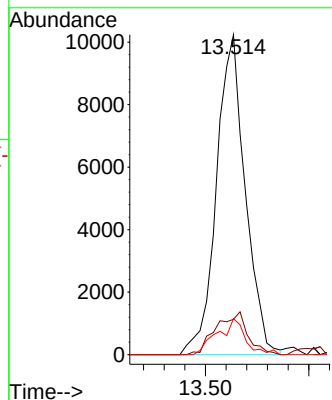
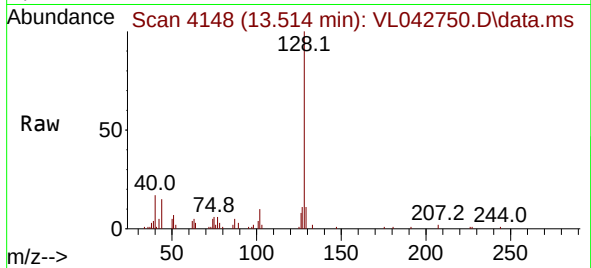




#79
Naphthalene
Concen: 0.592 ppbv
RT: 13.514 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

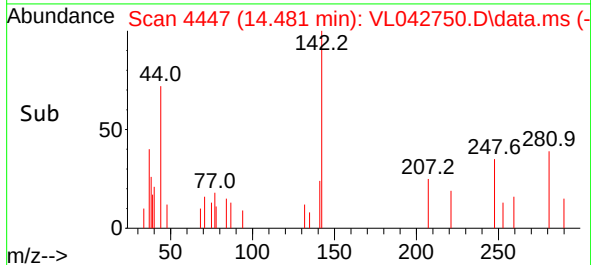
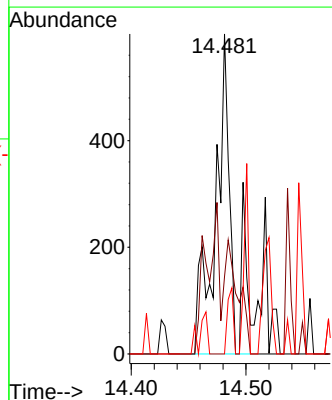
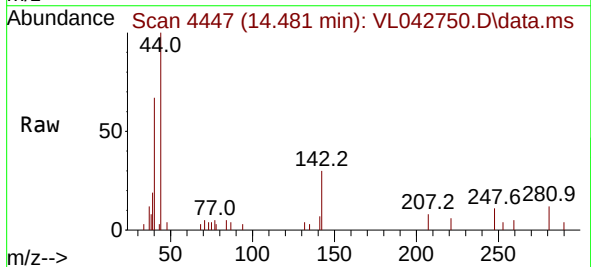
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

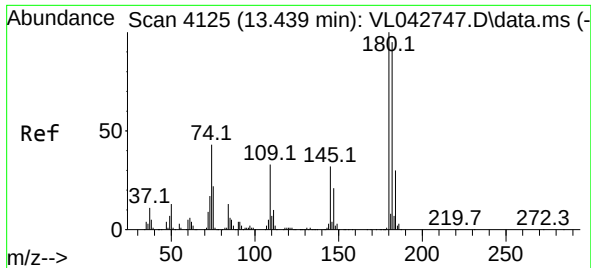
Tgt Ion:128 Resp: 9916
Ion Ratio Lower Upper
128 100
127 11.1 10.5 15.7
129 11.2 8.6 13.0



#80
Naphthalene,2-methyl-
Concen: 1.148 ppbv
RT: 14.481 min Scan# 4447
Delta R.T. 0.026 min
Lab File: VL042750.D
Acq: 23 Jul 2025 10:42

Tgt Ion:142 Resp: 731
Ion Ratio Lower Upper
142 100
141 54.6 65.8 98.8#
115 5.2 31.2 46.8#





#81

1,2,4-Trichlorobenzene

Concen: 0.645 ppbv

RT: 13.436 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042750.D

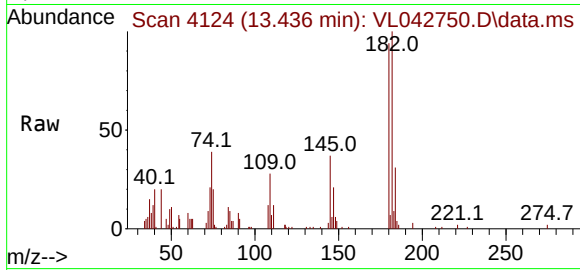
Acq: 23 Jul 2025 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5



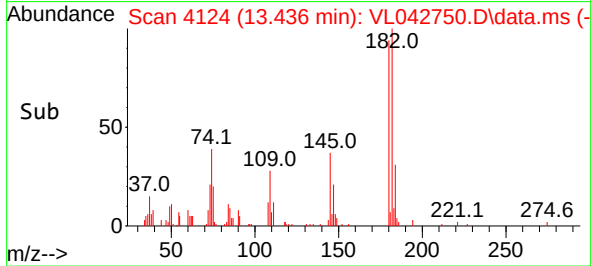
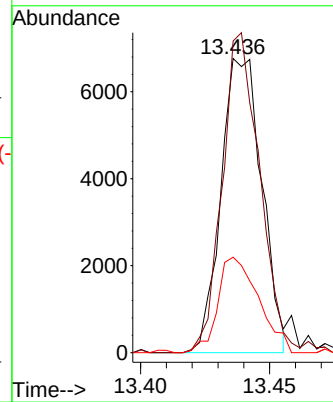
Tgt Ion:180 Resp: 7453

Ion Ratio Lower Upper

180 100

182 100.9 76.2 114.2

184 33.0 24.8 37.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042752.D
 Acq On : 23 Jul 2025 11:50
 Operator : SY/MD
 Sample : VSTDIC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Quant Time: Jul 24 04:59:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	151834	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	432802	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	387541	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	302164	9.845	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.554	85	753	0.038	ppbv	96
3) Chlorodifluoromethane	1.822	51	331	0.013	ppbv	100
4) Chloromethane	1.531	50	432	0.053	ppbv #	35
5) Vinyl Chloride	1.580	62	376	0.047	ppbv #	68
6) Bromomethane	1.660	94	181	0.058	ppbv #	51
7) Chloroethane	1.703	64	125	0.040	ppbv #	72
8) Dichlorotetrafluoroethane	1.554	85	753	0.046	ppbv	98
9) Propene	1.411	41	190	0.020	ppbv	89
10) Heptane	4.978	43	121	0.005	ppbv #	27
11) Trichlorofluoromethane	1.877	101	936	0.045	ppbv #	76
12) 1,1,2-Trichlorotrifluo...	2.140	101	345	0.022	ppbv #	8
13) Ethanol	1.887	45	511	Below Cal	#	1
14) Bromoethene	1.777	108	156	0.028	ppbv #	1
15) Acetone	1.832	43	2557	0.122	ppbv	91
16) 1,3-Butadiene	1.605	39	502	0.056	ppbv #	8
17) tert-Butyl alcohol	2.042	59	782	0.041	ppbv #	72
18) 1,1-Dichloroethene	2.033	96	312	0.044	ppbv #	57
19) Isopropyl Alcohol	1.887	45	511	0.046	ppbv	98
20) Methylene Chloride	2.059	84	1607	0.243	ppbv #	86
21) Allyl Chloride	2.094	41	856	0.066	ppbv #	28
22) trans-1,2-Dichloroethene	2.337	96	263	0.034	ppbv #	50
23) Vinyl Acetate	2.460	43	1410	0.055	ppbv #	62
24) 1,1-Dichloroethane	2.405	63	715	0.046	ppbv #	94
25) Ethyl Acetate	2.832	43	1085	0.023	ppbv #	65
26) Hexane	2.819	57	704	0.035	ppbv #	1
27) Carbon Disulfide	2.146	76	605	0.035	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	249	0.026	ppbv #	1
29) Chloroform	2.842	83	1324	0.042	ppbv	92
30) Cyclohexane	3.852	84	115	0.007	ppbv #	1
31) cis-1,2-Dichloroethene	2.716	61	527	0.025	ppbv #	79
32) 1,1,1-Trichloroethane	3.353	97	302	0.009	ppbv #	1
34) 2-Butanone	2.557	43	1423	0.046	ppbv	96
35) Carbon Tetrachloride	3.755	117	427	0.013	ppbv #	43
36) Benzene	3.645	78	1657	0.040	ppbv #	84
37) 1,2-Dichloroethane	3.214	62	902	0.037	ppbv #	81
38) Trichloroethene	4.535	130	438	0.022	ppbv #	24
39) 1,2-Dichloropropane	3.949	63	109883	7.257	ppbv #	21
40) 1,4-Dioxane	4.541	88	32	0.004	ppbv #	1
41) Tetrahydrofuran	3.039	42	84	0.005	ppbv #	38
42) Bromodichloromethane	4.470	83	390	0.012	ppbv #	26
43) Methyl Methacrylate	4.862	69	32	0.002	ppbv #	1
44) 2,2,4-Trimethylpentane	4.628	57	714	0.011	ppbv #	1
45) t-1,3-Dichloropropene	6.392	75	252	0.015	ppbv #	77

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 Data File : VL042752.D
 Acq On : 23 Jul 2025 11:50
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

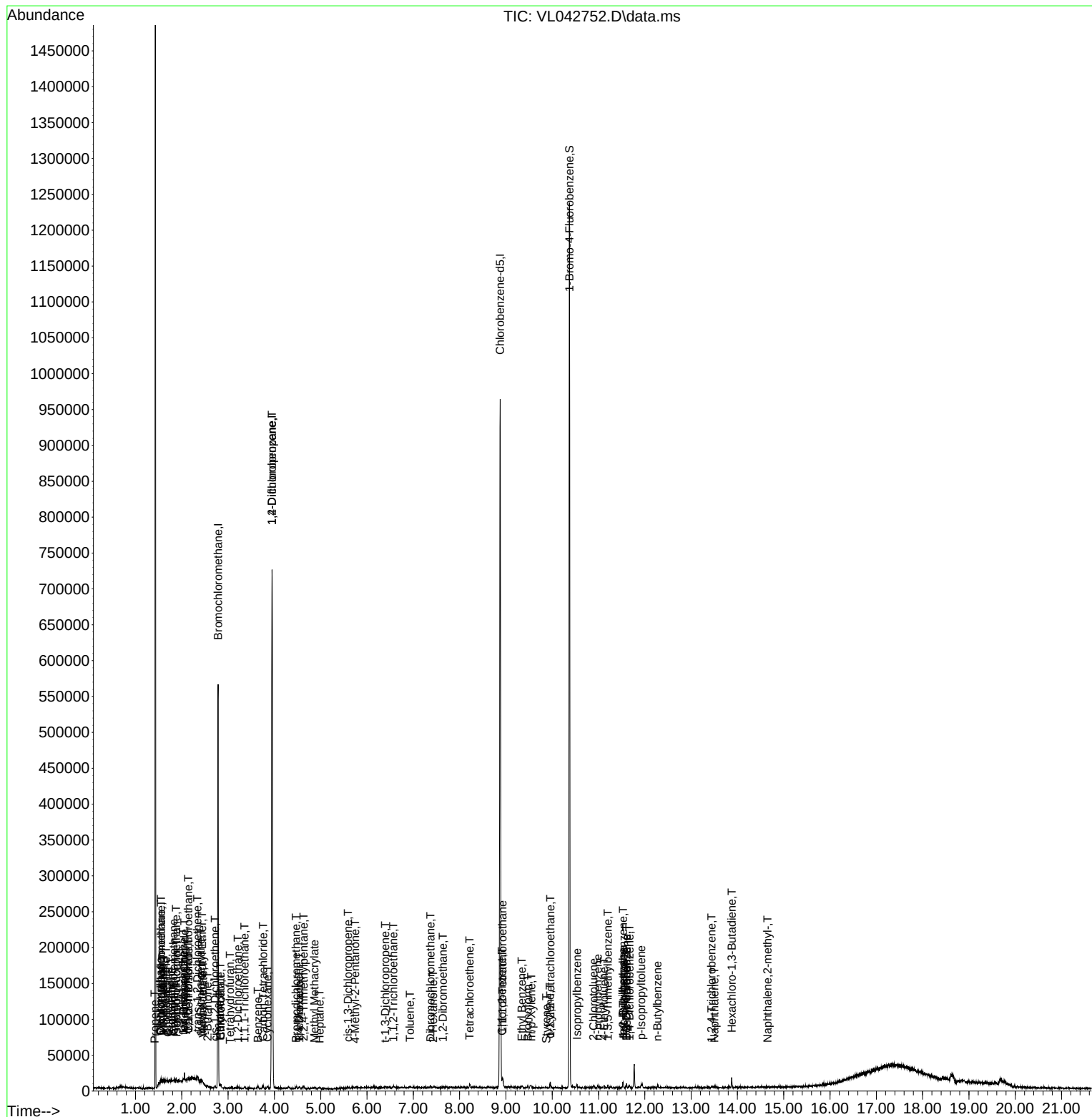
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 ClientSampleId :
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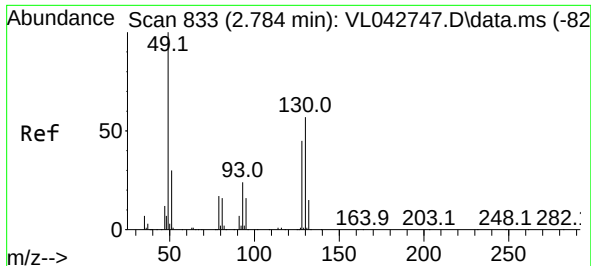
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	5.590	75	259	0.012	ppbv	#	26
47) 1,1,2-Trichloroethane	6.570	97	226	0.014	ppbv	#	34
48) Dibromochloromethane	7.370	129	206	0.008	ppbv	#	1
49) Bromoform	9.470	173	346	0.015	ppbv	#	31
50) 4-Methyl-2-Pentanone	5.742	43	157	0.004	ppbv	#	40
51) 2-Hexanone	7.428	43	72	0.002	ppbv	#	30
52) Tetrachloroethene	8.215	164	317	0.019	ppbv	#	35
53) Toluene	6.926	91	832	0.019	ppbv	#	21
54) 1,2-Dibromoethane	7.635	107	155	0.007	ppbv		87
56) 1,1,1,2-Tetrachloroethane	8.924	131	471	0.023	ppbv	#	1
57) Chlorobenzene	8.914	112	852	0.023	ppbv	#	48
58) Ethyl Benzene	9.344	91	837	0.014	ppbv		90
59) m/p-Xylene	9.548	91	1097	0.022	ppbv	#	30
60) o-Xylene	9.953	91	1440	0.029	ppbv		95
61) Styrene	9.872	104	373	0.018	ppbv	#	58
62) Isopropylbenzene	10.535	105	1137	0.016	ppbv	#	48
63) 1,1,2,2-Tetrachloroethane	9.959	83	685	0.022	ppbv	#	57
64) n-propylbenzene	10.985	120	465	0.025	ppbv		78
65) tert-Butylbenzene	11.526	119	1786	0.028	ppbv	#	92
66) Benzyl Chloride	11.600	91	118	0.022	ppbv	#	61
67) sec-Butylbenzene	11.529	105	1421	0.016	ppbv		96
69) p-Isopropyltoluene	11.921	119	1420	0.019	ppbv	#	78
70) n-Butylbenzene	12.273	91	591	0.008	ppbv	#	24
71) 2-Chlorotoluene	10.895	91	547	0.010	ppbv	#	45
72) 4-Ethyltoluene	11.118	105	1098	0.019	ppbv	#	78
73) 1,3,5-Trimethylbenzene	11.202	105	1204	0.025	ppbv		96
74) 1,2,4-Trimethylbenzene	11.529	105	1421	0.027	ppbv		88
75) 1,3-Dichlorobenzene	11.600	146	1122	0.031	ppbv		86
76) 1,4-Dichlorobenzene	11.668	146	658	0.018	ppbv	#	71
77) 1,2-Dichlorobenzene	11.600	146	1122	0.031	ppbv		89
78) Hexachloro-1,3-Butadiene	13.876	225	1559	0.048	ppbv	#	86
79) Naphthalene	13.503	128	126	0.436	ppbv	#	69
80) Naphthalene,2-methyl-	14.649	142	15	1.127	ppbv	#	23
81) 1,2,4-Trichlorobenzene	13.439	180	170	0.438	ppbv	#	1

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

Quant Time: Jul 24 04:59:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
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QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

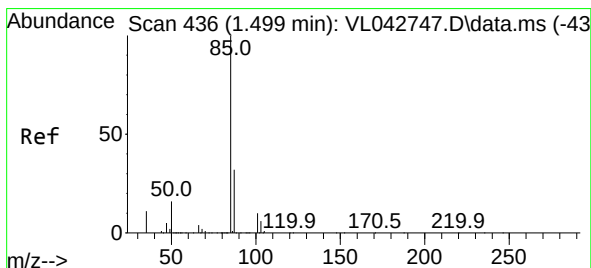
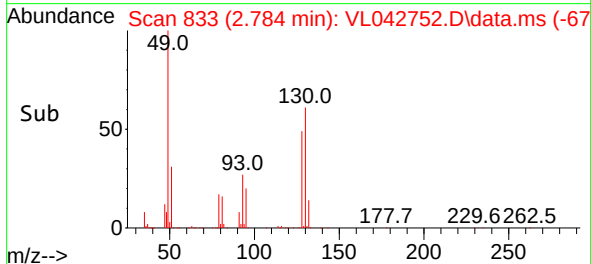
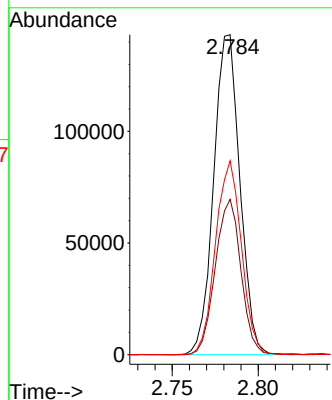
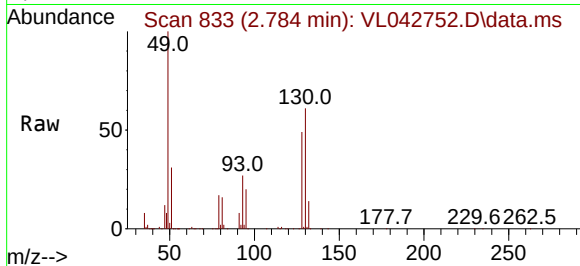




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

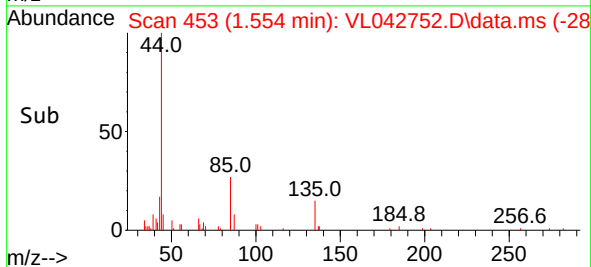
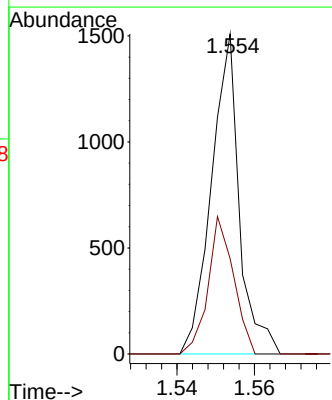
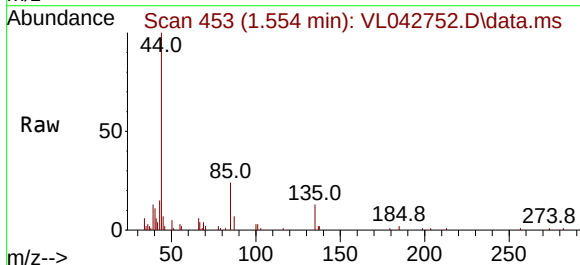
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MSVOA_L
ClientSampleId :
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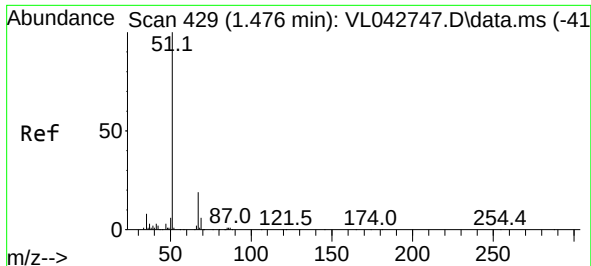
Tgt Ion: 49 Resp: 151834
Ion Ratio Lower Upper
49 100
128 47.5 23.6 71.0
130 60.2 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 0.038 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.055 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 85 Resp: 753
Ion Ratio Lower Upper
85 100
87 29.8 25.4 38.2

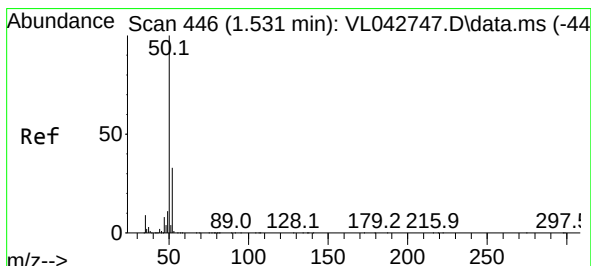
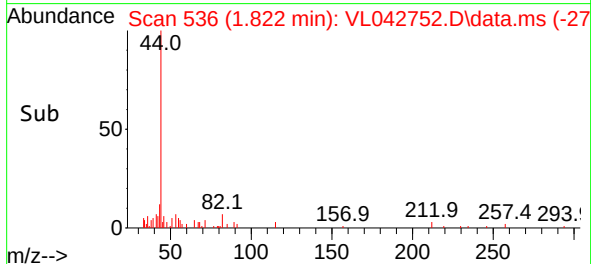
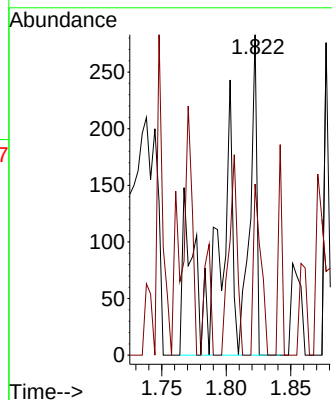
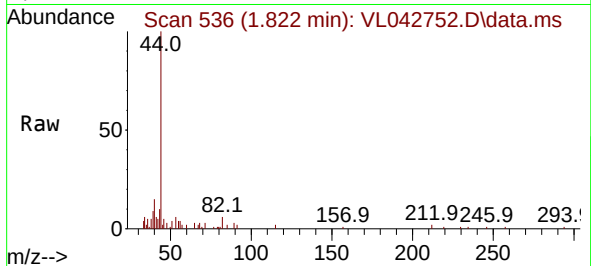




#3
Chlorodifluoromethane
Concen: 0.013 ppbv
RT: 1.822 min Scan# 51
Delta R.T. 0.346 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

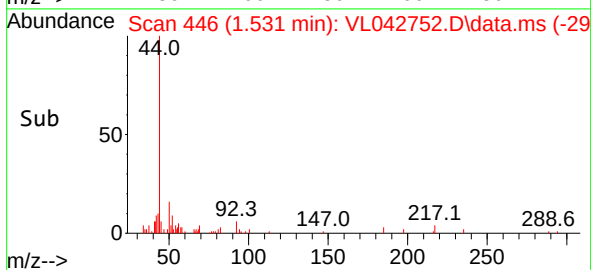
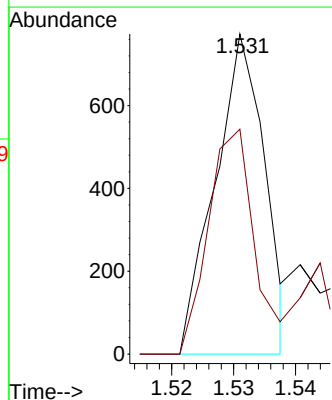
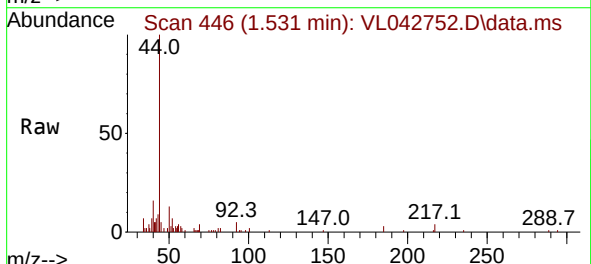
Instrument :
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ClientSampleId :
VSTDIC0.03

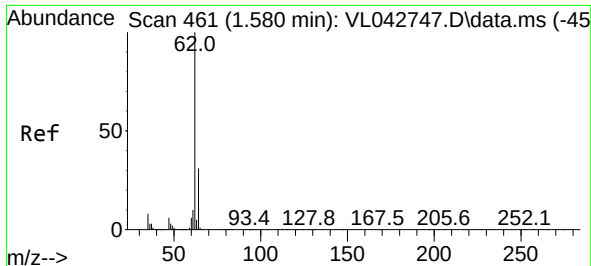
Tgt Ion: 51 Resp: 331
Ion Ratio Lower Upper
51 100
67 18.7 15.0 22.6



#4
Chloromethane
Concen: 0.053 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 50 Resp: 432
Ion Ratio Lower Upper
50 100
52 70.2 26.6 40.0#

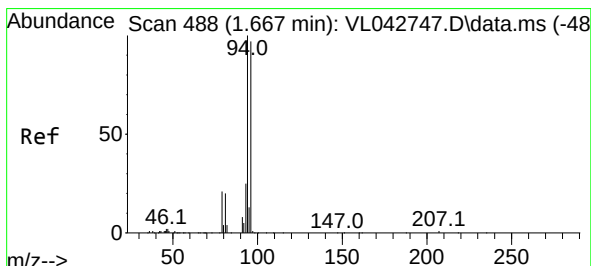
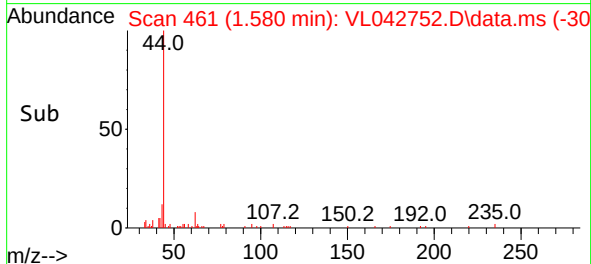
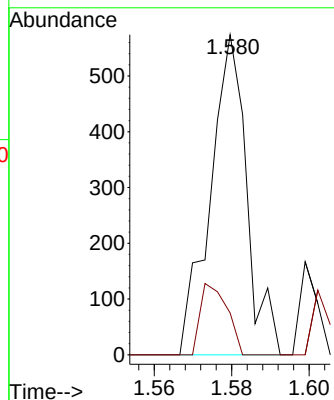
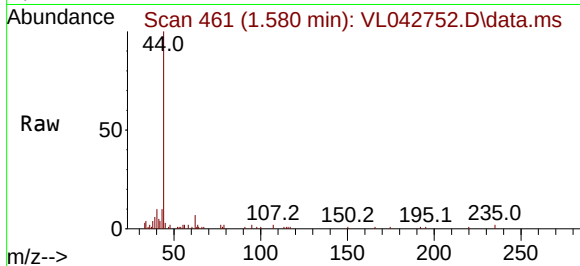




#5
 Vinyl Chloride
 Concen: 0.047 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

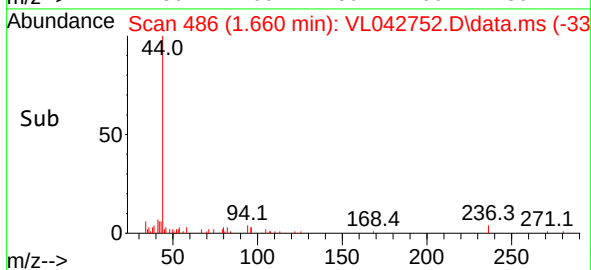
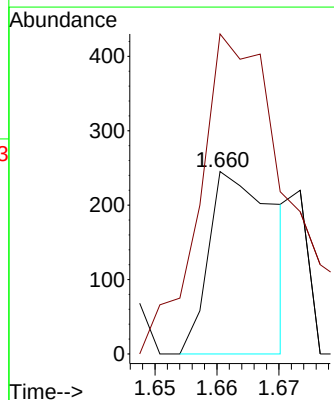
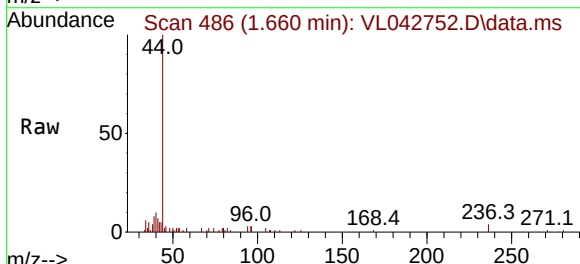
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

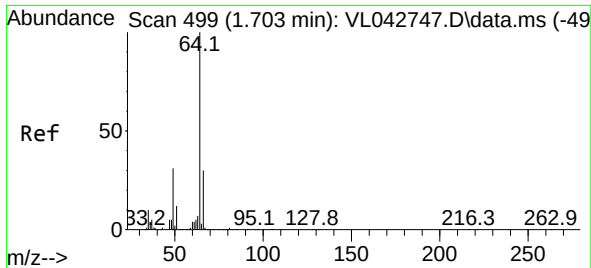
Tgt Ion: 62 Resp: 376
 Ion Ratio Lower Upper
 62 100
 64 13.1 24.5 36.7#



#6
 Bromomethane
 Concen: 0.058 ppbv
 RT: 1.660 min Scan# 486
 Delta R.T. -0.007 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

Tgt Ion: 94 Resp: 181
 Ion Ratio Lower Upper
 94 100
 96 144.9 77.6 116.4#

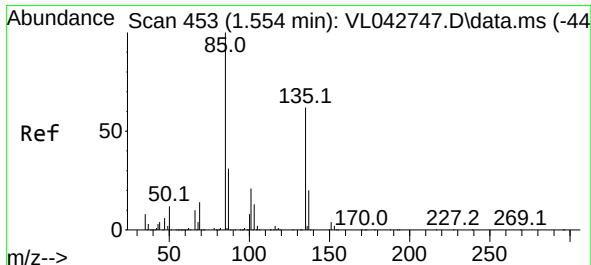
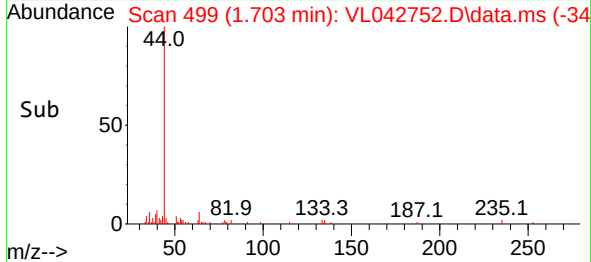
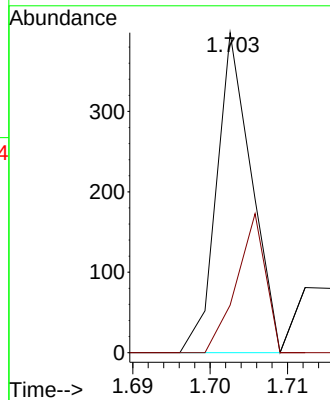
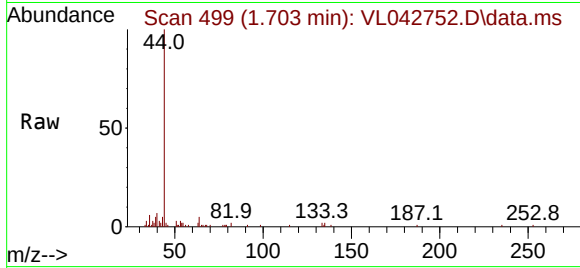




#7
Chloroethane
Concen: 0.040 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

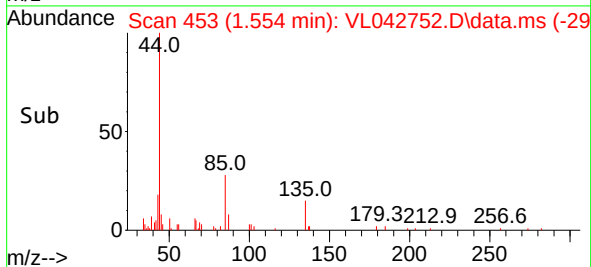
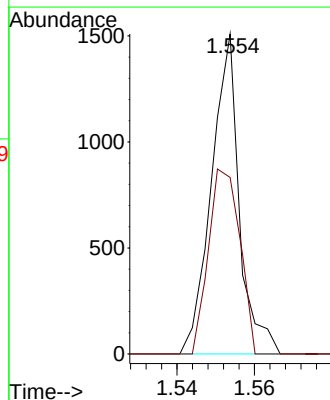
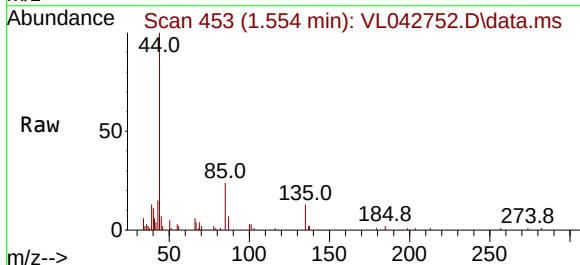
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

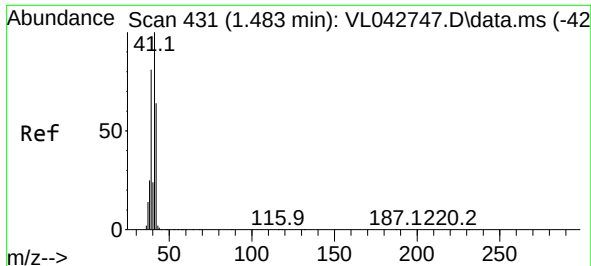
Tgt Ion: 64 Resp: 125
Ion Ratio Lower Upper
64 100
66 14.8 24.1 36.1#



#8
Dichlorotetrafluoroethane
Concen: 0.046 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 85 Resp: 753
Ion Ratio Lower Upper
85 100
135 65.1 50.6 76.0





#9

Propene

Concen: 0.020 ppbv

RT: 1.411 min Scan# 409

Delta R.T. -0.071 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

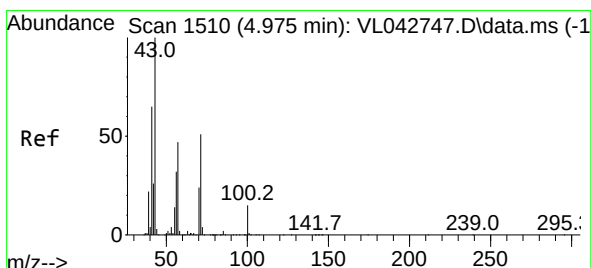
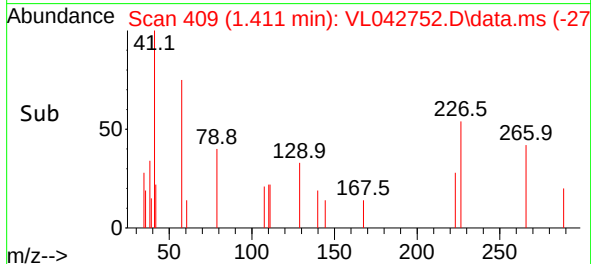
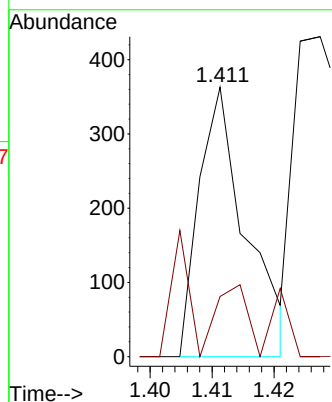
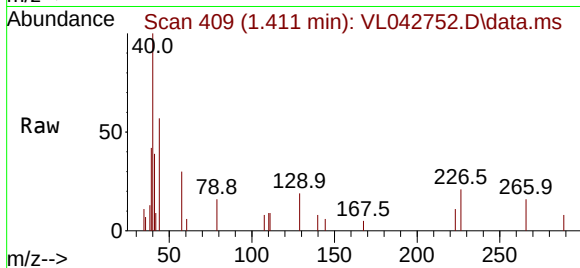
VSTDIC0.03

Tgt Ion: 41 Resp: 190

Ion Ratio Lower Upper

41 100

42 57.9 53.2 79.8



#10

Heptane

Concen: 0.005 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.003 min

Lab File: VL042752.D

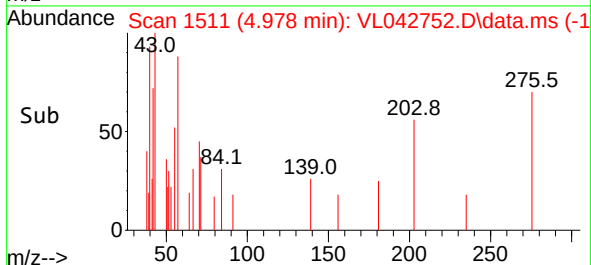
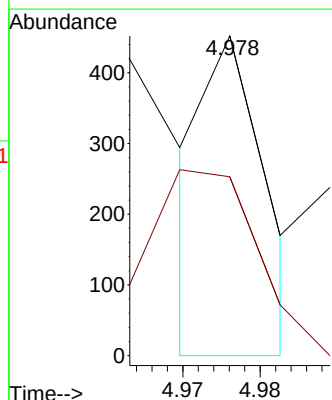
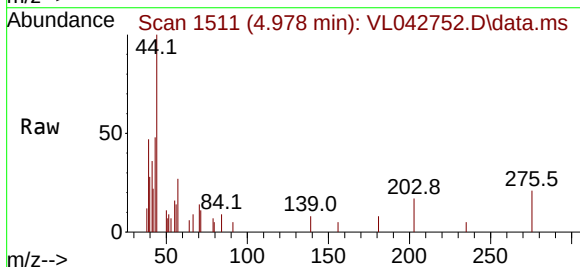
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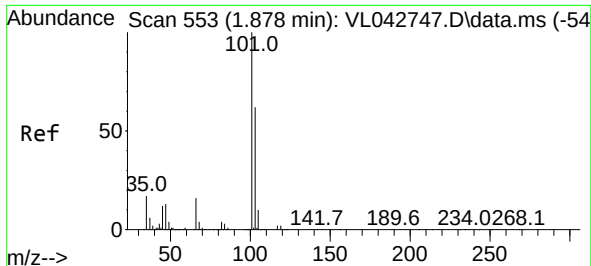
Tgt Ion: 43 Resp: 121

Ion Ratio Lower Upper

43 100

57 0.0 39.9 59.9#

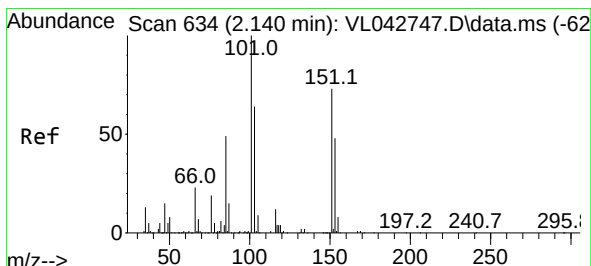
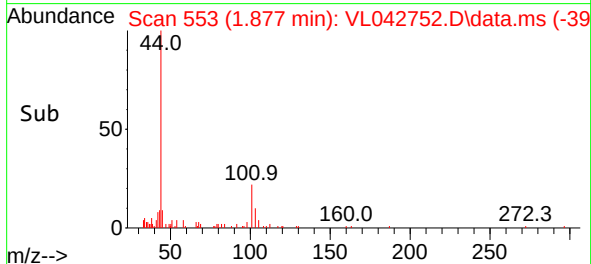
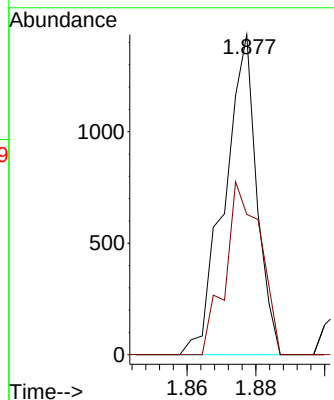
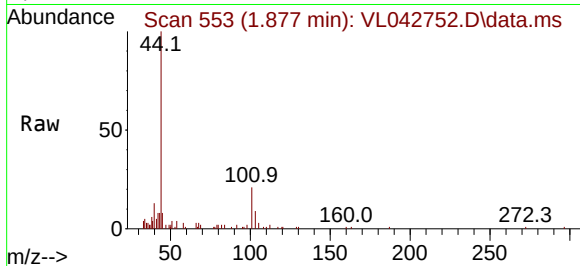




#11
 Trichlorofluoromethane
 Concen: 0.045 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

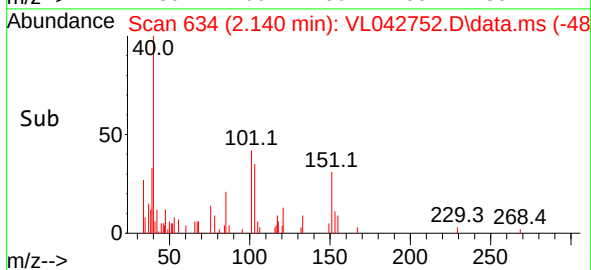
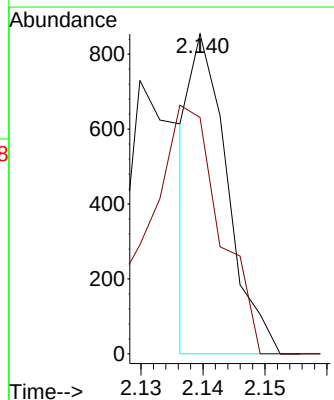
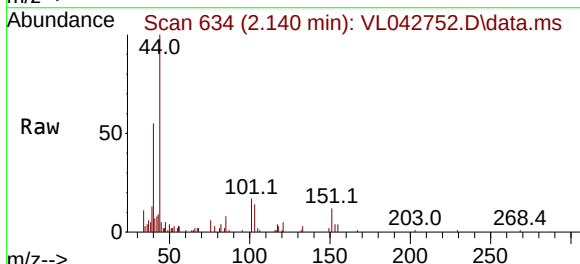
Instrument :
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 ClientSampleId :
 VSTDIC0.03

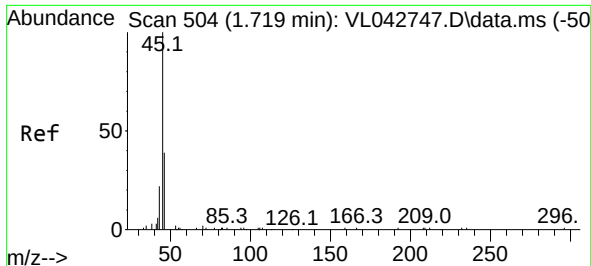
Tgt Ion:101 Resp: 936
 Ion Ratio Lower Upper
 101 100
 103 43.8 49.6 74.4#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.022 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. -0.000 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

Tgt Ion:101 Resp: 345
 Ion Ratio Lower Upper
 101 100
 151 154.5 60.5 90.7#

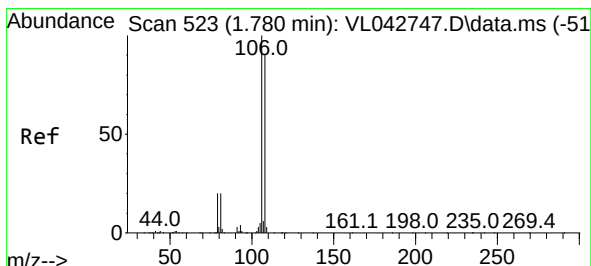
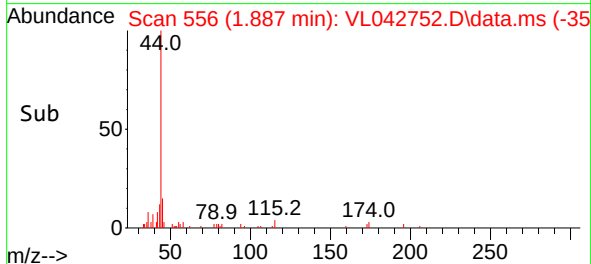
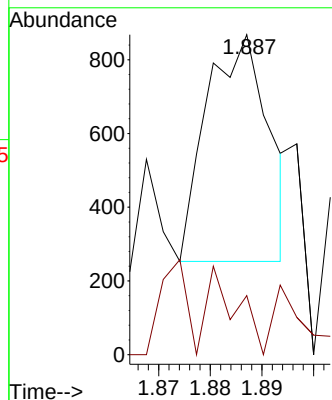
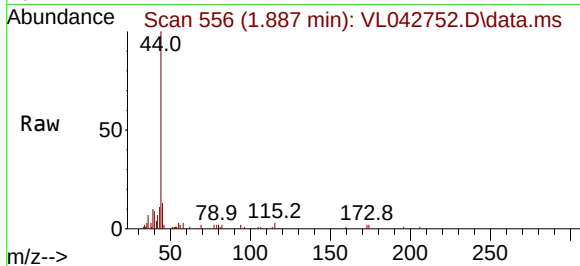




#13
 Ethanol
 Concen: Below Cal
 RT: 1.887 min Scan# 511
 Delta R.T. 0.168 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

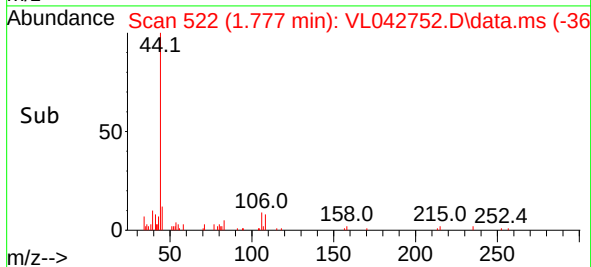
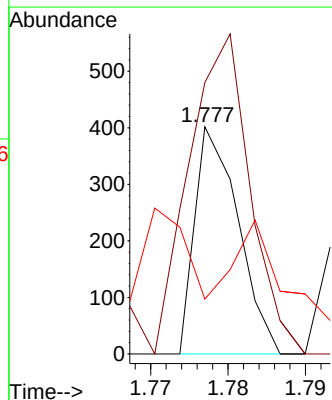
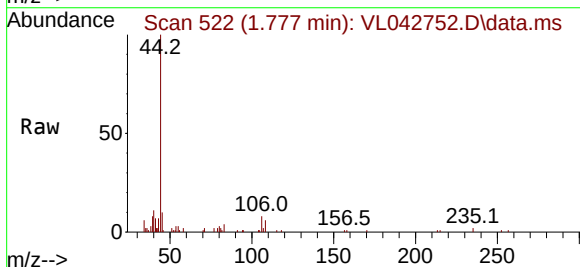
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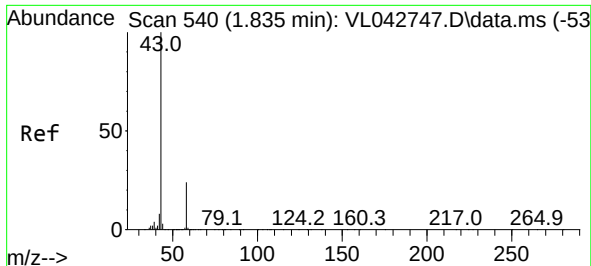
Tgt Ion: 45 Resp: 511
 Ion Ratio Lower Upper
 45 100
 46 146.4 17.8 71.4#



#14
 Bromoethene
 Concen: 0.028 ppbv
 RT: 1.777 min Scan# 522
 Delta R.T. -0.003 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

Tgt Ion: 108 Resp: 156
 Ion Ratio Lower Upper
 108 100
 106 219.2 84.7 127.1#
 79 223.7 17.4 26.2#

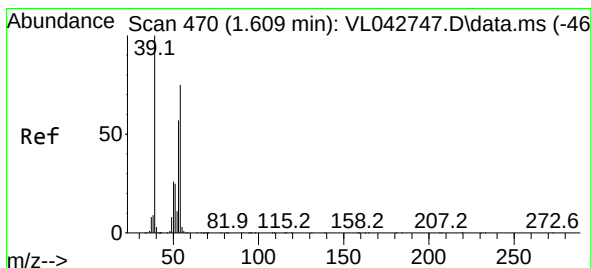
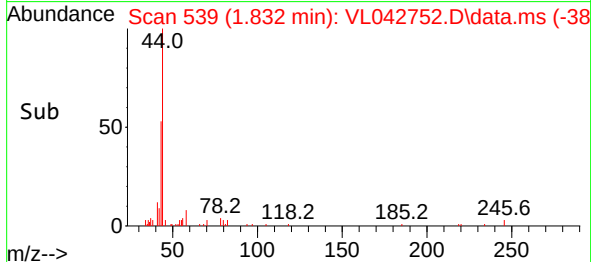
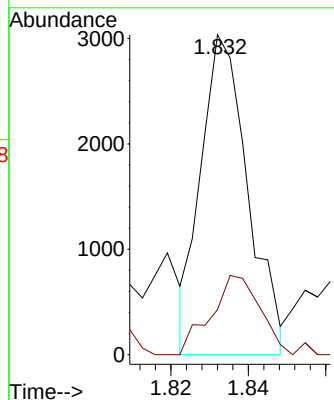
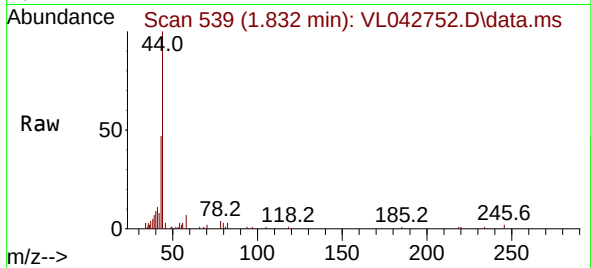




#15
Acetone
Concen: 0.122 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

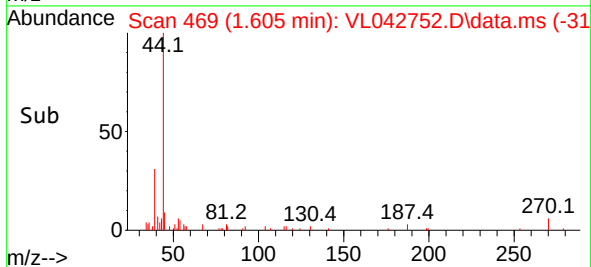
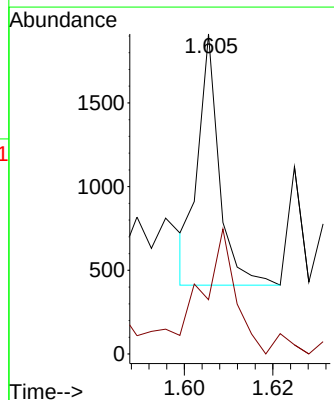
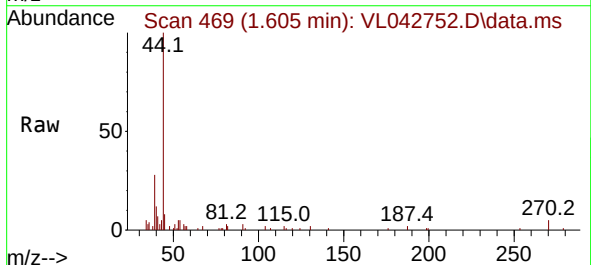
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

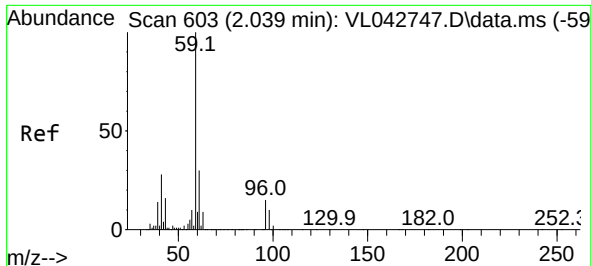
Tgt Ion: 43 Resp: 2557
Ion Ratio Lower Upper
43 100
58 29.5 19.8 29.8



#16
1,3-Butadiene
Concen: 0.056 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 39 Resp: 502
Ion Ratio Lower Upper
39 100
54 142.8 54.5 81.7#





#17

tert-Butyl alcohol

Concen: 0.041 ppbv

RT: 2.042 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

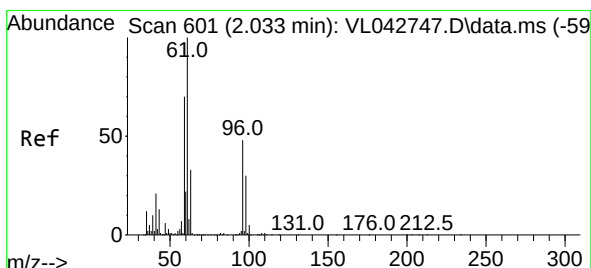
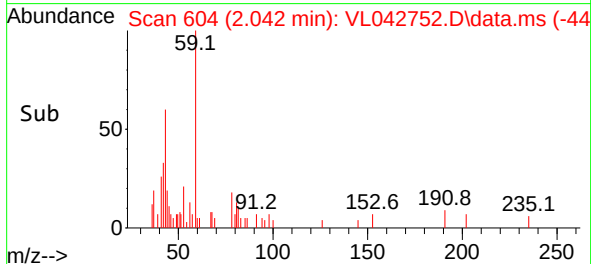
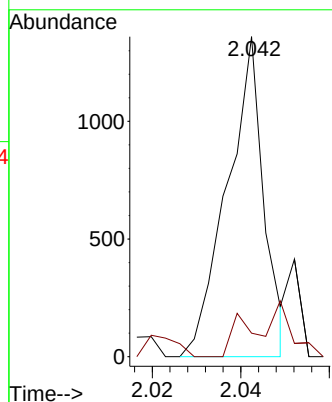
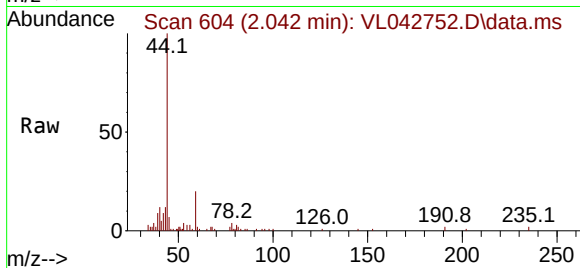
VSTDICC0.03

Tgt Ion: 59 Resp: 782

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#18

1,1-Dichloroethene

Concen: 0.044 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.000 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

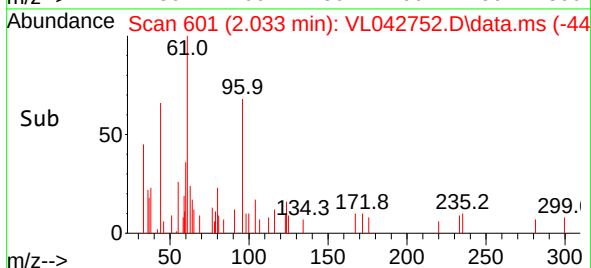
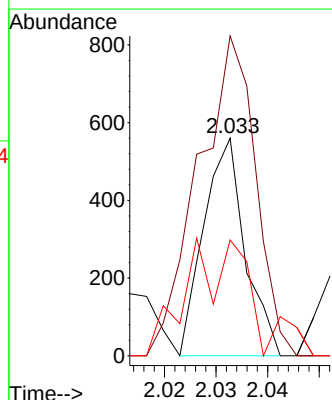
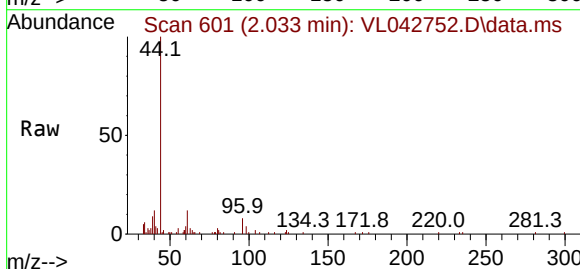
Tgt Ion: 96 Resp: 312

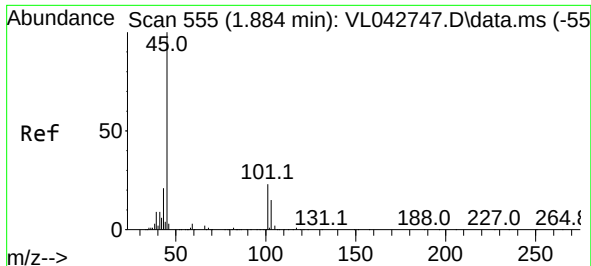
Ion Ratio Lower Upper

96 100

61 135.9 165.8 248.6#

98 38.4 49.9 74.9#

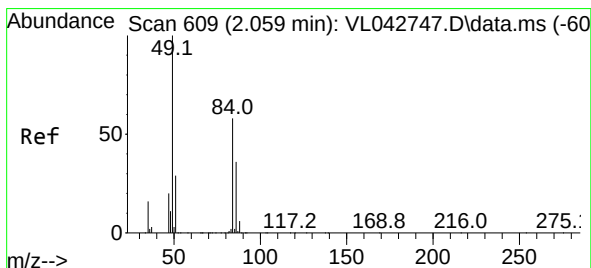
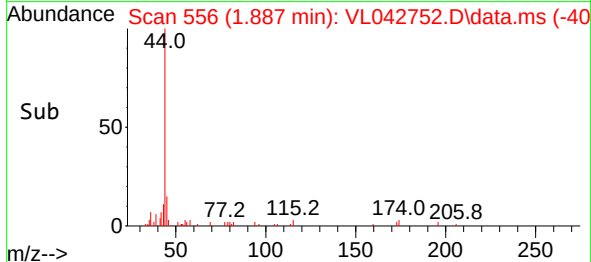
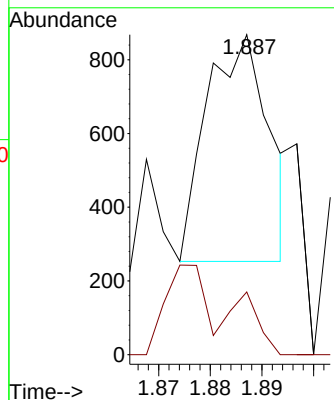
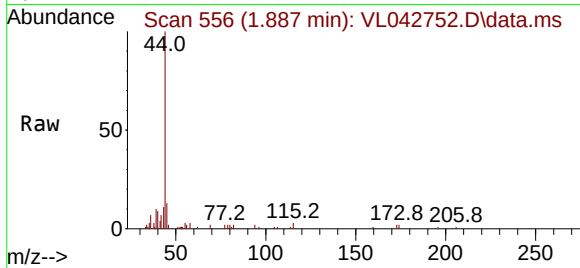




#19
Isopropyl Alcohol
Concen: 0.046 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

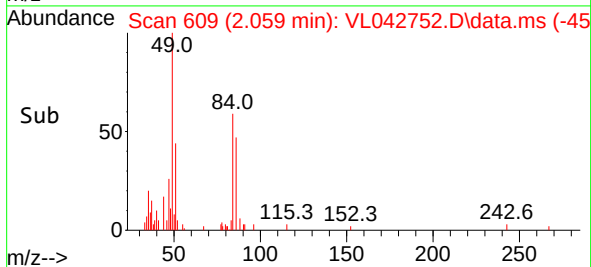
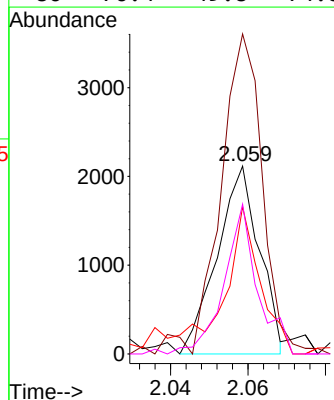
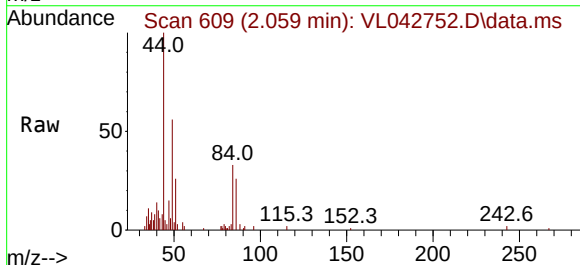
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

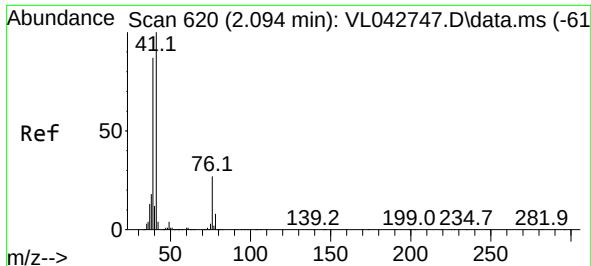
Tgt Ion: 45 Resp: 511
Ion Ratio Lower Upper
45 100
58 38.9 30.0 45.0



#20
Methylene Chloride
Concen: 0.243 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 84 Resp: 1607
Ion Ratio Lower Upper
84 100
49 161.5 138.6 208.0
51 68.3 40.6 61.0#
86 76.4 49.8 74.8#

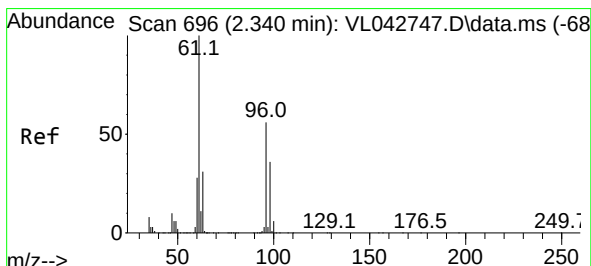
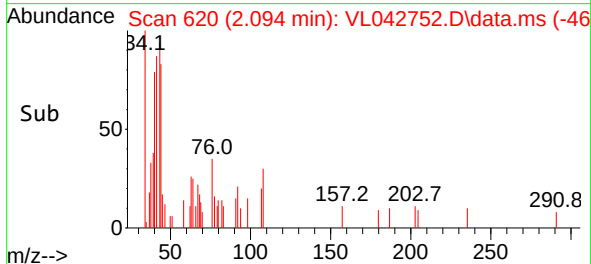
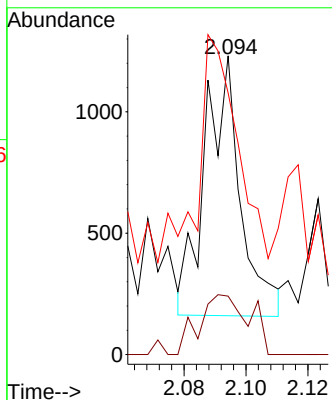
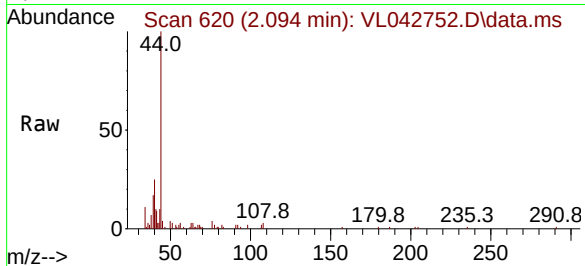




#21
 Allyl Chloride
 Concen: 0.066 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

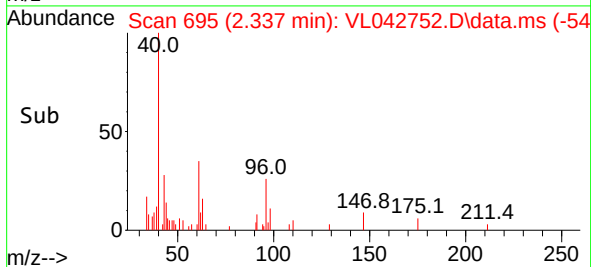
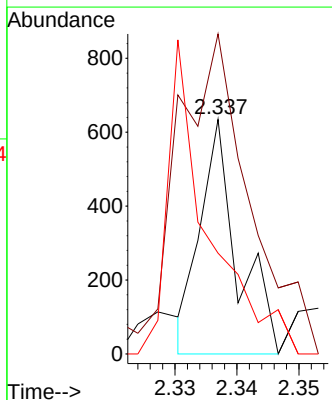
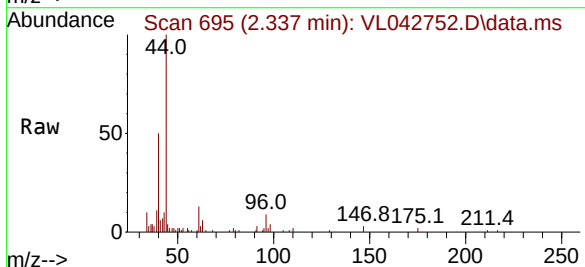
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

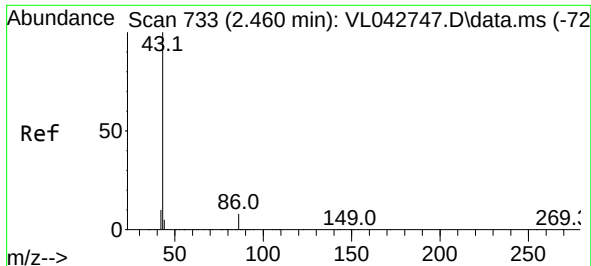
Tgt Ion: 41 Resp: 856
 Ion Ratio Lower Upper
 41 100
 76 35.0 21.1 31.7#
 39 167.2 68.3 102.5#



#22
 trans-1,2-Dichloroethene
 Concen: 0.034 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

Tgt Ion: 96 Resp: 263
 Ion Ratio Lower Upper
 96 100
 61 108.2 142.3 213.5#
 98 24.1 50.6 76.0#

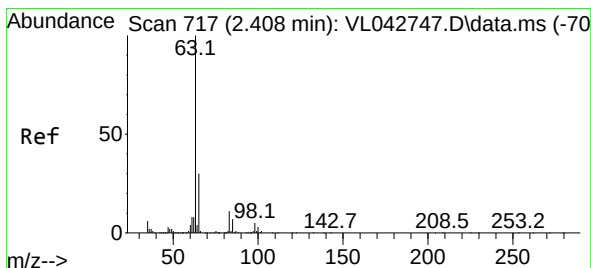
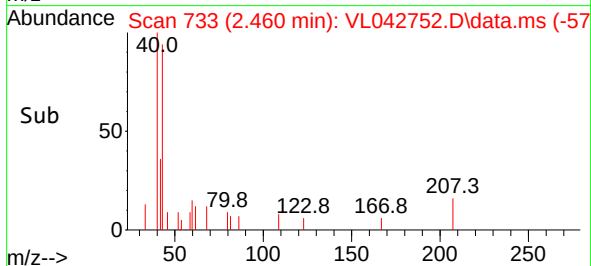
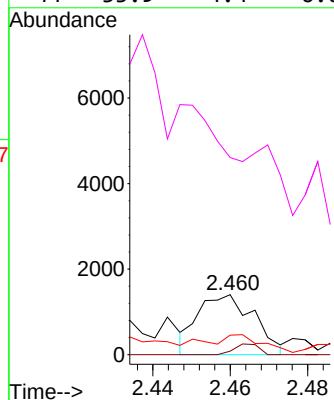
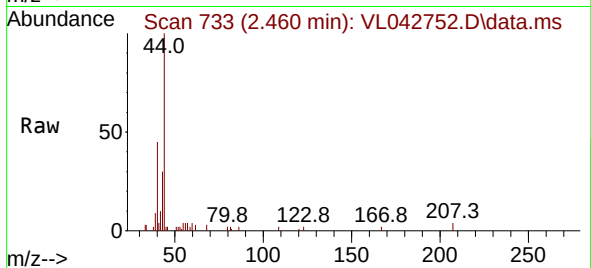




#23
 Vinyl Acetate
 Concen: 0.055 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

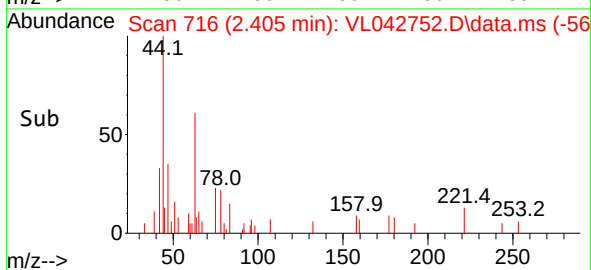
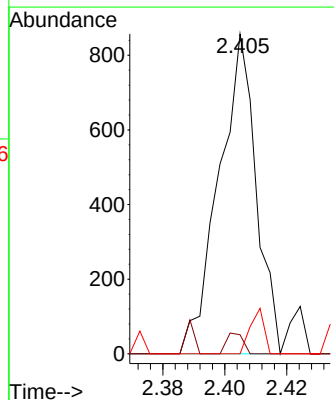
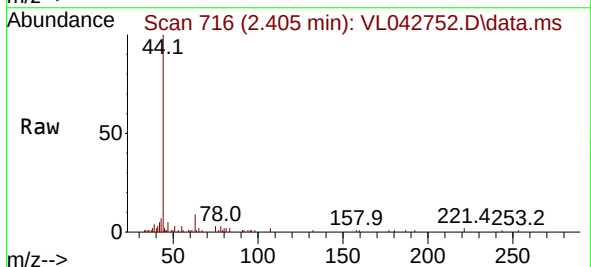
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

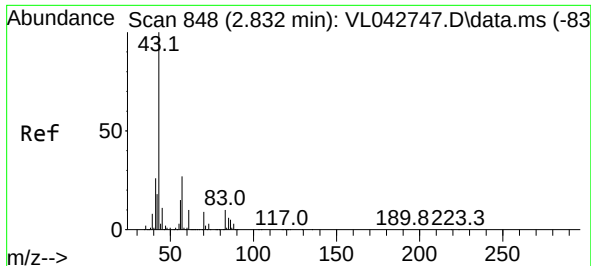
Tgt Ion:	43	Resp:	1410
Ion	Ratio	Lower	Upper
43	100		
86	7.1	6.1	9.1
42	24.7	7.8	11.8#
44	33.9	4.4	6.6#



#24
 1,1-Dichloroethane
 Concen: 0.046 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

Tgt Ion:	63	Resp:	715
Ion	Ratio	Lower	Upper
63	100		
98	6.0	2.5	7.4
100	0.0	1.6	4.8#

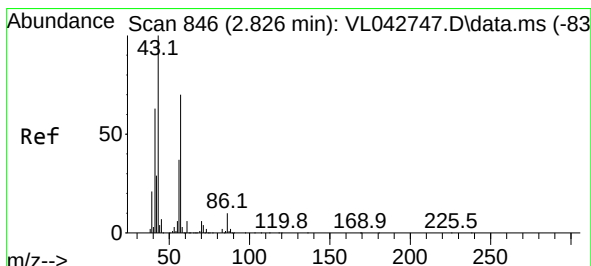
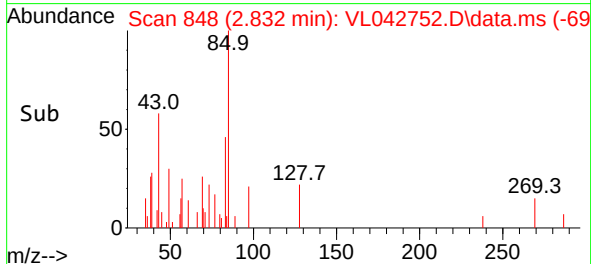
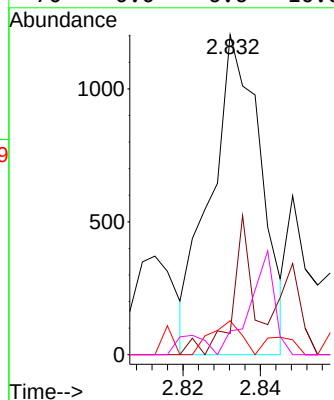
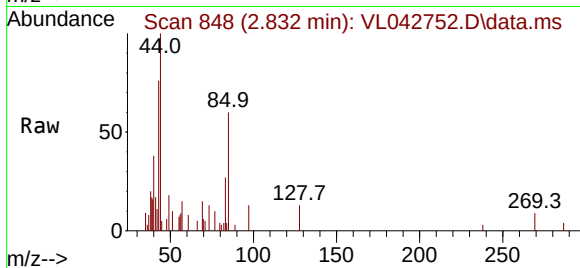




#25
Ethyl Acetate
Concen: 0.023 ppbv
RT: 2.832 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

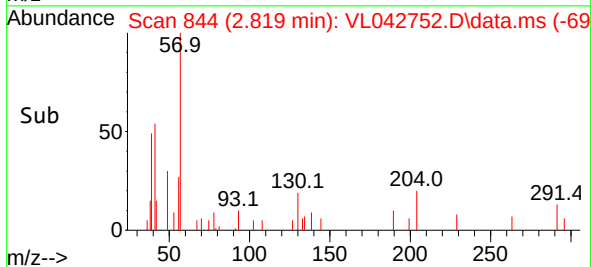
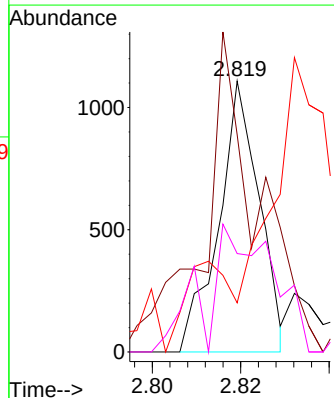
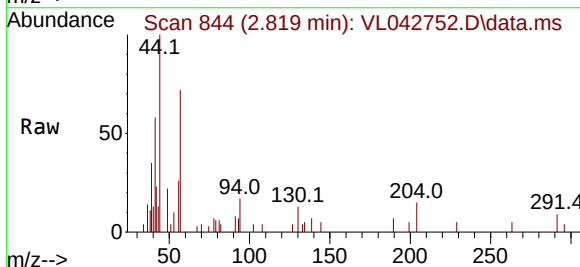
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

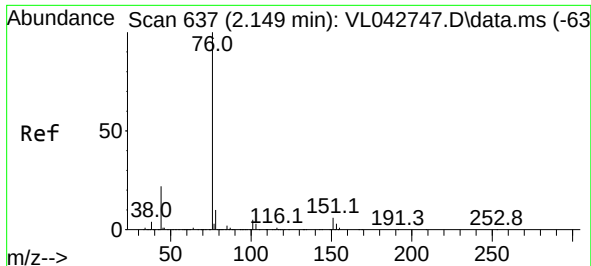
Tgt Ion:	43	Resp:	1085
Ion	Ratio	Lower	Upper
43	100		
45	29.7	7.8	11.6#
61	0.0	6.7	10.1#
70	0.0	6.6	10.0#



#26
Hexane
Concen: 0.035 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:	57	Resp:	704
Ion	Ratio	Lower	Upper
57	100		
41	174.3	75.4	113.2#
43	0.0	185.0	277.6#
56	81.1	42.9	64.3#





#27

Carbon Disulfide

Concen: 0.035 ppbv

RT: 2.146 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

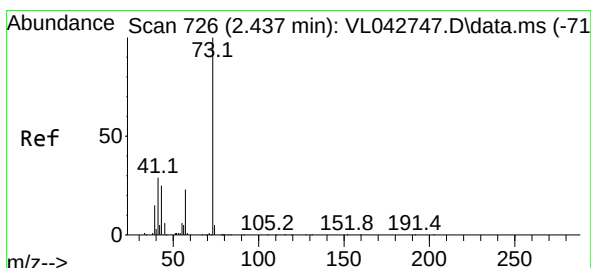
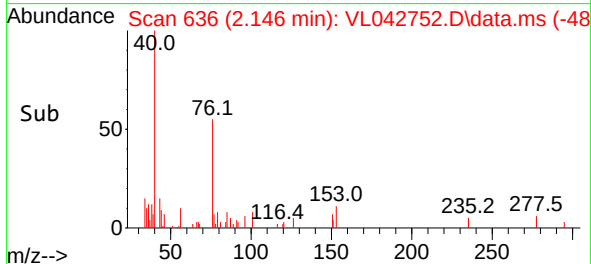
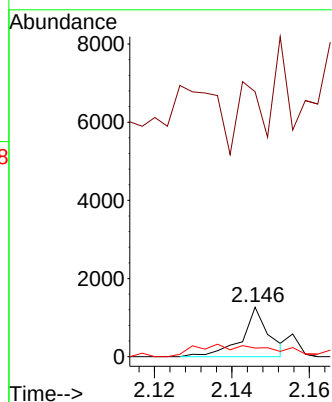
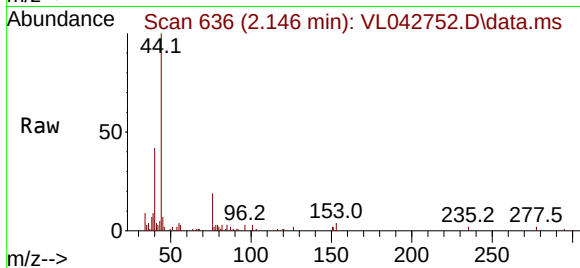
Tgt Ion: 76 Resp: 605

Ion Ratio Lower Upper

76 100

44 958.2 19.3 28.9#

78 90.7 9.9 14.9#



#28

Methyl tert-Butyl Ether

Concen: 0.026 ppbv

RT: 2.437 min Scan# 726

Delta R.T. -0.000 min

Lab File: VL042752.D

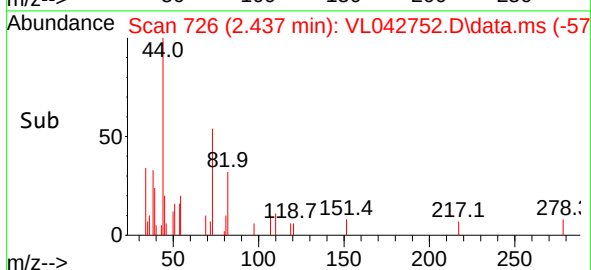
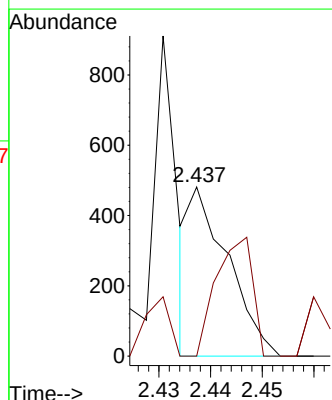
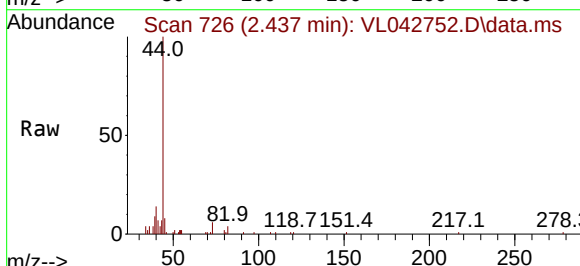
Acq: 23 Jul 2025 11:50

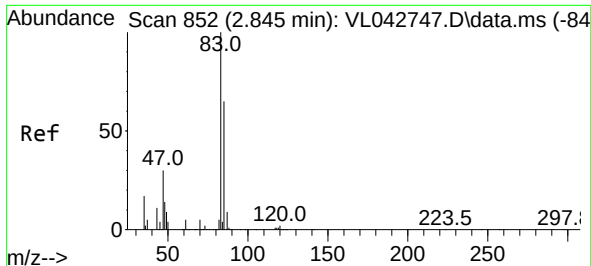
Tgt Ion: 73 Resp: 249

Ion Ratio Lower Upper

73 100

57 153.8 19.8 29.8#





#29

Chloroform

Concen: 0.042 ppbv

RT: 2.842 min Scan# 851

Delta R.T. -0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

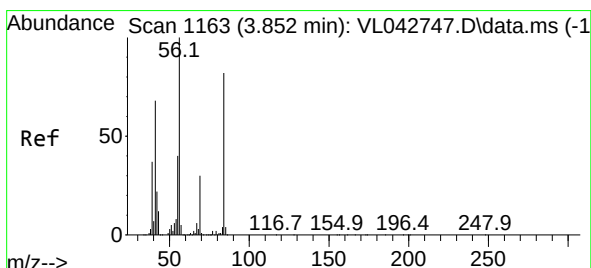
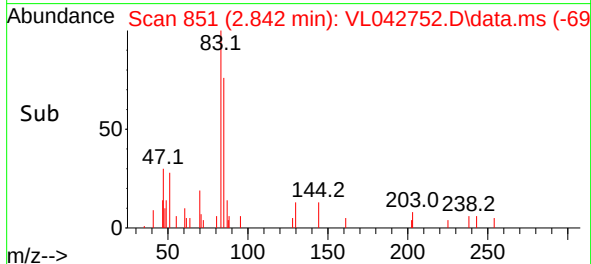
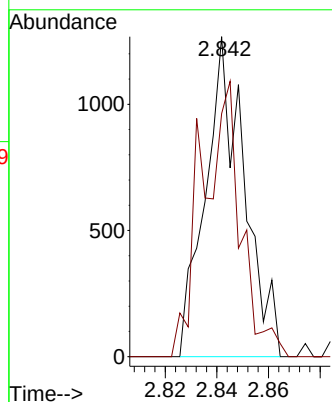
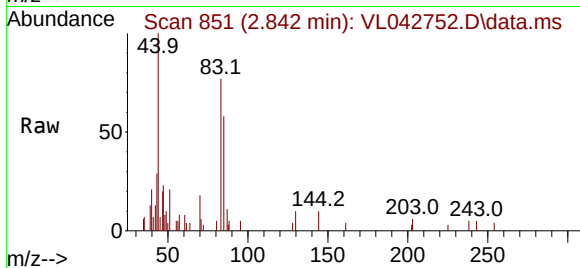
VSTDIC0.03

Tgt Ion: 83 Resp: 1324

Ion Ratio Lower Upper

83 100

85 71.8 52.2 78.2



#30

Cyclohexane

Concen: 0.007 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

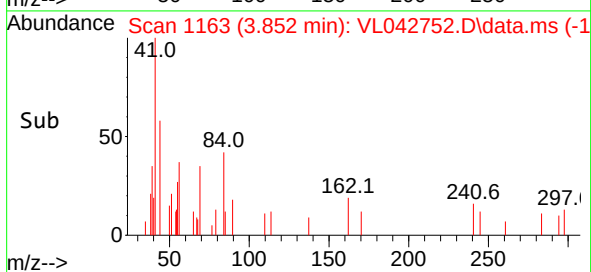
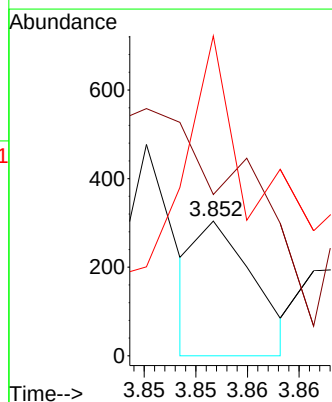
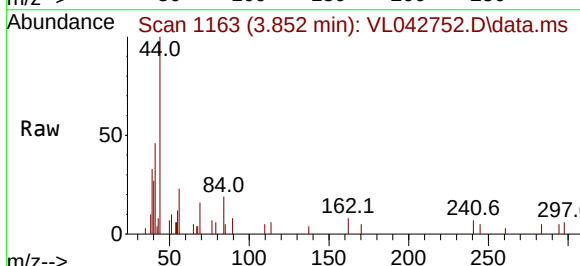
Tgt Ion: 84 Resp: 115

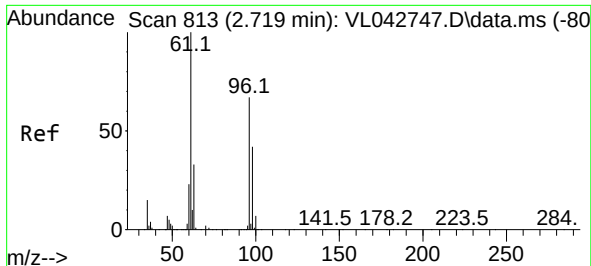
Ion Ratio Lower Upper

84 100

56 0.0 97.5 146.3#

41 1088.7 67.2 100.8#

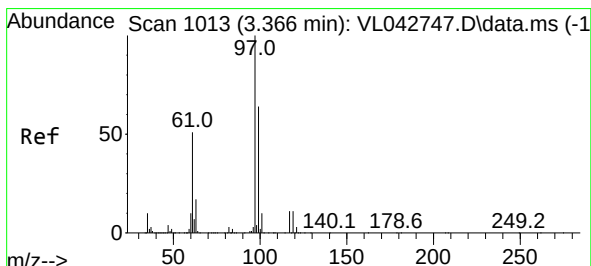
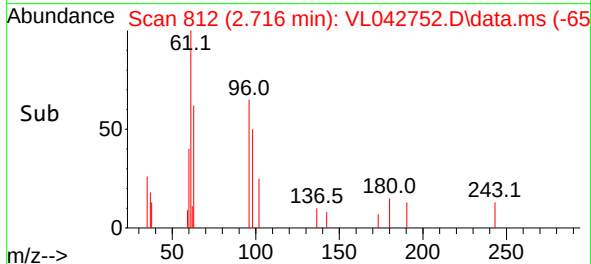
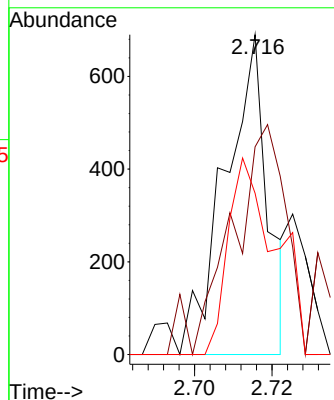
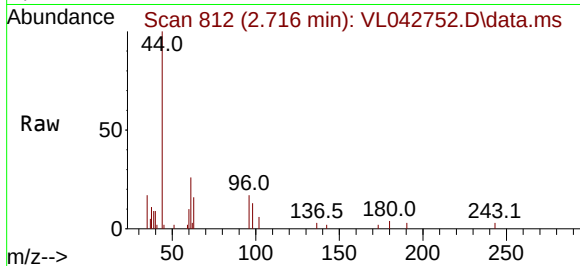




#31
 cis-1,2-Dichloroethene
 Concen: 0.025 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

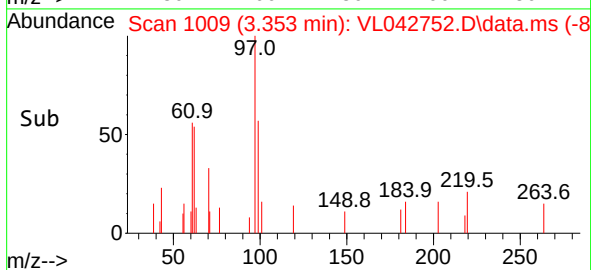
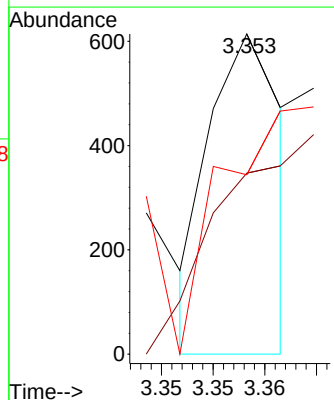
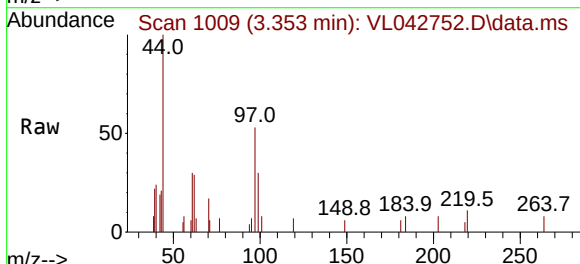
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

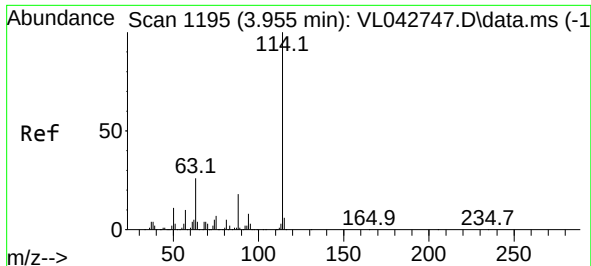
Tgt Ion: 61 Resp: 527
 Ion Ratio Lower Upper
 61 100
 96 46.1 53.5 80.3#
 98 50.4 33.6 50.4#



#32
 1,1,1-Trichloroethane
 Concen: 0.009 ppbv
 RT: 3.353 min Scan# 1009
 Delta R.T. -0.013 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

Tgt Ion: 97 Resp: 302
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.0 76.6#
 61 186.1 40.9 61.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.007 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

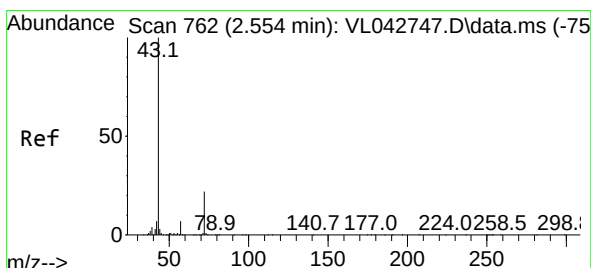
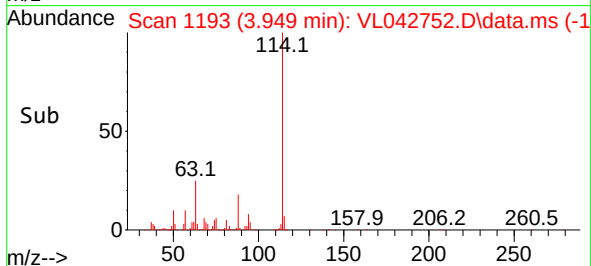
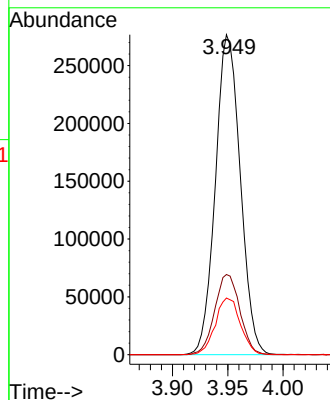
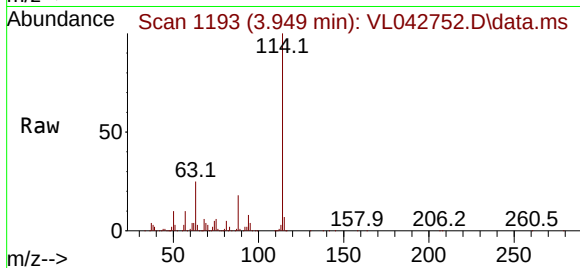
Tgt Ion:114 Resp: 432802

Ion Ratio Lower Upper

114 100

63 25.4 20.5 30.7

88 17.9 14.0 21.0



#34

2-Butanone

Concen: 0.046 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL042752.D

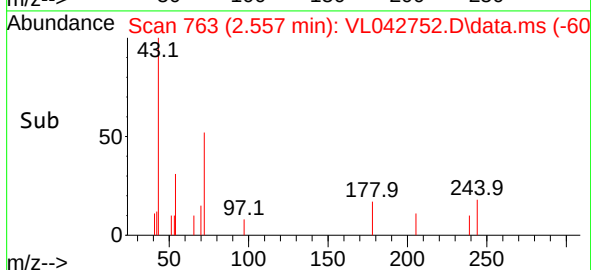
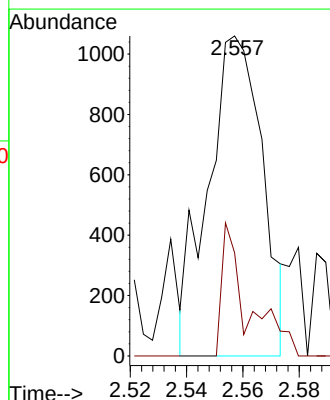
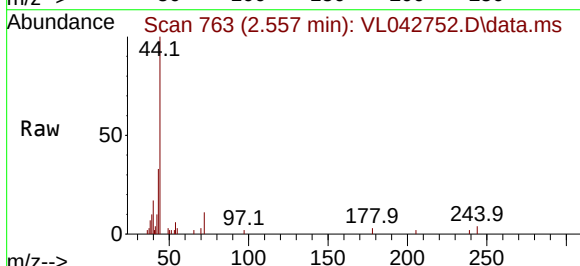
Acq: 23 Jul 2025 11:50

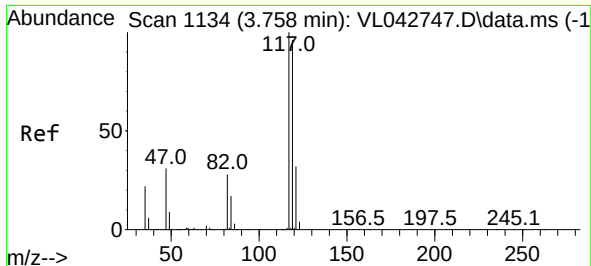
Tgt Ion: 43 Resp: 1423

Ion Ratio Lower Upper

43 100

72 19.7 17.4 26.0

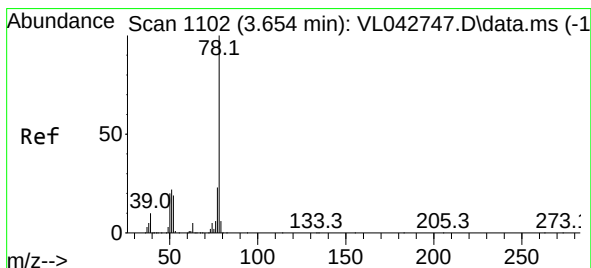
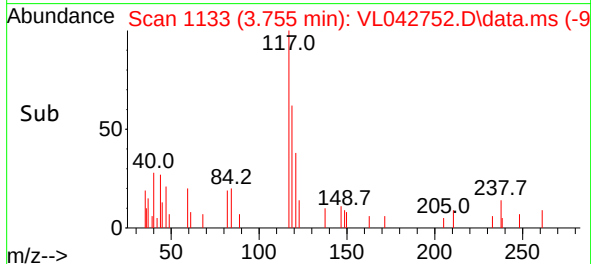
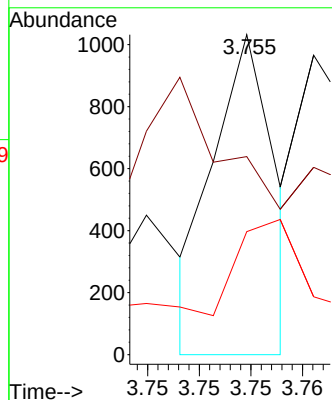
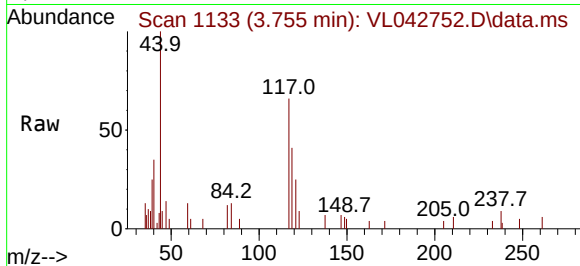




#35
Carbon Tetrachloride
Concen: 0.013 ppbv
RT: 3.755 min Scan# 1134
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

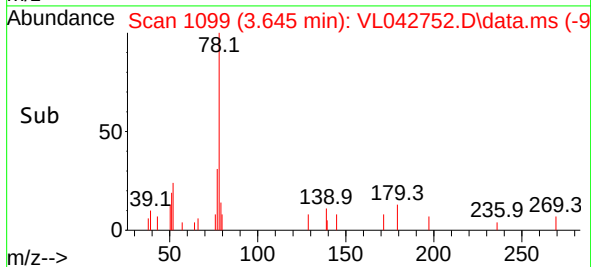
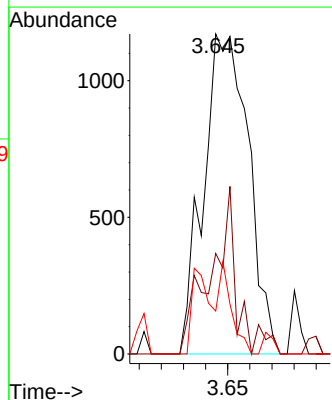
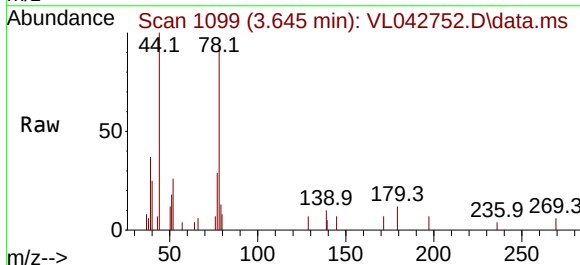
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

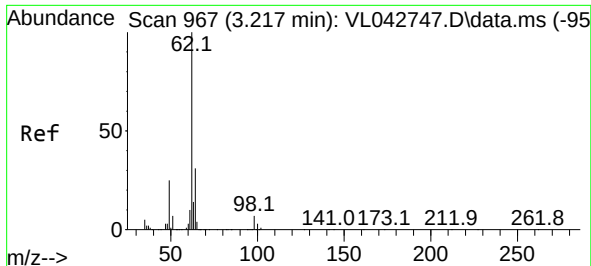
Tgt Ion:117 Resp: 427
Ion Ratio Lower Upper
117 100
119 23.7 77.1 115.7#
121 33.9 25.5 38.3



#36
Benzene
Concen: 0.040 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 78 Resp: 1657
Ion Ratio Lower Upper
78 100
77 31.4 18.5 27.7#
50 13.4 16.2 24.2#





#37

1,2-Dichloroethane

Concen: 0.037 ppbv

RT: 3.214 min Scan# 90

Delta R.T. -0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

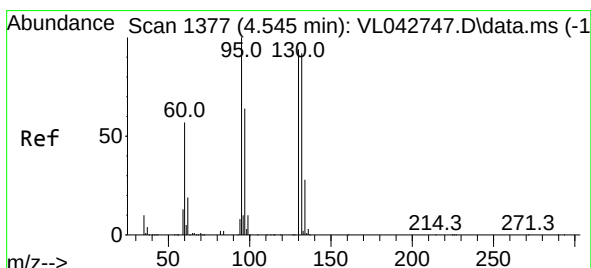
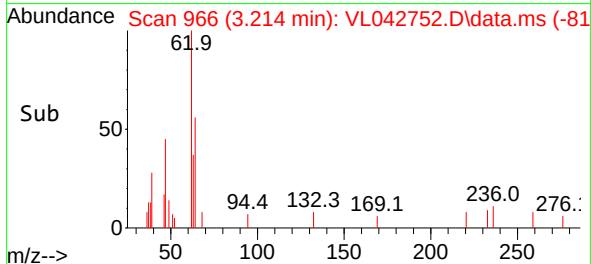
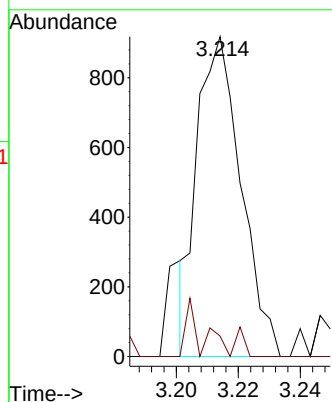
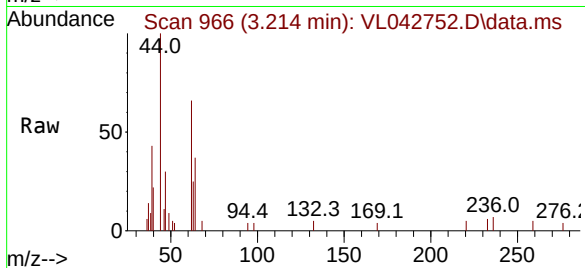
VSTDIC0.03

Tgt Ion: 62 Resp: 902

Ion Ratio Lower Upper

62 100

98 0.0 5.2 7.8#



#38

Trichloroethene

Concen: 0.022 ppbv

RT: 4.535 min Scan# 1374

Delta R.T. -0.010 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Tgt Ion:130 Resp: 438

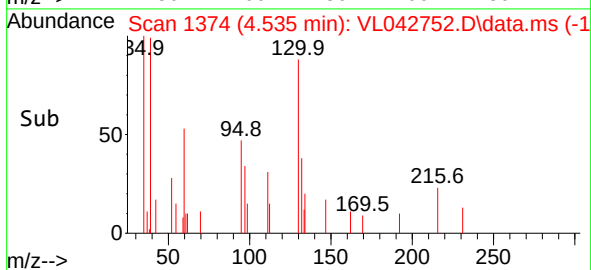
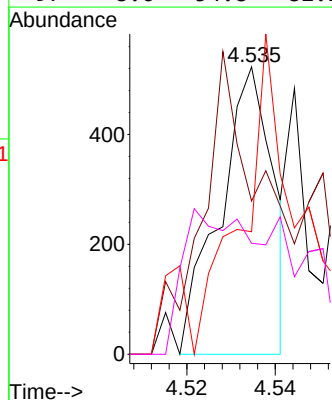
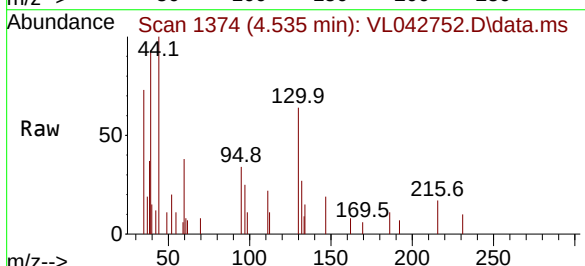
Ion Ratio Lower Upper

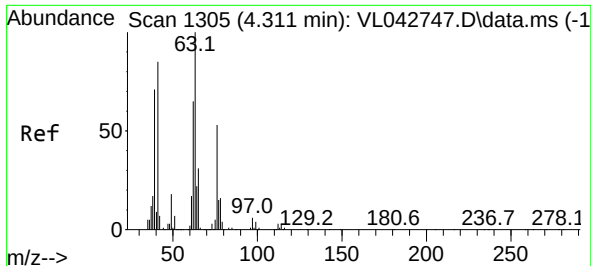
130 100

95 38.0 85.4 128.2#

132 11.9 78.2 117.2#

97 8.6 54.8 82.2#





#39

1,2-Dichloropropane

Concen: 7.257 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.363 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

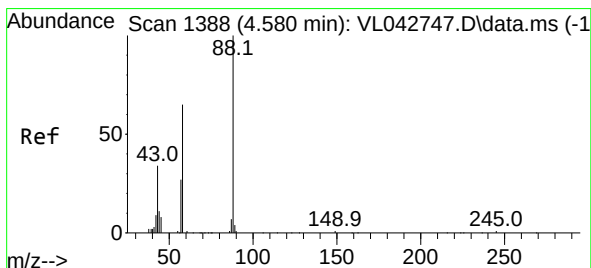
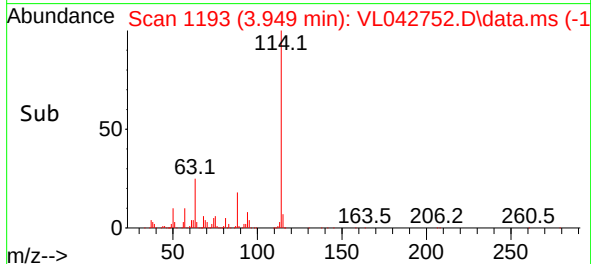
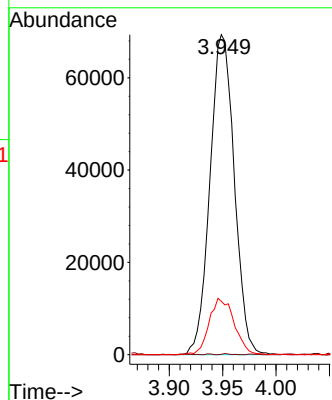
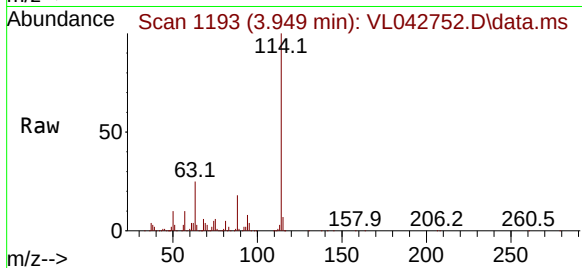
Tgt Ion: 63 Resp: 109883

Ion Ratio Lower Upper

63 100

41 0.0 68.2 102.4#

62 16.7 52.0 78.0#



#40

1,4-Dioxane

Concen: 0.004 ppbv

RT: 4.541 min Scan# 1376

Delta R.T. -0.039 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Tgt Ion: 88 Resp: 32

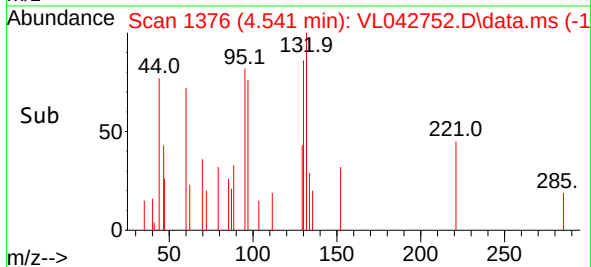
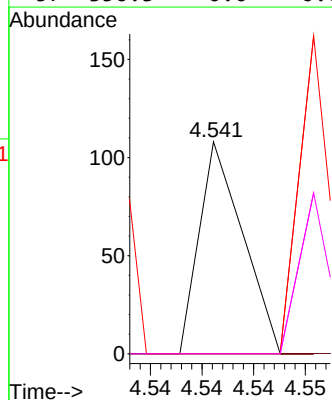
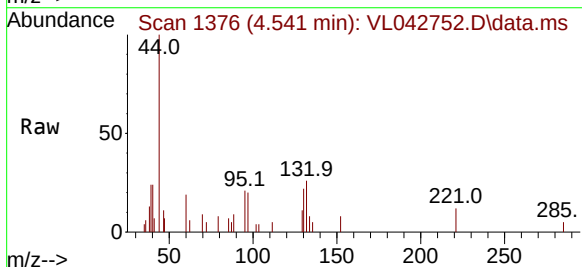
Ion Ratio Lower Upper

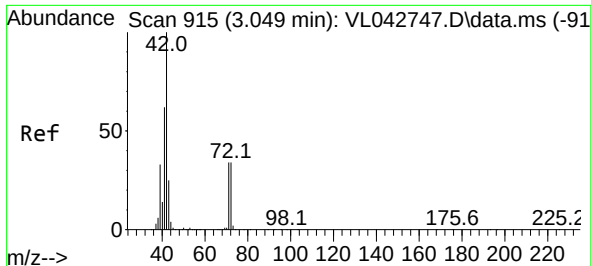
88 100

58 0.0 58.8 88.2#

43 456.3 28.9 43.3#

57 356.3 0.0 0.0#

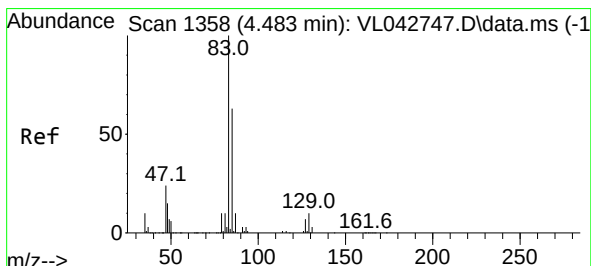
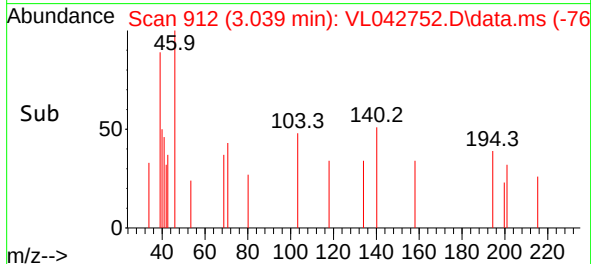
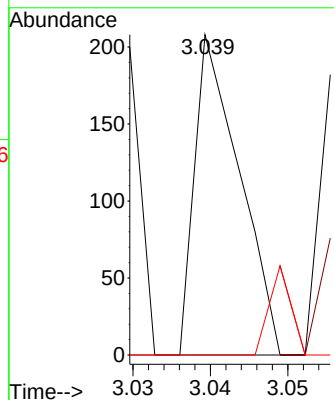
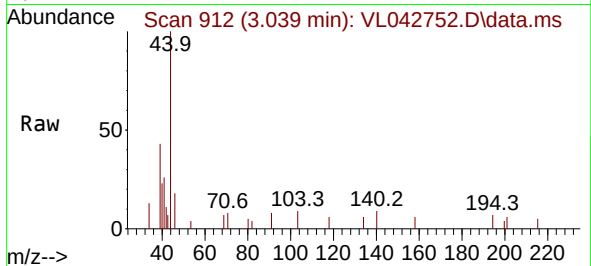




#41
Tetrahydrofuran
Concen: 0.005 ppbv
RT: 3.039 min Scan# 915
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

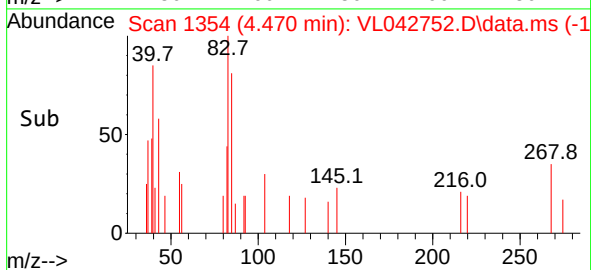
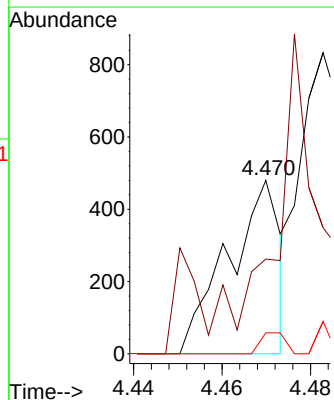
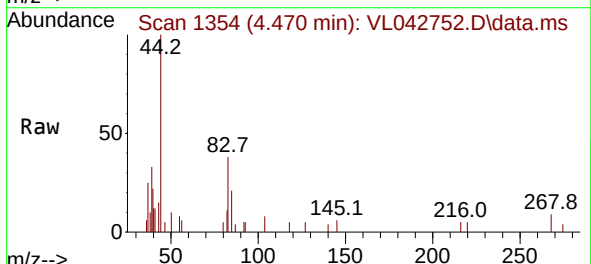
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

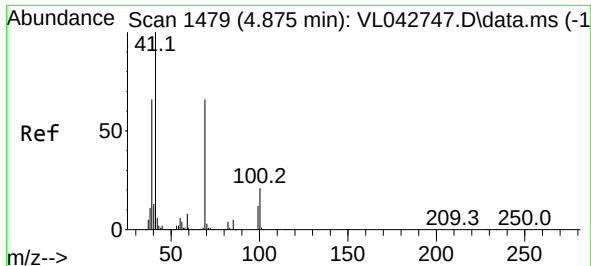
Tgt Ion: 42 Resp: 84
Ion Ratio Lower Upper
42 100
72 0.0 30.9 46.3#
71 0.0 28.6 43.0#



#42
Bromodichloromethane
Concen: 0.012 ppbv
RT: 4.470 min Scan# 1354
Delta R.T. -0.013 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 83 Resp: 390
Ion Ratio Lower Upper
83 100
85 0.8 50.2 75.4#
127 12.1 5.4 8.2#

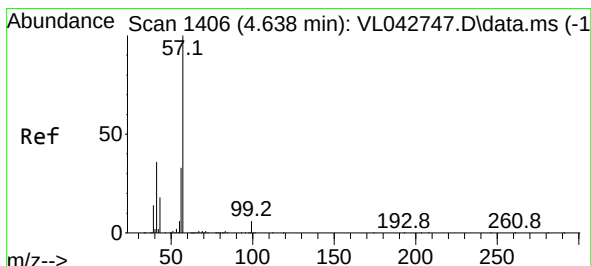
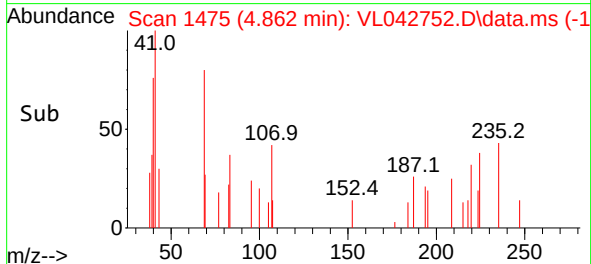
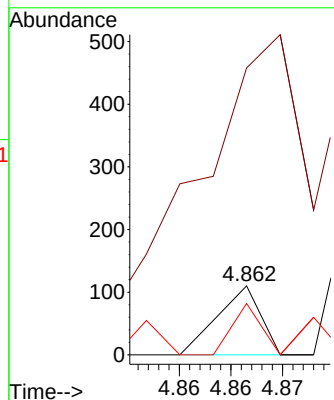
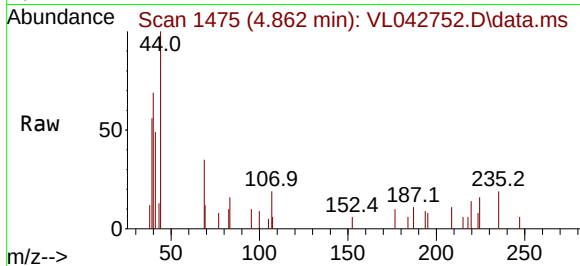




#43
Methyl Methacrylate
Concen: 0.002 ppbv
RT: 4.862 min Scan# 1475
Delta R.T. -0.013 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

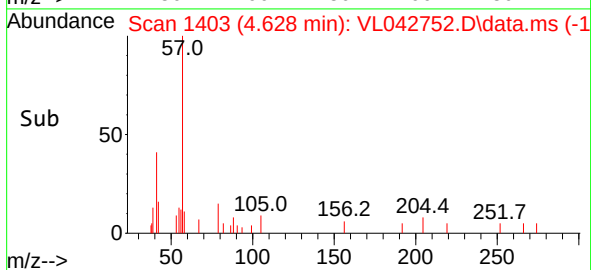
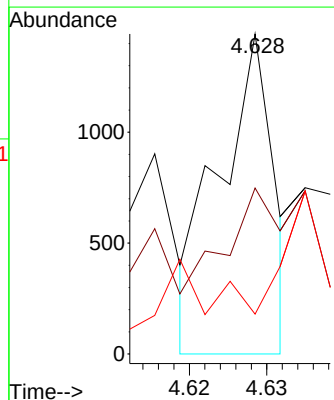
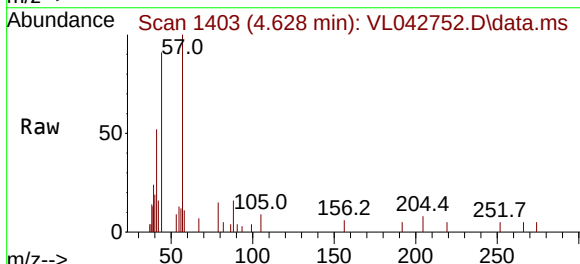
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

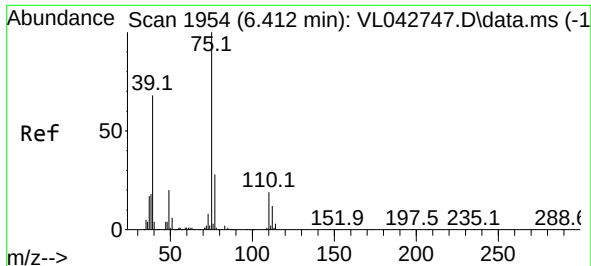
Tgt Ion: 69 Resp: 32
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5#
100 0.0 28.6 42.8#



#44
2,2,4-Trimethylpentane
Concen: 0.011 ppbv
RT: 4.628 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 57 Resp: 714
Ion Ratio Lower Upper
57 100
41 271.0 28.3 42.5#
56 132.9 25.8 38.6#





#45

t-1,3-Dichloropropene

Concen: 0.015 ppbv

RT: 6.392 min Scan# 1954

Delta R.T. -0.020 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

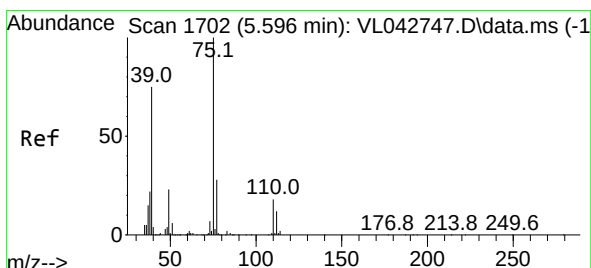
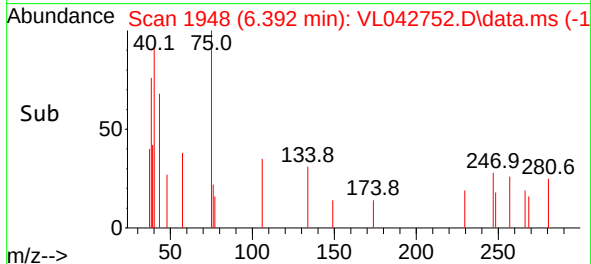
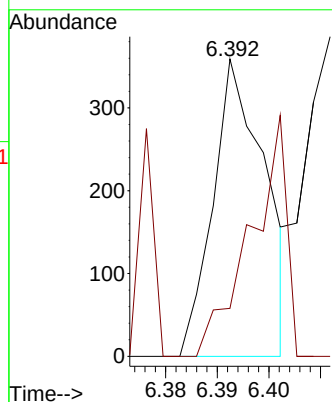
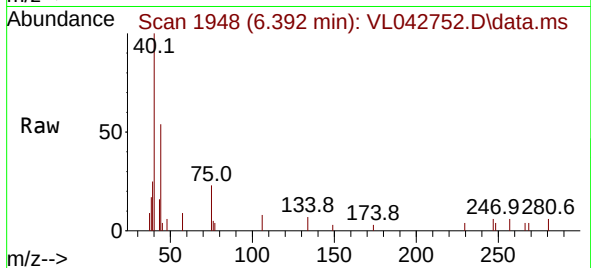
VSTDIC0.03

Tgt Ion: 75 Resp: 252

Ion Ratio Lower Upper

75 100

77 16.2 22.4 33.6#



#46

cis-1,3-Dichloropropene

Concen: 0.012 ppbv

RT: 5.590 min Scan# 1700

Delta R.T. -0.007 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

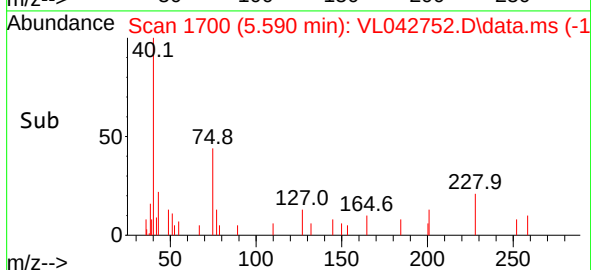
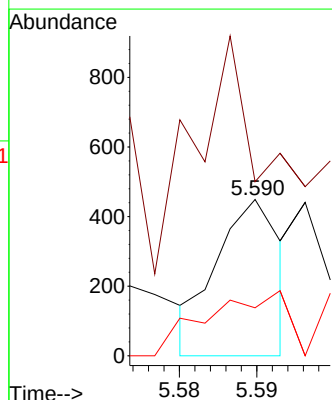
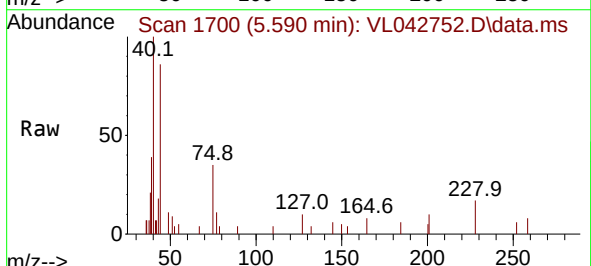
Tgt Ion: 75 Resp: 259

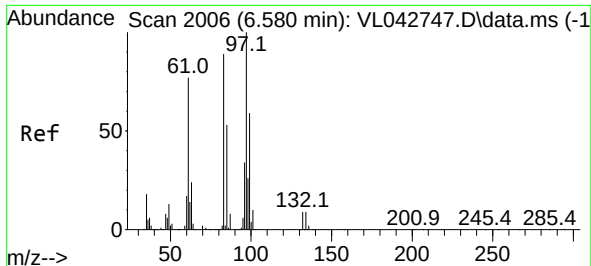
Ion Ratio Lower Upper

75 100

39 0.0 60.2 90.2#

77 9.9 22.6 34.0#





#47

1,1,2-Trichloroethane

Concen: 0.014 ppbv

RT: 6.570 min Scan# 20

Delta R.T. -0.010 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion: 97 Resp: 226

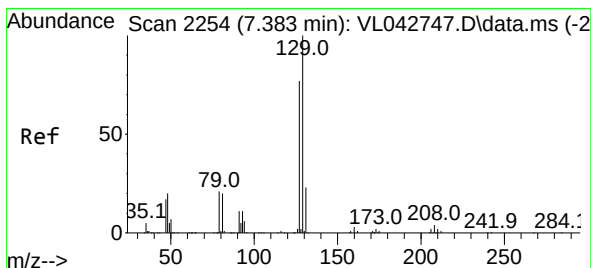
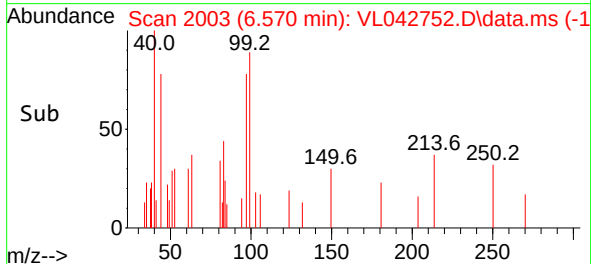
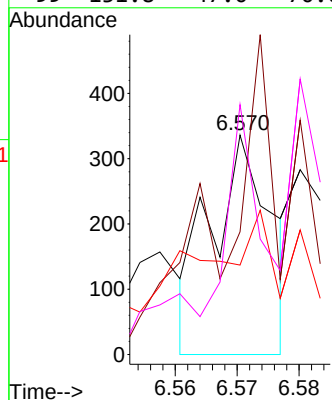
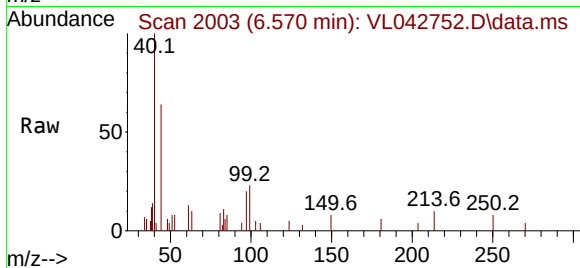
Ion Ratio Lower Upper

97 100

83 33.2 71.1 106.7#

85 23.2 43.0 64.4#

99 131.8 47.0 70.6#



#48

Dibromochloromethane

Concen: 0.008 ppbv

RT: 7.370 min Scan# 2250

Delta R.T. -0.013 min

Lab File: VL042752.D

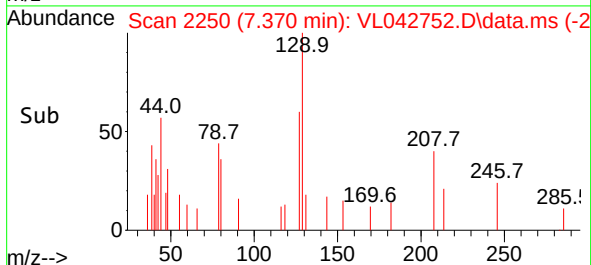
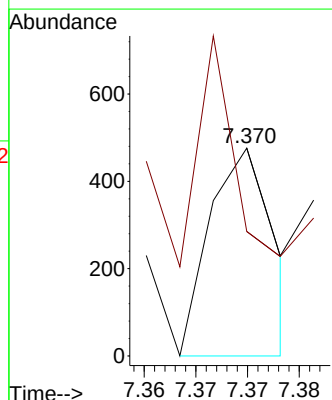
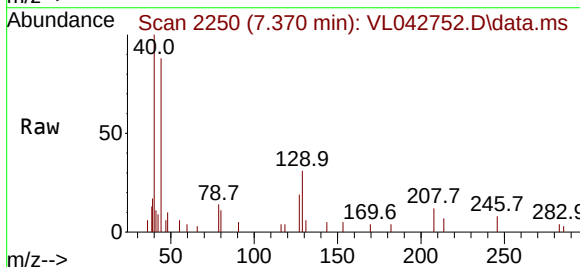
Acq: 23 Jul 2025 11:50

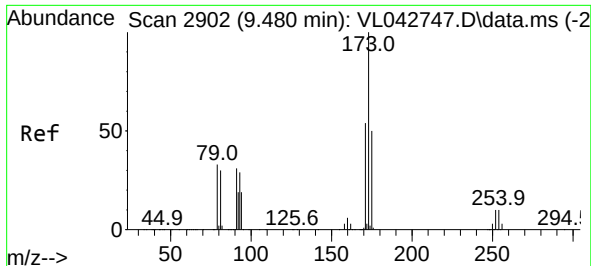
Tgt Ion: 129 Resp: 206

Ion Ratio Lower Upper

129 100

127 397.1 38.7 116.1#





#49

Bromoform

Concen: 0.015 ppbv

RT: 9.470 min Scan# 21

Delta R.T. -0.010 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

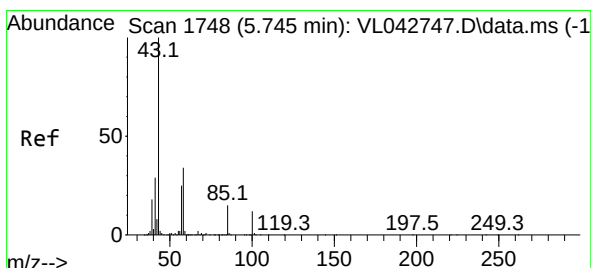
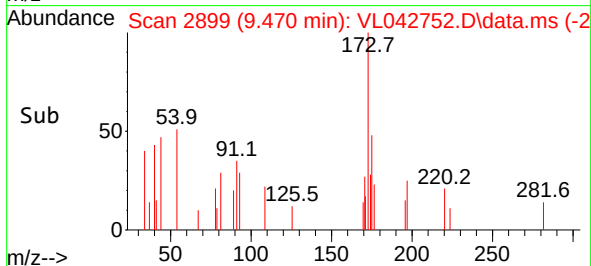
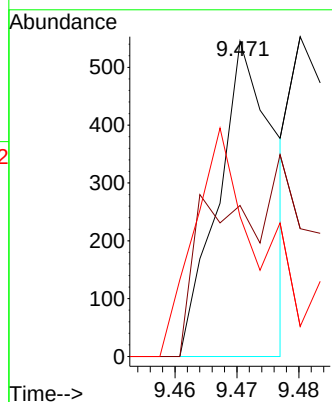
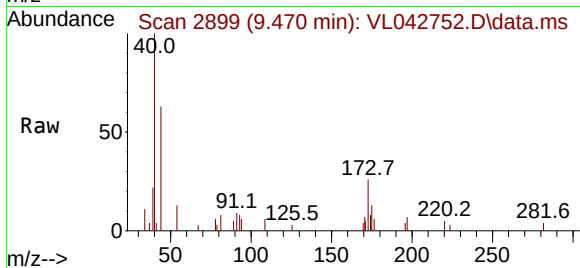
Tgt Ion:173 Resp: 346

Ion Ratio Lower Upper

173 100

175 0.0 38.4 57.6#

171 97.1 40.9 61.3#



#50

4-Methyl-2-Pentanone

Concen: 0.004 ppbv

RT: 5.742 min Scan# 1747

Delta R.T. -0.003 min

Lab File: VL042752.D

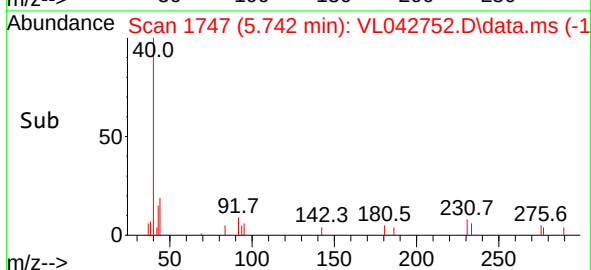
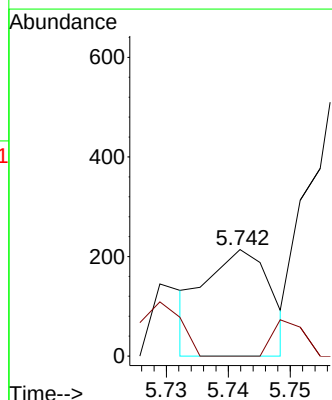
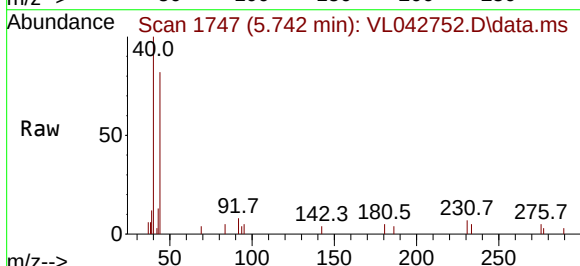
Acq: 23 Jul 2025 11:50

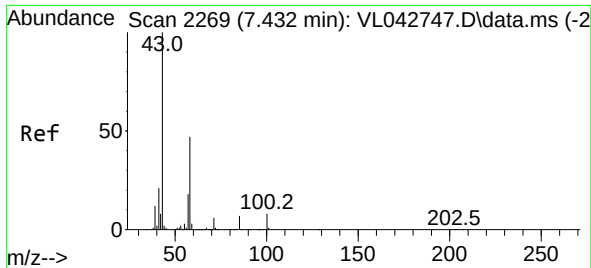
Tgt Ion: 43 Resp: 157

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.8#

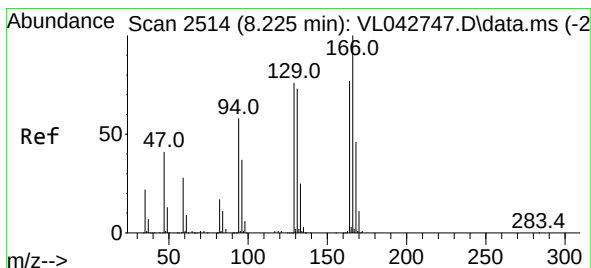
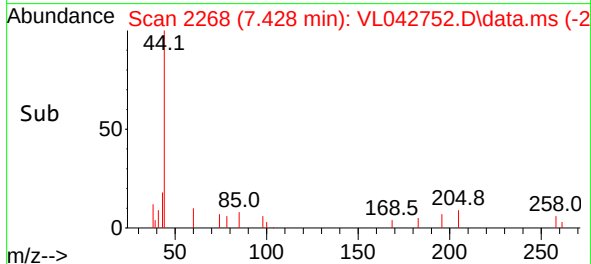
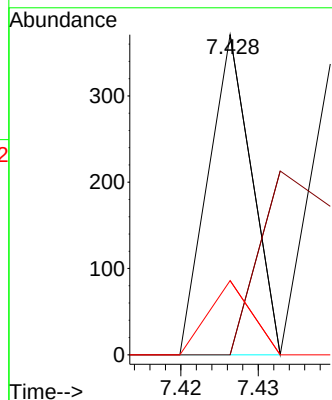
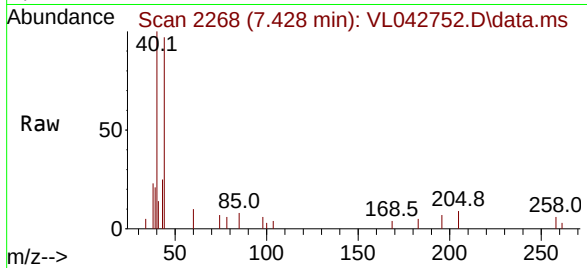




#51
2-Hexanone
Concen: 0.002 ppbv
RT: 7.428 min Scan# 2111
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

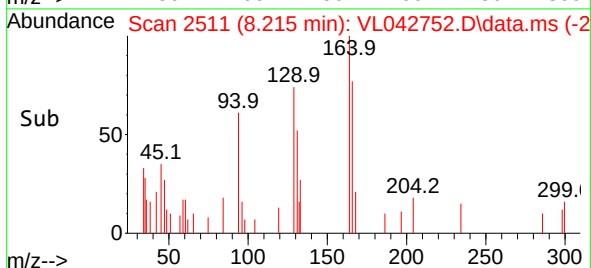
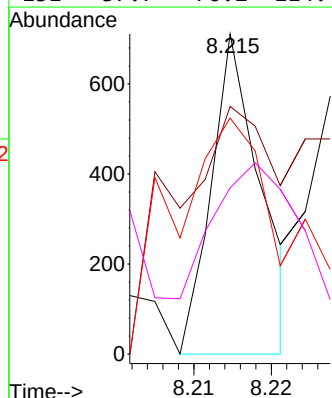
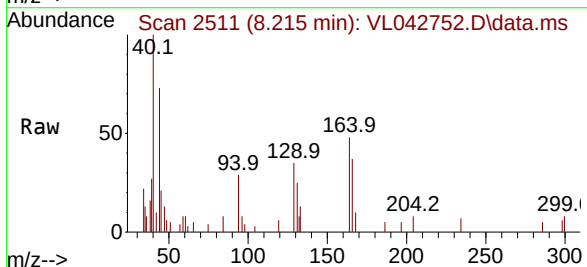
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

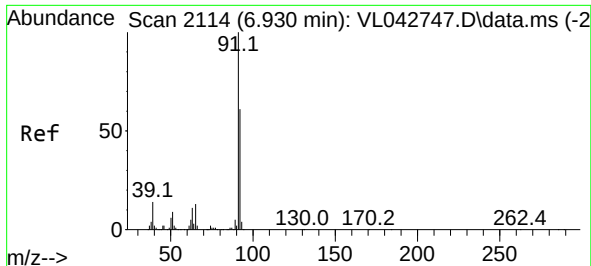
Tgt Ion: 43 Resp: 72
Ion Ratio Lower Upper
43 100
58 0.0 38.0 57.0#
98 0.0 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.019 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 164 Resp: 317
Ion Ratio Lower Upper
164 100
166 34.6 104.0 156.0#
129 50.2 79.2 118.8#
131 37.7 76.2 114.4#

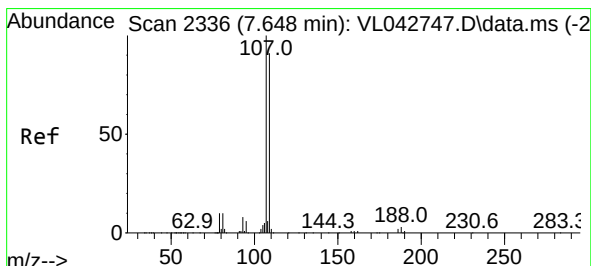
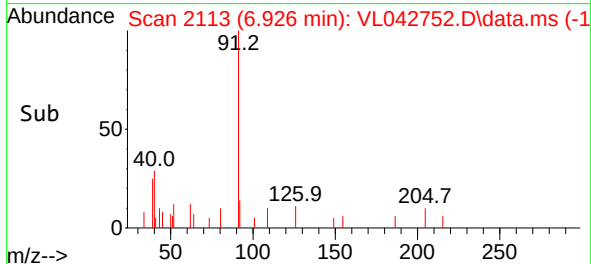
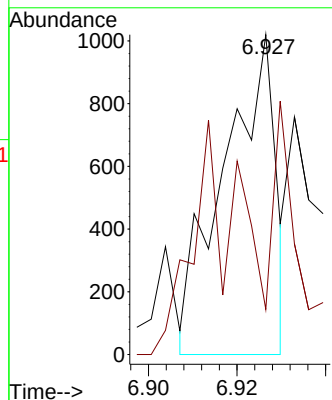
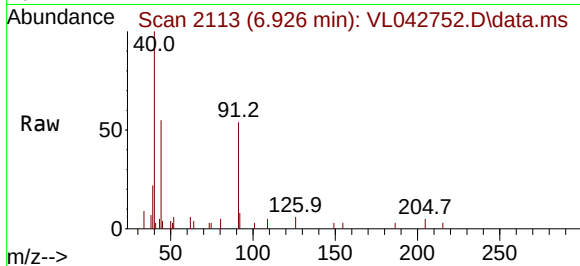




#53
Toluene
Concen: 0.019 ppbv
RT: 6.926 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

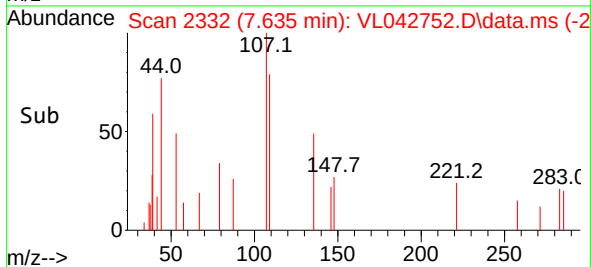
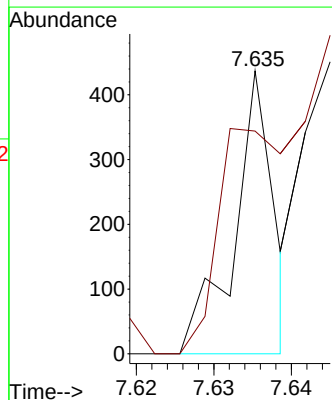
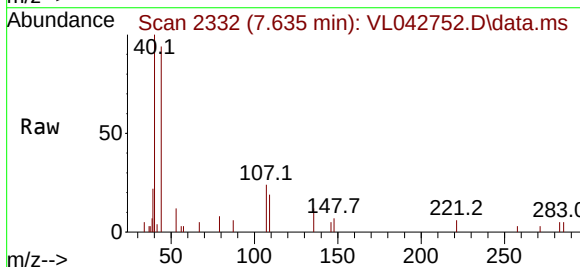
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

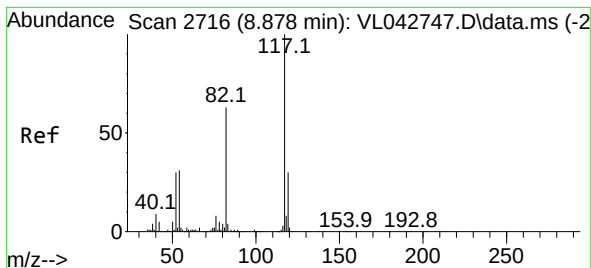
Tgt Ion: 91 Resp: 832
Ion Ratio Lower Upper
91 100
92 0.0 48.0 72.0#



#54
1,2-Dibromoethane
Concen: 0.007 ppbv
RT: 7.635 min Scan# 2332
Delta R.T. -0.013 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 107 Resp: 155
Ion Ratio Lower Upper
107 100
109 78.7 72.7 109.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

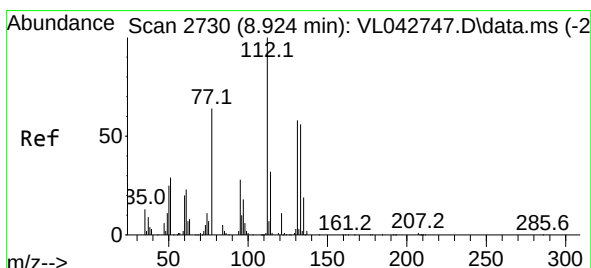
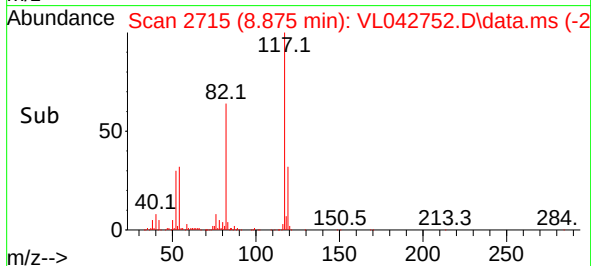
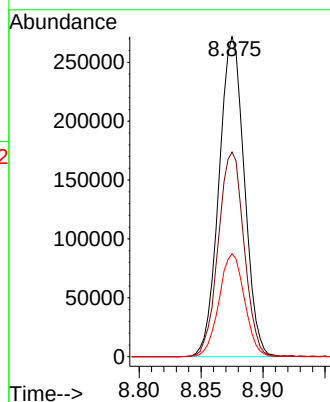
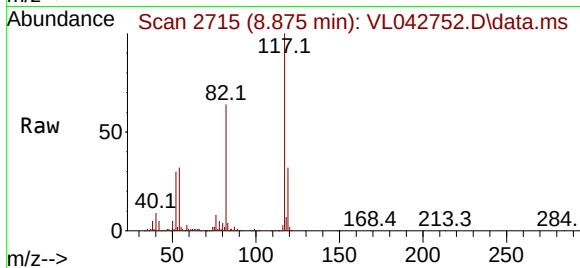
Tgt Ion:117 Resp: 387541

Ion Ratio Lower Upper

117 100

82 65.0 53.3 79.9

119 32.6 25.8 38.6



#56

1,1,1,2-Tetrachloroethane

Concen: 0.023 ppbv

RT: 8.924 min Scan# 2730

Delta R.T. -0.000 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

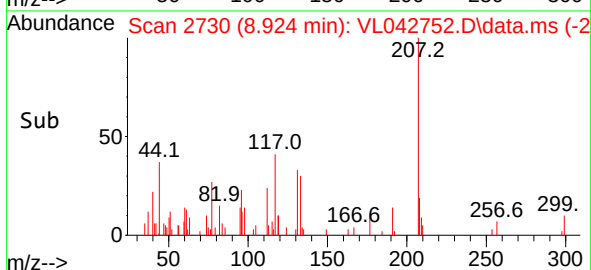
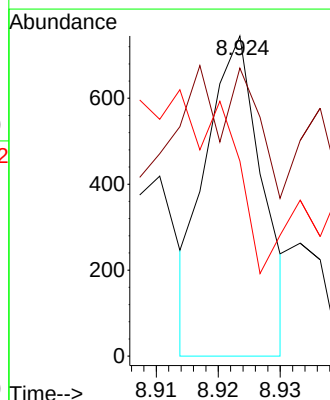
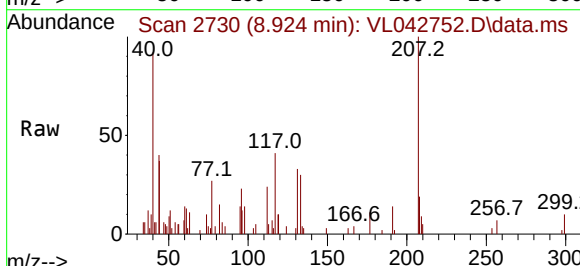
Tgt Ion:131 Resp: 471

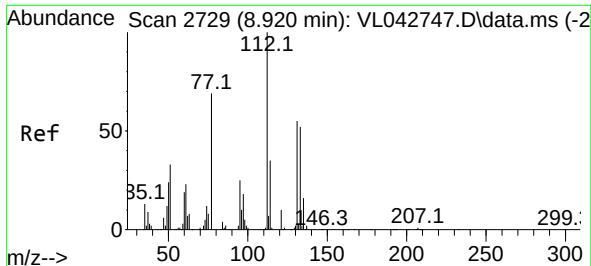
Ion Ratio Lower Upper

131 100

133 307.0 76.8 115.2#

119 0.0 49.7 74.5#





#57

Chlorobenzene

Concen: 0.023 ppbv

RT: 8.914 min Scan# 21

Delta R.T. -0.007 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

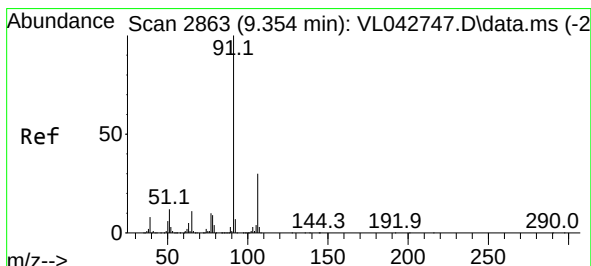
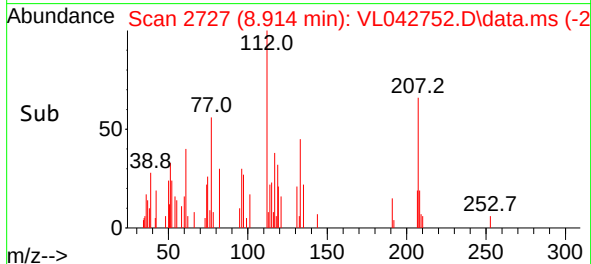
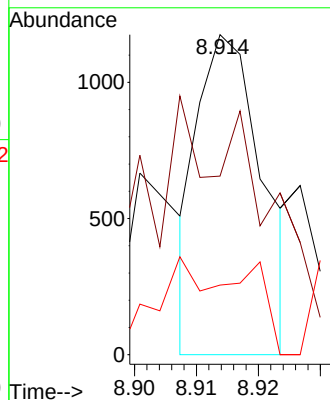
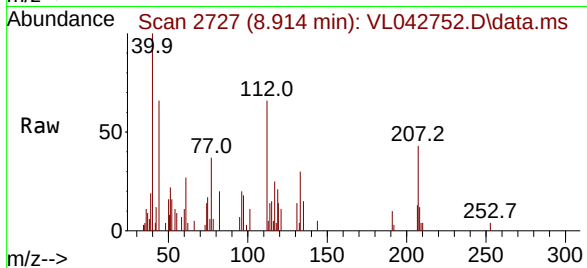
Tgt Ion:112 Resp: 852

Ion Ratio Lower Upper

112 100

77 9.3 56.4 84.6#

114 38.4 31.2 38.2#



#58

Ethyl Benzene

Concen: 0.014 ppbv

RT: 9.344 min Scan# 2860

Delta R.T. -0.010 min

Lab File: VL042752.D

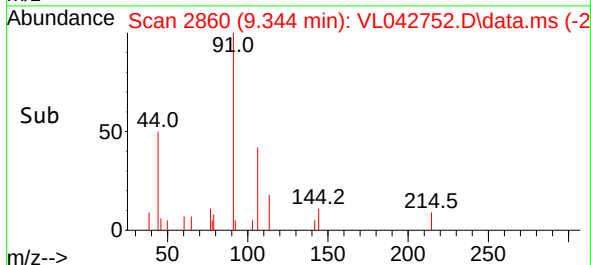
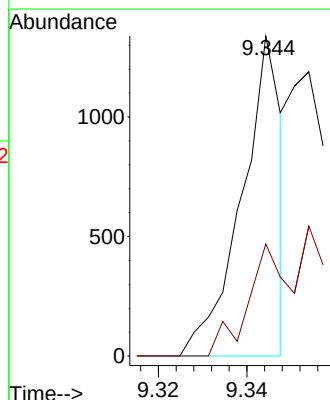
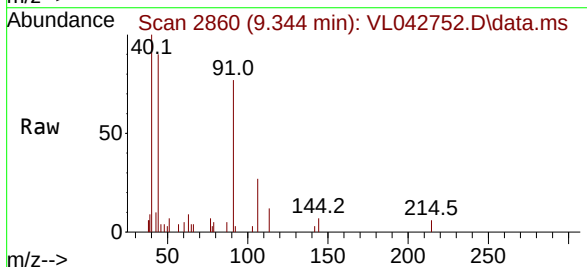
Acq: 23 Jul 2025 11:50

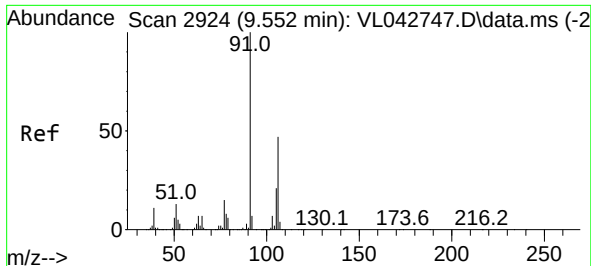
Tgt Ion: 91 Resp: 837

Ion Ratio Lower Upper

91 100

106 35.0 23.8 35.6





#59

m/p-Xylene

Concen: 0.022 ppbv

RT: 9.548 min Scan# 29

Delta R.T. -0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

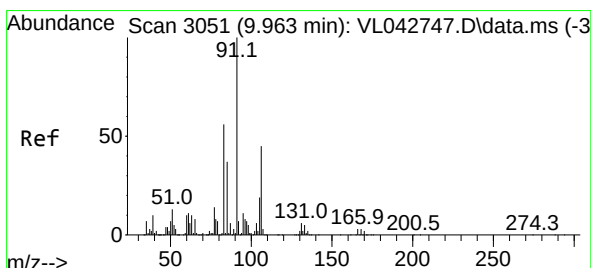
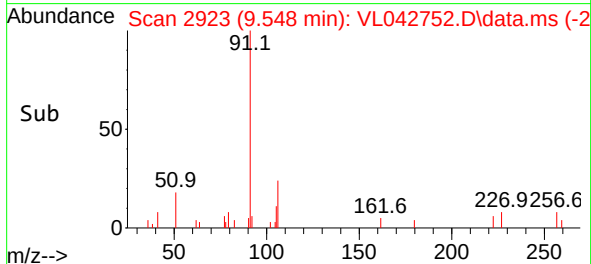
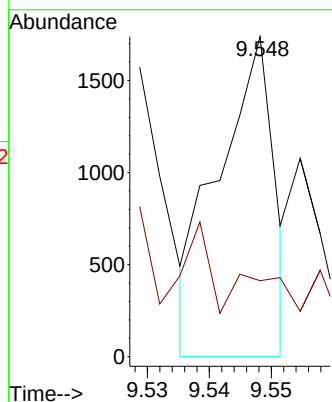
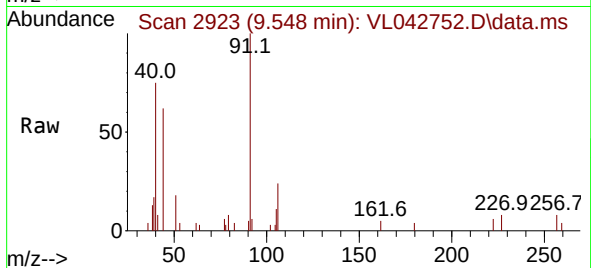
VSTDICC0.03

Tgt Ion: 91 Resp: 1097

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#



#60

o-Xylene

Concen: 0.029 ppbv

RT: 9.953 min Scan# 3048

Delta R.T. -0.010 min

Lab File: VL042752.D

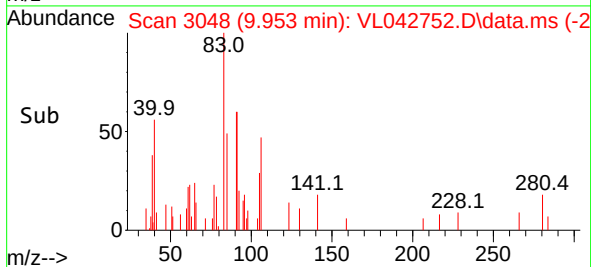
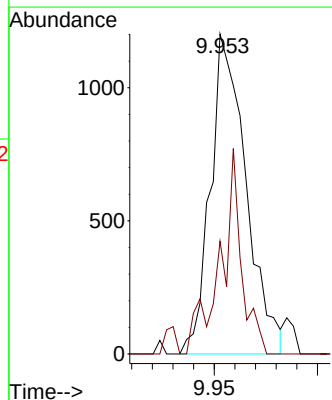
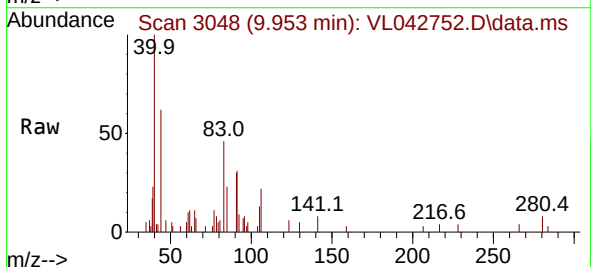
Acq: 23 Jul 2025 11:50

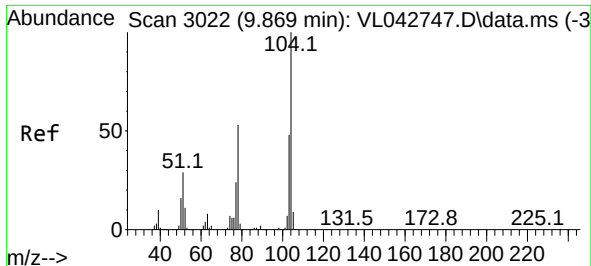
Tgt Ion: 91 Resp: 1440

Ion Ratio Lower Upper

91 100

106 41.0 22.0 66.0

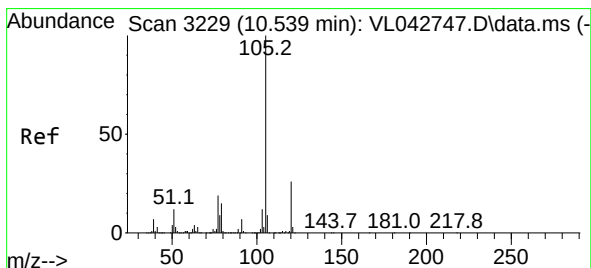
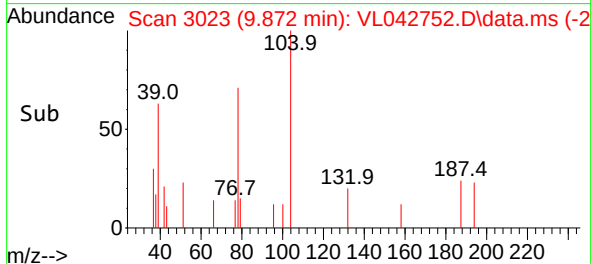
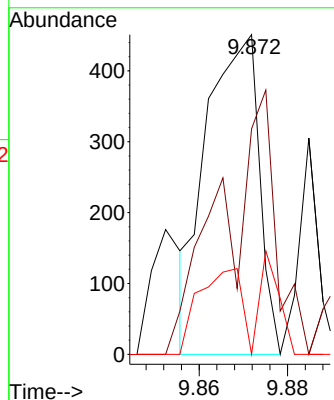
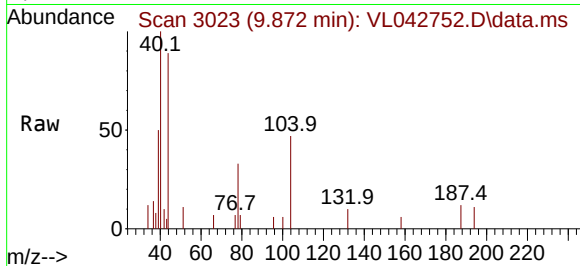




#61
 Styrene
 Concen: 0.018 ppbv
 RT: 9.872 min Scan# 3022
 Delta R.T. 0.003 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

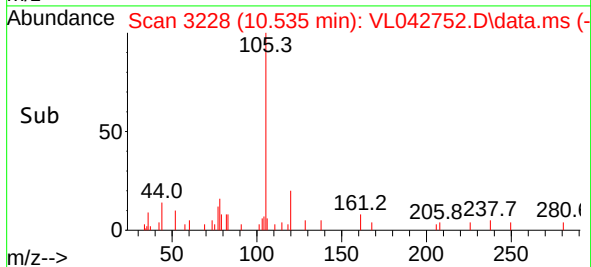
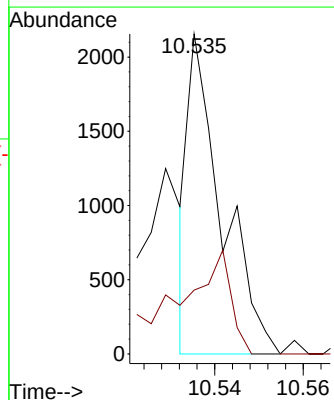
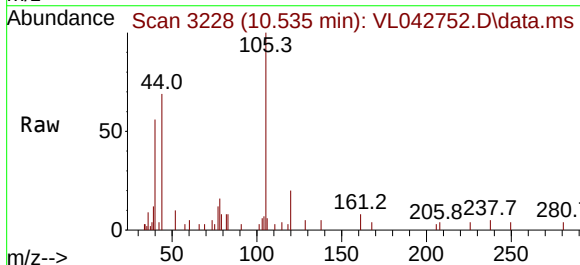
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

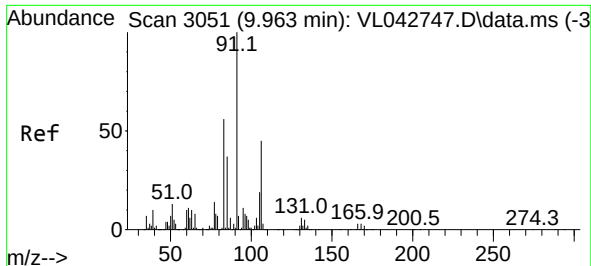
Tgt Ion:104 Resp: 373
 Ion Ratio Lower Upper
 104 100
 78 95.4 41.5 62.3#
 103 33.5 37.5 56.3#



#62
 Isopropylbenzene
 Concen: 0.016 ppbv
 RT: 10.535 min Scan# 3228
 Delta R.T. -0.003 min
 Lab File: VL042752.D
 Acq: 23 Jul 2025 11:50

Tgt Ion:105 Resp: 1137
 Ion Ratio Lower Upper
 105 100
 120 52.0 20.5 30.7#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.022 ppbv

RT: 9.959 min Scan# 3051

Delta R.T. -0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

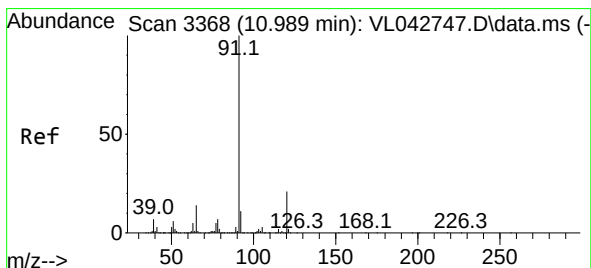
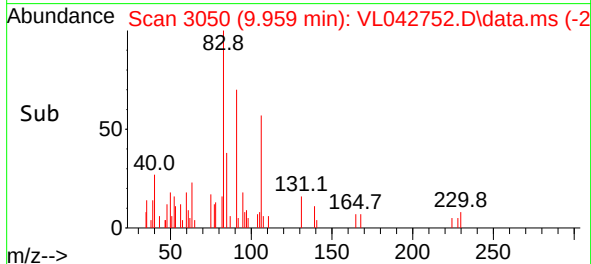
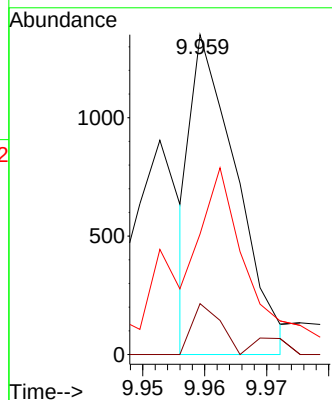
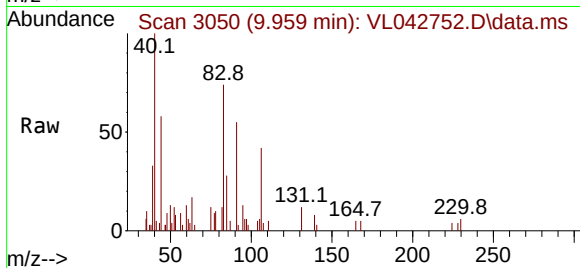
Tgt Ion: 83 Resp: 685

Ion Ratio Lower Upper

83 100

131 14.2 5.0 15.0

85 102.5 32.6 97.7#



#64

n-propylbenzene

Concen: 0.025 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.003 min

Lab File: VL042752.D

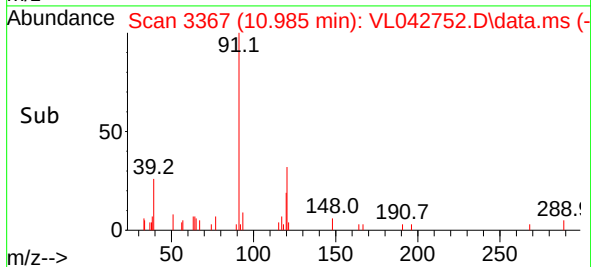
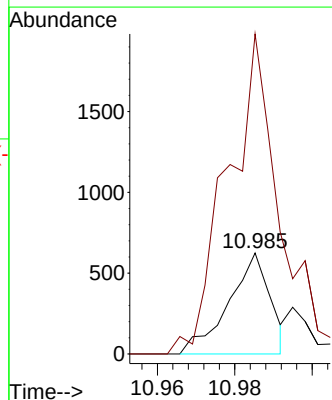
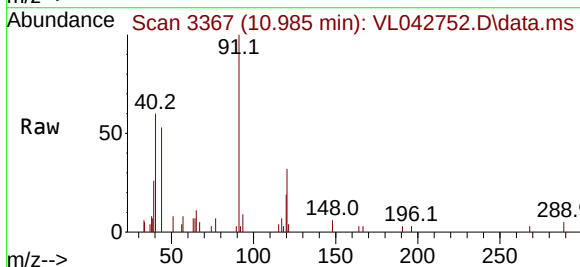
Acq: 23 Jul 2025 11:50

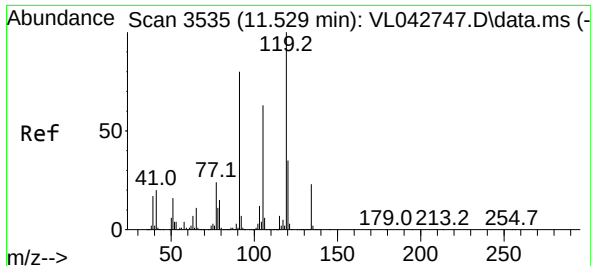
Tgt Ion: 120 Resp: 465

Ion Ratio Lower Upper

120 100

91 408.8 372.7 559.1

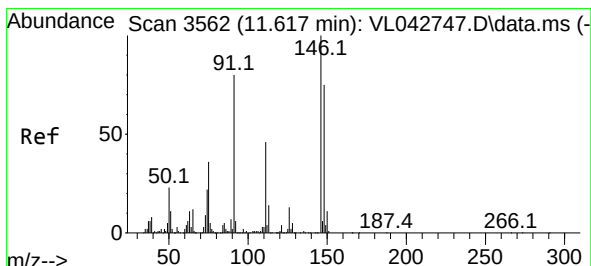
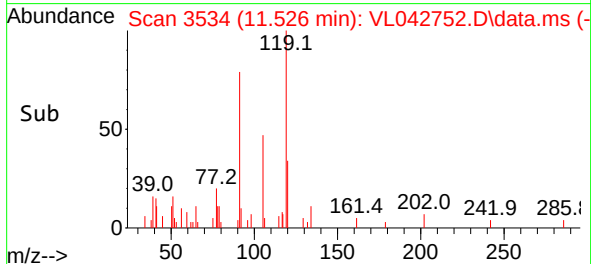
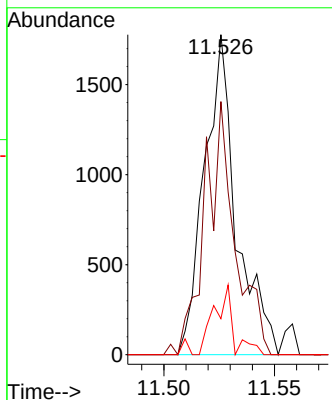
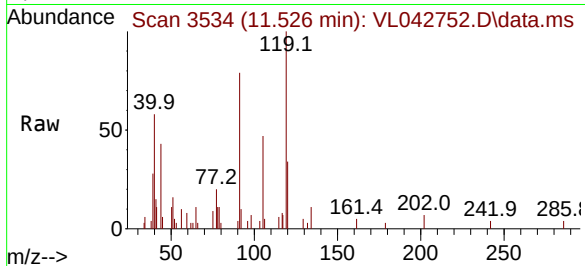




#65
tert-Butylbenzene
Concen: 0.028 ppbv
RT: 11.526 min Scan# 311
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

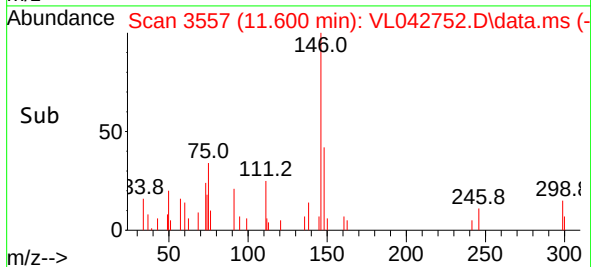
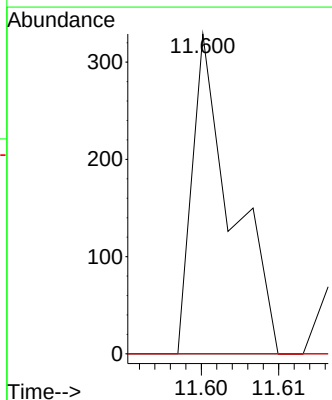
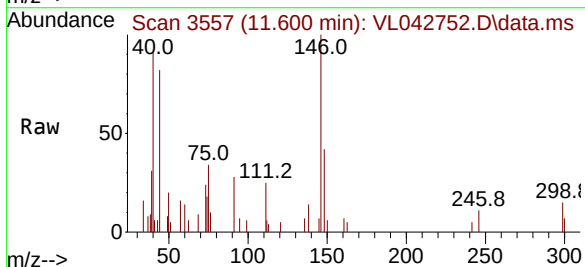
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

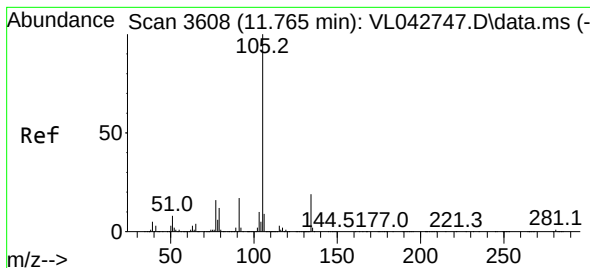
Tgt Ion:	119	Resp:	1786
Ion	Ratio	Lower	Upper
119	100		
91	74.6	64.0	96.0
134	14.2	17.3	25.9#



#66
Benzyl Chloride
Concen: 0.022 ppbv
RT: 11.600 min Scan# 3557
Delta R.T. -0.016 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:	91	Resp:	118
Ion	Ratio	Lower	Upper
91	100		
126	38.1	14.4	21.6#
128	0.0	5.2	7.8#





#67

sec-Butylbenzene

Concen: 0.016 ppbv

RT: 11.529 min Scan# 3177

Delta R.T. -0.236 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

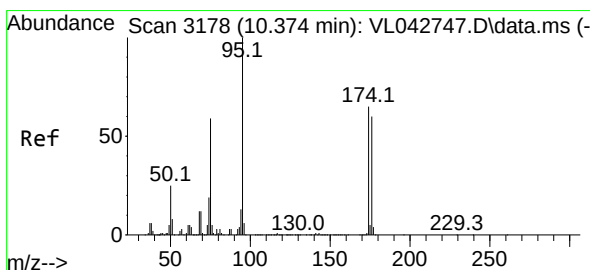
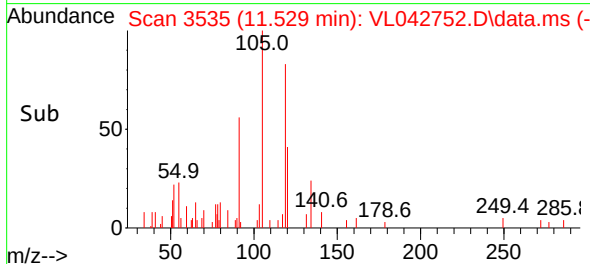
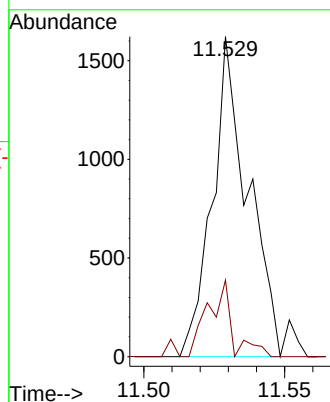
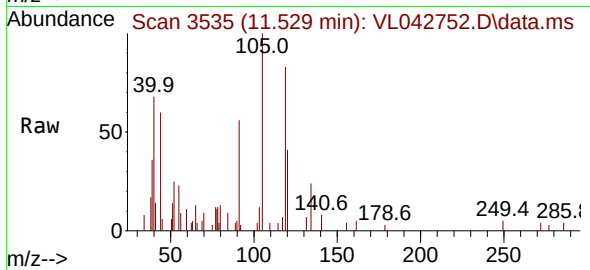
VSTDIC0.03

Tgt Ion:105 Resp: 1421

Ion Ratio Lower Upper

105 100

134 17.8 15.5 23.3



#68

1-Bromo-4-Fluorobenzene

Concen: 9.845 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. -0.003 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

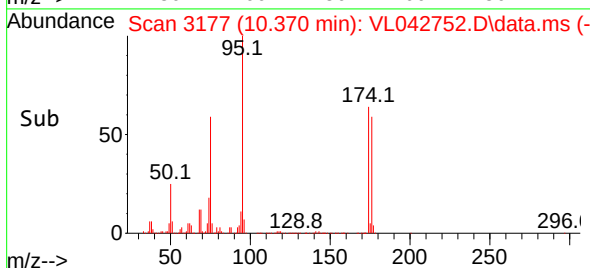
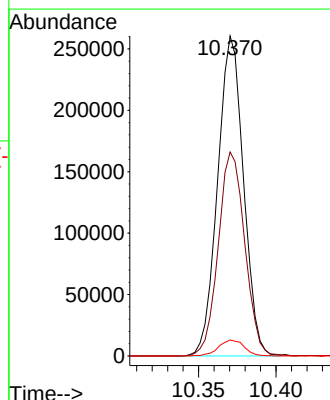
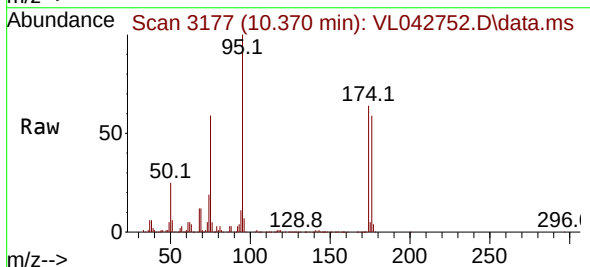
Tgt Ion: 95 Resp: 302164

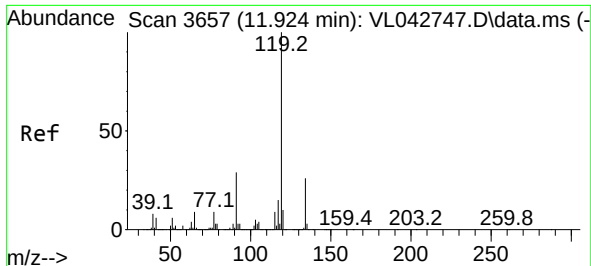
Ion Ratio Lower Upper

95 100

174 65.6 53.8 80.6

175 5.0 4.0 6.0

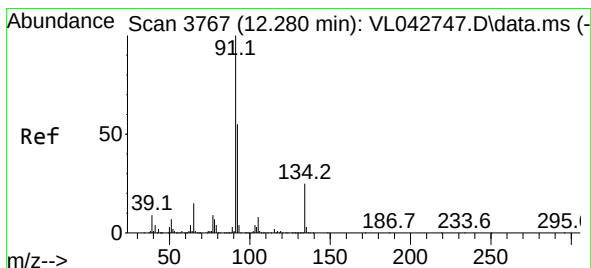
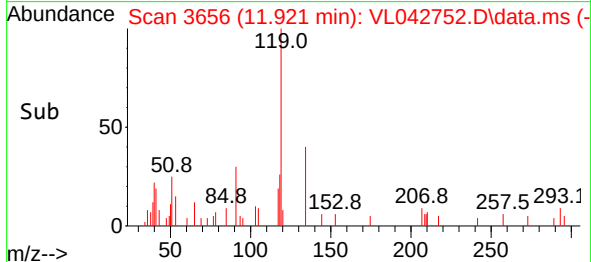
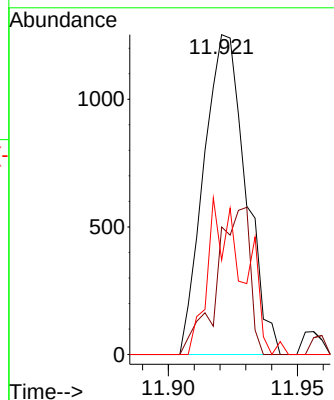
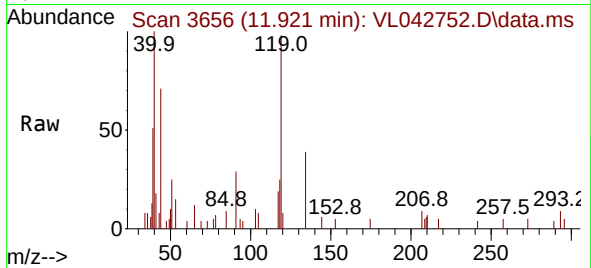




#69
p-Isopropyltoluene
Concen: 0.019 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

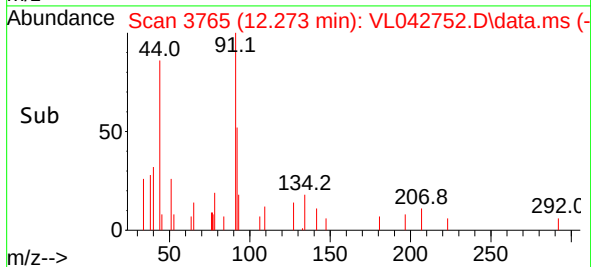
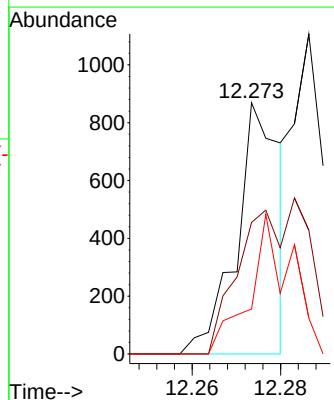
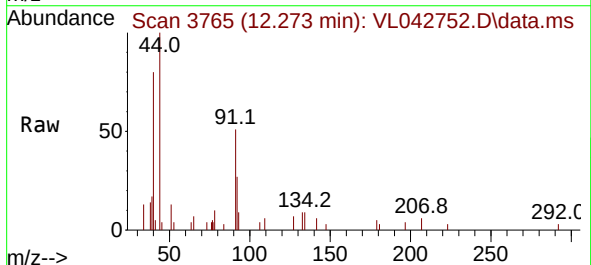
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

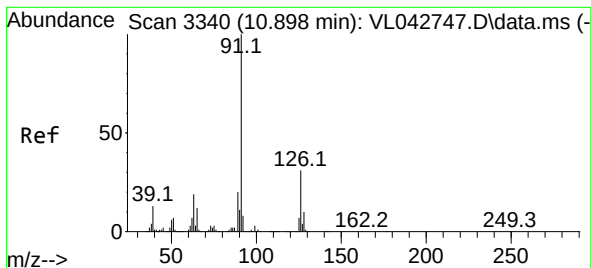
Tgt Ion:119 Resp: 1420
Ion Ratio Lower Upper
119 100
134 36.6 20.6 31.0#
91 41.5 23.2 34.8#



#70
n-Butylbenzene
Concen: 0.008 ppbv
RT: 12.273 min Scan# 3765
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 91 Resp: 591
Ion Ratio Lower Upper
91 100
92 0.0 43.4 65.2#
134 62.9 19.6 29.4#

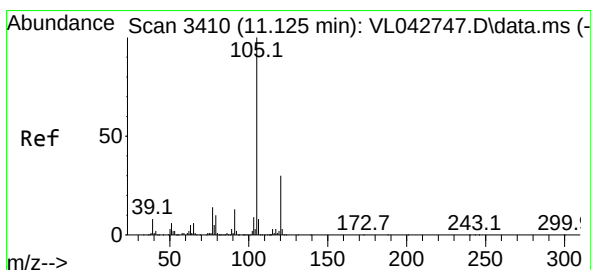
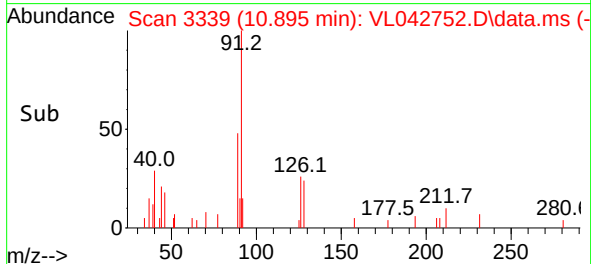
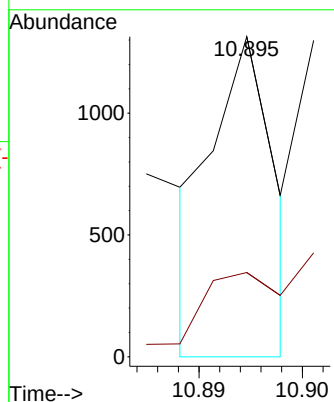
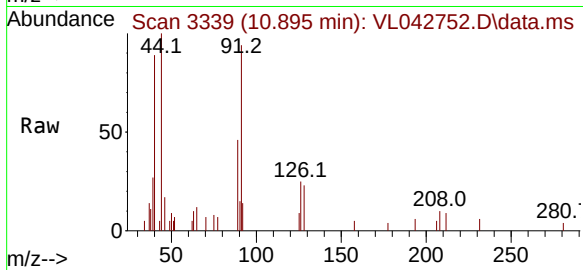




#71
2-Chlorotoluene
Concen: 0.010 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

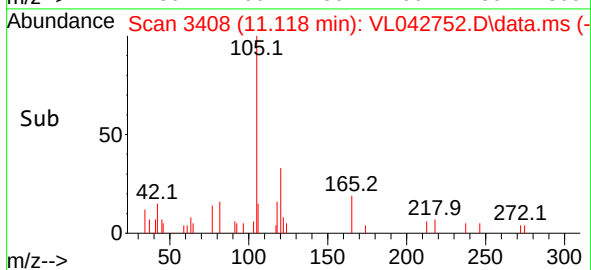
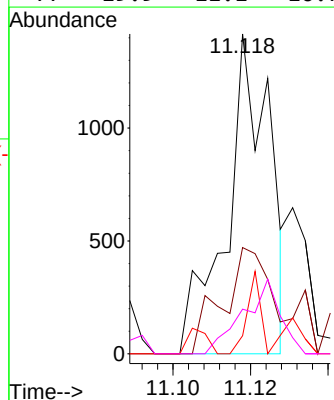
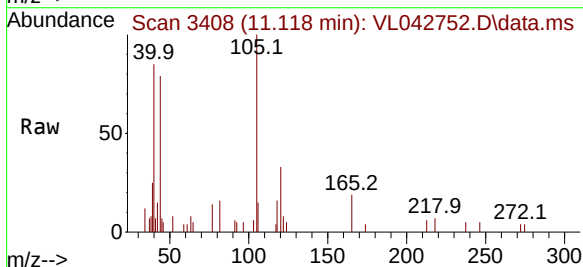
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

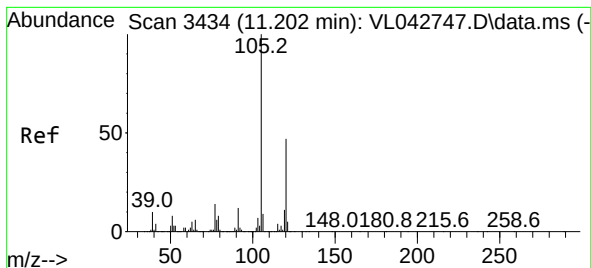
Tgt Ion: 91 Resp: 547
Ion Ratio Lower Upper
91 100
126 0.0 12.0 48.2#



#72
4-Ethyltoluene
Concen: 0.019 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion: 105 Resp: 1098
Ion Ratio Lower Upper
105 100
120 48.5 24.4 36.6#
91 11.5 10.6 15.8
77 19.9 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.025 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. -0.000 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

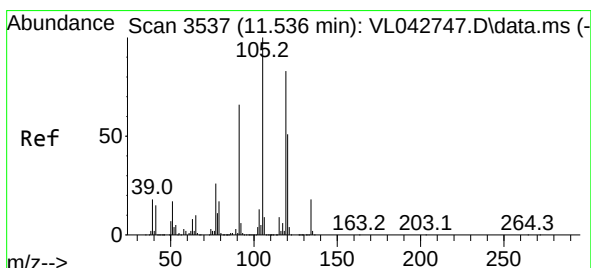
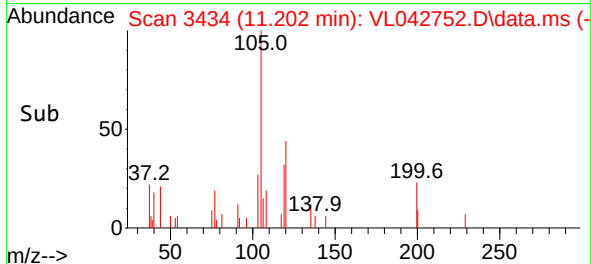
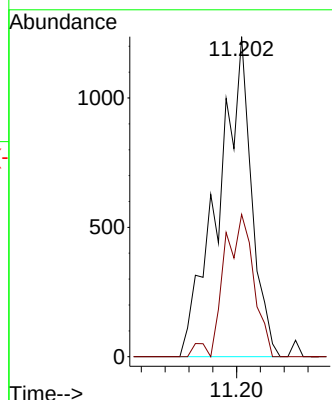
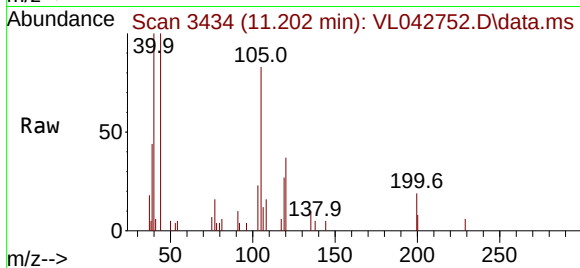
VSTDIC0.03

Tgt Ion:105 Resp: 1204

Ion Ratio Lower Upper

105 100

120 44.5 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 0.027 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.007 min

Lab File: VL042752.D

Acq: 23 Jul 2025 11:50

Tgt Ion:105 Resp: 1421

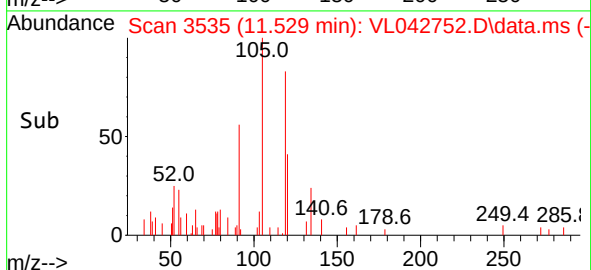
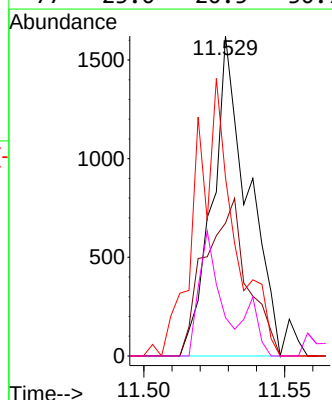
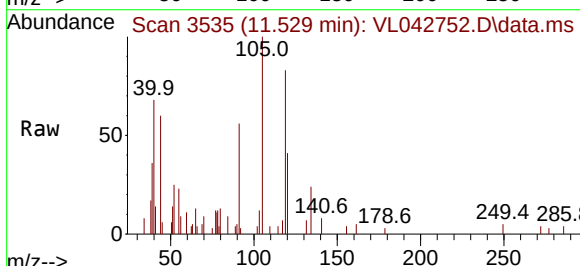
Ion Ratio Lower Upper

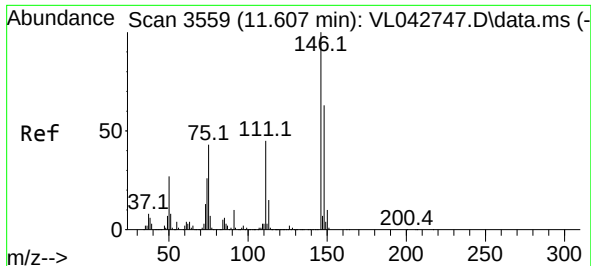
105 100

120 41.5 40.8 61.2

91 55.8 53.0 79.4

77 23.0 20.5 30.7

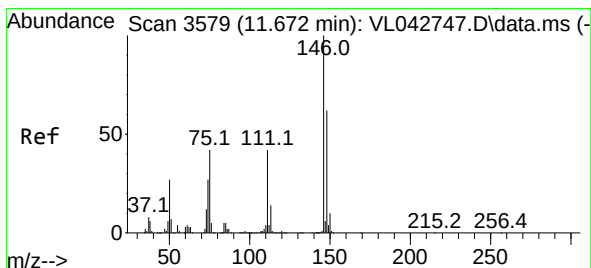
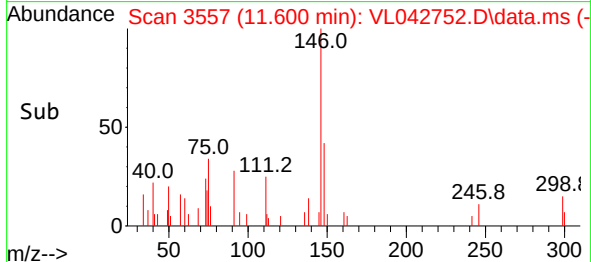
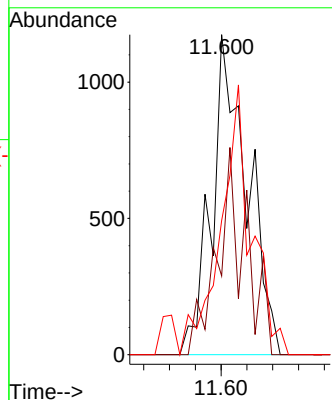
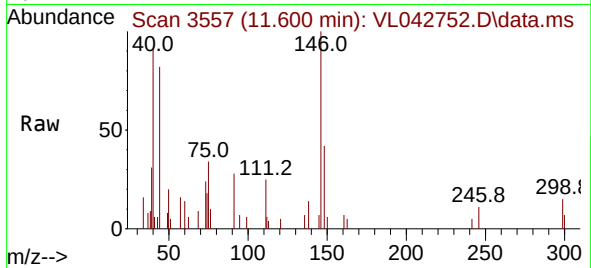




#75
1,3-Dichlorobenzene
Concen: 0.031 ppbv
RT: 11.600 min Scan# 3557
Delta R.T. -0.007 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

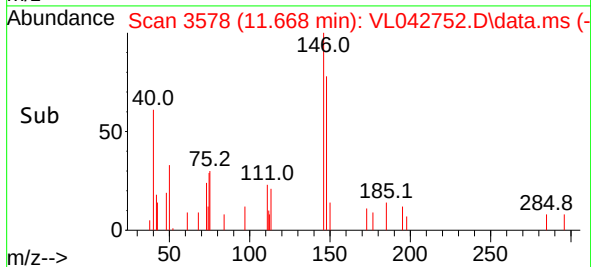
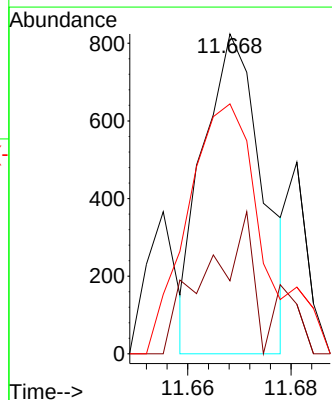
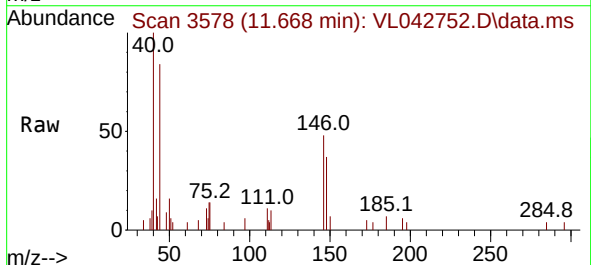
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

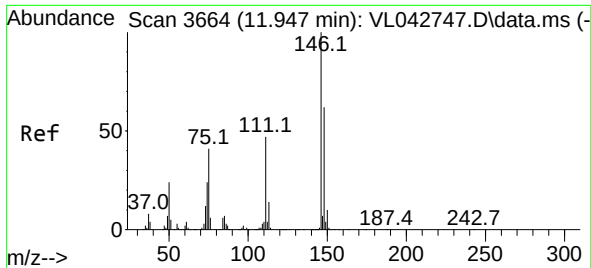
Tgt Ion:146 Resp: 1122
Ion Ratio Lower Upper
146 100
111 51.6 22.7 68.0
148 77.2 31.9 95.5



#76
1,4-Dichlorobenzene
Concen: 0.018 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:146 Resp: 658
Ion Ratio Lower Upper
146 100
111 45.9 21.4 64.2
148 99.2 32.1 96.3#

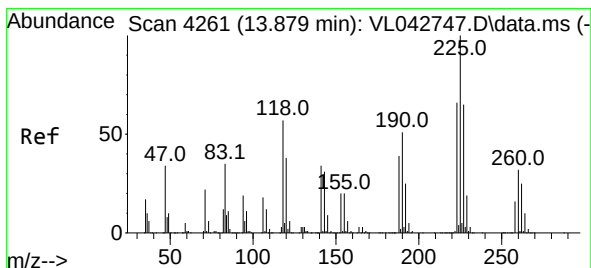
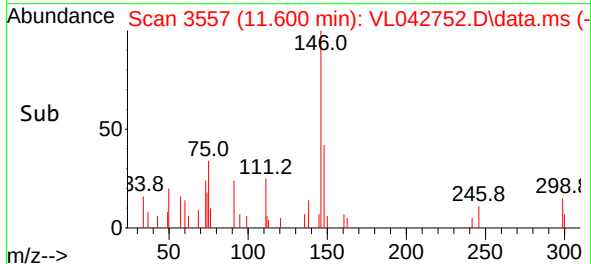
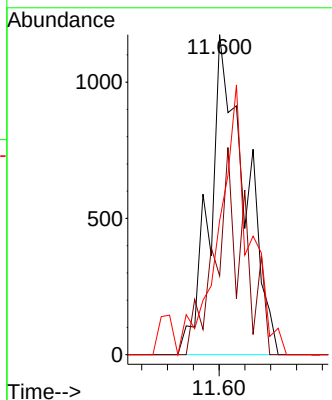
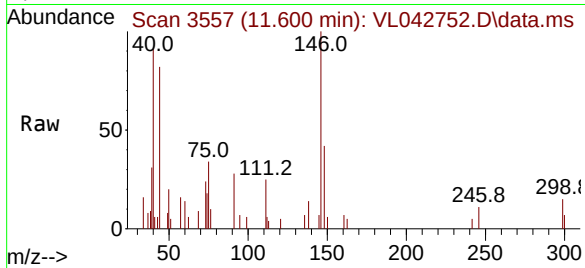




#77
1,2-Dichlorobenzene
Concen: 0.031 ppbv
RT: 11.600 min Scan# 311
Delta R.T. -0.347 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

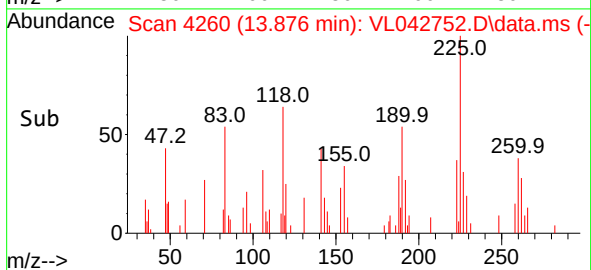
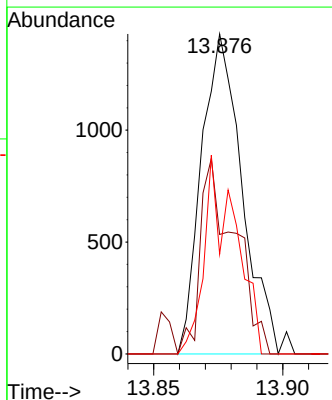
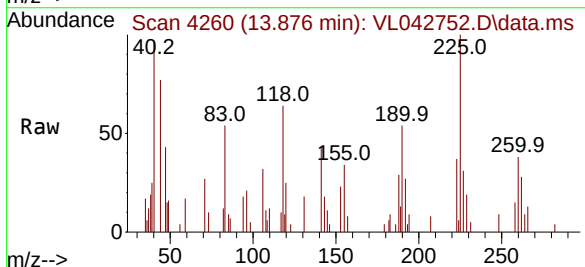
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

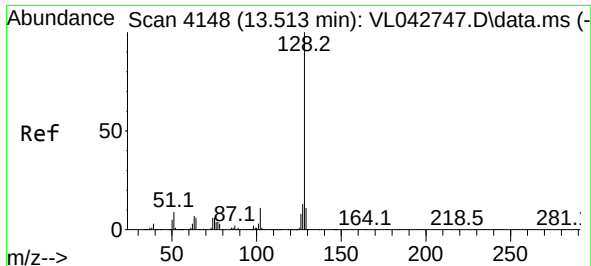
Tgt Ion:146 Resp: 1122
Ion Ratio Lower Upper
146 100
111 51.6 23.7 71.1
148 77.2 32.6 97.7



#78
Hexachloro-1,3-Butadiene
Concen: 0.048 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:225 Resp: 1559
Ion Ratio Lower Upper
225 100
223 56.2 50.7 76.1
227 47.8 50.5 75.7#

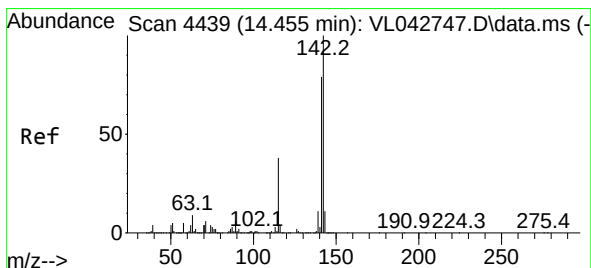
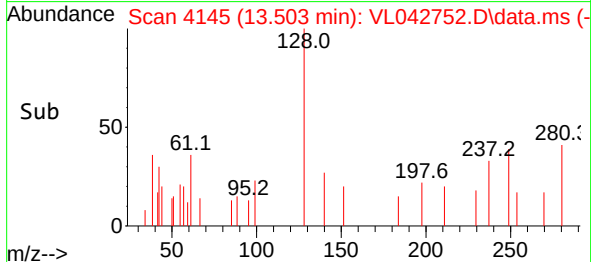
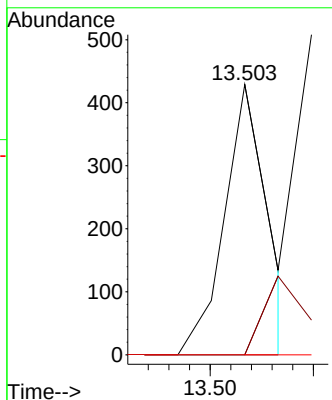
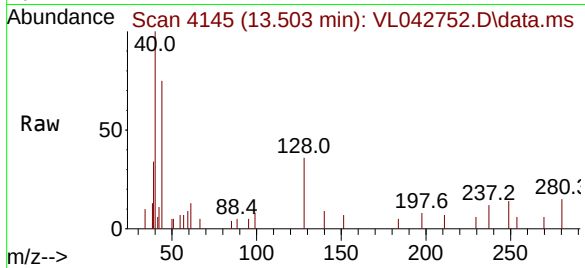




#79
Naphthalene
Concen: 0.436 ppbv
RT: 13.503 min Scan# 4148
Delta R.T. -0.010 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

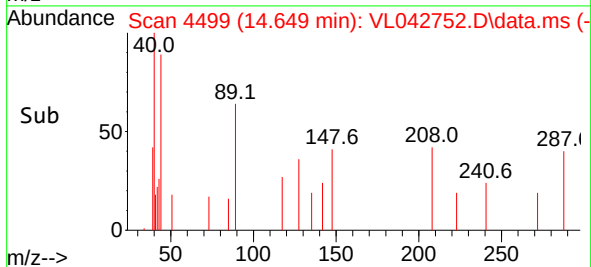
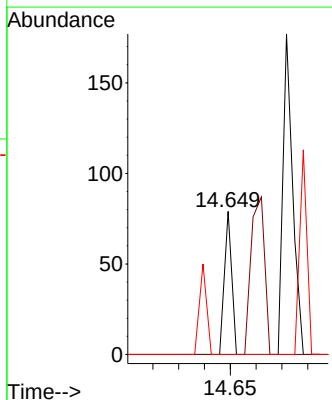
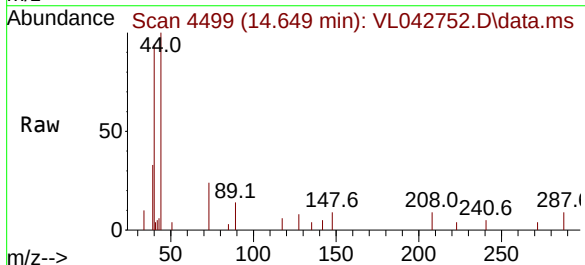
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

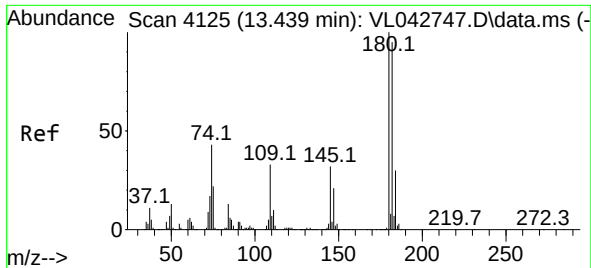
Tgt Ion:128 Resp: 126
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.6 13.0#



#80
Naphthalene,2-methyl-
Concen: 1.127 ppbv
RT: 14.649 min Scan# 4499
Delta R.T. 0.194 min
Lab File: VL042752.D
Acq: 23 Jul 2025 11:50

Tgt Ion:142 Resp: 15
Ion Ratio Lower Upper
142 100
141 0.0 65.8 98.8#
115 66.7 31.2 46.8#





#81

1,2,4-Trichlorobenzene

Concen: 0.438 ppbv

RT: 13.439 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042752.D

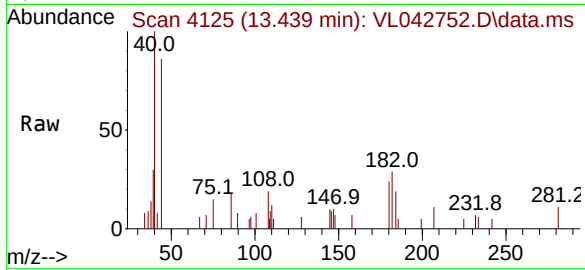
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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03



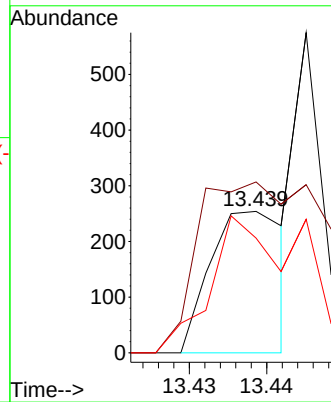
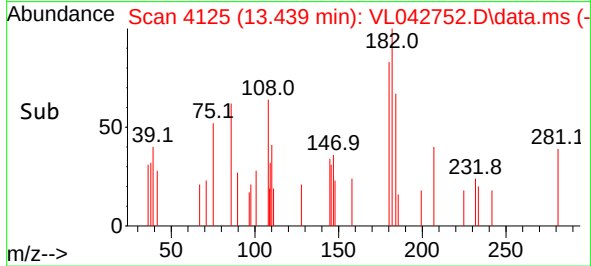
Tgt Ion:180 Resp: 170

Ion Ratio Lower Upper

180 100

182 0.0 76.2 114.2#

184 116.5 24.8 37.2#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042753.D
 Acq On : 23 Jul 2025 12:26
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Jul 24 05:00:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	150331	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	427438	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	385223	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 315293 10.335 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.400%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.496	85	277045	13.938 ppbv	98
3) Chlorodifluoromethane	1.473	51	353451	13.651 ppbv	98
4) Chloromethane	1.531	50	111684	13.889 ppbv	96
5) Vinyl Chloride	1.577	62	98596	12.410 ppbv	96
6) Bromomethane	1.667	94	44144	14.372 ppbv	92
7) Chloroethane	1.703	64	40909	13.327 ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	229298	14.028 ppbv	99
9) Propene	1.483	41	129069	13.716 ppbv	99
10) Heptane	4.972	43	368612	14.563 ppbv	99
11) Trichlorofluoromethane	1.874	101	289764	14.143 ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	223552	14.358 ppbv	99
13) Ethanol	1.719	45	11145	15.142 ppbv	86
14) Bromoethene	1.780	108	77435	14.047 ppbv	98
15) Acetone	1.832	43	237665	11.449 ppbv	98
16) 1,3-Butadiene	1.606	39	118252	13.355 ppbv	99
17) tert-Butyl alcohol	2.036	59	260587	13.919 ppbv	98
18) 1,1-Dichloroethene	2.030	96	94140	13.382 ppbv	93
19) Isopropyl Alcohol	1.881	45	149463	13.549 ppbv	99
20) Methylene Chloride	2.059	84	82755	12.651 ppbv	97
21) Allyl Chloride	2.094	41	185201	14.476 ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	107003	14.160 ppbv	92
23) Vinyl Acetate	2.457	43	413378	16.426 ppbv	99
24) 1,1-Dichloroethane	2.405	63	221175	14.239 ppbv	100
25) Ethyl Acetate	2.829	43	647150	14.084 ppbv	99
26) Hexane	2.819	57	279549	13.869 ppbv	99
27) Carbon Disulfide	2.146	76	260884	15.119 ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	156895	16.477 ppbv	97
29) Chloroform	2.842	83	438155	14.067 ppbv	100
30) Cyclohexane	3.849	84	244116	14.280 ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	293947	14.192 ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	447592	13.796 ppbv	100
34) 2-Butanone	2.551	43	432873	14.297 ppbv	100
35) Carbon Tetrachloride	3.755	117	468957	14.764 ppbv	98
36) Benzene	3.651	78	577153	14.247 ppbv	99
37) 1,2-Dichloroethane	3.211	62	354637	14.533 ppbv	100
38) Trichloroethene	4.541	130	262041	13.416 ppbv	97
39) 1,2-Dichloropropane	4.305	63	211594	14.150 ppbv	99
40) 1,4-Dioxane	4.567	88	98196	13.926 ppbv #	99
41) Tetrahydrofuran	3.046	42	232393	15.278 ppbv	99
42) Bromodichloromethane	4.480	83	486831	15.303 ppbv	99
43) Methyl Methacrylate	4.868	69	231227	16.059 ppbv	98
44) 2,2,4-Trimethylpentane	4.629	57	963867	14.598 ppbv	98
45) t-1,3-Dichloropropene	6.406	75	266194	16.478 ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042753.D
 Acq On : 23 Jul 2025 12:26
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

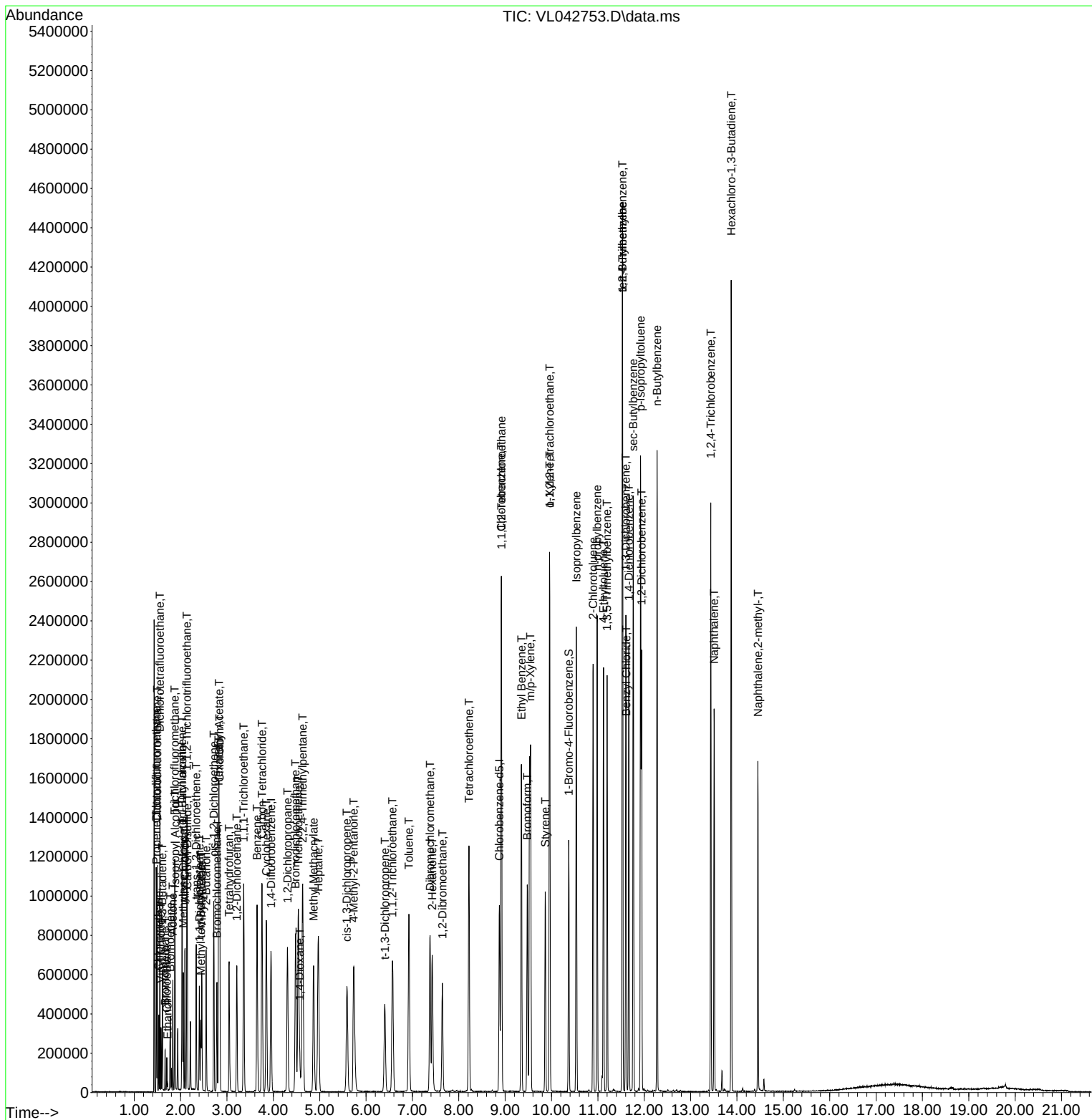
Instrument :
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 ClientSampleId :
 VSTDIC015

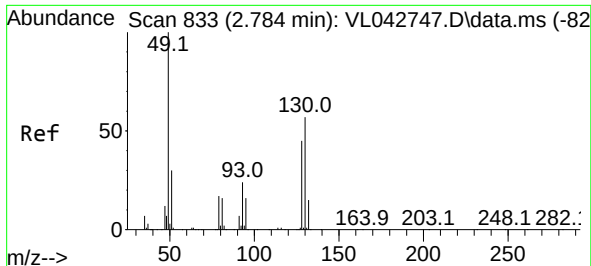
Quant Time: Jul 24 05:00:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	329850	16.115	ppbv	99
47) 1,1,2-Trichloroethane	6.567	97	228492	14.335	ppbv	96
48) Dibromochloromethane	7.380	129	397179	15.695	ppbv	99
49) Bromoform	9.477	173	352050	15.955	ppbv	97
50) 4-Methyl-2-Pentanone	5.732	43	594973	15.427	ppbv	100
51) 2-Hexanone	7.428	43	485325	16.467	ppbv #	100
52) Tetrachloroethene	8.221	164	217184	12.899	ppbv	95
53) Toluene	6.923	91	670142	15.405	ppbv	99
54) 1,2-Dibromoethane	7.645	107	338867	15.019	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.920	131	293384	14.648	ppbv	99
57) Chlorobenzene	8.917	112	522894	14.025	ppbv	98
58) Ethyl Benzene	9.351	91	940159	15.454	ppbv	99
59) m/p-Xylene	9.545	91	766284	15.756	ppbv #	34
60) o-Xylene	9.959	91	730161	15.030	ppbv	100
61) Styrene	9.866	104	343429	16.805	ppbv	100
62) Isopropylbenzene	10.536	105	1078393	15.049	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	419734	13.261	ppbv	98
64) n-propylbenzene	10.985	120	286724	15.348	ppbv	97
65) tert-Butylbenzene	11.529	119	954459	14.995	ppbv	98
66) Benzyl Chloride	11.610	91	94218	18.031	ppbv	98
67) sec-Butylbenzene	11.762	105	1327393	14.662	ppbv	99
69) p-Isopropyltoluene	11.921	119	1149418	15.571	ppbv	99
70) n-Butylbenzene	12.277	91	1152207	16.159	ppbv	100
71) 2-Chlorotoluene	10.898	91	838335	15.257	ppbv	99
72) 4-Ethyltoluene	11.121	105	918453	15.830	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	763212	15.977	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	827222	15.873	ppbv	97
75) 1,3-Dichlorobenzene	11.604	146	539284	14.761	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	542998	15.188	ppbv	100
77) 1,2-Dichlorobenzene	11.943	146	516714	14.390	ppbv	98
78) Hexachloro-1,3-Butadiene	13.876	225	432138	13.296	ppbv	99
79) Naphthalene	13.507	128	876734	15.265	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	456529	15.438	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	490575	15.200	ppbv	99

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

Quant Time: Jul 24 05:00:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

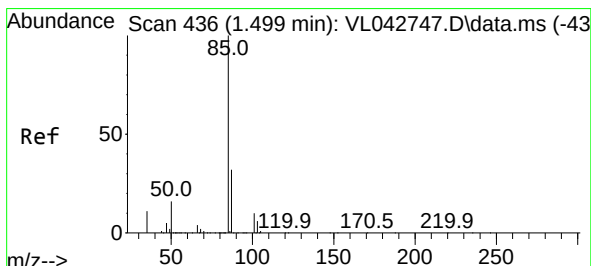
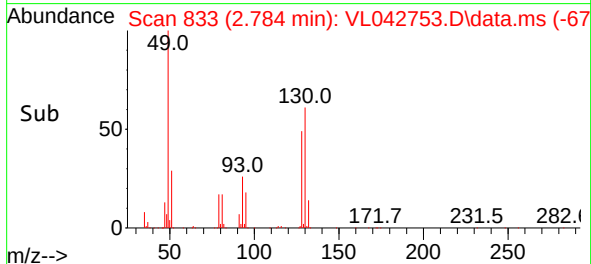
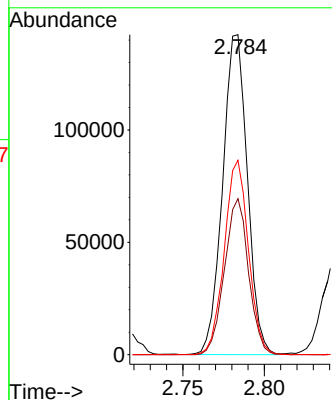
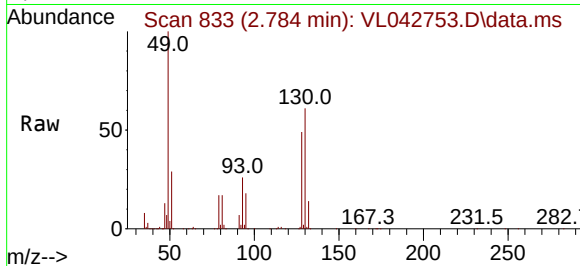




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 833
 Delta R.T. -0.000 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

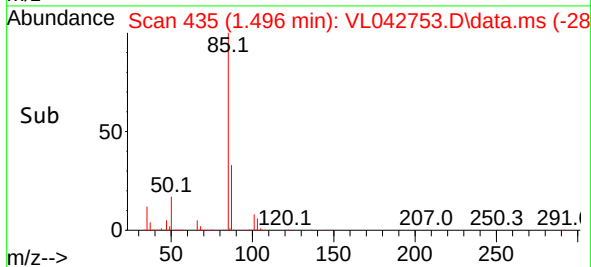
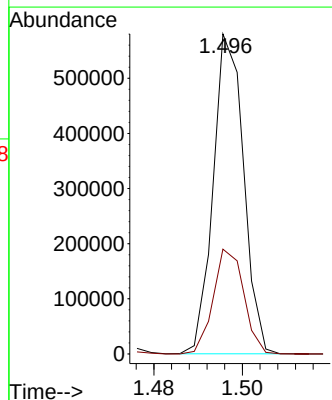
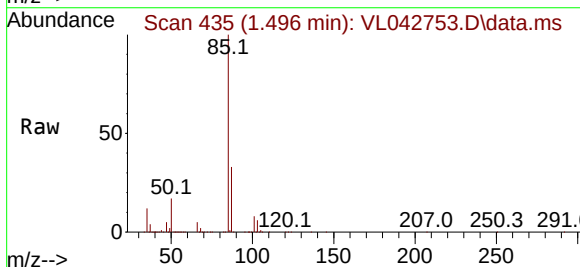
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

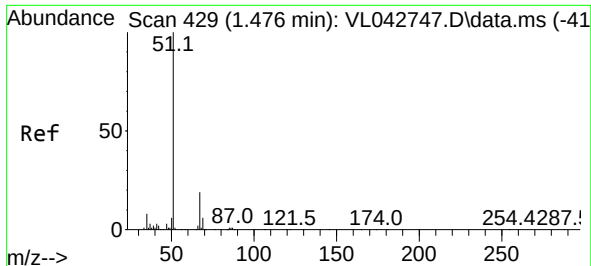
Tgt Ion: 49 Resp: 150331
 Ion Ratio Lower Upper
 49 100
 128 47.4 23.6 71.0
 130 59.2 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 13.938 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion: 85 Resp: 277045
 Ion Ratio Lower Upper
 85 100
 87 32.7 25.4 38.2

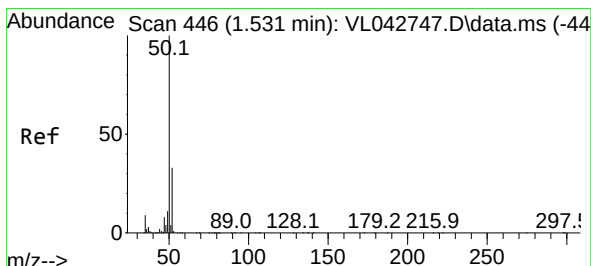
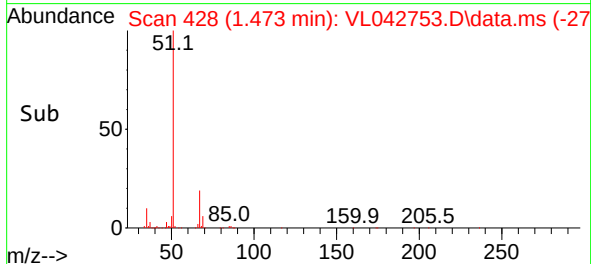
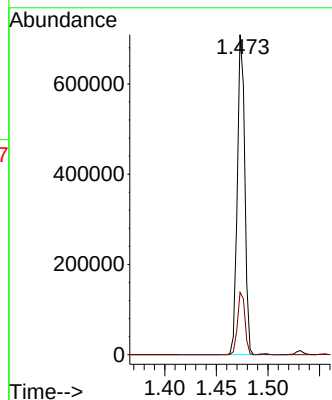
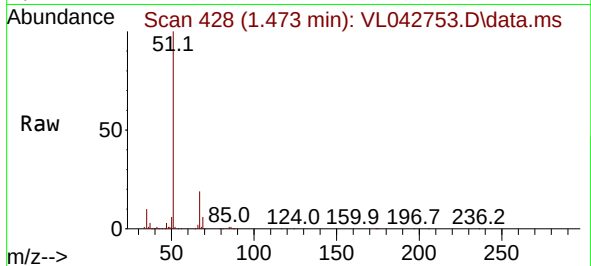




#3
Chlorodifluoromethane
Concen: 13.651 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

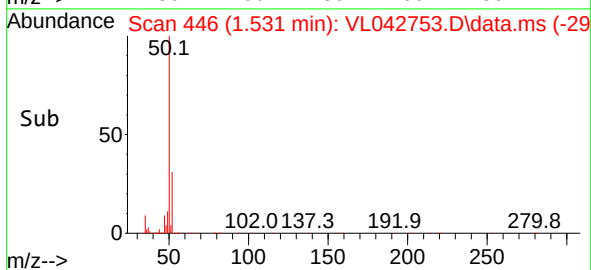
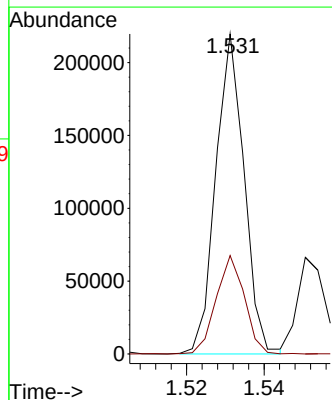
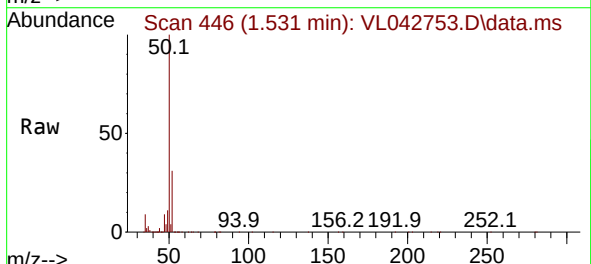
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

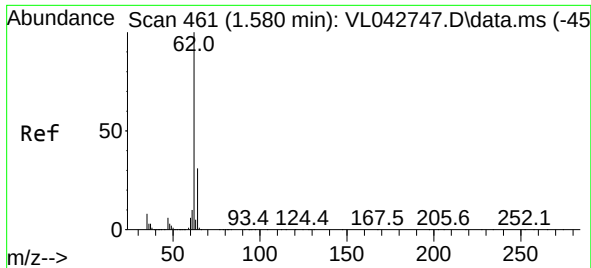
Tgt Ion: 51 Resp: 353451
Ion Ratio Lower Upper
51 100
67 19.6 15.0 22.6



#4
Chloromethane
Concen: 13.889 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 50 Resp: 111684
Ion Ratio Lower Upper
50 100
52 30.8 26.6 40.0

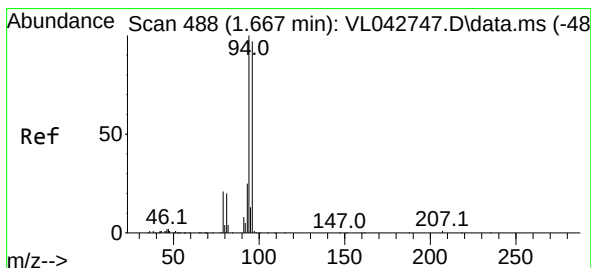
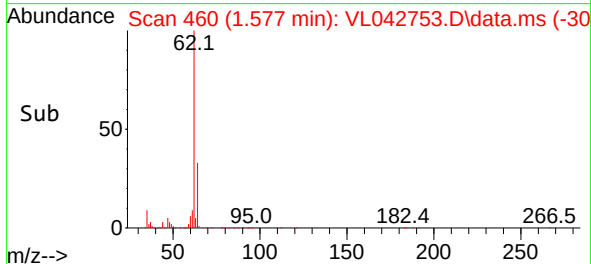
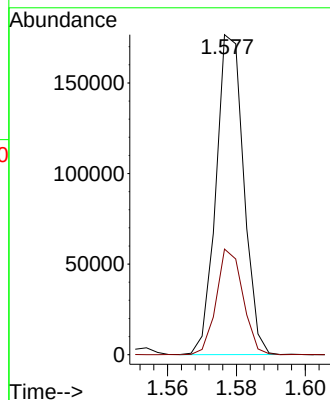
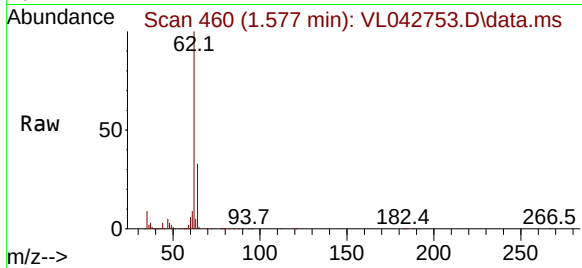




#5
 Vinyl Chloride
 Concen: 12.410 ppbv
 RT: 1.577 min Scan# 461
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

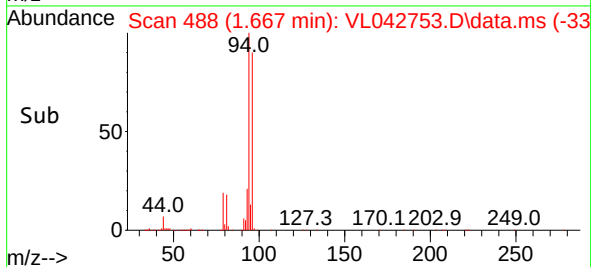
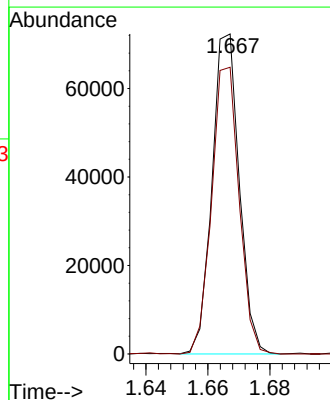
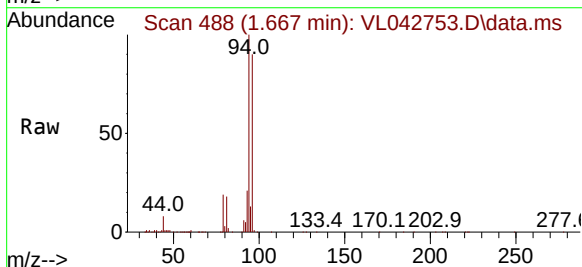
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

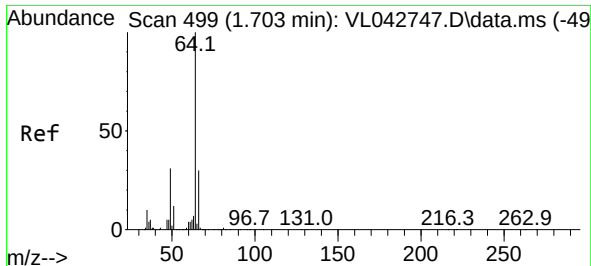
Tgt Ion: 62 Resp: 98596
 Ion Ratio Lower Upper
 62 100
 64 33.0 24.5 36.7



#6
 Bromomethane
 Concen: 14.372 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion: 94 Resp: 44144
 Ion Ratio Lower Upper
 94 100
 96 89.6 77.6 116.4

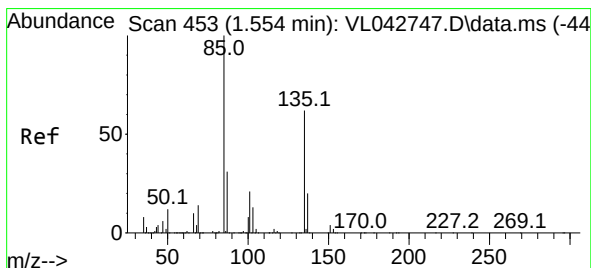
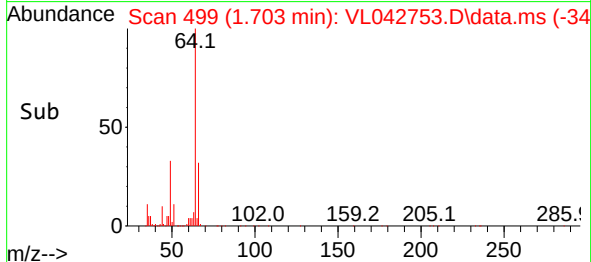
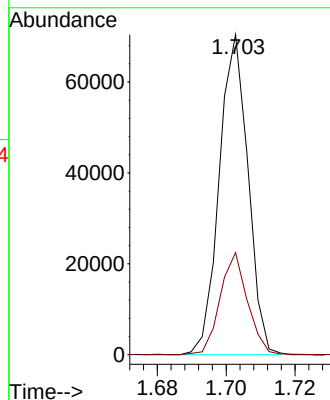
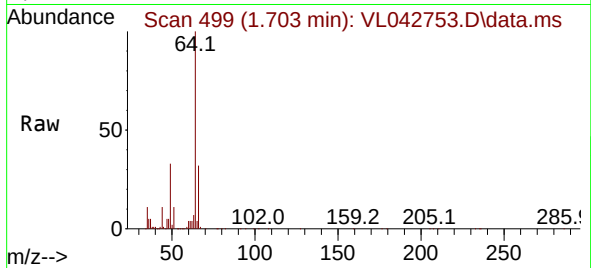




#7
Chloroethane
Concen: 13.327 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

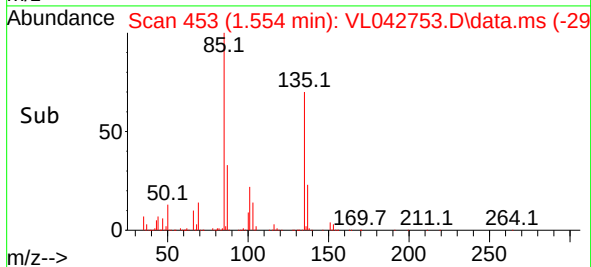
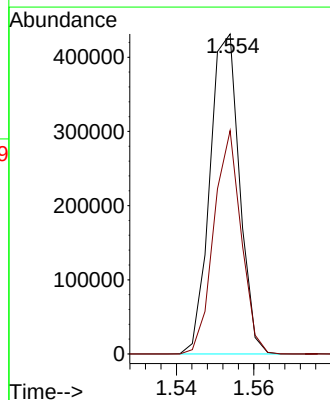
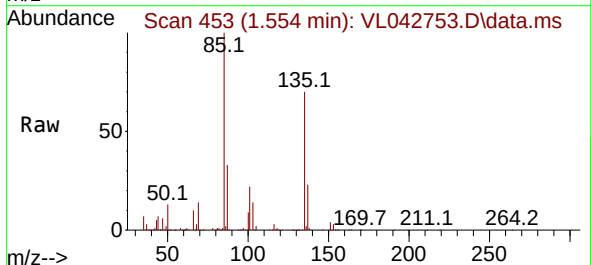
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

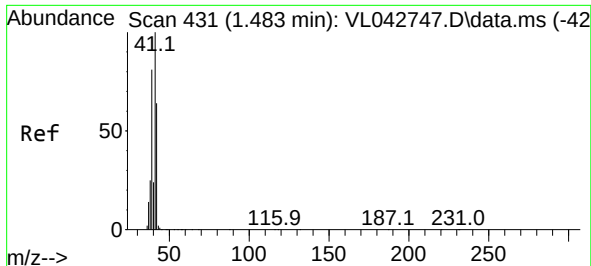
Tgt Ion: 64 Resp: 40909
Ion Ratio Lower Upper
64 100
66 31.9 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 14.028 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 85 Resp: 229298
Ion Ratio Lower Upper
85 100
135 64.4 50.6 76.0





#9

Propene

Concen: 13.716 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

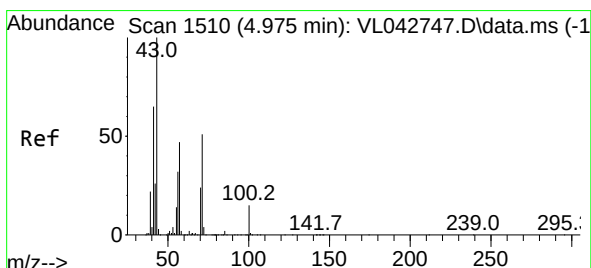
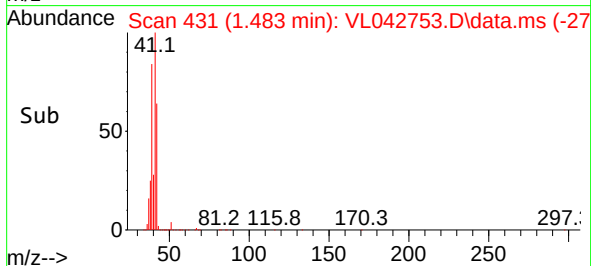
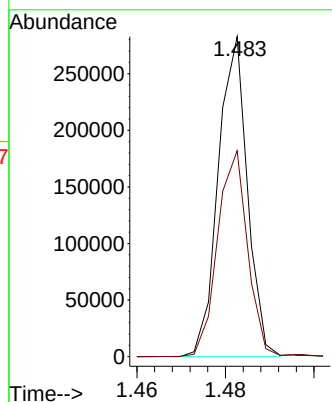
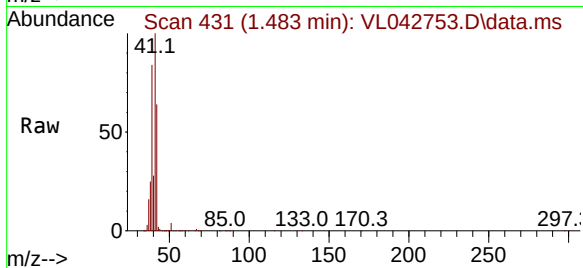
VSTDIC015

Tgt Ion: 41 Resp: 129069

Ion Ratio Lower Upper

41 100

42 67.0 53.2 79.8



#10

Heptane

Concen: 14.563 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. -0.003 min

Lab File: VL042753.D

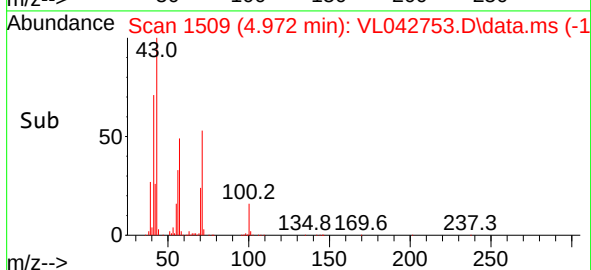
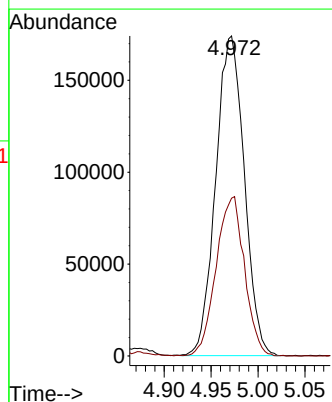
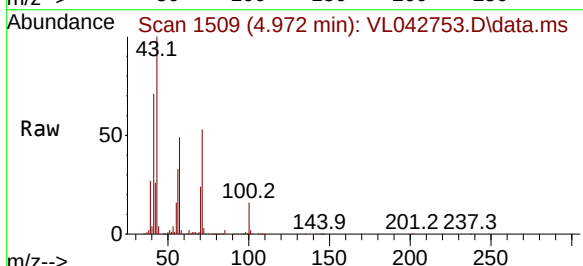
Acq: 23 Jul 2025 12:26

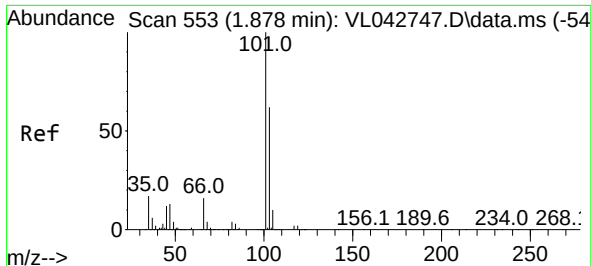
Tgt Ion: 43 Resp: 368612

Ion Ratio Lower Upper

43 100

57 49.4 39.9 59.9

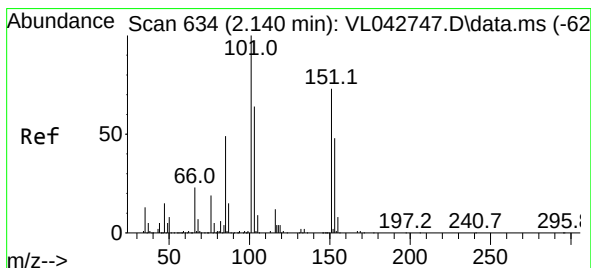
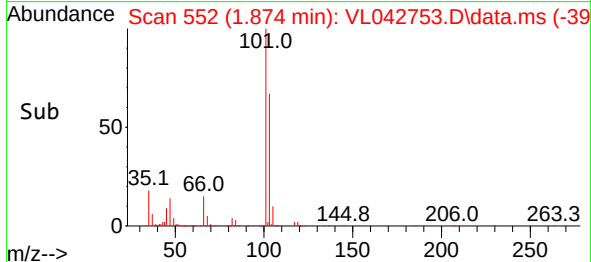
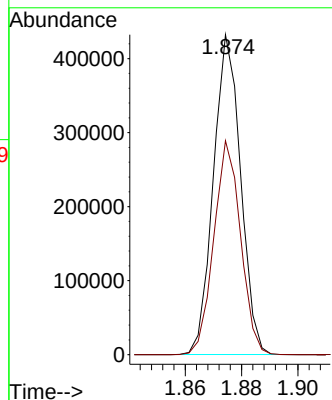
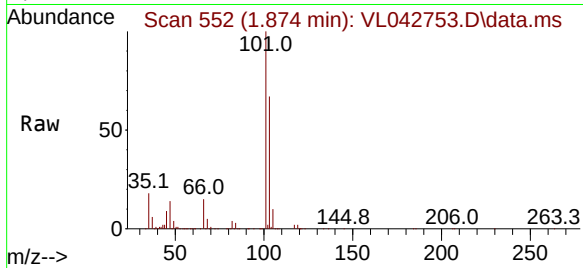




#11
Trichlorofluoromethane
Concen: 14.143 ppbv
RT: 1.874 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

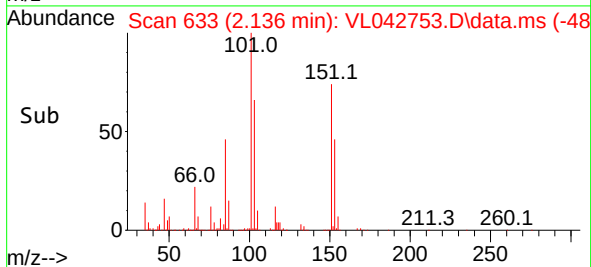
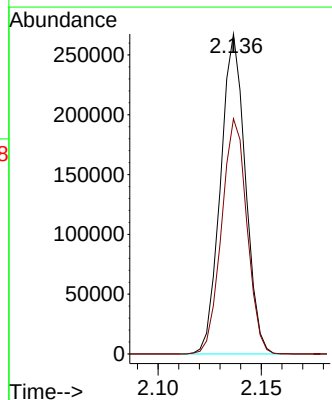
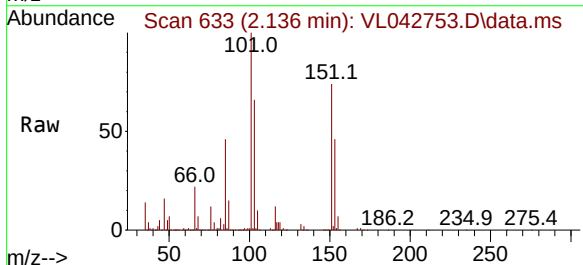
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

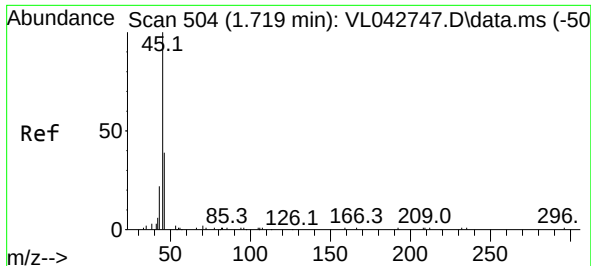
Tgt Ion:101 Resp: 289764
Ion Ratio Lower Upper
101 100
103 66.8 49.6 74.4



#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.358 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:101 Resp: 223552
Ion Ratio Lower Upper
101 100
151 74.9 60.5 90.7

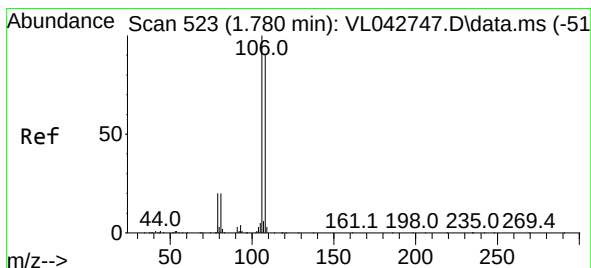
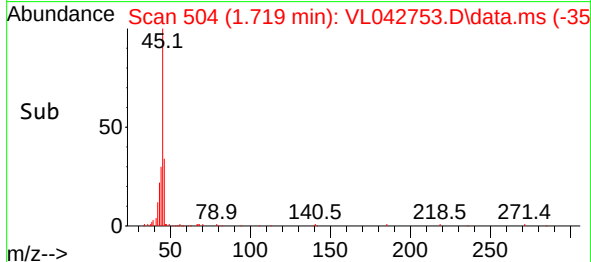
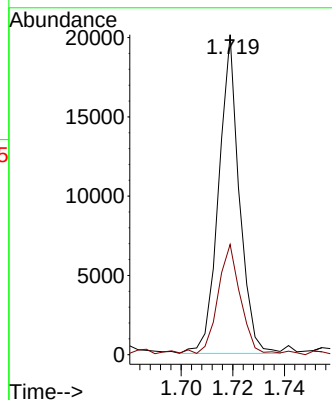
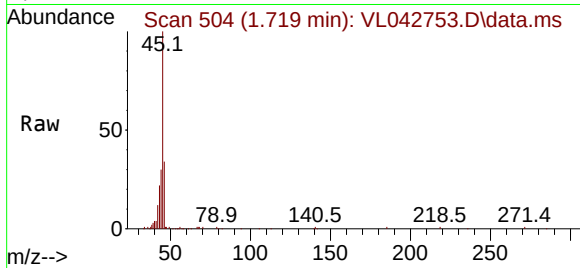




#13
Ethanol
Concen: 15.142 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

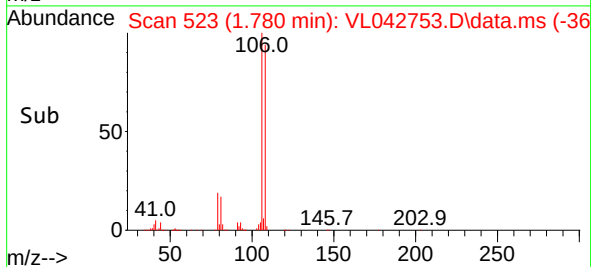
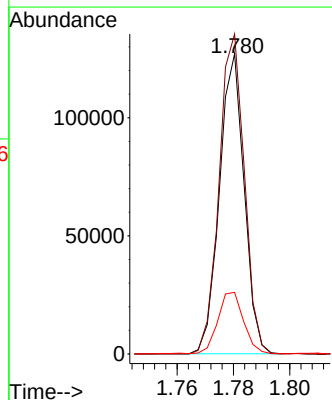
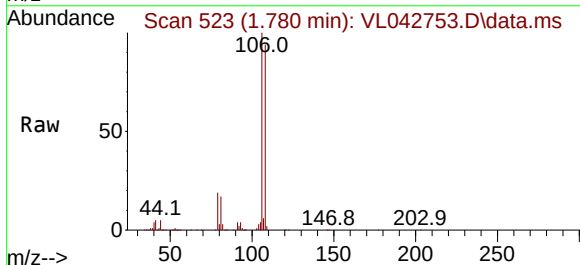
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

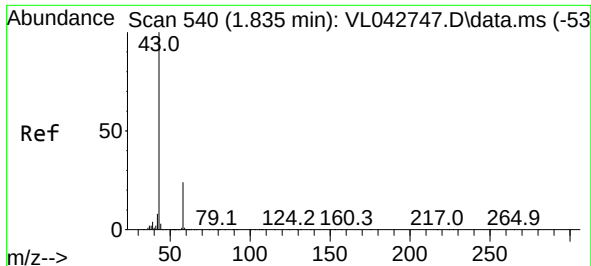
Tgt Ion: 45 Resp: 11145
Ion Ratio Lower Upper
45 100
46 35.4 17.8 71.4



#14
Bromoethene
Concen: 14.047 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 108 Resp: 77435
Ion Ratio Lower Upper
108 100
106 108.5 84.7 127.1
79 22.3 17.4 26.2

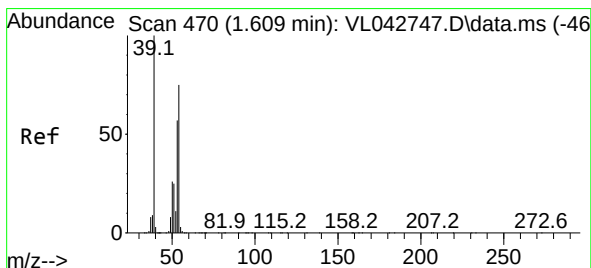
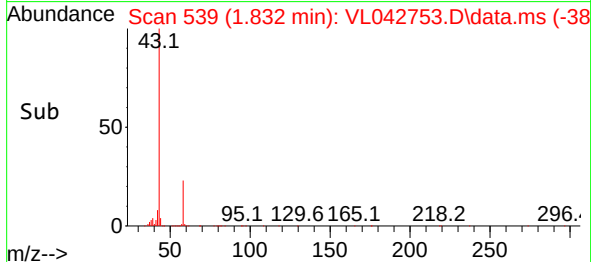
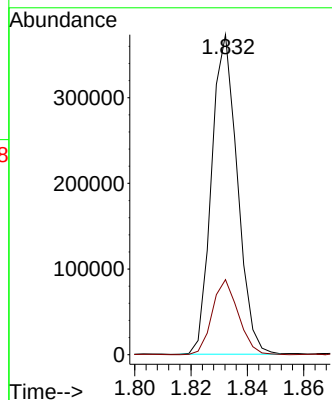
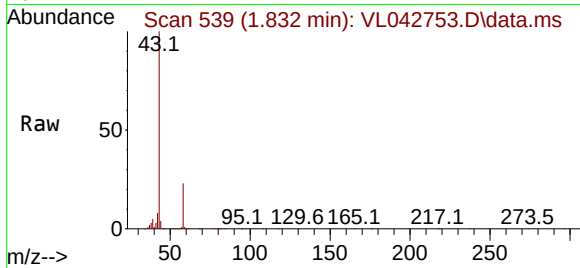




#15
Acetone
Concen: 11.449 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

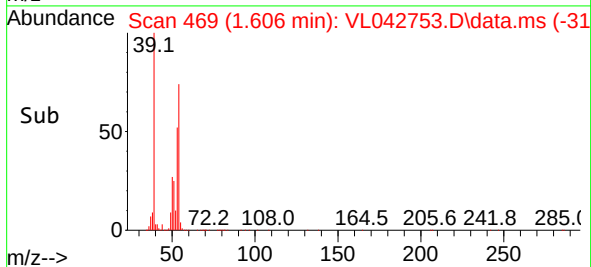
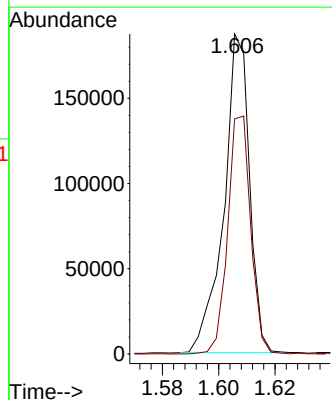
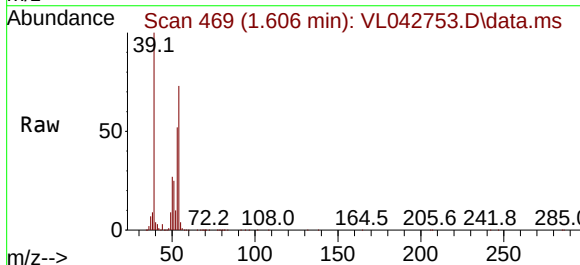
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

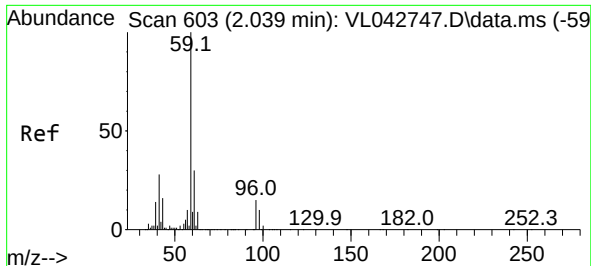
Tgt Ion: 43 Resp: 237665
Ion Ratio Lower Upper
43 100
58 24.0 19.8 29.8



#16
1,3-Butadiene
Concen: 13.355 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 39 Resp: 118252
Ion Ratio Lower Upper
39 100
54 67.5 54.5 81.7





#17

tert-Butyl alcohol

Concen: 13.919 ppbv

RT: 2.036 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_1

ClientSampleId :

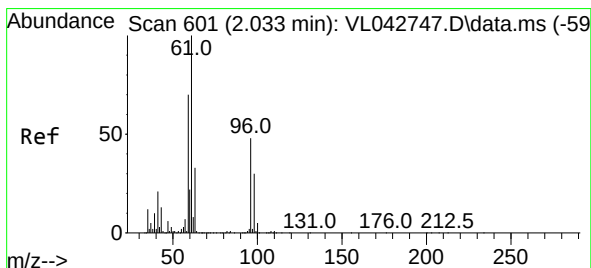
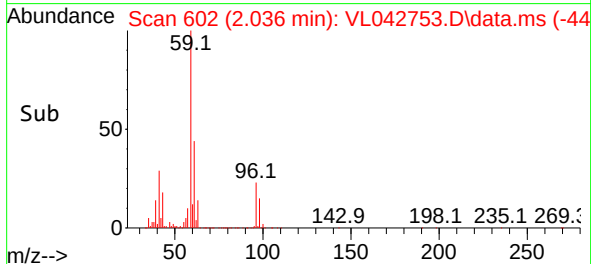
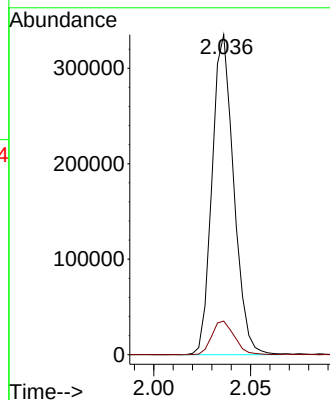
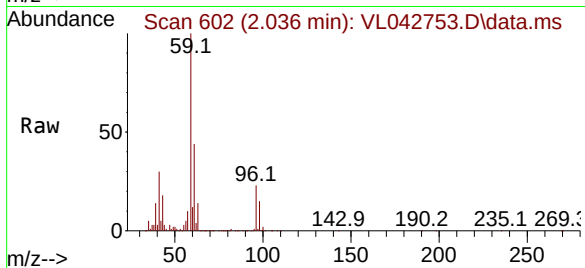
VSTDIC015

Tgt Ion: 59 Resp: 260587

Ion Ratio Lower Upper

59 100

57 11.1 8.3 12.5



#18

1,1-Dichloroethene

Concen: 13.382 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

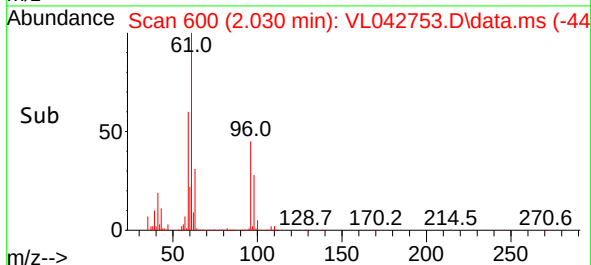
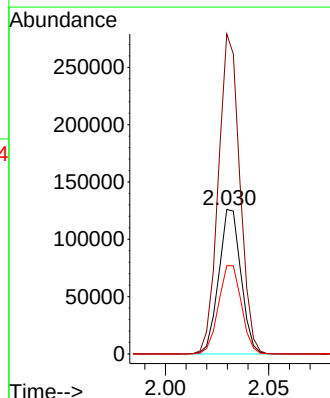
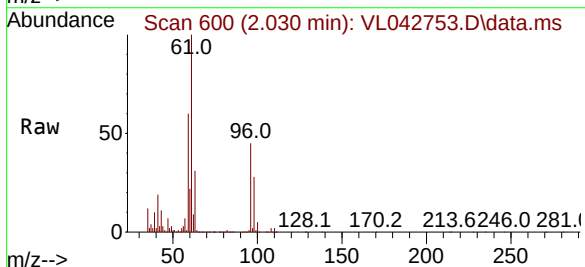
Tgt Ion: 96 Resp: 94140

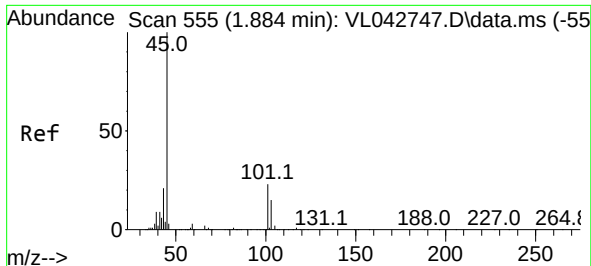
Ion Ratio Lower Upper

96 100

61 221.6 165.8 248.6

98 61.2 49.9 74.9

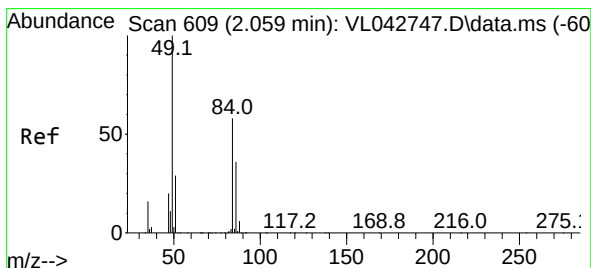
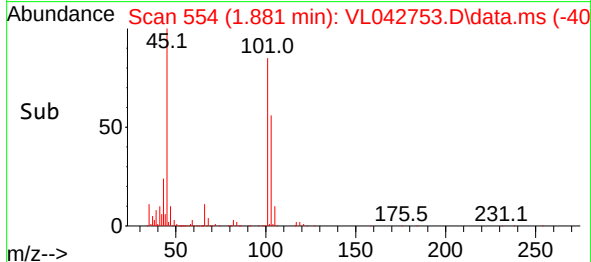
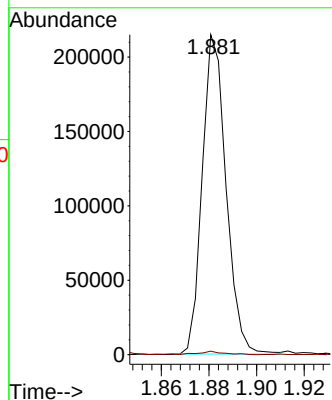
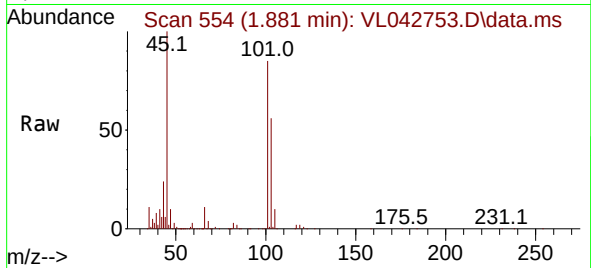




#19
Isopropyl Alcohol
Concen: 13.549 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

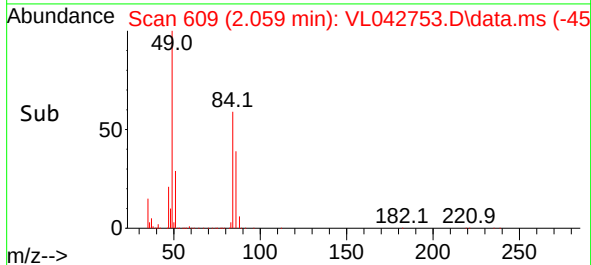
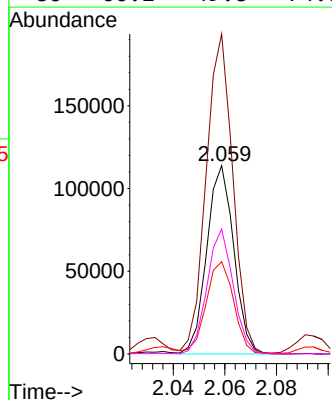
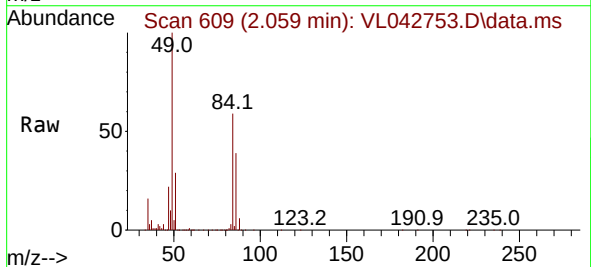
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

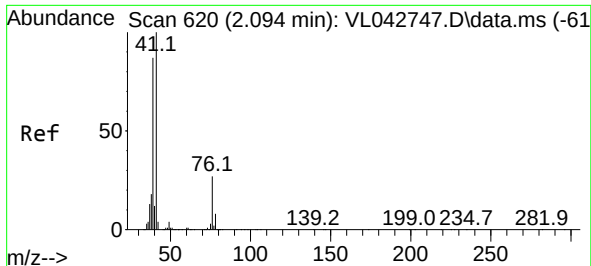
Tgt Ion: 45 Resp: 149463
Ion Ratio Lower Upper
45 100
58 38.1 30.0 45.0



#20
Methylene Chloride
Concen: 12.651 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 84 Resp: 82755
Ion Ratio Lower Upper
84 100
49 169.2 138.6 208.0
51 48.6 40.6 61.0
86 66.2 49.8 74.8

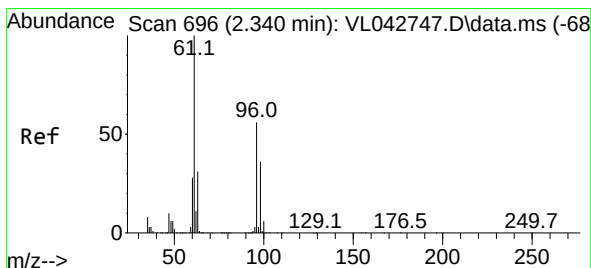
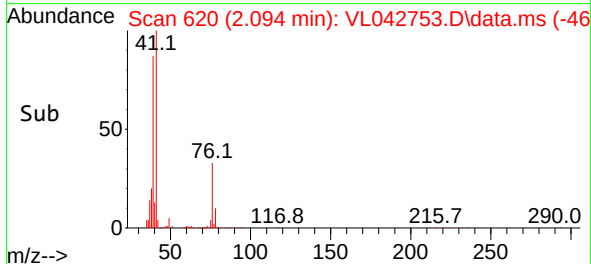
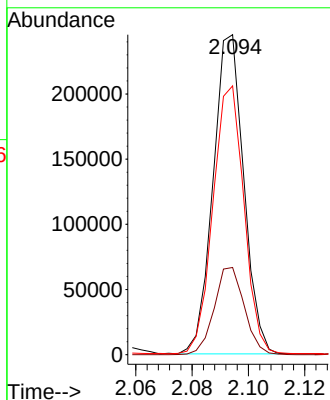
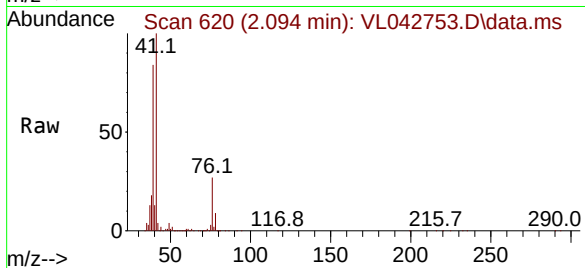




#21
 Allyl Chloride
 Concen: 14.476 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

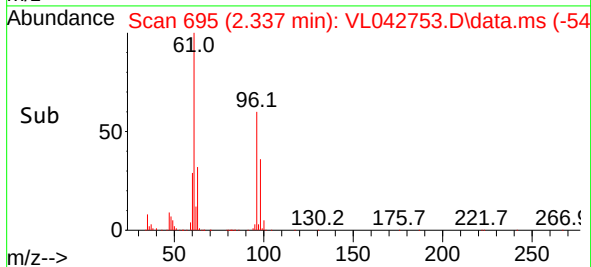
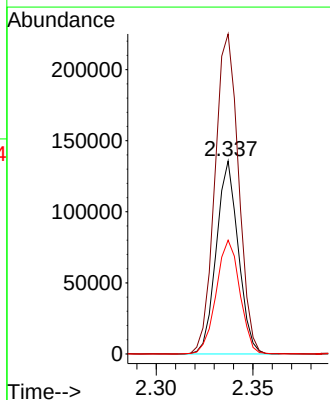
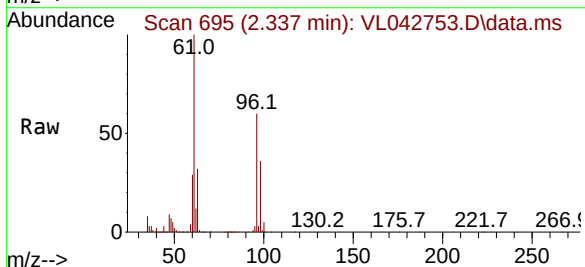
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

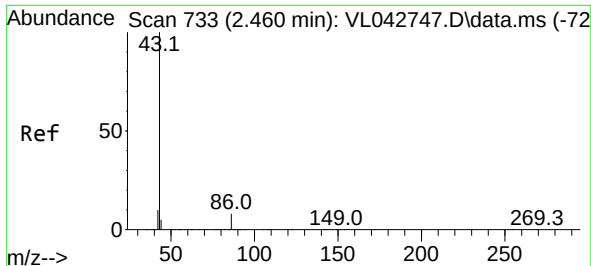
Tgt Ion: 41 Resp: 185201
 Ion Ratio Lower Upper
 41 100
 76 26.9 21.1 31.7
 39 85.2 68.3 102.5



#22
 trans-1,2-Dichloroethene
 Concen: 14.160 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion: 96 Resp: 107003
 Ion Ratio Lower Upper
 96 100
 61 165.9 142.3 213.5
 98 59.0 50.6 76.0

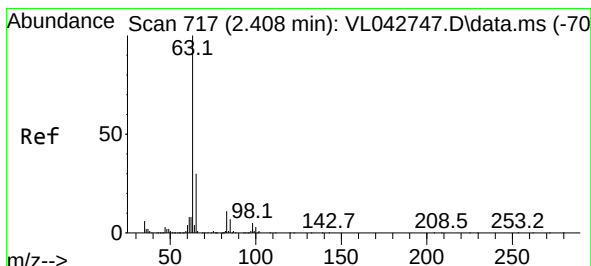
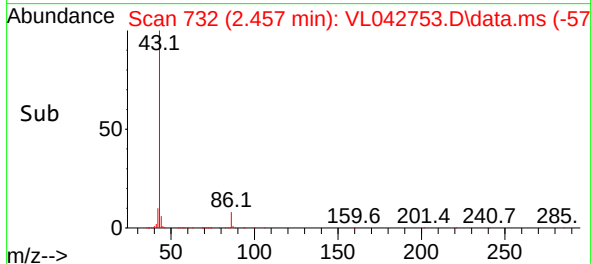
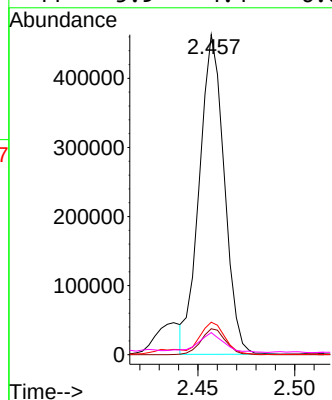
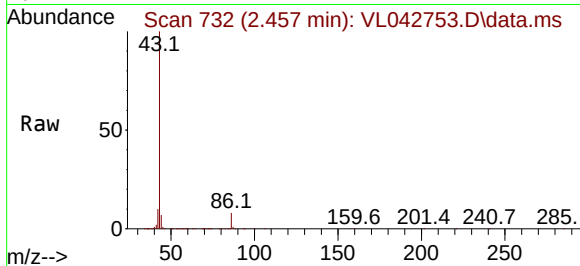




#23
 Vinyl Acetate
 Concen: 16.426 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

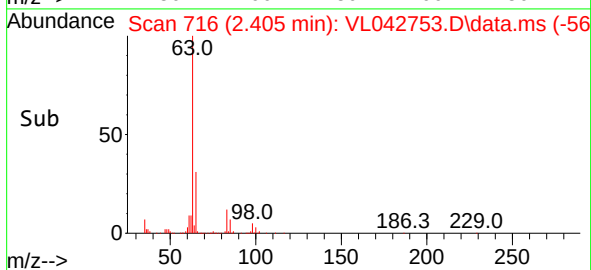
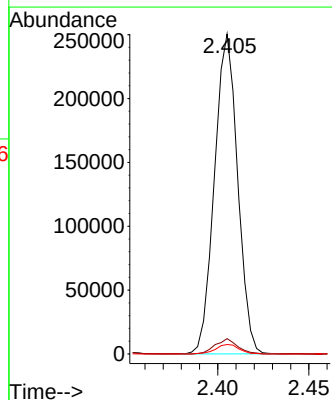
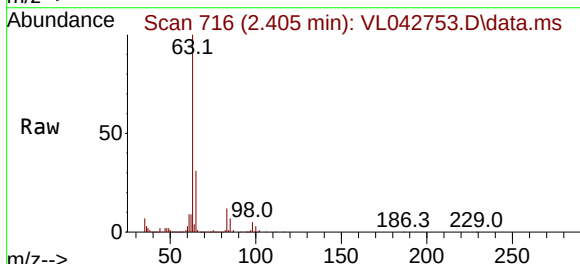
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

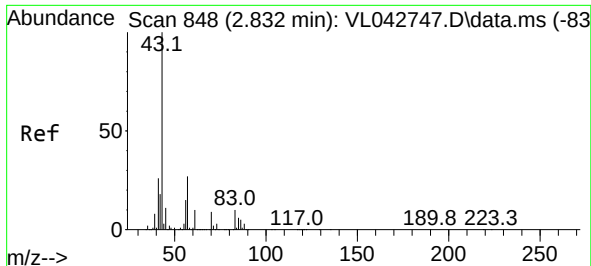
Tgt Ion:	43	Resp:	413378
Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.1	9.1
42	10.1	7.8	11.8
44	5.9	4.4	6.6



#24
 1,1-Dichloroethane
 Concen: 14.239 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion:	63	Resp:	221175
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.5	7.4
100	2.9	1.6	4.8



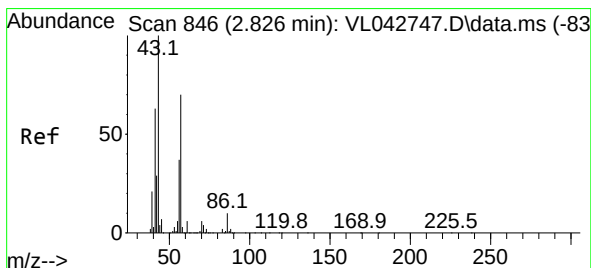
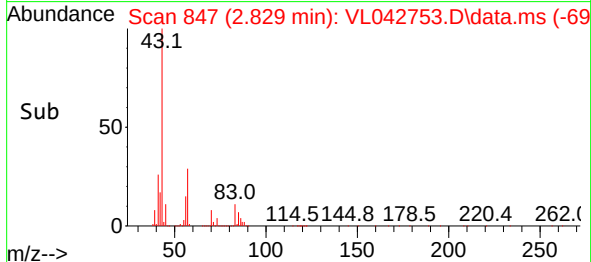
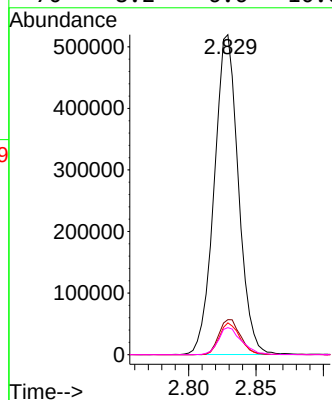
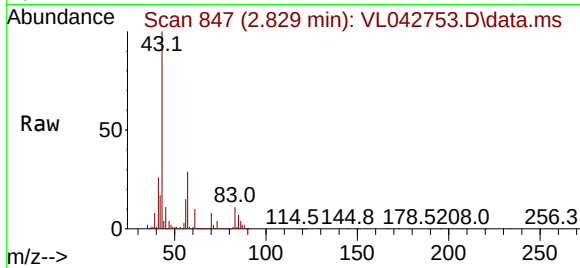


#25
Ethyl Acetate
Concen: 14.084 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 647150

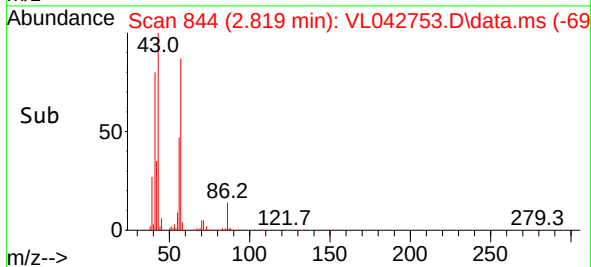
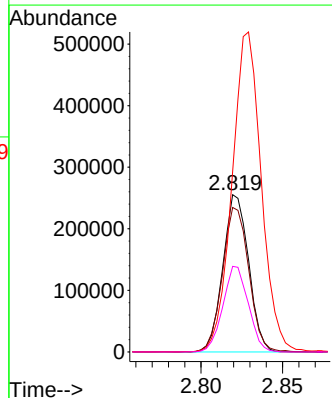
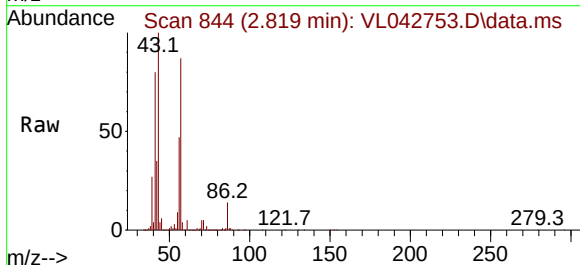
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.6
61	8.6	6.7	10.1
70	8.2	6.6	10.0

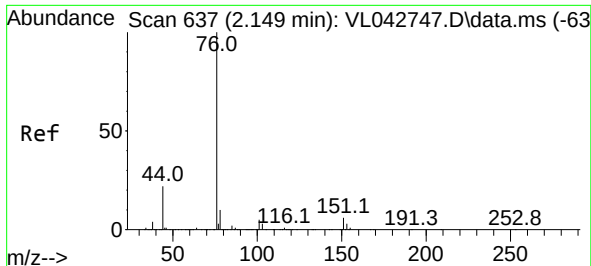


#26
Hexane
Concen: 13.869 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 57 Resp: 279549

Ion	Ratio	Lower	Upper
57	100		
41	94.6	75.4	113.2
43	232.7	185.0	277.6
56	53.9	42.9	64.3

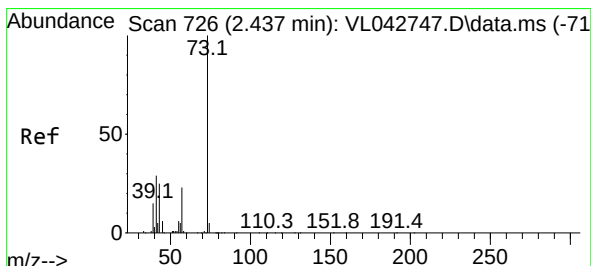
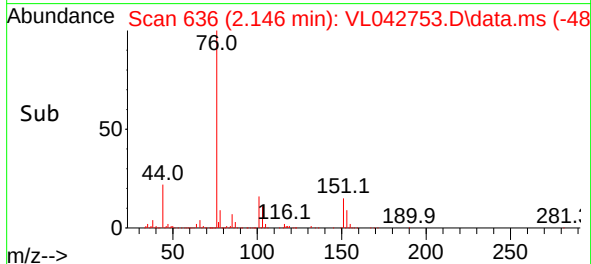
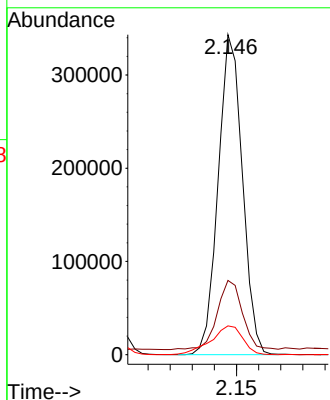
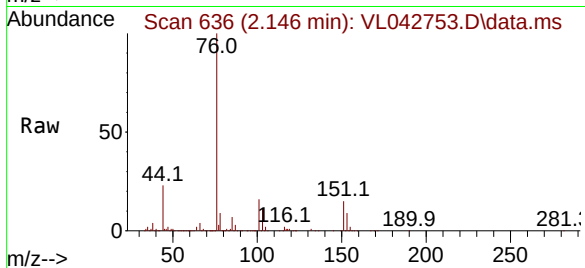




#27
Carbon Disulfide
Concen: 15.119 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

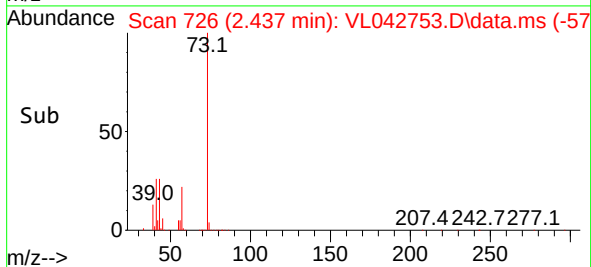
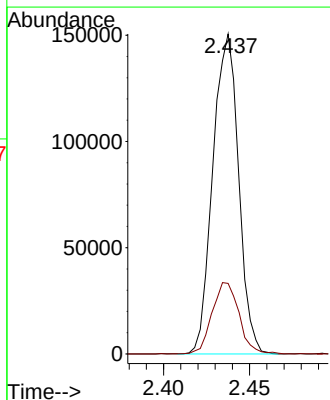
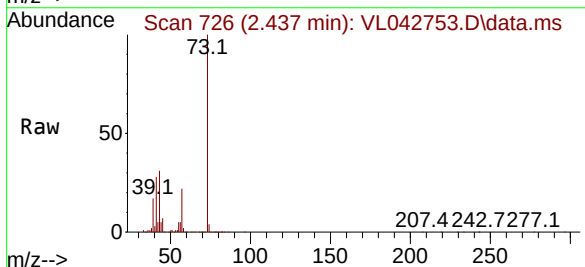
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

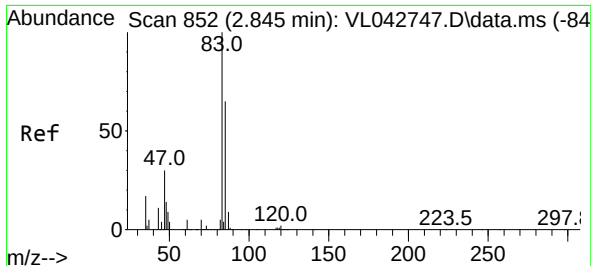
Tgt Ion: 76 Resp: 260884
Ion Ratio Lower Upper
76 100
44 23.1 19.3 28.9
78 11.9 9.9 14.9



#28
Methyl tert-Butyl Ether
Concen: 16.477 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 73 Resp: 156895
Ion Ratio Lower Upper
73 100
57 23.5 19.8 29.8





#29

Chloroform

Concen: 14.067 ppbv

RT: 2.842 min Scan# 851

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

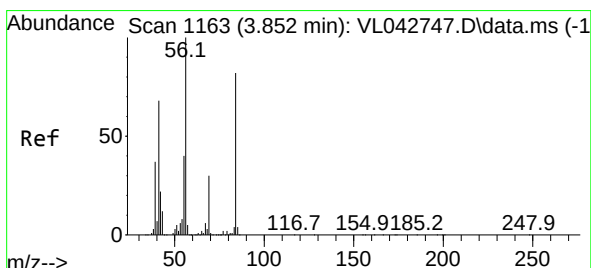
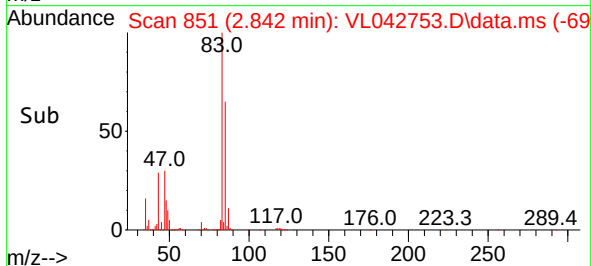
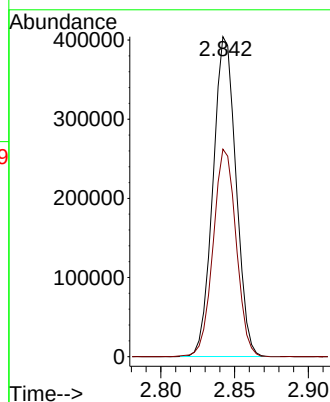
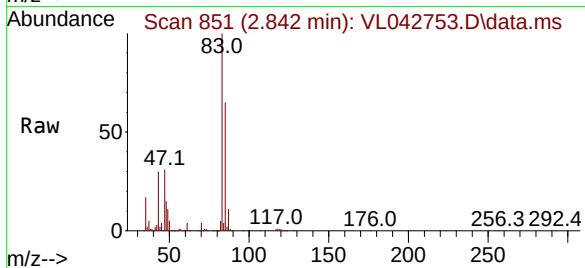
VSTDIC015

Tgt Ion: 83 Resp: 438155

Ion Ratio Lower Upper

83 100

85 64.9 52.2 78.2



#30

Cyclohexane

Concen: 14.280 ppbv

RT: 3.849 min Scan# 1162

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

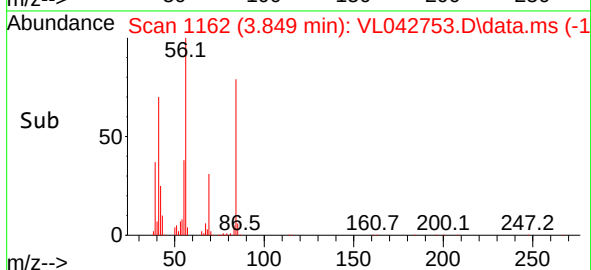
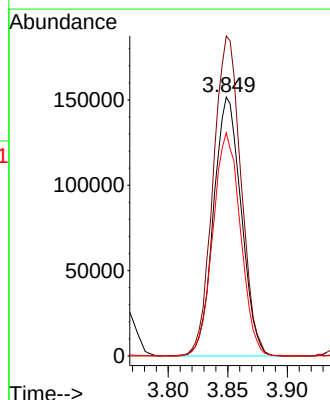
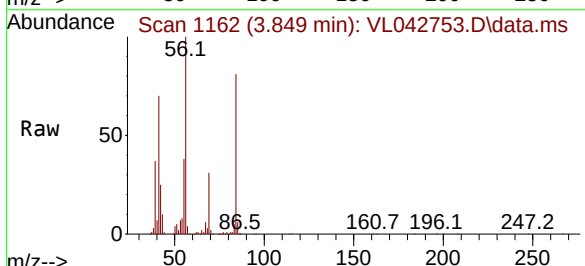
Tgt Ion: 84 Resp: 244116

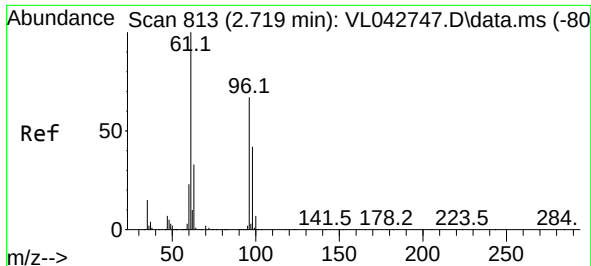
Ion Ratio Lower Upper

84 100

56 124.4 97.5 146.3

41 85.9 67.2 100.8

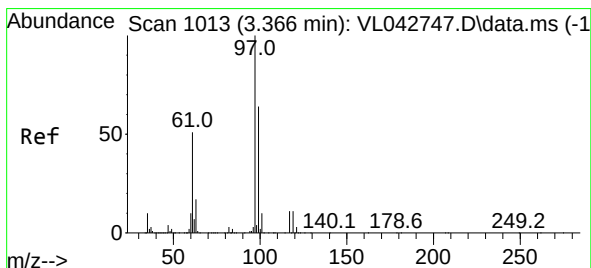
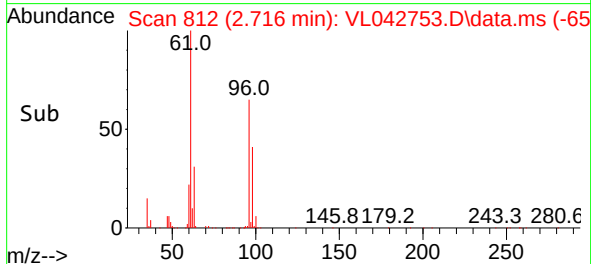
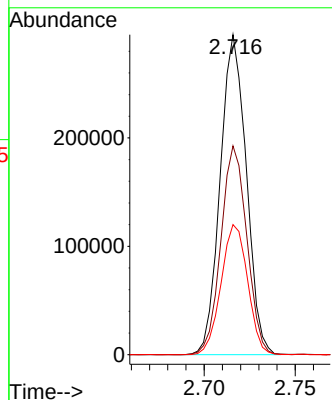
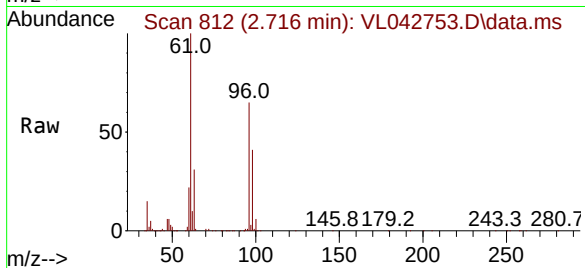




#31
cis-1,2-Dichloroethene
Concen: 14.192 ppbv
RT: 2.716 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

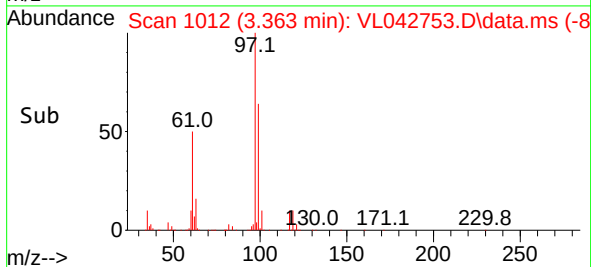
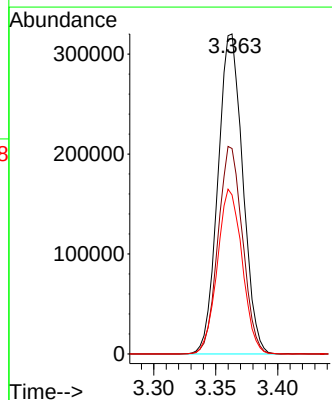
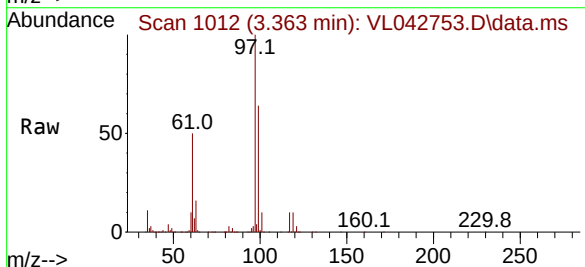
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

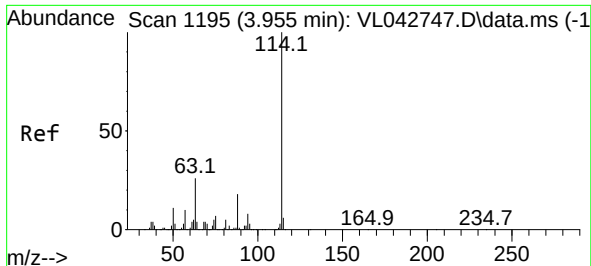
Tgt Ion: 61 Resp: 293947
Ion Ratio Lower Upper
61 100
96 65.3 53.5 80.3
98 40.7 33.6 50.4



#32
1,1,1-Trichloroethane
Concen: 13.796 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 97 Resp: 447592
Ion Ratio Lower Upper
97 100
99 64.0 51.0 76.6
61 51.5 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

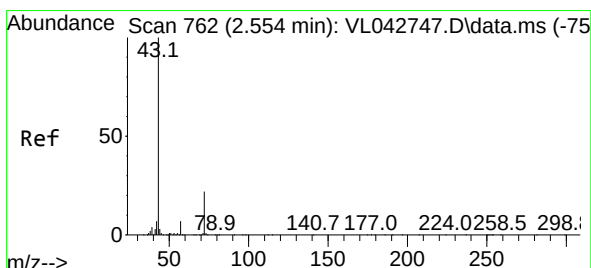
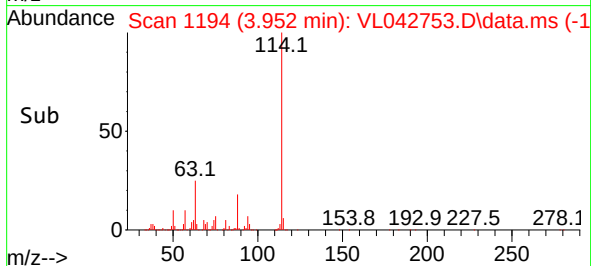
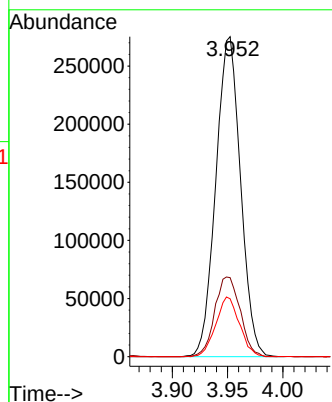
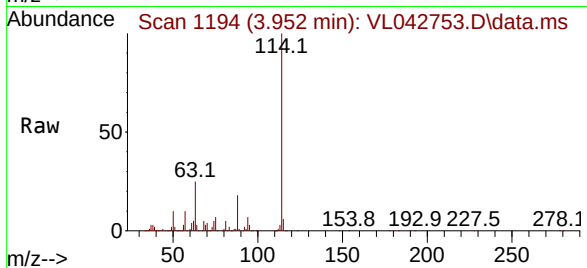
Tgt Ion:114 Resp: 427438

Ion Ratio Lower Upper

114 100

63 25.7 20.5 30.7

88 17.9 14.0 21.0



#34

2-Butanone

Concen: 14.297 ppbv

RT: 2.551 min Scan# 761

Delta R.T. -0.003 min

Lab File: VL042753.D

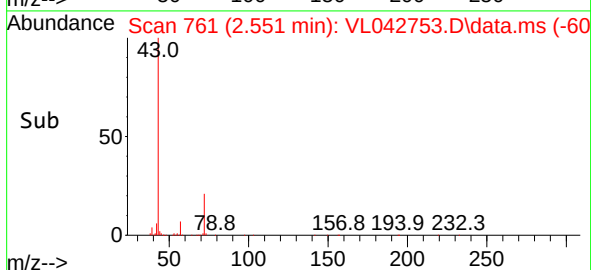
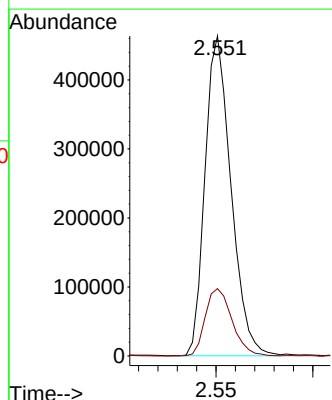
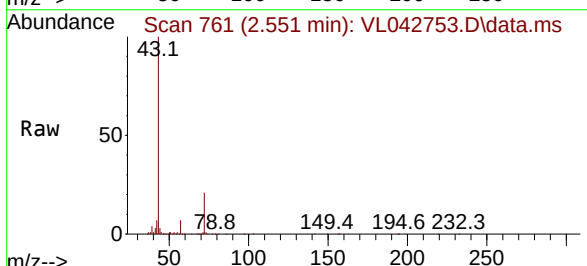
Acq: 23 Jul 2025 12:26

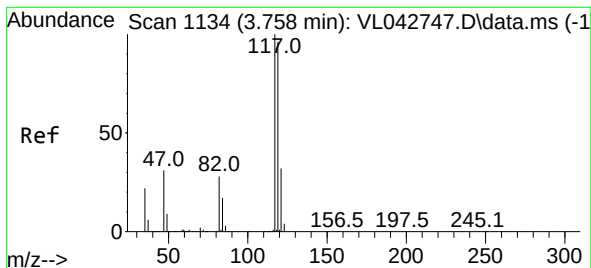
Tgt Ion: 43 Resp: 432873

Ion Ratio Lower Upper

43 100

72 21.8 17.4 26.0





#35

Carbon Tetrachloride

Concen: 14.764 ppbv

RT: 3.755 min Scan# 1133

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

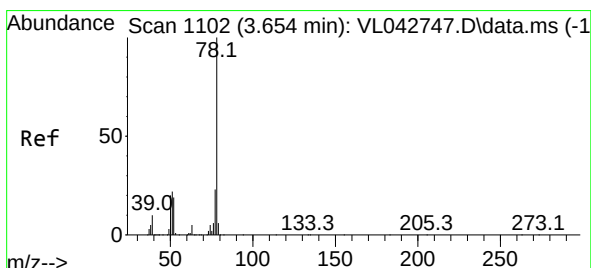
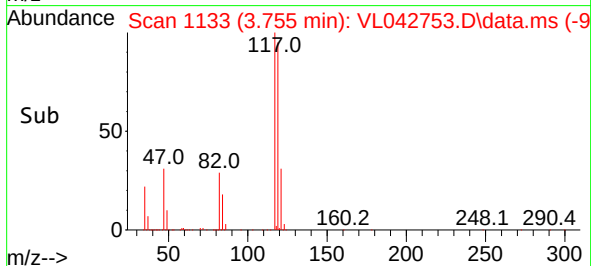
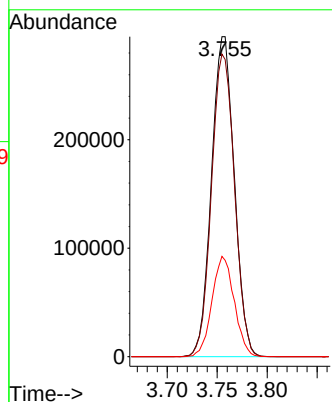
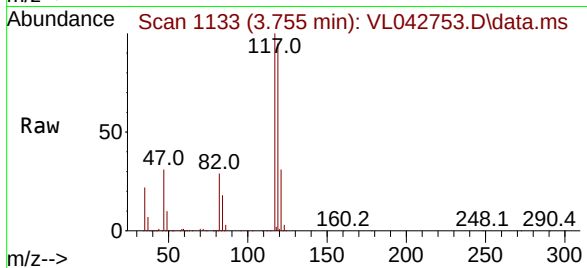
Tgt Ion:117 Resp: 468957

Ion Ratio Lower Upper

117 100

119 94.6 77.1 115.7

121 31.4 25.5 38.3



#36

Benzene

Concen: 14.247 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

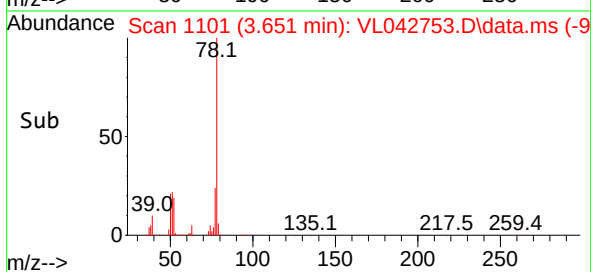
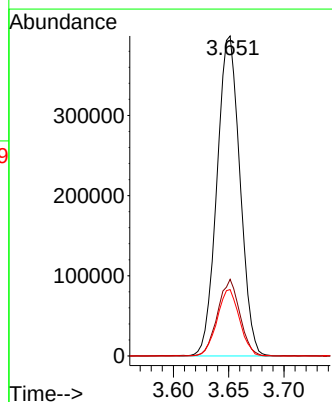
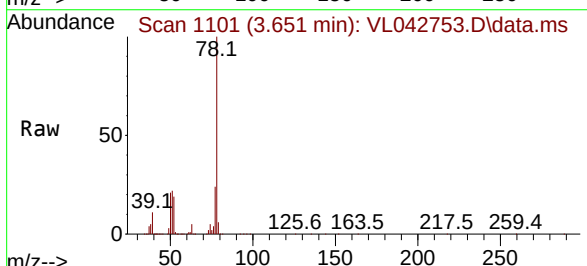
Tgt Ion: 78 Resp: 577153

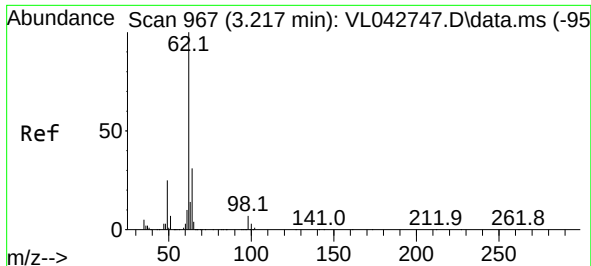
Ion Ratio Lower Upper

78 100

77 23.9 18.5 27.7

50 20.7 16.2 24.2





#37

1,2-Dichloroethane

Concen: 14.533 ppbv

RT: 3.211 min Scan# 9

Delta R.T. -0.006 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

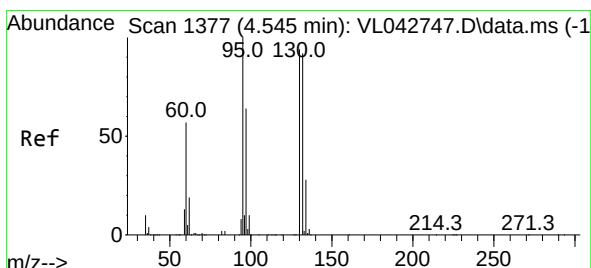
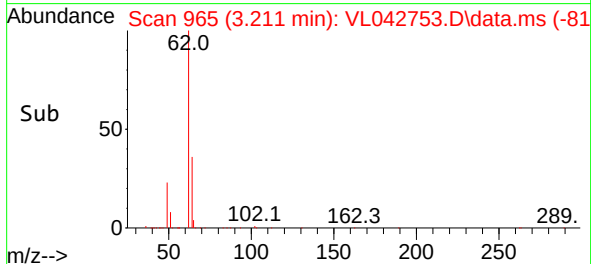
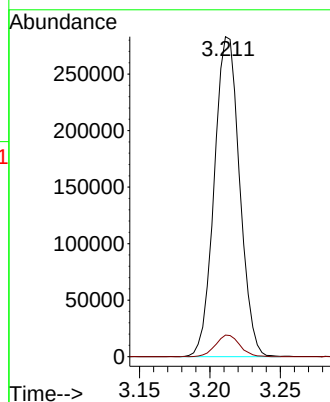
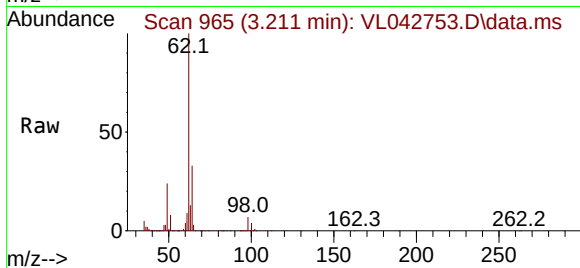
VSTDIC015

Tgt Ion: 62 Resp: 354637

Ion Ratio Lower Upper

62 100

98 6.5 5.2 7.8



#38

Trichloroethene

Concen: 13.416 ppbv

RT: 4.541 min Scan# 1376

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Tgt Ion:130 Resp: 262041

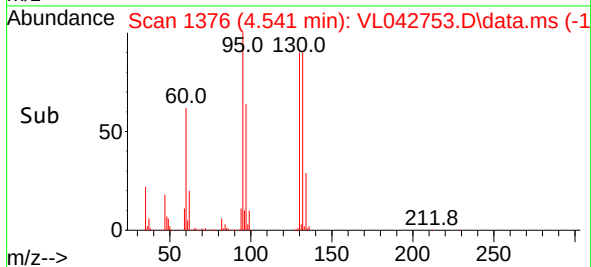
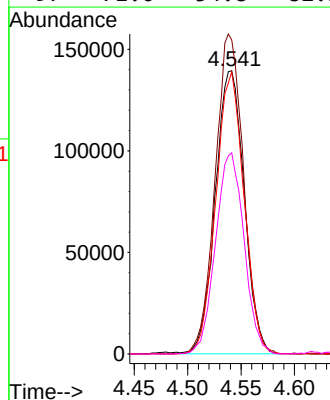
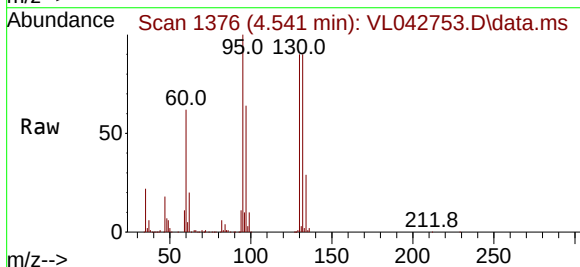
Ion Ratio Lower Upper

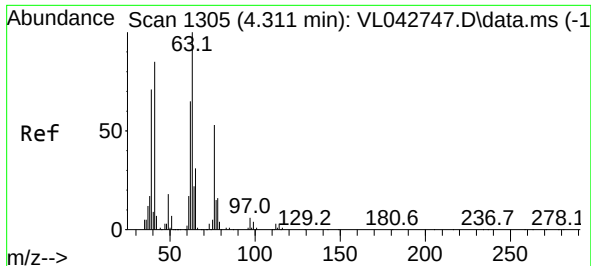
130 100

95 110.8 85.4 128.2

132 99.5 78.2 117.2

97 71.0 54.8 82.2





#39

1,2-Dichloropropane

Concen: 14.150 ppbv

RT: 4.305 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

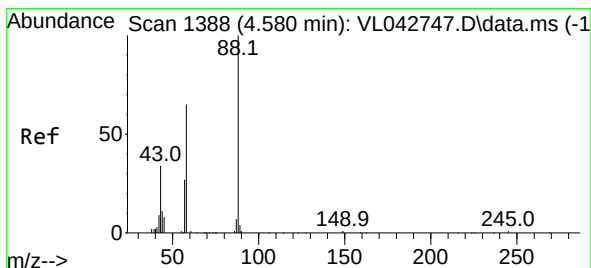
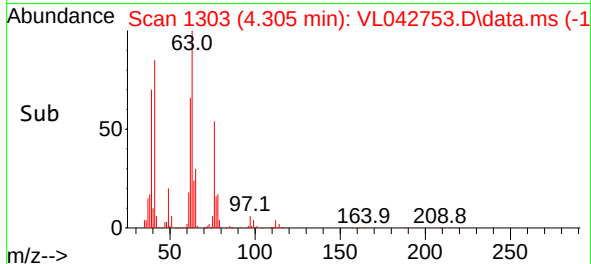
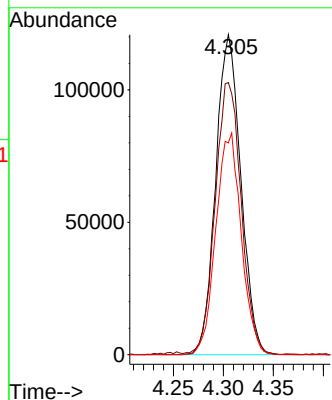
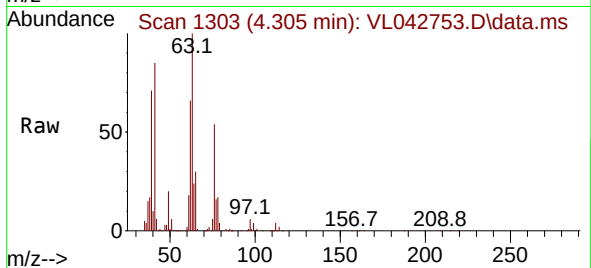
Tgt Ion: 63 Resp: 211594

Ion Ratio Lower Upper

63 100

41 85.0 68.2 102.4

62 66.2 52.0 78.0



#40

1,4-Dioxane

Concen: 13.926 ppbv

RT: 4.567 min Scan# 1384

Delta R.T. -0.013 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Tgt Ion: 88 Resp: 98196

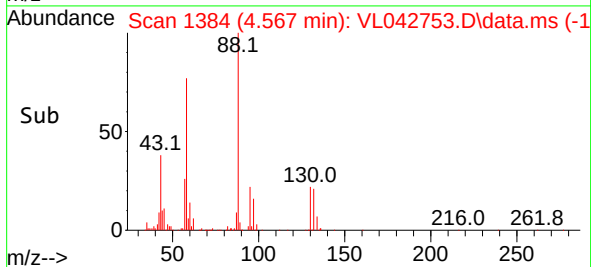
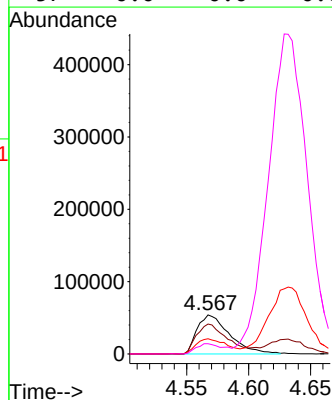
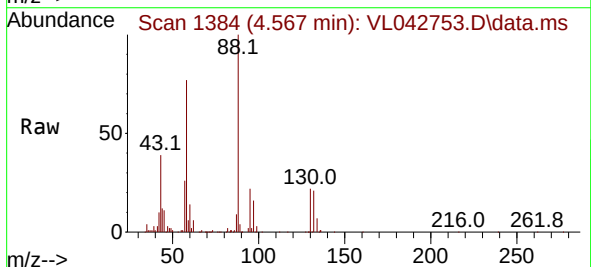
Ion Ratio Lower Upper

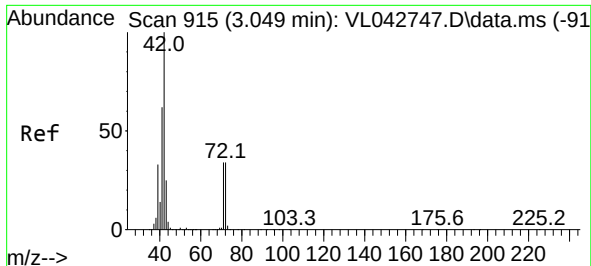
88 100

58 71.9 58.8 88.2

43 35.8 28.9 43.3

57 0.0 0.0 0.0

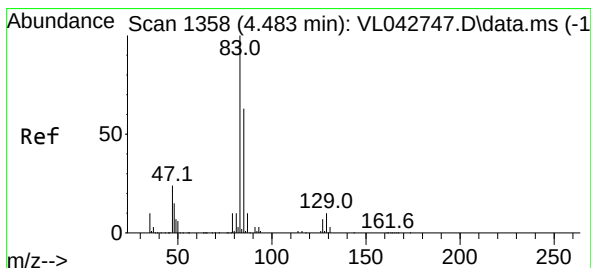
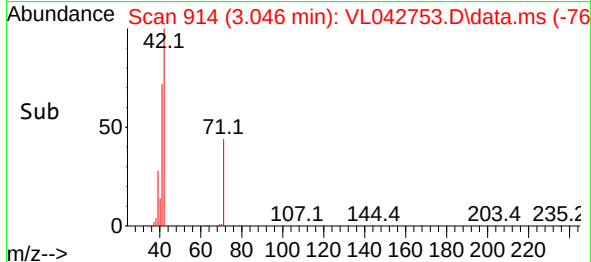
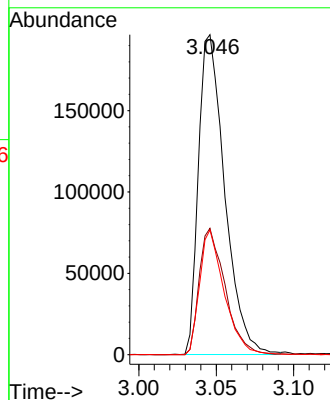
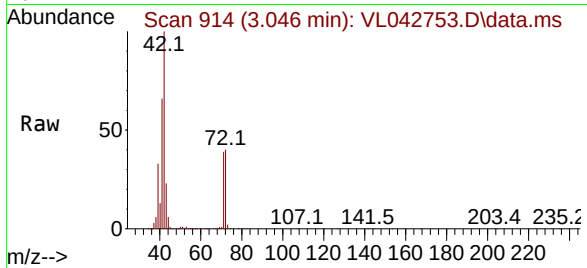




#41
Tetrahydrofuran
Concen: 15.278 ppbv
RT: 3.046 min Scan# 915
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

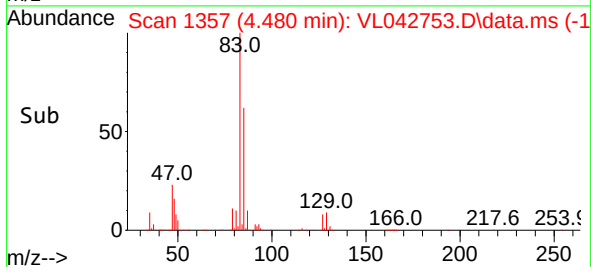
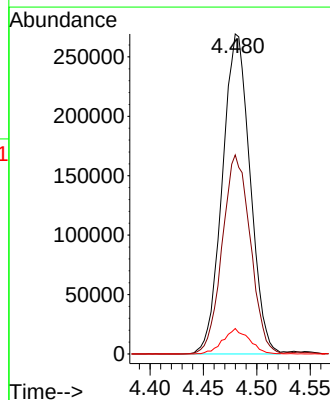
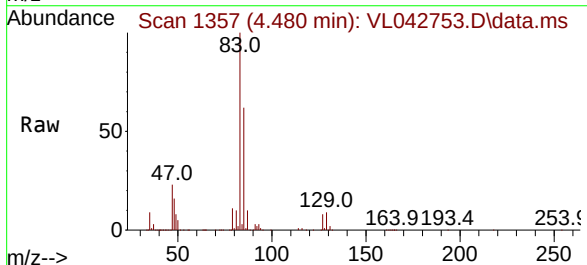
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

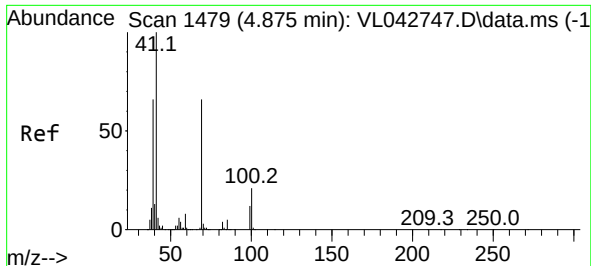
Tgt Ion: 42 Resp: 232393
Ion Ratio Lower Upper
42 100
72 39.2 30.9 46.3
71 36.6 28.6 43.0



#42
Bromodichloromethane
Concen: 15.303 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 83 Resp: 486831
Ion Ratio Lower Upper
83 100
85 62.2 50.2 75.4
127 8.0 5.4 8.2

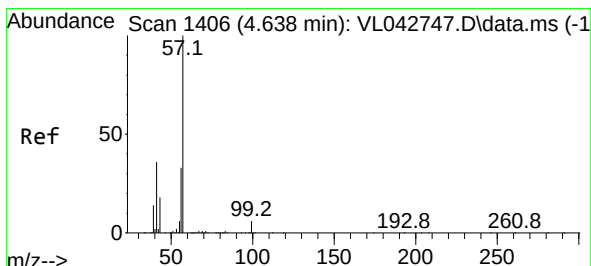
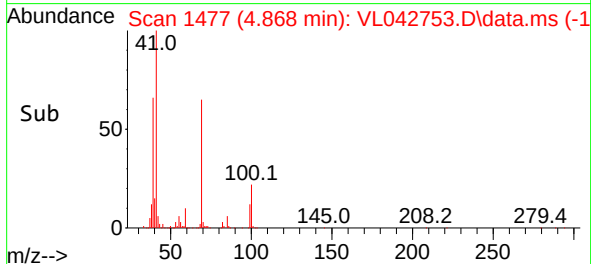
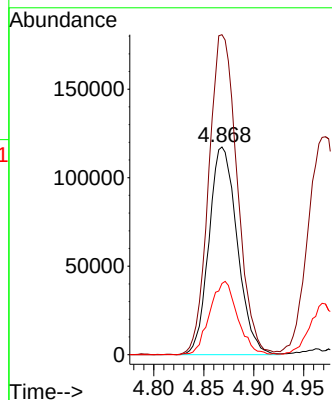
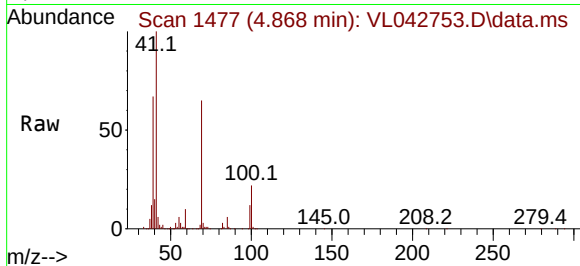




#43
Methyl Methacrylate
Concen: 16.059 ppbv
RT: 4.868 min Scan# 1479
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

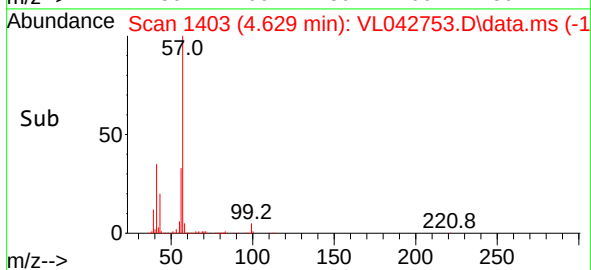
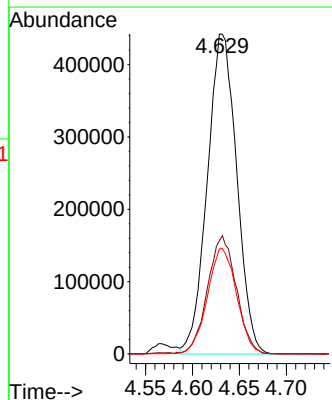
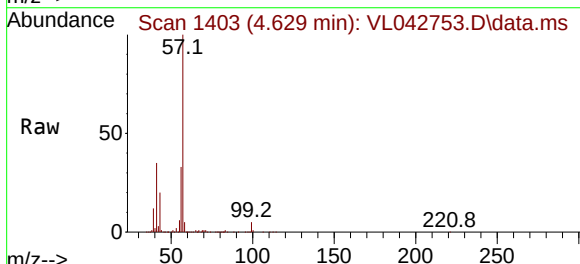
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

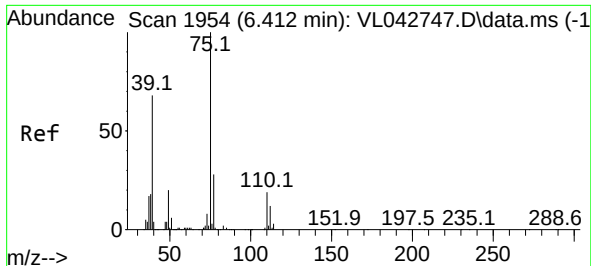
Tgt Ion: 69 Resp: 231227
Ion Ratio Lower Upper
69 100
41 155.0 125.7 188.5
100 34.8 28.6 42.8



#44
2,2,4-Trimethylpentane
Concen: 14.598 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 57 Resp: 963867
Ion Ratio Lower Upper
57 100
41 36.4 28.3 42.5
56 32.9 25.8 38.6

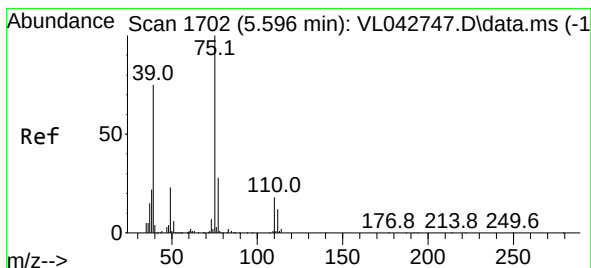
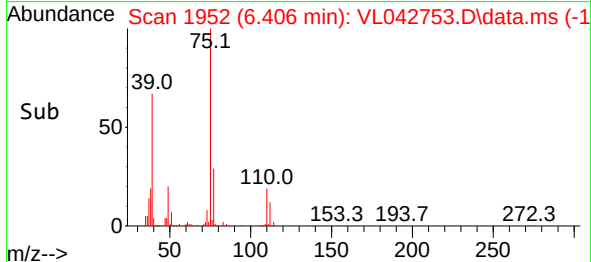
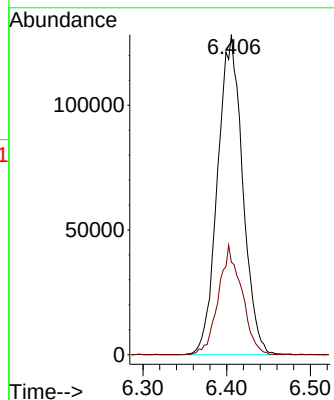
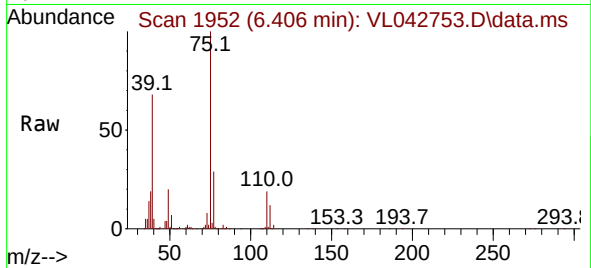




#45
 t-1,3-Dichloropropene
 Concen: 16.478 ppbv
 RT: 6.406 min Scan# 1699
 Delta R.T. -0.006 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

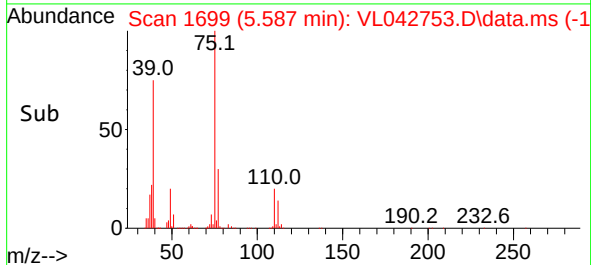
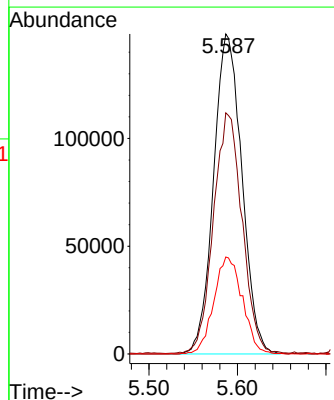
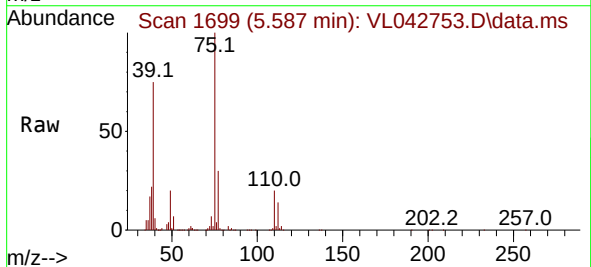
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

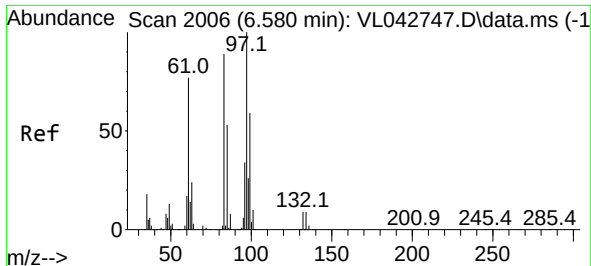
Tgt Ion: 75 Resp: 266194
 Ion Ratio Lower Upper
 75 100
 77 28.9 22.4 33.6



#46
 cis-1,3-Dichloropropene
 Concen: 16.115 ppbv
 RT: 5.587 min Scan# 1699
 Delta R.T. -0.010 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion: 75 Resp: 329850
 Ion Ratio Lower Upper
 75 100
 39 74.8 60.2 90.2
 77 30.2 22.6 34.0





#47

1,1,2-Trichloroethane

Concen: 14.335 ppbv

RT: 6.567 min Scan# 2006

Delta R.T. -0.013 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 228492

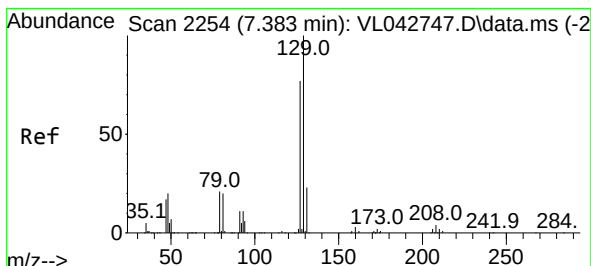
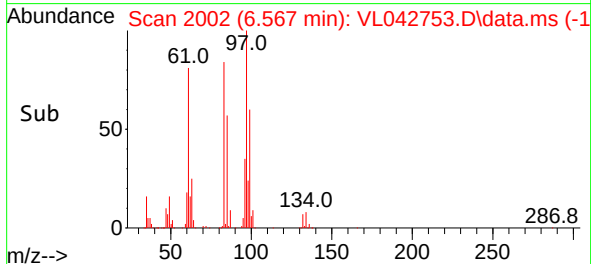
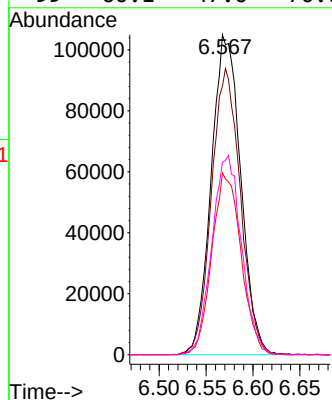
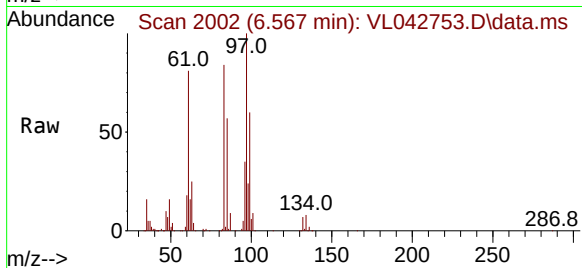
Ion Ratio Lower Upper

97 100

83 83.7 71.1 106.7

85 56.7 43.0 64.4

99 60.1 47.0 70.6



#48

Dibromochloromethane

Concen: 15.695 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. -0.003 min

Lab File: VL042753.D

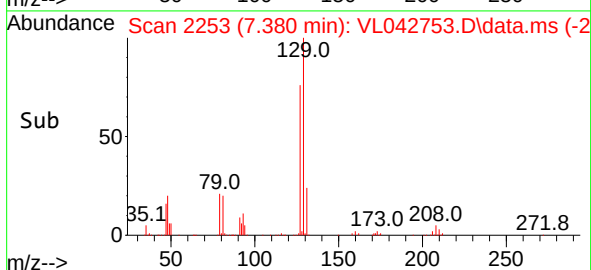
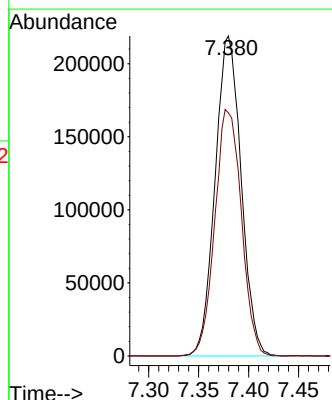
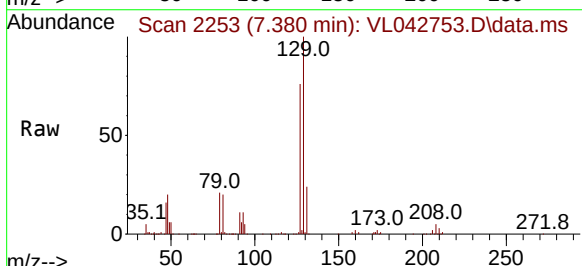
Acq: 23 Jul 2025 12:26

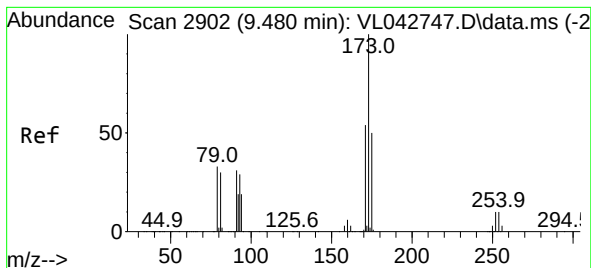
Tgt Ion: 129 Resp: 397179

Ion Ratio Lower Upper

129 100

127 78.5 38.7 116.1





#49

Bromoform

Concen: 15.955 ppbv

RT: 9.477 min Scan# 2901

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

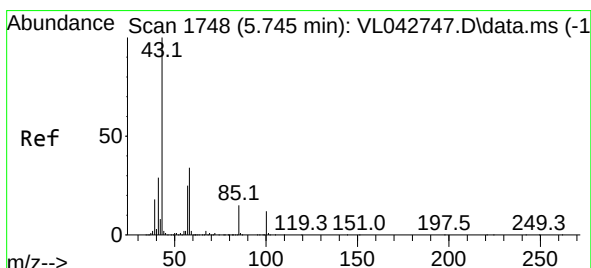
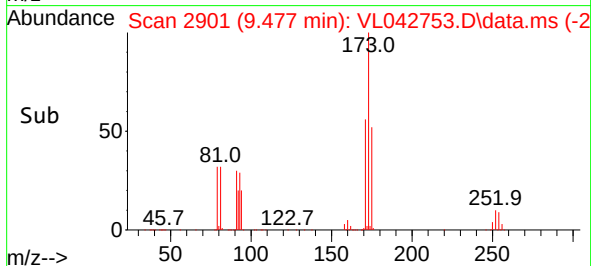
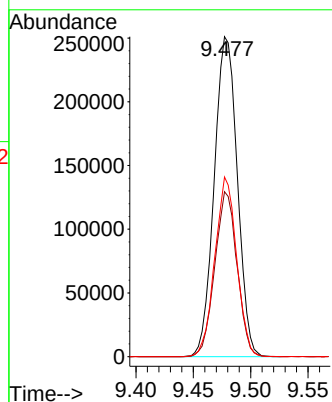
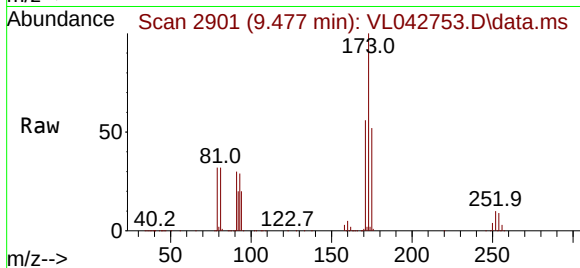
Tgt Ion:173 Resp: 352050

Ion Ratio Lower Upper

173 100

175 49.6 38.4 57.6

171 53.1 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 15.427 ppbv

RT: 5.732 min Scan# 1744

Delta R.T. -0.013 min

Lab File: VL042753.D

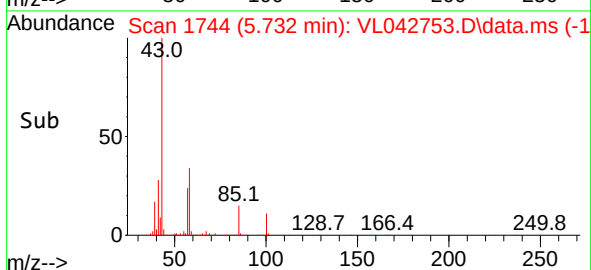
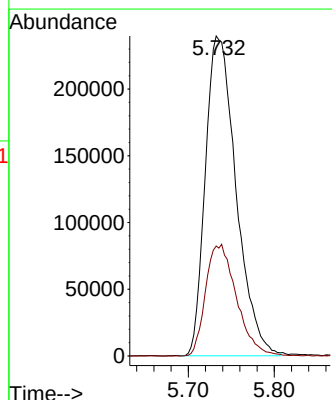
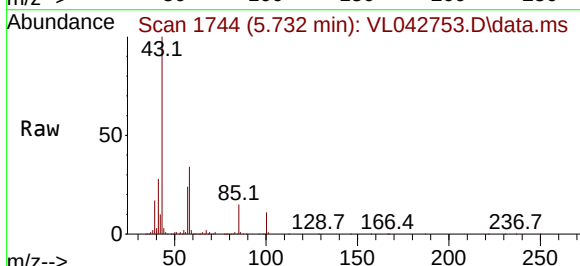
Acq: 23 Jul 2025 12:26

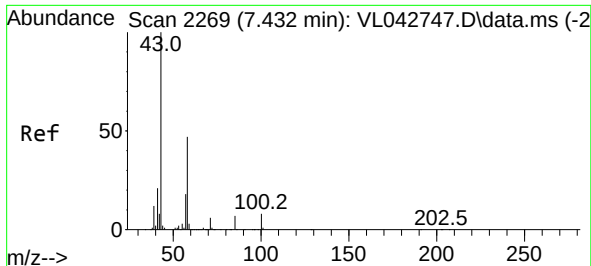
Tgt Ion: 43 Resp: 594973

Ion Ratio Lower Upper

43 100

58 35.1 27.8 41.8

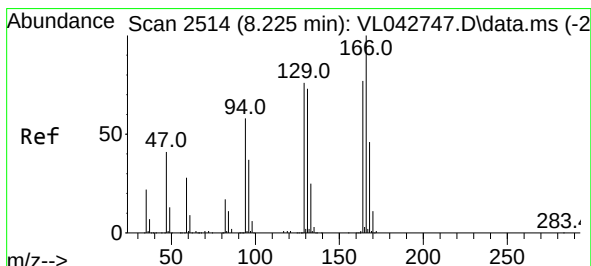
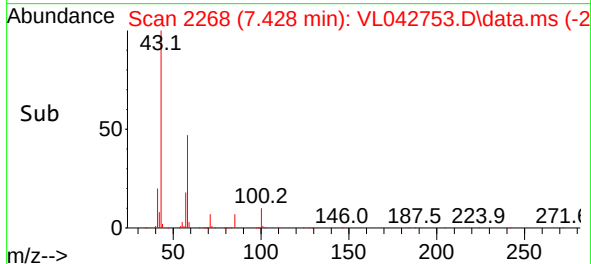
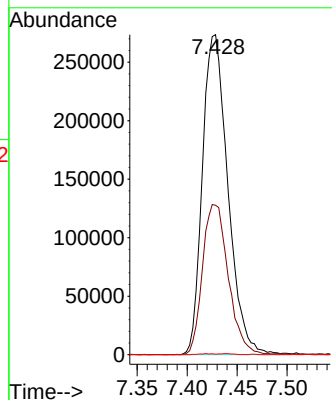
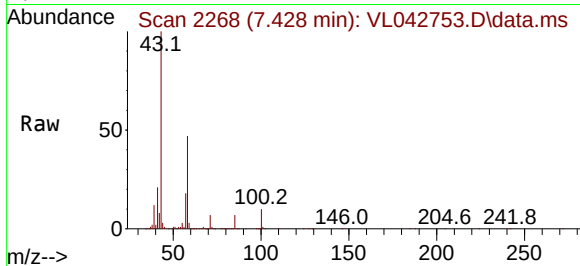




#51
 2-Hexanone
 Concen: 16.467 ppbv
 RT: 7.428 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

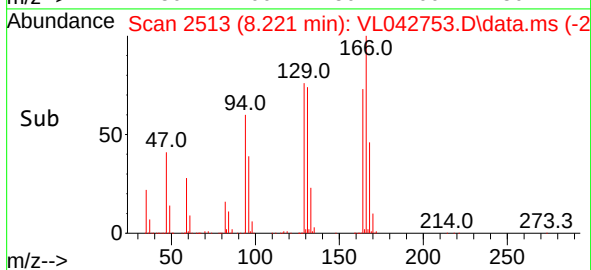
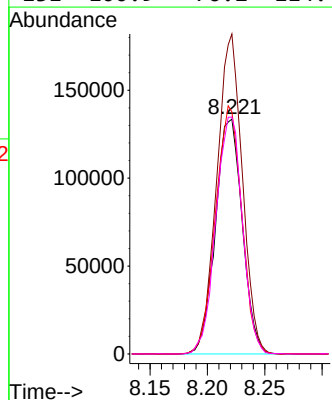
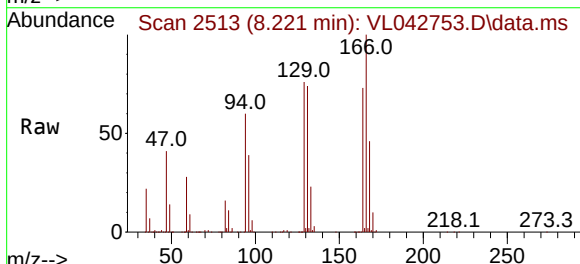
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

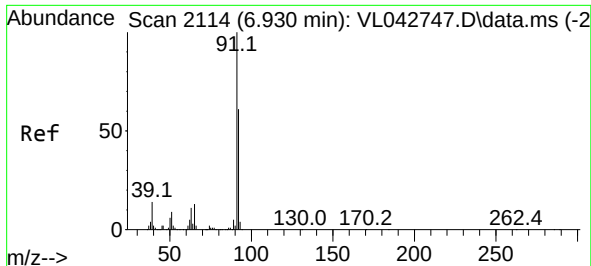
Tgt Ion: 43 Resp: 485325
 Ion Ratio Lower Upper
 43 100
 58 47.7 38.0 57.0
 98 0.4 0.2 0.4#



#52
 Tetrachloroethene
 Concen: 12.899 ppbv
 RT: 8.221 min Scan# 2513
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion:164 Resp: 217184
 Ion Ratio Lower Upper
 164 100
 166 136.3 104.0 156.0
 129 103.1 79.2 118.8
 131 100.9 76.2 114.4





#53

Toluene

Concen: 15.405 ppbv

RT: 6.923 min Scan# 2112

Delta R.T. -0.006 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

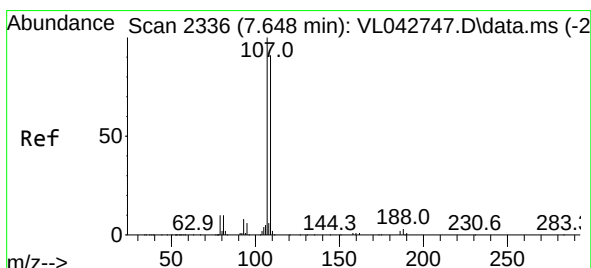
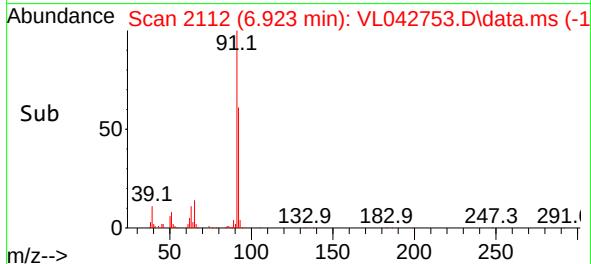
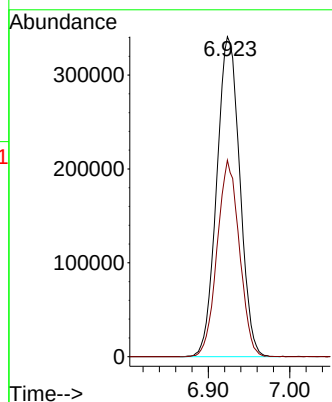
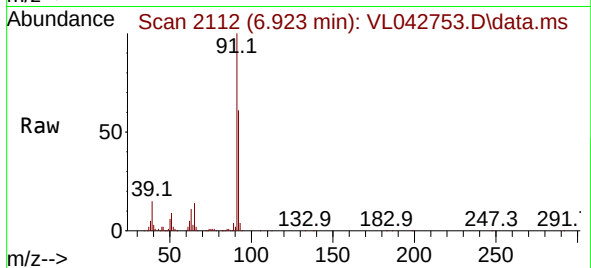
VSTDIC015

Tgt Ion: 91 Resp: 670142

Ion Ratio Lower Upper

91 100

92 59.3 48.0 72.0



#54

1,2-Dibromoethane

Concen: 15.019 ppbv

RT: 7.645 min Scan# 2335

Delta R.T. -0.003 min

Lab File: VL042753.D

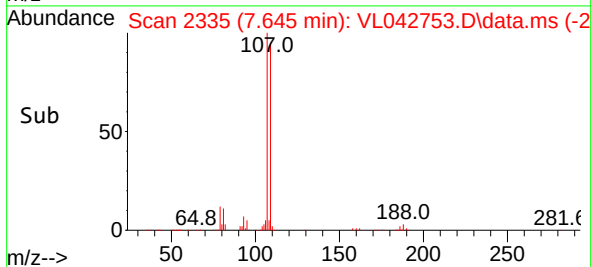
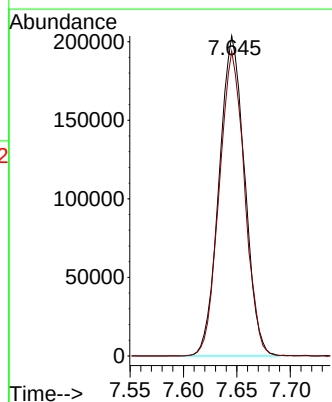
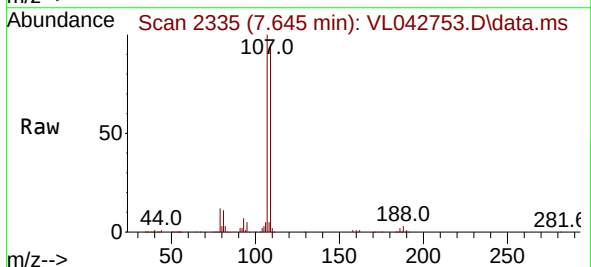
Acq: 23 Jul 2025 12:26

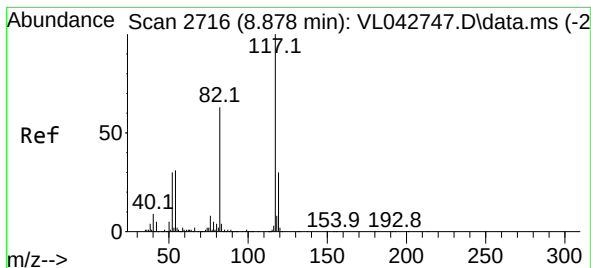
Tgt Ion: 107 Resp: 338867

Ion Ratio Lower Upper

107 100

109 95.1 72.7 109.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2716

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

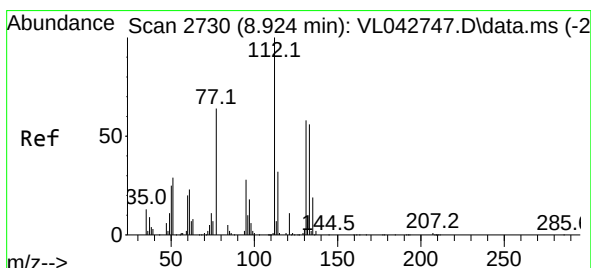
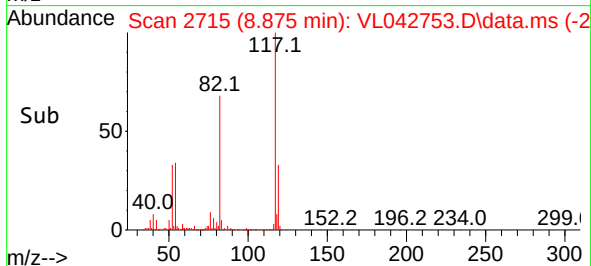
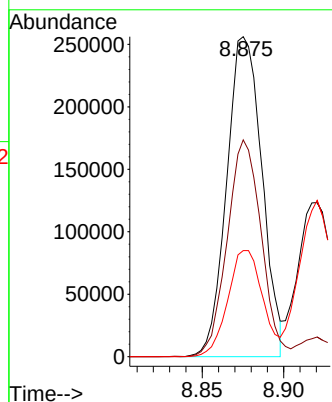
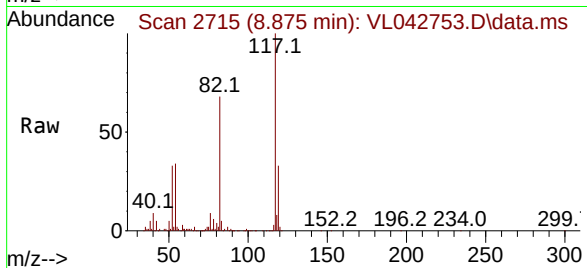
Tgt Ion:117 Resp: 385223

Ion Ratio Lower Upper

117 100

82 71.0 53.3 79.9

119 32.3 25.8 38.6



#56

1,1,1,2-Tetrachloroethane

Concen: 14.648 ppbv

RT: 8.920 min Scan# 2729

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

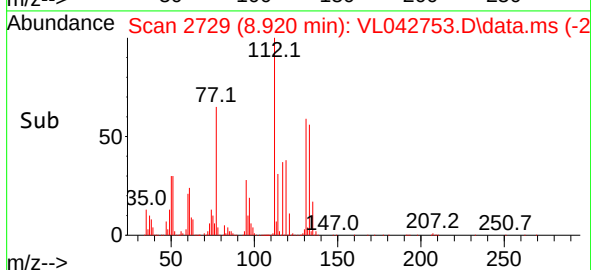
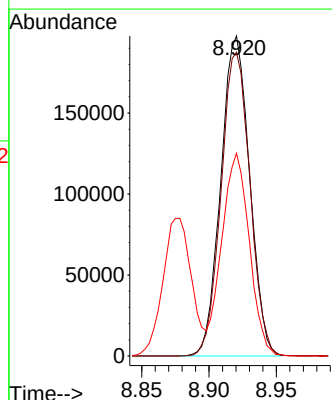
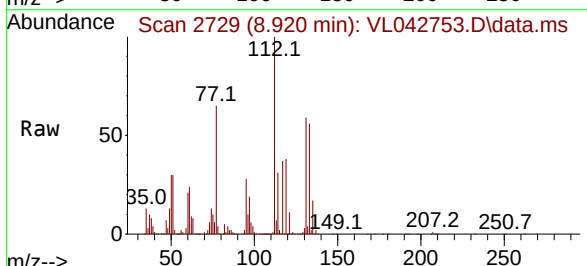
Tgt Ion:131 Resp: 293384

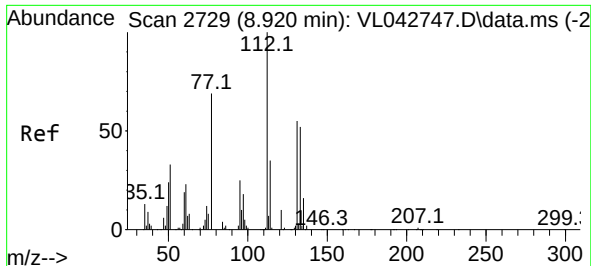
Ion Ratio Lower Upper

131 100

133 95.4 76.8 115.2

119 60.7 49.7 74.5





#57

Chlorobenzene

Concen: 14.025 ppbv

RT: 8.917 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

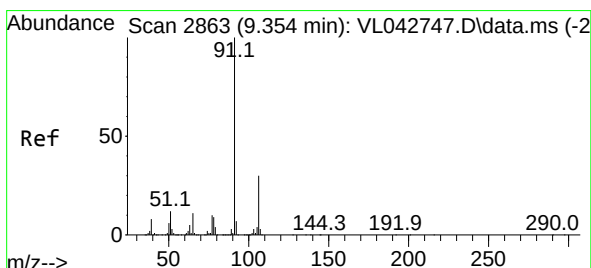
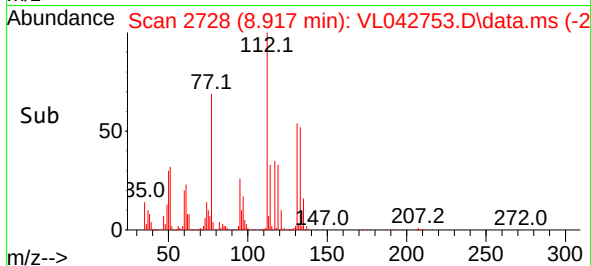
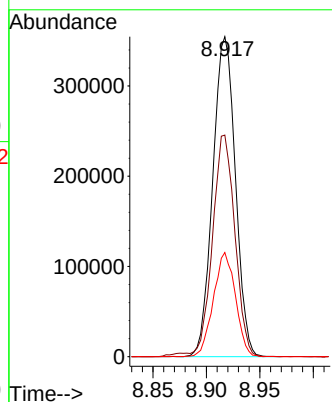
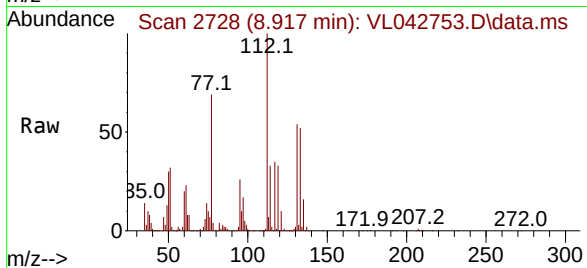
Tgt Ion:112 Resp: 522894

Ion Ratio Lower Upper

112 100

77 69.2 56.4 84.6

114 32.6 31.2 38.2



#58

Ethyl Benzene

Concen: 15.454 ppbv

RT: 9.351 min Scan# 2862

Delta R.T. -0.003 min

Lab File: VL042753.D

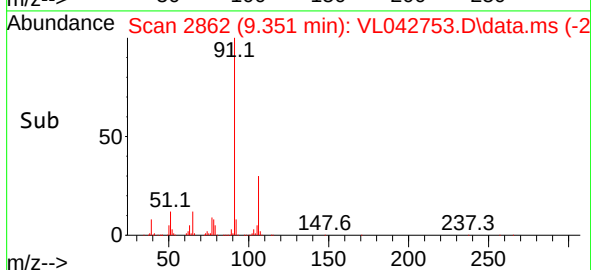
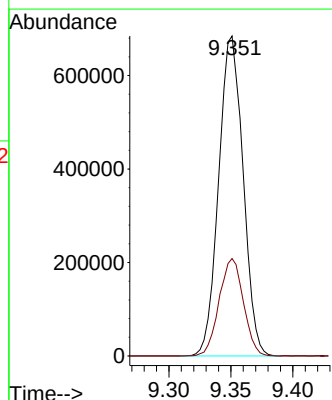
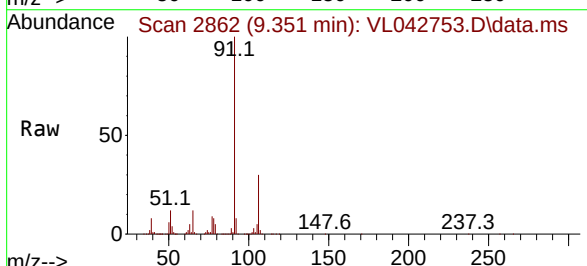
Acq: 23 Jul 2025 12:26

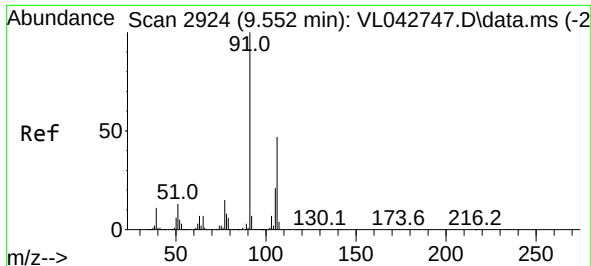
Tgt Ion: 91 Resp: 940159

Ion Ratio Lower Upper

91 100

106 30.5 23.8 35.6





#59

m/p-Xylene

Concen: 15.756 ppbv

RT: 9.545 min Scan# 29

Delta R.T. -0.006 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

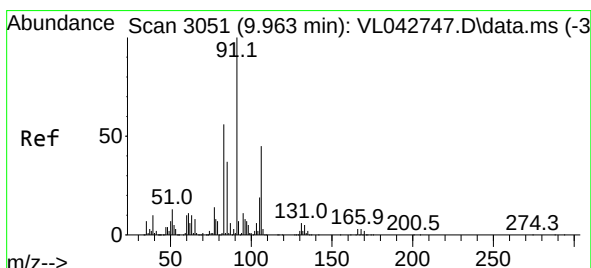
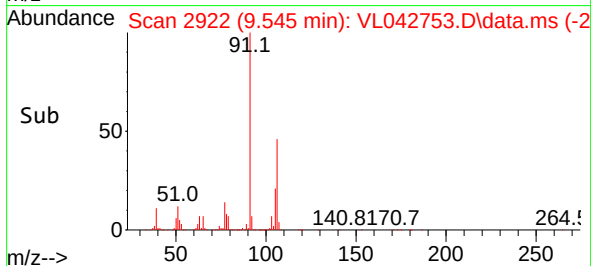
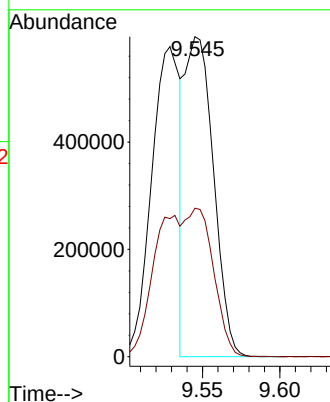
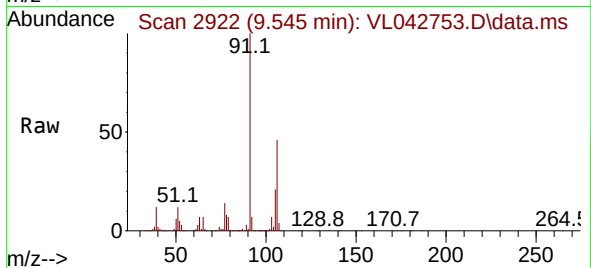
VSTDIC015

Tgt Ion: 91 Resp: 766284

Ion Ratio Lower Upper

91 100

106 91.0 37.4 56.2#



#60

o-Xylene

Concen: 15.030 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042753.D

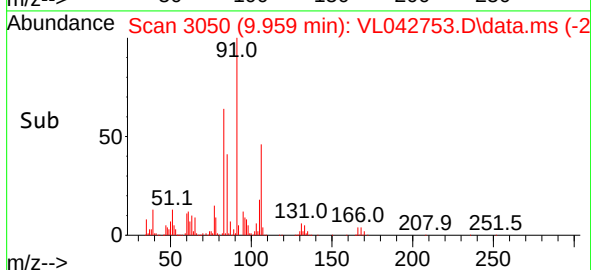
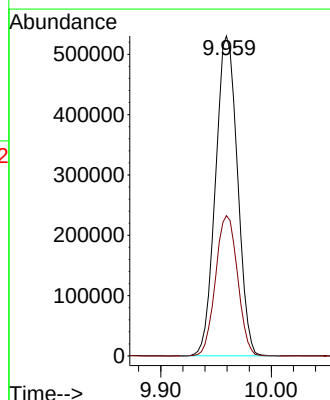
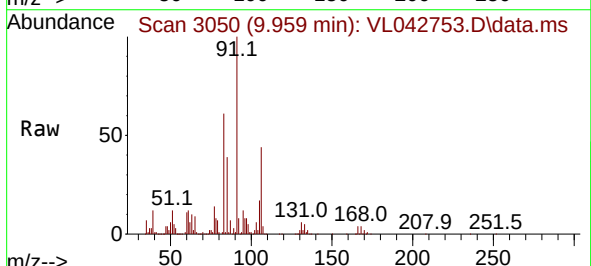
Acq: 23 Jul 2025 12:26

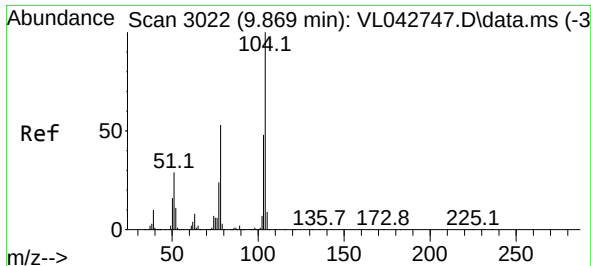
Tgt Ion: 91 Resp: 730161

Ion Ratio Lower Upper

91 100

106 44.1 22.0 66.0





#61

Styrene

Concen: 16.805 ppbv

RT: 9.866 min Scan# 3022

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

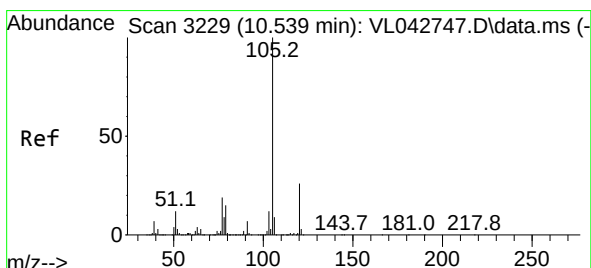
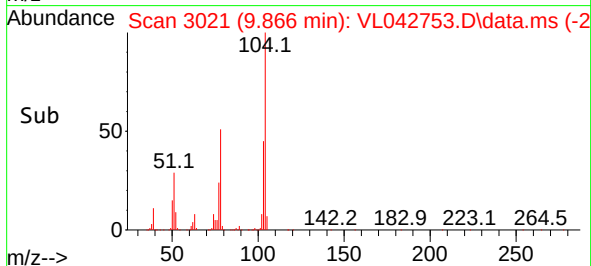
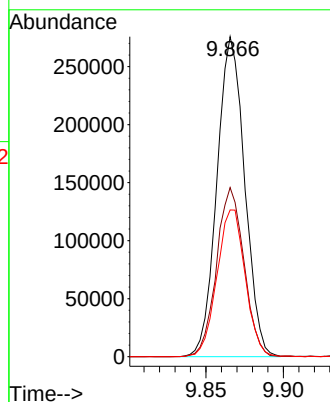
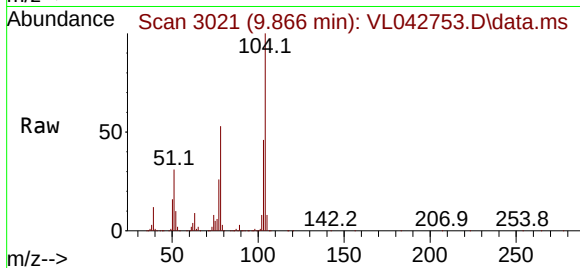
Tgt Ion:104 Resp: 343429

Ion Ratio Lower Upper

104 100

78 52.3 41.5 62.3

103 46.9 37.5 56.3



#62

Isopropylbenzene

Concen: 15.049 ppbv

RT: 10.536 min Scan# 3228

Delta R.T. -0.003 min

Lab File: VL042753.D

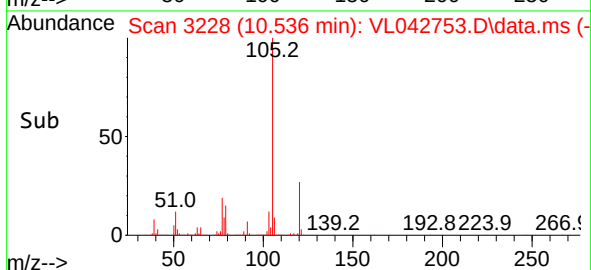
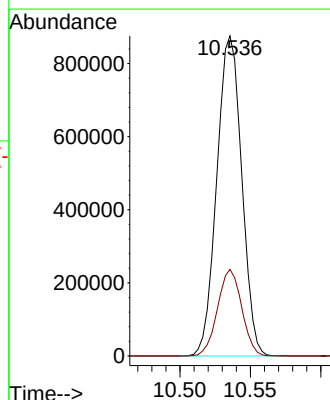
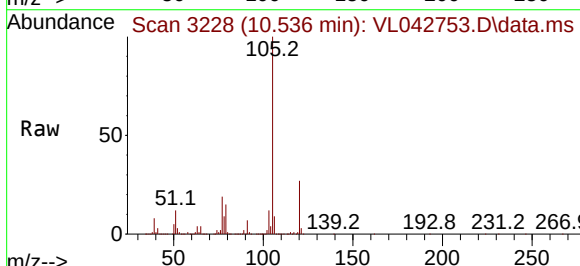
Acq: 23 Jul 2025 12:26

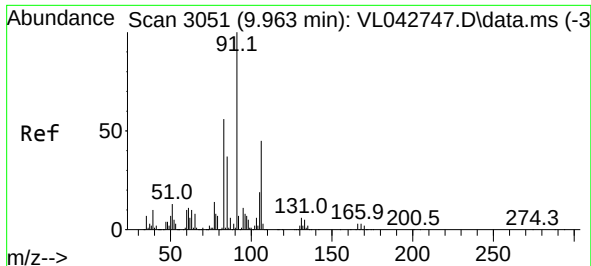
Tgt Ion:105 Resp: 1078393

Ion Ratio Lower Upper

105 100

120 26.2 20.5 30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 13.261 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

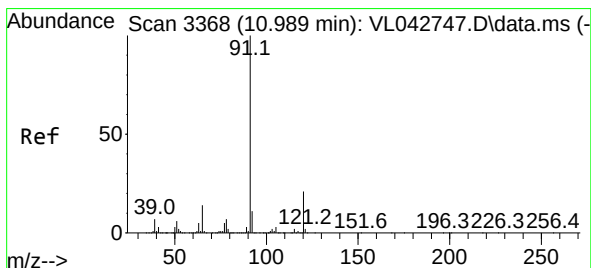
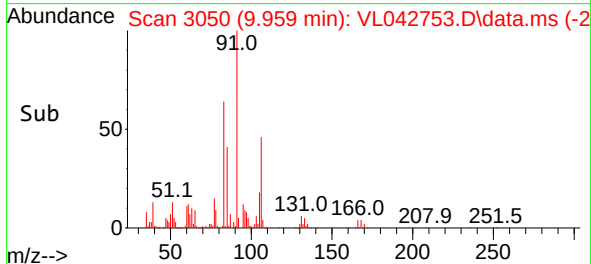
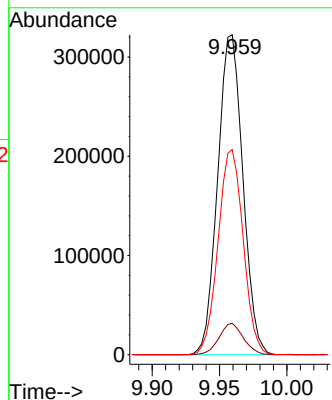
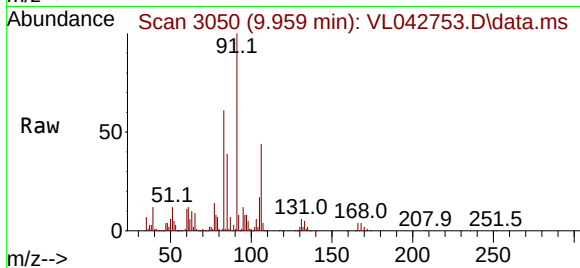
Tgt Ion: 83 Resp: 419734

Ion Ratio Lower Upper

83 100

131 9.5 5.0 15.0

85 63.8 32.6 97.7



#64

n-propylbenzene

Concen: 15.348 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.003 min

Lab File: VL042753.D

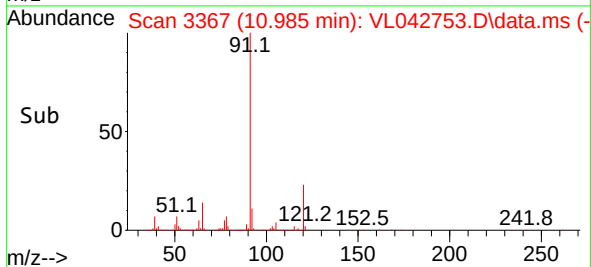
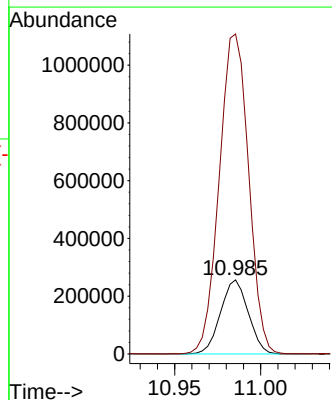
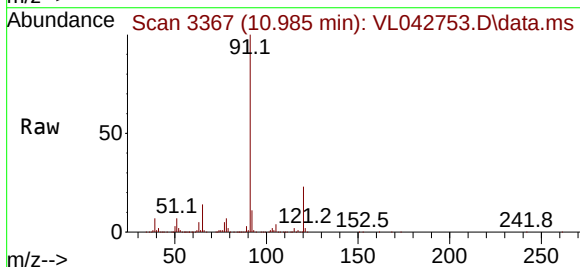
Acq: 23 Jul 2025 12:26

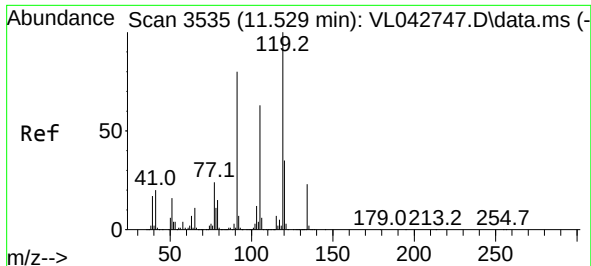
Tgt Ion: 120 Resp: 286724

Ion Ratio Lower Upper

120 100

91 458.1 372.7 559.1

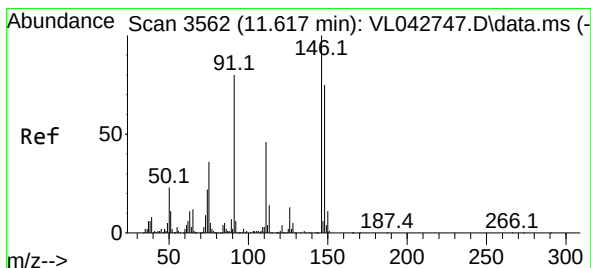
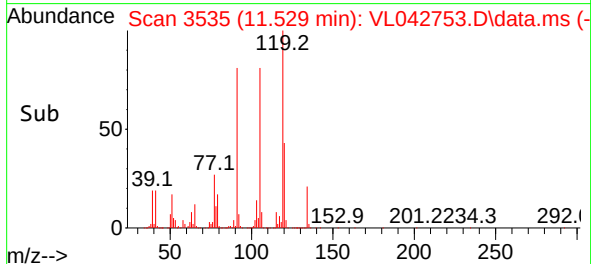
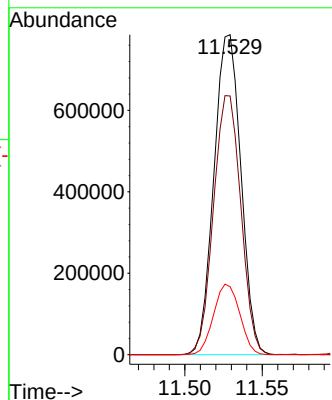
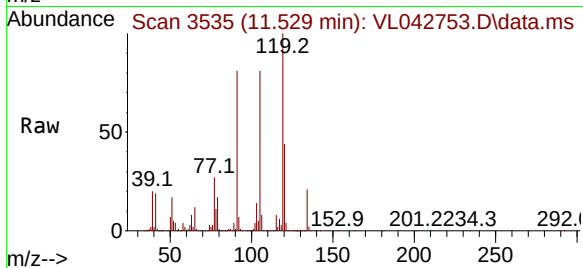




#65
tert-Butylbenzene
Concen: 14.995 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

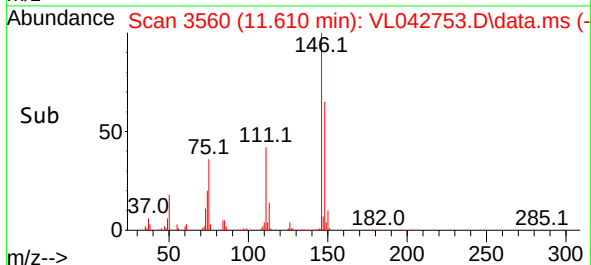
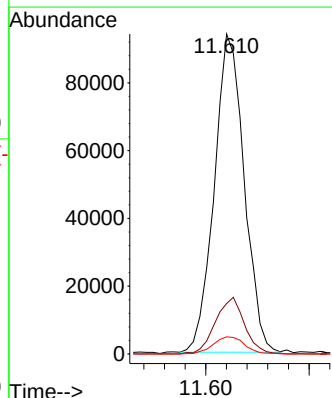
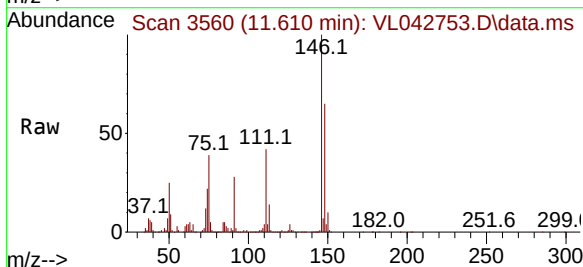
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

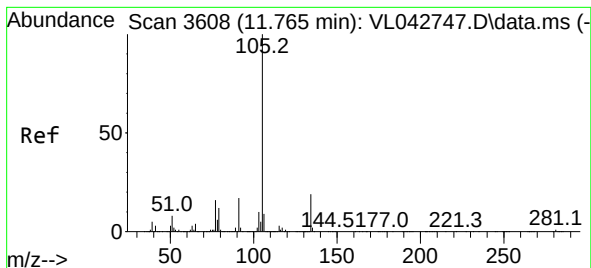
Tgt Ion:119 Resp: 954459
Ion Ratio Lower Upper
119 100
91 81.9 64.0 96.0
134 21.4 17.3 25.9



#66
Benzyl Chloride
Concen: 18.031 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion: 91 Resp: 94218
Ion Ratio Lower Upper
91 100
126 17.3 14.4 21.6
128 5.7 5.2 7.8

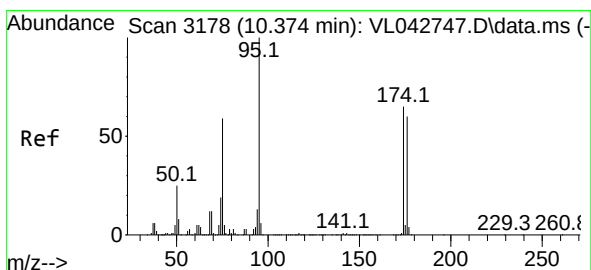
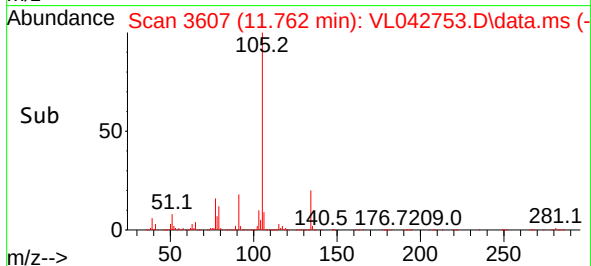
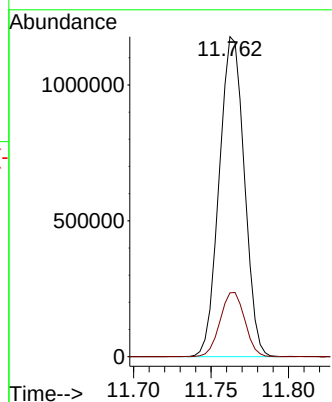
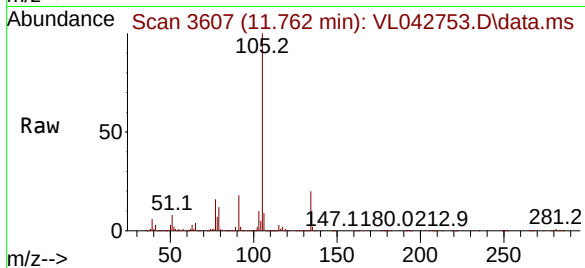




#67
 sec-Butylbenzene
 Concen: 14.662 ppbv
 RT: 11.762 min Scan# 3107
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

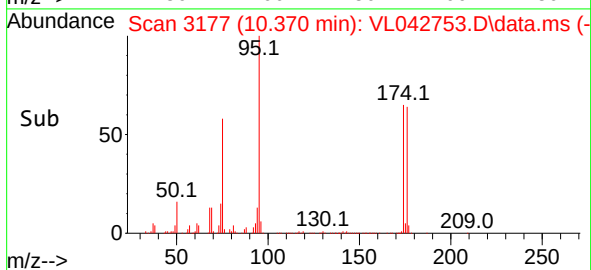
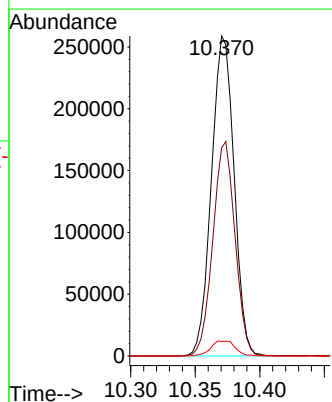
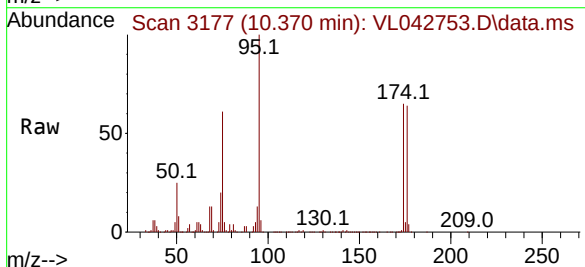
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

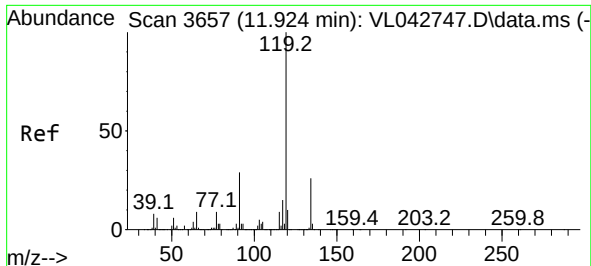
Tgt Ion:105 Resp: 1327393
 Ion Ratio Lower Upper
 105 100
 134 19.8 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.335 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion: 95 Resp: 315293
 Ion Ratio Lower Upper
 95 100
 174 65.7 53.8 80.6
 175 5.0 4.0 6.0

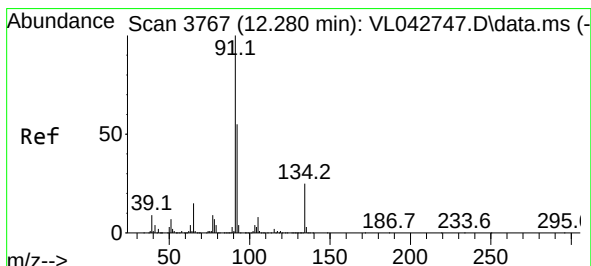
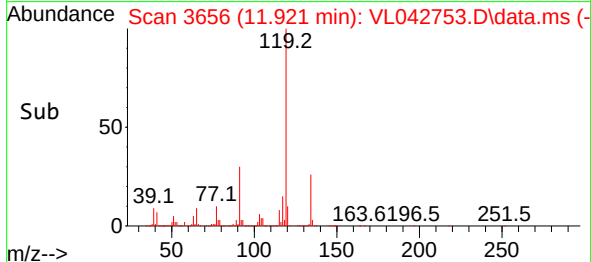
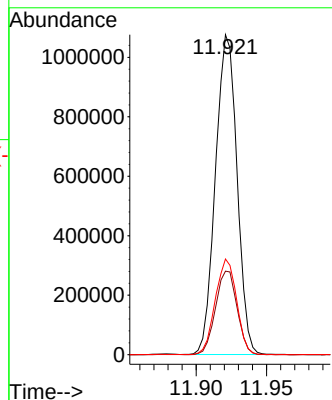
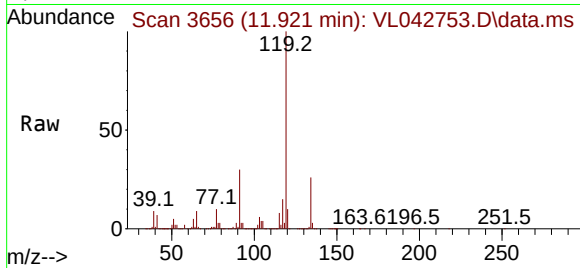




#69
 p-Isopropyltoluene
 Concen: 15.571 ppbv
 RT: 11.921 min Scan# 3656
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

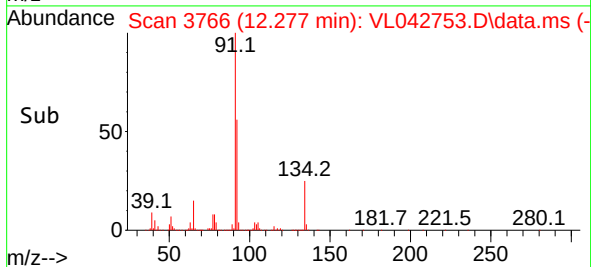
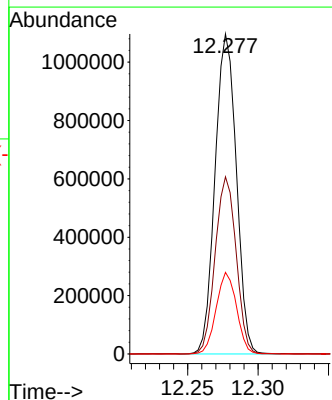
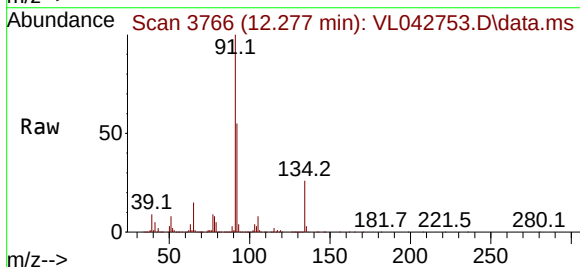
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

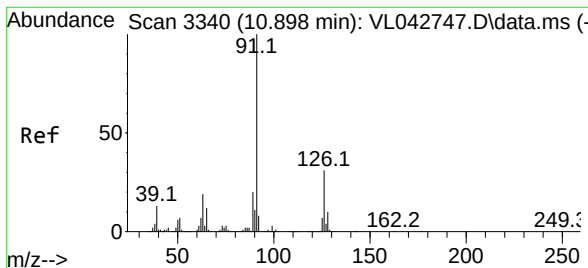
Tgt Ion:119 Resp: 1149418
 Ion Ratio Lower Upper
 119 100
 134 26.3 20.6 31.0
 91 29.6 23.2 34.8



#70
 n-Butylbenzene
 Concen: 16.159 ppbv
 RT: 12.277 min Scan# 3766
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Tgt Ion: 91 Resp: 1152207
 Ion Ratio Lower Upper
 91 100
 92 54.6 43.4 65.2
 134 24.5 19.6 29.4

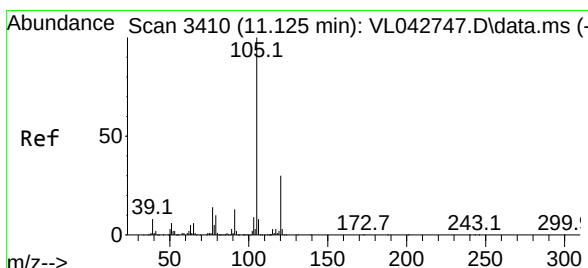
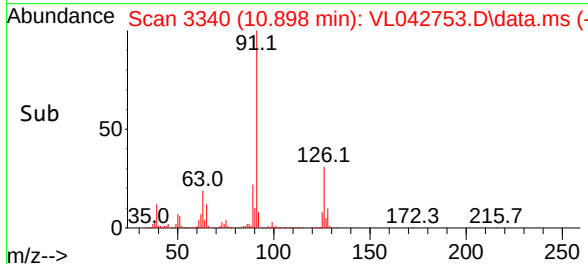
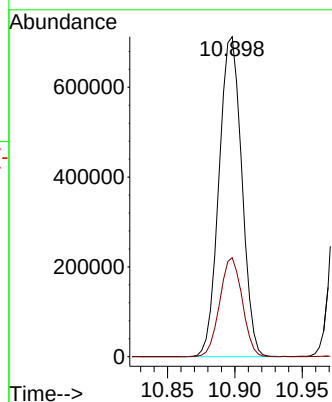
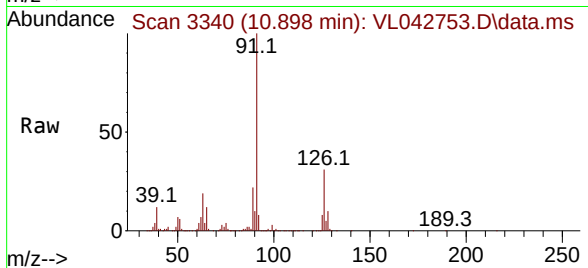




#71
2-Chlorotoluene
Concen: 15.257 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

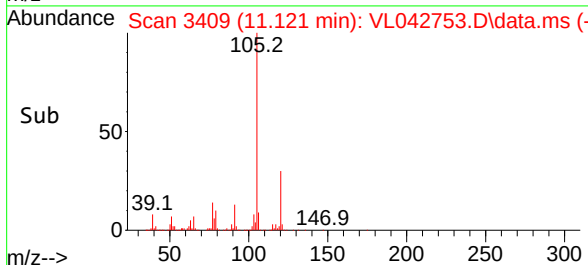
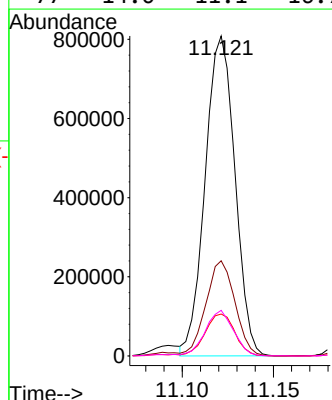
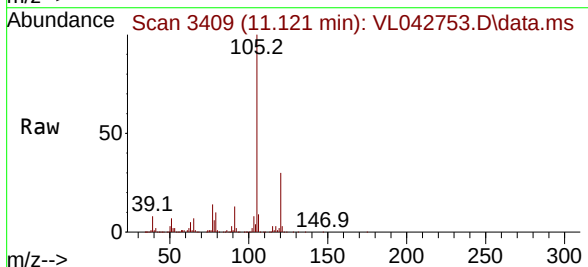
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

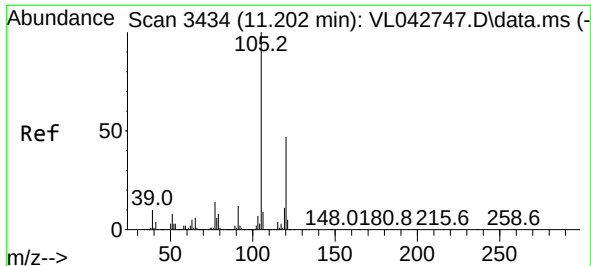
Tgt Ion: 91 Resp: 838335
Ion Ratio Lower Upper
91 100
126 30.5 12.0 48.2



#72
4-Ethyltoluene
Concen: 15.830 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:105 Resp: 918453
Ion Ratio Lower Upper
105 100
120 30.1 24.4 36.6
91 13.5 10.6 15.8
77 14.0 11.1 16.7

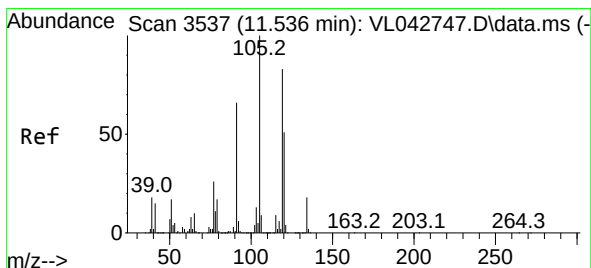
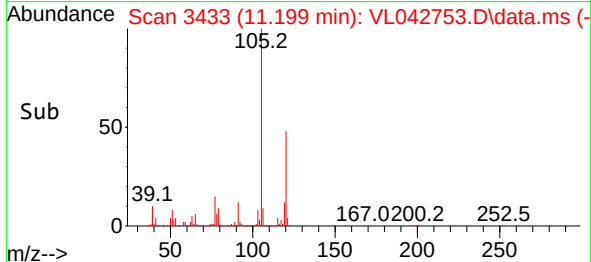
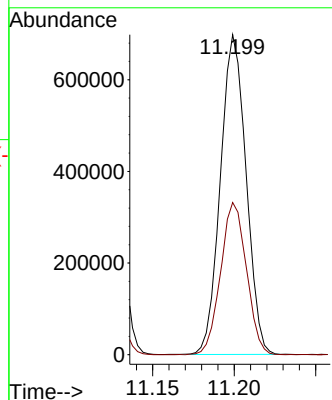
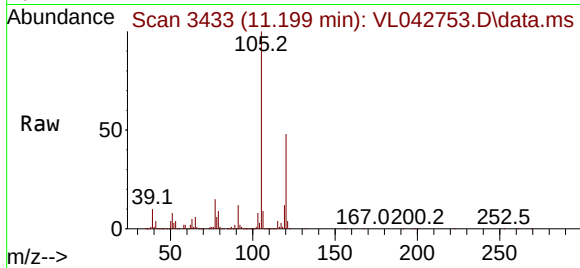




#73
1,3,5-Trimethylbenzene
Concen: 15.977 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

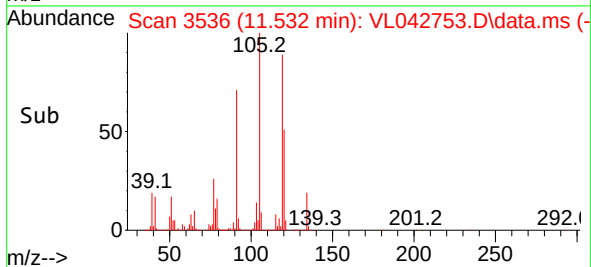
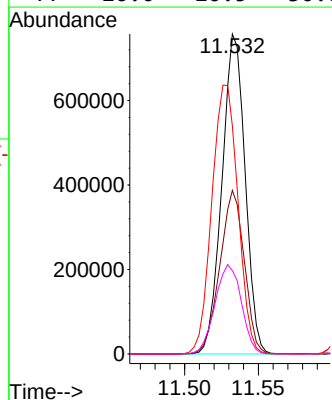
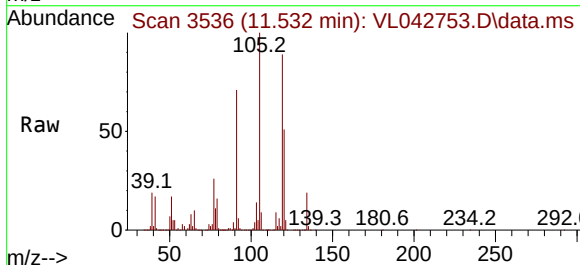
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

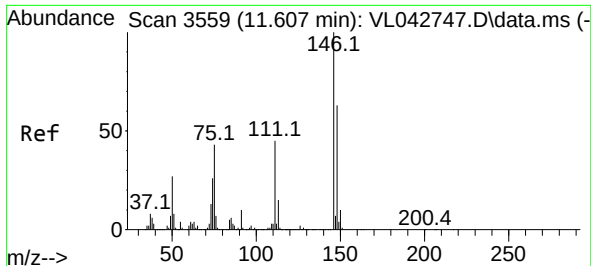
Tgt Ion:105 Resp: 763212
Ion Ratio Lower Upper
105 100
120 47.5 37.8 56.8



#74
1,2,4-Trimethylbenzene
Concen: 15.873 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:105 Resp: 827222
Ion Ratio Lower Upper
105 100
120 51.1 40.8 61.2
91 71.2 53.0 79.4
77 26.0 20.5 30.7

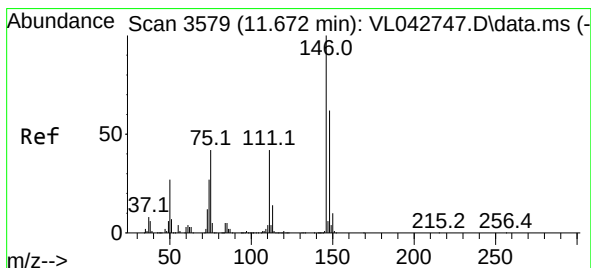
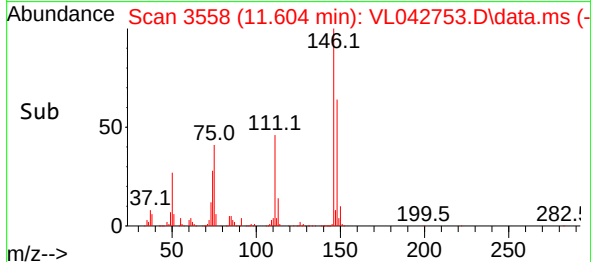
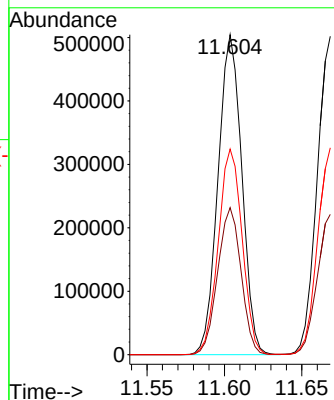
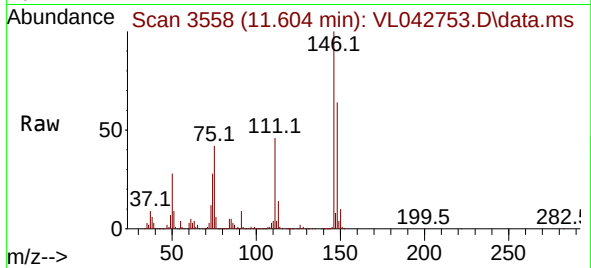




#75
1,3-Dichlorobenzene
Concen: 14.761 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

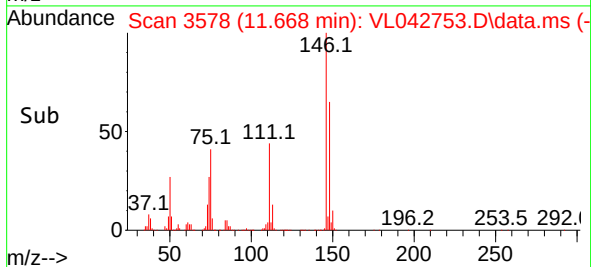
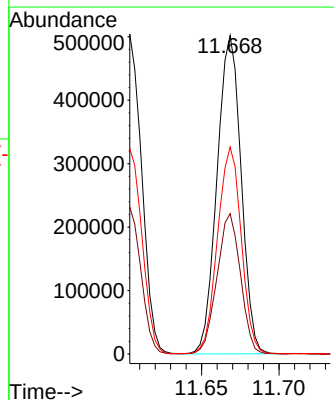
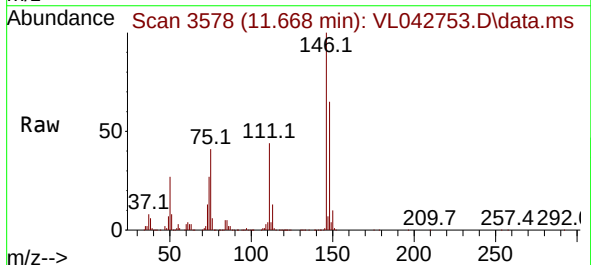
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

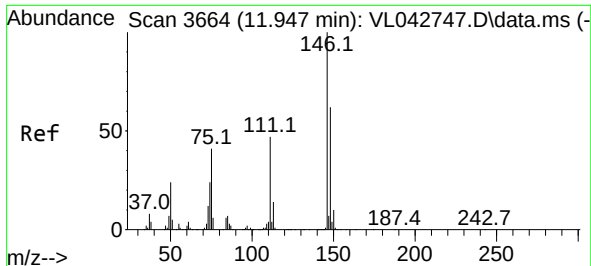
Tgt Ion:146 Resp: 539284
Ion Ratio Lower Upper
146 100
111 45.2 22.7 68.0
148 64.6 31.9 95.5



#76
1,4-Dichlorobenzene
Concen: 15.188 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:146 Resp: 542998
Ion Ratio Lower Upper
146 100
111 43.1 21.4 64.2
148 64.3 32.1 96.3

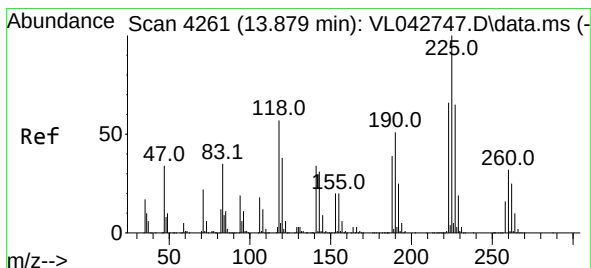
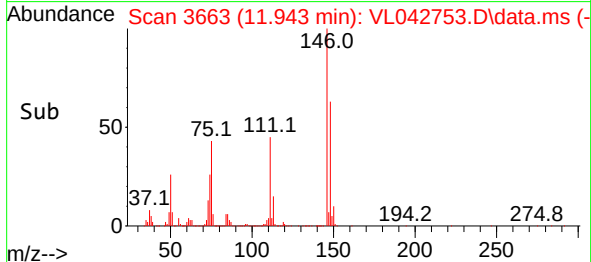
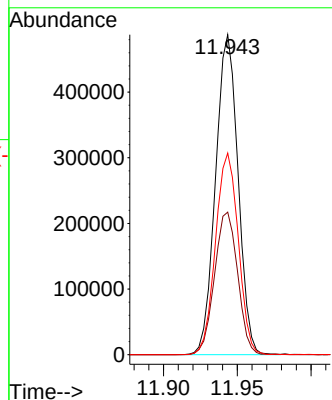
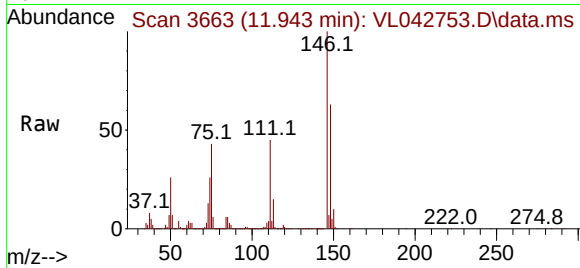




#77
1,2-Dichlorobenzene
Concen: 14.390 ppbv
RT: 11.943 min Scan# 30
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

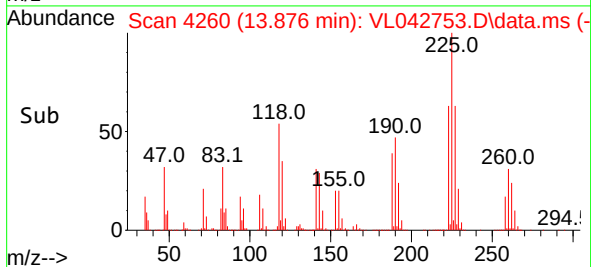
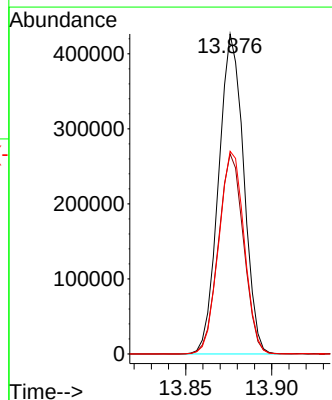
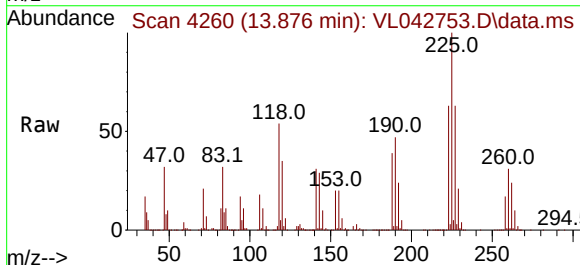
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

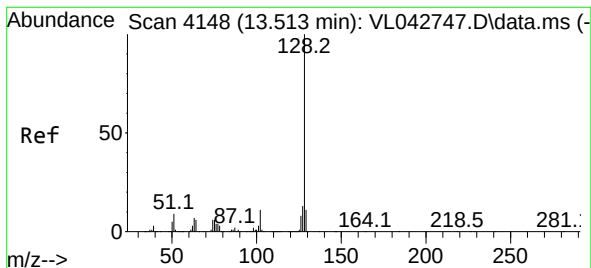
Tgt Ion:146 Resp: 516714
Ion Ratio Lower Upper
146 100
111 45.9 23.7 71.1
148 64.0 32.6 97.7



#78
Hexachloro-1,3-Butadiene
Concen: 13.296 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.003 min
Lab File: VL042753.D
Acq: 23 Jul 2025 12:26

Tgt Ion:225 Resp: 432138
Ion Ratio Lower Upper
225 100
223 62.9 50.7 76.1
227 64.3 50.5 75.7





#79

Naphthalene

Concen: 15.265 ppbv

RT: 13.507 min Scan# 4146

Delta R.T. -0.006 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

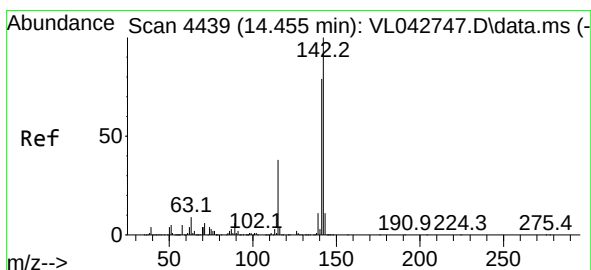
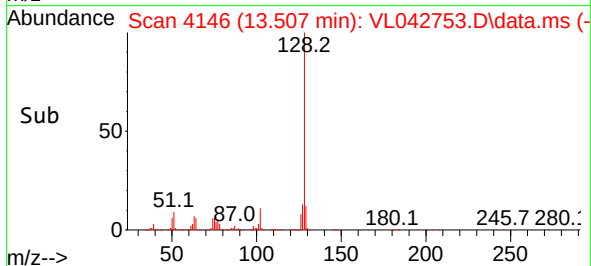
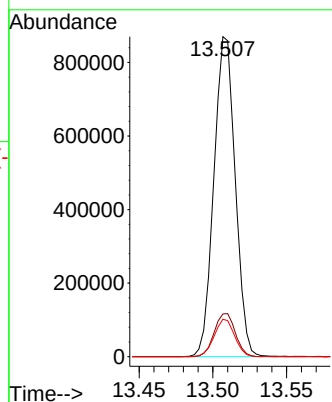
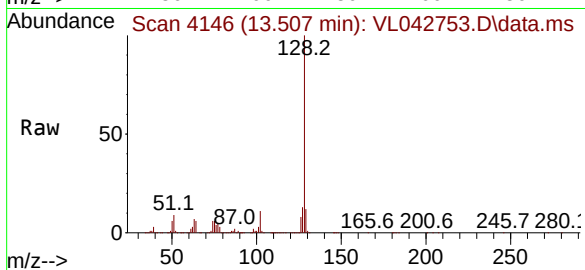
Tgt Ion:128 Resp: 876734

Ion Ratio Lower Upper

128 100

127 13.4 10.5 15.7

129 11.7 8.6 13.0



#80

Naphthalene,2-methyl-

Concen: 15.438 ppbv

RT: 14.452 min Scan# 4438

Delta R.T. -0.003 min

Lab File: VL042753.D

Acq: 23 Jul 2025 12:26

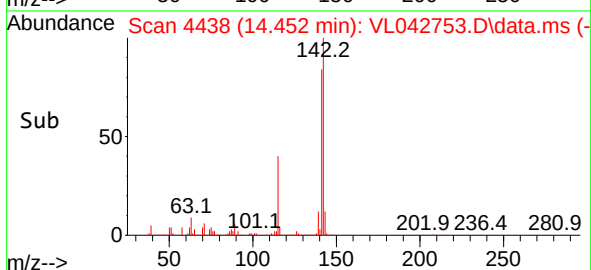
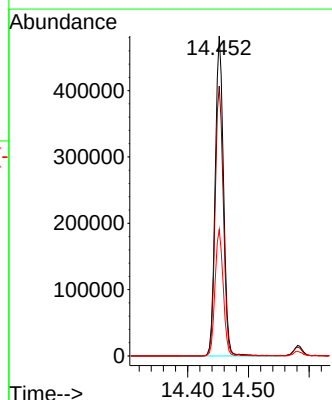
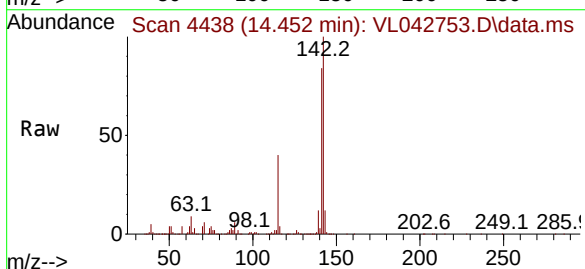
Tgt Ion:142 Resp: 456529

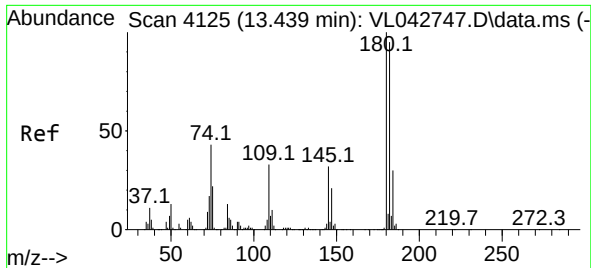
Ion Ratio Lower Upper

142 100

141 84.4 65.8 98.8

115 39.2 31.2 46.8

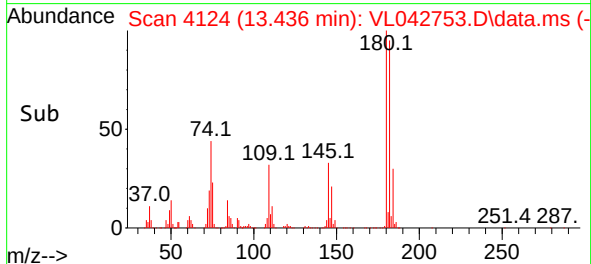
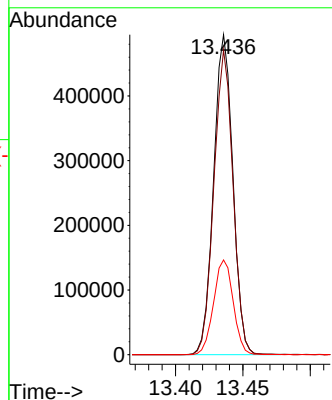
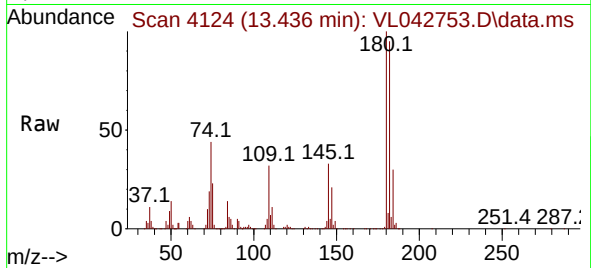




#81
 1,2,4-Trichlorobenzene
 Concen: 15.200 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042753.D
 Acq: 23 Jul 2025 12:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:180 Resp: 490575
 Ion Ratio Lower Upper
 180 100
 182 94.8 76.2 114.2
 184 30.3 24.8 37.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042754.D
 Acq On : 23 Jul 2025 13:00
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Quant Time: Jul 24 05:01:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	152358	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.953	114	438604	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	393042	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	298283	9.583	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	2439	0.121	ppbv	90
3) Chlorodifluoromethane	1.609	51	1060	0.040	ppbv	99
4) Chloromethane	1.532	50	1066	0.131	ppbv	99
5) Vinyl Chloride	1.583	62	837	0.104	ppbv #	60
6) Bromomethane	1.667	94	438	0.141	ppbv	82
7) Chloroethane	1.706	64	526	0.169	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	1725	0.104	ppbv	97
9) Propene	1.486	41	1118	0.117	ppbv #	68
10) Heptane	4.975	43	817	0.032	ppbv #	27
11) Trichlorofluoromethane	1.878	101	2050	0.099	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	1772	0.112	ppbv	96
13) Ethanol	1.891	45	1804	1.545	ppbv	74
14) Bromoethene	1.781	108	778	0.139	ppbv #	54
15) Acetone	1.836	43	3734	0.177	ppbv	95
16) 1,3-Butadiene	1.609	39	976	0.109	ppbv #	41
17) tert-Butyl alcohol	2.040	59	2194	0.116	ppbv #	79
18) 1,1-Dichloroethene	2.036	96	899	0.126	ppbv #	56
19) Isopropyl Alcohol	1.891	45	1804	0.161	ppbv #	59
20) Methylene Chloride	2.062	84	2080	0.314	ppbv #	77
21) Allyl Chloride	2.098	41	1747	0.135	ppbv #	54
22) trans-1,2-Dichloroethene	2.337	96	1116	0.146	ppbv #	63
23) Vinyl Acetate	2.457	43	3460	0.136	ppbv #	61
24) 1,1-Dichloroethane	2.409	63	1620	0.103	ppbv #	90
25) Ethyl Acetate	2.833	43	1813	0.039	ppbv #	67
26) Hexane	2.823	57	1982	0.097	ppbv #	76
27) Carbon Disulfide	2.146	76	1789	0.102	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	1378	0.143	ppbv #	60
29) Chloroform	2.412	83	101	0.003	ppbv	97
30) Cyclohexane	3.852	84	516	0.030	ppbv #	1
31) cis-1,2-Dichloroethene	2.716	61	2152	0.103	ppbv #	87
32) 1,1,1-Trichloroethane	3.363	97	3550	0.108	ppbv	96
34) 2-Butanone	2.564	43	4086	0.132	ppbv	95
35) Carbon Tetrachloride	3.768	117	796	0.024	ppbv	96
36) Benzene	3.658	78	1246	0.030	ppbv	96
37) 1,2-Dichloroethane	3.218	62	1114	0.044	ppbv #	57
38) Trichloroethene	4.538	130	333	0.017	ppbv #	29
39) 1,2-Dichloropropane	3.956	63	113176	7.376	ppbv #	21
40) 1,4-Dioxane	4.603	88	294	0.041	ppbv #	39
41) Tetrahydrofuran	3.050	42	83	0.005	ppbv #	38
42) Bromodichloromethane	4.483	83	1563	0.048	ppbv #	84
43) Methyl Methacrylate	4.865	69	298	0.020	ppbv #	1
44) 2,2,4-Trimethylpentane	4.639	57	1109	0.016	ppbv #	1
45) t-1,3-Dichloropropene	6.412	75	912	0.055	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042754.D
 Acq On : 23 Jul 2025 13:00
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

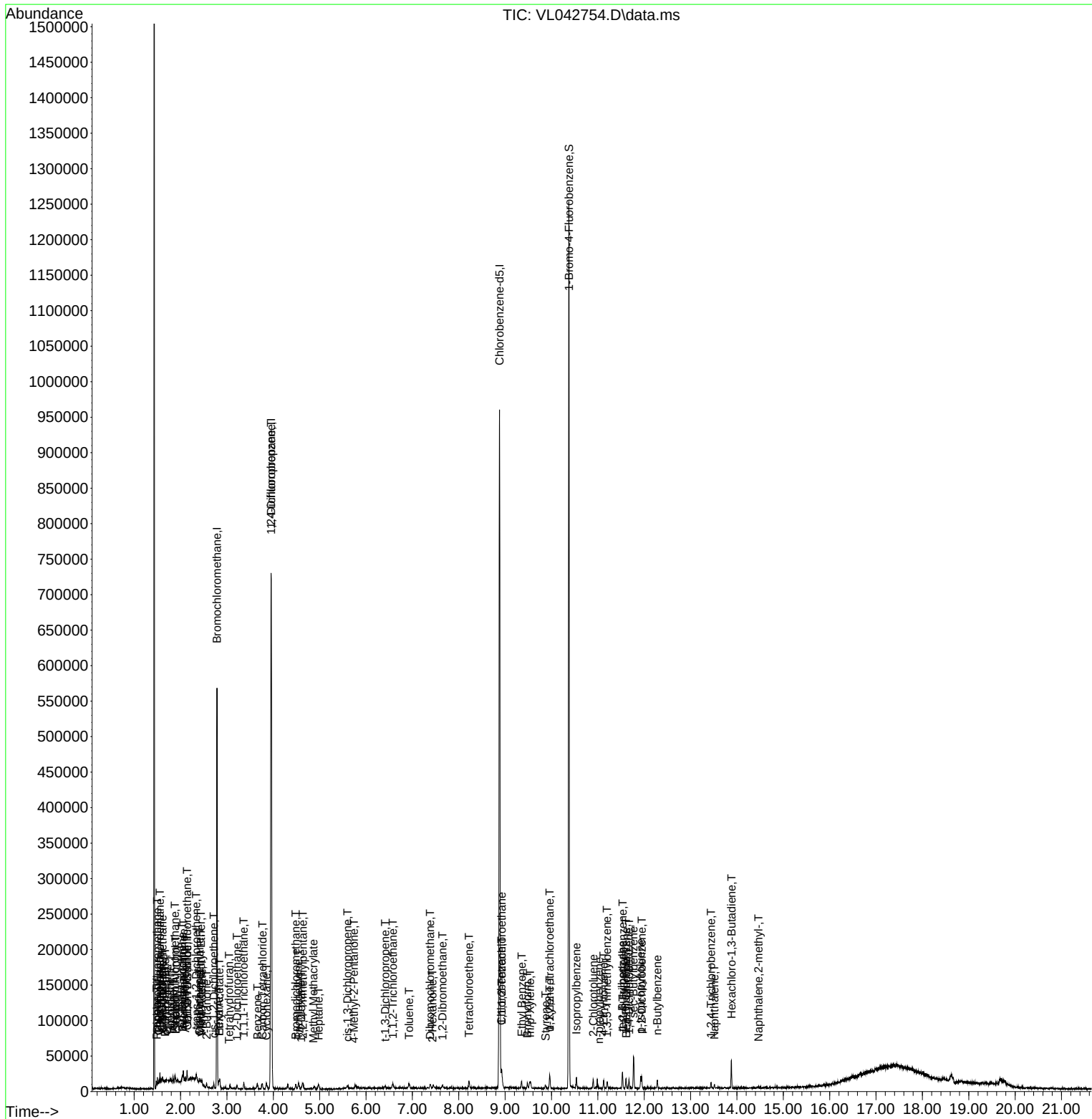
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 ClientSampleId :
 VSTDIC0.1

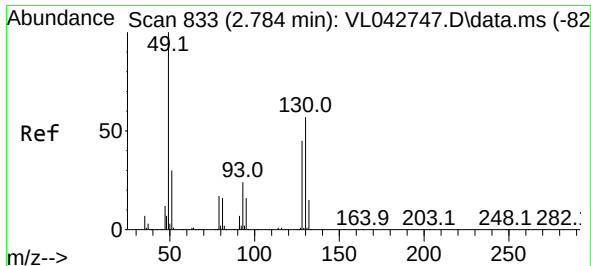
Quant Time: Jul 24 05:01:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	1232	0.059	ppbv	# 42
47) 1,1,2-Trichloroethane	6.577	97	787	0.048	ppbv	# 55
48) Dibromochloromethane	7.380	129	1591	0.061	ppbv	# 21
49) Bromoform	9.477	173	1201	0.053	ppbv	# 29
50) 4-Methyl-2-Pentanone	5.739	43	126	0.003	ppbv	# 40
51) 2-Hexanone	7.435	43	436	0.014	ppbv	# 30
52) Tetrachloroethene	8.222	164	981	0.057	ppbv	# 62
53) Toluene	6.930	91	1198	0.027	ppbv	# 1
54) 1,2-Dibromoethane	7.649	107	1080	0.047	ppbv	# 52
56) 1,1,1,2-Tetrachloroethane	8.927	131	922	0.045	ppbv	# 1
57) Chlorobenzene	8.921	112	4337	0.114	ppbv	# 88
58) Ethyl Benzene	9.358	91	2183	0.035	ppbv	100
59) m/p-Xylene	9.539	91	5405	0.109	ppbv	# 60
60) o-Xylene	9.963	91	2101	0.042	ppbv	# 53
61) Styrene	9.872	104	807	0.039	ppbv	# 29
62) Isopropylbenzene	10.536	105	5985	0.082	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.963	83	1989	0.062	ppbv	# 49
64) n-propylbenzene	11.025	120	48	0.003	ppbv	74
65) tert-Butylbenzene	11.523	119	4707	0.072	ppbv	91
66) Benzyl Chloride	11.614	91	204	0.038	ppbv	# 78
67) sec-Butylbenzene	11.766	105	6449	0.070	ppbv	# 90
69) p-Isopropyltoluene	11.924	119	5342	0.071	ppbv	93
70) n-Butylbenzene	12.284	91	4198	0.058	ppbv	94
71) 2-Chlorotoluene	10.905	91	4180	0.075	ppbv	77
72) 4-Ethyltoluene	11.125	105	3597	0.061	ppbv	# 82
73) 1,3,5-Trimethylbenzene	11.199	105	3603	0.074	ppbv	# 70
74) 1,2,4-Trimethylbenzene	11.536	105	3826	0.072	ppbv	# 90
75) 1,3-Dichlorobenzene	11.607	146	2417	0.065	ppbv	# 67
76) 1,4-Dichlorobenzene	11.672	146	3265	0.090	ppbv	95
77) 1,2-Dichlorobenzene	11.947	146	3354	0.092	ppbv	96
78) Hexachloro-1,3-Butadiene	13.883	225	4077	0.123	ppbv	97
79) Naphthalene	13.514	128	2509	0.475	ppbv	# 96
80) Naphthalene,2-methyl-	14.468	142	676	1.147	ppbv	# 70
81) 1,2,4-Trichlorobenzene	13.442	180	1396	0.475	ppbv	# 78

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

Quant Time: Jul 24 05:01:17 2025
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

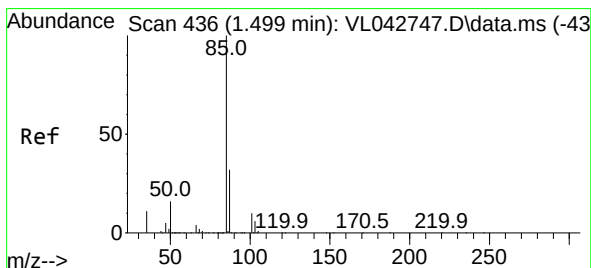
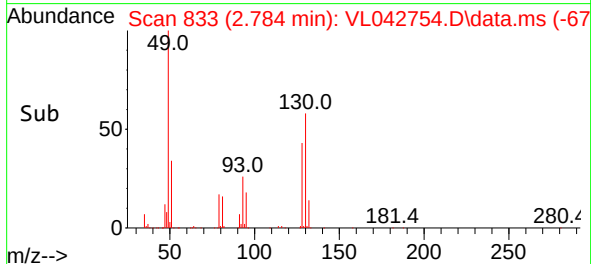
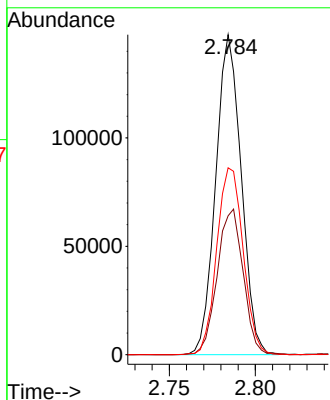
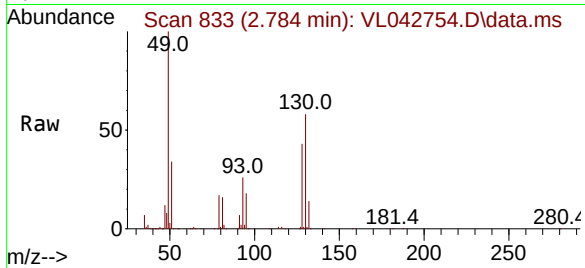




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 833
 Delta R.T. 0.000 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

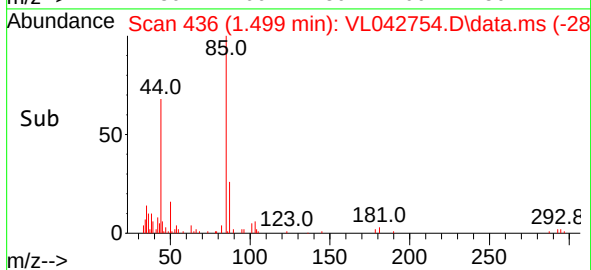
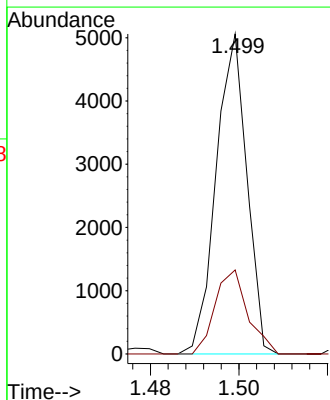
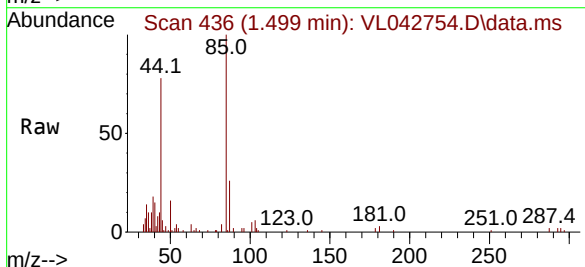
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

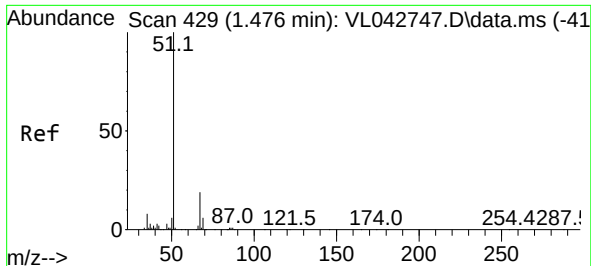
Tgt Ion: 49 Resp: 152358
 Ion Ratio Lower Upper
 49 100
 128 46.3 23.6 71.0
 130 60.6 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 0.121 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

Tgt Ion: 85 Resp: 2439
 Ion Ratio Lower Upper
 85 100
 87 26.3 25.4 38.2

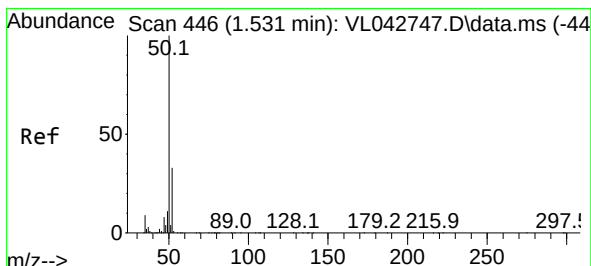
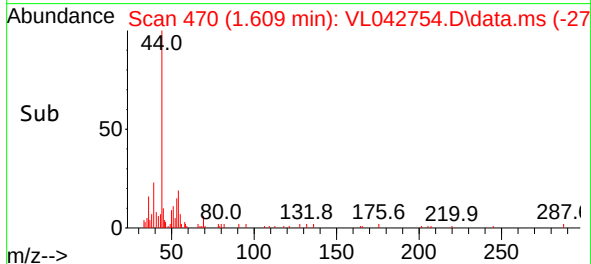
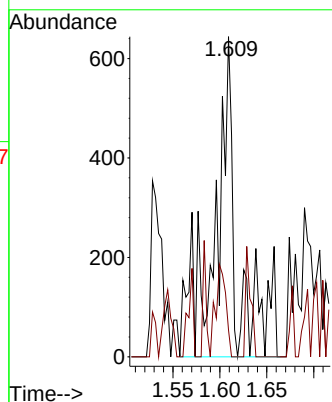
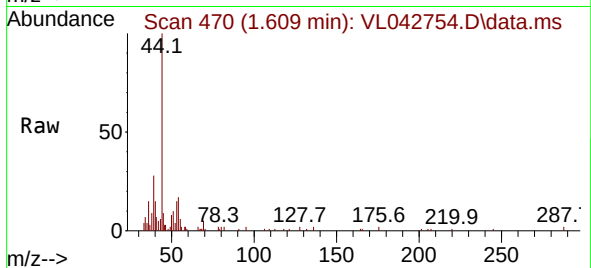




#3
Chlorodifluoromethane
Concen: 0.040 ppbv
RT: 1.609 min Scan# 41
Delta R.T. 0.133 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

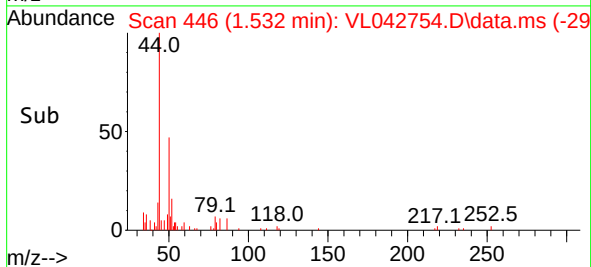
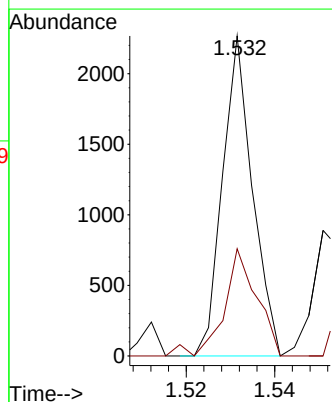
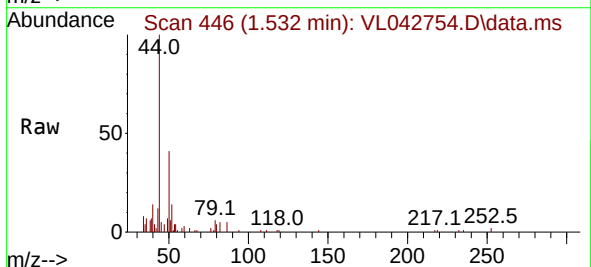
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

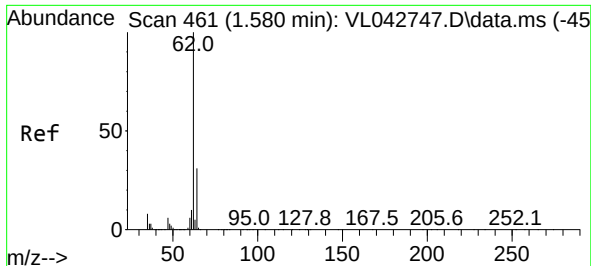
Tgt Ion: 51 Resp: 1060
Ion Ratio Lower Upper
51 100
67 18.5 15.0 22.6



#4
Chloromethane
Concen: 0.131 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 50 Resp: 1066
Ion Ratio Lower Upper
50 100
52 34.0 26.6 40.0

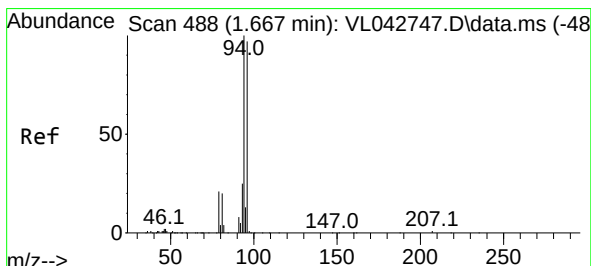
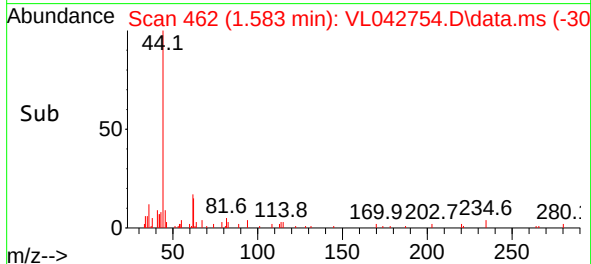
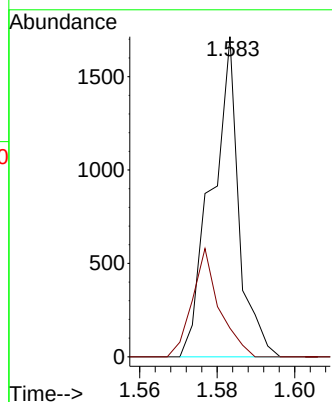
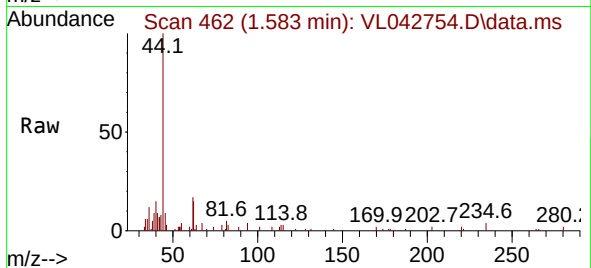




#5
Vinyl Chloride
Concen: 0.104 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

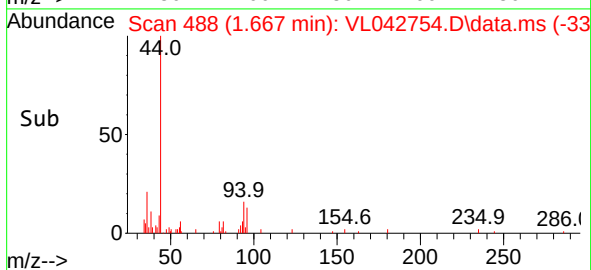
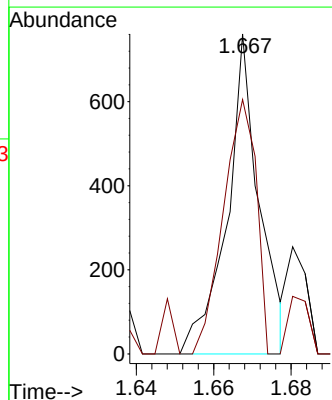
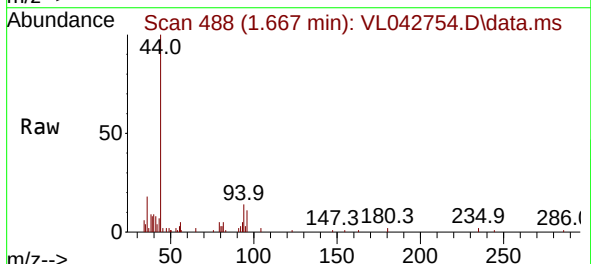
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

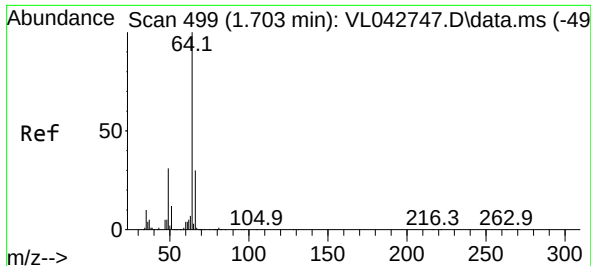
Tgt Ion: 62 Resp: 837
Ion Ratio Lower Upper
62 100
64 8.9 24.5 36.7#



#6
Bromomethane
Concen: 0.141 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 94 Resp: 438
Ion Ratio Lower Upper
94 100
96 79.5 77.6 116.4

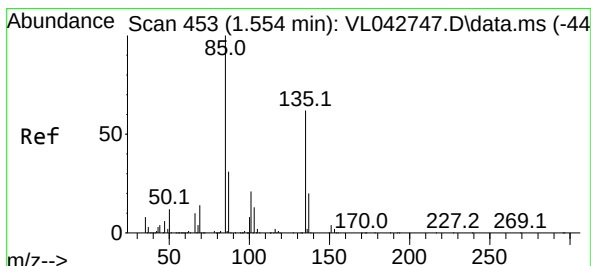
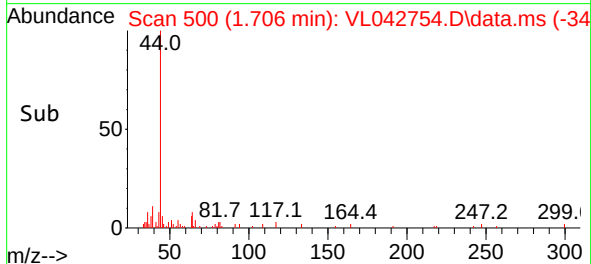
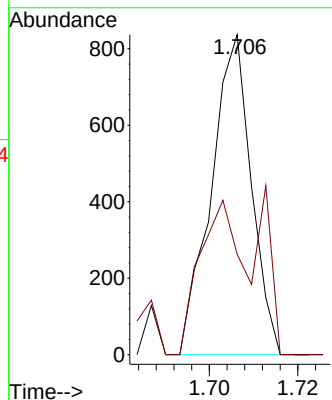
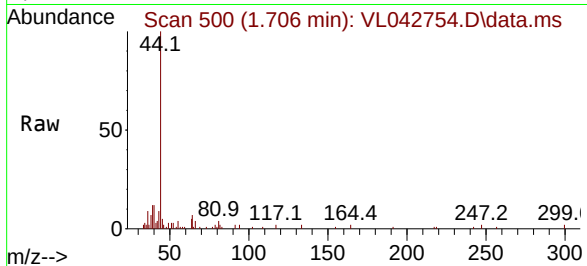




#7
Chloroethane
Concen: 0.169 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

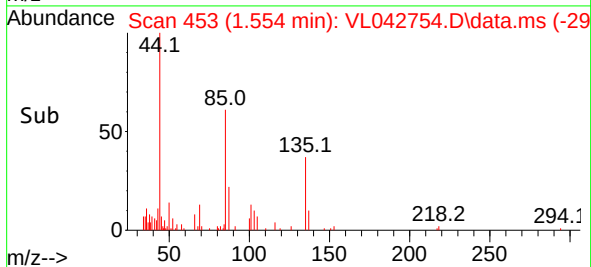
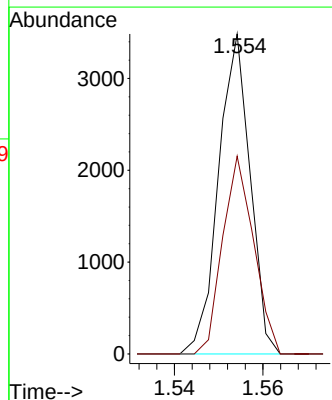
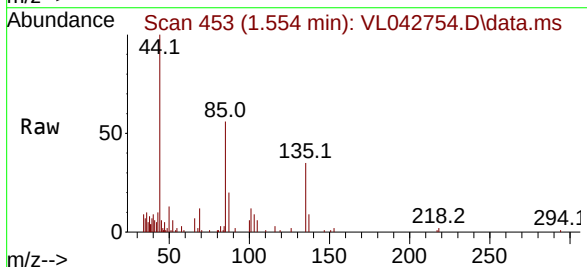
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

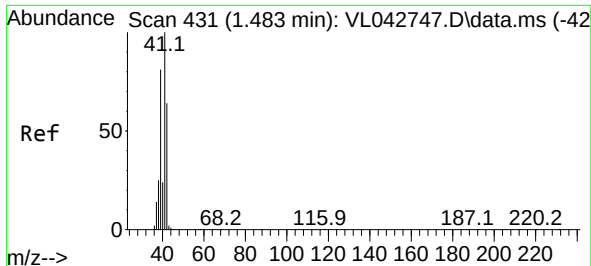
Tgt Ion: 64 Resp: 526
Ion Ratio Lower Upper
64 100
66 31.4 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 0.104 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 85 Resp: 1725
Ion Ratio Lower Upper
85 100
135 61.0 50.6 76.0





#9

Propene

Concen: 0.117 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.004 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

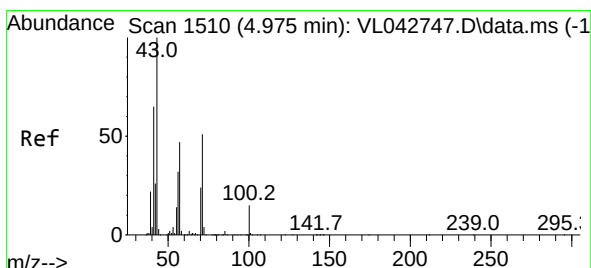
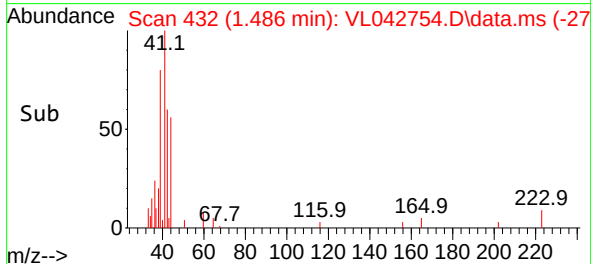
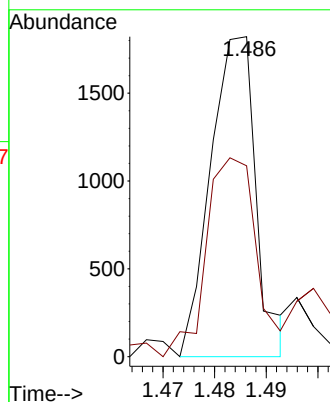
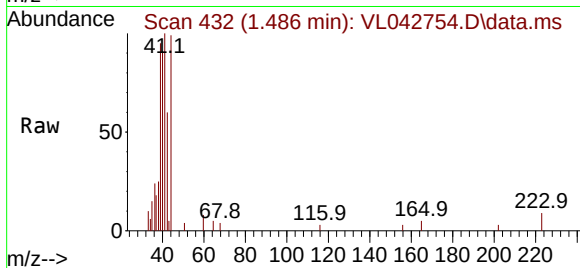
VSTDIC0.1

Tgt Ion: 41 Resp: 1118

Ion Ratio Lower Upper

41 100

42 92.3 53.2 79.8#



#10

Heptane

Concen: 0.032 ppbv

RT: 4.975 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VL042754.D

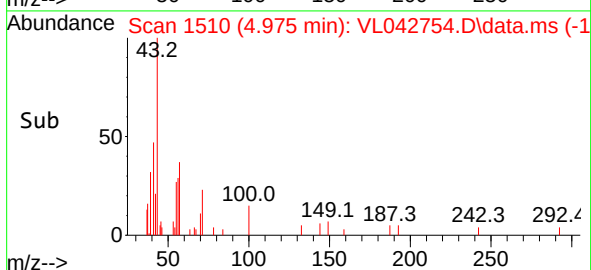
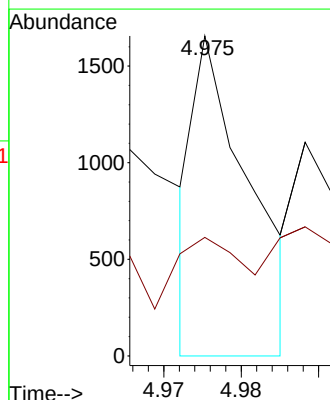
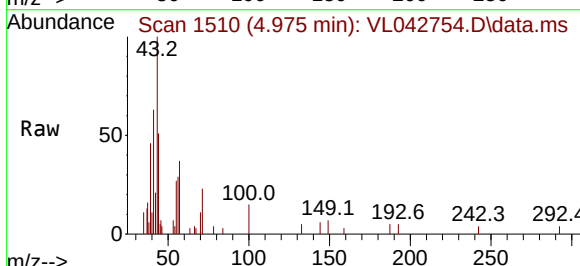
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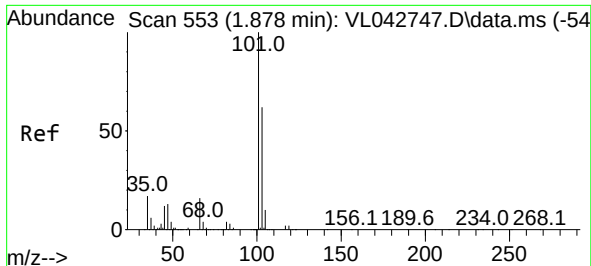
Tgt Ion: 43 Resp: 817

Ion Ratio Lower Upper

43 100

57 0.0 39.9 59.9#

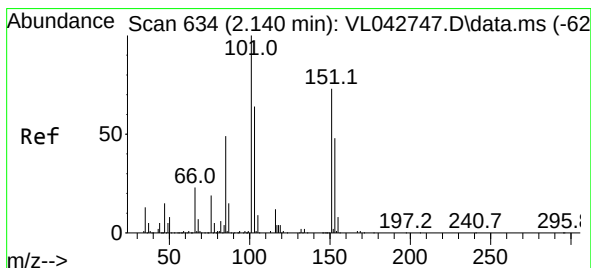
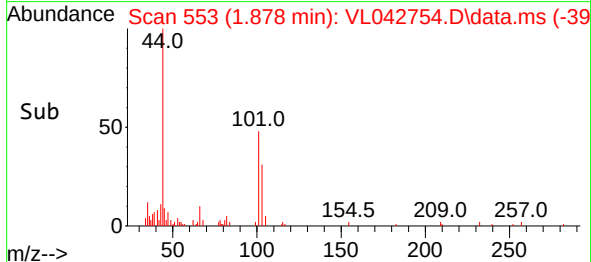
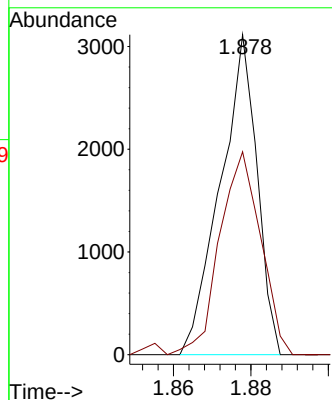
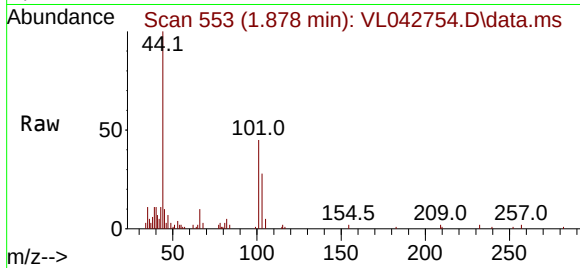




#11
 Trichlorofluoromethane
 Concen: 0.099 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

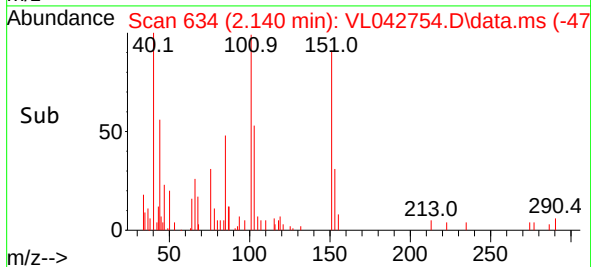
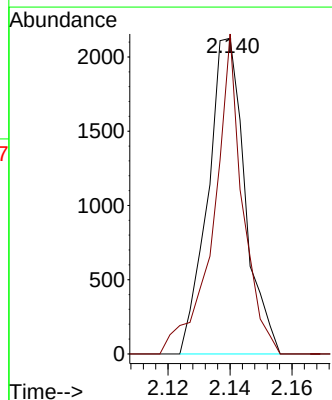
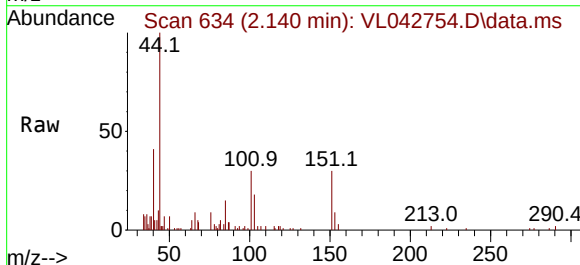
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 ClientSampleId :
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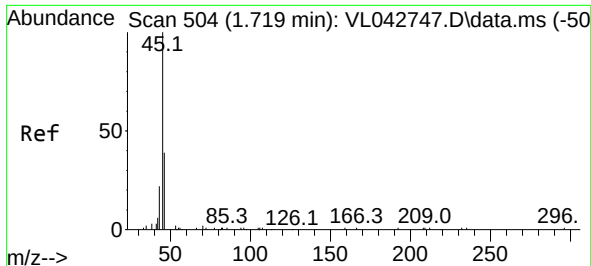
Tgt Ion:101 Resp: 2050
 Ion Ratio Lower Upper
 101 100
 103 61.8 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.112 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.000 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

Tgt Ion:101 Resp: 1772
 Ion Ratio Lower Upper
 101 100
 151 79.0 60.5 90.7

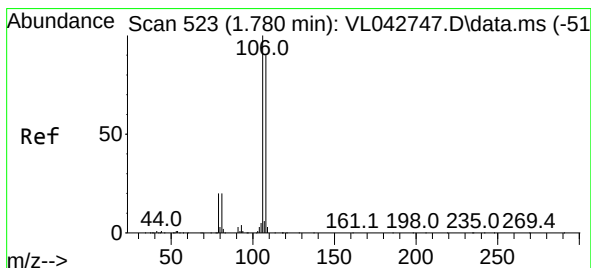
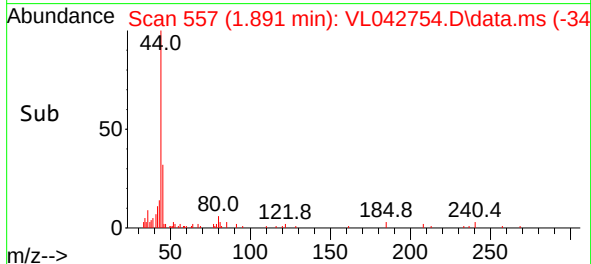
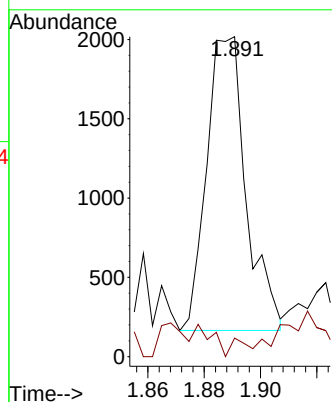
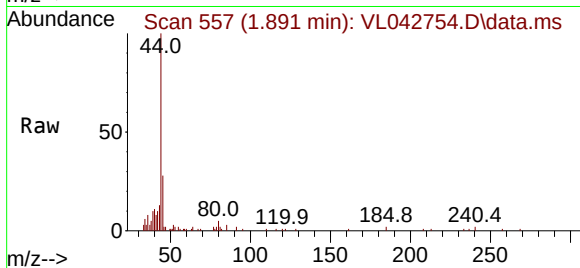




#13
Ethanol
Concen: 1.545 ppbv
RT: 1.891 min Scan# 511
Delta R.T. 0.172 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

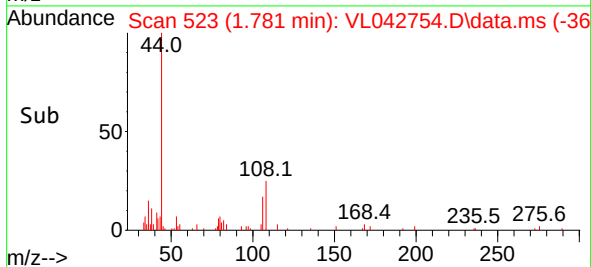
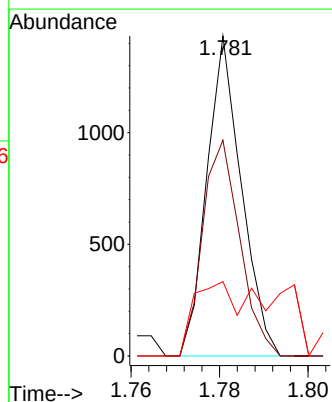
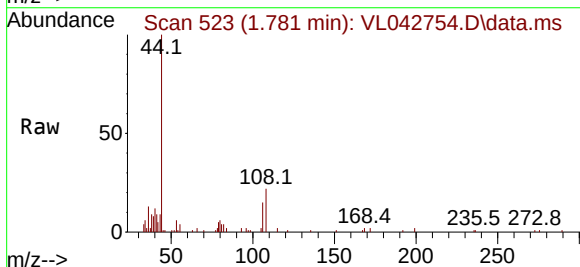
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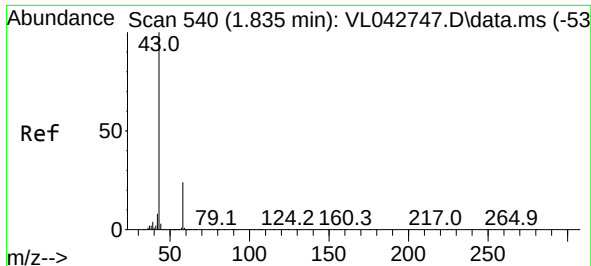
Tgt Ion: 45 Resp: 1804
Ion Ratio Lower Upper
45 100
46 27.4 17.8 71.4



#14
Bromoethene
Concen: 0.139 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 108 Resp: 778
Ion Ratio Lower Upper
108 100
106 72.5 84.7 127.1#
79 74.6 17.4 26.2#

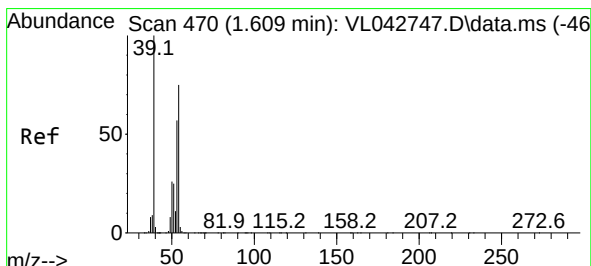
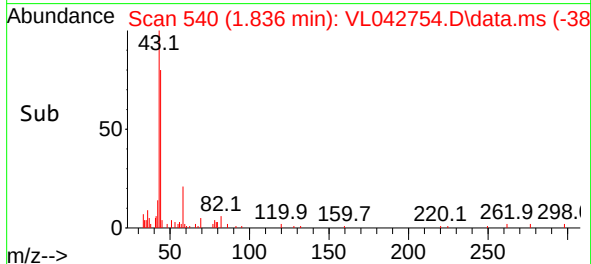
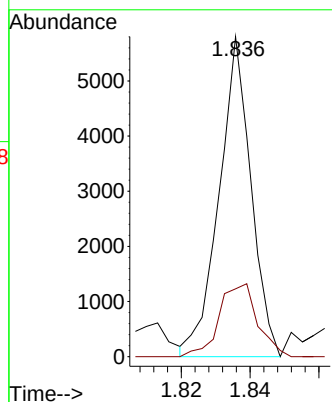
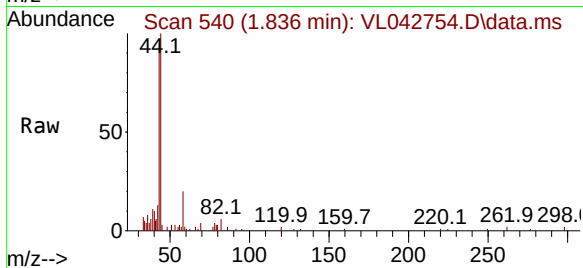




#15
Acetone
Concen: 0.177 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

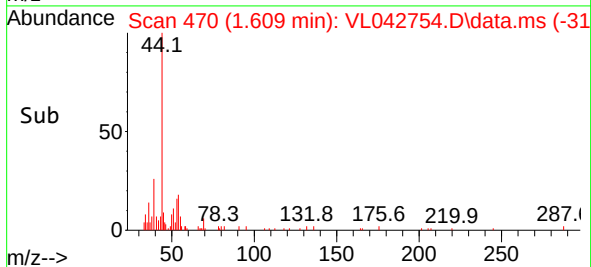
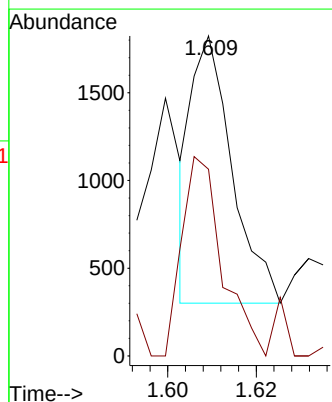
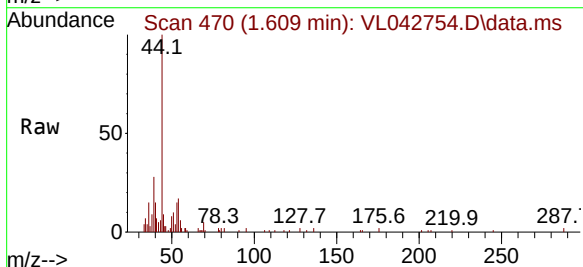
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ClientSampleId :
VSTDIC0.1

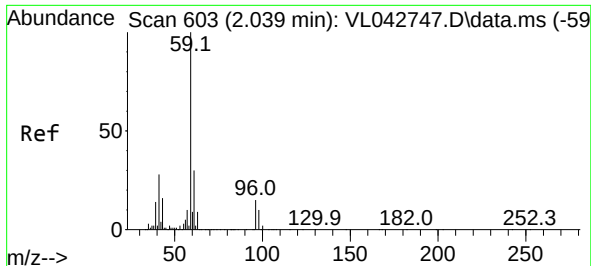
Tgt Ion: 43 Resp: 3734
Ion Ratio Lower Upper
43 100
58 27.4 19.8 29.8



#16
1,3-Butadiene
Concen: 0.109 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 39 Resp: 976
Ion Ratio Lower Upper
39 100
54 115.6 54.5 81.7#





#17

tert-Butyl alcohol

Concen: 0.116 ppbv

RT: 2.040 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

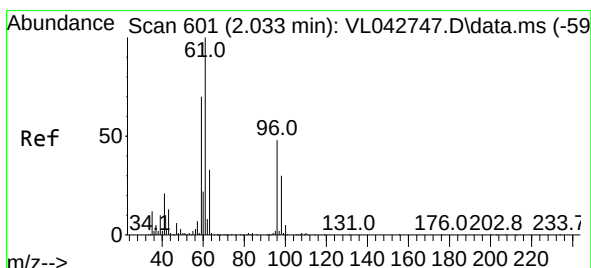
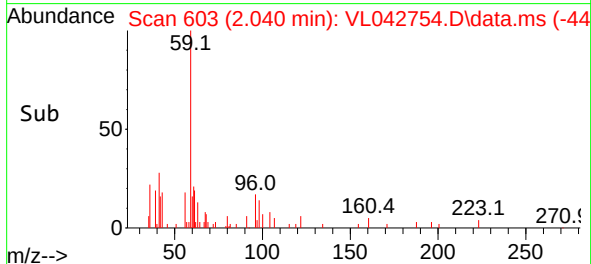
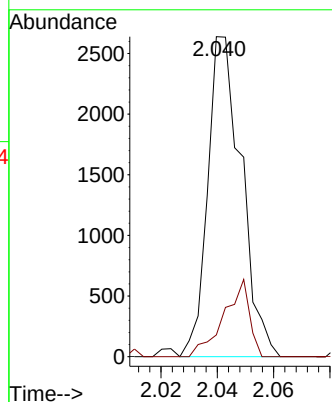
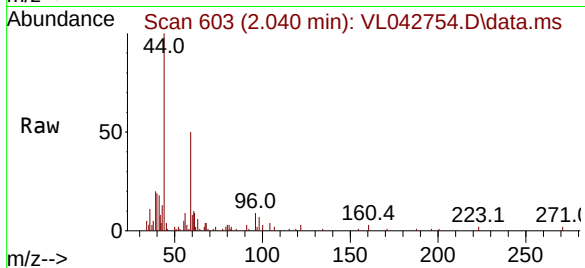
VSTDIC0.1

Tgt Ion: 59 Resp: 2194

Ion Ratio Lower Upper

59 100

57 18.3 8.3 12.5#



#18

1,1-Dichloroethene

Concen: 0.126 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.004 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

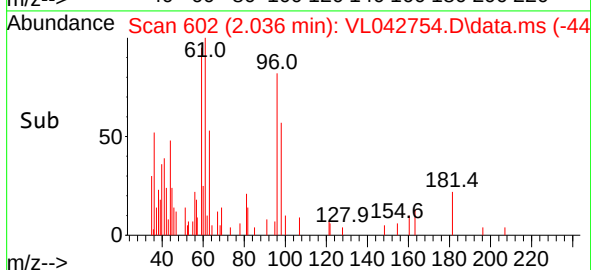
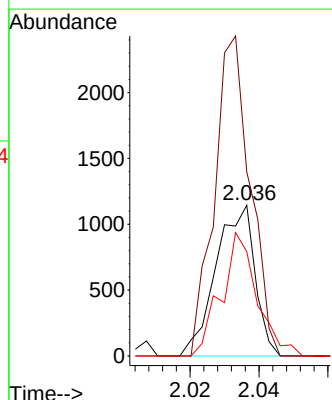
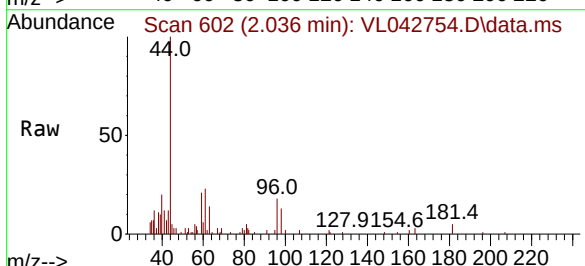
Tgt Ion: 96 Resp: 899

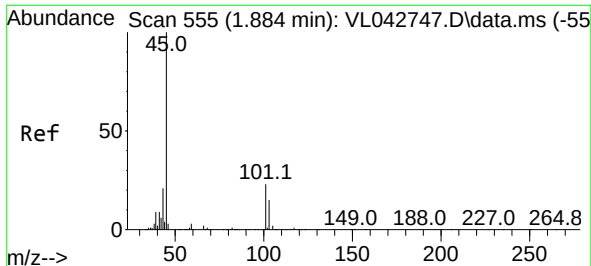
Ion Ratio Lower Upper

96 100

61 122.3 165.8 248.6#

98 69.2 49.9 74.9

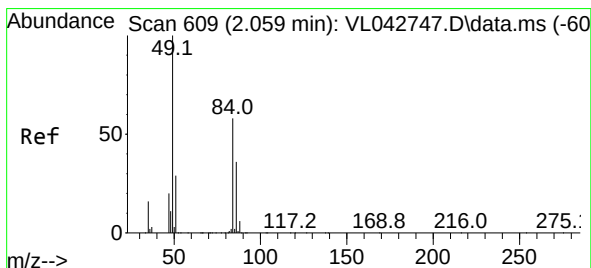
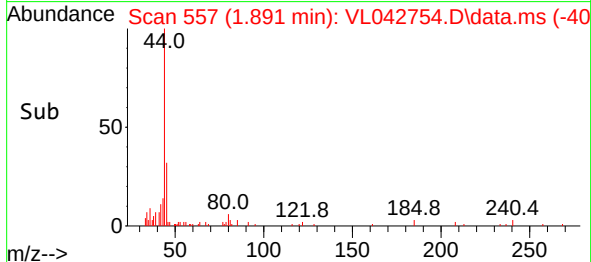
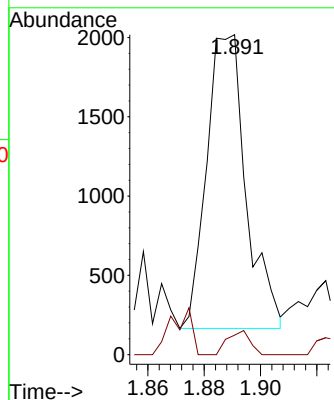
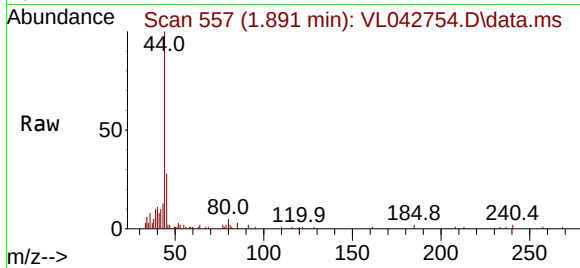




#19
Isopropyl Alcohol
Concen: 0.161 ppbv
RT: 1.891 min Scan# 511
Delta R.T. 0.007 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

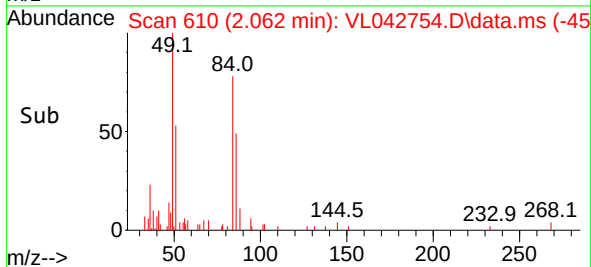
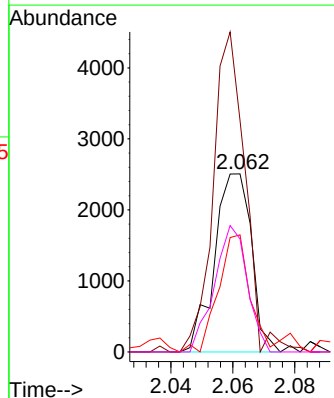
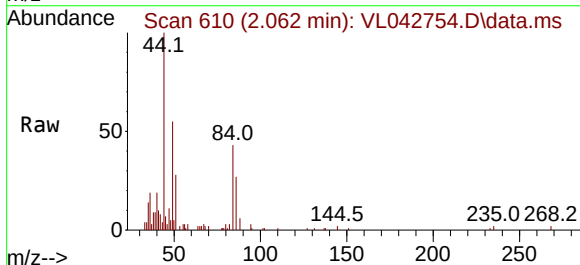
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

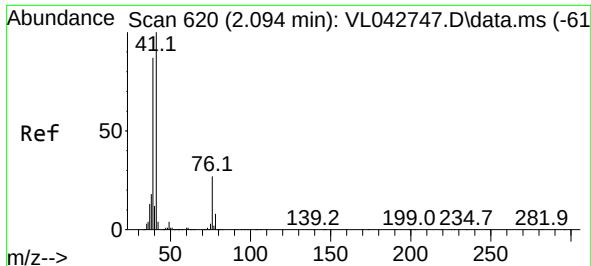
Tgt Ion: 45 Resp: 1804
Ion Ratio Lower Upper
45 100
58 13.0 30.0 45.0#



#20
Methylene Chloride
Concen: 0.314 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 84 Resp: 2080
Ion Ratio Lower Upper
84 100
49 129.9 138.6 208.0#
51 65.8 40.6 61.0#
86 63.4 49.8 74.8

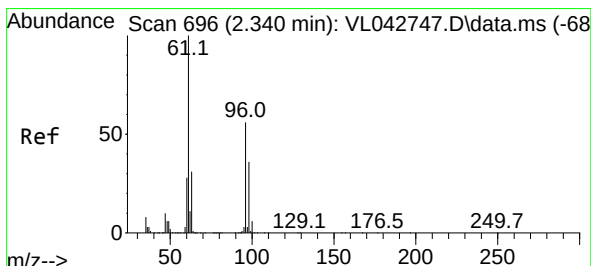
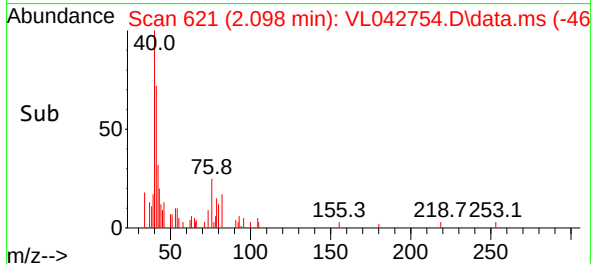
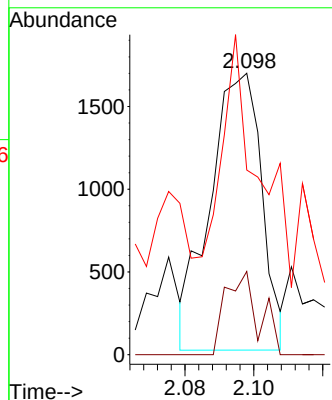
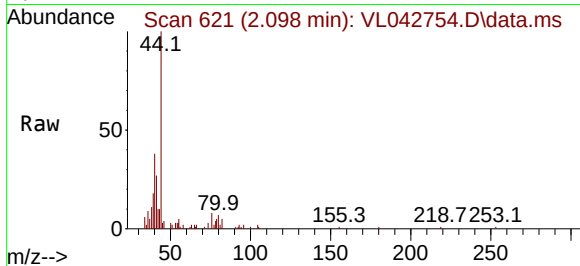




#21
 Allyl Chloride
 Concen: 0.135 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.004 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

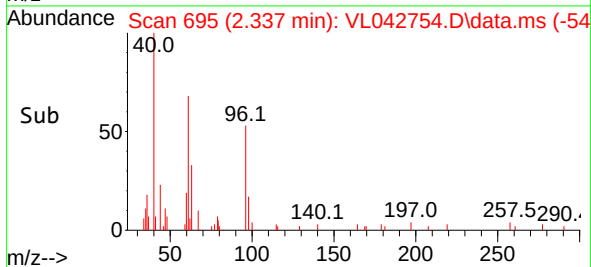
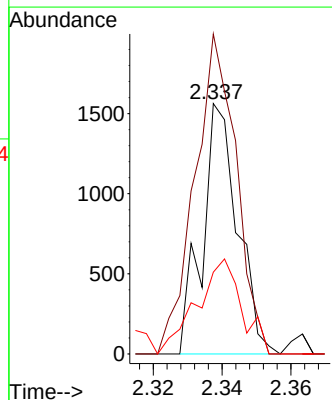
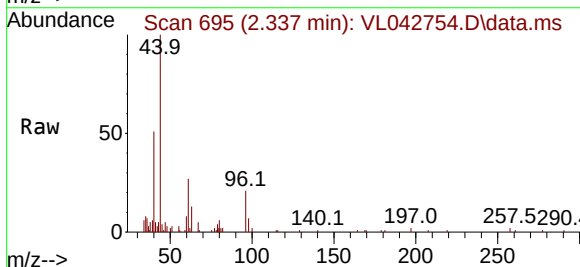
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

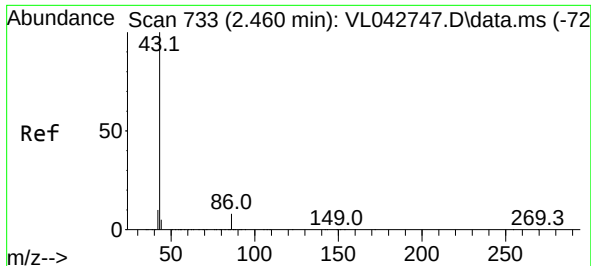
Tgt Ion: 41 Resp: 1747
 Ion Ratio Lower Upper
 41 100
 76 19.1 21.1 31.7#
 39 136.5 68.3 102.5#



#22
 trans-1,2-Dichloroethene
 Concen: 0.146 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

Tgt Ion: 96 Resp: 1116
 Ion Ratio Lower Upper
 96 100
 61 127.8 142.3 213.5#
 98 32.6 50.6 76.0#

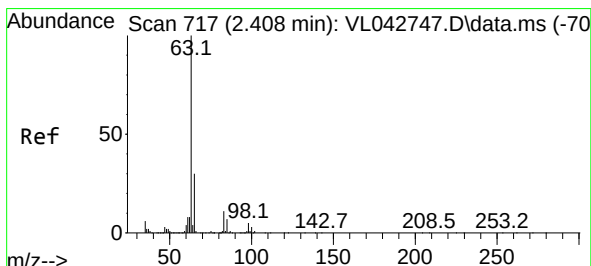
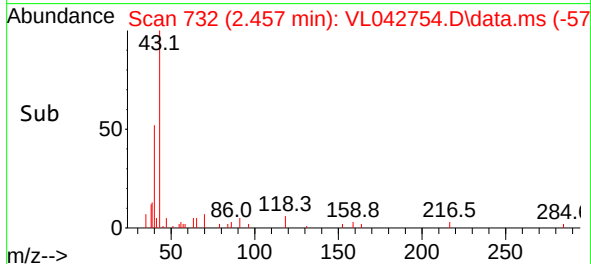
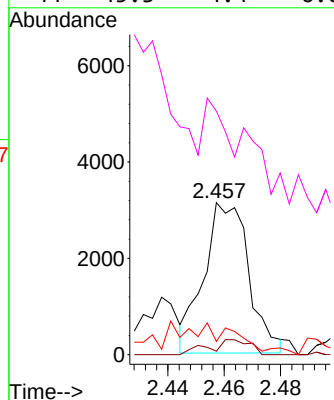
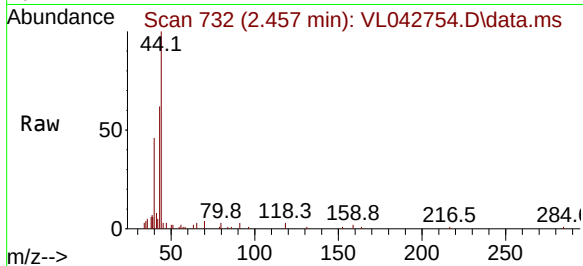




#23
 Vinyl Acetate
 Concen: 0.136 ppbv
 RT: 2.457 min Scan# 717
 Delta R.T. -0.003 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

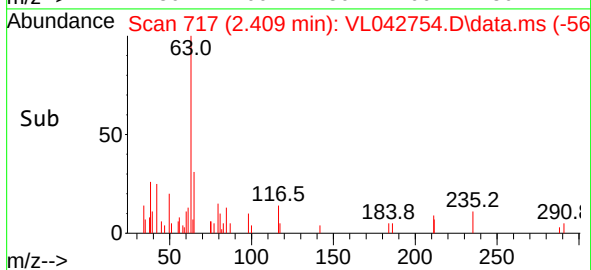
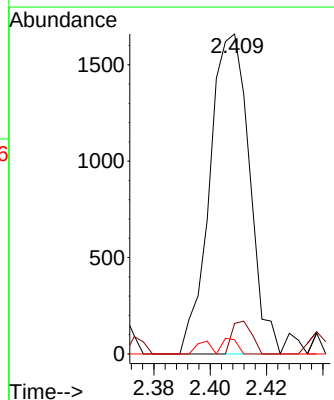
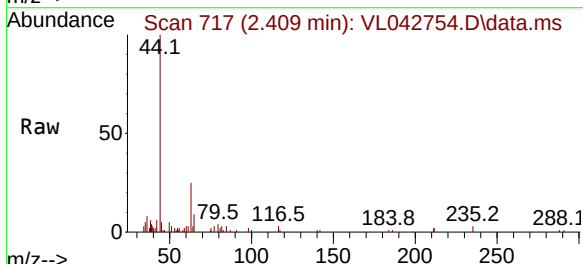
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

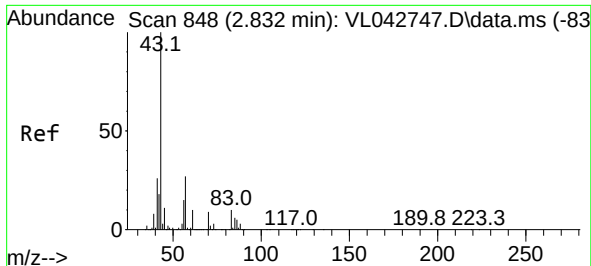
Tgt Ion:	43	Resp:	3460
Ion	Ratio	Lower	Upper
43	100		
86	2.5	6.1	9.1#
42	4.8	7.8	11.8#
44	45.3	4.4	6.6#



#24
 1,1-Dichloroethane
 Concen: 0.103 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

Tgt Ion:	63	Resp:	1620
Ion	Ratio	Lower	Upper
63	100		
98	9.5	2.5	7.4#
100	4.4	1.6	4.8





#25

Ethyl Acetate

Concen: 0.039 ppbv

RT: 2.833 min Scan# 84

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.1

Tgt Ion: 43 Resp: 1813

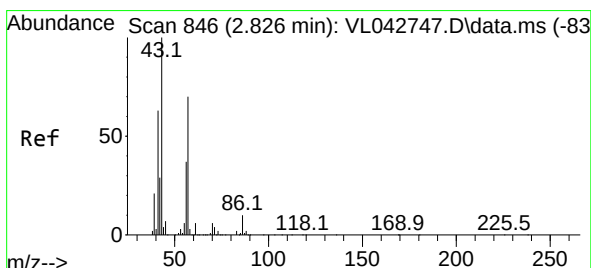
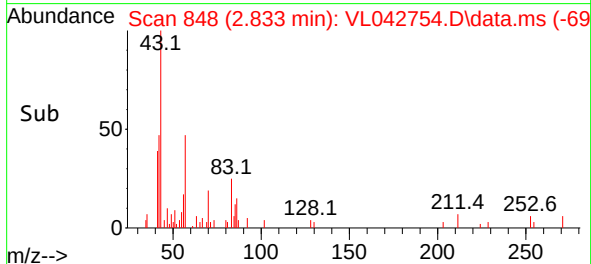
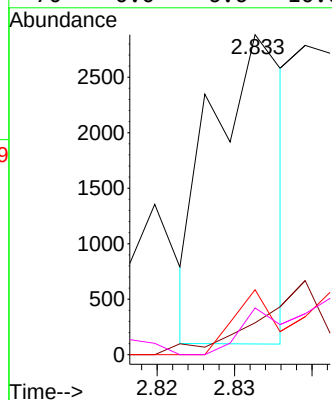
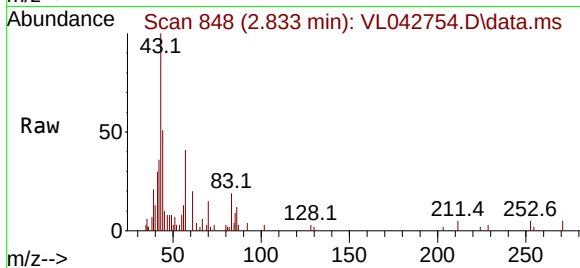
Ion Ratio Lower Upper

43 100

45 0.0 7.8 11.6#

61 26.6 6.7 10.1#

70 0.0 6.6 10.0#



#26

Hexane

Concen: 0.097 ppbv

RT: 2.823 min Scan# 845

Delta R.T. -0.003 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Tgt Ion: 57 Resp: 1982

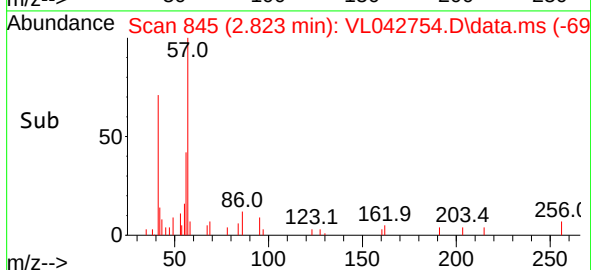
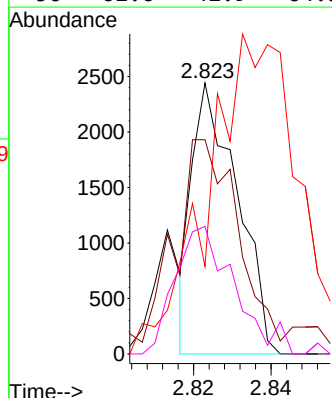
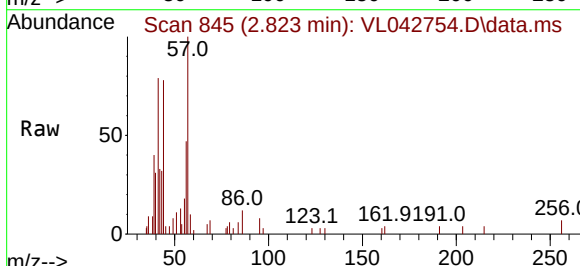
Ion Ratio Lower Upper

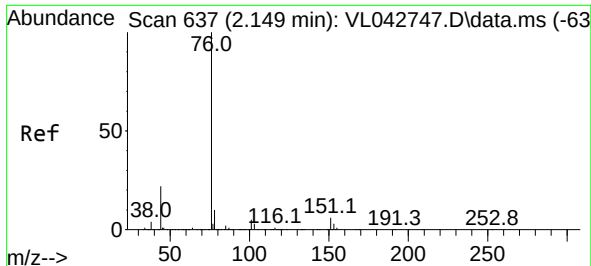
57 100

41 149.4 75.4 113.2#

43 252.9 185.0 277.6

56 62.6 42.9 64.3

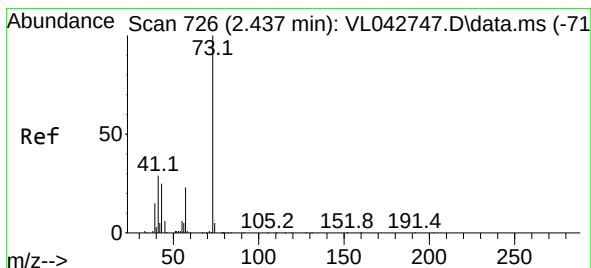
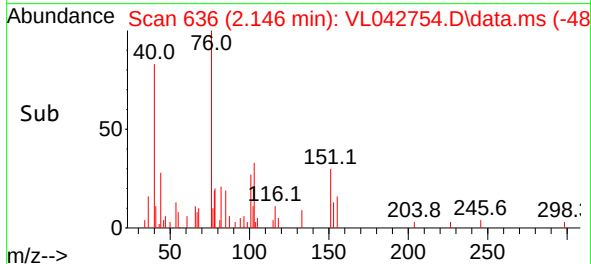
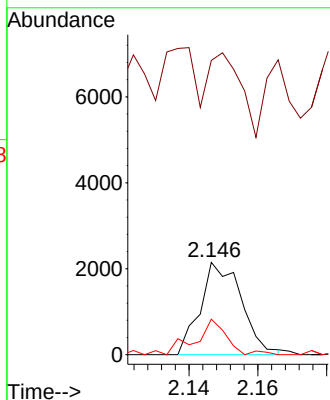
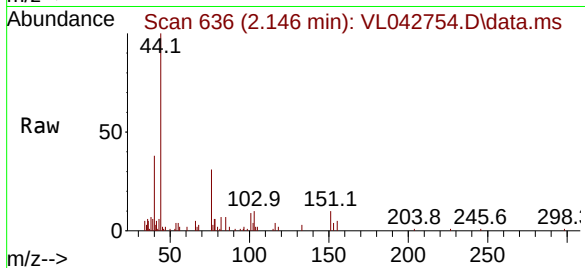




#27
Carbon Disulfide
Concen: 0.102 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

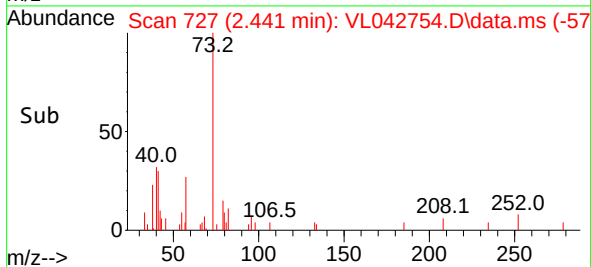
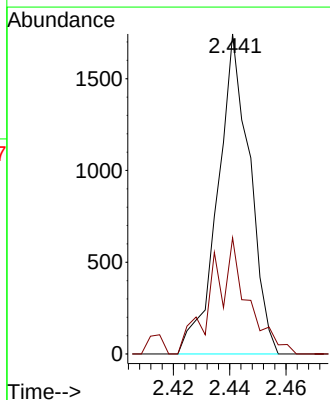
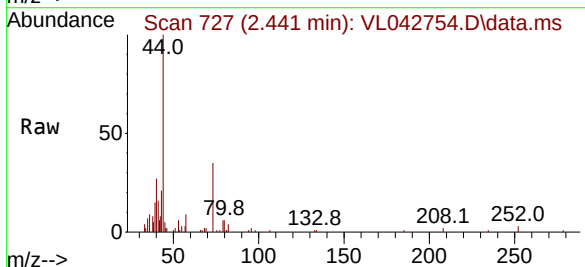
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

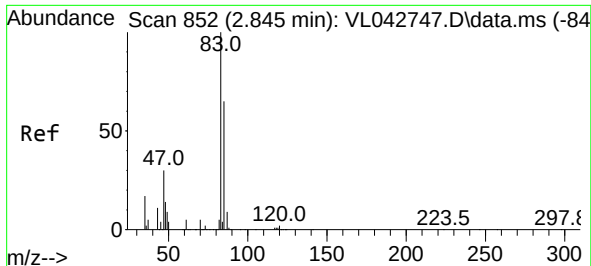
Tgt Ion: 76 Resp: 1789
Ion Ratio Lower Upper
76 100
44 606.9 19.3 28.9#
78 30.9 9.9 14.9#



#28
Methyl tert-Butyl Ether
Concen: 0.143 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 73 Resp: 1378
Ion Ratio Lower Upper
73 100
57 44.8 19.8 29.8#





#29

Chloroform

Concen: 0.003 ppbv

RT: 2.412 min Scan# 71

Delta R.T. -0.433 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

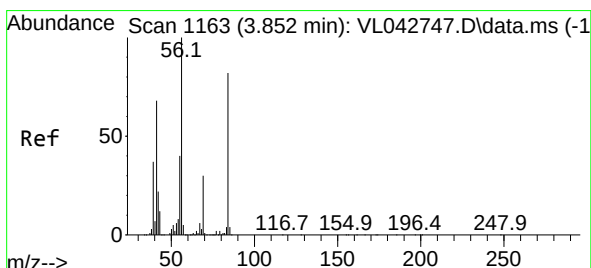
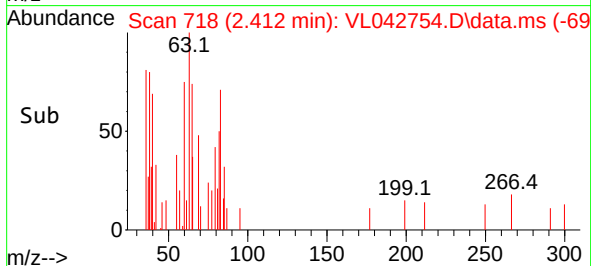
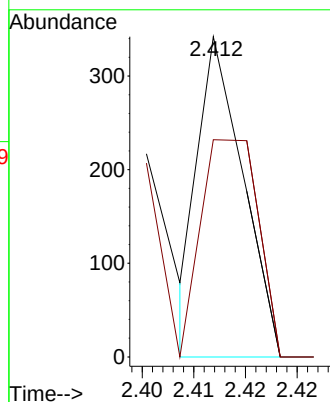
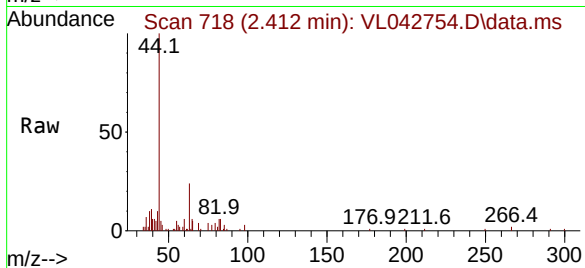
VSTDIC0.1

Tgt Ion: 83 Resp: 101

Ion Ratio Lower Upper

83 100

85 67.8 52.2 78.2



#30

Cyclohexane

Concen: 0.030 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

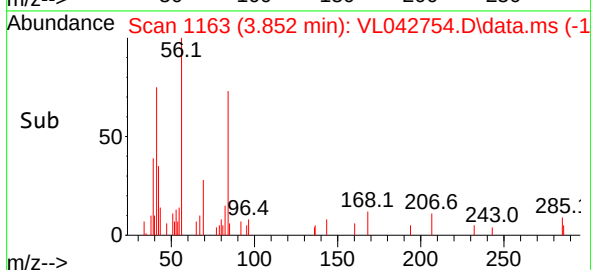
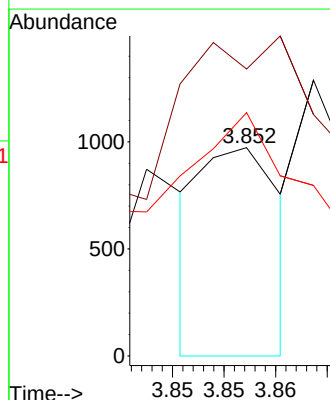
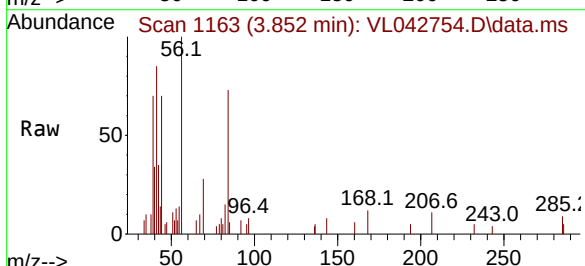
Tgt Ion: 84 Resp: 516

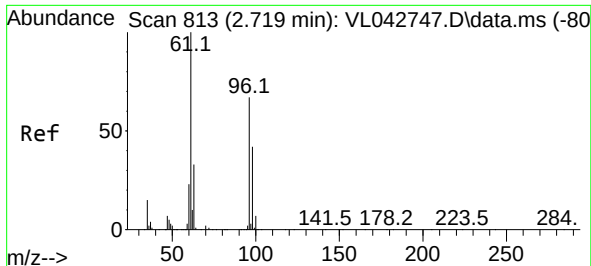
Ion Ratio Lower Upper

84 100

56 0.0 97.5 146.3#

41 369.4 67.2 100.8#

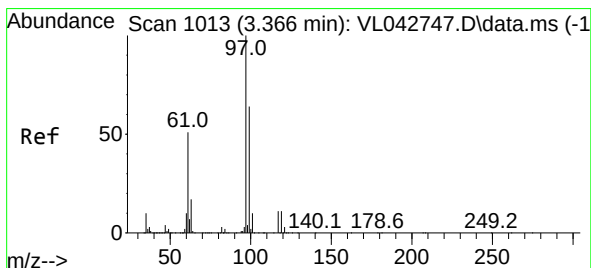
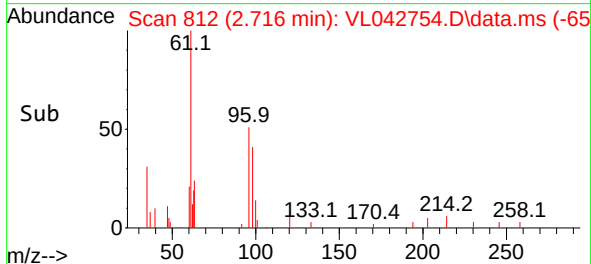
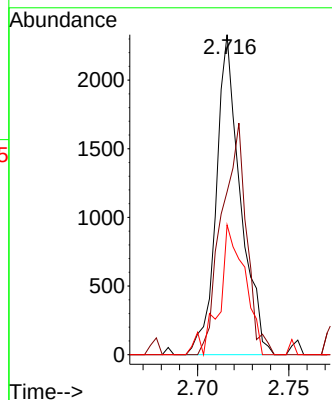
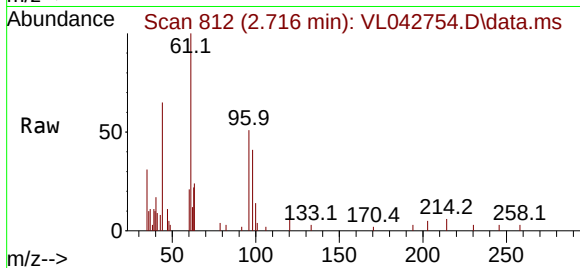




#31
 cis-1,2-Dichloroethene
 Concen: 0.103 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

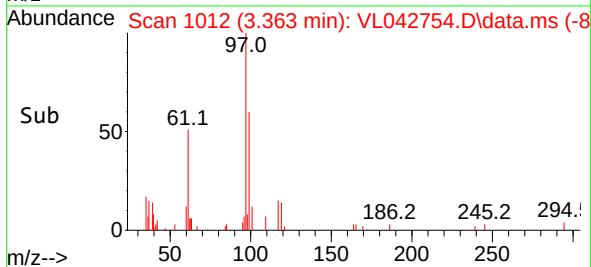
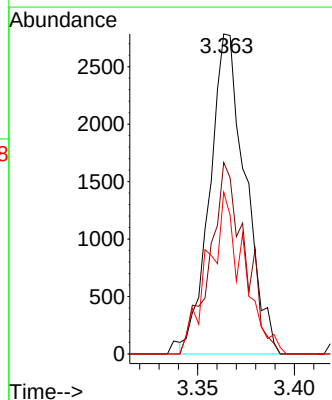
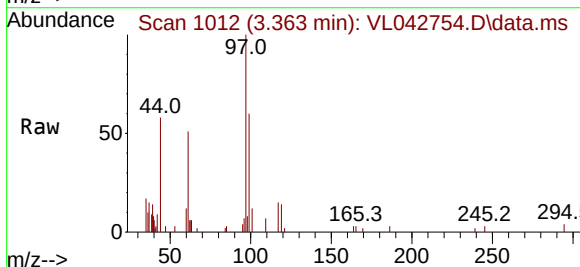
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

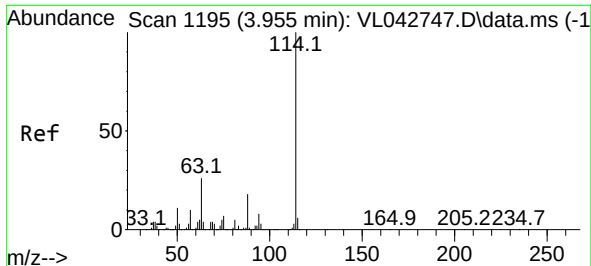
Tgt Ion: 61 Resp: 2152
 Ion Ratio Lower Upper
 61 100
 96 50.9 53.5 80.3#
 98 40.5 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 0.108 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

Tgt Ion: 97 Resp: 3550
 Ion Ratio Lower Upper
 97 100
 99 59.4 51.0 76.6
 61 50.4 40.9 61.3

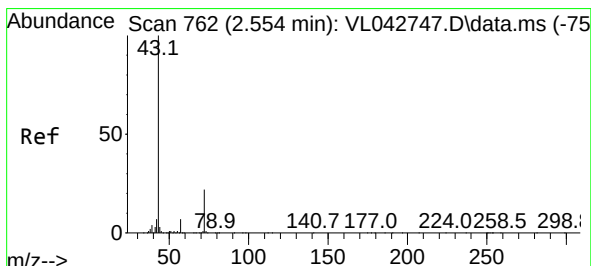
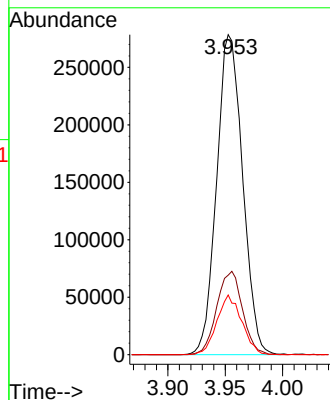
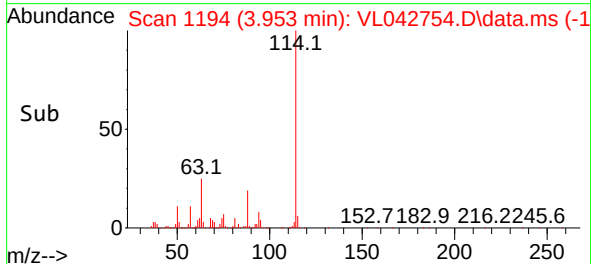
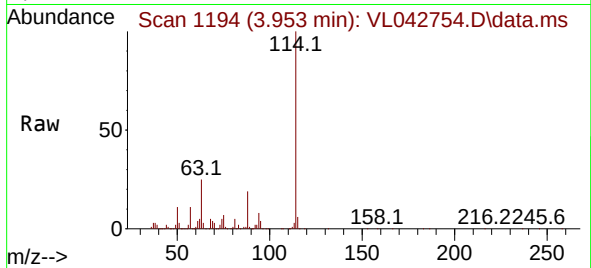




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.953 min Scan# 1194
 Delta R.T. -0.003 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

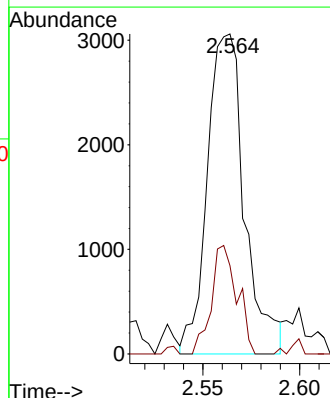
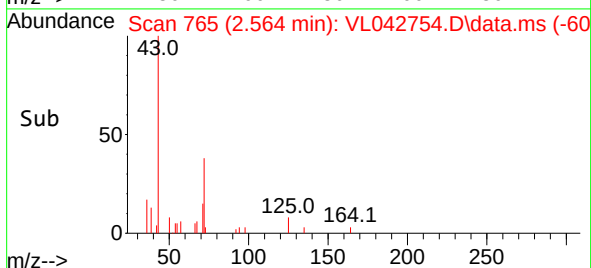
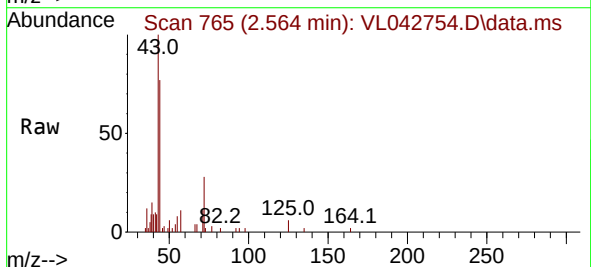
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

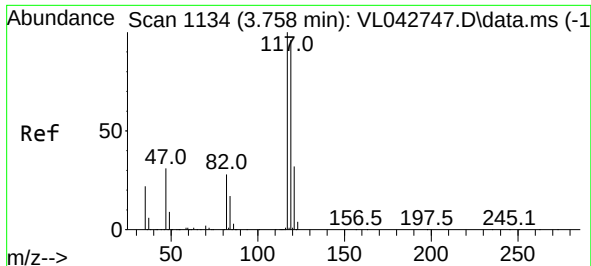
Tgt Ion:114 Resp: 438604
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.5 30.7
 88 17.8 14.0 21.0



#34
 2-Butanone
 Concen: 0.132 ppbv
 RT: 2.564 min Scan# 765
 Delta R.T. 0.010 min
 Lab File: VL042754.D
 Acq: 23 Jul 2025 13:00

Tgt Ion: 43 Resp: 4086
 Ion Ratio Lower Upper
 43 100
 72 24.2 17.4 26.0

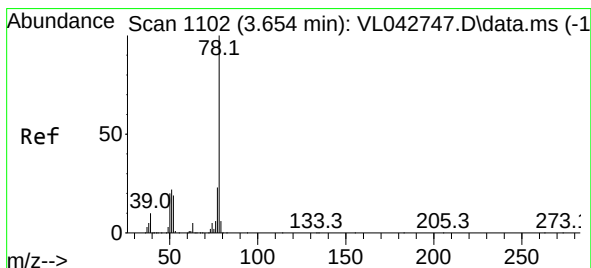
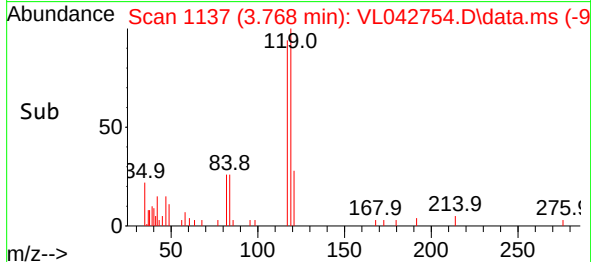
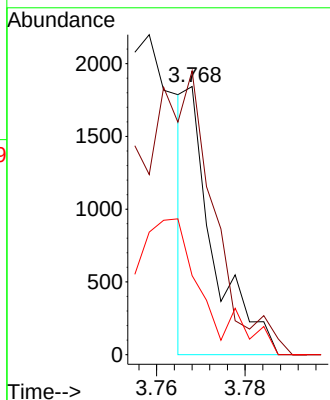
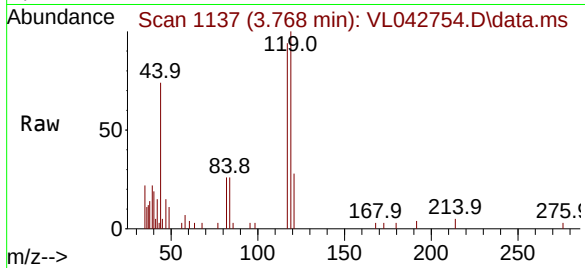




#35
Carbon Tetrachloride
Concen: 0.024 ppbv
RT: 3.768 min Scan# 1134
Delta R.T. 0.010 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

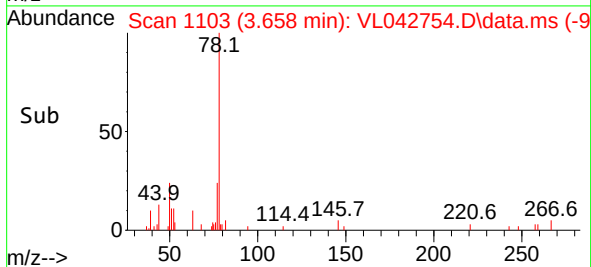
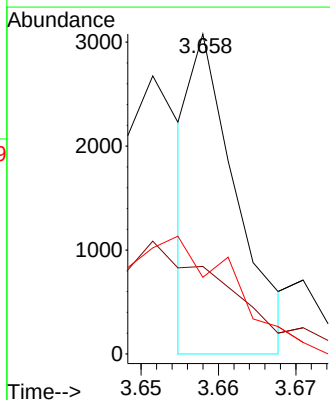
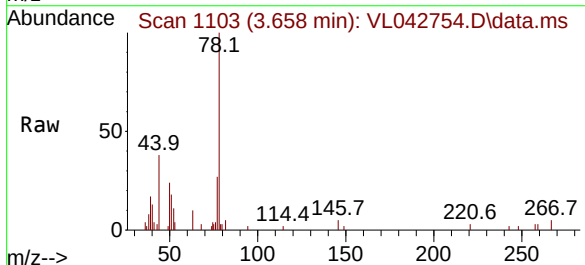
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

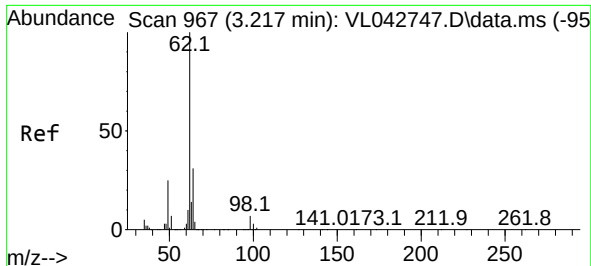
Tgt Ion:	117	Resp:	796
Ion	Ratio	Lower	Upper
117	100		
119	99.9	77.1	115.7
121	29.5	25.5	38.3



#36
Benzene
Concen: 0.030 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:	78	Resp:	1246
Ion	Ratio	Lower	Upper
78	100		
77	25.9	18.5	27.7
50	19.1	16.2	24.2





#37

1,2-Dichloroethane

Concen: 0.044 ppbv

RT: 3.218 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

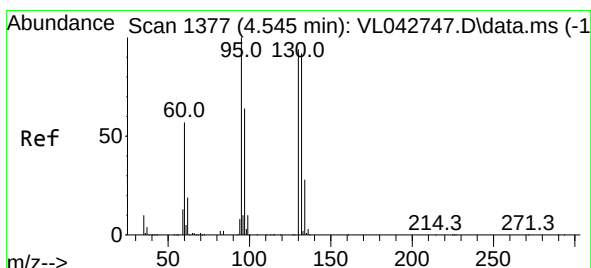
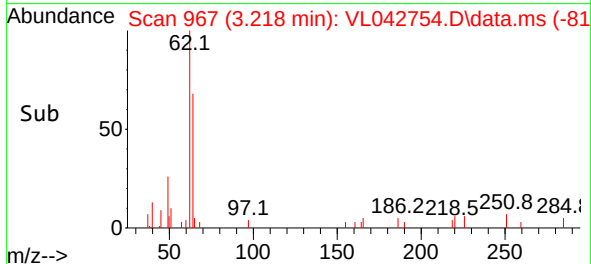
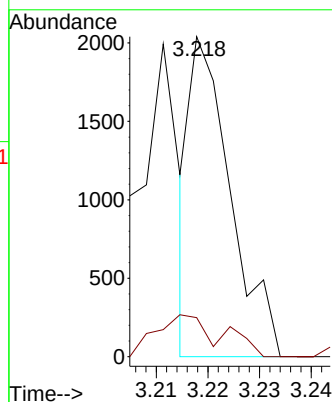
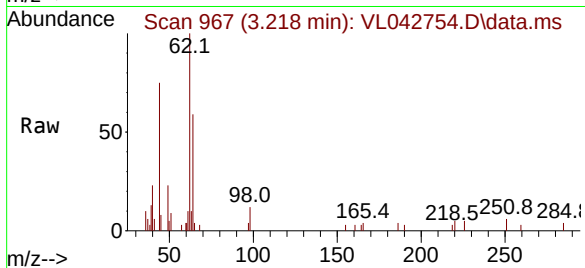
VSTDIC0.1

Tgt Ion: 62 Resp: 1114

Ion Ratio Lower Upper

62 100

98 21.1 5.2 7.8#



#38

Trichloroethene

Concen: 0.017 ppbv

RT: 4.538 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Tgt Ion:130 Resp: 333

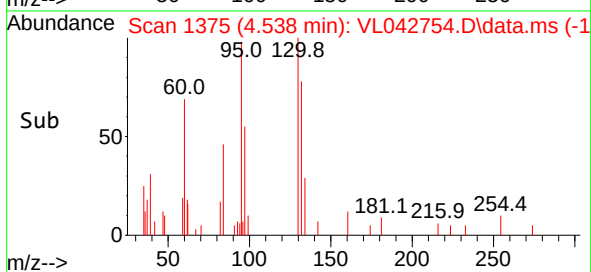
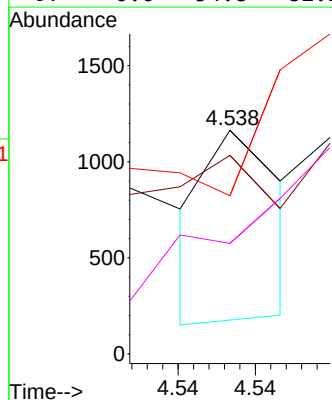
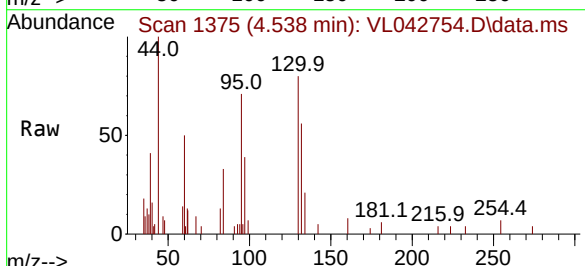
Ion Ratio Lower Upper

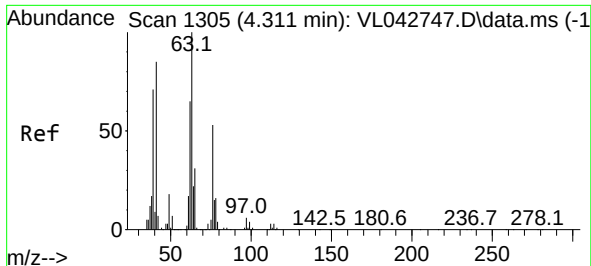
130 100

95 67.3 85.4 128.2#

132 0.0 78.2 117.2#

97 0.0 54.8 82.2#





#39

1,2-Dichloropropane

Concen: 7.376 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

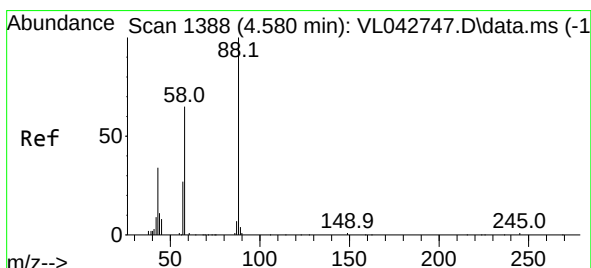
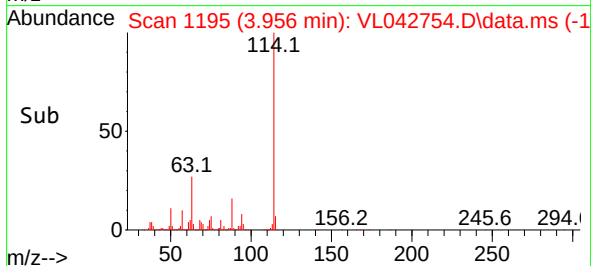
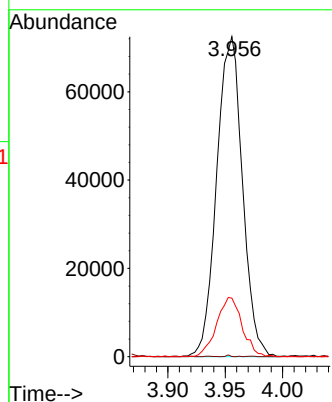
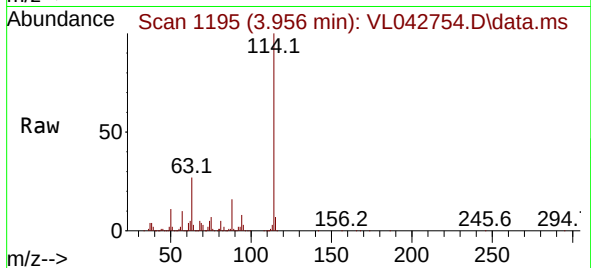
Tgt Ion: 63 Resp: 113176

Ion Ratio Lower Upper

63 100

41 0.1 68.2 102.4#

62 18.3 52.0 78.0#



#40

1,4-Dioxane

Concen: 0.041 ppbv

RT: 4.603 min Scan# 1395

Delta R.T. 0.023 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Tgt Ion: 88 Resp: 294

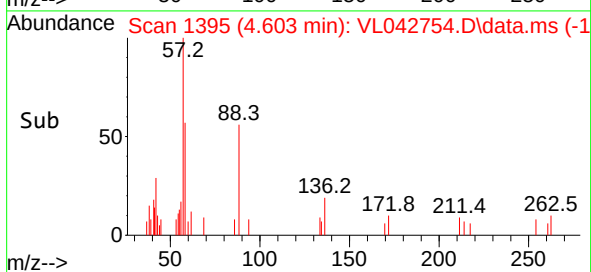
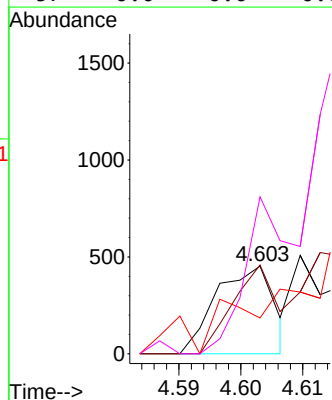
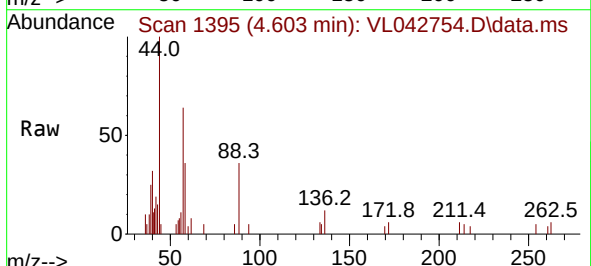
Ion Ratio Lower Upper

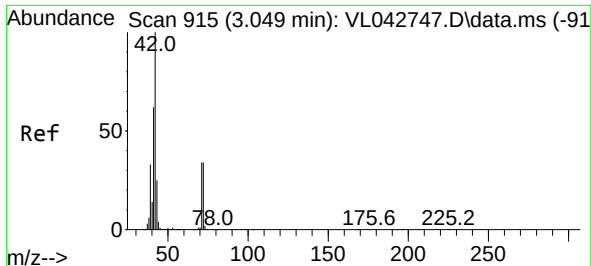
88 100

58 0.0 58.8 88.2#

43 31.0 28.9 43.3

57 0.0 0.0 0.0

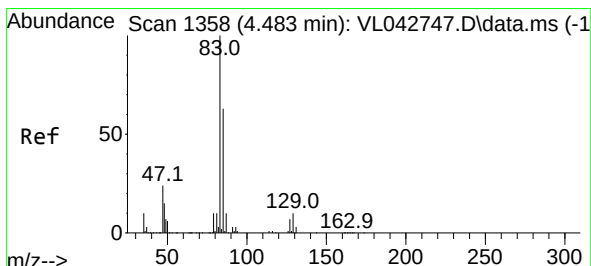
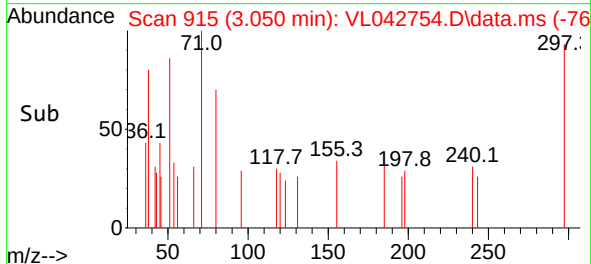
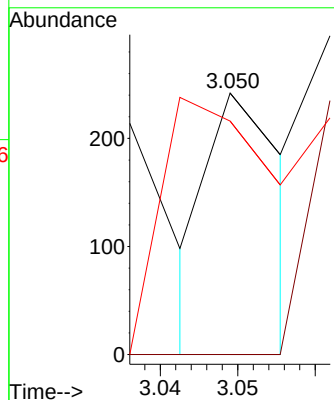
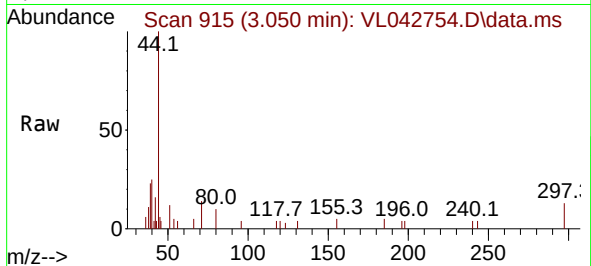




#41
Tetrahydrofuran
Concen: 0.005 ppbv
RT: 3.050 min Scan# 915
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

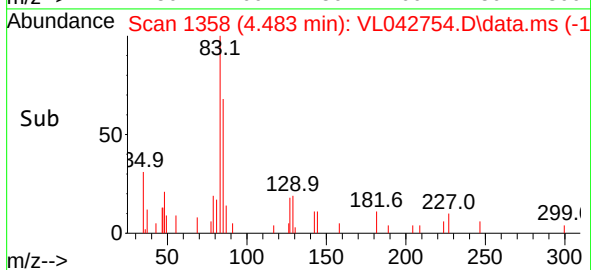
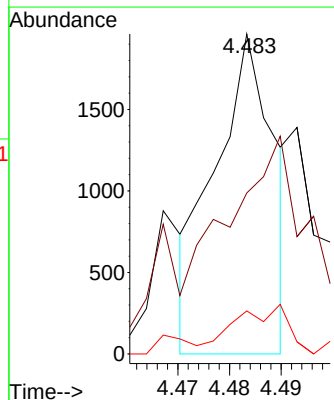
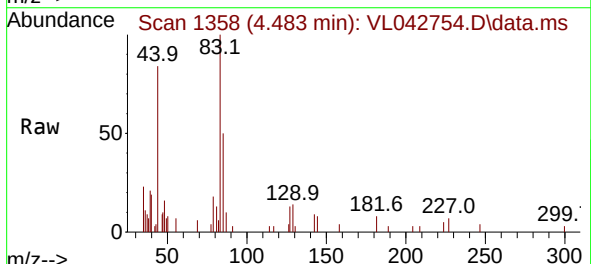
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

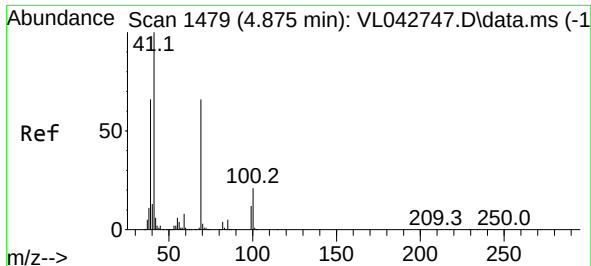
Tgt Ion: 42 Resp: 83
Ion Ratio Lower Upper
42 100
72 0.0 30.9 46.3#
71 0.0 28.6 43.0#



#42
Bromodichloromethane
Concen: 0.048 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 83 Resp: 1563
Ion Ratio Lower Upper
83 100
85 51.2 50.2 75.4
127 14.0 5.4 8.2#

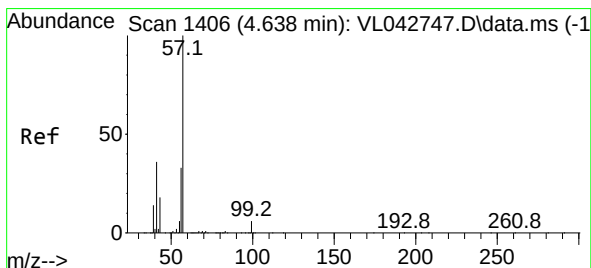
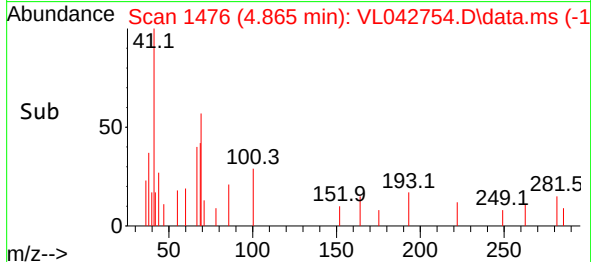
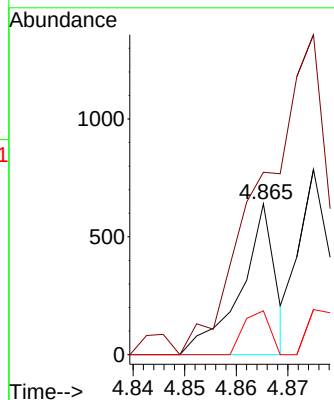
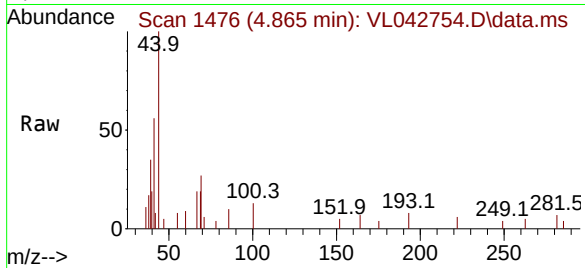




#43
Methyl Methacrylate
Concen: 0.020 ppbv
RT: 4.865 min Scan# 1479
Delta R.T. -0.009 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

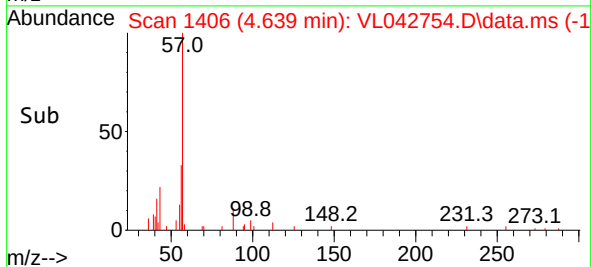
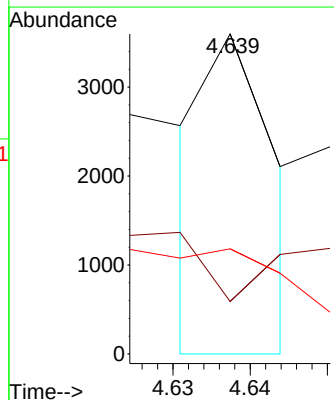
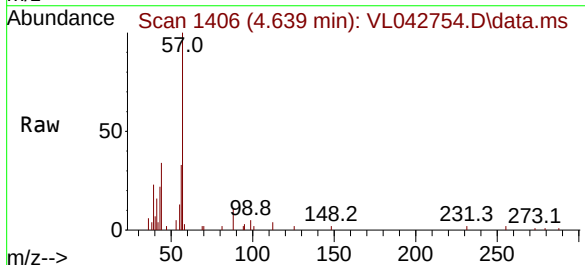
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

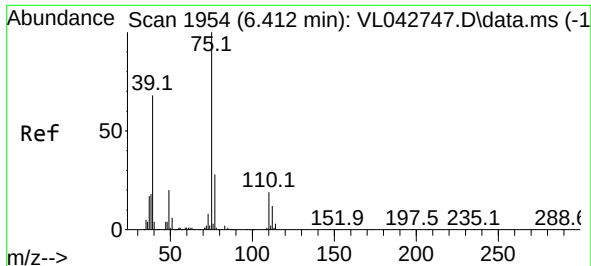
Tgt Ion: 69 Resp: 298
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5#
100 0.0 28.6 42.8#



#44
2,2,4-Trimethylpentane
Concen: 0.016 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 57 Resp: 1109
Ion Ratio Lower Upper
57 100
41 271.4 28.3 42.5#
56 0.0 25.8 38.6#

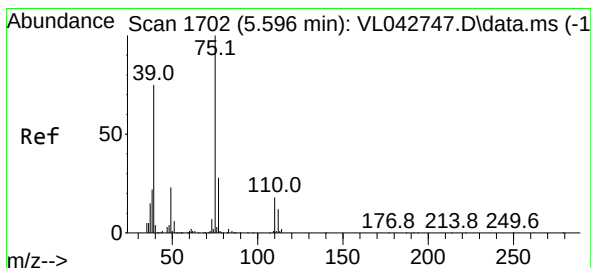
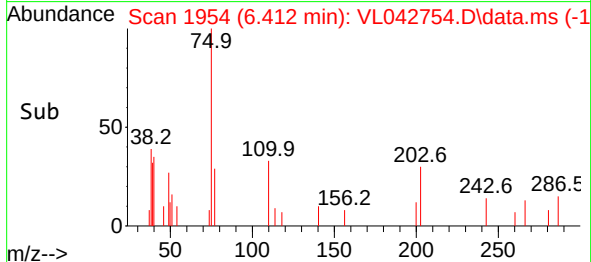
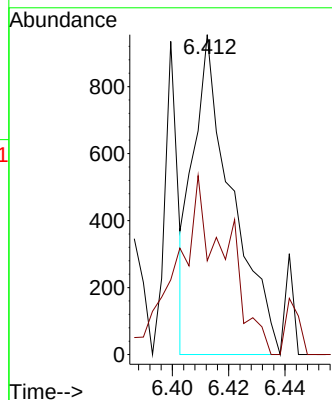
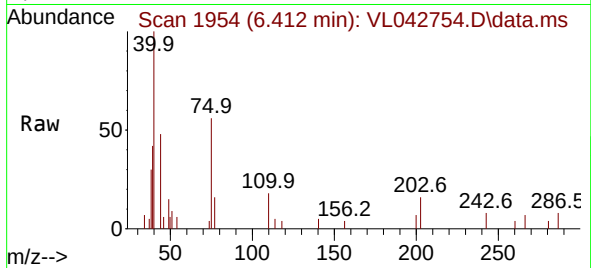




#45
t-1,3-Dichloropropene
Concen: 0.055 ppbv
RT: 6.412 min Scan# 1954
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

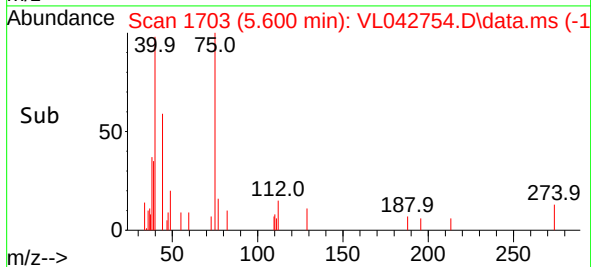
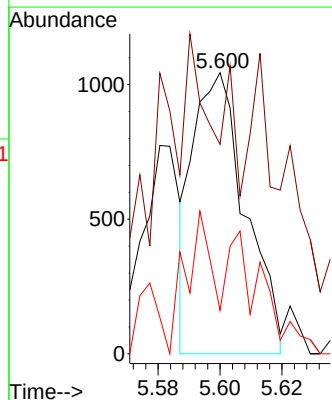
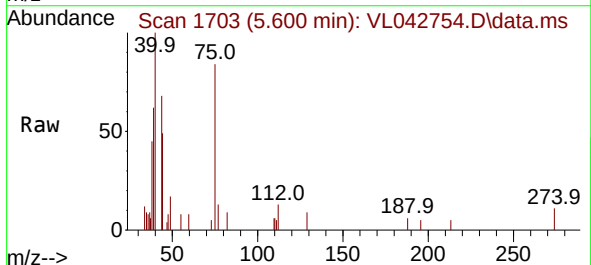
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

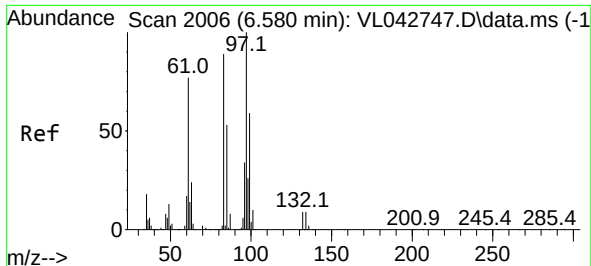
Tgt Ion: 75 Resp: 912
Ion Ratio Lower Upper
75 100
77 29.3 22.4 33.6



#46
cis-1,3-Dichloropropene
Concen: 0.059 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 75 Resp: 1232
Ion Ratio Lower Upper
75 100
39 17.5 60.2 90.2#
77 11.5 22.6 34.0#





#47

1,1,2-Trichloroethane

Concen: 0.048 ppbv

RT: 6.577 min Scan# 20

Delta R.T. -0.003 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.1

Tgt Ion: 97 Resp: 787

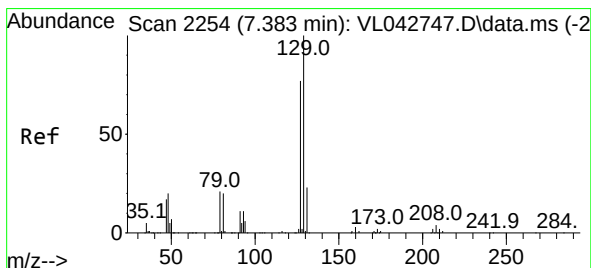
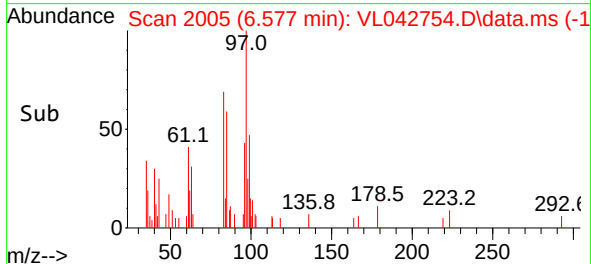
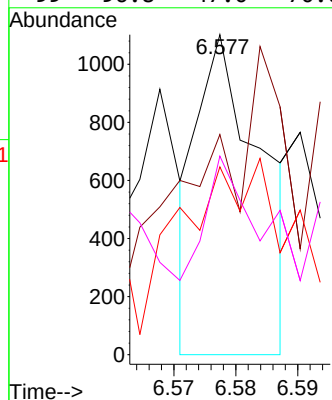
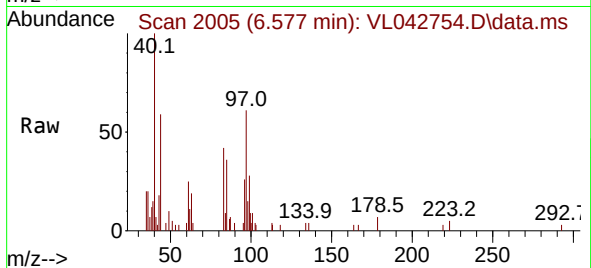
Ion Ratio Lower Upper

97 100

83 35.7 71.1 106.7#

85 67.0 43.0 64.4#

99 96.8 47.0 70.6#



#48

Dibromochloromethane

Concen: 0.061 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. -0.003 min

Lab File: VL042754.D

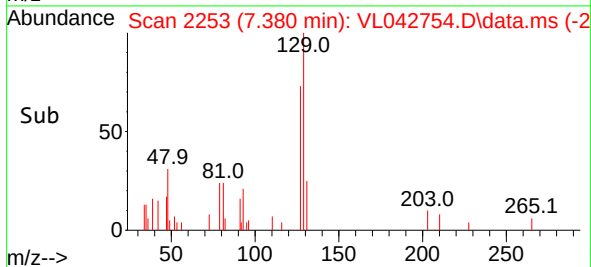
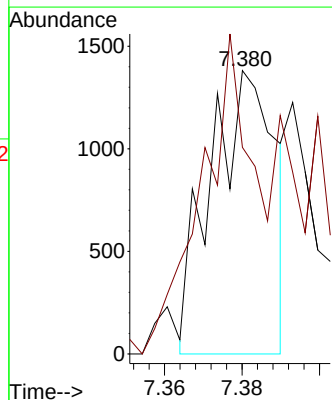
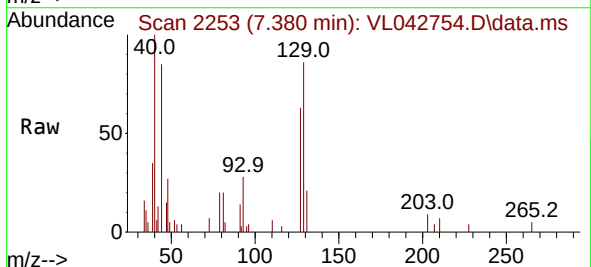
Acq: 23 Jul 2025 13:00

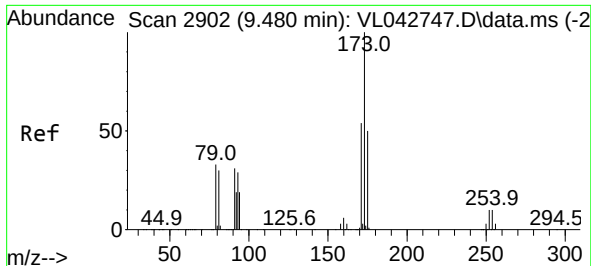
Tgt Ion: 129 Resp: 1591

Ion Ratio Lower Upper

129 100

127 145.4 38.7 116.1#





#49

Bromoform

Concen: 0.053 ppbv

RT: 9.477 min Scan# 2901

Delta R.T. -0.003 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

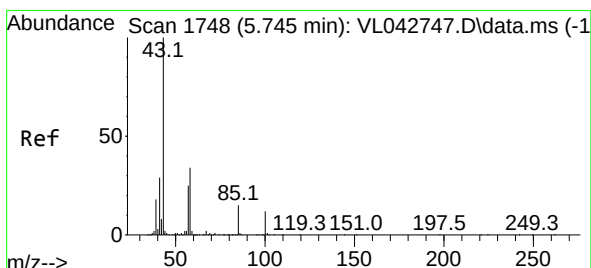
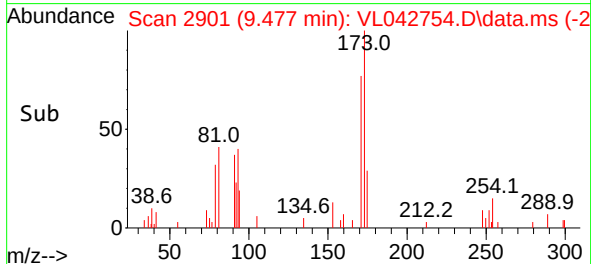
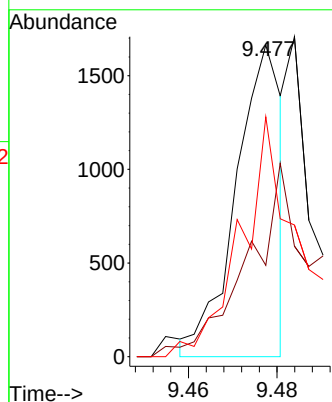
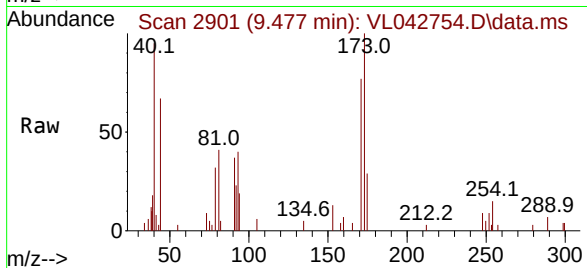
Tgt Ion:173 Resp: 1201

Ion Ratio Lower Upper

173 100

175 0.0 38.4 57.6#

171 100.8 40.9 61.3#



#50

4-Methyl-2-Pentanone

Concen: 0.003 ppbv

RT: 5.739 min Scan# 1746

Delta R.T. -0.006 min

Lab File: VL042754.D

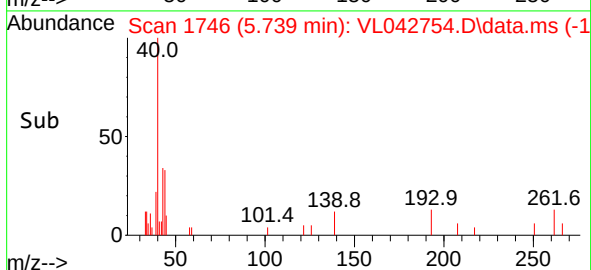
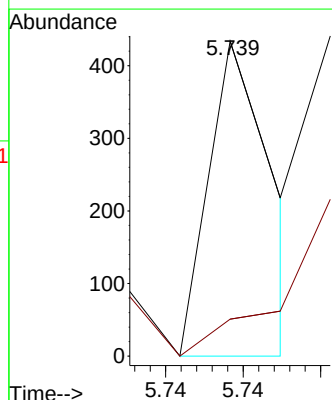
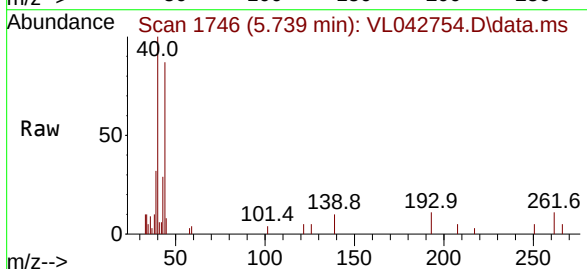
Acq: 23 Jul 2025 13:00

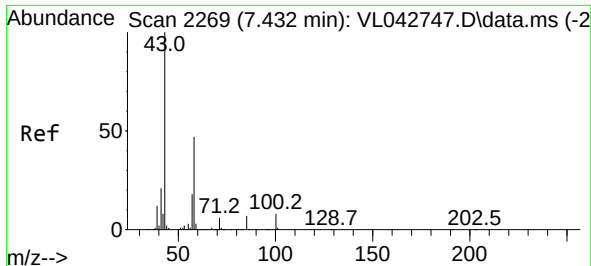
Tgt Ion: 43 Resp: 126

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.8#

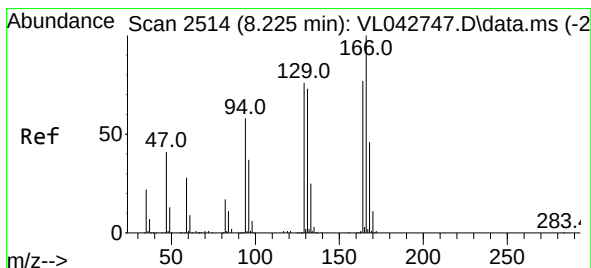
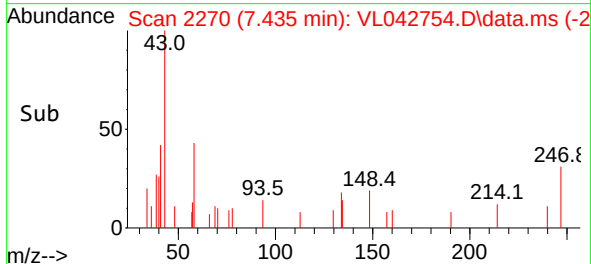
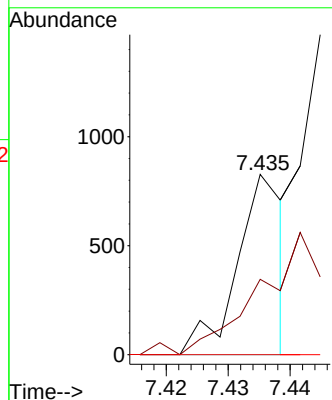
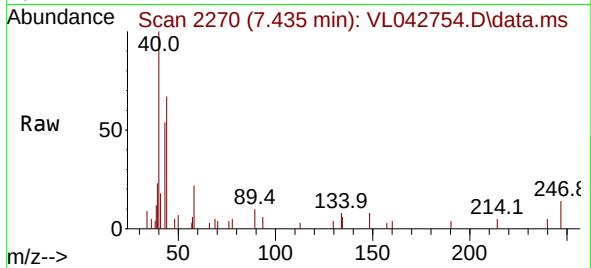




#51
2-Hexanone
Concen: 0.014 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

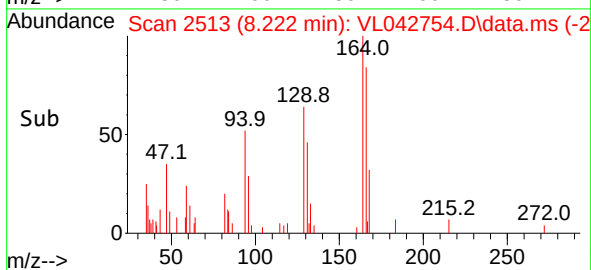
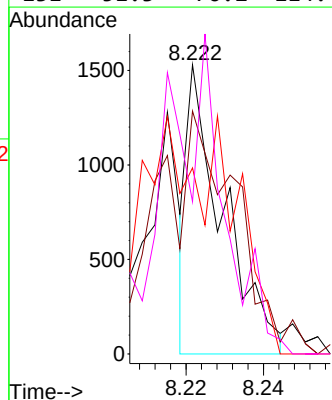
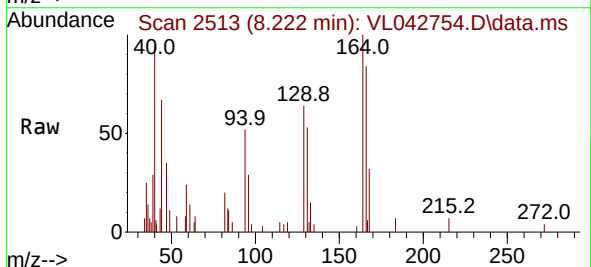
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

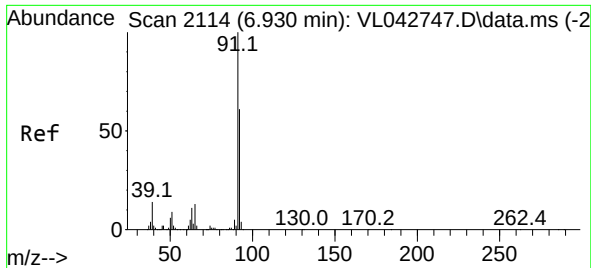
Tgt Ion: 43 Resp: 436
Ion Ratio Lower Upper
43 100
58 0.0 38.0 57.0#
98 0.0 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.057 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 164 Resp: 981
Ion Ratio Lower Upper
164 100
166 85.9 104.0 156.0#
129 69.2 79.2 118.8#
131 51.3 76.2 114.4#

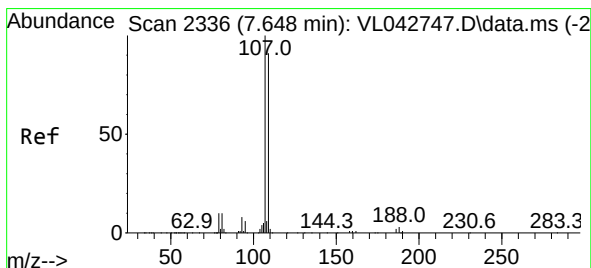
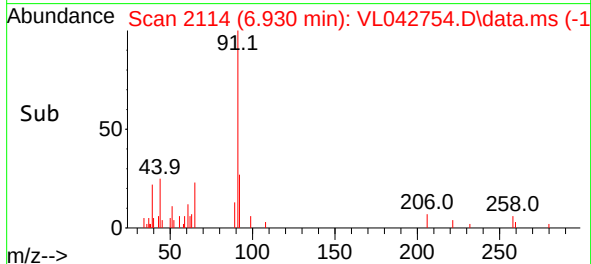
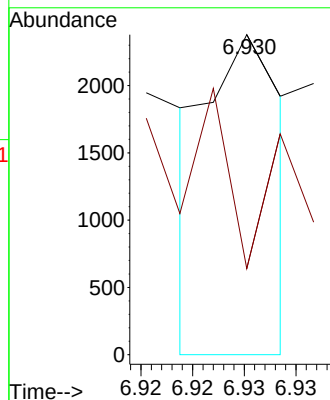
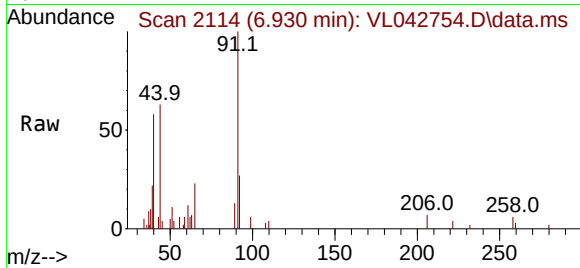




#53
Toluene
Concen: 0.027 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

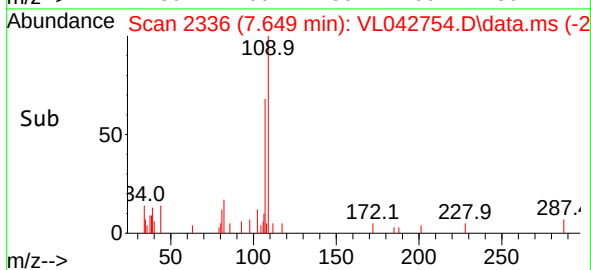
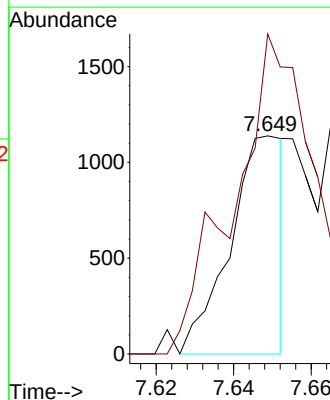
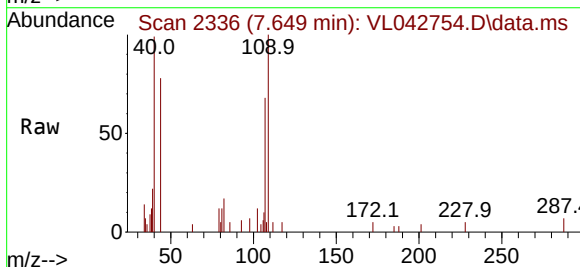
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

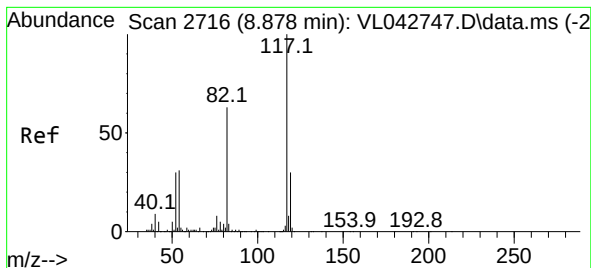
Tgt Ion: 91 Resp: 1198
Ion Ratio Lower Upper
91 100
92 229.3 48.0 72.0#



#54
1,2-Dibromoethane
Concen: 0.047 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 107 Resp: 1080
Ion Ratio Lower Upper
107 100
109 136.0 72.7 109.1#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 2716

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

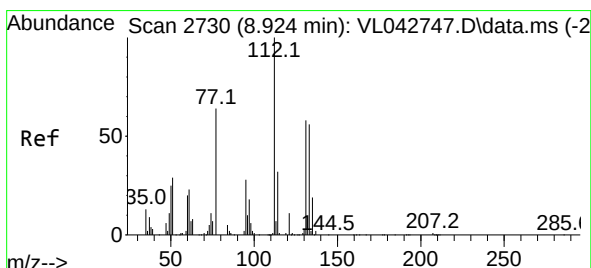
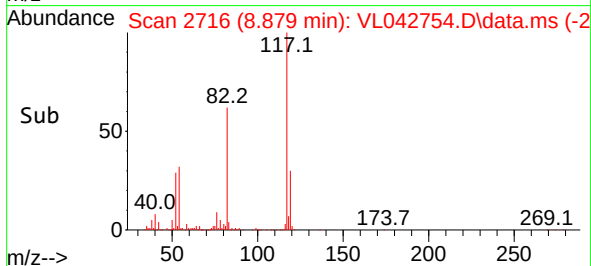
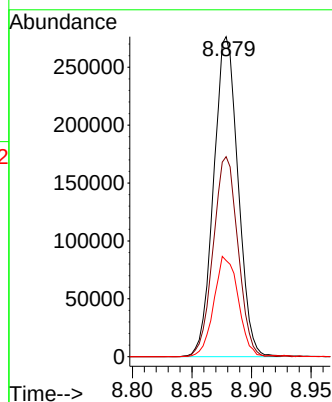
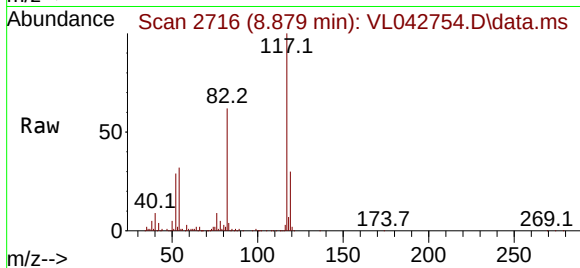
Tgt Ion:117 Resp: 393042

Ion Ratio Lower Upper

117 100

82 63.6 53.3 79.9

119 31.7 25.8 38.6



#56

1,1,1,2-Tetrachloroethane

Concen: 0.045 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. 0.004 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

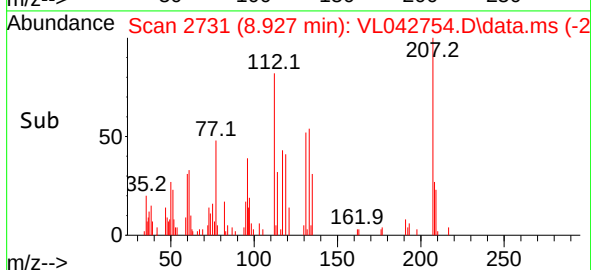
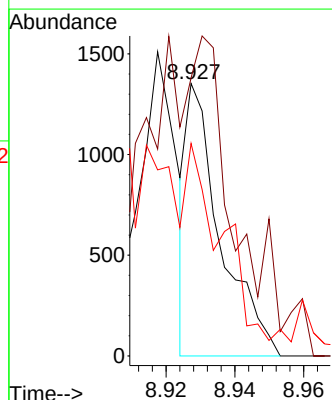
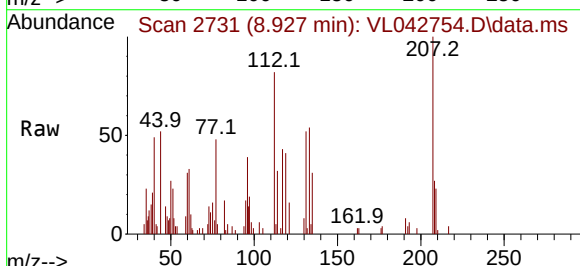
Tgt Ion:131 Resp: 922

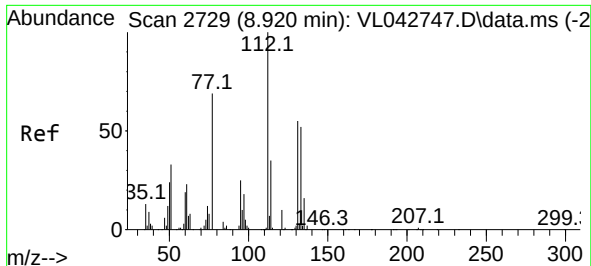
Ion Ratio Lower Upper

131 100

133 315.4 76.8 115.2#

119 0.0 49.7 74.5#





#57

Chlorobenzene

Concen: 0.114 ppbv

RT: 8.921 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

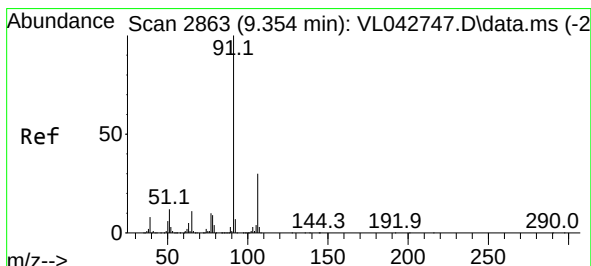
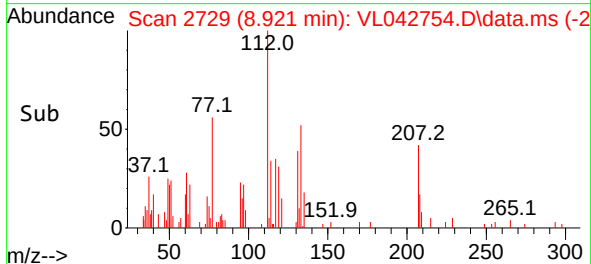
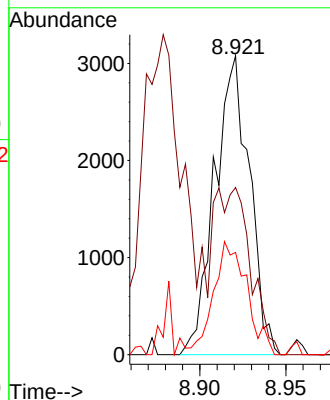
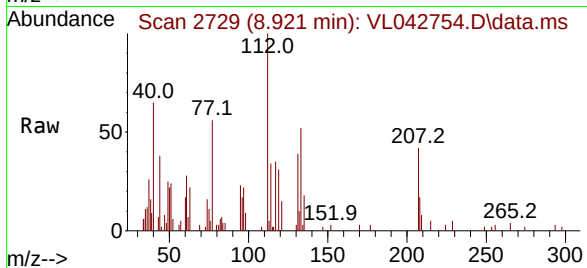
Tgt Ion:112 Resp: 4337

Ion Ratio Lower Upper

112 100

77 55.9 56.4 84.6#

114 34.2 31.2 38.2



#58

Ethyl Benzene

Concen: 0.035 ppbv

RT: 9.358 min Scan# 2864

Delta R.T. 0.004 min

Lab File: VL042754.D

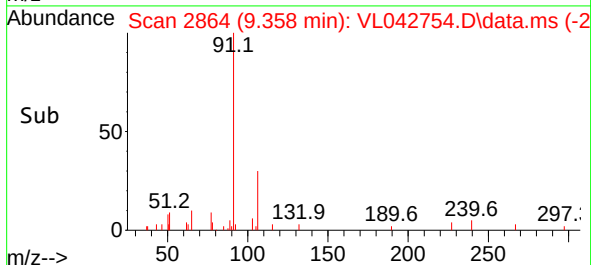
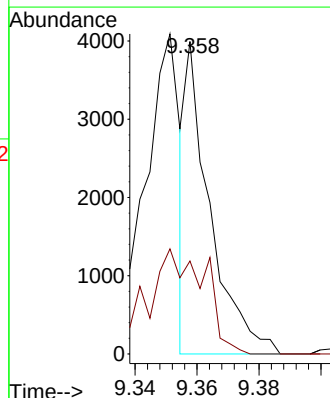
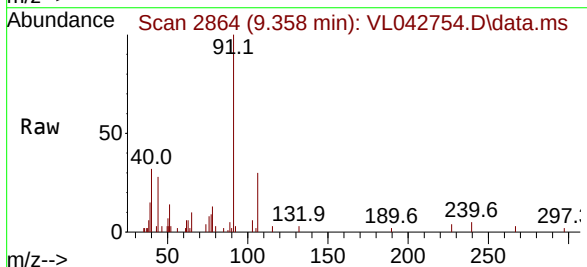
Acq: 23 Jul 2025 13:00

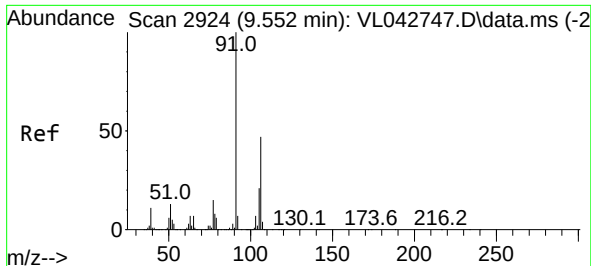
Tgt Ion: 91 Resp: 2183

Ion Ratio Lower Upper

91 100

106 29.8 23.8 35.6





#59

m/p-Xylene

Concen: 0.109 ppbv

RT: 9.539 min Scan# 2924

Delta R.T. -0.013 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

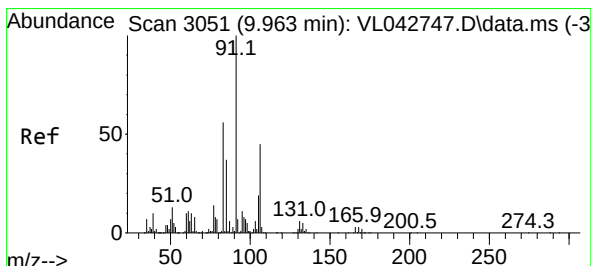
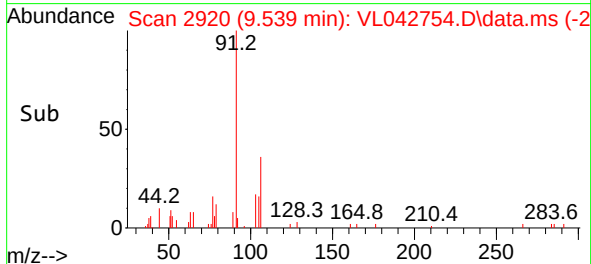
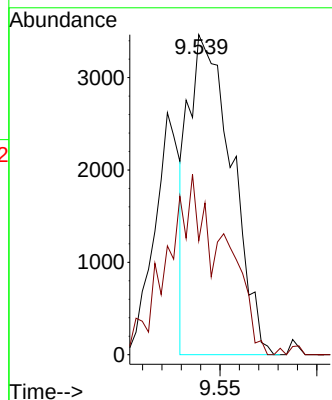
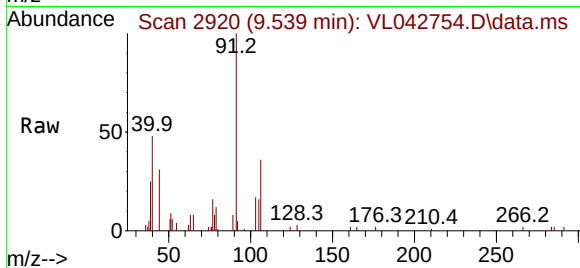
VSTDIC0.1

Tgt Ion: 91 Resp: 5405

Ion Ratio Lower Upper

91 100

106 73.2 37.4 56.2#



#60

o-Xylene

Concen: 0.042 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042754.D

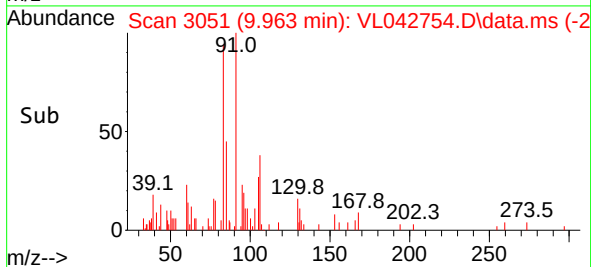
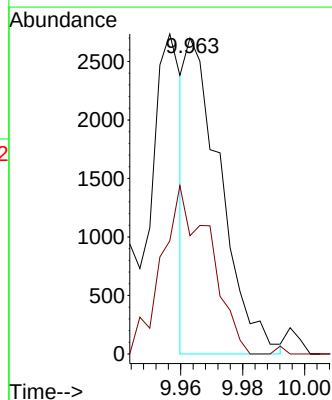
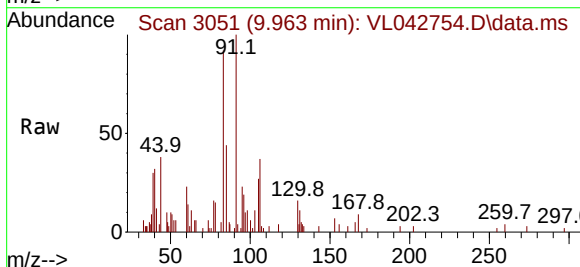
Acq: 23 Jul 2025 13:00

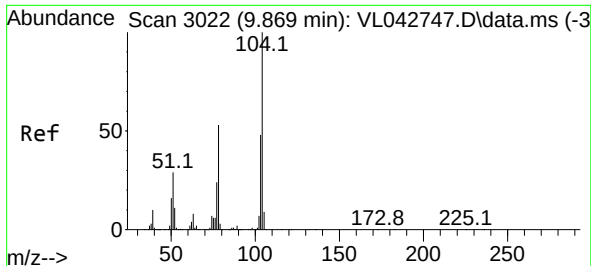
Tgt Ion: 91 Resp: 2101

Ion Ratio Lower Upper

91 100

106 74.2 22.0 66.0#





#61

Styrene

Concen: 0.039 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.004 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

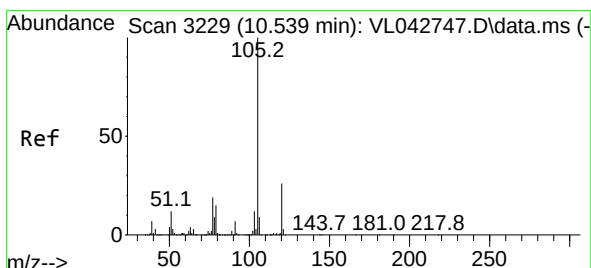
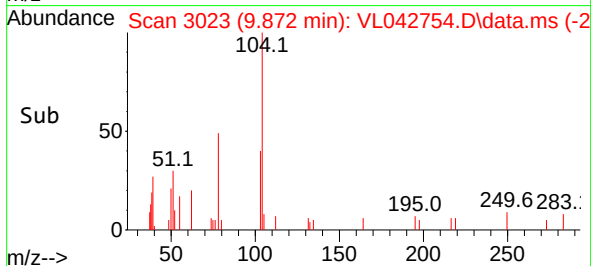
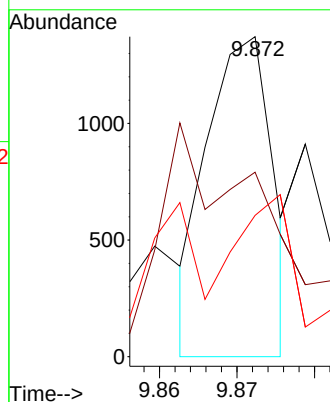
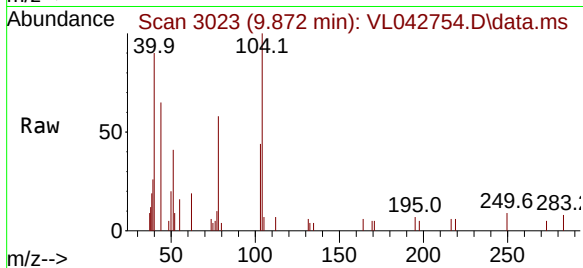
Tgt Ion:104 Resp: 807

Ion Ratio Lower Upper

104 100

78 0.0 41.5 62.3#

103 91.7 37.5 56.3#



#62

Isopropylbenzene

Concen: 0.082 ppbv

RT: 10.536 min Scan# 3228

Delta R.T. -0.003 min

Lab File: VL042754.D

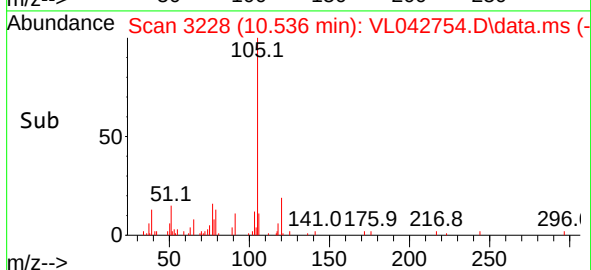
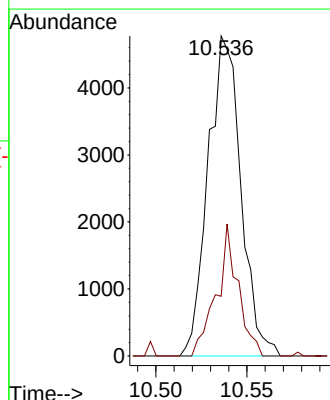
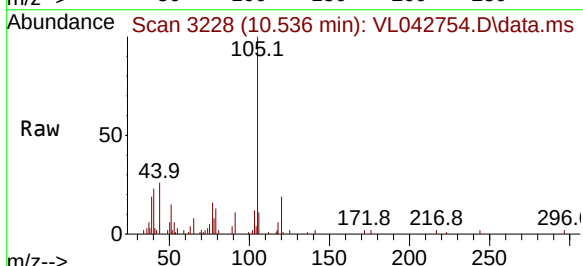
Acq: 23 Jul 2025 13:00

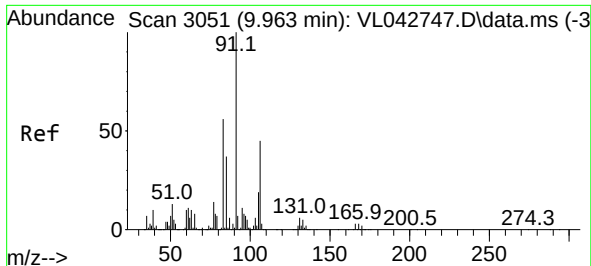
Tgt Ion:105 Resp: 5985

Ion Ratio Lower Upper

105 100

120 27.1 20.5 30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 0.062 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

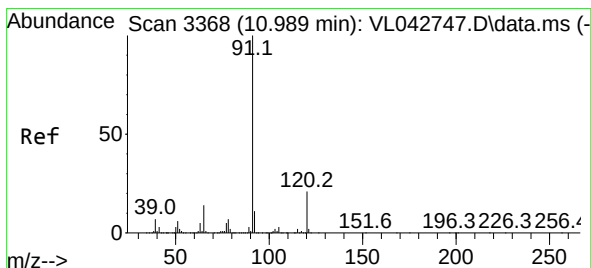
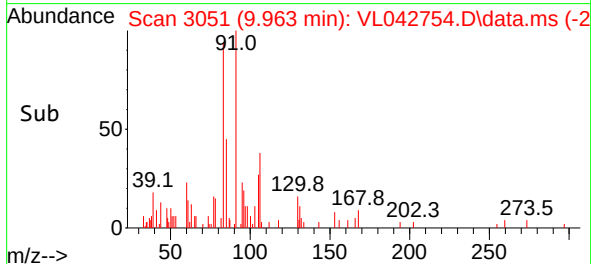
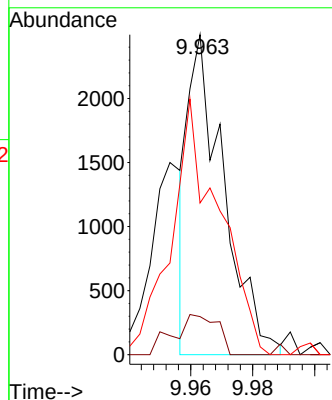
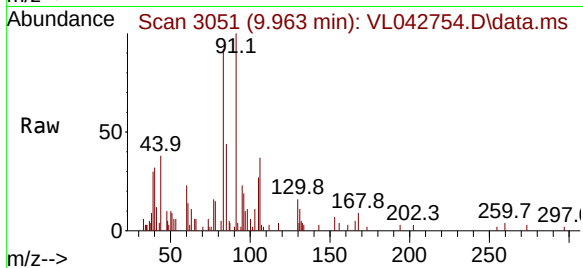
Tgt Ion: 83 Resp: 1989

Ion Ratio Lower Upper

83 100

131 16.8 5.0 15.0#

85 109.7 32.6 97.7#



#64

n-propylbenzene

Concen: 0.003 ppbv

RT: 11.025 min Scan# 3379

Delta R.T. 0.036 min

Lab File: VL042754.D

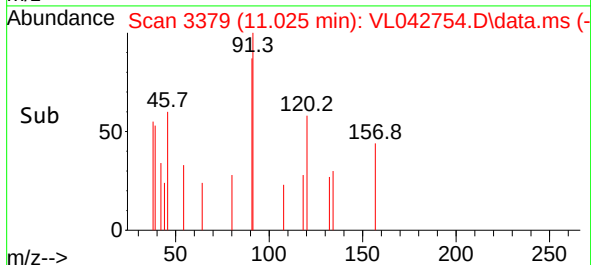
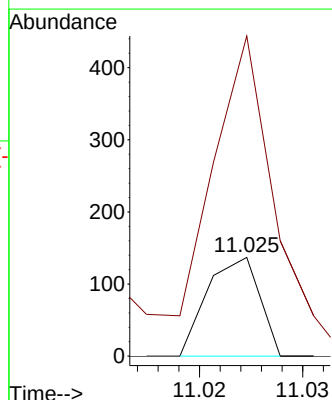
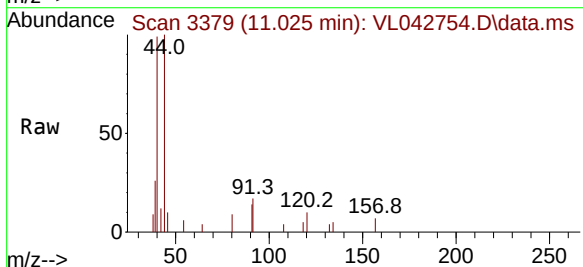
Acq: 23 Jul 2025 13:00

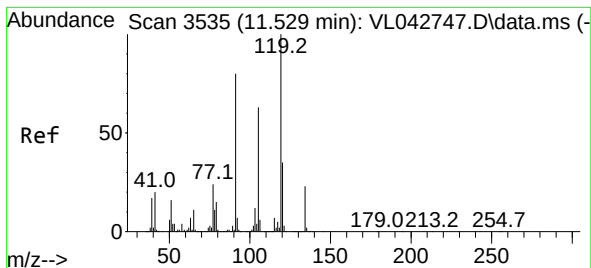
Tgt Ion: 120 Resp: 48

Ion Ratio Lower Upper

120 100

91 397.9 372.7 559.1





#65

tert-Butylbenzene

Concen: 0.072 ppbv

RT: 11.523 min Scan# 3533

Delta R.T. -0.006 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

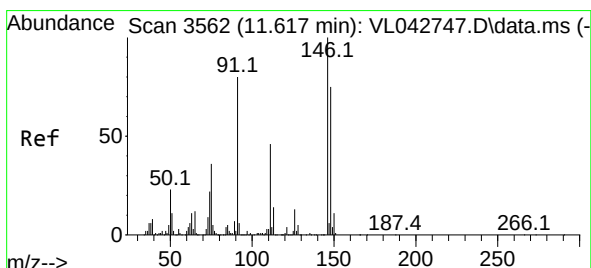
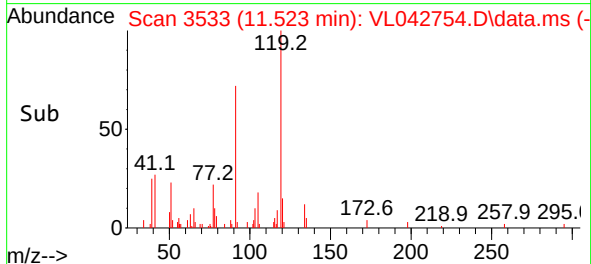
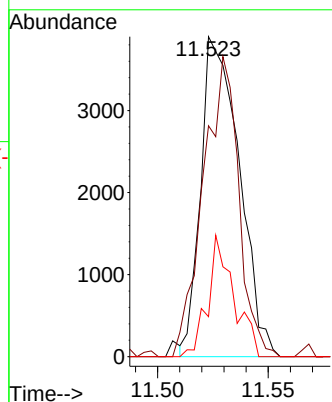
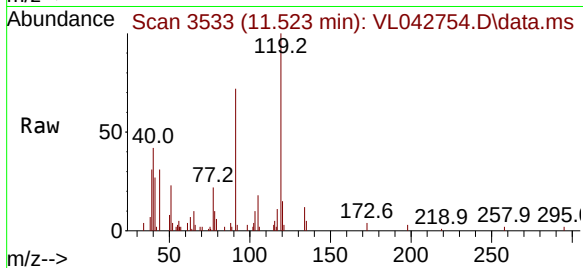
Tgt Ion:119 Resp: 4707

Ion Ratio Lower Upper

119 100

91 88.0 64.0 96.0

134 25.6 17.3 25.9



#66

Benzyl Chloride

Concen: 0.038 ppbv

RT: 11.614 min Scan# 3561

Delta R.T. -0.003 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

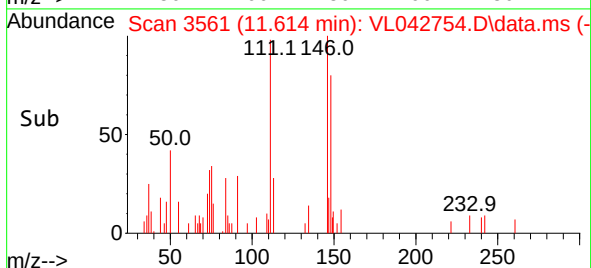
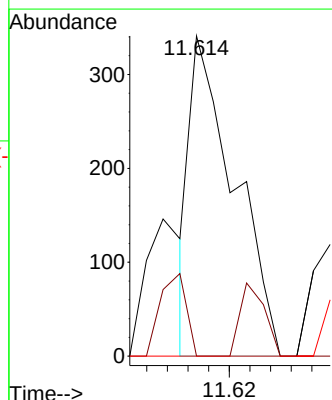
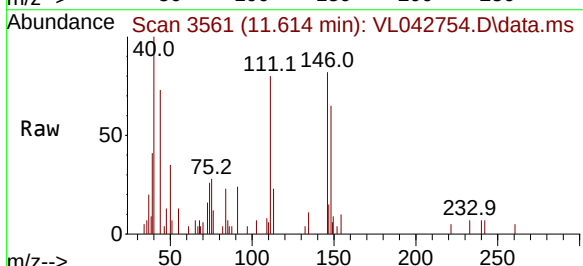
Tgt Ion: 91 Resp: 204

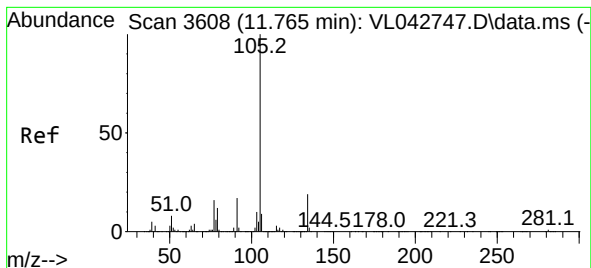
Ion Ratio Lower Upper

91 100

126 27.9 14.4 21.6#

128 0.0 5.2 7.8#





#67

sec-Butylbenzene

Concen: 0.070 ppbv

RT: 11.766 min Scan# 3608

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

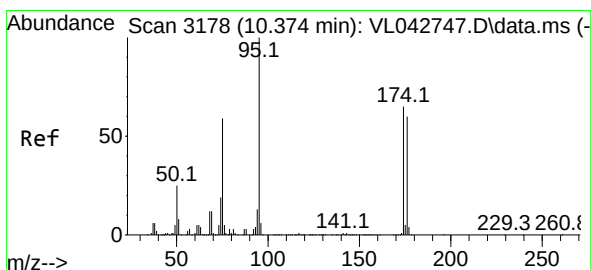
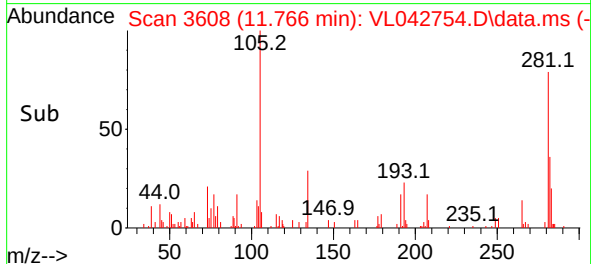
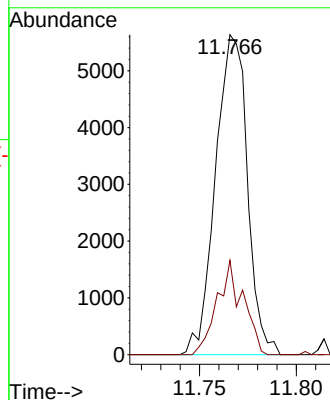
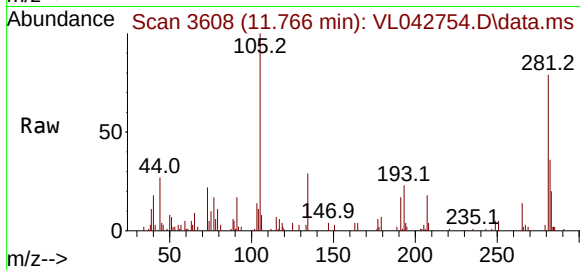
VSTDIC0.1

Tgt Ion:105 Resp: 6449

Ion Ratio Lower Upper

105 100

134 24.1 15.5 23.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.583 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

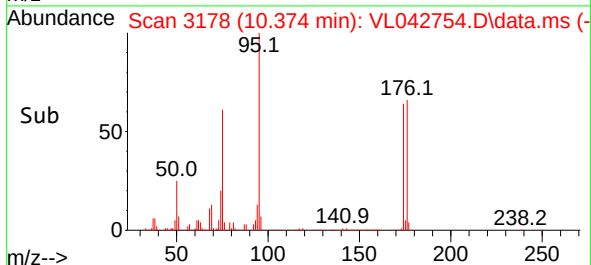
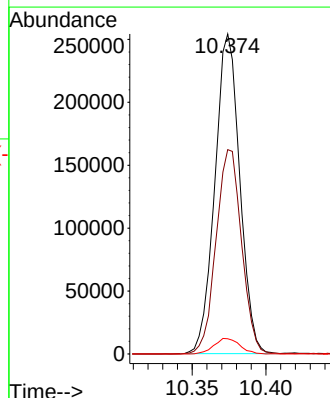
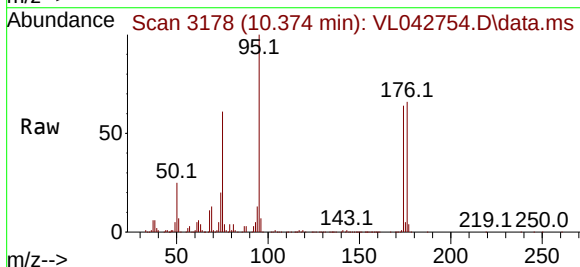
Tgt Ion: 95 Resp: 298283

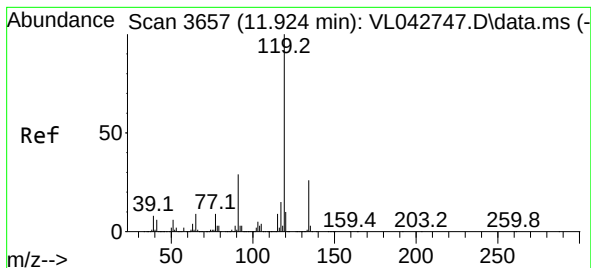
Ion Ratio Lower Upper

95 100

174 65.8 53.8 80.6

175 5.0 4.0 6.0





#69

p-Isopropyltoluene

Concen: 0.071 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

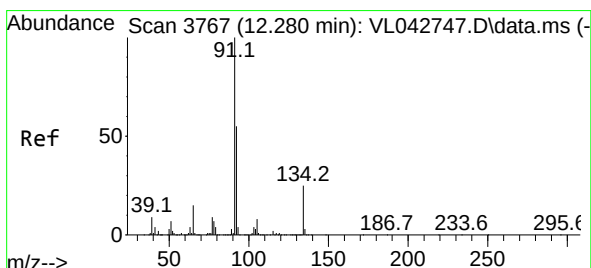
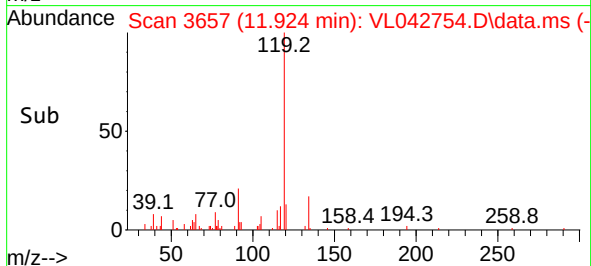
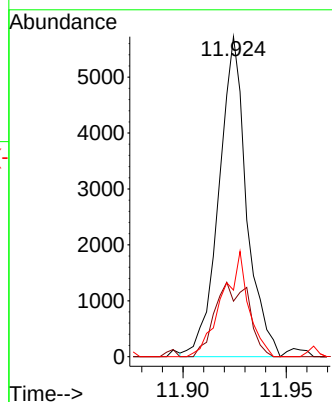
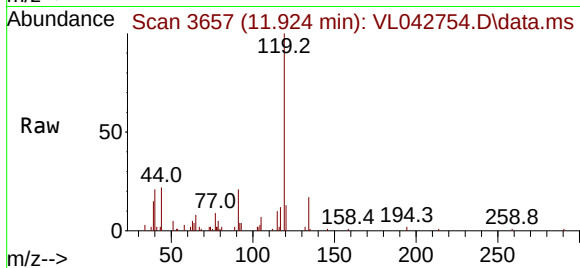
Tgt Ion:119 Resp: 5342

Ion Ratio Lower Upper

119 100

134 29.1 20.6 31.0

91 32.5 23.2 34.8



#70

n-Butylbenzene

Concen: 0.058 ppbv

RT: 12.284 min Scan# 3768

Delta R.T. 0.004 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

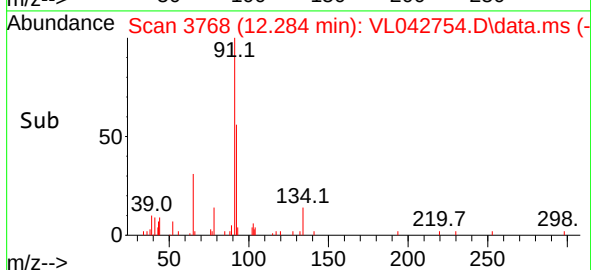
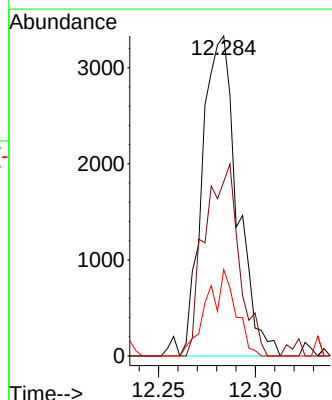
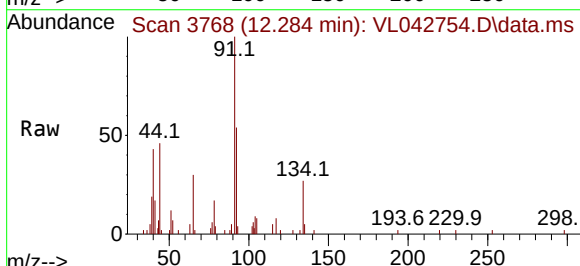
Tgt Ion: 91 Resp: 4198

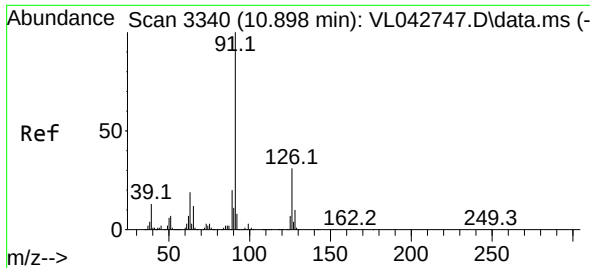
Ion Ratio Lower Upper

91 100

92 60.2 43.4 65.2

134 23.3 19.6 29.4

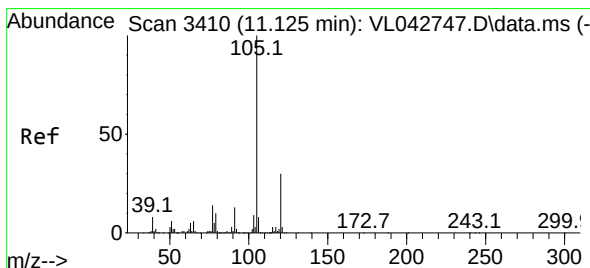
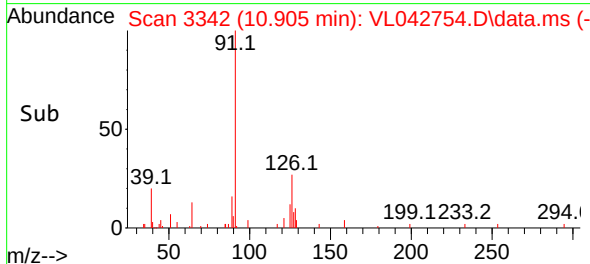
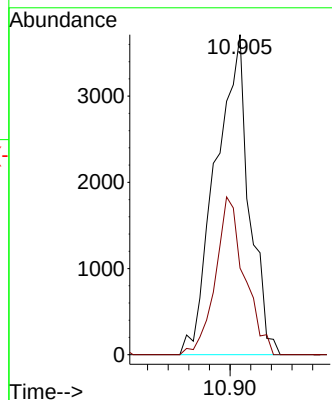
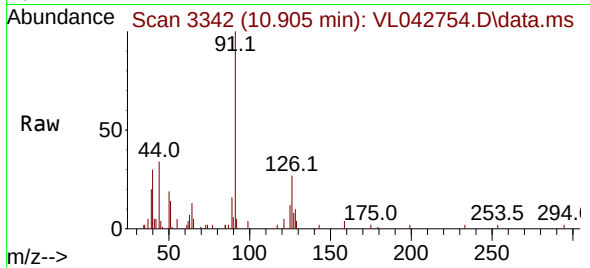




#71
2-Chlorotoluene
Concen: 0.075 ppbv
RT: 10.905 min Scan# 3110
Delta R.T. 0.007 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

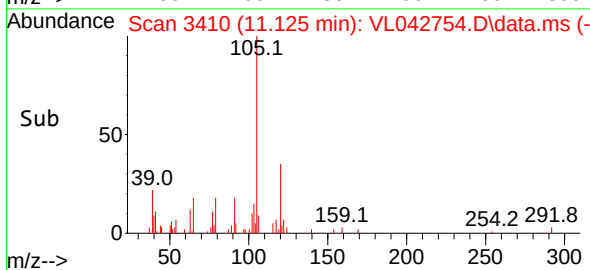
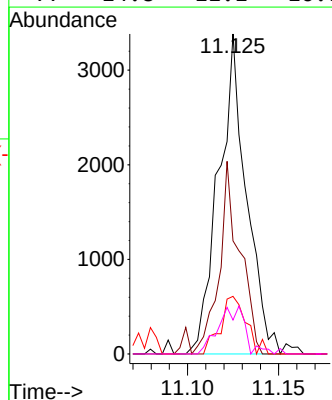
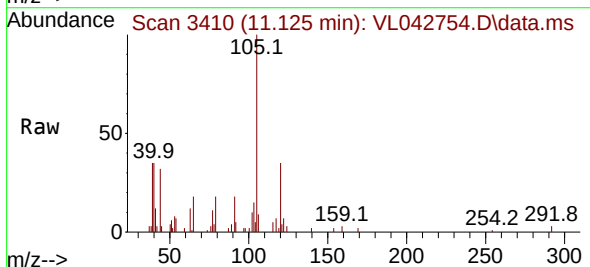
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

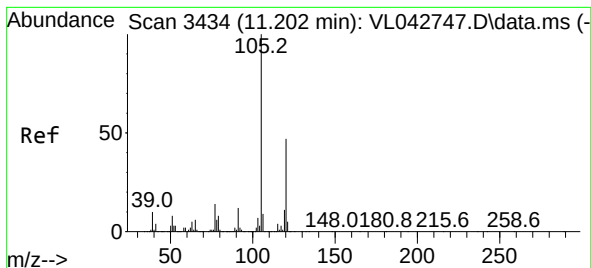
Tgt Ion: 91 Resp: 4180
Ion Ratio Lower Upper
91 100
126 42.8 12.0 48.2



#72
4-Ethyltoluene
Concen: 0.061 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion: 105 Resp: 3597
Ion Ratio Lower Upper
105 100
120 46.2 24.4 36.6#
91 16.8 10.6 15.8#
77 14.8 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.074 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. -0.003 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_1

ClientSampleId :

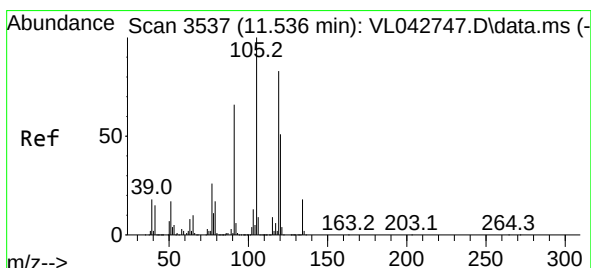
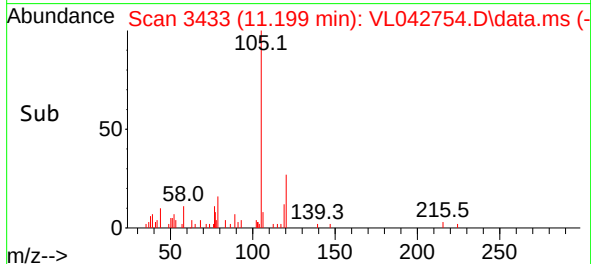
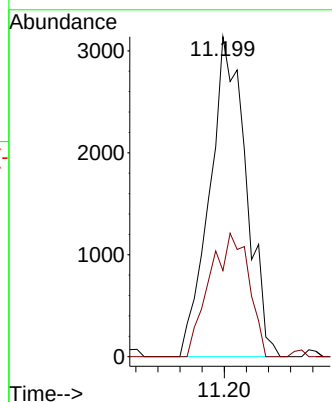
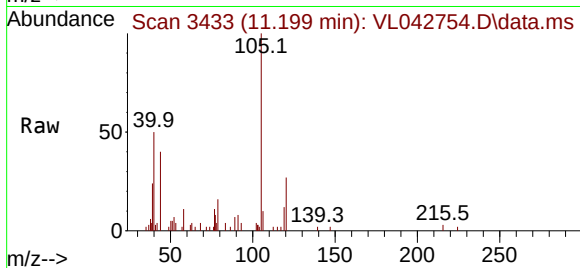
VSTDIC0.1

Tgt Ion:105 Resp: 3603

Ion Ratio Lower Upper

105 100

120 26.9 37.8 56.8#



#74

1,2,4-Trimethylbenzene

Concen: 0.072 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Tgt Ion:105 Resp: 3826

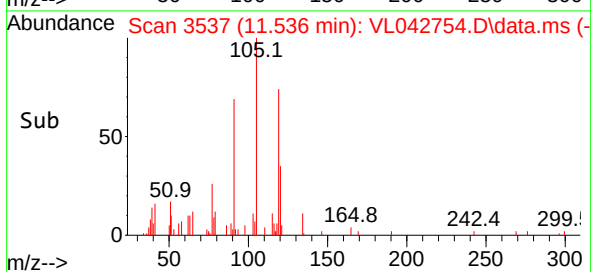
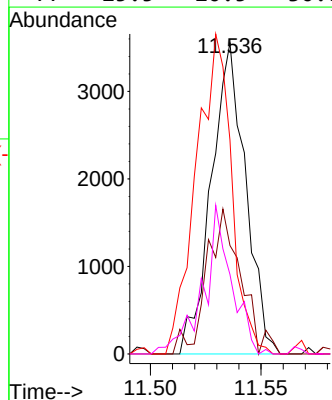
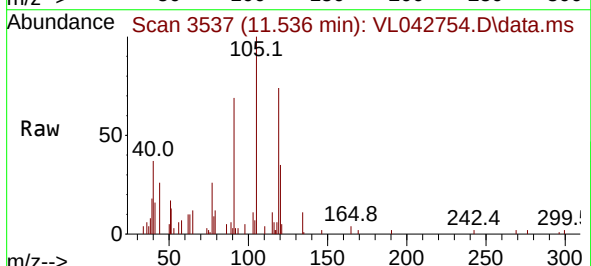
Ion Ratio Lower Upper

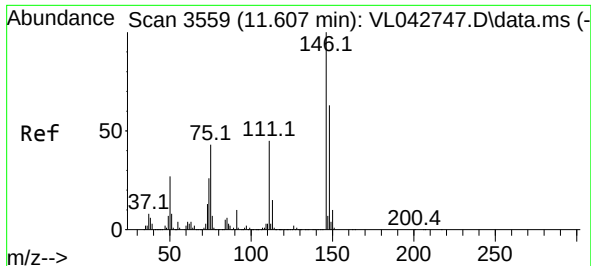
105 100

120 34.8 40.8 61.2#

91 68.7 53.0 79.4

77 25.5 20.5 30.7

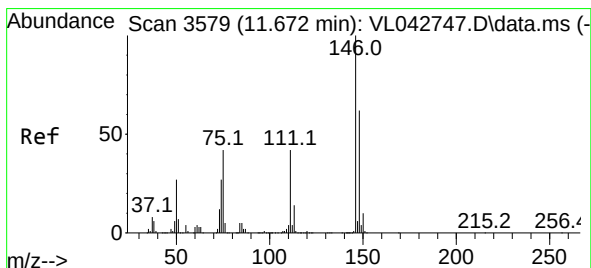
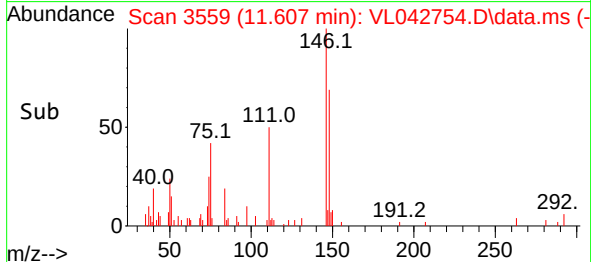
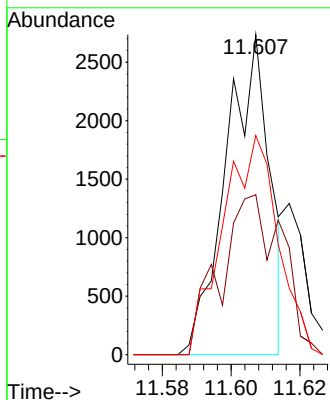
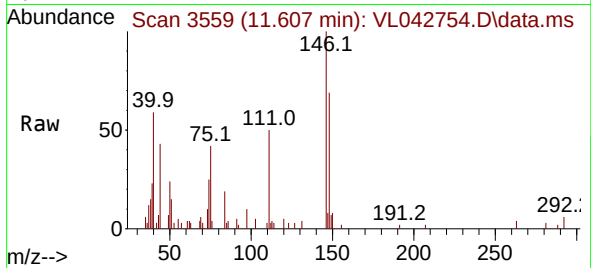




#75
1,3-Dichlorobenzene
Concen: 0.065 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

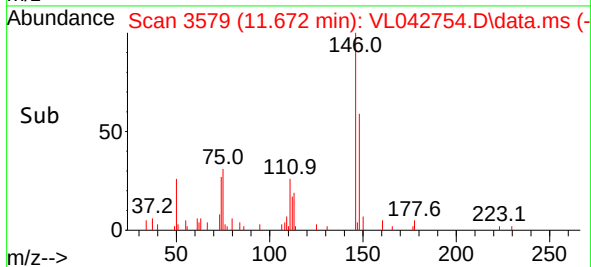
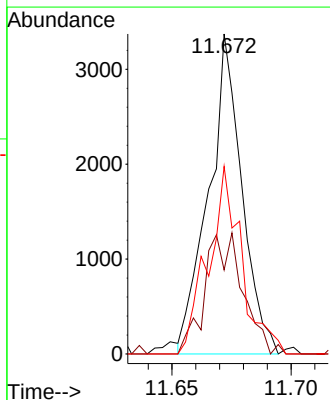
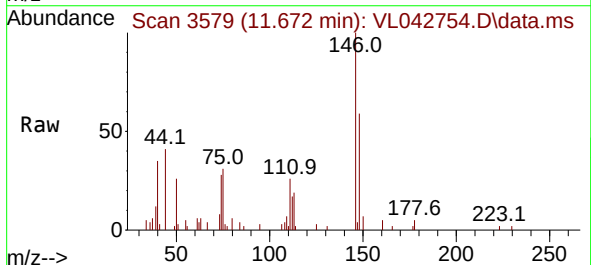
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

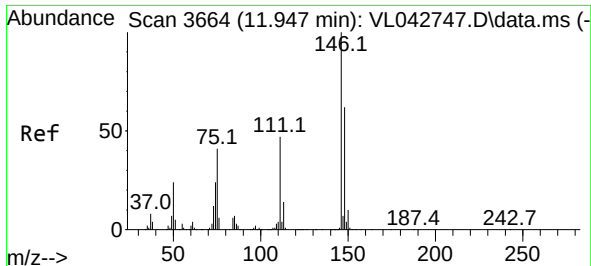
Tgt Ion:146 Resp: 2417
Ion Ratio Lower Upper
146 100
111 70.0 22.7 68.0#
148 86.3 31.9 95.5



#76
1,4-Dichlorobenzene
Concen: 0.090 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:146 Resp: 3265
Ion Ratio Lower Upper
146 100
111 43.3 21.4 64.2
148 58.6 32.1 96.3

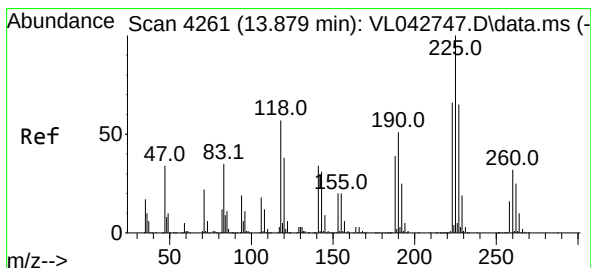
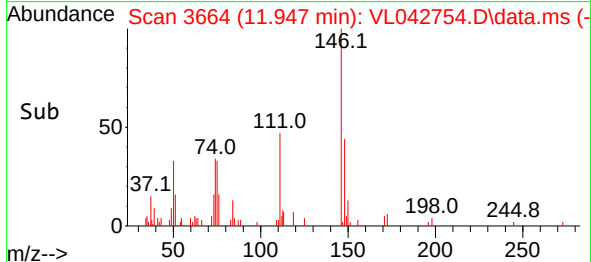
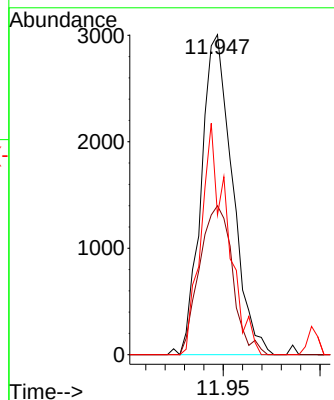
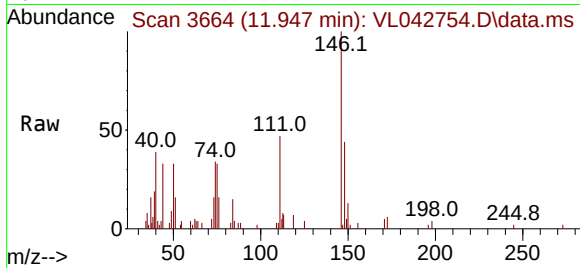




#77
1,2-Dichlorobenzene
Concen: 0.092 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

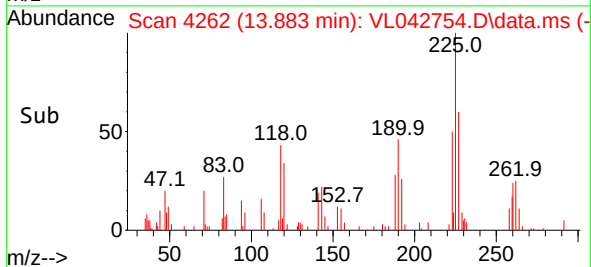
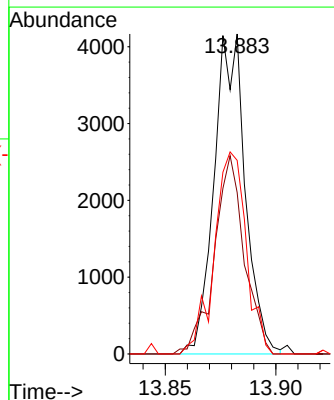
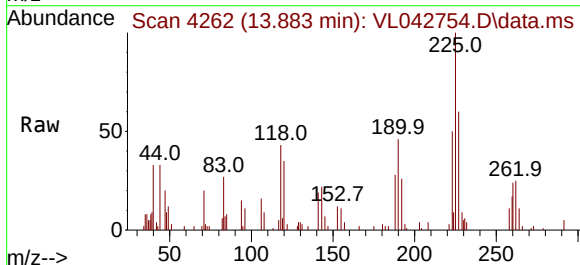
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

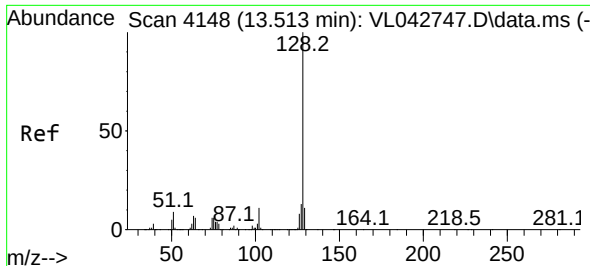
Tgt Ion:	146	Resp:	3354
Ion	Ratio	Lower	Upper
146	100		
111	49.5	23.7	71.1
148	61.6	32.6	97.7



#78
Hexachloro-1,3-Butadiene
Concen: 0.123 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:	225	Resp:	4077
Ion	Ratio	Lower	Upper
225	100		
223	59.6	50.7	76.1
227	64.7	50.5	75.7

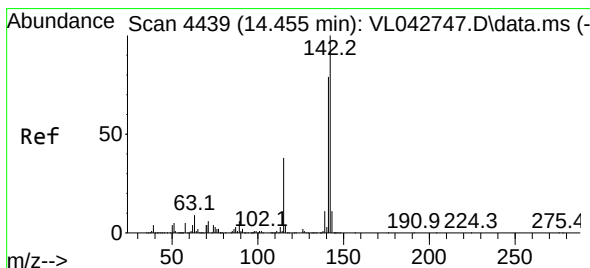
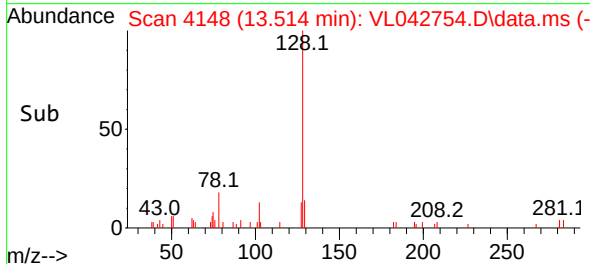
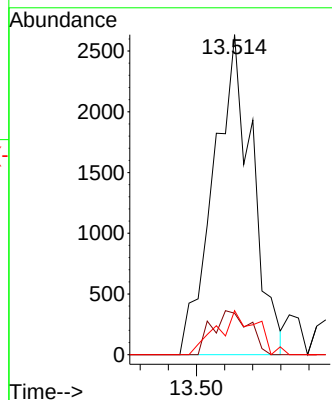
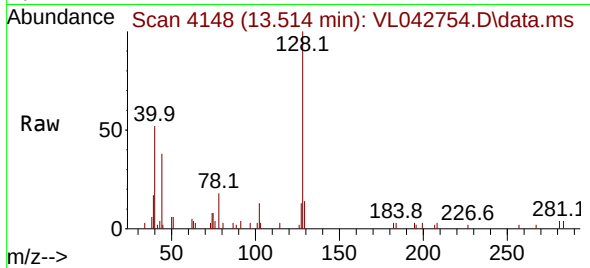




#79
Naphthalene
Concen: 0.475 ppbv
RT: 13.514 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

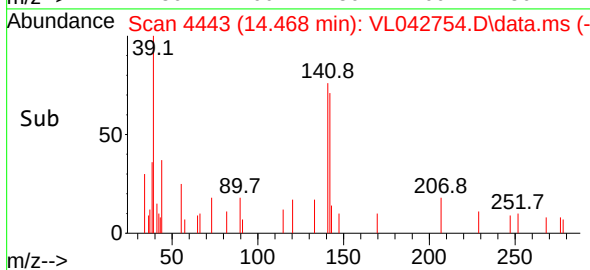
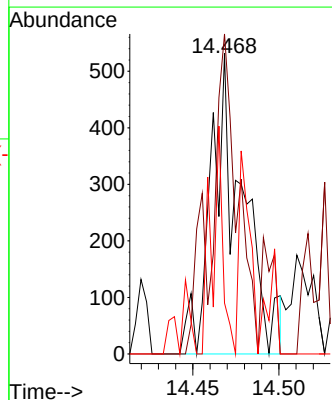
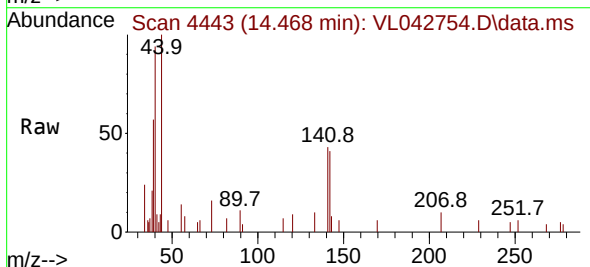
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

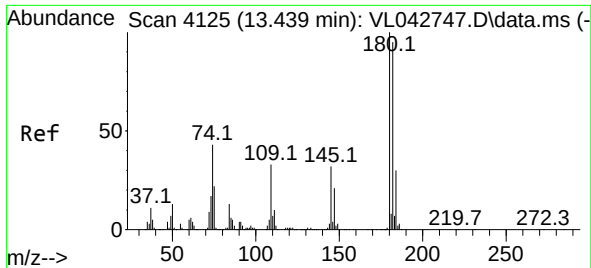
Tgt Ion:128 Resp: 2509
Ion Ratio Lower Upper
128 100
127 12.9 10.5 15.7
129 13.7 8.6 13.0#



#80
Naphthalene,2-methyl-
Concen: 1.147 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.013 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:142 Resp: 676
Ion Ratio Lower Upper
142 100
141 103.7 65.8 98.8#
115 65.2 31.2 46.8#





#81

1,2,4-Trichlorobenzene

Concen: 0.475 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.004 min

Lab File: VL042754.D

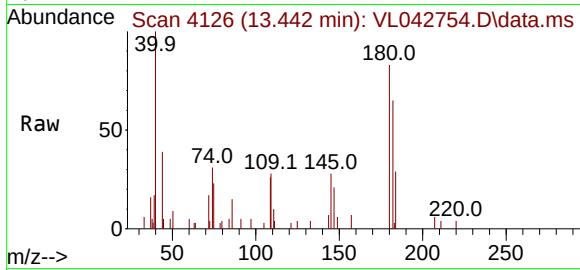
Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1



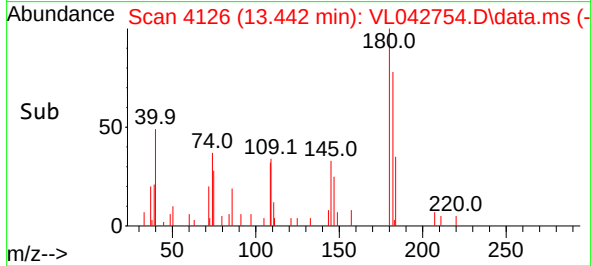
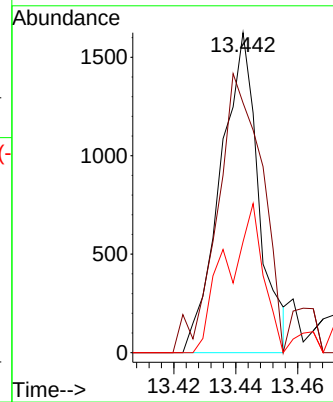
Tgt Ion:180 Resp: 1396

Ion Ratio Lower Upper

180 100

182 110.8 76.2 114.2

184 53.7 24.8 37.2#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Quant Time: Jul 24 05:28:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	148064	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	421747	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	380539	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	313324	10.397	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	185425	9.472	ppbv	99
3) Chlorodifluoromethane	1.473	51	242908	9.525	ppbv	99
4) Chloromethane	1.531	50	72221	9.119	ppbv	98
5) Vinyl Chloride	1.577	62	64673	8.265	ppbv	100
6) Bromomethane	1.664	94	27096	8.957	ppbv	99
7) Chloroethane	1.700	64	26125	8.641	ppbv	99
8) Dichlorotetrafluoroethane	1.551	85	148833	9.244	ppbv	100
9) Propene	1.479	41	86343	9.316	ppbv	95
10) Heptane	4.965	43	247934	9.921	ppbv	99
11) Trichlorofluoromethane	1.874	101	179643	8.902	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.136	101	138363	9.023	ppbv	98
13) Ethanol	1.719	45	7690	10.243	ppbv	92
14) Bromoethene	1.777	108	48972	9.020	ppbv	98
15) Acetone	1.832	43	149742	7.324	ppbv	99
16) 1,3-Butadiene	1.606	39	79112	9.072	ppbv	98
17) tert-Butyl alcohol	2.036	59	170096	9.225	ppbv	98
18) 1,1-Dichloroethene	2.030	96	62149	8.970	ppbv	96
19) Isopropyl Alcohol	1.881	45	97844	9.006	ppbv	99
20) Methylene Chloride	2.056	84	53608	8.320	ppbv	98
21) Allyl Chloride	2.091	41	118958	9.441	ppbv	100
22) trans-1,2-Dichloroethene	2.334	96	69482	9.322	ppbv	97
23) Vinyl Acetate	2.457	43	261938	10.568	ppbv	98
24) 1,1-Dichloroethane	2.402	63	137586	8.993	ppbv	99
25) Ethyl Acetate	2.829	43	444208	9.816	ppbv	99
26) Hexane	2.819	57	190523	9.597	ppbv	98
27) Carbon Disulfide	2.146	76	164040	9.652	ppbv	99
28) Methyl tert-Butyl Ether	2.434	73	85480	9.114	ppbv	98
29) Chloroform	2.842	83	295808	9.643	ppbv	99
30) Cyclohexane	3.849	84	164554	9.773	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	199970	9.802	ppbv	99
32) 1,1,1-Trichloroethane	3.360	97	293074	9.172	ppbv	100
34) 2-Butanone	2.551	43	294837	9.869	ppbv	99
35) Carbon Tetrachloride	3.755	117	310129	9.900	ppbv	96
36) Benzene	3.648	78	393085	9.834	ppbv	99
37) 1,2-Dichloroethane	3.211	62	238249	9.895	ppbv	100
38) Trichloroethene	4.538	130	178600	9.301	ppbv	97
39) 1,2-Dichloropropane	4.305	63	141316	9.578	ppbv	95
40) 1,4-Dioxane	4.570	88	65204	9.481	ppbv #	94
41) Tetrahydrofuran	3.046	42	158159	10.404	ppbv	99
42) Bromodichloromethane	4.477	83	321549	10.254	ppbv	98
43) Methyl Methacrylate	4.865	69	152551	10.738	ppbv	97
44) 2,2,4-Trimethylpentane	4.629	57	649720	9.973	ppbv	99
45) t-1,3-Dichloropropene	6.402	75	169563	10.643	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

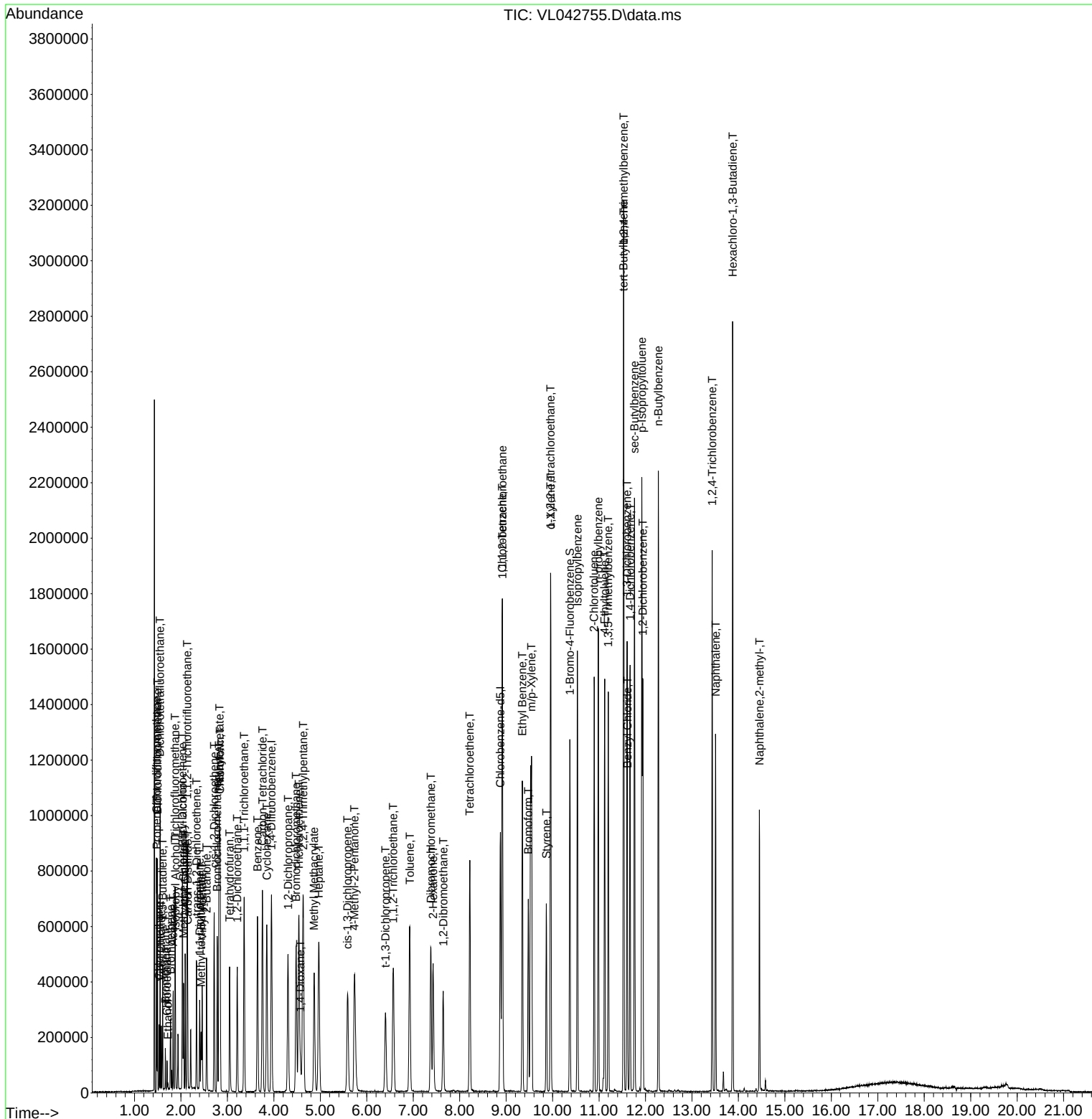
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

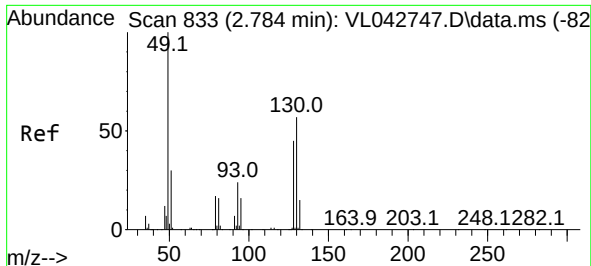
Quant Time: Jul 24 05:28:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	215596	10.679	ppbv	97
47) 1,1,2-Trichloroethane	6.571	97	85637	5.445	ppbv	97
48) Dibromochloromethane	7.380	129	261174	10.460	ppbv	98
49) Bromoform	9.477	173	233573	10.729	ppbv	99
50) 4-Methyl-2-Pentanone	5.736	43	396506	10.303	ppbv	100
51) 2-Hexanone	7.428	43	320740	11.029	ppbv #	100
52) Tetrachloroethene	8.218	164	151810	9.163	ppbv	98
53) Toluene	6.927	91	441829	10.294	ppbv	100
54) 1,2-Dibromoethane	7.645	107	229563	10.331	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.920	131	193089	9.759	ppbv	99
57) Chlorobenzene	8.914	112	354412	9.623	ppbv	96
58) Ethyl Benzene	9.348	91	631247	10.504	ppbv	99
59) m/p-Xylene	9.545	91	500367	10.418	ppbv #	32
60) o-Xylene	9.959	91	503849	10.499	ppbv	99
61) Styrene	9.866	104	225799	11.185	ppbv	99
62) Isopropylbenzene	10.536	105	736044	10.398	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.956	83	287775	9.340	ppbv	99
64) n-propylbenzene	10.982	120	193034	10.460	ppbv	98
65) tert-Butylbenzene	11.526	119	660966	10.512	ppbv	99
66) Benzyl Chloride	11.610	91	60055	11.634	ppbv	99
67) sec-Butylbenzene	11.762	105	914046	10.221	ppbv	100
69) p-Isopropyltoluene	11.921	119	778601	10.677	ppbv	99
70) n-Butylbenzene	12.277	91	788734	11.197	ppbv	99
71) 2-Chlorotoluene	10.895	91	563193	10.376	ppbv	99
72) 4-Ethyltoluene	11.121	105	617355	10.772	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	516735	10.951	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	567186	11.017	ppbv	98
75) 1,3-Dichlorobenzene	11.604	146	366855	10.165	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	364937	10.333	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	348999	9.839	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	291861	9.091	ppbv	99
79) Naphthalene	13.510	128	578563	10.342	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	277798	9.951	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	319897	10.181	ppbv	100

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

Quant Time: Jul 24 05:28:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

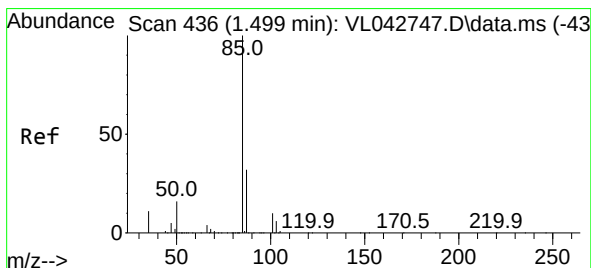
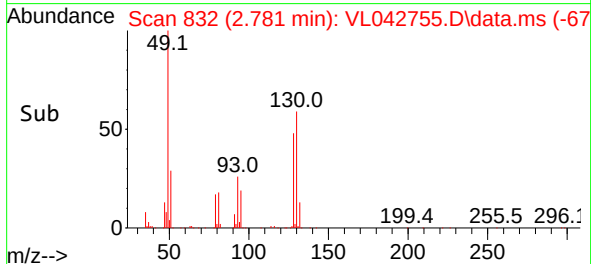
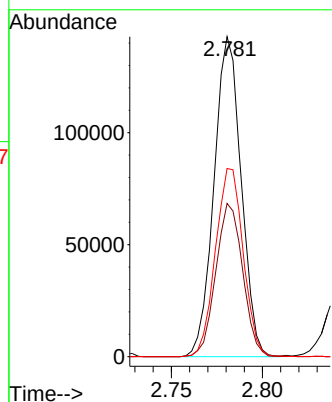
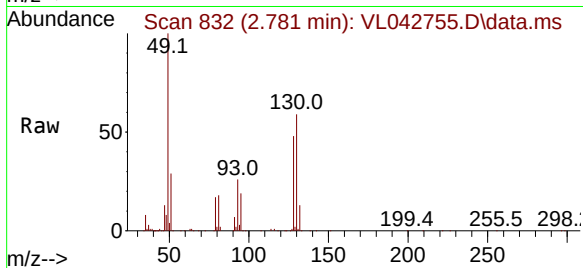




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

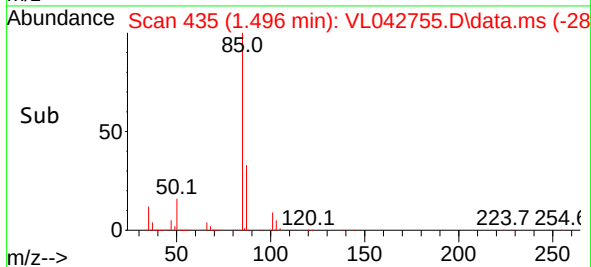
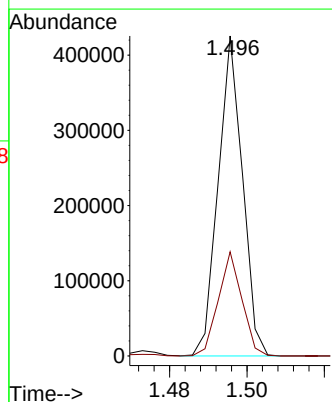
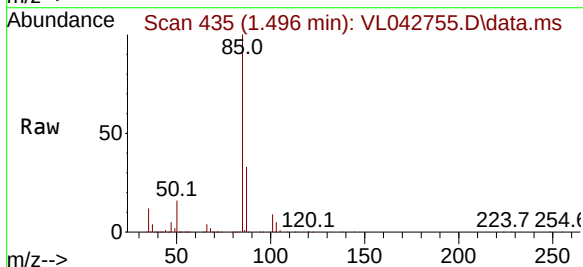
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

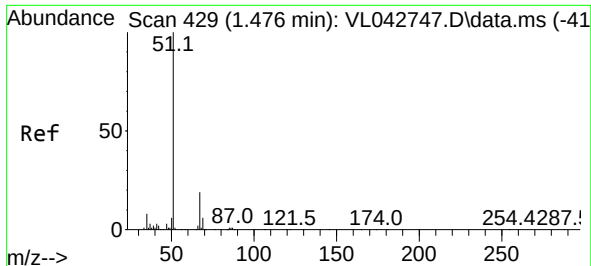
Tgt Ion: 49 Resp: 148064
Ion Ratio Lower Upper
49 100
128 47.4 23.6 71.0
130 60.2 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 9.472 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 85 Resp: 185425
Ion Ratio Lower Upper
85 100
87 32.6 25.4 38.2

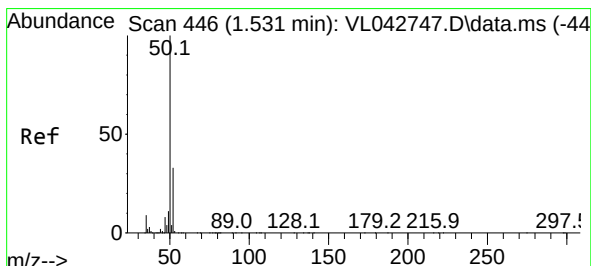
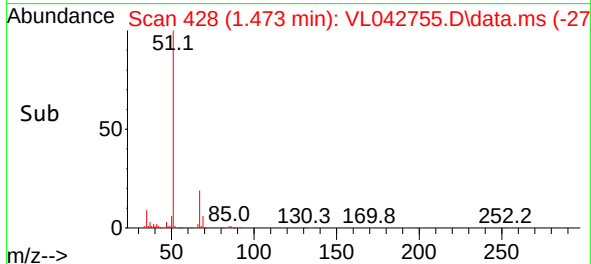
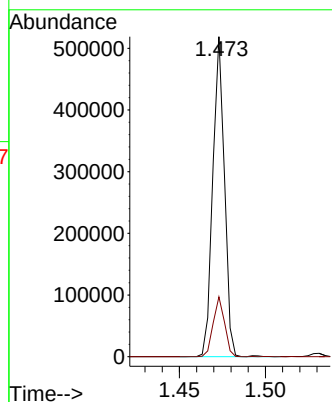
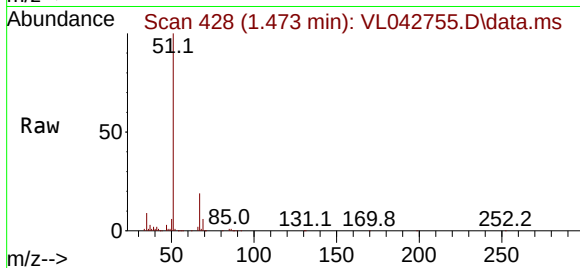




#3
Chlorodifluoromethane
Concen: 9.525 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

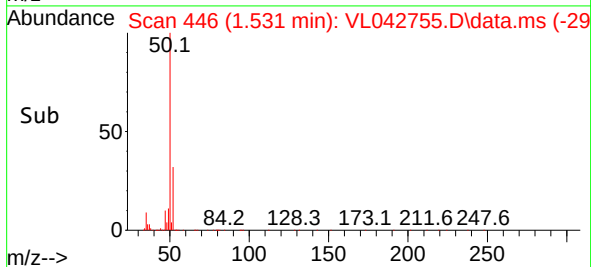
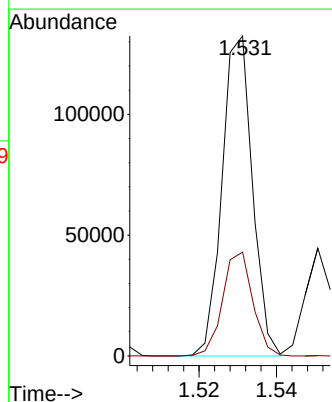
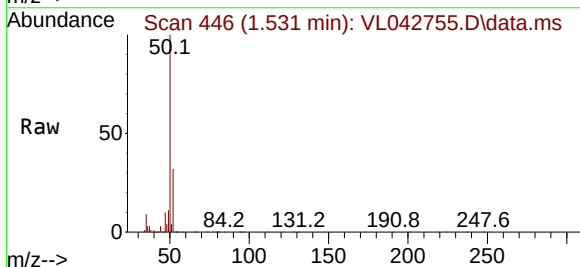
Instrument :
MSVOA_1
ClientSampleId :
ICVVL072325

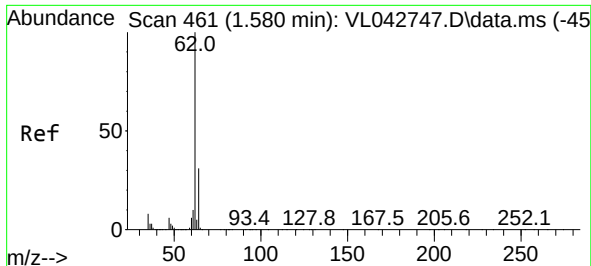
Tgt Ion: 51 Resp: 242908
Ion Ratio Lower Upper
51 100
67 18.4 15.0 22.6



#4
Chloromethane
Concen: 9.119 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 50 Resp: 72221
Ion Ratio Lower Upper
50 100
52 32.4 26.6 40.0

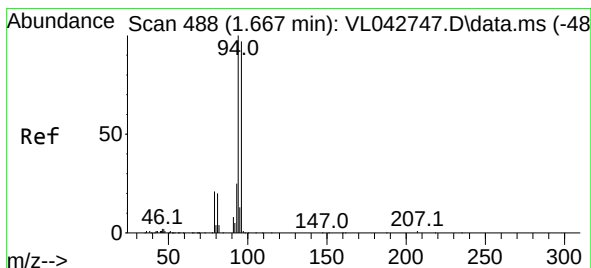
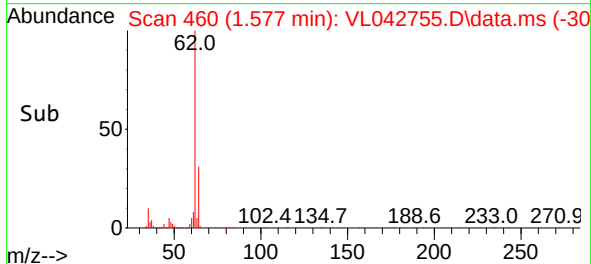
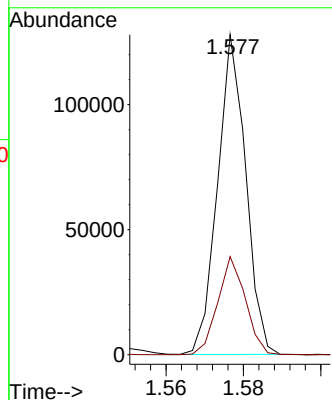
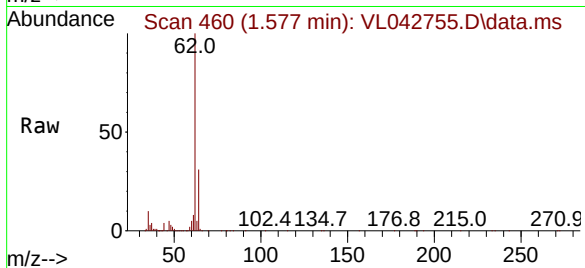




#5
 Vinyl Chloride
 Concen: 8.265 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

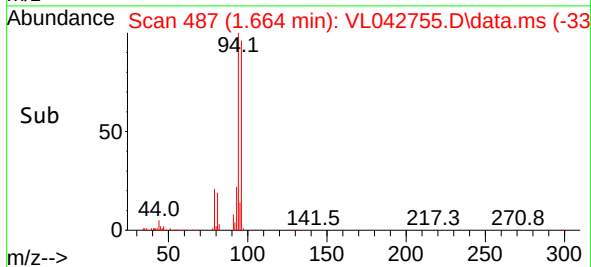
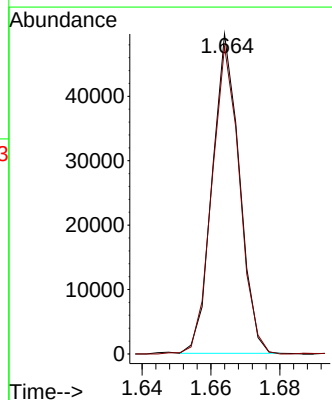
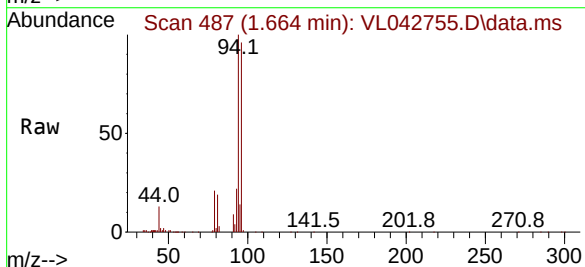
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL072325

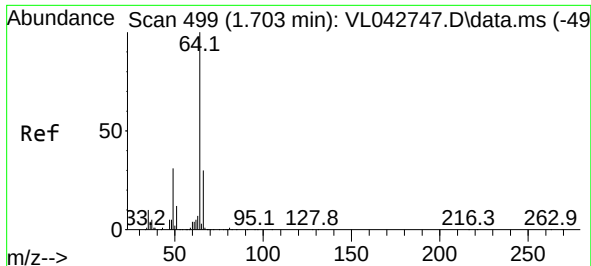
Tgt Ion: 62 Resp: 64673
 Ion Ratio Lower Upper
 62 100
 64 30.7 24.5 36.7



#6
 Bromomethane
 Concen: 8.957 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion: 94 Resp: 27096
 Ion Ratio Lower Upper
 94 100
 96 96.3 77.6 116.4

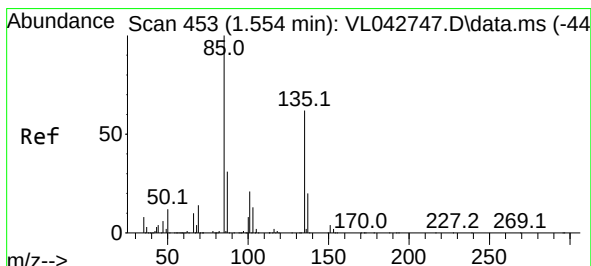
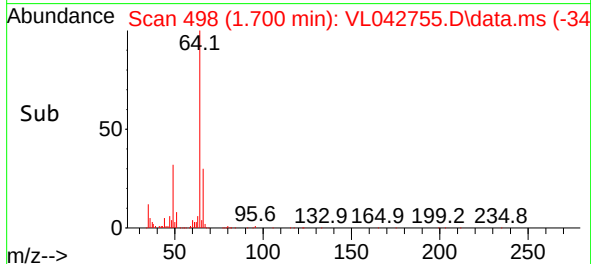
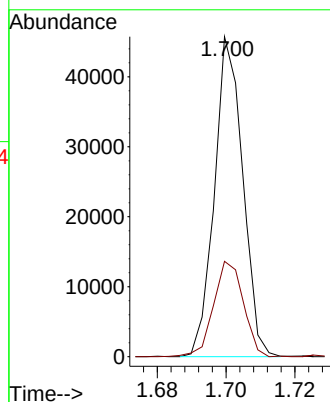
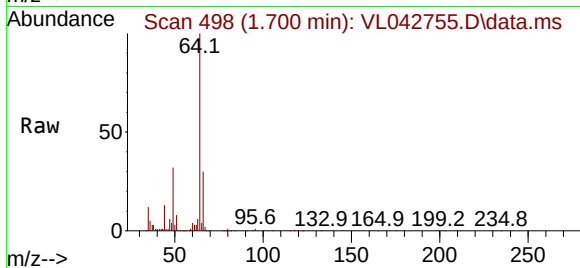




#7
Chloroethane
Concen: 8.641 ppbv
RT: 1.700 min Scan# 499
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

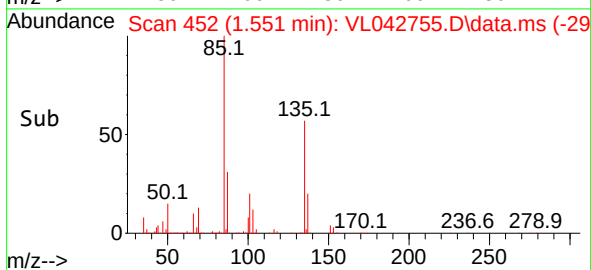
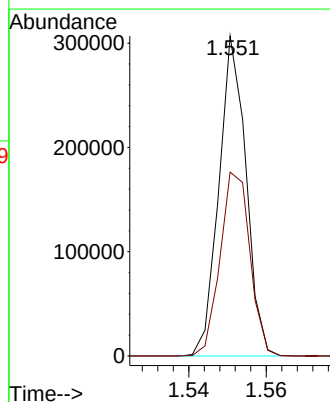
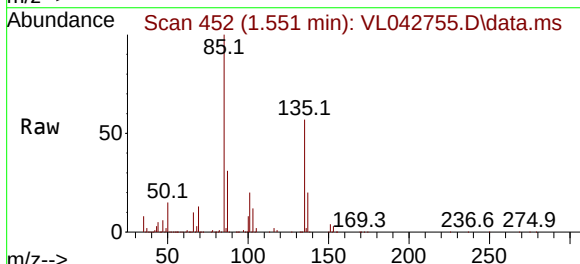
Instrument : MSVOA_1
ClientSampleId : ICVVL072325

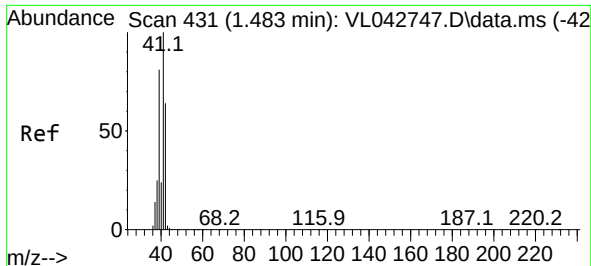
Tgt Ion: 64 Resp: 26125
Ion Ratio Lower Upper
64 100
66 29.8 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 9.244 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 85 Resp: 148833
Ion Ratio Lower Upper
85 100
135 63.6 50.6 76.0





#9

Propene

Concen: 9.316 ppbv

RT: 1.479 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

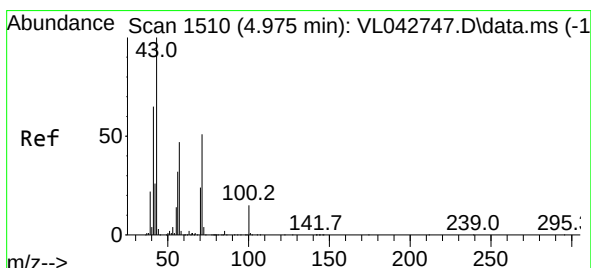
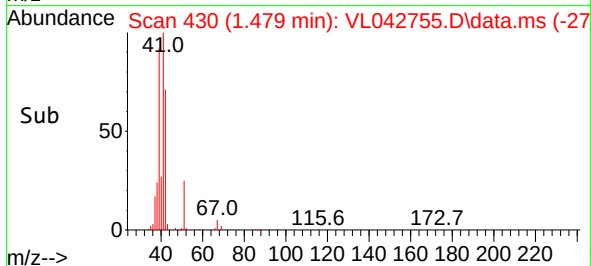
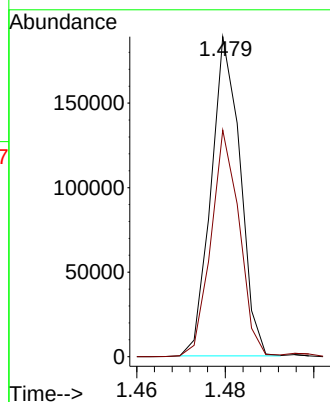
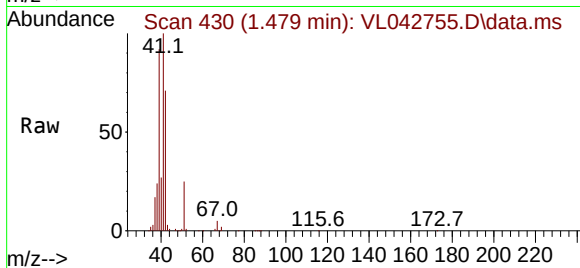
ICVVL072325

Tgt Ion: 41 Resp: 86343

Ion Ratio Lower Upper

41 100

42 70.7 53.2 79.8



#10

Heptane

Concen: 9.921 ppbv

RT: 4.965 min Scan# 1507

Delta R.T. -0.010 min

Lab File: VL042755.D

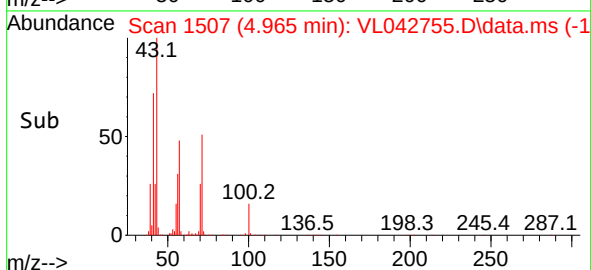
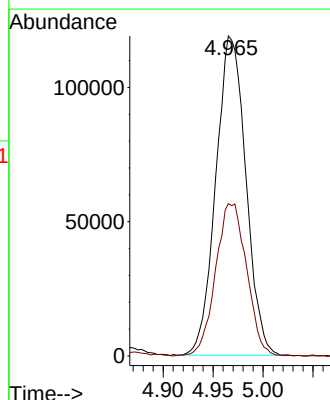
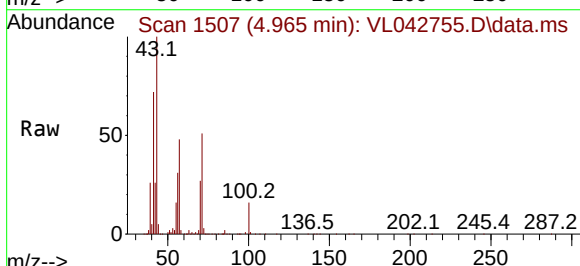
Acq: 23 Jul 2025 14:33

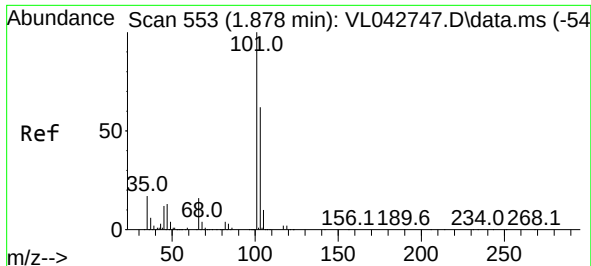
Tgt Ion: 43 Resp: 247934

Ion Ratio Lower Upper

43 100

57 49.5 39.9 59.9

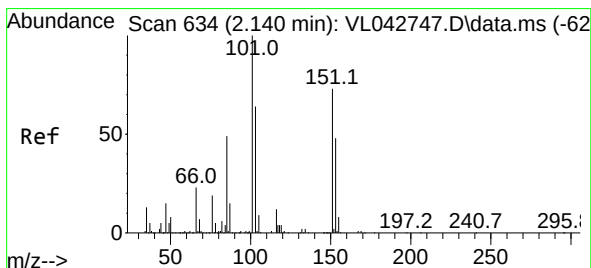
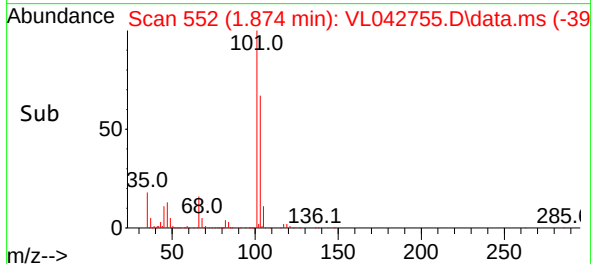
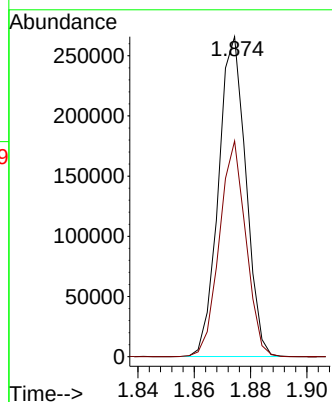
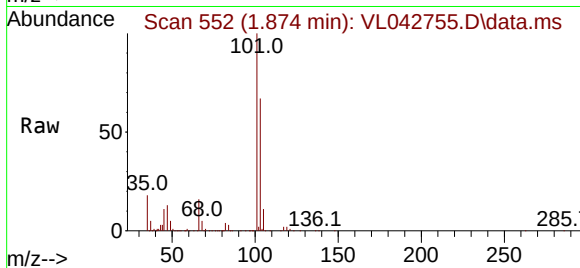




#11
 Trichlorofluoromethane
 Concen: 8.902 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

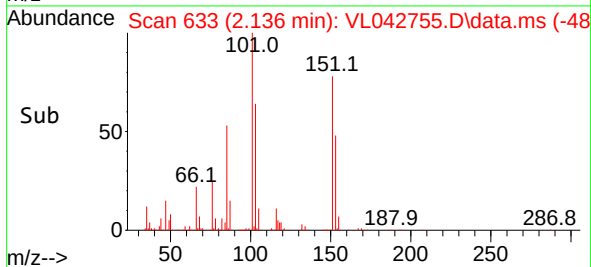
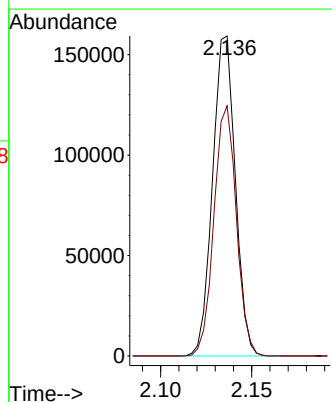
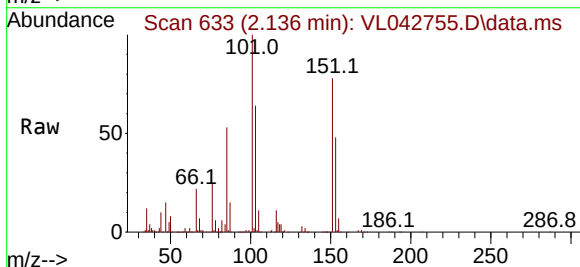
Instrument :
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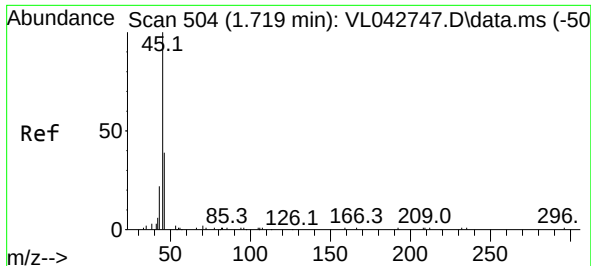
Tgt Ion:101 Resp: 179643
 Ion Ratio Lower Upper
 101 100
 103 67.4 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.023 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion:101 Resp: 138363
 Ion Ratio Lower Upper
 101 100
 151 76.9 60.5 90.7

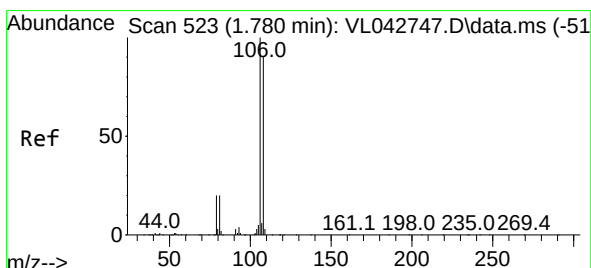
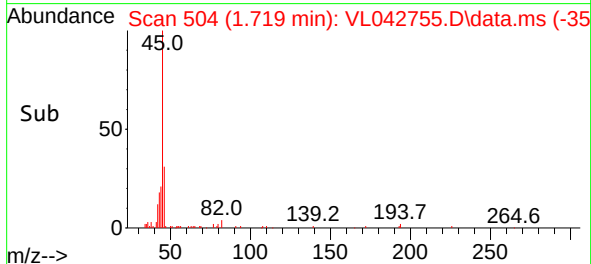
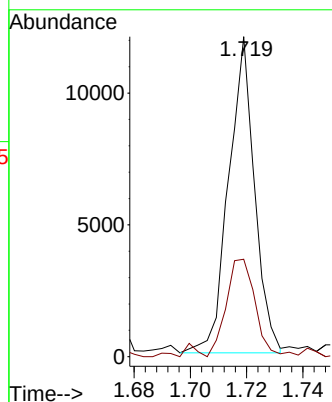
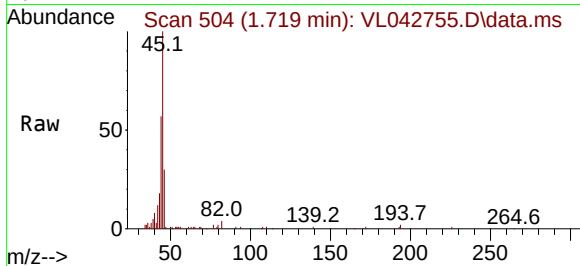




#13
Ethanol
Concen: 10.243 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

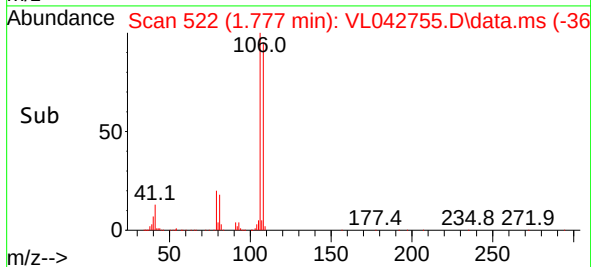
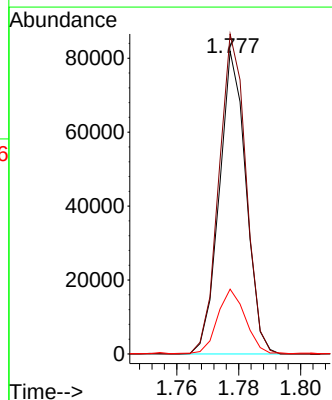
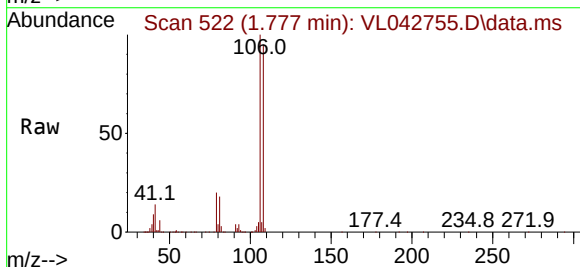
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

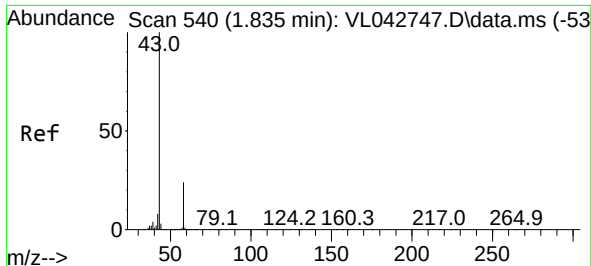
Tgt Ion: 45 Resp: 7690
Ion Ratio Lower Upper
45 100
46 39.7 17.8 71.4



#14
Bromoethene
Concen: 9.020 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 108 Resp: 48972
Ion Ratio Lower Upper
108 100
106 107.5 84.7 127.1
79 23.5 17.4 26.2

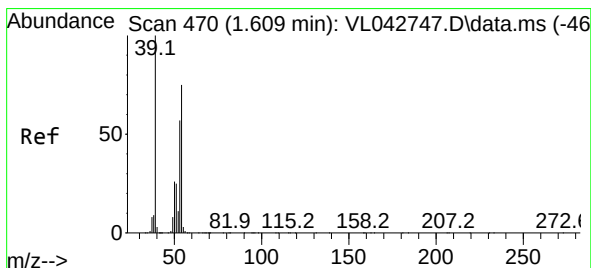
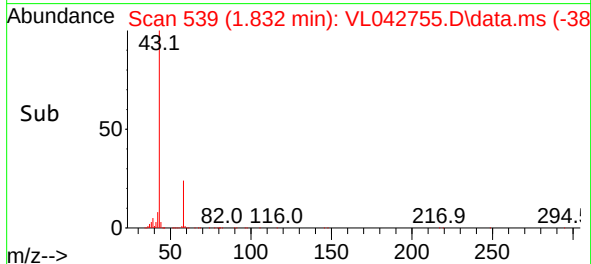
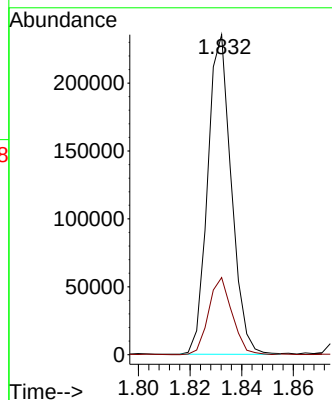
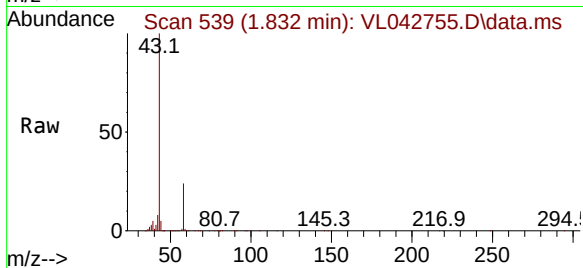




#15
Acetone
Concen: 7.324 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

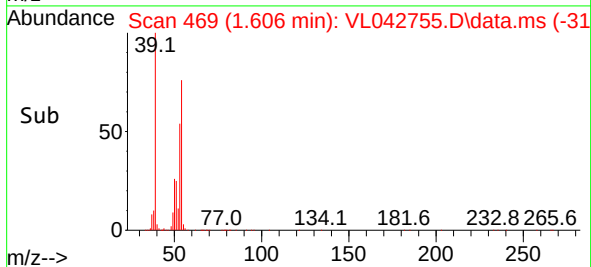
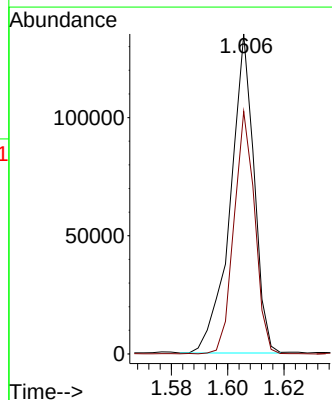
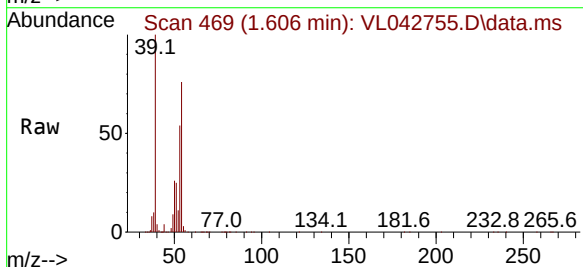
Instrument :
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ClientSampleId :
ICVVL072325

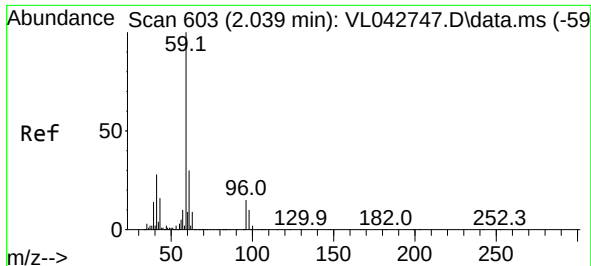
Tgt Ion: 43 Resp: 149742
Ion Ratio Lower Upper
43 100
58 24.2 19.8 29.8



#16
1,3-Butadiene
Concen: 9.072 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 39 Resp: 79112
Ion Ratio Lower Upper
39 100
54 66.6 54.5 81.7





#17

tert-Butyl alcohol

Concen: 9.225 ppbv

RT: 2.036 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

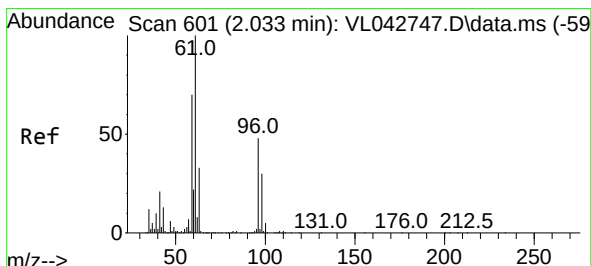
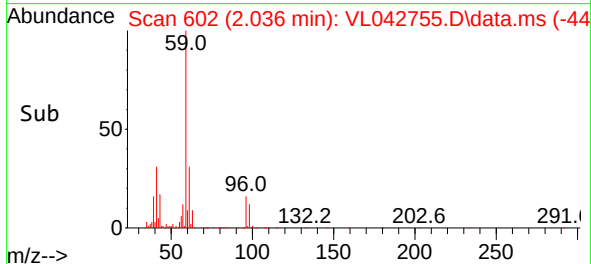
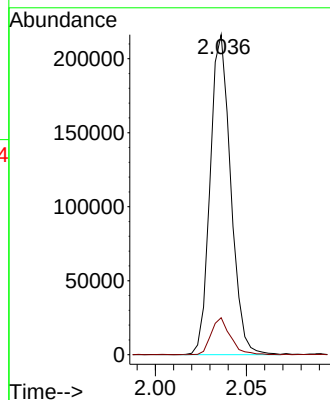
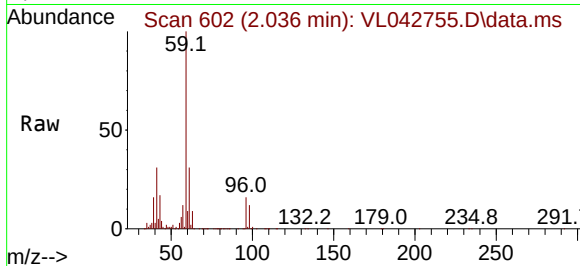
ICVVL072325

Tgt Ion: 59 Resp: 170096

Ion Ratio Lower Upper

59 100

57 11.0 8.3 12.5



#18

1,1-Dichloroethene

Concen: 8.970 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

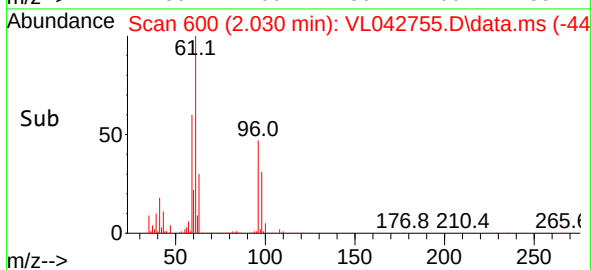
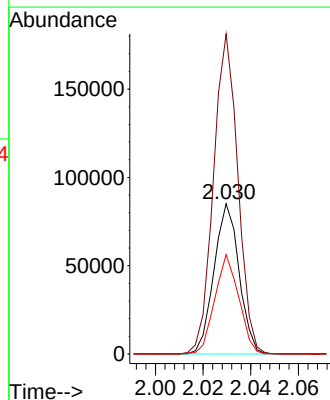
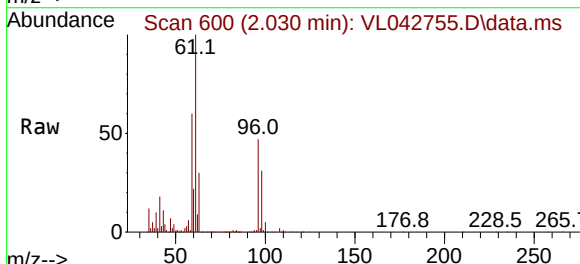
Tgt Ion: 96 Resp: 62149

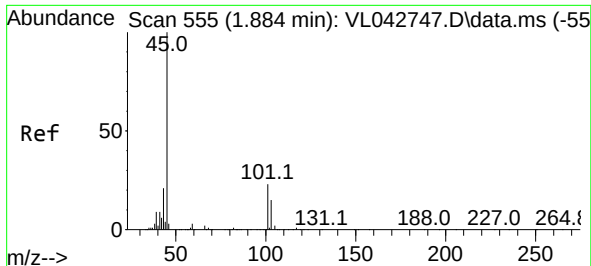
Ion Ratio Lower Upper

96 100

61 212.9 165.8 248.6

98 66.1 49.9 74.9

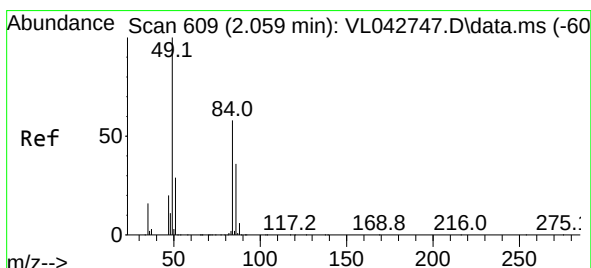
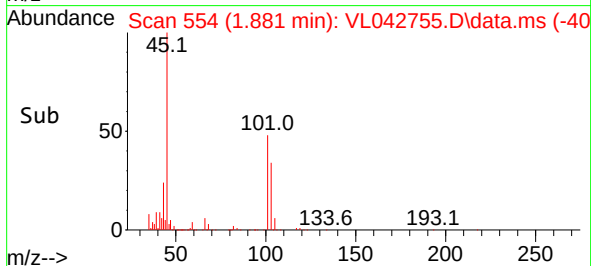
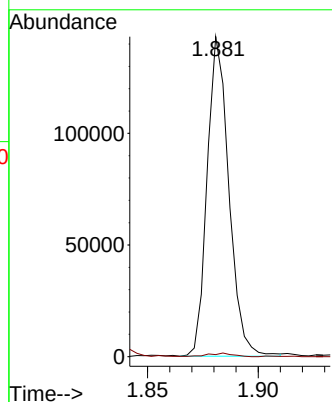
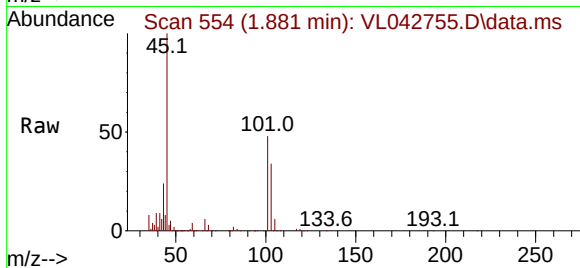




#19
Isopropyl Alcohol
Concen: 9.006 ppbv
RT: 1.881 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

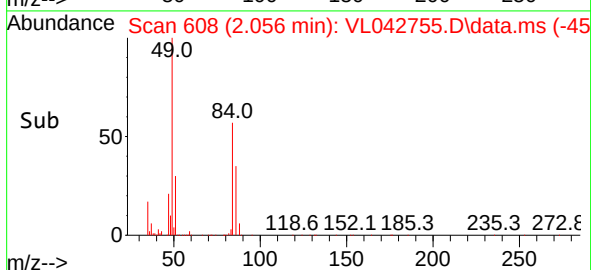
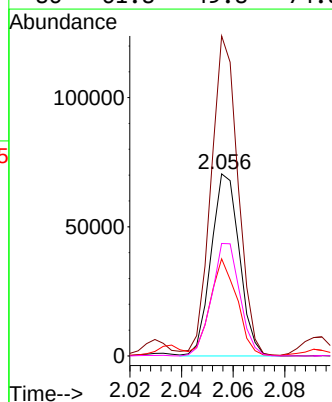
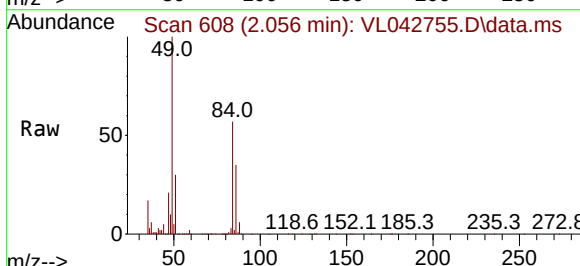
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

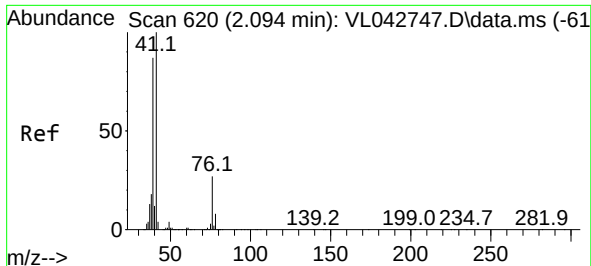
Tgt Ion: 45 Resp: 97844
Ion Ratio Lower Upper
45 100
58 37.1 30.0 45.0



#20
Methylene Chloride
Concen: 8.320 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 84 Resp: 53608
Ion Ratio Lower Upper
84 100
49 175.3 138.6 208.0
51 53.0 40.6 61.0
86 61.8 49.8 74.8

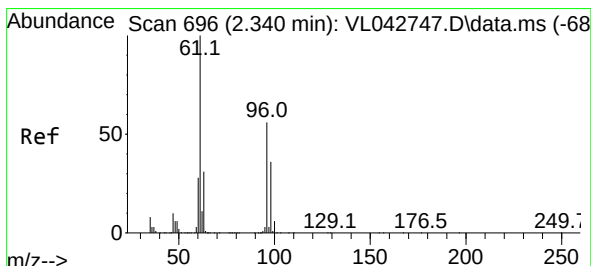
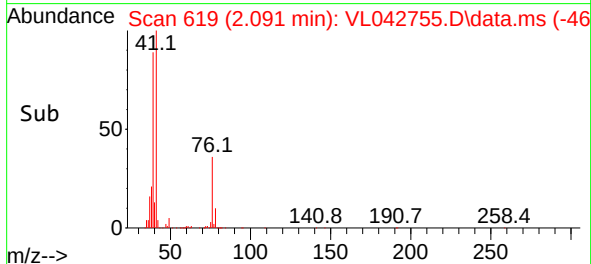
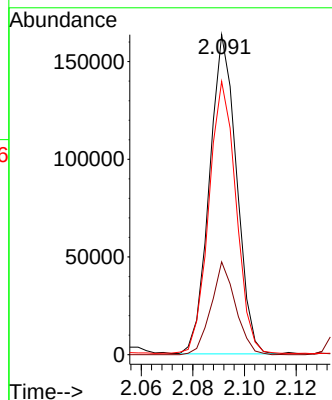
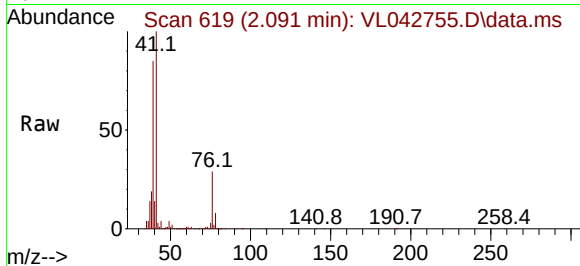




#21
 Allyl Chloride
 Concen: 9.441 ppbv
 RT: 2.091 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

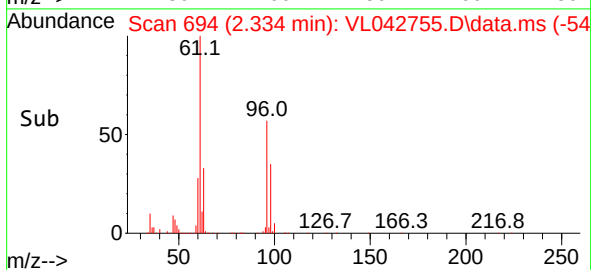
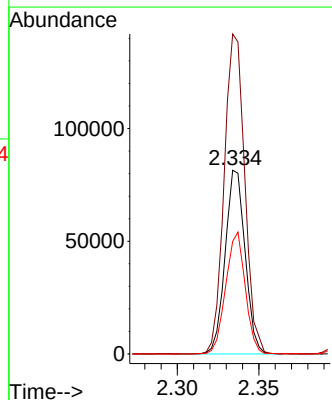
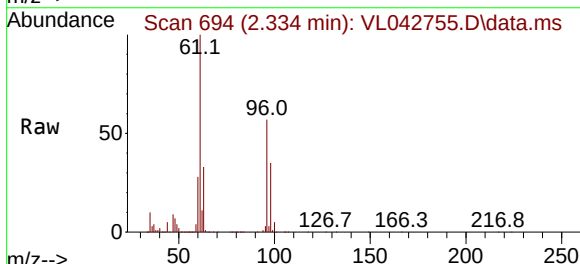
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

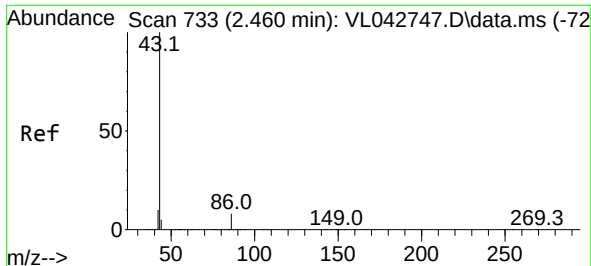
Tgt Ion: 41 Resp: 118958
 Ion Ratio Lower Upper
 41 100
 76 26.3 21.1 31.7
 39 85.9 68.3 102.5



#22
 trans-1,2-Dichloroethene
 Concen: 9.322 ppbv
 RT: 2.334 min Scan# 694
 Delta R.T. -0.006 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion: 96 Resp: 69482
 Ion Ratio Lower Upper
 96 100
 61 174.3 142.3 213.5
 98 61.3 50.6 76.0



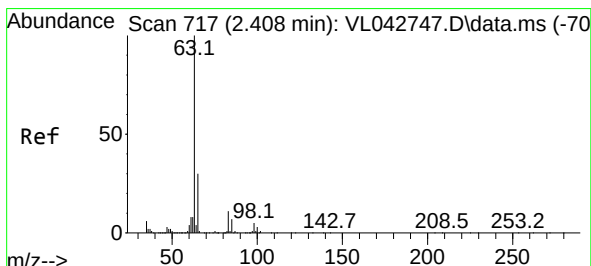
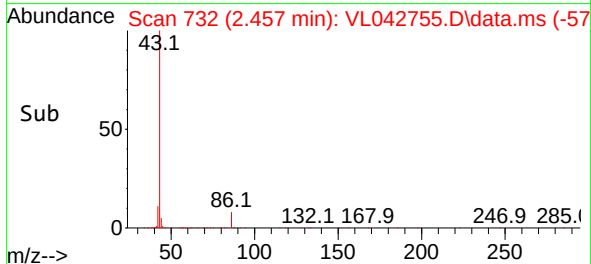
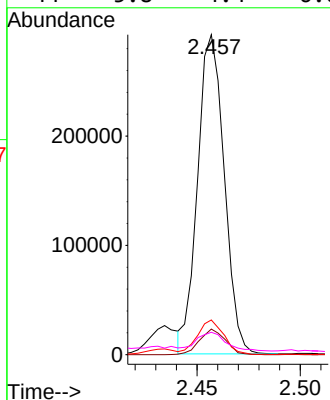
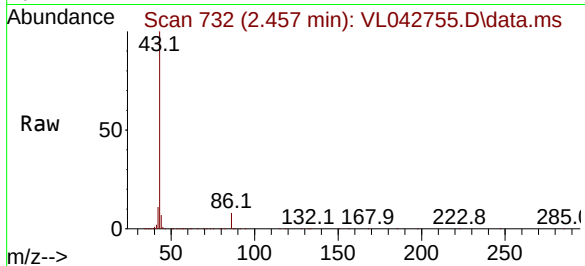


#23
 Vinyl Acetate
 Concen: 10.568 ppbv
 RT: 2.457 min Scan# 715
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL072325

Tgt Ion: 43 Resp: 261938

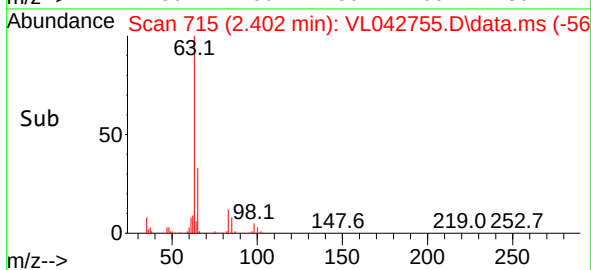
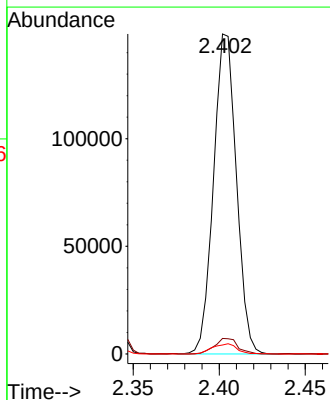
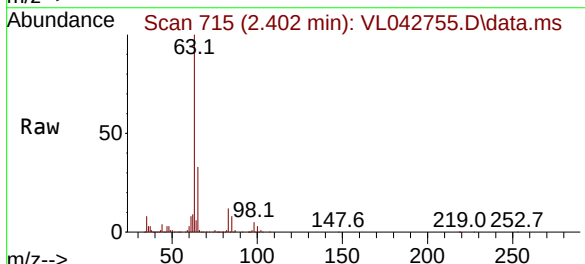
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.1	9.1
42	10.7	7.8	11.8
44	5.8	4.4	6.6

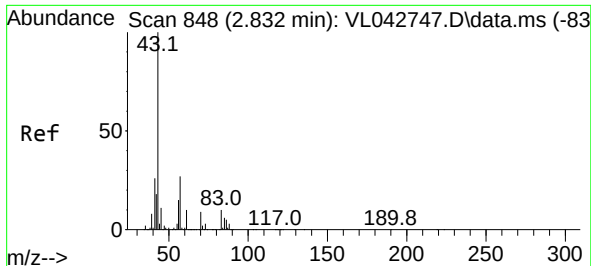


#24
 1,1-Dichloroethane
 Concen: 8.993 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. -0.006 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion: 63 Resp: 137586

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.5	7.4
100	2.8	1.6	4.8



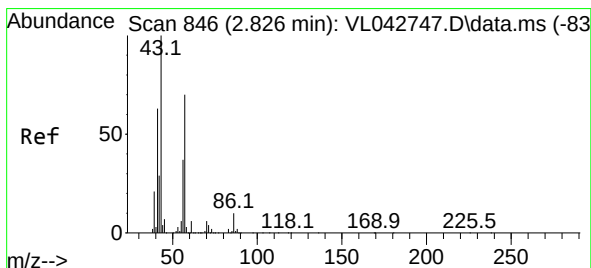
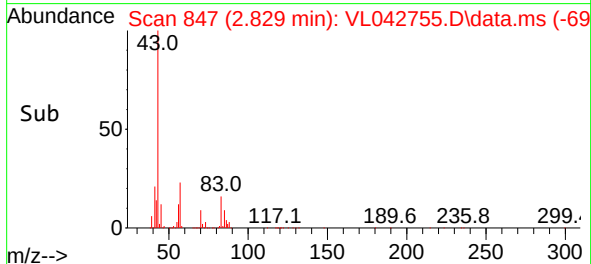
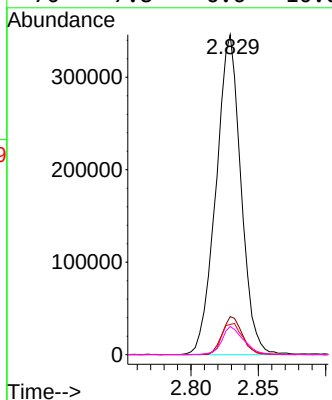
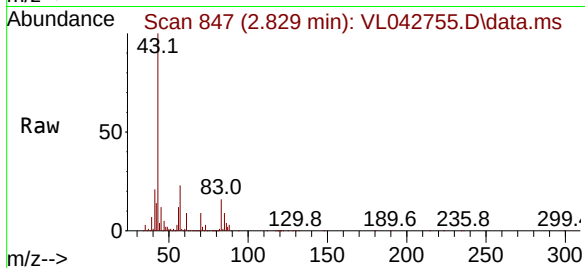


#25
Ethyl Acetate
Concen: 9.816 ppbv
RT: 2.829 min Scan# 844
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Tgt Ion: 43 Resp: 444208

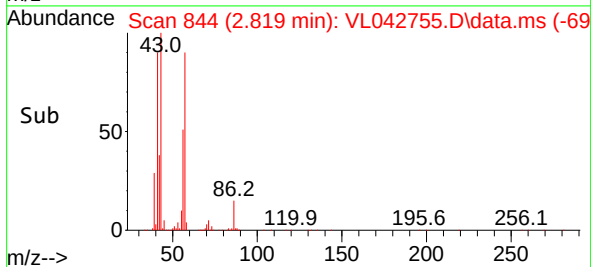
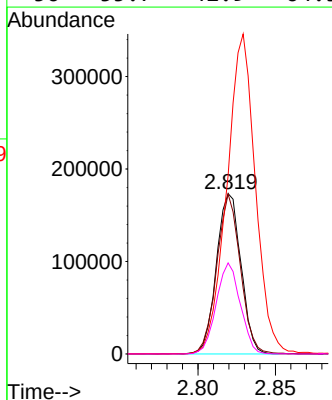
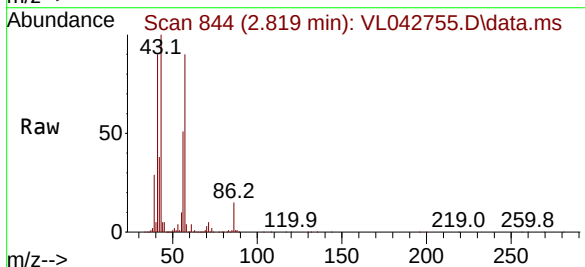
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	8.7	6.7	10.1
70	7.8	6.6	10.0

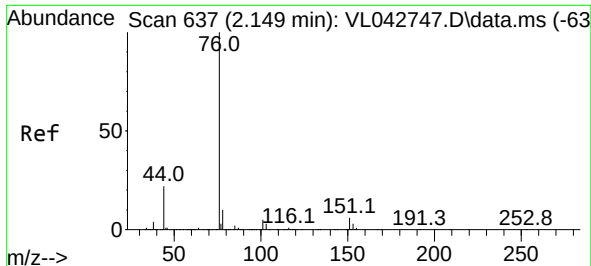


#26
Hexane
Concen: 9.597 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 57 Resp: 190523

Ion	Ratio	Lower	Upper
57	100		
41	96.3	75.4	113.2
43	234.2	185.0	277.6
56	55.7	42.9	64.3





#27

Carbon Disulfide

Concen: 9.652 ppbv

RT: 2.146 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

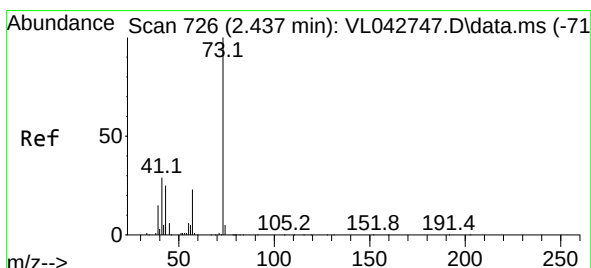
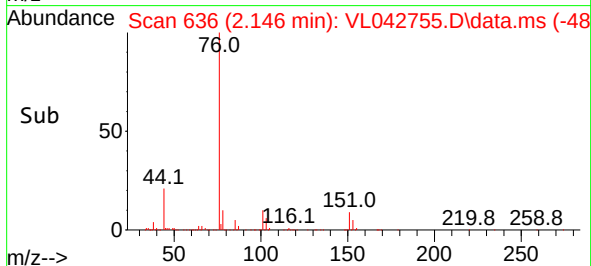
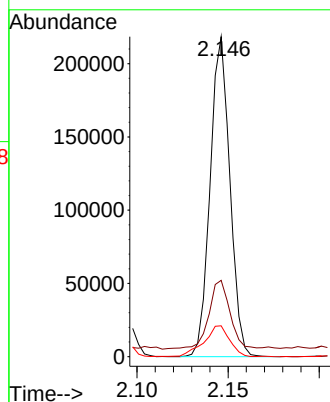
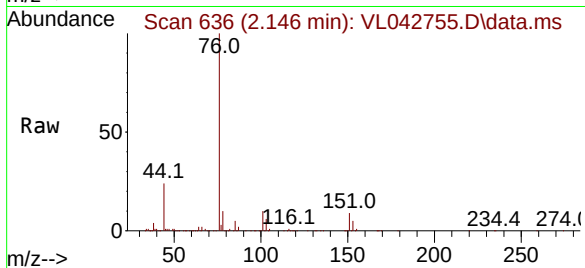
Tgt Ion: 76 Resp: 164040

Ion Ratio Lower Upper

76 100

44 23.7 19.3 28.9

78 12.7 9.9 14.9



#28

Methyl tert-Butyl Ether

Concen: 9.114 ppbv

RT: 2.434 min Scan# 725

Delta R.T. -0.003 min

Lab File: VL042755.D

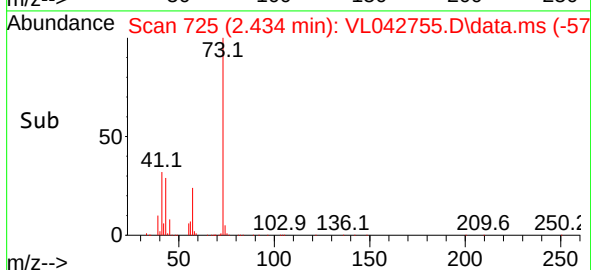
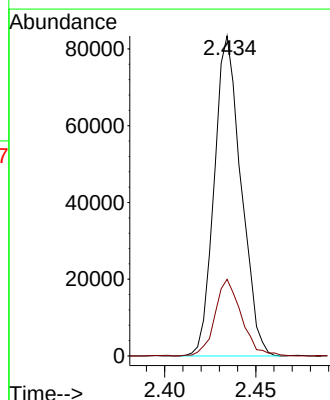
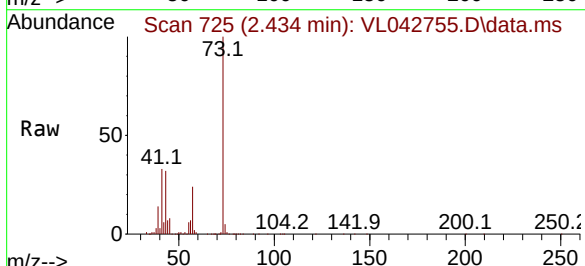
Acq: 23 Jul 2025 14:33

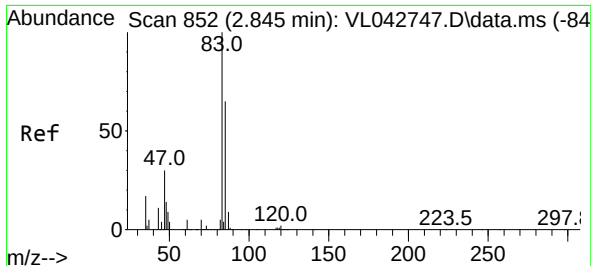
Tgt Ion: 73 Resp: 85480

Ion Ratio Lower Upper

73 100

57 23.8 19.8 29.8





#29

Chloroform

Concen: 9.643 ppbv

RT: 2.842 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

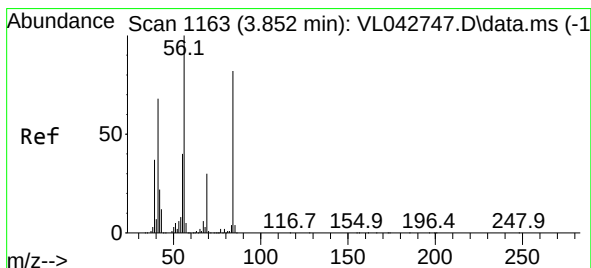
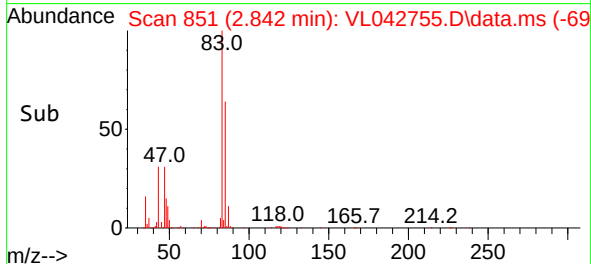
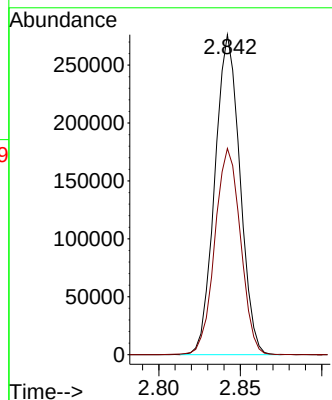
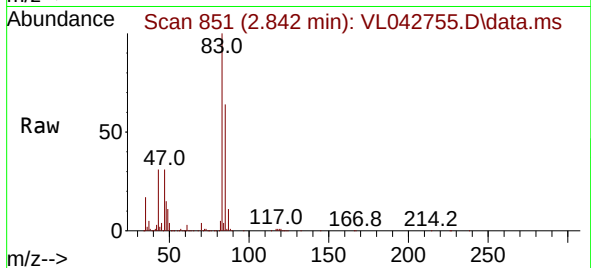
ICVVL072325

Tgt Ion: 83 Resp: 295808

Ion Ratio Lower Upper

83 100

85 64.4 52.2 78.2



#30

Cyclohexane

Concen: 9.773 ppbv

RT: 3.849 min Scan# 1162

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

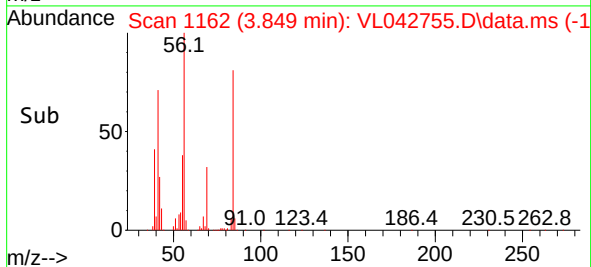
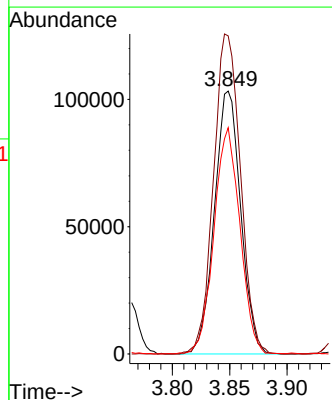
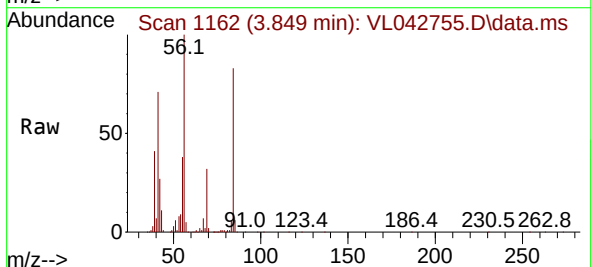
Tgt Ion: 84 Resp: 164554

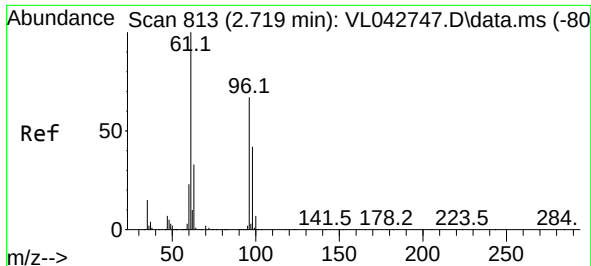
Ion Ratio Lower Upper

84 100

56 124.9 97.5 146.3

41 85.5 67.2 100.8

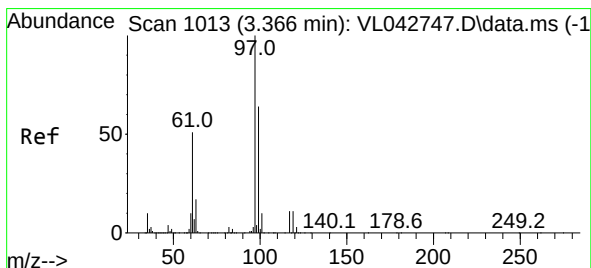
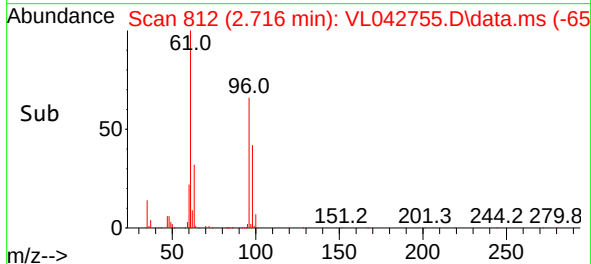
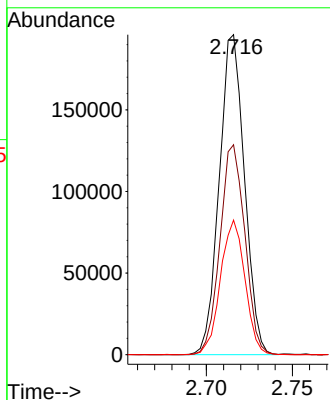
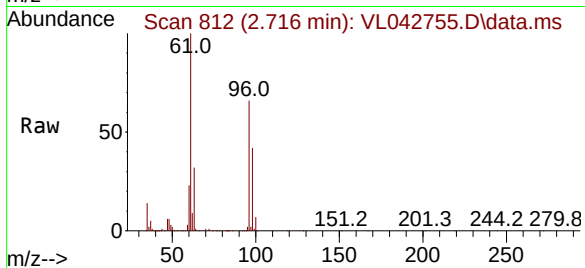




#31
 cis-1,2-Dichloroethene
 Concen: 9.802 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

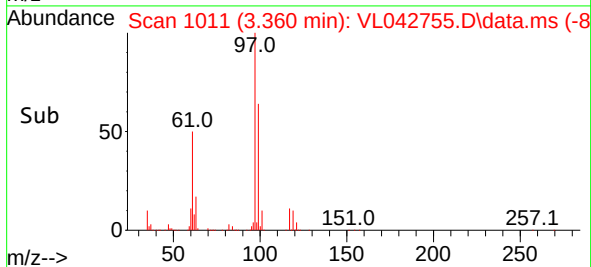
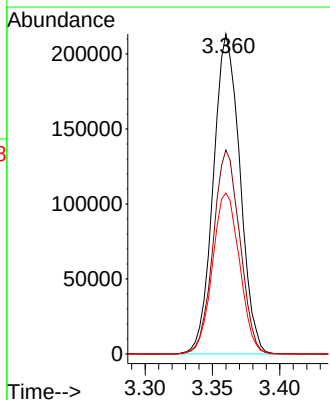
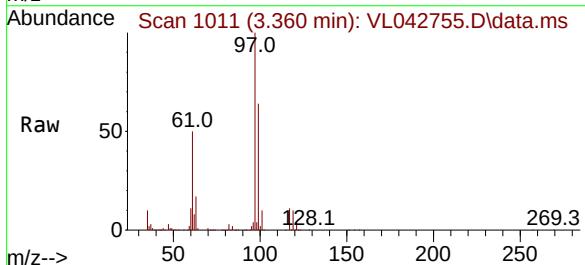
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

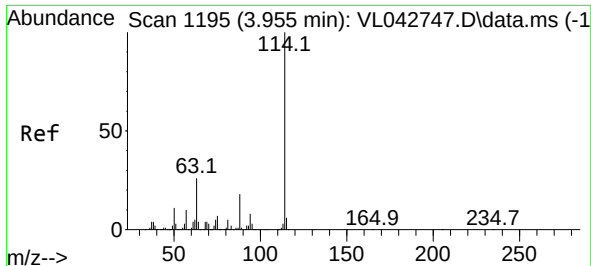
Tgt Ion: 61 Resp: 199970
 Ion Ratio Lower Upper
 61 100
 96 65.6 53.5 80.3
 98 42.1 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 9.172 ppbv
 RT: 3.360 min Scan# 1011
 Delta R.T. -0.006 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion: 97 Resp: 293074
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.6
 61 51.4 40.9 61.3

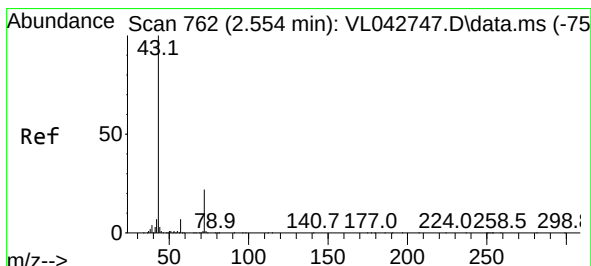
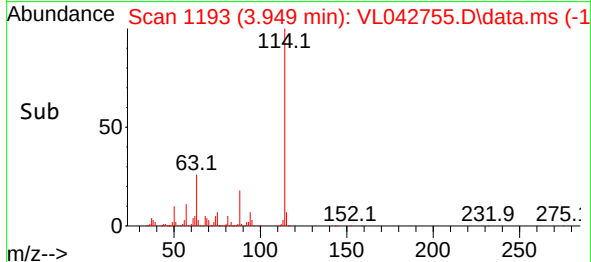
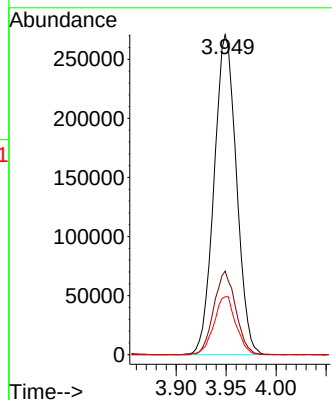
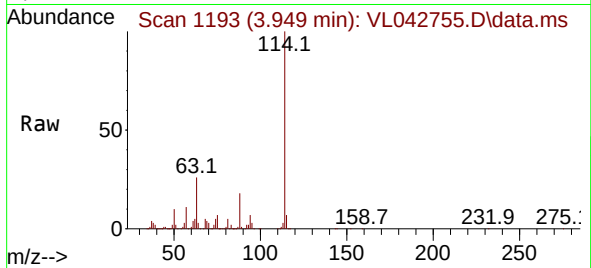




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.949 min Scan# 1193
 Delta R.T. -0.006 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

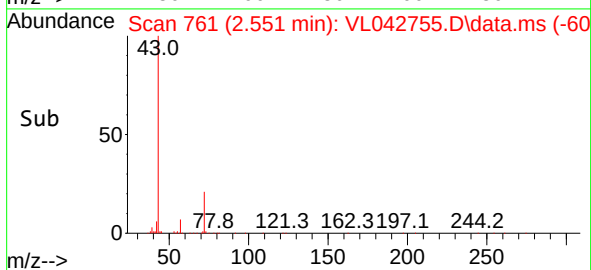
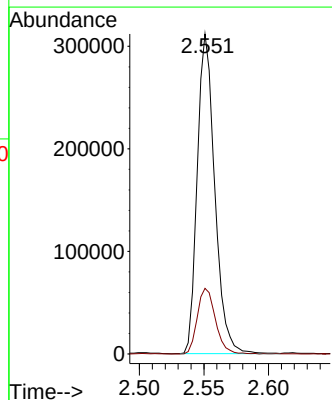
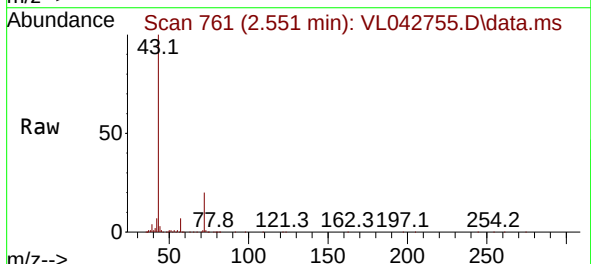
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

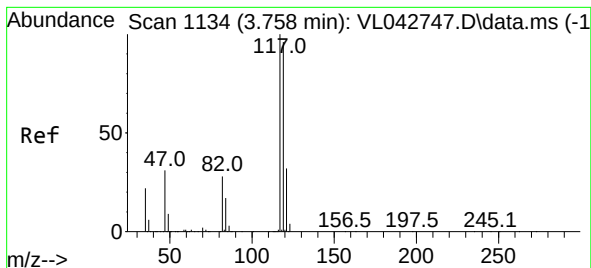
Tgt Ion:114 Resp: 421747
 Ion Ratio Lower Upper
 114 100
 63 25.6 20.5 30.7
 88 17.8 14.0 21.0



#34
 2-Butanone
 Concen: 9.869 ppbv
 RT: 2.551 min Scan# 761
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion: 43 Resp: 294837
 Ion Ratio Lower Upper
 43 100
 72 21.4 17.4 26.0





#35

Carbon Tetrachloride

Concen: 9.900 ppbv

RT: 3.755 min Scan# 1134

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

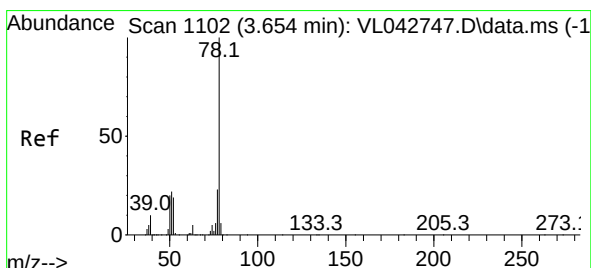
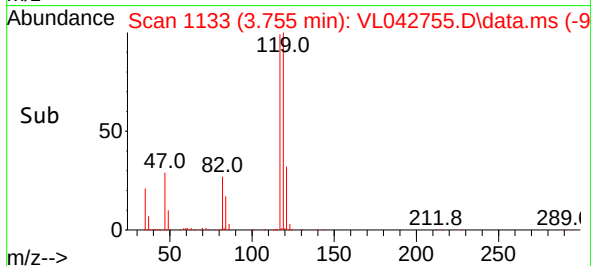
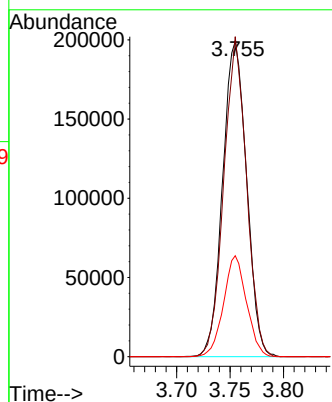
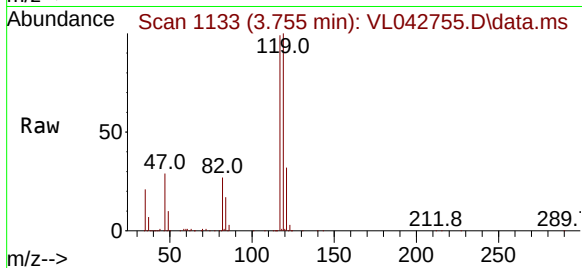
Tgt Ion:117 Resp: 310129

Ion Ratio Lower Upper

117 100

119 101.4 77.1 115.7

121 32.0 25.5 38.3



#36

Benzene

Concen: 9.834 ppbv

RT: 3.648 min Scan# 1100

Delta R.T. -0.006 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

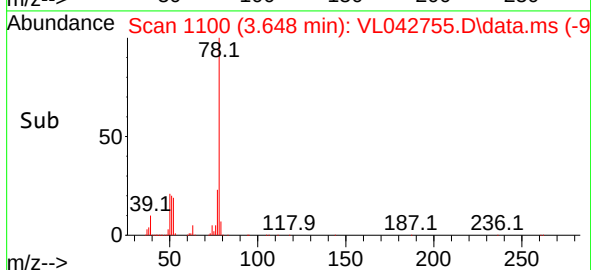
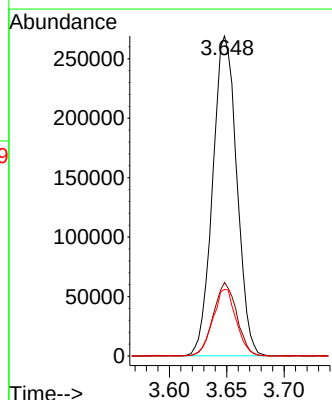
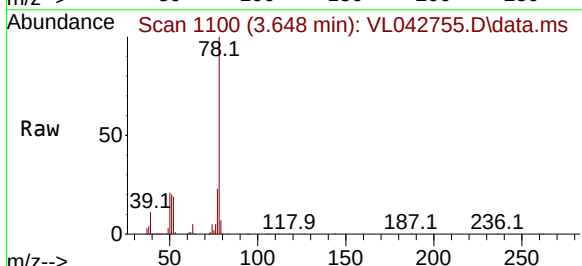
Tgt Ion: 78 Resp: 393085

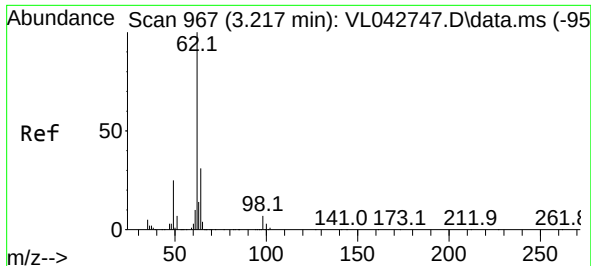
Ion Ratio Lower Upper

78 100

77 22.9 18.5 27.7

50 20.8 16.2 24.2





#37

1,2-Dichloroethane

Concen: 9.895 ppbv

RT: 3.211 min Scan# 9

Delta R.T. -0.006 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

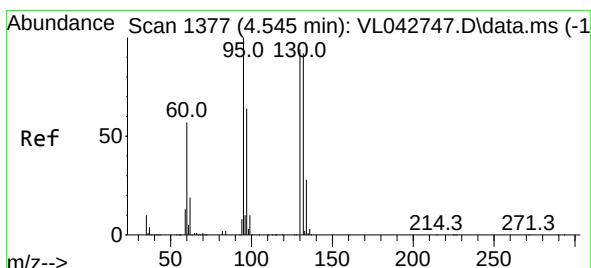
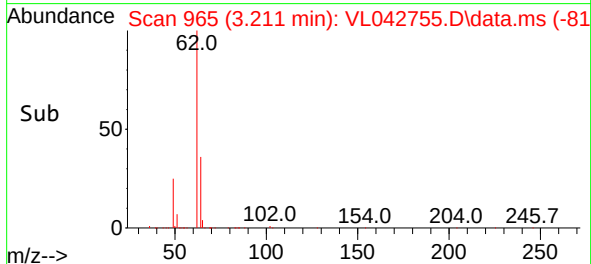
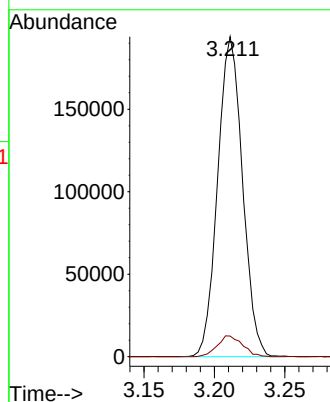
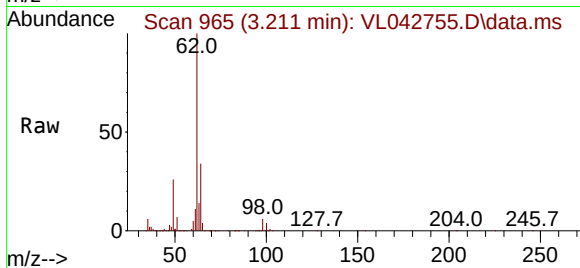
ICVVL072325

Tgt Ion: 62 Resp: 238249

Ion Ratio Lower Upper

62 100

98 6.6 5.2 7.8



#38

Trichloroethene

Concen: 9.301 ppbv

RT: 4.538 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Tgt Ion:130 Resp: 178600

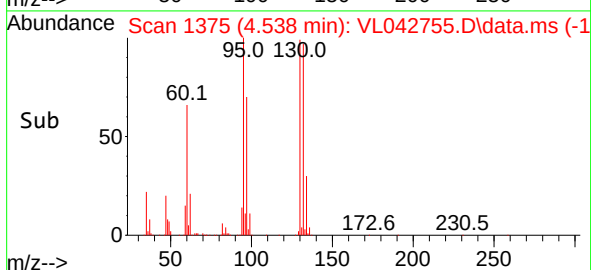
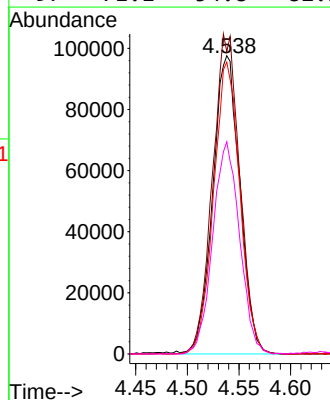
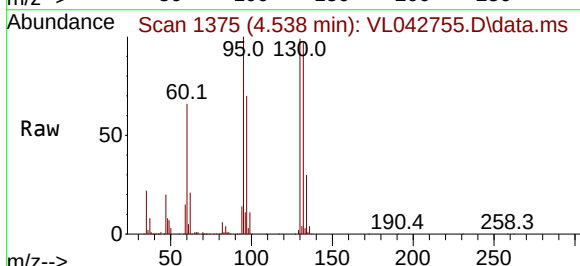
Ion Ratio Lower Upper

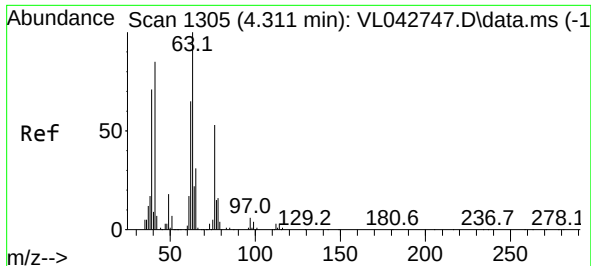
130 100

95 101.3 85.4 128.2

132 97.7 78.2 117.2

97 71.1 54.8 82.2





#39

1,2-Dichloropropane

Concen: 9.578 ppbv

RT: 4.305 min Scan# 1

Delta R.T. -0.006 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

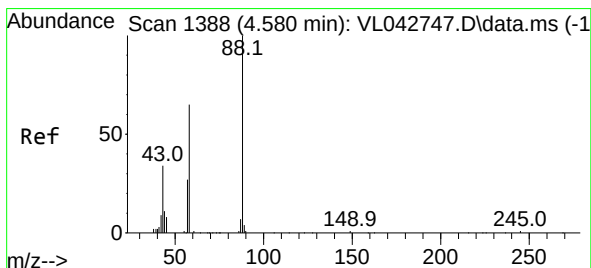
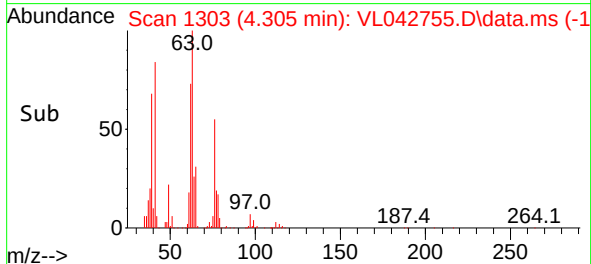
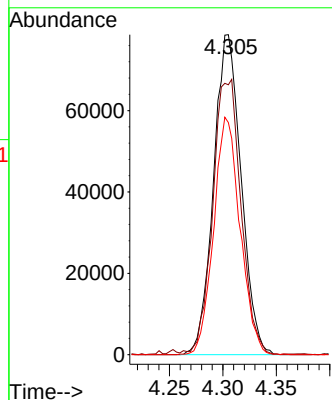
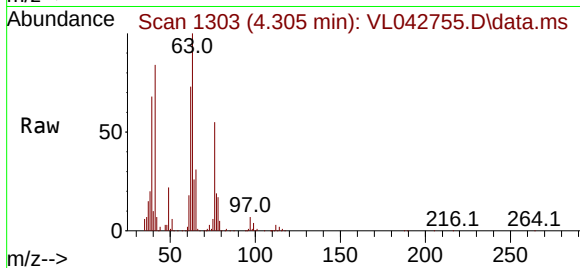
Tgt Ion: 63 Resp: 141316

Ion Ratio Lower Upper

63 100

41 84.3 68.2 102.4

62 72.5 52.0 78.0



#40

1,4-Dioxane

Concen: 9.481 ppbv

RT: 4.570 min Scan# 1385

Delta R.T. -0.010 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Tgt Ion: 88 Resp: 65204

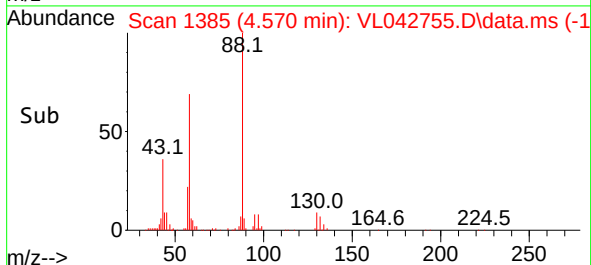
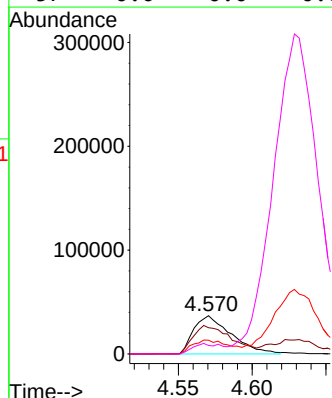
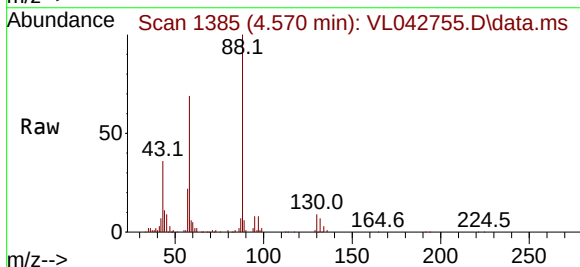
Ion Ratio Lower Upper

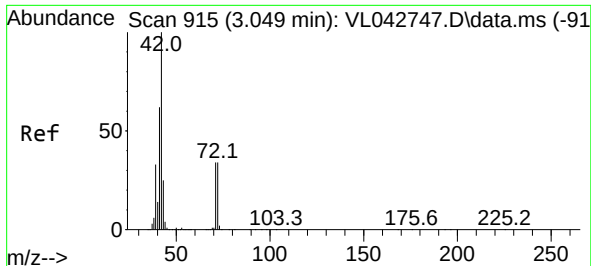
88 100

58 78.4 58.8 88.2

43 32.6 28.9 43.3

57 0.0 0.0 0.0

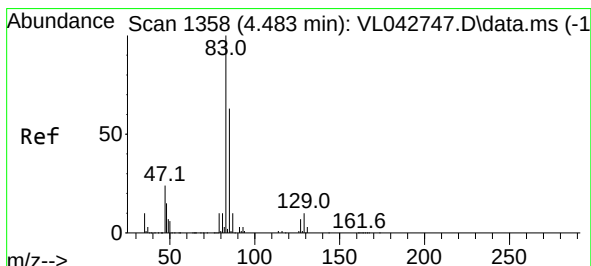
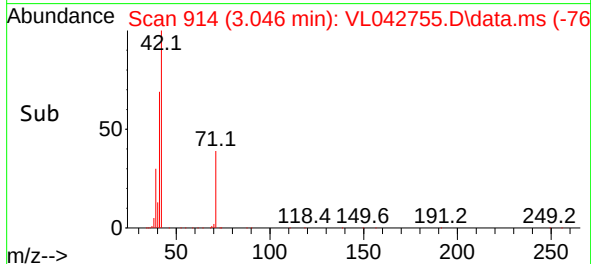
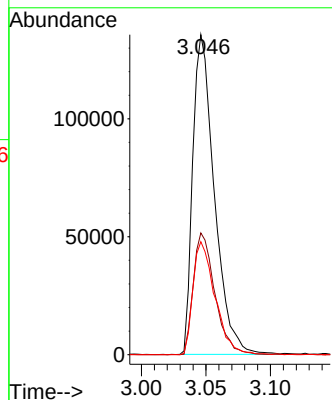
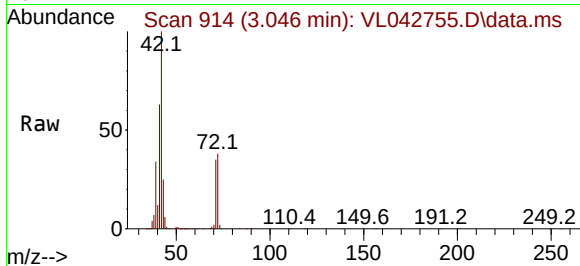




#41
Tetrahydrofuran
Concen: 10.404 ppbv
RT: 3.046 min Scan# 915
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

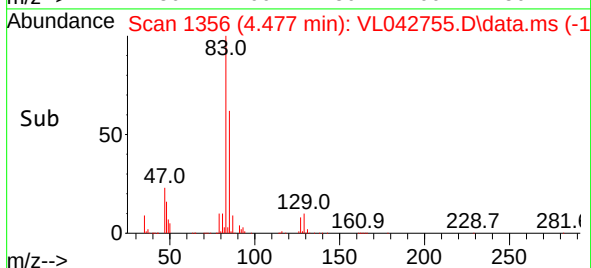
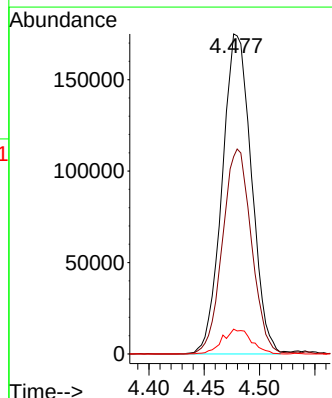
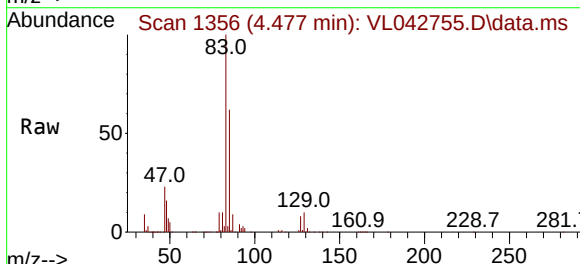
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

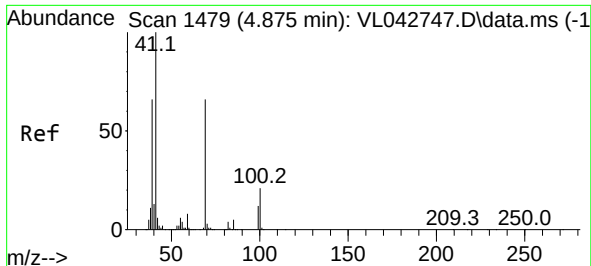
Tgt Ion: 42 Resp: 158159
Ion Ratio Lower Upper
42 100
72 38.2 30.9 46.3
71 36.2 28.6 43.0



#42
Bromodichloromethane
Concen: 10.254 ppbv
RT: 4.477 min Scan# 1356
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 83 Resp: 321549
Ion Ratio Lower Upper
83 100
85 61.6 50.2 75.4
127 7.7 5.4 8.2

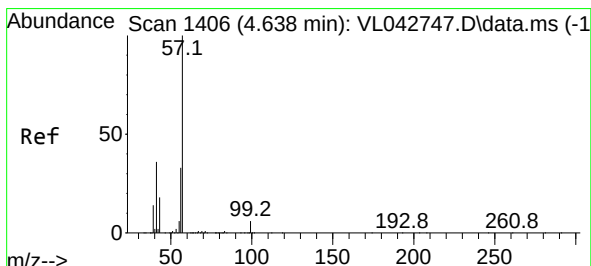
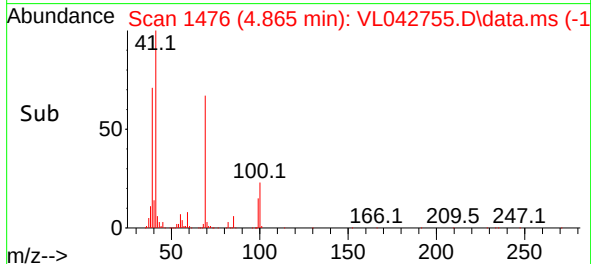
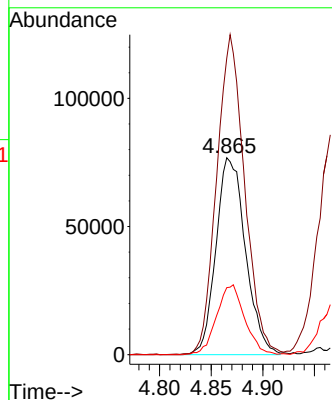
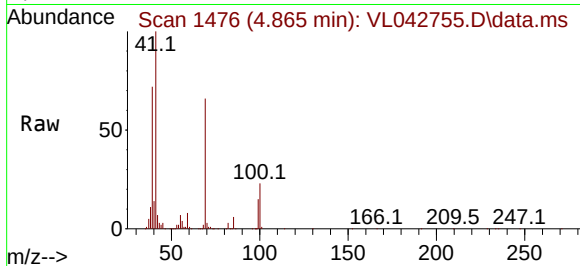




#43
Methyl Methacrylate
Concen: 10.738 ppbv
RT: 4.865 min Scan# 1479
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

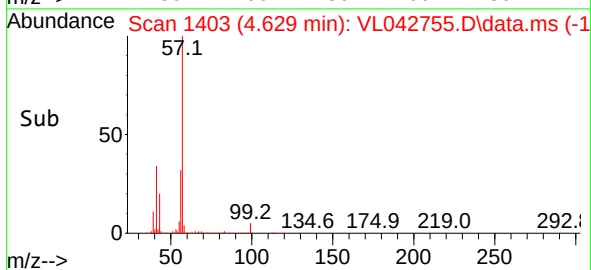
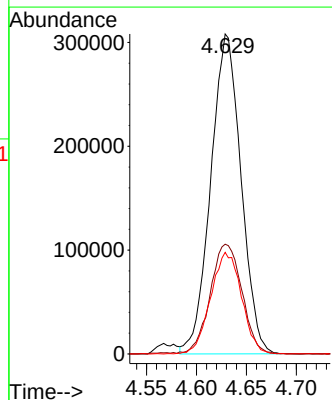
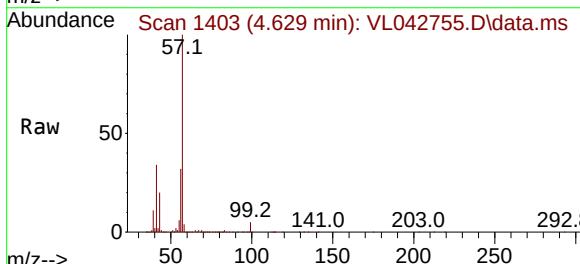
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

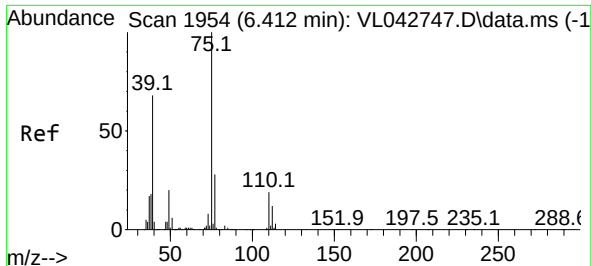
Tgt Ion: 69 Resp: 152551
Ion Ratio Lower Upper
69 100
41 153.9 125.7 188.5
100 33.9 28.6 42.8



#44
2,2,4-Trimethylpentane
Concen: 9.973 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 57 Resp: 649720
Ion Ratio Lower Upper
57 100
41 36.3 28.3 42.5
56 32.4 25.8 38.6

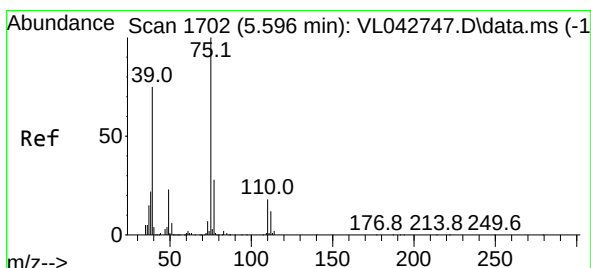
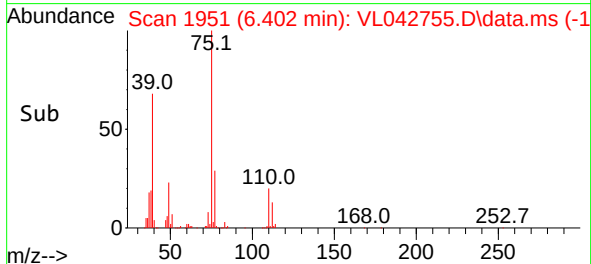
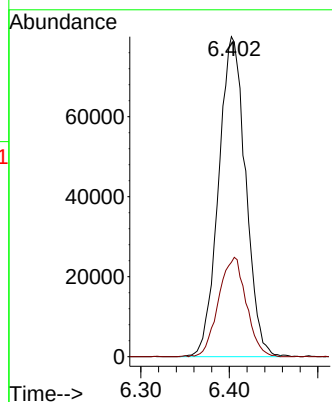
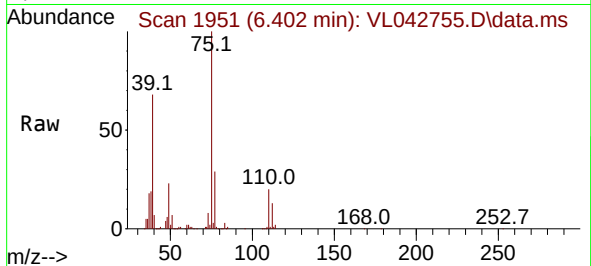




#45
 t-1,3-Dichloropropene
 Concen: 10.643 ppbv
 RT: 6.402 min Scan# 1954
 Delta R.T. -0.010 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

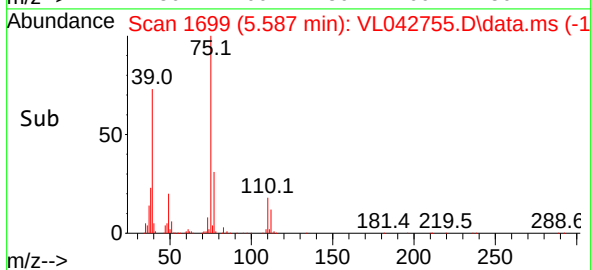
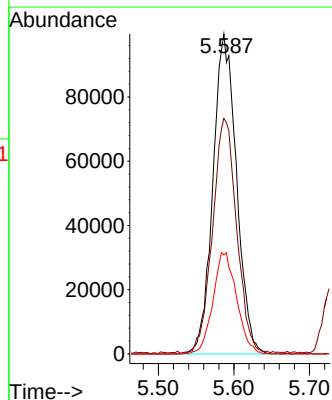
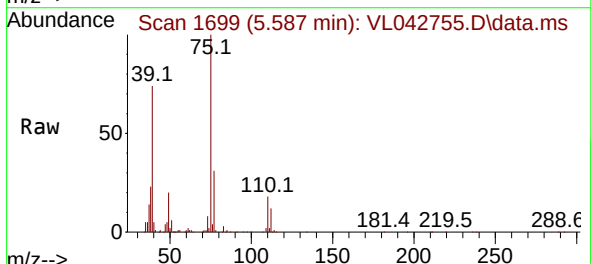
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

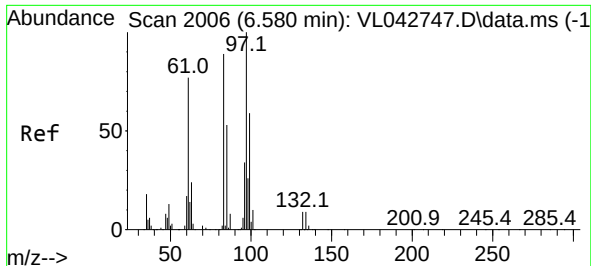
Tgt Ion: 75 Resp: 169563
 Ion Ratio Lower Upper
 75 100
 77 29.5 22.4 33.6



#46
 cis-1,3-Dichloropropene
 Concen: 10.679 ppbv
 RT: 5.587 min Scan# 1699
 Delta R.T. -0.010 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion: 75 Resp: 215596
 Ion Ratio Lower Upper
 75 100
 39 73.3 60.2 90.2
 77 30.9 22.6 34.0





#47

1,1,2-Trichloroethane

Concen: 5.445 ppbv

RT: 6.571 min Scan# 2006

Delta R.T. -0.010 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

Tgt Ion: 97 Resp: 85637

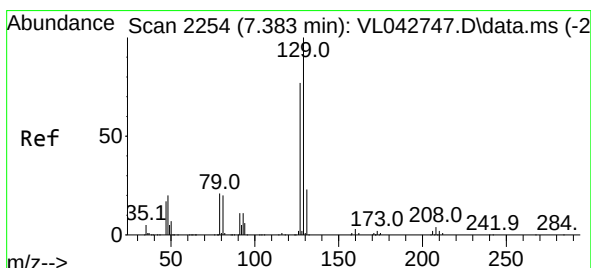
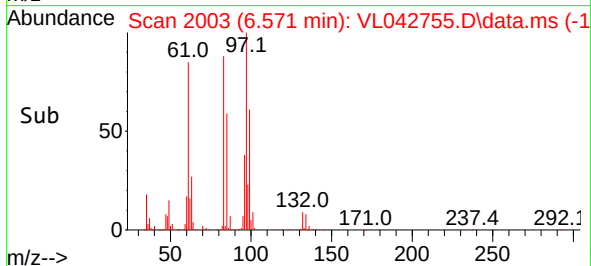
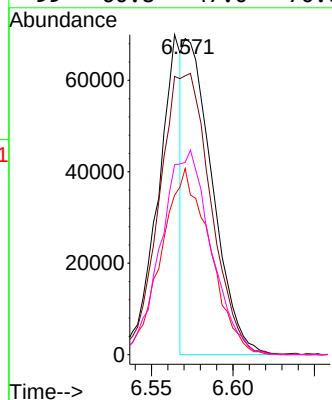
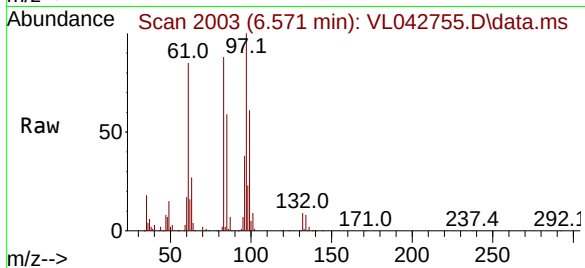
Ion Ratio Lower Upper

97 100

83 88.0 71.1 106.7

85 58.7 43.0 64.4

99 60.8 47.0 70.6



#48

Dibromochloromethane

Concen: 10.460 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. -0.003 min

Lab File: VL042755.D

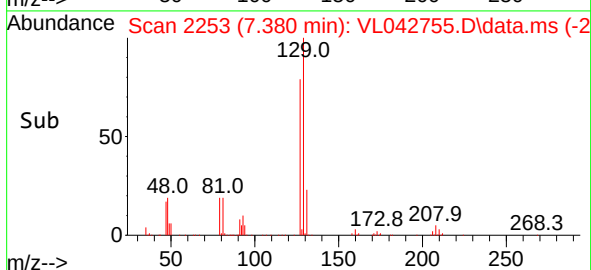
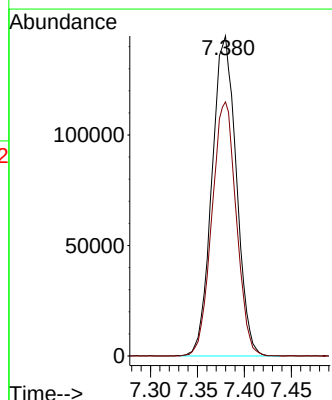
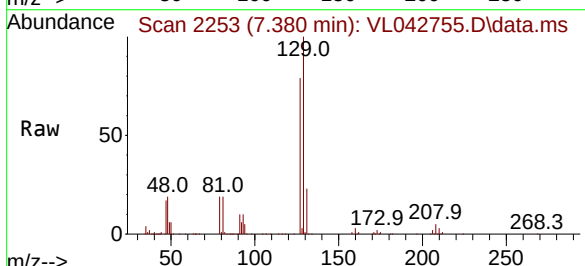
Acq: 23 Jul 2025 14:33

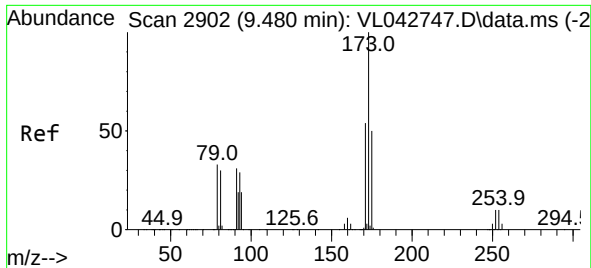
Tgt Ion: 129 Resp: 261174

Ion Ratio Lower Upper

129 100

127 79.4 38.7 116.1

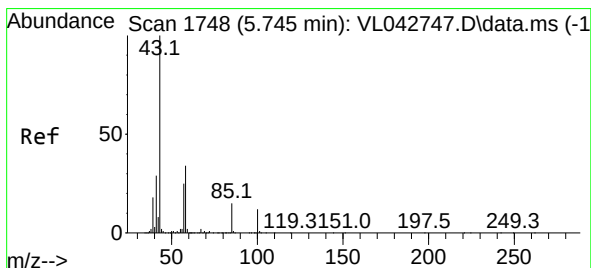
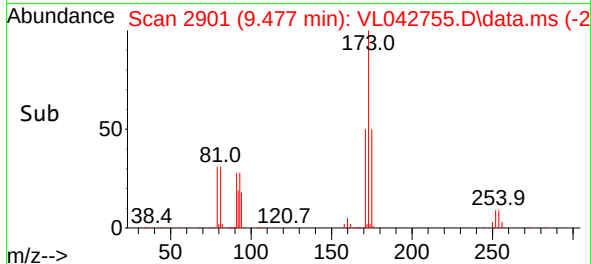
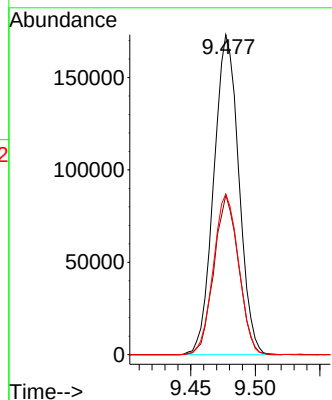
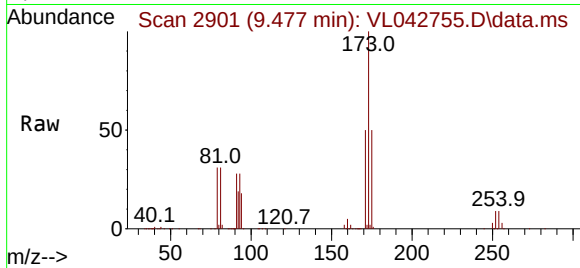




#49
Bromoform
Concen: 10.729 ppbv
RT: 9.477 min Scan# 2902
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

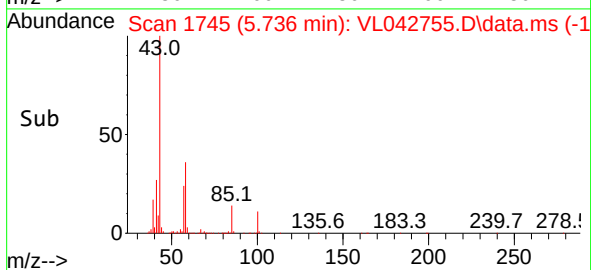
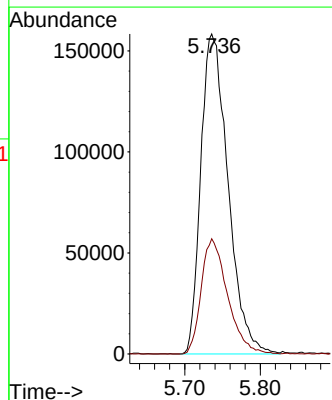
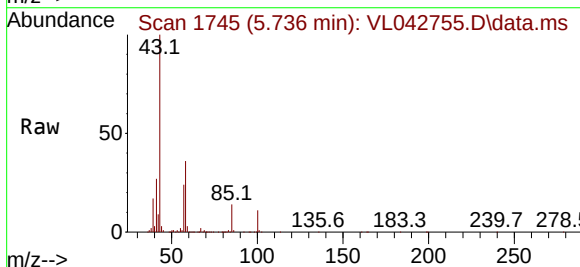
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

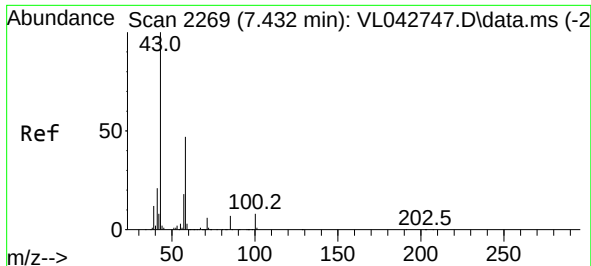
Tgt Ion:173 Resp: 233573
Ion Ratio Lower Upper
173 100
175 49.0 38.4 57.6
171 50.7 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 10.303 ppbv
RT: 5.736 min Scan# 1745
Delta R.T. -0.010 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 43 Resp: 396506
Ion Ratio Lower Upper
43 100
58 34.9 27.8 41.8

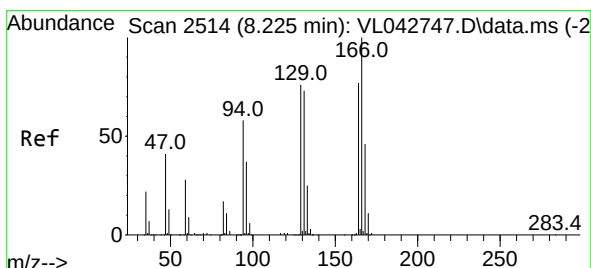
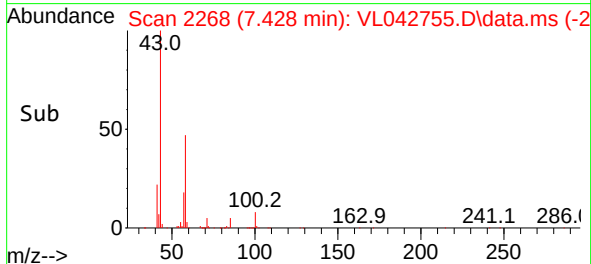
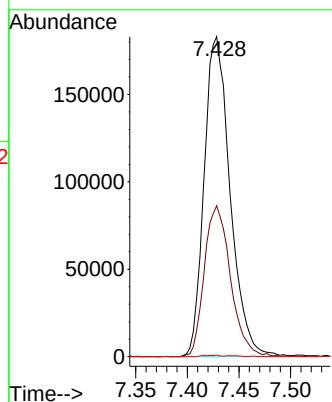
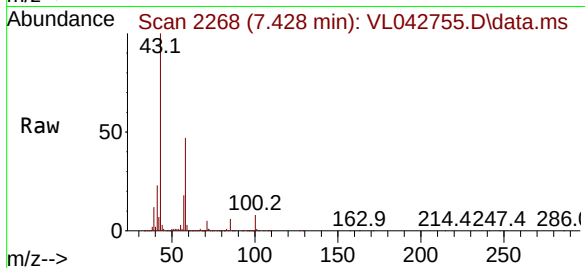




#51
2-Hexanone
Concen: 11.029 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

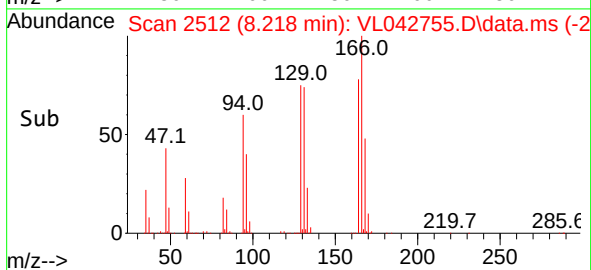
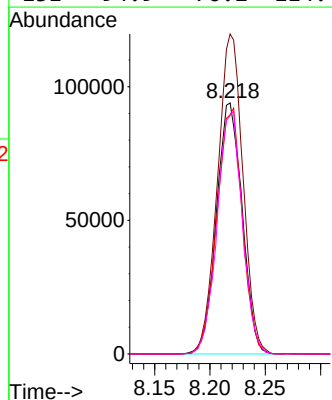
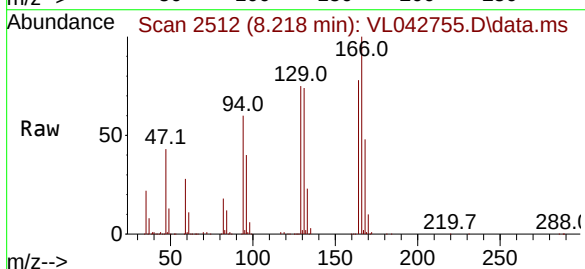
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

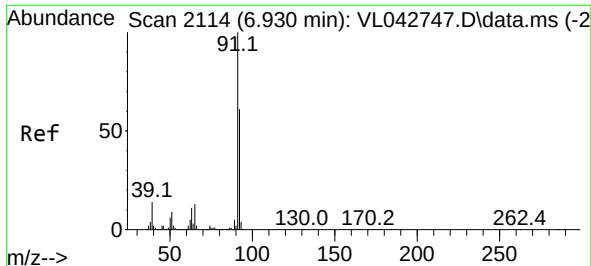
Tgt Ion: 43 Resp: 320740
Ion Ratio Lower Upper
43 100
58 47.8 38.0 57.0
98 0.5 0.2 0.4#



#52
Tetrachloroethene
Concen: 9.163 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 164 Resp: 151810
Ion Ratio Lower Upper
164 100
166 127.4 104.0 156.0
129 95.3 79.2 118.8
131 94.9 76.2 114.4

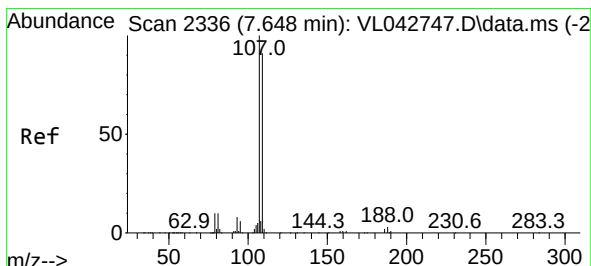
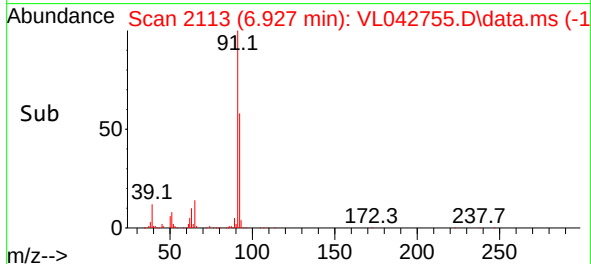
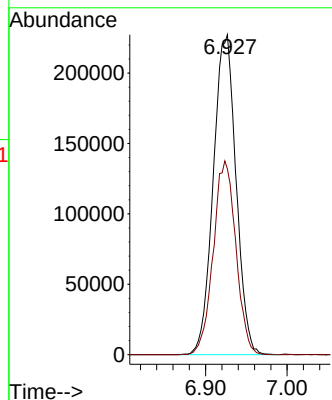
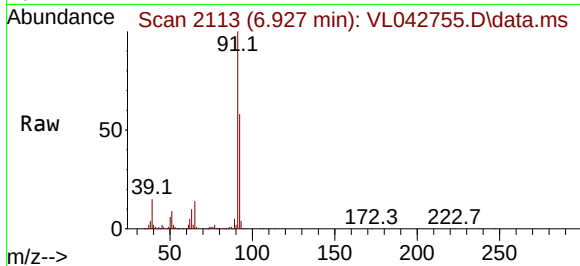




#53
Toluene
Concen: 10.294 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

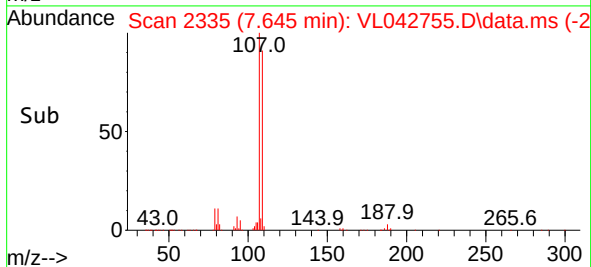
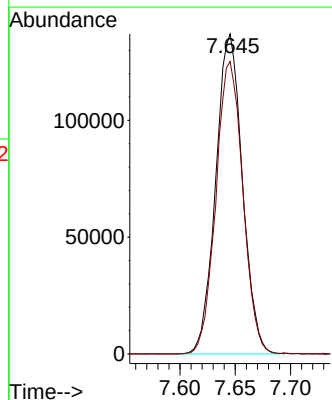
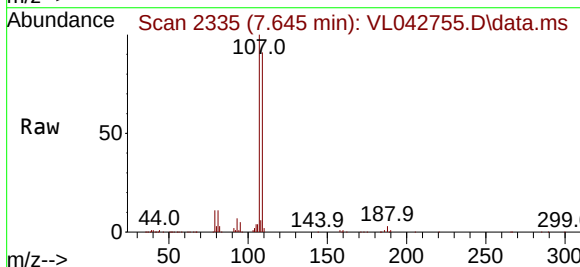
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

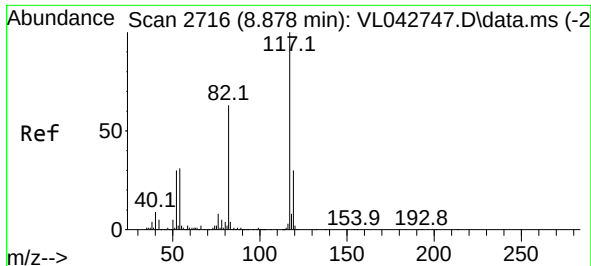
Tgt Ion: 91 Resp: 441829
Ion Ratio Lower Upper
91 100
92 60.0 48.0 72.0



#54
1,2-Dibromoethane
Concen: 10.331 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 107 Resp: 229563
Ion Ratio Lower Upper
107 100
109 91.3 72.7 109.1

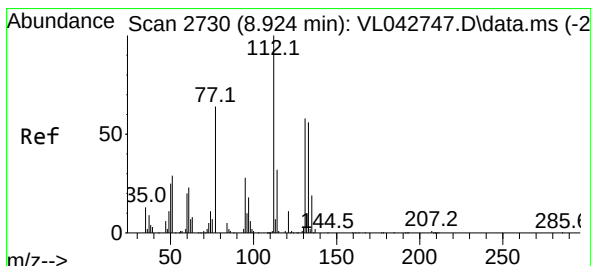
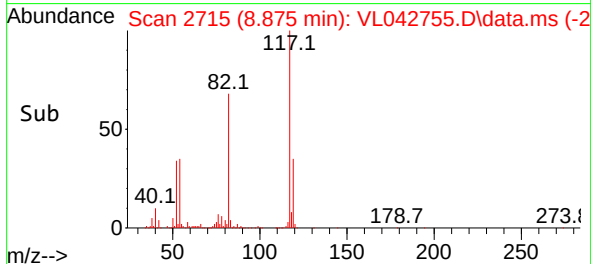
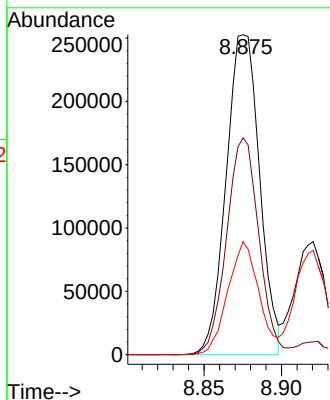
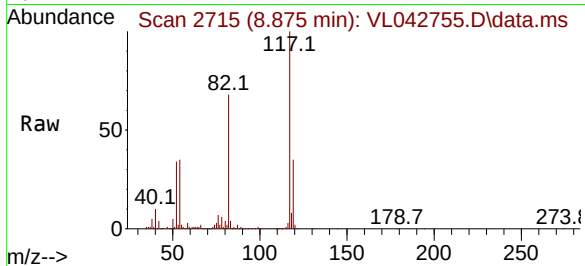




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

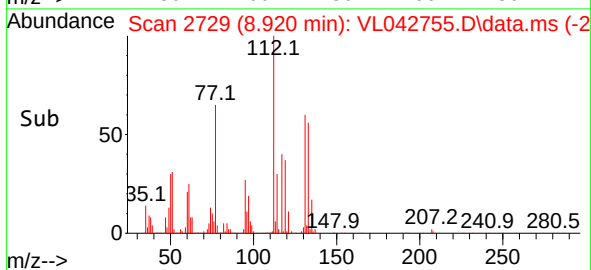
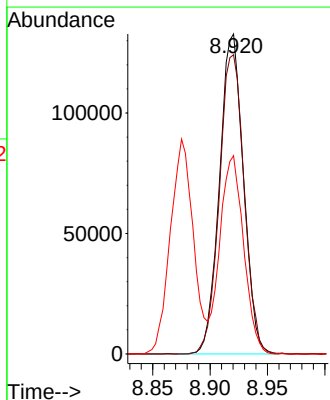
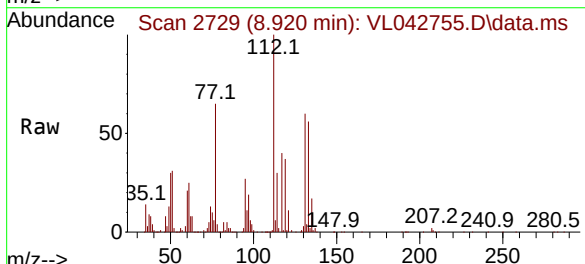
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

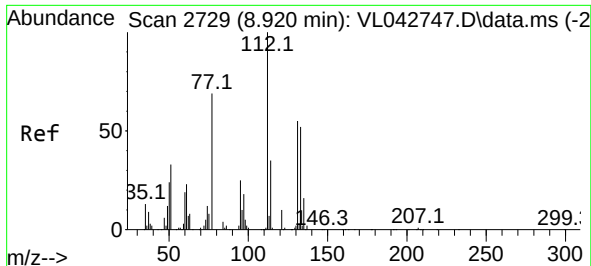
Tgt Ion:117 Resp: 380539
Ion Ratio Lower Upper
117 100
82 68.9 53.3 79.9
119 33.0 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 9.759 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:131 Resp: 193089
Ion Ratio Lower Upper
131 100
133 96.6 76.8 115.2
119 61.2 49.7 74.5

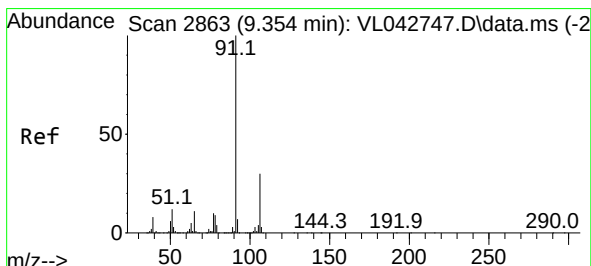
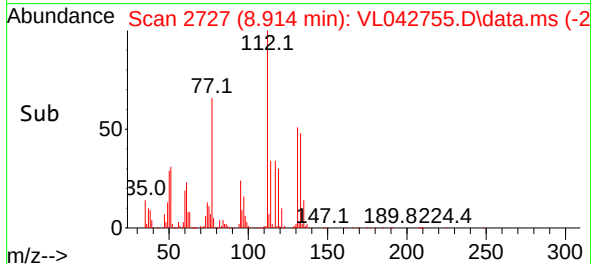
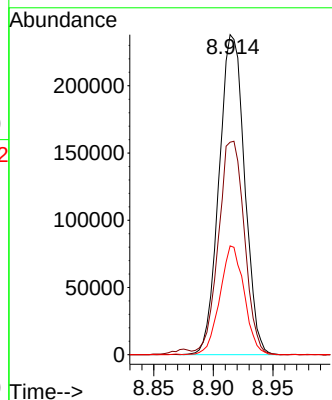
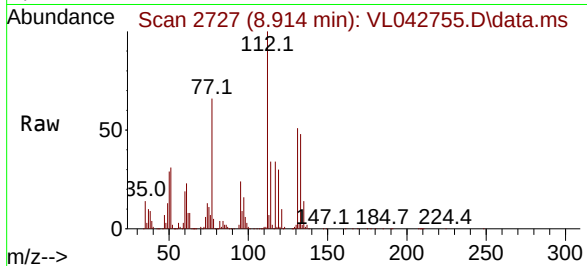




#57
Chlorobenzene
Concen: 9.623 ppbv
RT: 8.914 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

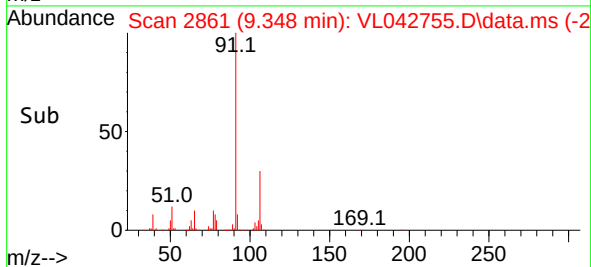
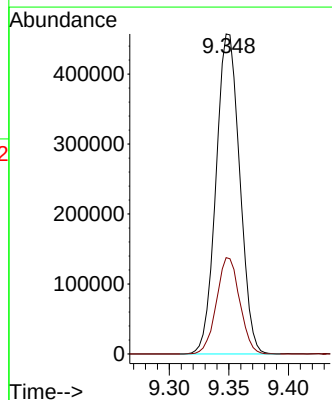
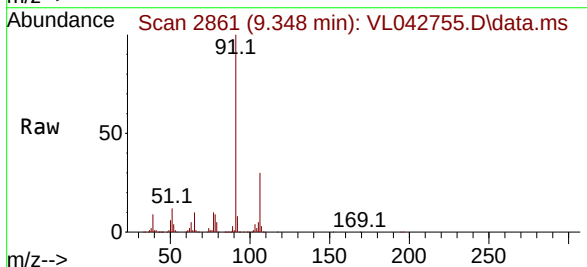
Instrument :
MSVOA_1
ClientSampleId :
ICVVL072325

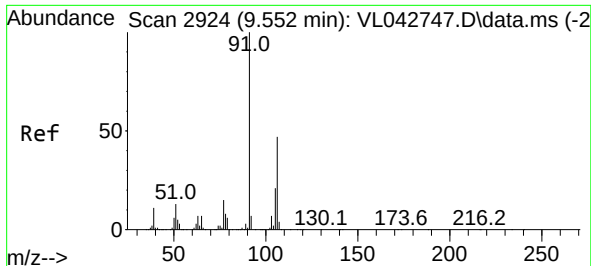
Tgt Ion:112 Resp: 354412
Ion Ratio Lower Upper
112 100
77 66.4 56.4 84.6
114 34.0 31.2 38.2



#58
Ethyl Benzene
Concen: 10.504 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 631247
Ion Ratio Lower Upper
91 100
106 30.1 23.8 35.6





#59

m/p-Xylene

Concen: 10.418 ppbv

RT: 9.545 min Scan# 29

Delta R.T. -0.006 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_1

ClientSampleId :

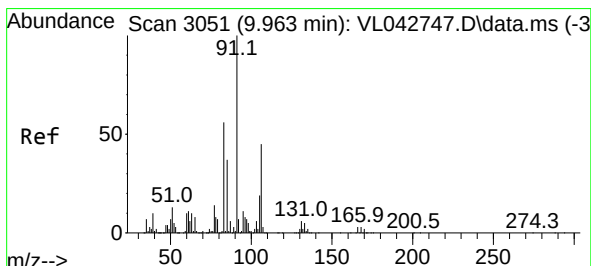
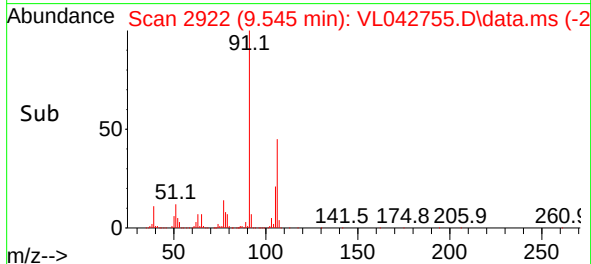
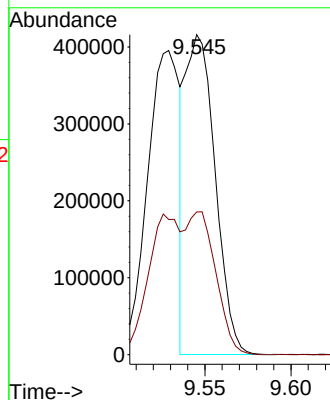
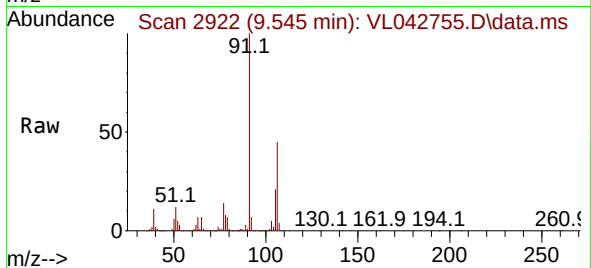
ICVVL072325

Tgt Ion: 91 Resp: 500367

Ion Ratio Lower Upper

91 100

106 92.3 37.4 56.2#



#60

o-Xylene

Concen: 10.499 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042755.D

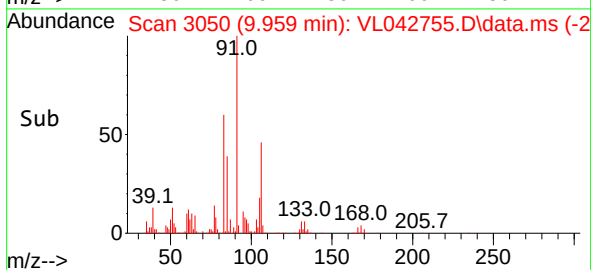
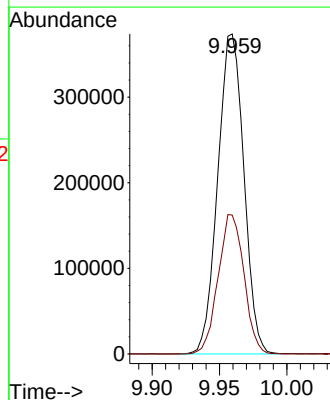
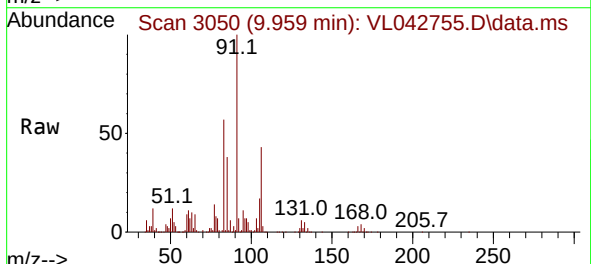
Acq: 23 Jul 2025 14:33

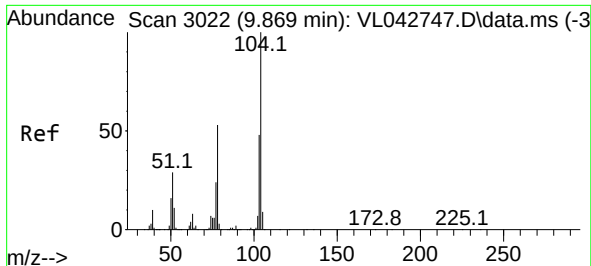
Tgt Ion: 91 Resp: 503849

Ion Ratio Lower Upper

91 100

106 43.1 22.0 66.0

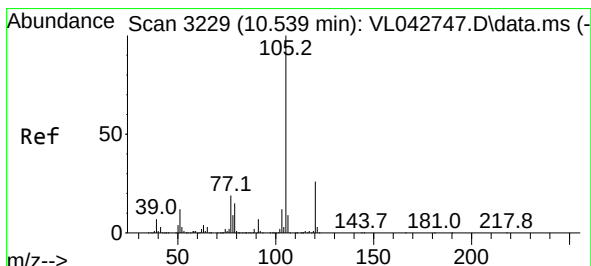
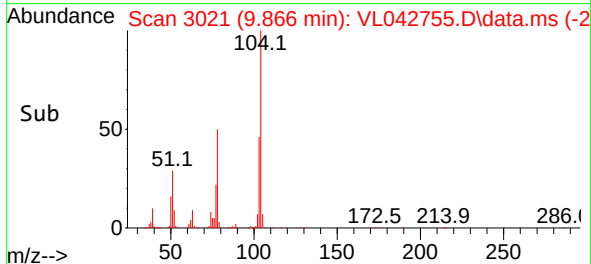
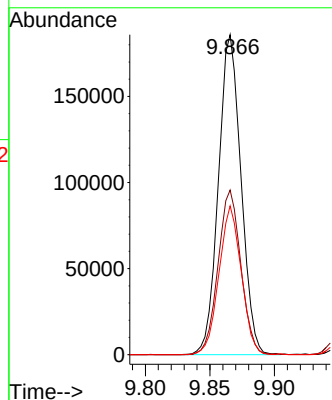
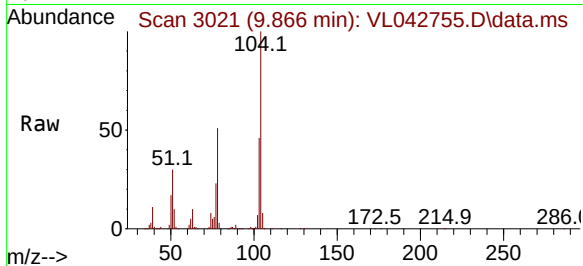




#61
Styrene
Concen: 11.185 ppbv
RT: 9.866 min Scan# 3022
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

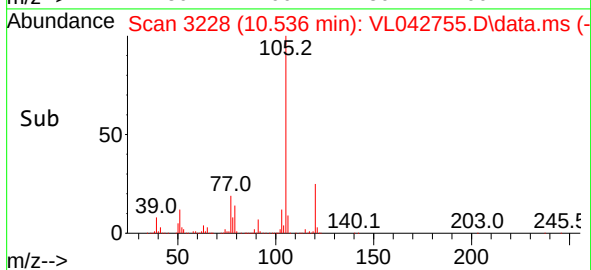
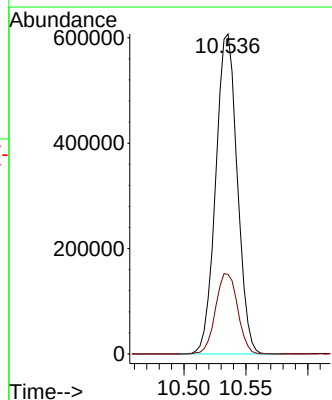
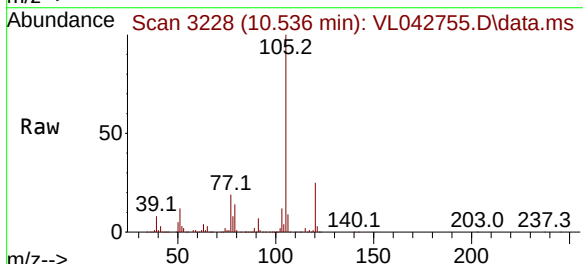
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

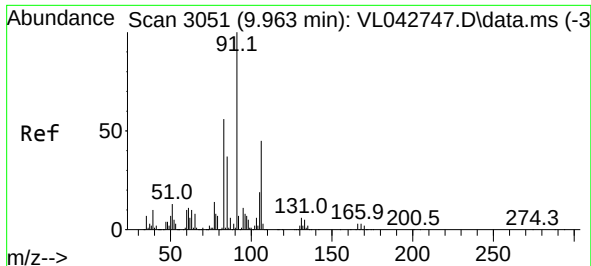
Tgt Ion:104 Resp: 225799
Ion Ratio Lower Upper
104 100
78 51.9 41.5 62.3
103 46.0 37.5 56.3



#62
Isopropylbenzene
Concen: 10.398 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 736044
Ion Ratio Lower Upper
105 100
120 25.7 20.5 30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 9.340 ppbv

RT: 9.956 min Scan# 3051

Delta R.T. -0.006 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

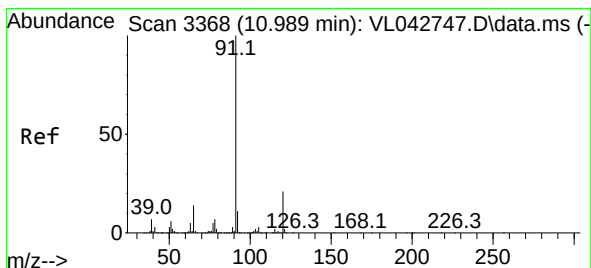
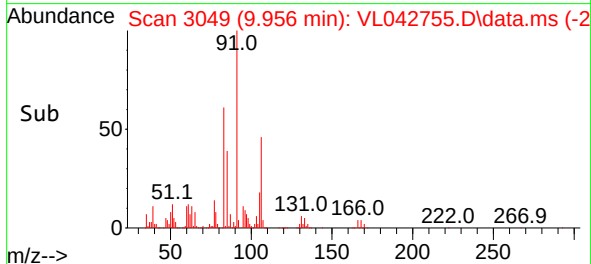
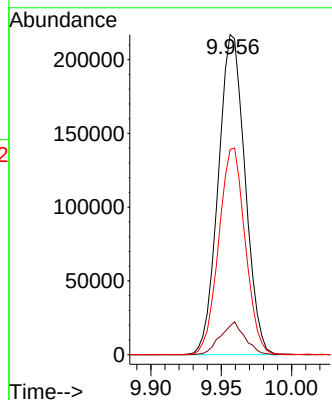
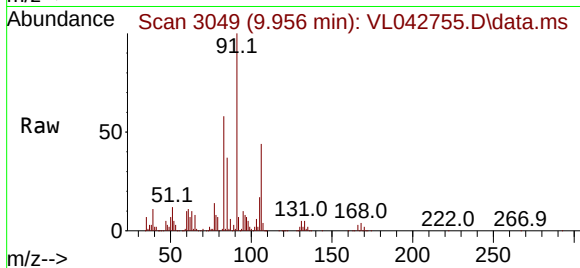
Tgt Ion: 83 Resp: 287775

Ion Ratio Lower Upper

83 100

131 9.4 5.0 15.0

85 64.0 32.6 97.7



#64

n-propylbenzene

Concen: 10.460 ppbv

RT: 10.982 min Scan# 3366

Delta R.T. -0.006 min

Lab File: VL042755.D

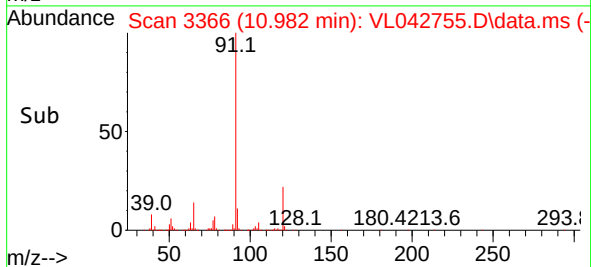
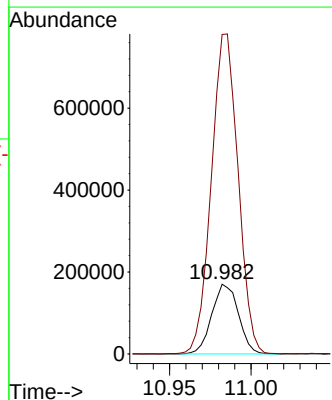
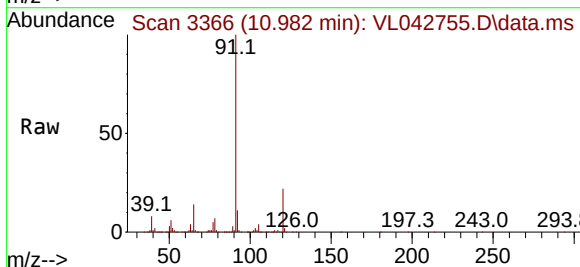
Acq: 23 Jul 2025 14:33

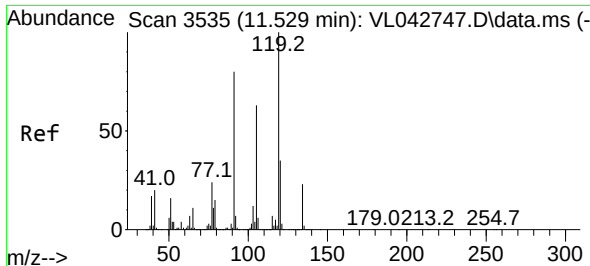
Tgt Ion: 120 Resp: 193034

Ion Ratio Lower Upper

120 100

91 461.7 372.7 559.1

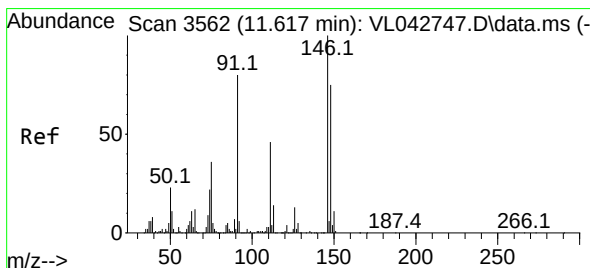
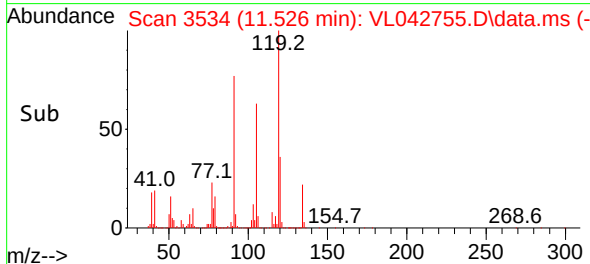
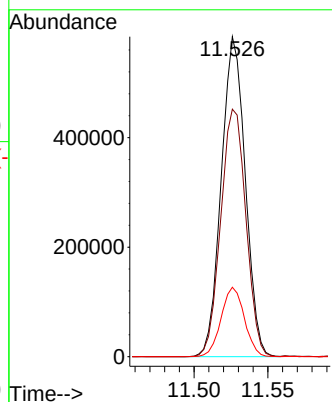
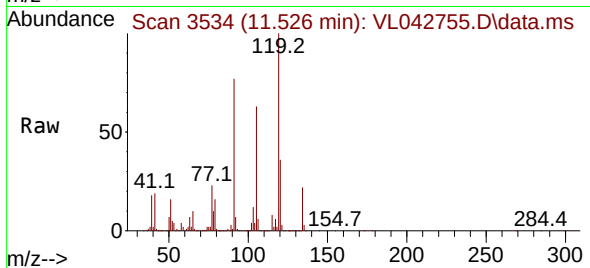




#65
tert-Butylbenzene
Concen: 10.512 ppbv
RT: 11.526 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

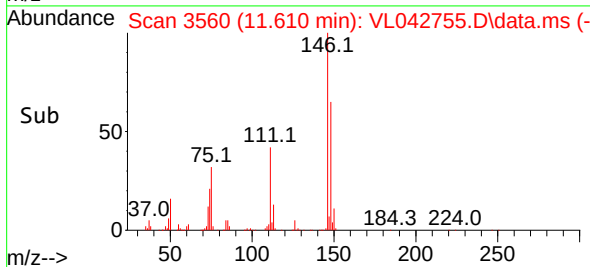
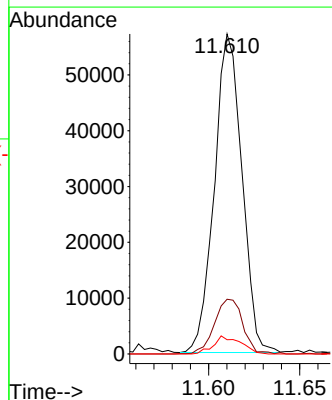
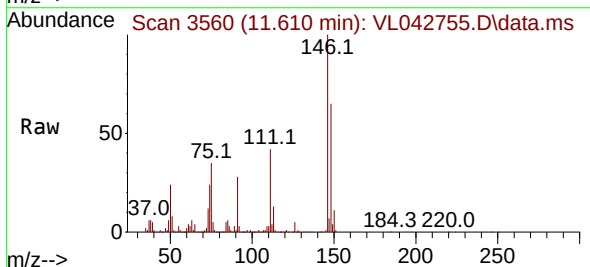
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

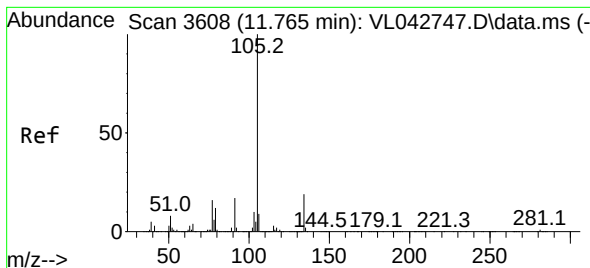
Tgt Ion:119 Resp: 660966
Ion Ratio Lower Upper
119 100
91 81.2 64.0 96.0
134 21.1 17.3 25.9



#66
Benzyl Chloride
Concen: 11.634 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion: 91 Resp: 60055
Ion Ratio Lower Upper
91 100
126 17.7 14.4 21.6
128 5.6 5.2 7.8





#67

sec-Butylbenzene

Concen: 10.221 ppbv

RT: 11.762 min Scan# 3607

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

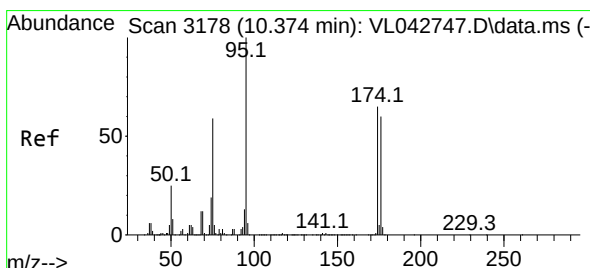
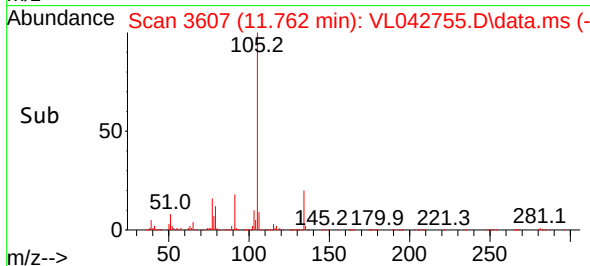
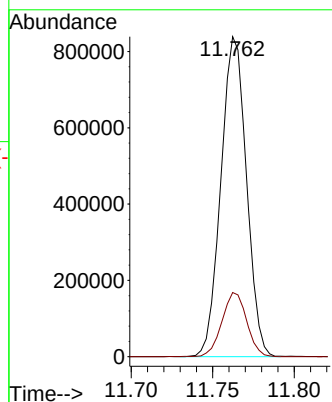
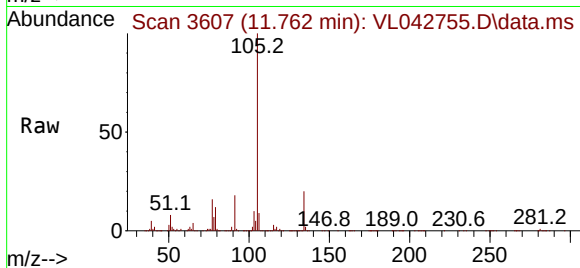
ICVVL072325

Tgt Ion:105 Resp: 914046

Ion Ratio Lower Upper

105 100

134 19.5 15.5 23.3



#68

1-Bromo-4-Fluorobenzene

Concen: 10.397 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

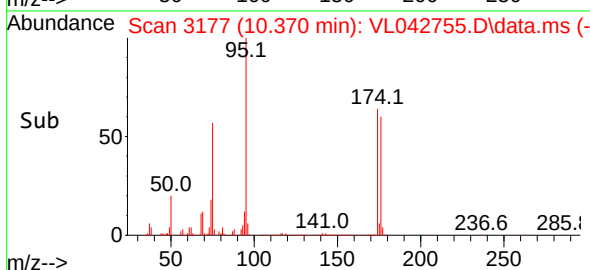
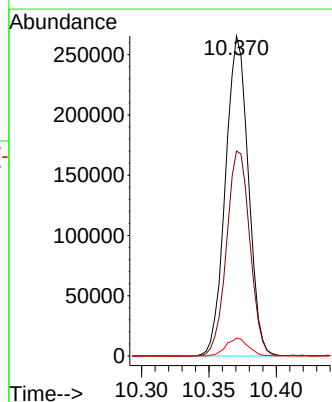
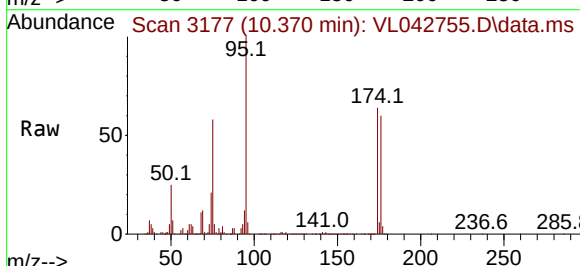
Tgt Ion: 95 Resp: 313324

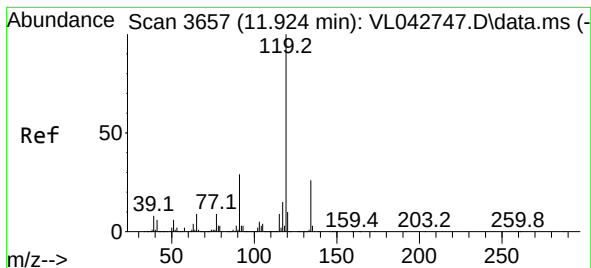
Ion Ratio Lower Upper

95 100

174 65.8 53.8 80.6

175 5.4 4.0 6.0





#69

p-Isopropyltoluene

Concen: 10.677 ppbv

RT: 11.921 min Scan# 3

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325

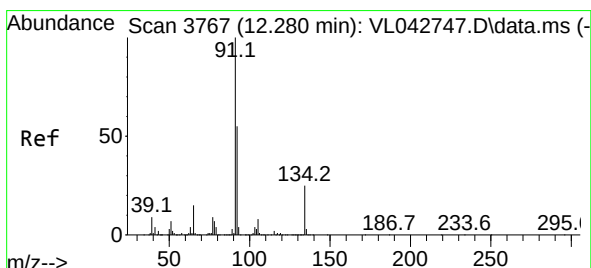
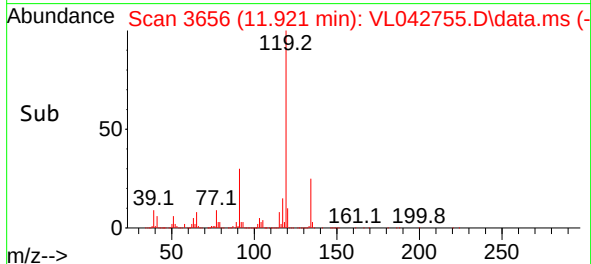
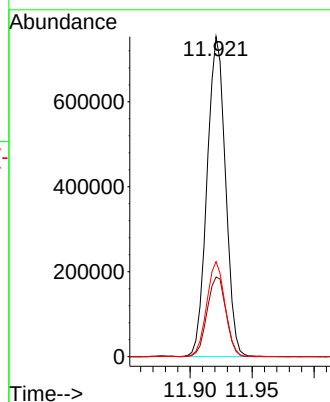
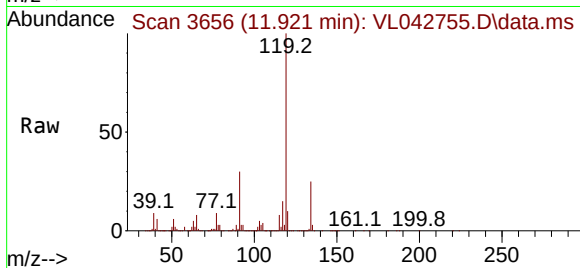
Tgt Ion:119 Resp: 778601

Ion Ratio Lower Upper

119 100

134 25.8 20.6 31.0

91 29.5 23.2 34.8



#70

n-Butylbenzene

Concen: 11.197 ppbv

RT: 12.277 min Scan# 3766

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

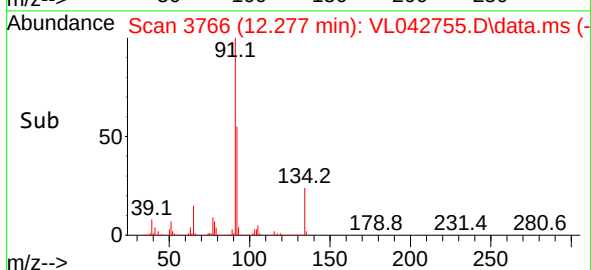
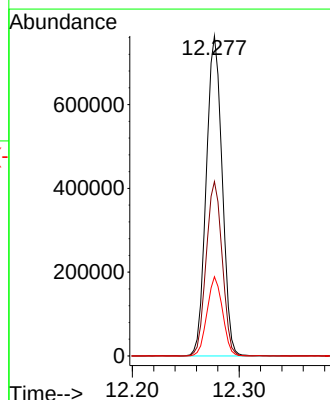
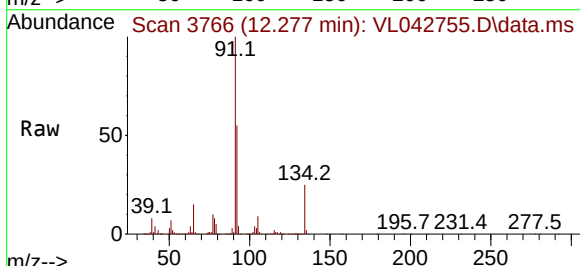
Tgt Ion: 91 Resp: 788734

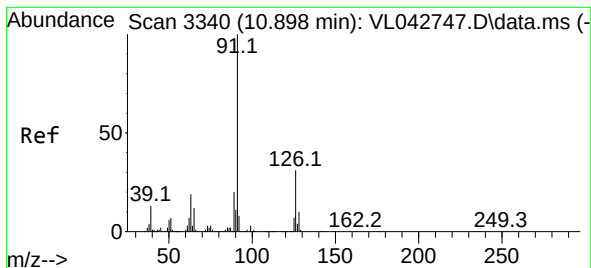
Ion Ratio Lower Upper

91 100

92 55.0 43.4 65.2

134 24.1 19.6 29.4

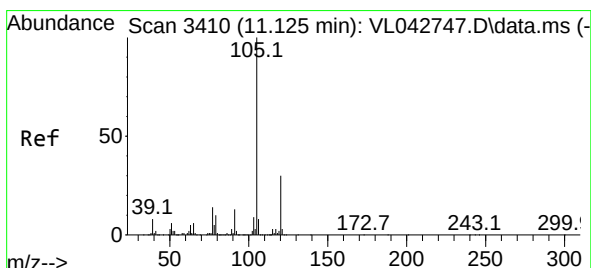
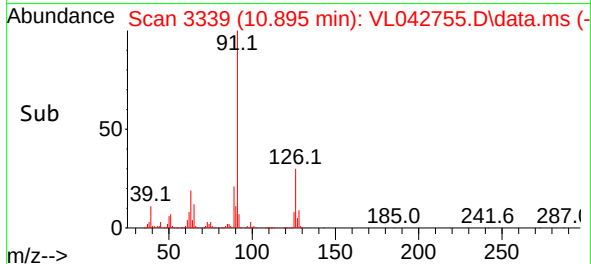
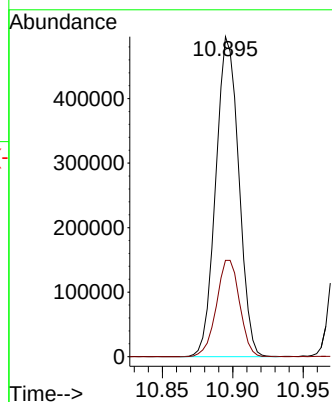
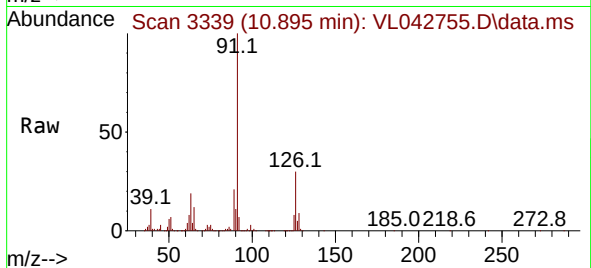




#71
2-Chlorotoluene
Concen: 10.376 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

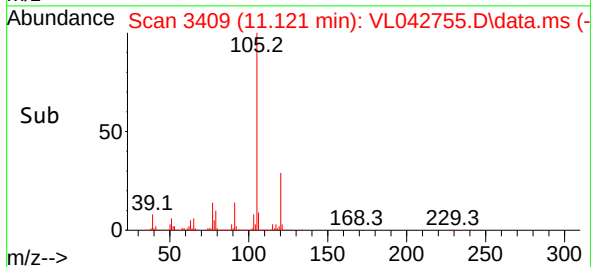
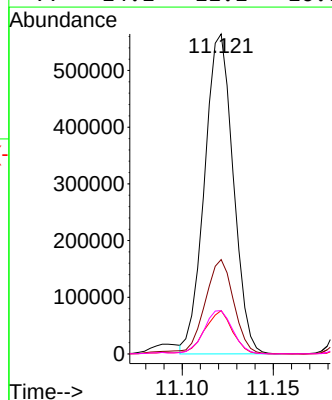
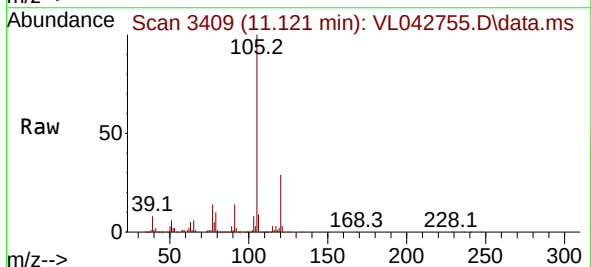
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

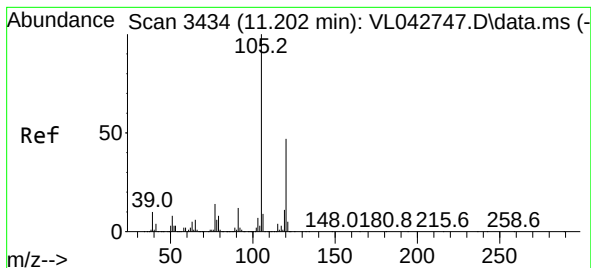
Tgt Ion: 91 Resp: 563193
Ion Ratio Lower Upper
91 100
126 30.4 12.0 48.2



#72
4-Ethyltoluene
Concen: 10.772 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 617355
Ion Ratio Lower Upper
105 100
120 30.2 24.4 36.6
91 13.4 10.6 15.8
77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.951 ppbv

RT: 11.199 min Scan# 34

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

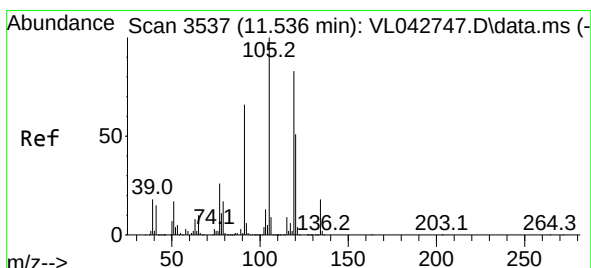
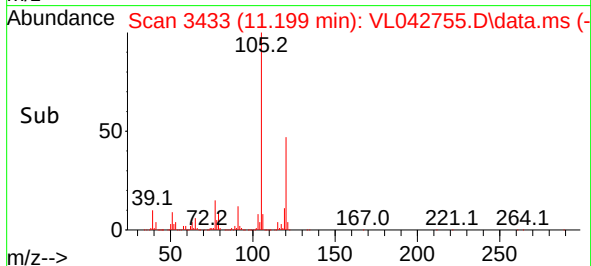
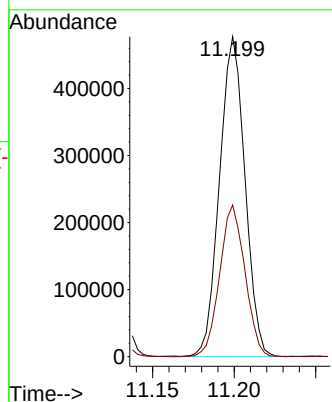
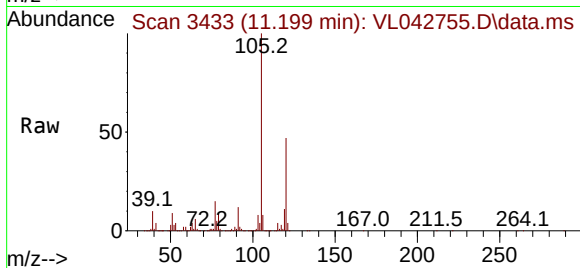
ICVVL072325

Tgt Ion:105 Resp: 516735

Ion Ratio Lower Upper

105 100

120 47.5 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 11.017 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042755.D

Acq: 23 Jul 2025 14:33

Tgt Ion:105 Resp: 567186

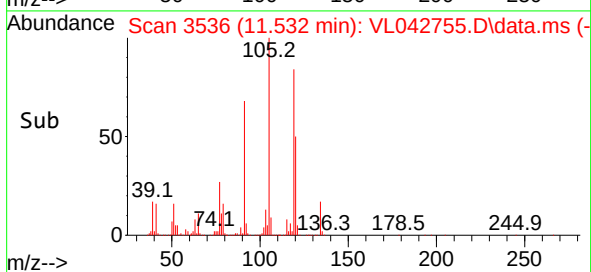
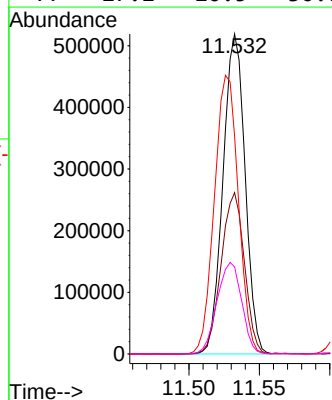
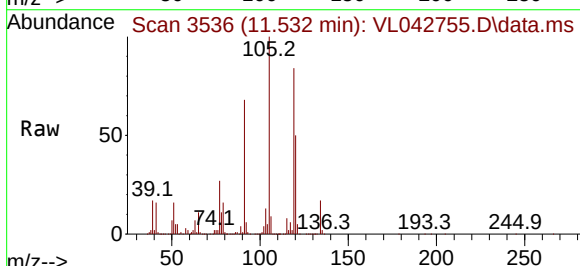
Ion Ratio Lower Upper

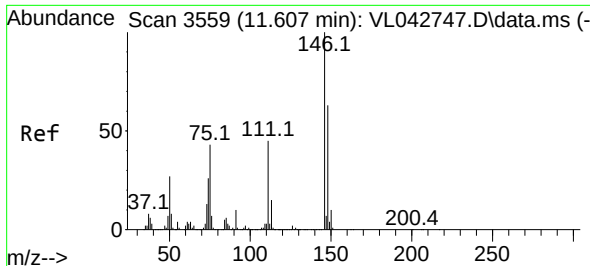
105 100

120 50.4 40.8 61.2

91 68.1 53.0 79.4

77 27.2 20.5 30.7

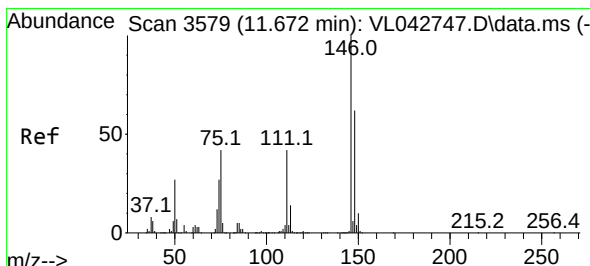
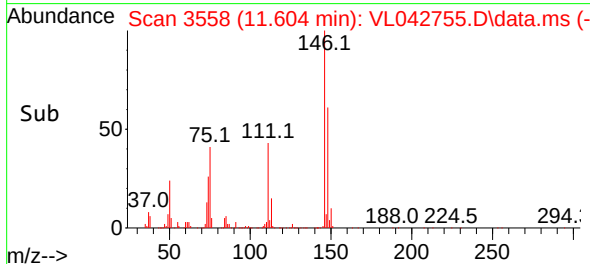
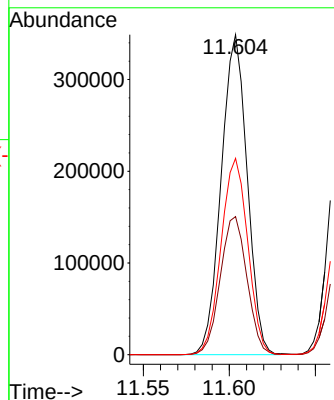
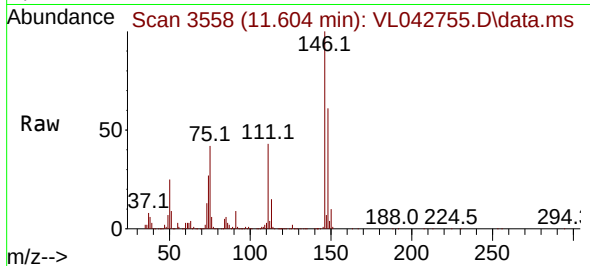




#75
1,3-Dichlorobenzene
Concen: 10.165 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

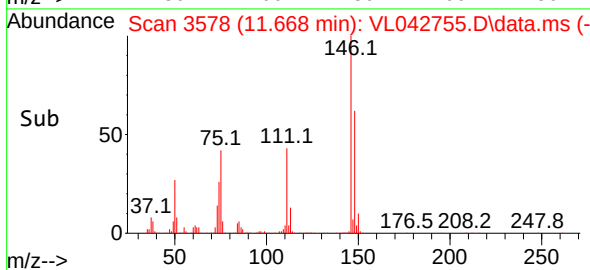
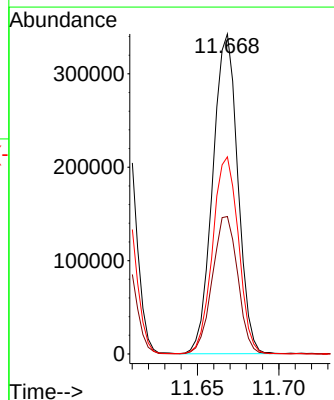
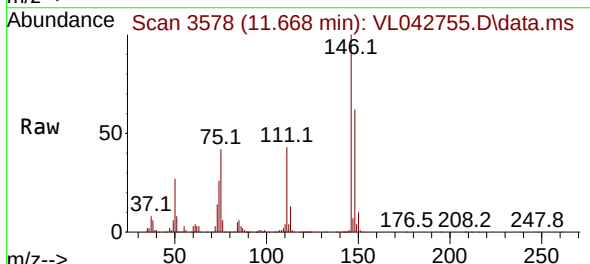
Instrument :
MSVOA_1
ClientSampleId :
ICVVL072325

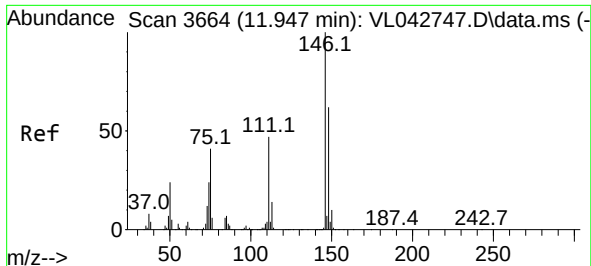
Tgt Ion:146 Resp: 366855
Ion Ratio Lower Upper
146 100
111 44.3 22.7 68.0
148 63.1 31.9 95.5



#76
1,4-Dichlorobenzene
Concen: 10.333 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:146 Resp: 364937
Ion Ratio Lower Upper
146 100
111 43.9 21.4 64.2
148 63.8 32.1 96.3

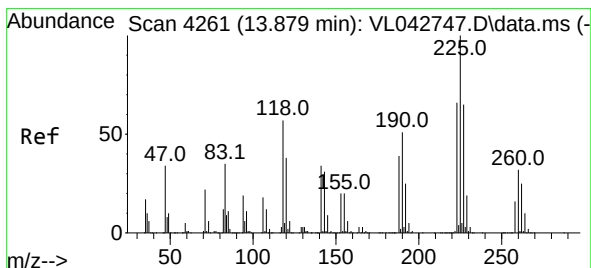
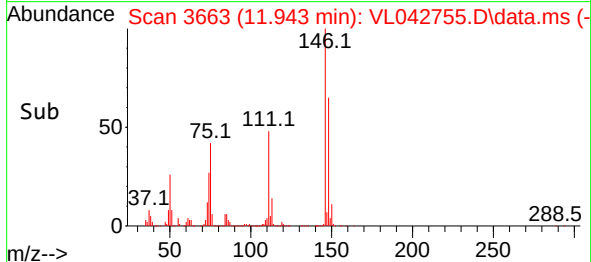
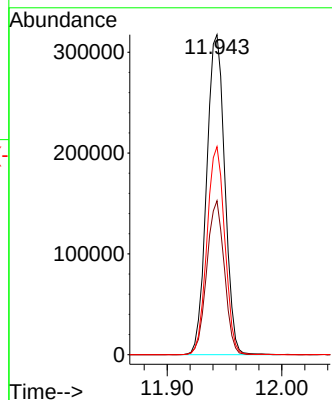
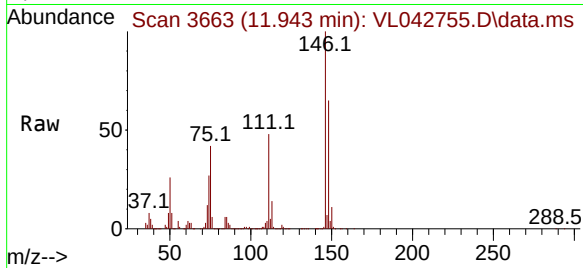




#77
 1,2-Dichlorobenzene
 Concen: 9.839 ppbv
 RT: 11.943 min Scan# 30
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

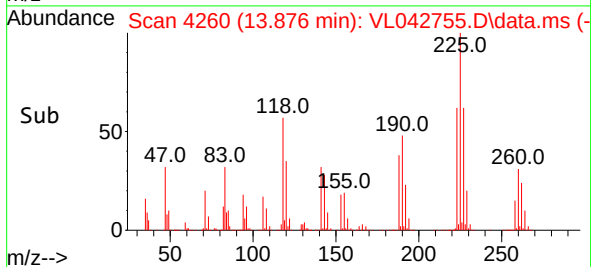
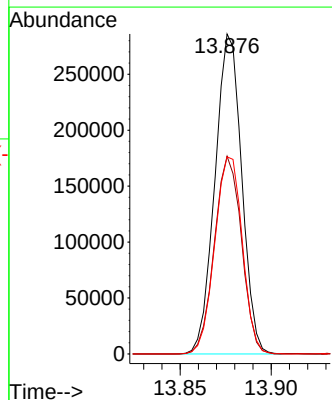
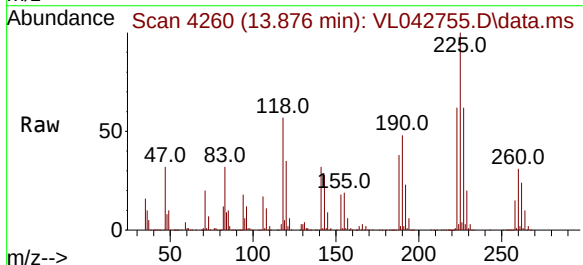
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

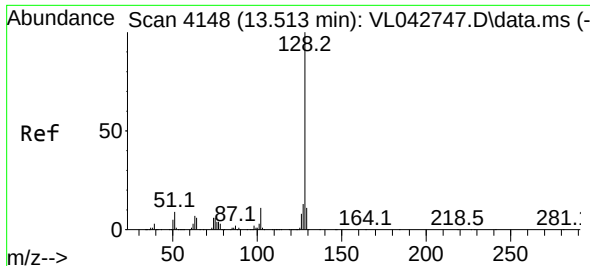
Tgt Ion:146 Resp: 348999
 Ion Ratio Lower Upper
 146 100
 111 46.7 23.7 71.1
 148 63.8 32.6 97.7



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.091 ppbv
 RT: 13.876 min Scan# 4260
 Delta R.T. -0.003 min
 Lab File: VL042755.D
 Acq: 23 Jul 2025 14:33

Tgt Ion:225 Resp: 291861
 Ion Ratio Lower Upper
 225 100
 223 62.5 50.7 76.1
 227 63.5 50.5 75.7

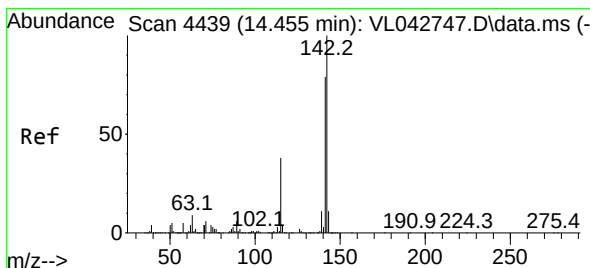
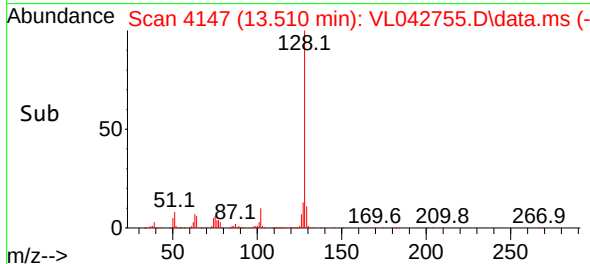
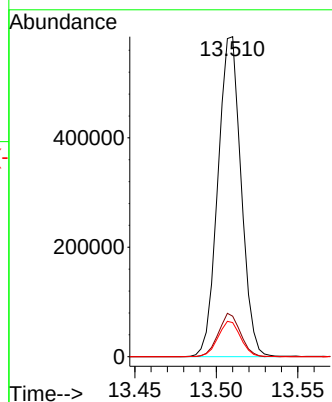
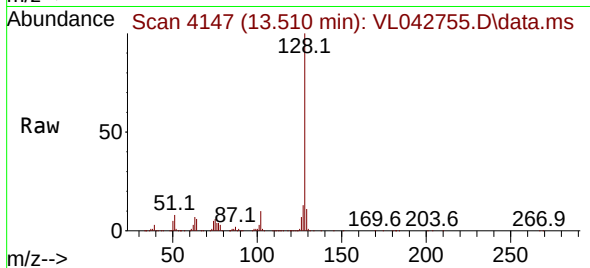




#79
Naphthalene
Concen: 10.342 ppbv
RT: 13.510 min Scan# 4148
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

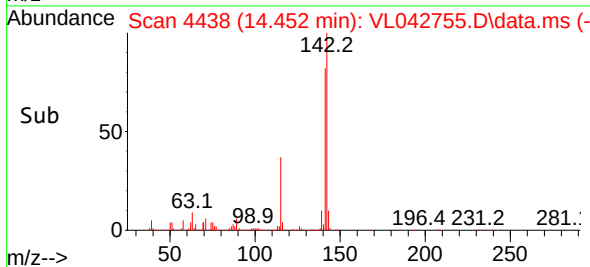
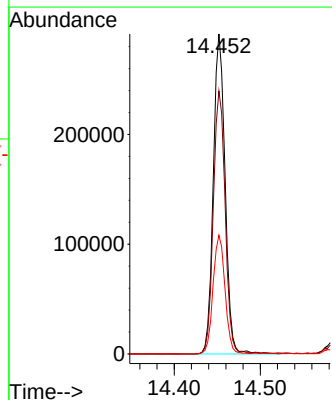
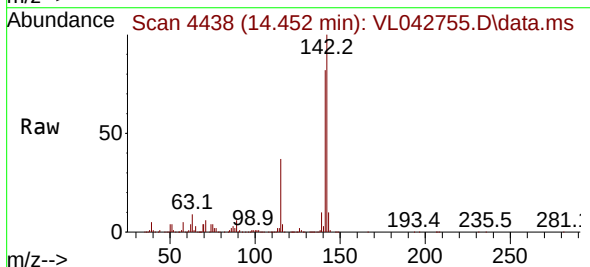
Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

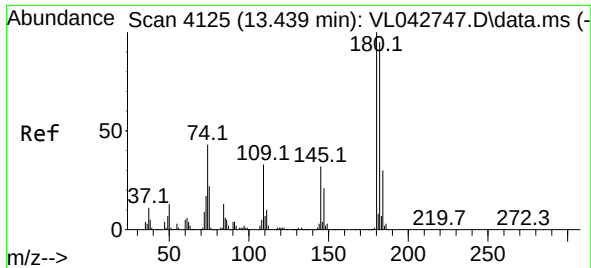
Tgt Ion:128 Resp: 578563
Ion Ratio Lower Upper
128 100
127 12.7 10.5 15.7
129 10.6 8.6 13.0



#80
Naphthalene,2-methyl-
Concen: 9.951 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.003 min
Lab File: VL042755.D
Acq: 23 Jul 2025 14:33

Tgt Ion:142 Resp: 277798
Ion Ratio Lower Upper
142 100
141 83.6 65.8 98.8
115 38.2 31.2 46.8





#81

1,2,4-Trichlorobenzene

Concen: 10.181 ppbv

RT: 13.436 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042755.D

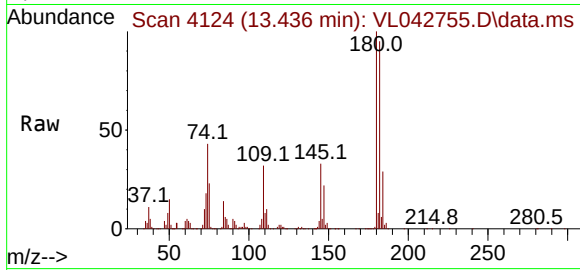
Acq: 23 Jul 2025 14:33

Instrument :

MSVOA_L

ClientSampleId :

ICVVL072325



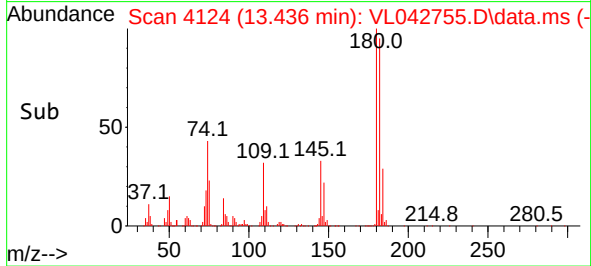
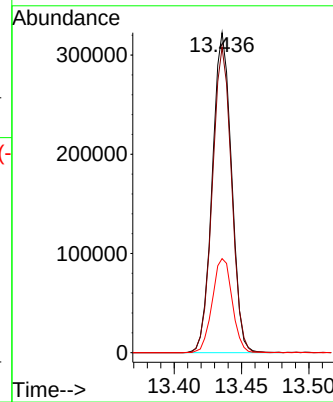
Tgt Ion:180 Resp: 319897

Ion Ratio Lower Upper

180 100

182 95.5 76.2 114.2

184 30.5 24.8 37.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042788.D
 Acq On : 31 Jul 2025 08:37
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Quant Time: Aug 01 01:12:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	139439	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	391811	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.891	117	345903	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	282020	10.295	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	175602	9.525	ppbv	99
3) Chlorodifluoromethane	1.479	51	245813	10.235	ppbv	98
4) Chloromethane	1.534	50	69667	9.341	ppbv	96
5) Vinyl Chloride	1.583	62	64707	8.781	ppbv	94
6) Bromomethane	1.670	94	28024	9.837	ppbv	96
7) Chloroethane	1.706	64	26081	9.160	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	145116	9.571	ppbv	98
9) Propene	1.486	41	94980	10.882	ppbv	100
10) Heptane	4.991	43	257717	10.950	ppbv	96
11) Trichlorofluoromethane	1.881	101	173476	9.128	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	138636	9.600	ppbv	97
13) Ethanol	1.725	45	7183	10.150	ppbv	95
14) Bromoethene	1.784	108	49283	9.639	ppbv	98
15) Acetone	1.839	43	152576	7.924	ppbv	100
16) 1,3-Butadiene	1.612	39	77405	9.425	ppbv	99
17) tert-Butyl alcohol	2.043	59	160407	9.237	ppbv	99
18) 1,1-Dichloroethene	2.039	96	60001	9.195	ppbv	92
19) Isopropyl Alcohol	1.891	45	94435	9.229	ppbv	95
20) Methylene Chloride	2.065	84	51973	8.566	ppbv	95
21) Allyl Chloride	2.101	41	117837	9.930	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	67488	9.614	ppbv	95
23) Vinyl Acetate	2.467	43	285868	12.247	ppbv	99
24) 1,1-Dichloroethane	2.415	63	136815	9.496	ppbv	100
25) Ethyl Acetate	2.842	43	456109	10.702	ppbv	100
26) Hexane	2.832	57	194417	10.399	ppbv	98
27) Carbon Disulfide	2.156	76	165760	10.356	ppbv	96
28) Methyl tert-Butyl Ether	2.447	73	88166	9.982	ppbv	98
29) Chloroform	2.855	83	301928	10.451	ppbv	95
30) Cyclohexane	3.865	84	164864	10.398	ppbv	96
31) cis-1,2-Dichloroethene	2.726	61	196928	10.250	ppbv	98
32) 1,1,1-Trichloroethane	3.376	97	296432	9.850	ppbv	100
34) 2-Butanone	2.561	43	297678	10.726	ppbv	98
35) Carbon Tetrachloride	3.771	117	310581	10.672	ppbv	98
36) Benzene	3.664	78	391679	10.548	ppbv	99
37) 1,2-Dichloroethane	3.227	62	236929	10.592	ppbv	99
38) Trichloroethene	4.561	130	178226	9.991	ppbv	97
39) 1,2-Dichloropropane	4.324	63	143986	10.505	ppbv	95
40) 1,4-Dioxane	4.596	88	64201	10.049	ppbv #	94
41) Tetrahydrofuran	3.059	42	161670	11.447	ppbv	97
42) Bromodichloromethane	4.499	83	324091	11.125	ppbv	100
43) Methyl Methacrylate	4.891	69	150704	11.418	ppbv	98
44) 2,2,4-Trimethylpentane	4.651	57	674333	11.142	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	168632	11.393	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042788.D
 Acq On : 31 Jul 2025 08:37
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

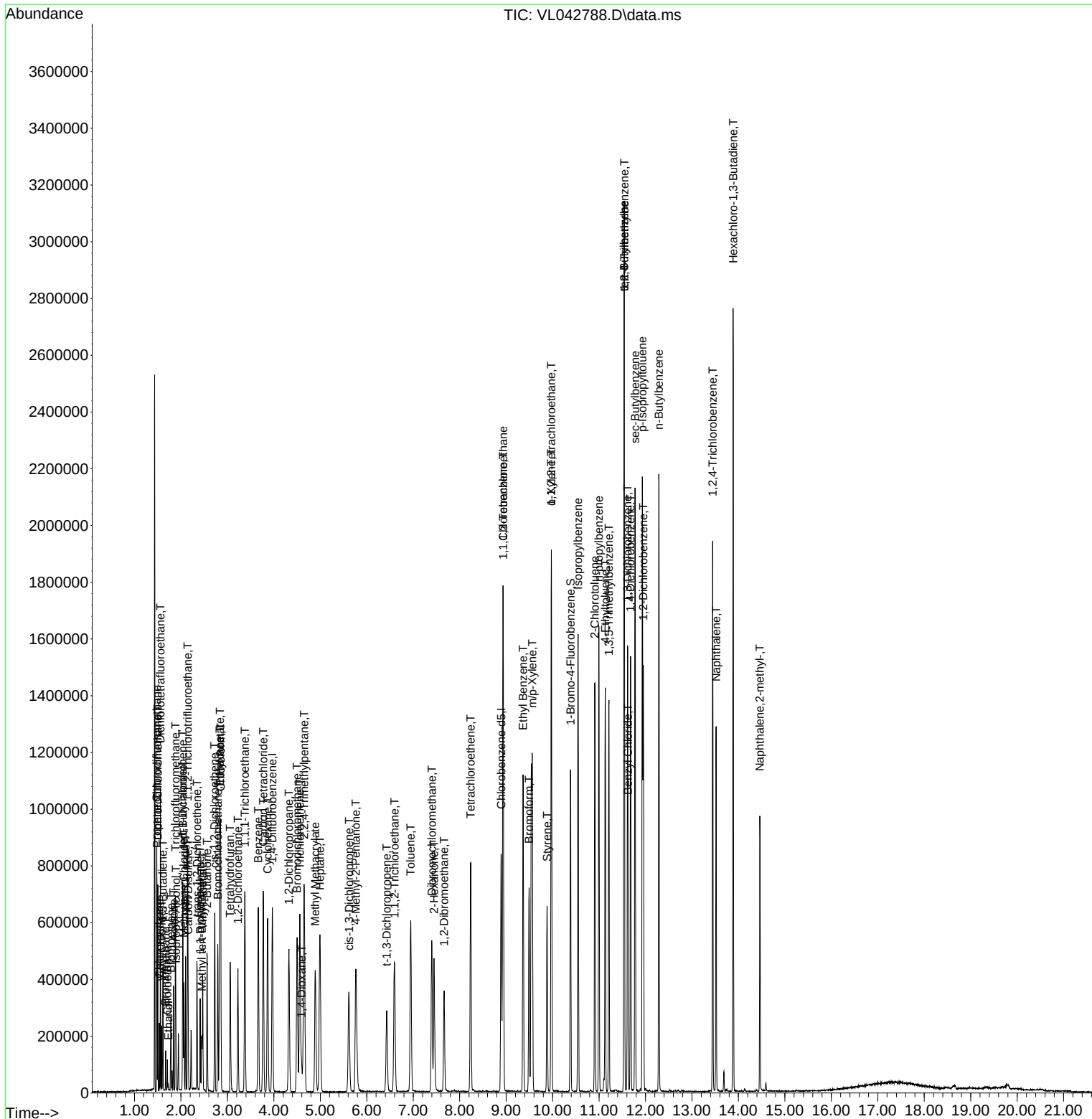
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 ClientSampleId :
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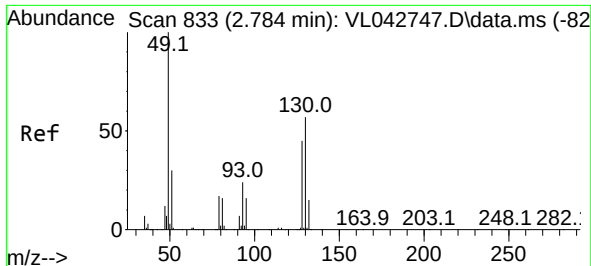
Quant Time: Aug 01 01:12:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	217364	11.589	ppbv	94
47) 1,1,2-Trichloroethane	6.597	97	155145	10.618	ppbv	97
48) Dibromochloromethane	7.399	129	263177	11.346	ppbv	98
49) Bromoform	9.493	173	233626	11.551	ppbv	98
50) 4-Methyl-2-Pentanone	5.765	43	396864	11.101	ppbv	100
51) 2-Hexanone	7.448	43	318210	11.778	ppbv #	99
52) Tetrachloroethene	8.234	164	143437	9.319	ppbv	98
53) Toluene	6.946	91	440370	11.044	ppbv	99
54) 1,2-Dibromoethane	7.665	107	228691	11.078	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.937	131	196819	10.944	ppbv	99
57) Chlorobenzene	8.933	112	349998	10.455	ppbv #	95
58) Ethyl Benzene	9.364	91	615736	11.272	ppbv	99
59) m/p-Xylene	9.561	91	478347	10.957	ppbv #	24
60) o-Xylene	9.972	91	497901	11.414	ppbv	99
61) Styrene	9.882	104	215469	11.742	ppbv	99
62) Isopropylbenzene	10.549	105	716277	11.132	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.972	83	291626	10.413	ppbv	99
64) n-propylbenzene	10.998	120	193965	11.563	ppbv	98
65) tert-Butylbenzene	11.539	119	641028	11.215	ppbv	99
66) Benzyl Chloride	11.623	91	65004	13.854	ppbv	98
67) sec-Butylbenzene	11.775	105	905933	11.144	ppbv	100
69) p-Isopropyltoluene	11.931	119	763427	11.517	ppbv	99
70) n-Butylbenzene	12.287	91	779301	12.171	ppbv	99
71) 2-Chlorotoluene	10.908	91	552725	11.203	ppbv	100
72) 4-Ethyltoluene	11.134	105	611893	11.745	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	505734	11.791	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	562952	12.030	ppbv	93
75) 1,3-Dichlorobenzene	11.613	146	362463	11.049	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	359833	11.209	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	348624	10.812	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	282288	9.673	ppbv	98
79) Naphthalene	13.520	128	561584	11.014	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	249243	9.837	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	314832	10.987	ppbv	99

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

Quant Time: Aug 01 01:12:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

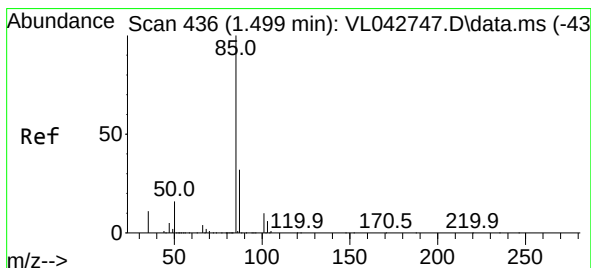
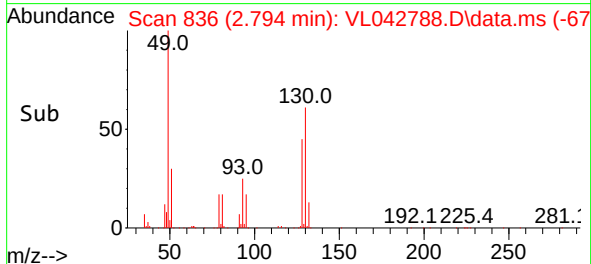
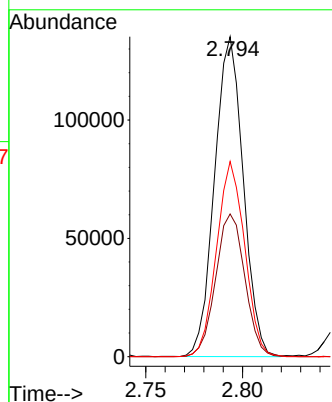
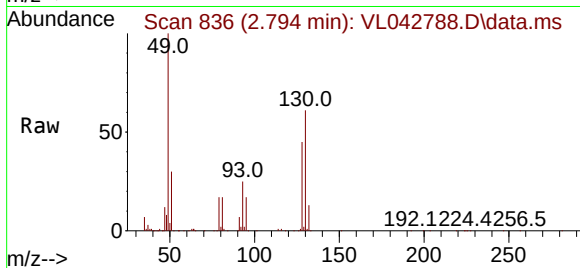




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.794 min Scan# 81
 Delta R.T. 0.010 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

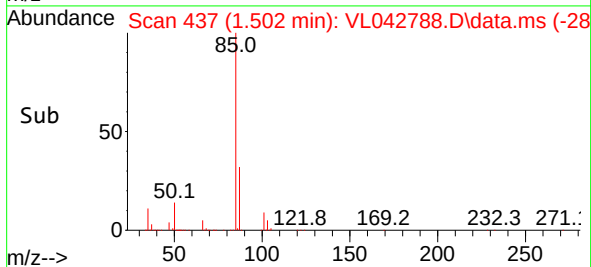
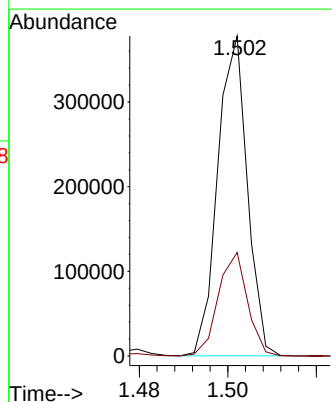
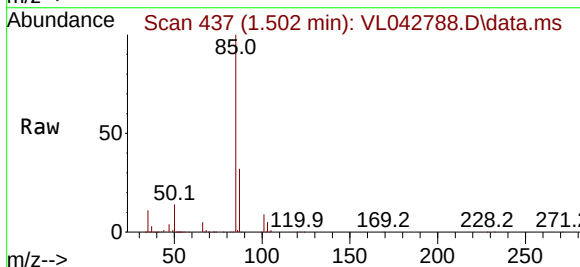
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

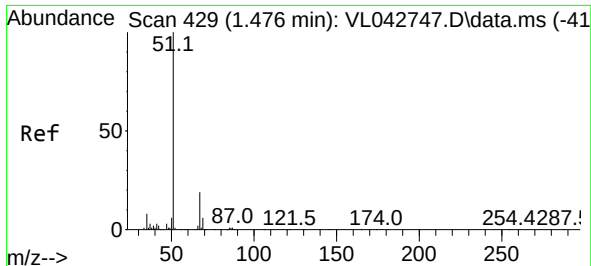
Tgt Ion: 49 Resp: 139439
 Ion Ratio Lower Upper
 49 100
 128 45.4 23.6 71.0
 130 59.7 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 9.525 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.003 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion: 85 Resp: 175602
 Ion Ratio Lower Upper
 85 100
 87 32.3 25.4 38.2

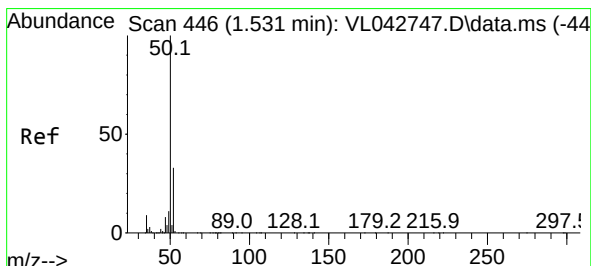
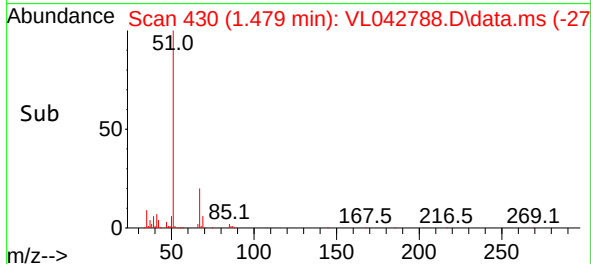
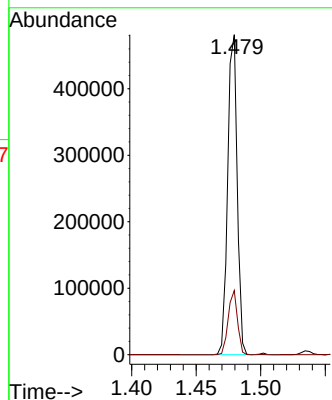
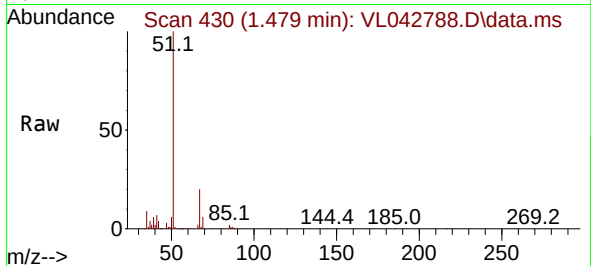




#3
Chlorodifluoromethane
Concen: 10.235 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

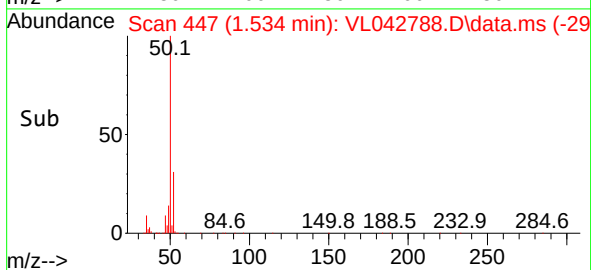
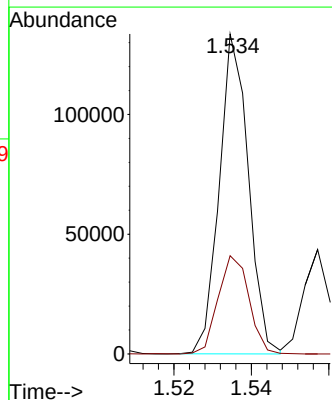
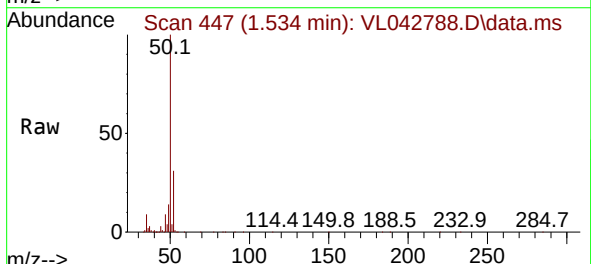
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

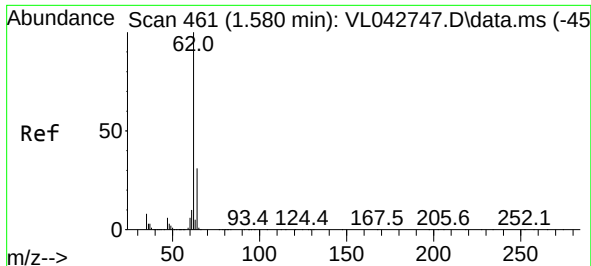
Tgt Ion: 51 Resp: 245813
Ion Ratio Lower Upper
51 100
67 19.5 15.0 22.6



#4
Chloromethane
Concen: 9.341 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 50 Resp: 69667
Ion Ratio Lower Upper
50 100
52 30.8 26.6 40.0

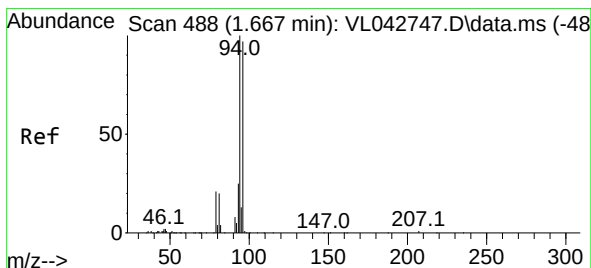
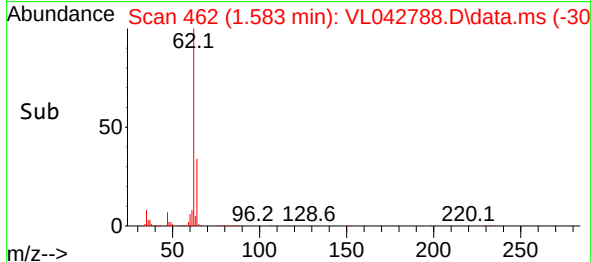
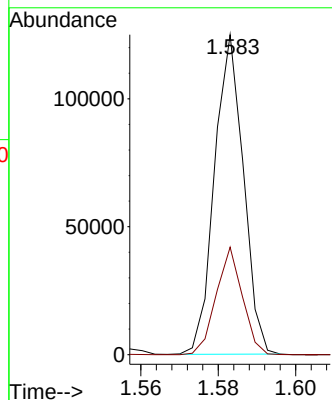
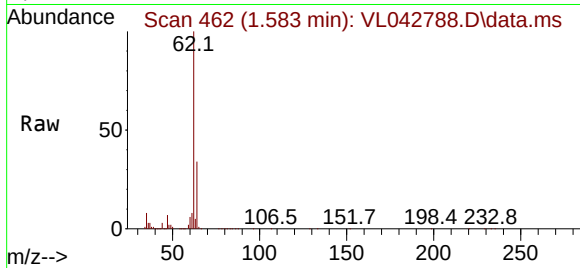




#5
 Vinyl Chloride
 Concen: 8.781 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.003 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

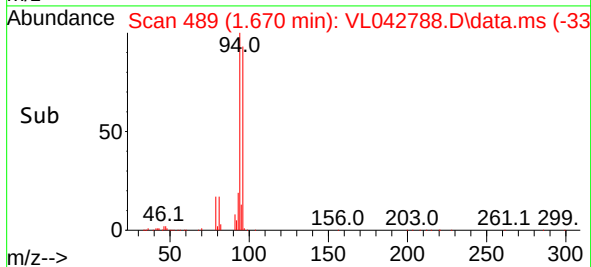
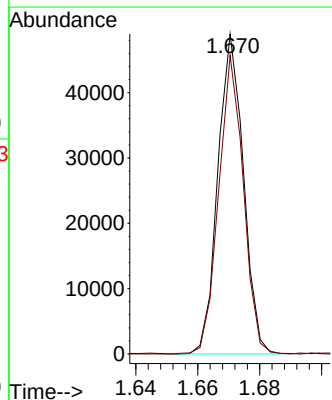
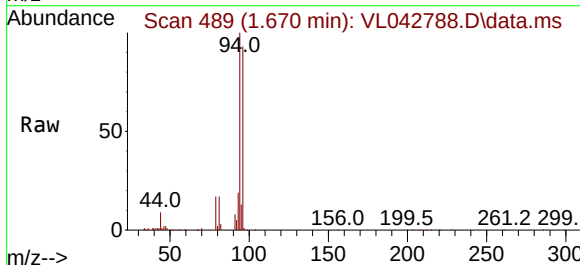
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

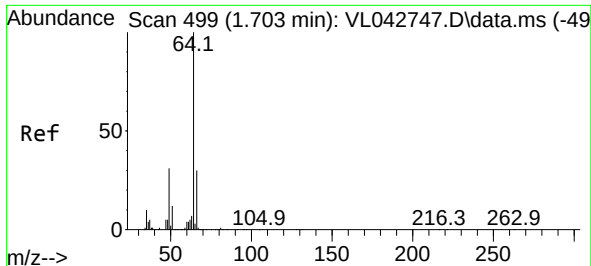
Tgt Ion: 62 Resp: 64707
 Ion Ratio Lower Upper
 62 100
 64 33.7 24.5 36.7



#6
 Bromomethane
 Concen: 9.837 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion: 94 Resp: 28024
 Ion Ratio Lower Upper
 94 100
 96 93.2 77.6 116.4

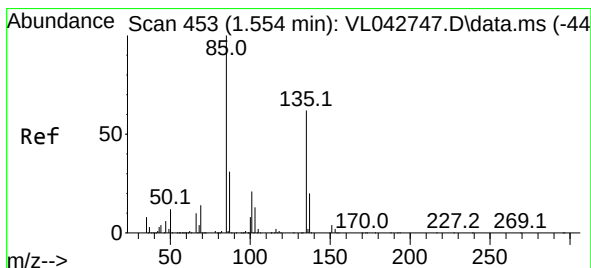
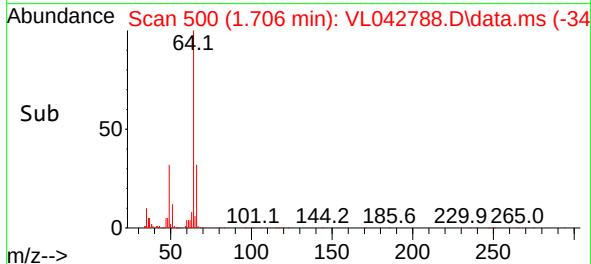
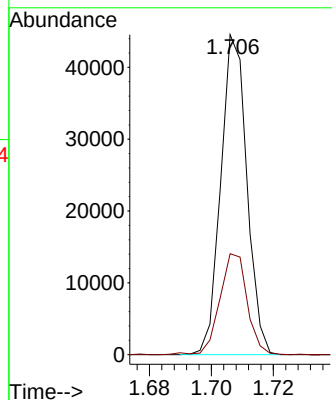
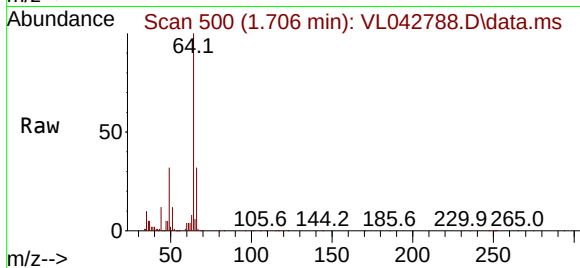




#7
Chloroethane
Concen: 9.160 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

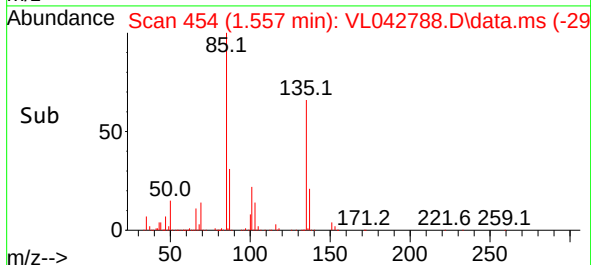
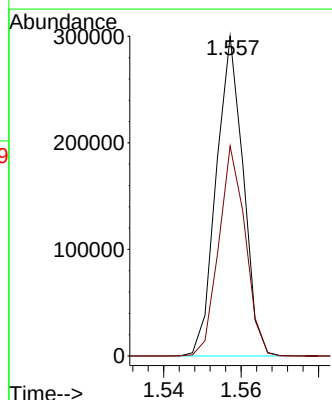
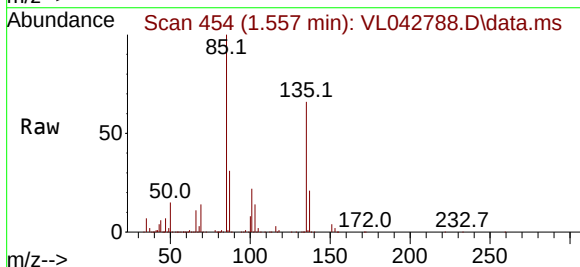
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

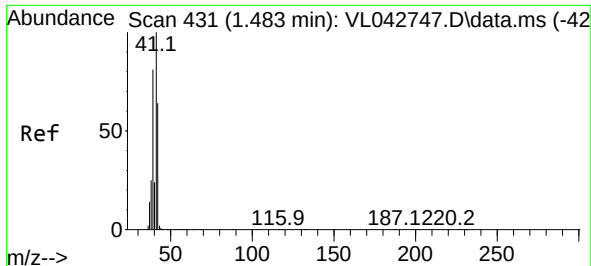
Tgt Ion: 64 Resp: 26081
Ion Ratio Lower Upper
64 100
66 31.5 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 9.571 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 85 Resp: 145116
Ion Ratio Lower Upper
85 100
135 64.7 50.6 76.0





#9

Propene

Concen: 10.882 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

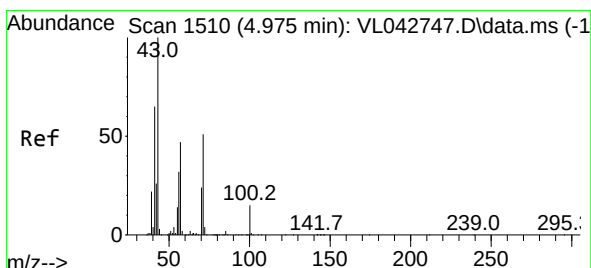
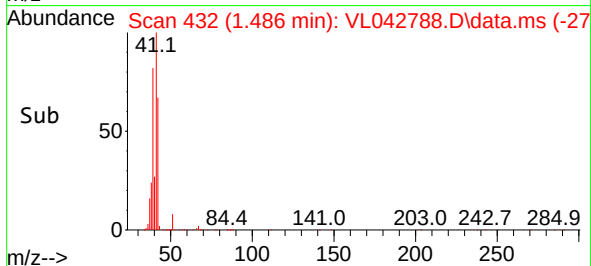
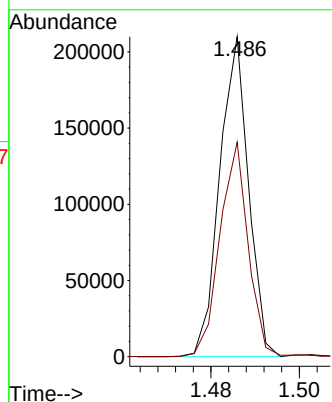
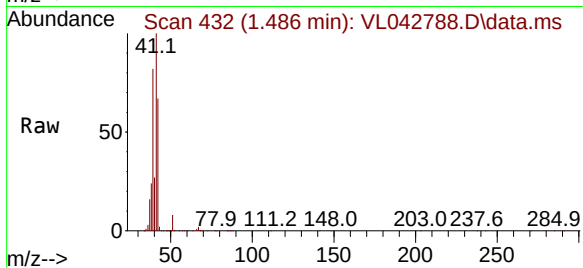
VSTDCCC010

Tgt Ion: 41 Resp: 94980

Ion Ratio Lower Upper

41 100

42 66.3 53.2 79.8



#10

Heptane

Concen: 10.950 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.016 min

Lab File: VL042788.D

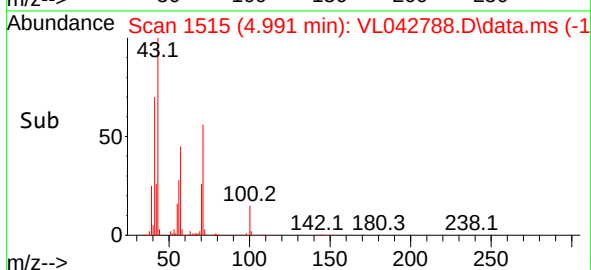
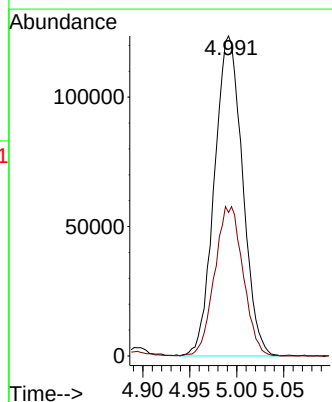
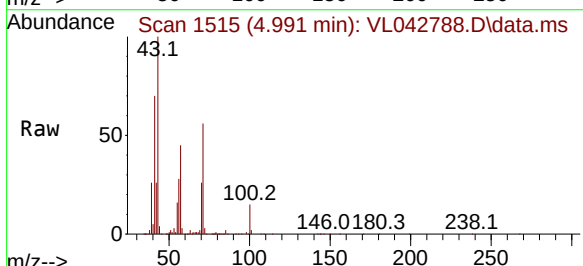
Acq: 31 Jul 2025 08:37

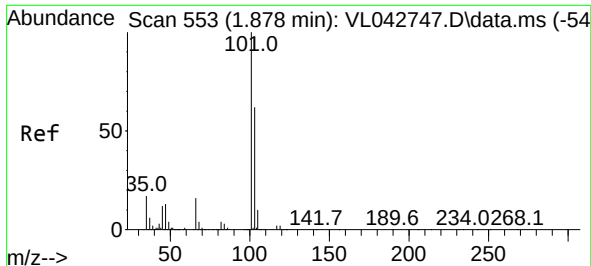
Tgt Ion: 43 Resp: 257717

Ion Ratio Lower Upper

43 100

57 47.3 39.9 59.9

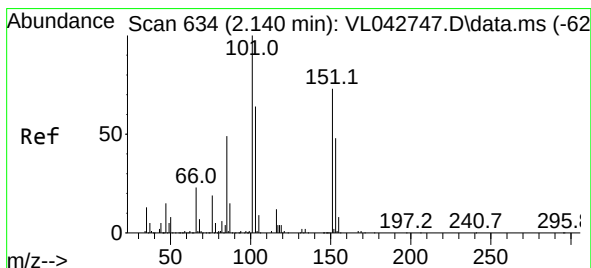
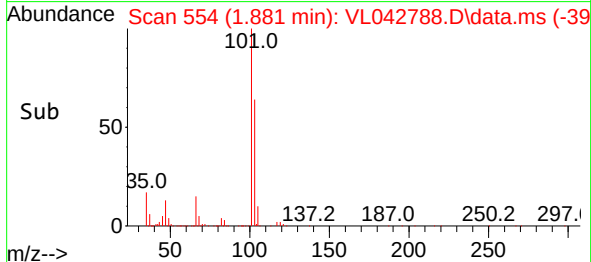
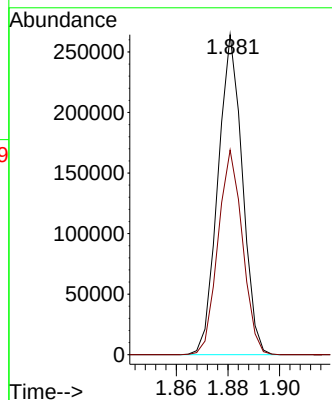
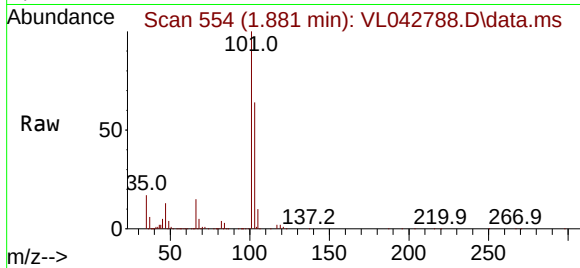




#11
 Trichlorofluoromethane
 Concen: 9.128 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. 0.003 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

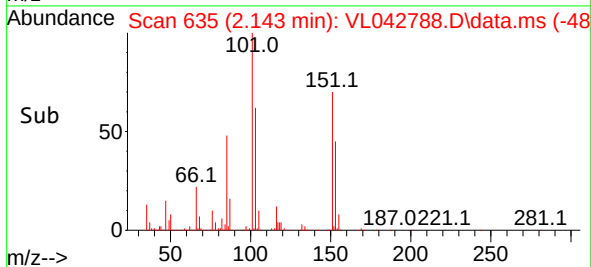
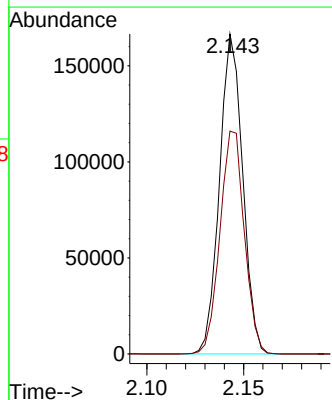
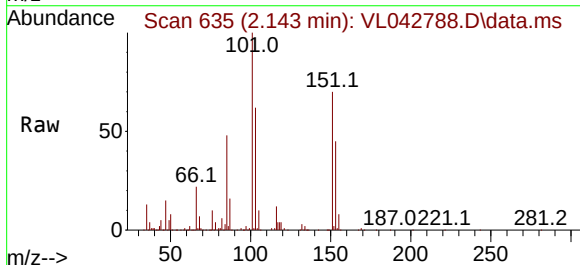
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

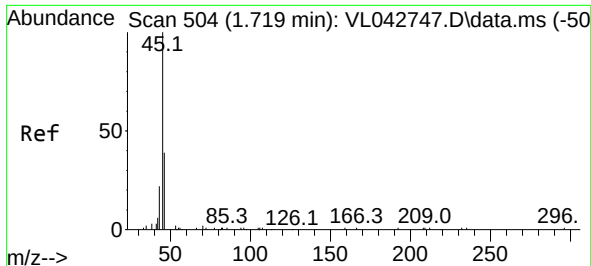
Tgt Ion:101 Resp: 173476
 Ion Ratio Lower Upper
 101 100
 103 63.9 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.600 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.003 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion:101 Resp: 138636
 Ion Ratio Lower Upper
 101 100
 151 73.2 60.5 90.7

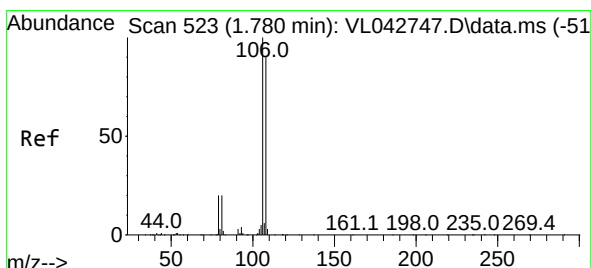
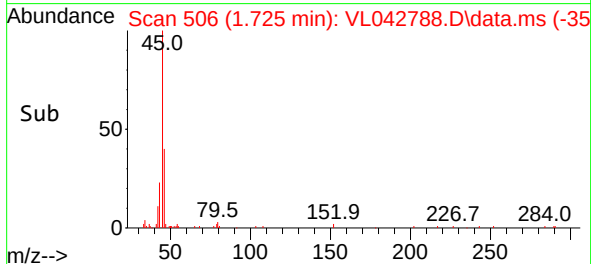
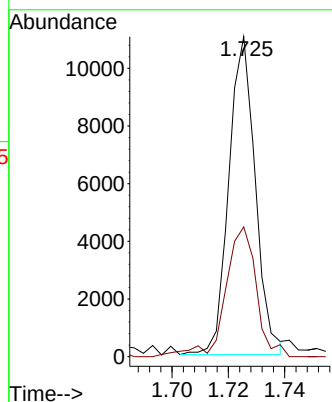
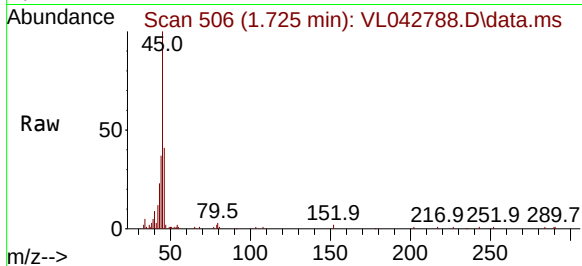




#13
Ethanol
Concen: 10.150 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.007 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

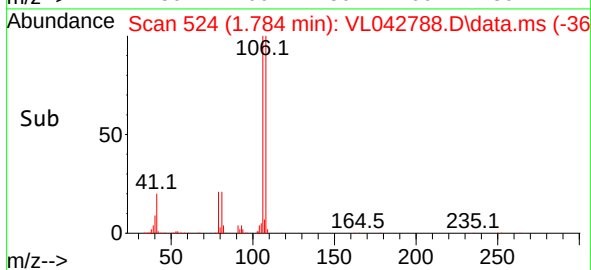
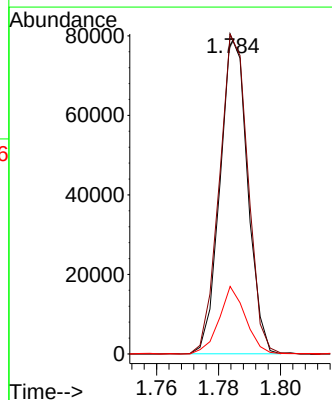
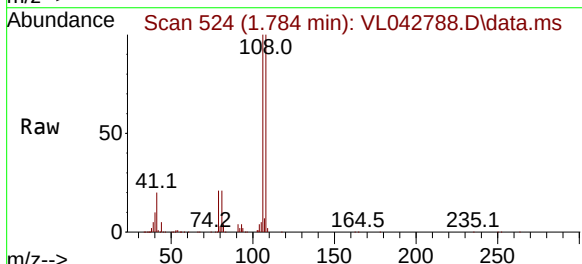
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

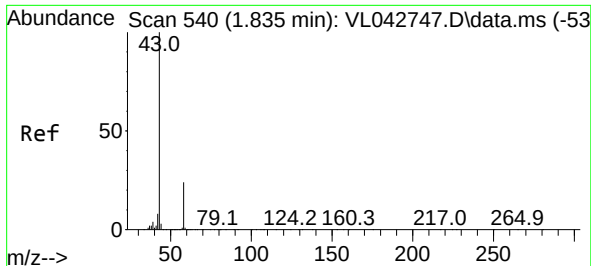
Tgt Ion: 45 Resp: 7183
Ion Ratio Lower Upper
45 100
46 47.6 17.8 71.4



#14
Bromoethene
Concen: 9.639 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 108 Resp: 49283
Ion Ratio Lower Upper
108 100
106 104.5 84.7 127.1
79 20.7 17.4 26.2

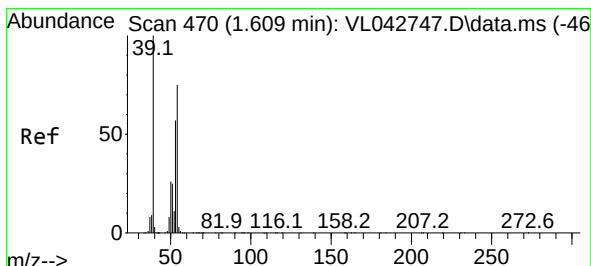
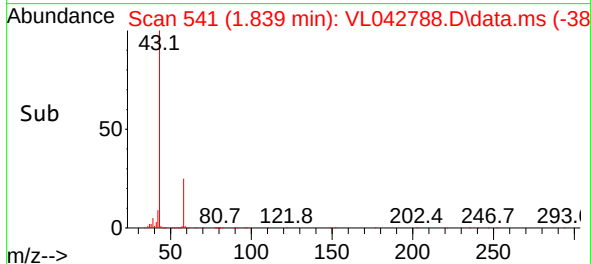
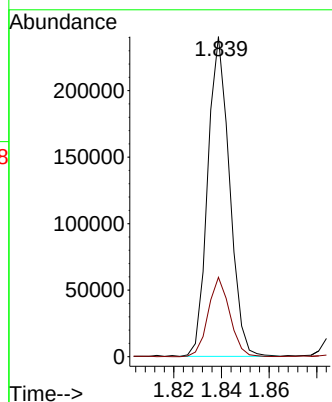
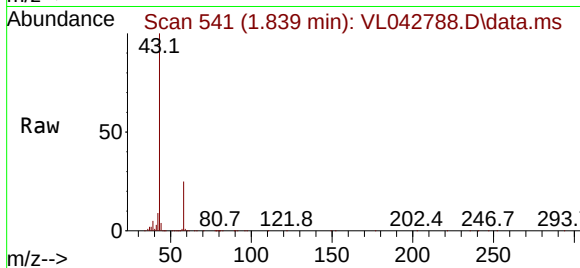




#15
Acetone
Concen: 7.924 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

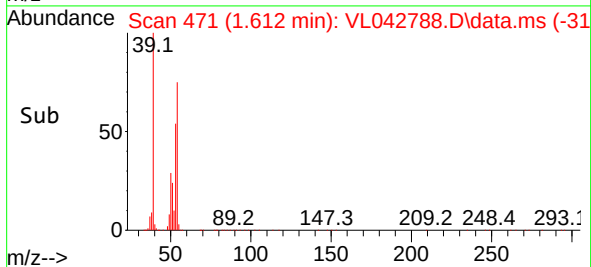
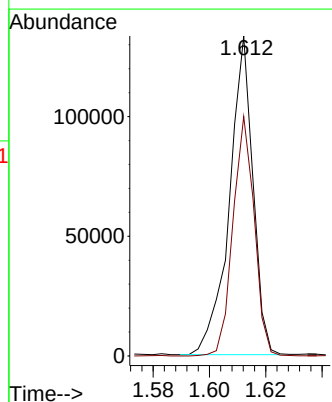
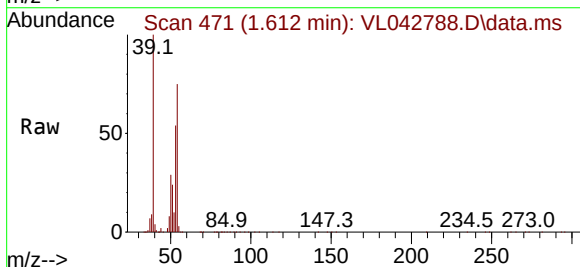
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

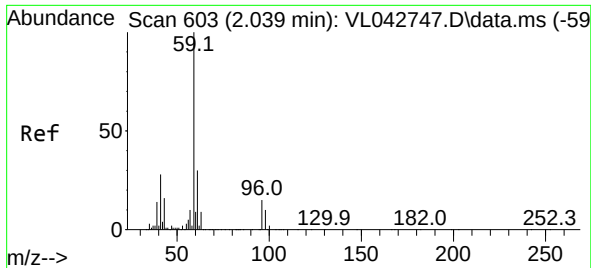
Tgt Ion: 43 Resp: 152576
Ion Ratio Lower Upper
43 100
58 24.9 19.8 29.8



#16
1,3-Butadiene
Concen: 9.425 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 39 Resp: 77405
Ion Ratio Lower Upper
39 100
54 67.6 54.5 81.7





#17

tert-Butyl alcohol

Concen: 9.237 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

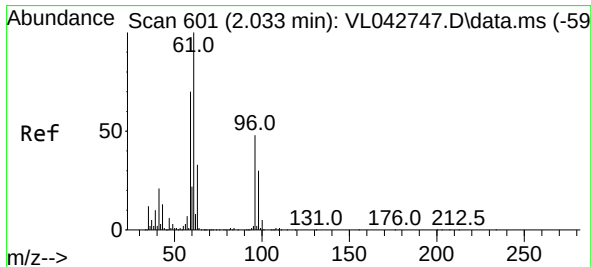
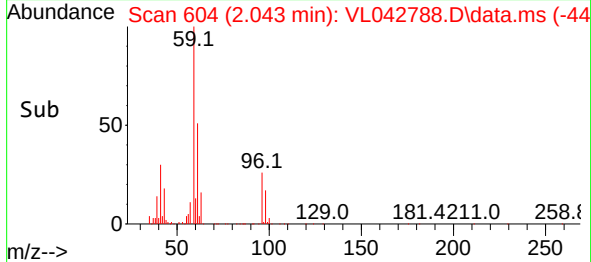
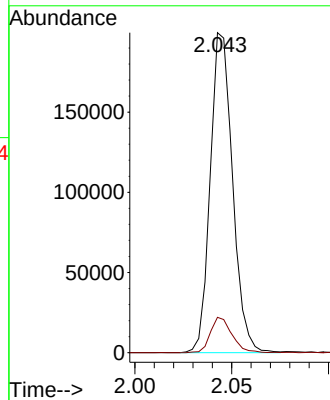
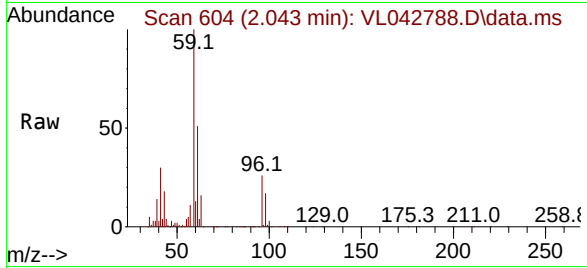
VSTDCCC010

Tgt Ion: 59 Resp: 160407

Ion Ratio Lower Upper

59 100

57 10.7 8.3 12.5



#18

1,1-Dichloroethene

Concen: 9.195 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.006 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

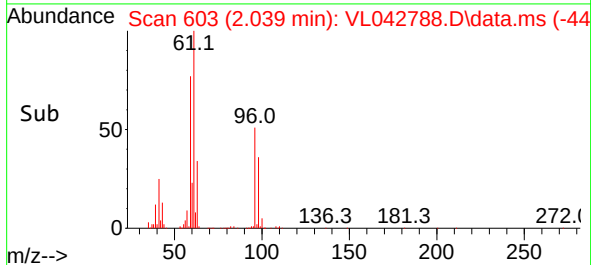
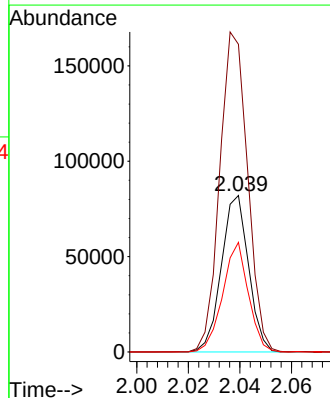
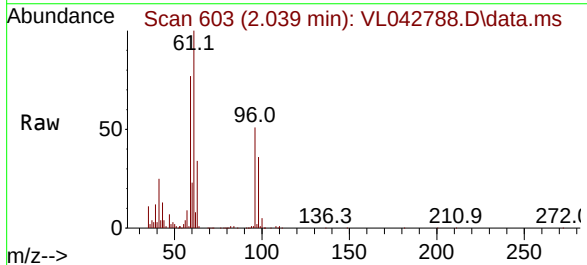
Tgt Ion: 96 Resp: 60001

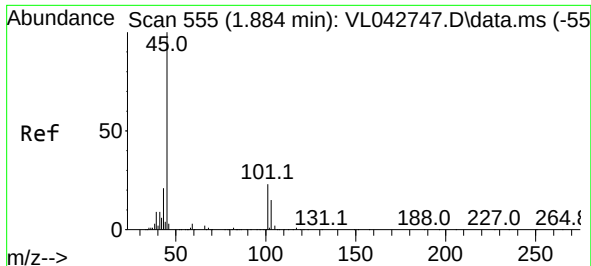
Ion Ratio Lower Upper

96 100

61 196.6 165.8 248.6

98 70.1 49.9 74.9

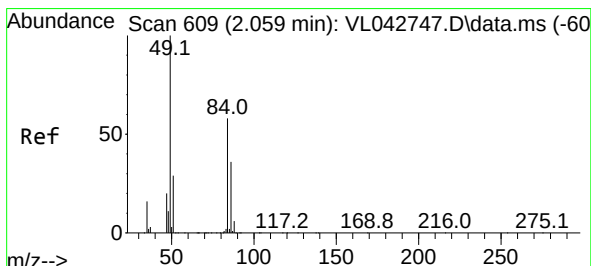
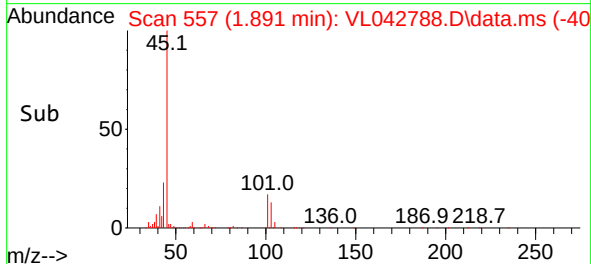
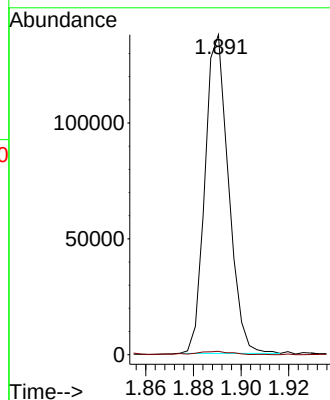
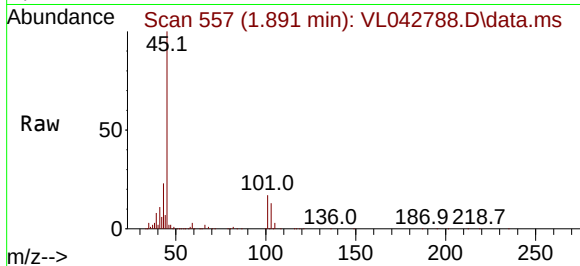




#19
Isopropyl Alcohol
Concen: 9.229 ppbv
RT: 1.891 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

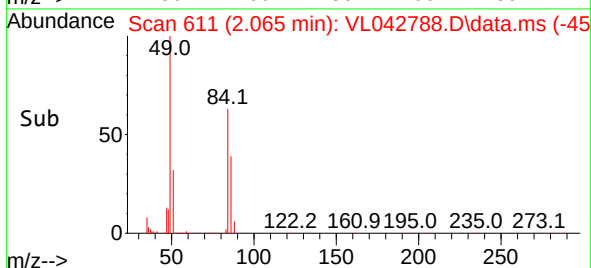
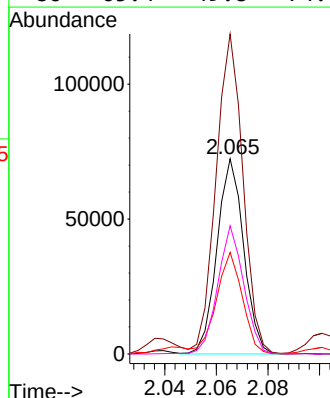
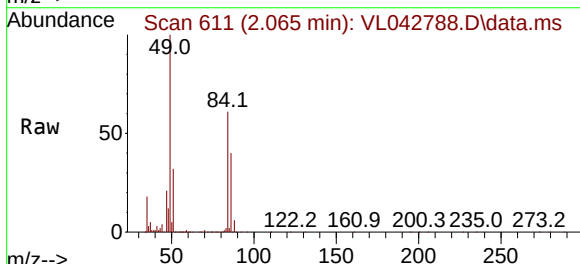
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

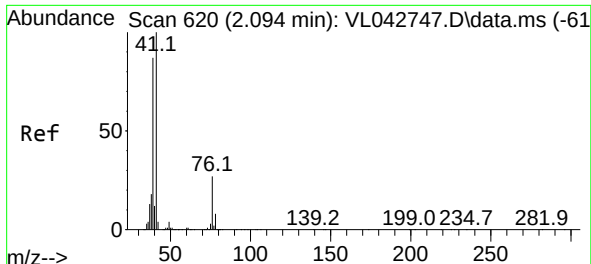
Tgt Ion: 45 Resp: 94435
Ion Ratio Lower Upper
45 100
58 40.2 30.0 45.0



#20
Methylene Chloride
Concen: 8.566 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 84 Resp: 51973
Ion Ratio Lower Upper
84 100
49 163.4 138.6 208.0
51 51.9 40.6 61.0
86 65.4 49.8 74.8





#21

Allyl Chloride

Concen: 9.930 ppbv

RT: 2.101 min Scan# 61

Delta R.T. 0.007 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

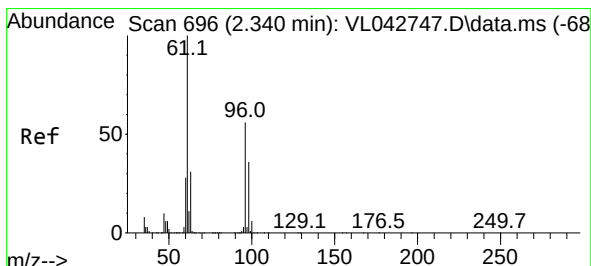
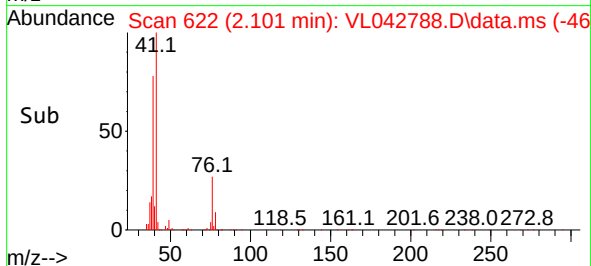
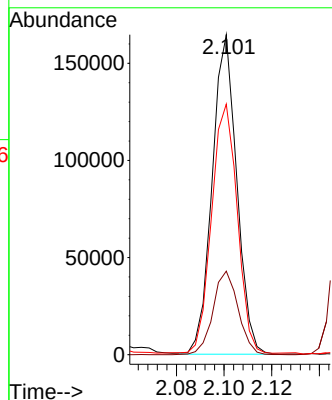
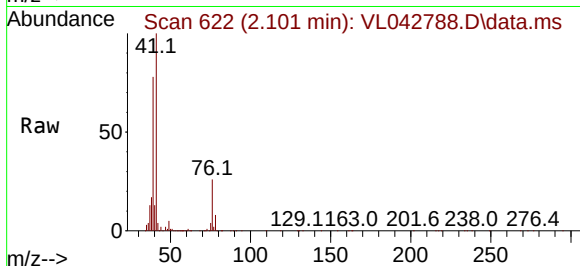
Tgt Ion: 41 Resp: 117837

Ion Ratio Lower Upper

41 100

76 26.7 21.1 31.7

39 82.2 68.3 102.5



#22

trans-1,2-Dichloroethene

Concen: 9.614 ppbv

RT: 2.344 min Scan# 697

Delta R.T. 0.003 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

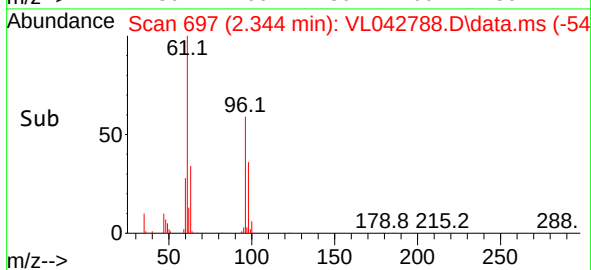
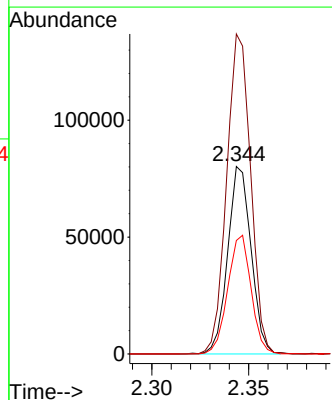
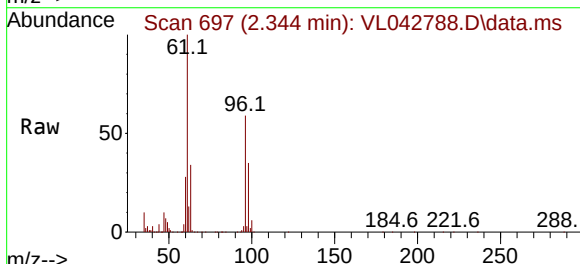
Tgt Ion: 96 Resp: 67488

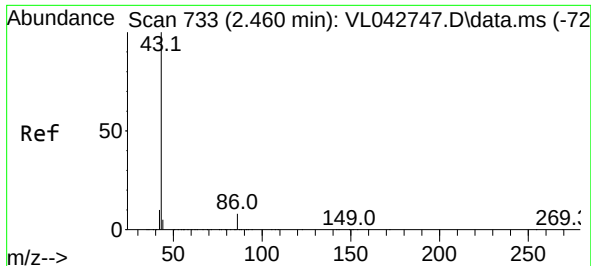
Ion Ratio Lower Upper

96 100

61 170.6 142.3 213.5

98 60.5 50.6 76.0



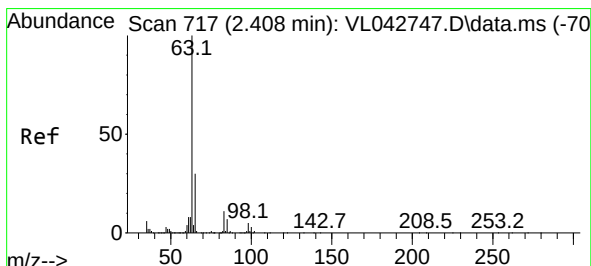
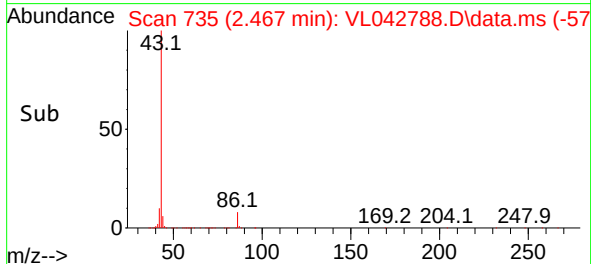
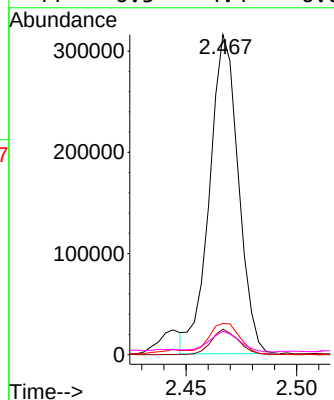
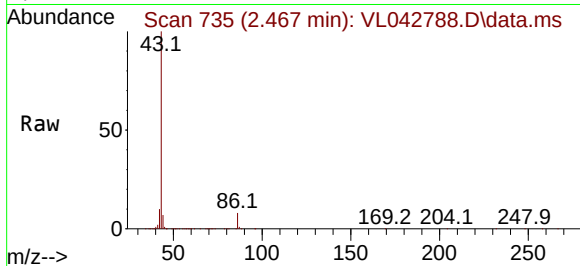


#23
 Vinyl Acetate
 Concen: 12.247 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. 0.006 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 43 Resp: 285868

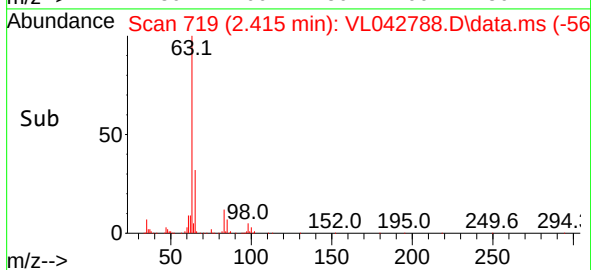
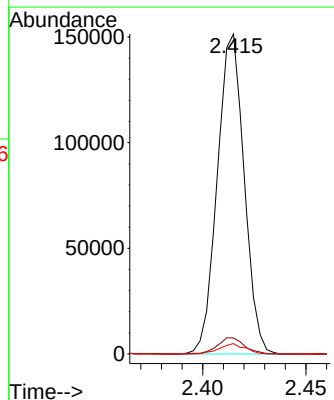
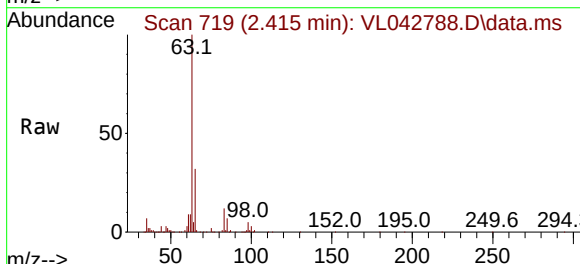
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.1	9.1
42	9.6	7.8	11.8
44	6.3	4.4	6.6

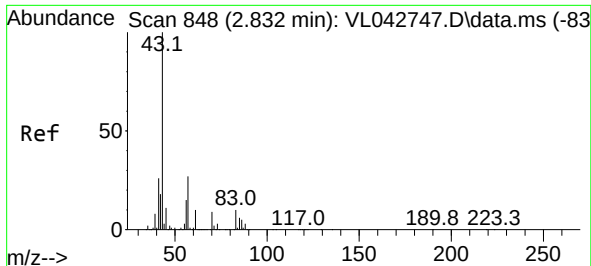


#24
 1,1-Dichloroethane
 Concen: 9.496 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.006 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion: 63 Resp: 136815

Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.5	7.4
100	3.3	1.6	4.8

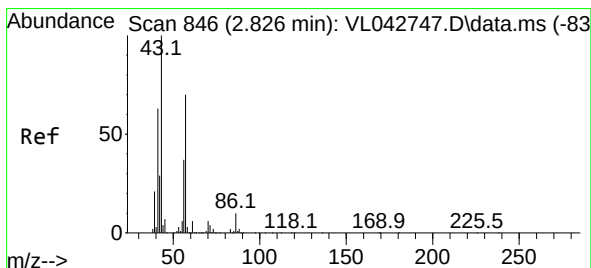
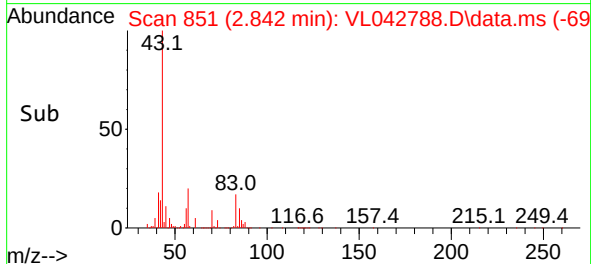
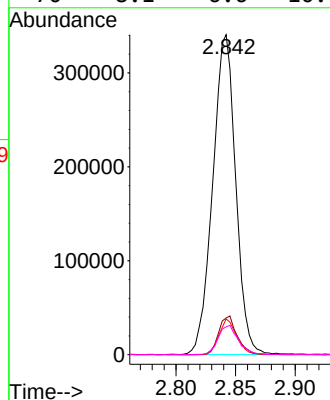
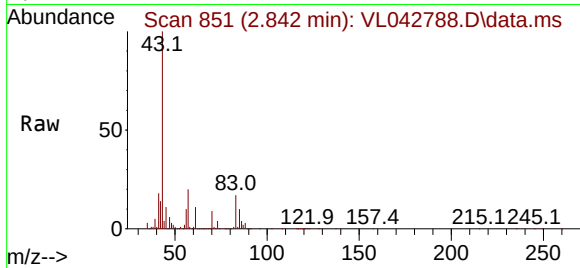




#25
Ethyl Acetate
Concen: 10.702 ppbv
RT: 2.842 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

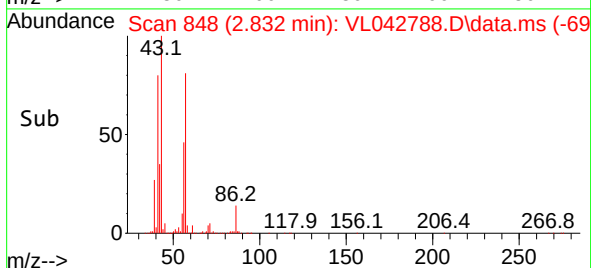
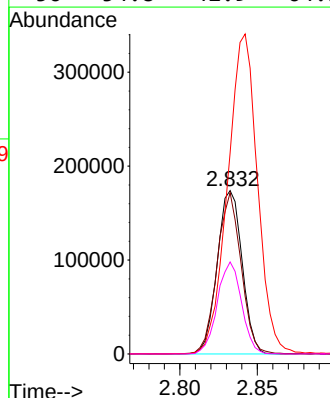
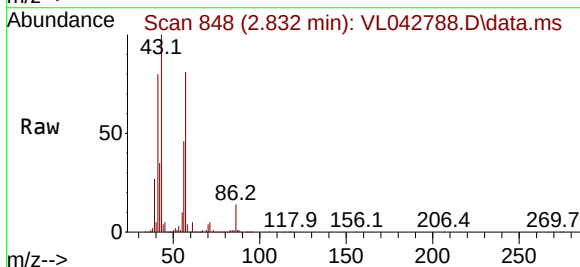
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

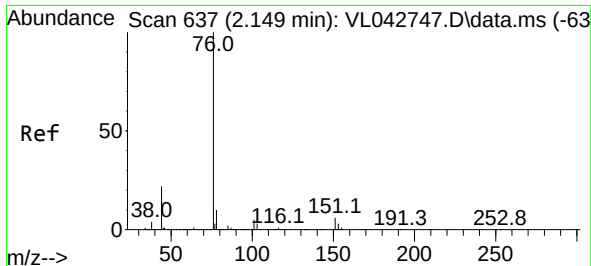
Tgt Ion: 43	Resp: 456109
Ion Ratio	Lower Upper
43 100	
45 9.8	7.8 11.6
61 8.7	6.7 10.1
70 8.1	6.6 10.0



#26
Hexane
Concen: 10.399 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 57	Resp: 194417
Ion Ratio	Lower Upper
57 100	
41 95.9	75.4 113.2
43 235.7	185.0 277.6
56 54.8	42.9 64.3

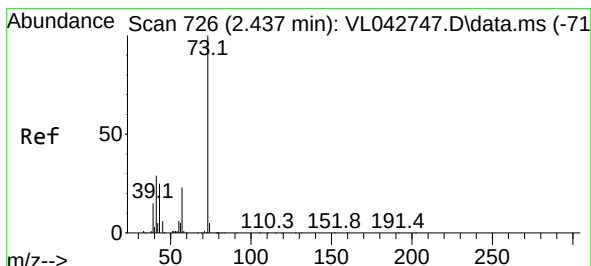
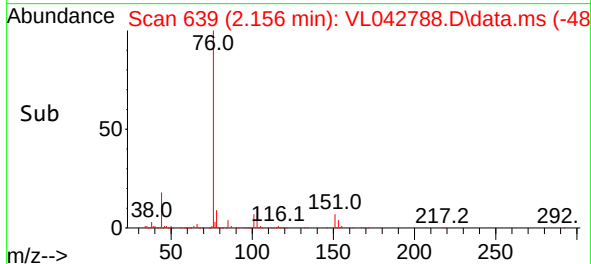
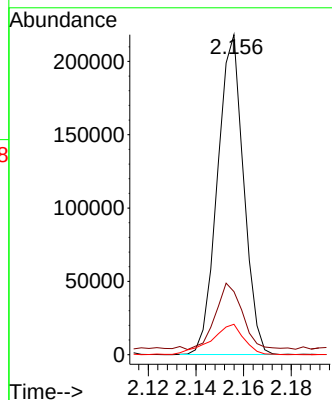
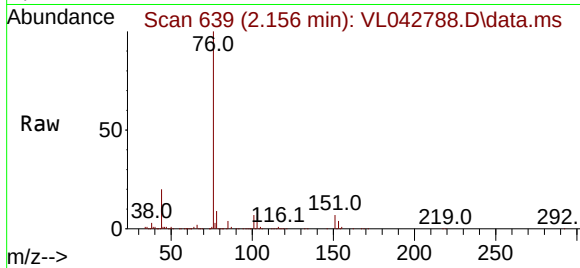




#27
Carbon Disulfide
Concen: 10.356 ppbv
RT: 2.156 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

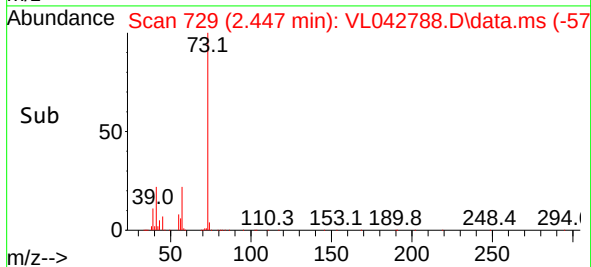
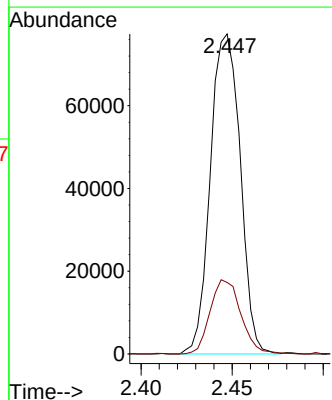
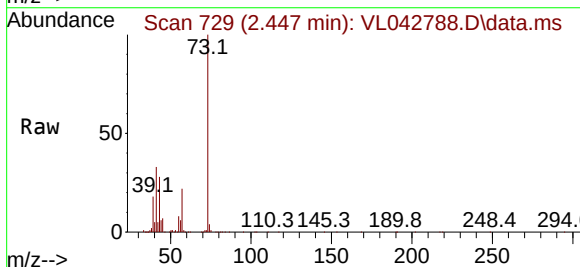
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

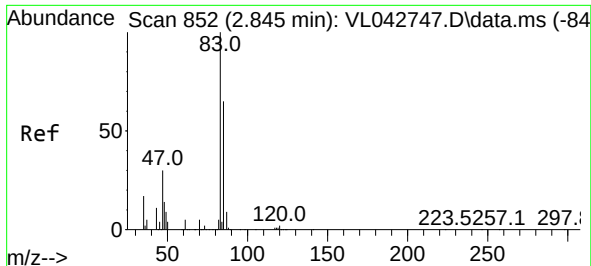
Tgt Ion: 76 Resp: 165760
Ion Ratio Lower Upper
76 100
44 21.5 19.3 28.9
78 12.1 9.9 14.9



#28
Methyl tert-Butyl Ether
Concen: 9.982 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 73 Resp: 88166
Ion Ratio Lower Upper
73 100
57 23.9 19.8 29.8

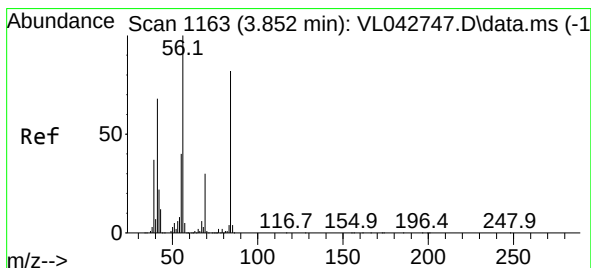
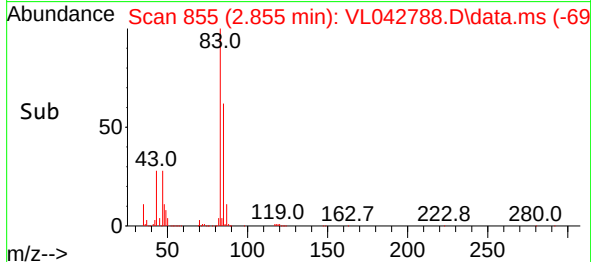
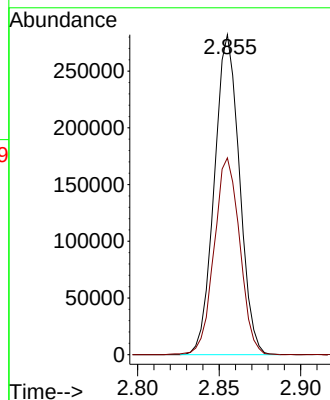
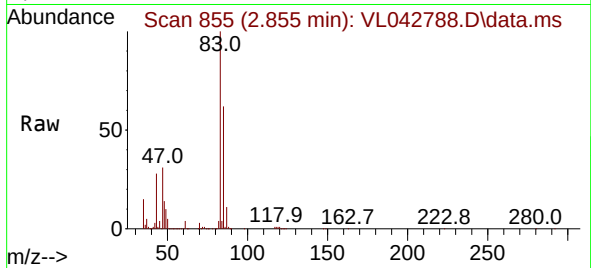




#29
Chloroform
Concen: 10.451 ppbv
RT: 2.855 min Scan# 85
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

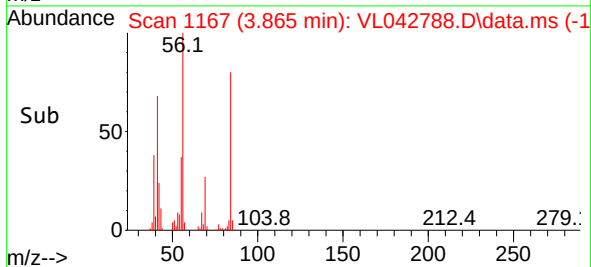
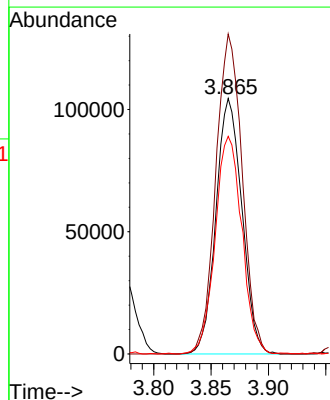
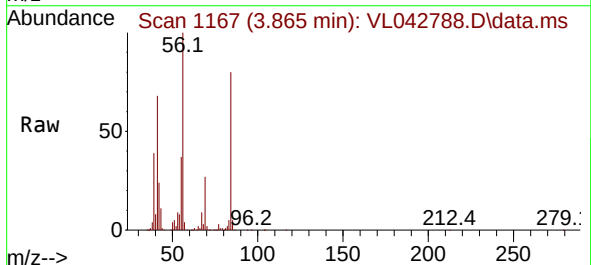
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

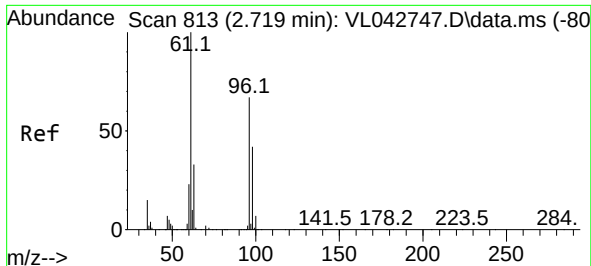
Tgt Ion: 83 Resp: 301928
Ion Ratio Lower Upper
83 100
85 61.5 52.2 78.2



#30
Cyclohexane
Concen: 10.398 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 84 Resp: 164864
Ion Ratio Lower Upper
84 100
56 126.6 97.5 146.3
41 87.2 67.2 100.8

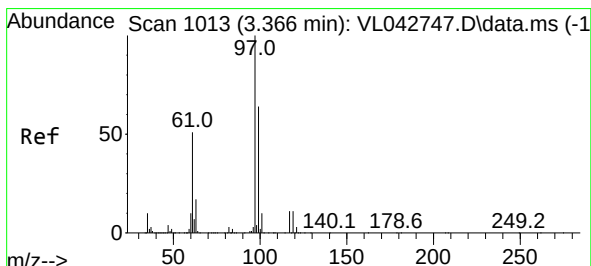
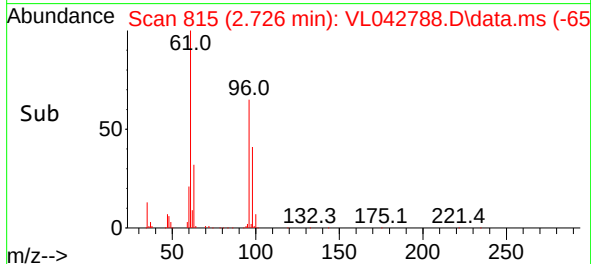
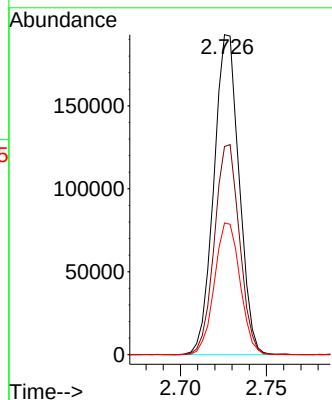
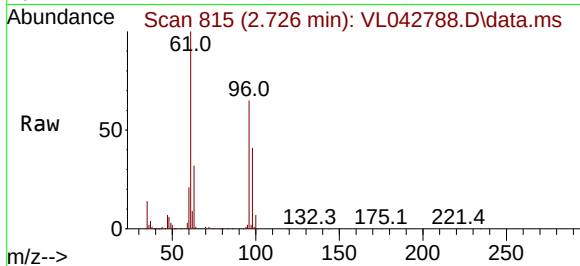




#31
 cis-1,2-Dichloroethene
 Concen: 10.250 ppbv
 RT: 2.726 min Scan# 813
 Delta R.T. 0.006 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

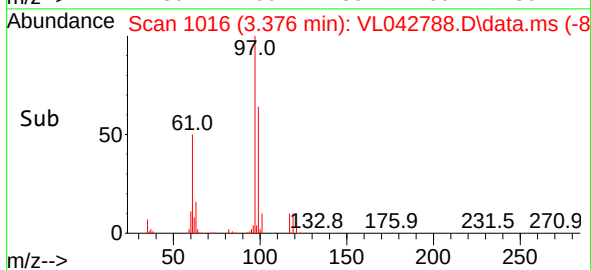
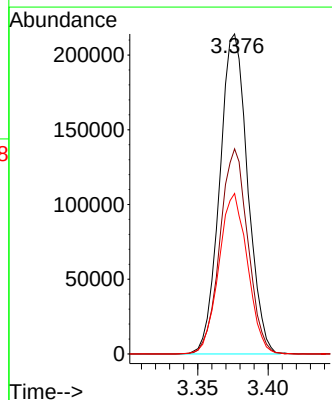
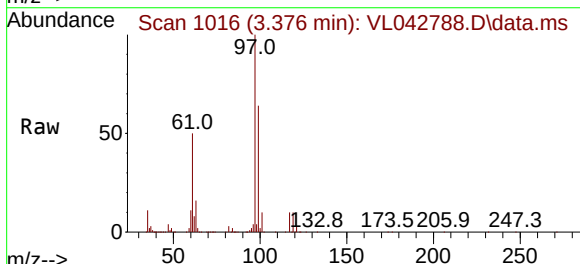
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

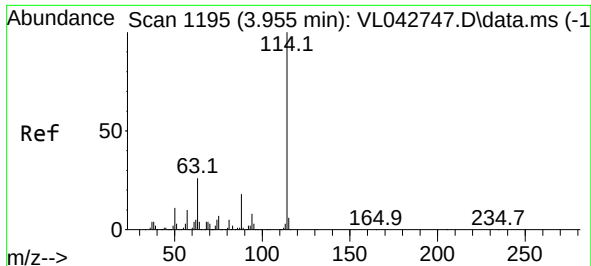
Tgt Ion: 61 Resp: 196928
 Ion Ratio Lower Upper
 61 100
 96 64.9 53.5 80.3
 98 41.2 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 9.850 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.010 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion: 97 Resp: 296432
 Ion Ratio Lower Upper
 97 100
 99 63.9 51.0 76.6
 61 51.5 40.9 61.3

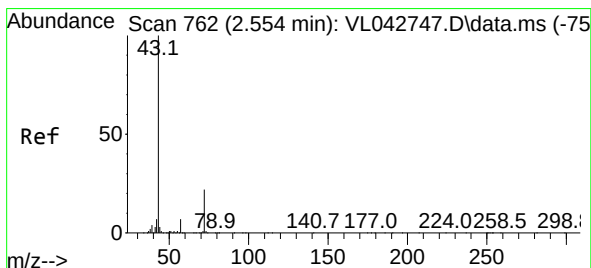
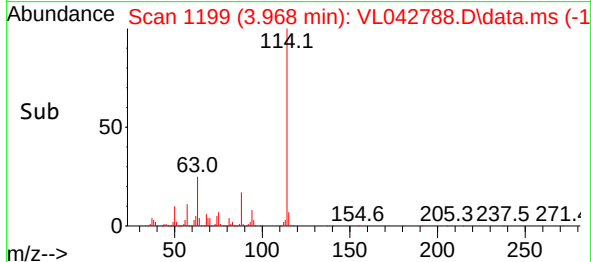
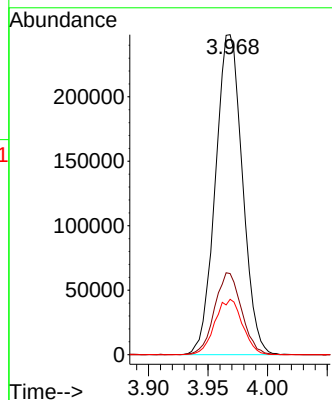
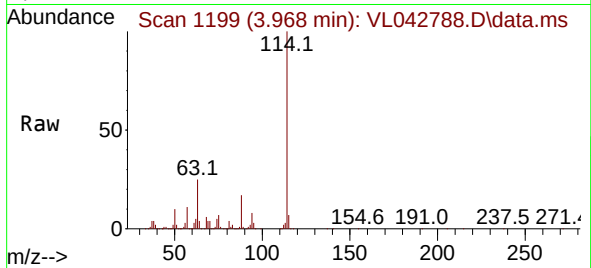




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

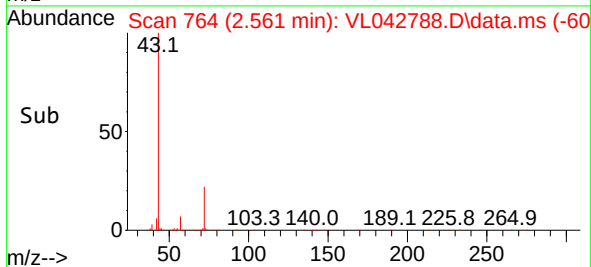
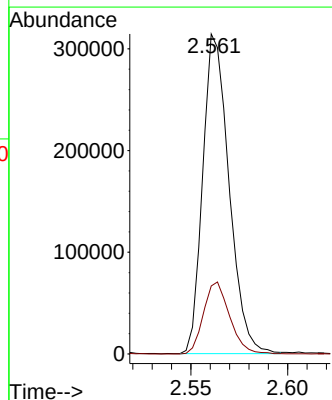
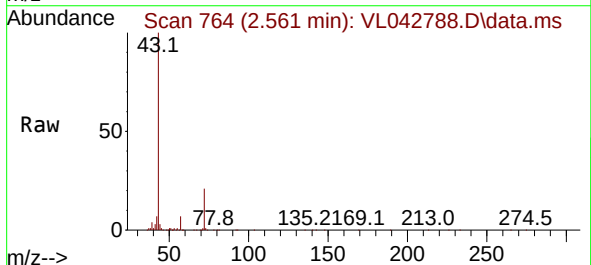
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

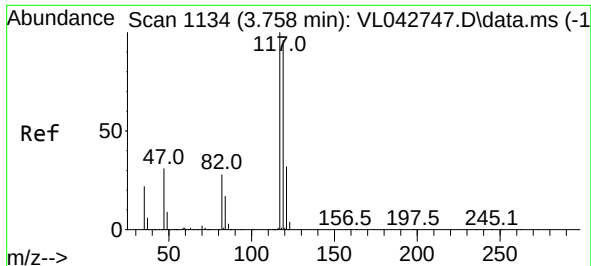
Tgt Ion:114 Resp: 391811
Ion Ratio Lower Upper
114 100
63 25.6 20.5 30.7
88 17.6 14.0 21.0



#34
2-Butanone
Concen: 10.726 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.007 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 43 Resp: 297678
Ion Ratio Lower Upper
43 100
72 22.4 17.4 26.0

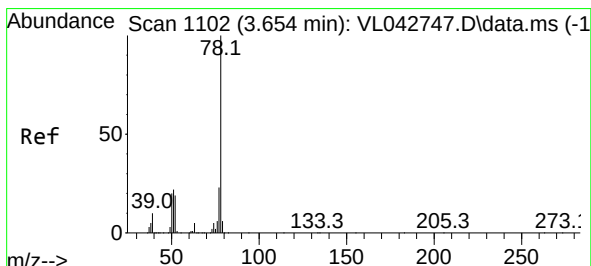
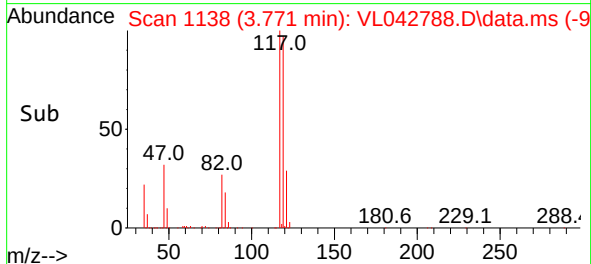
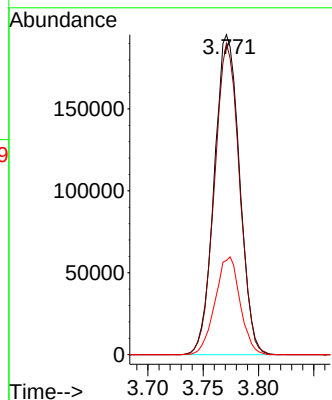
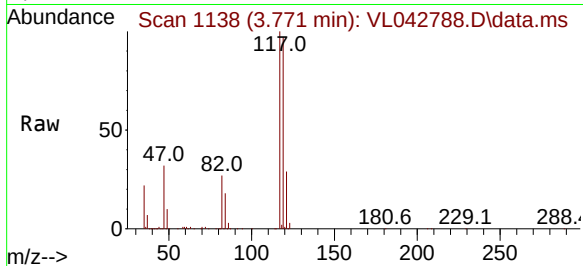




#35
Carbon Tetrachloride
Concen: 10.672 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

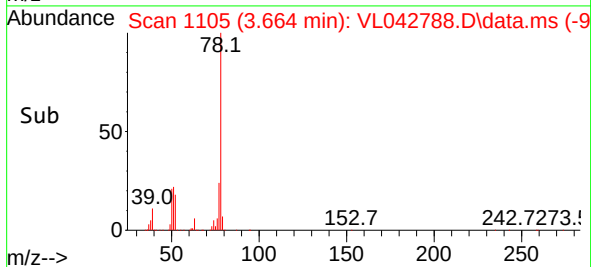
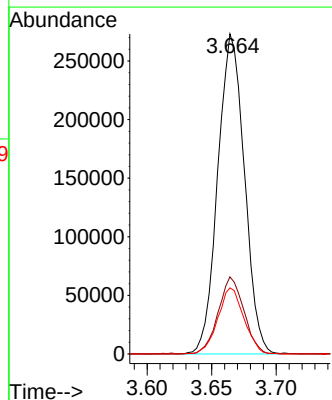
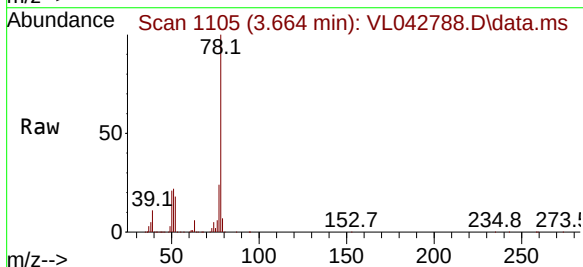
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

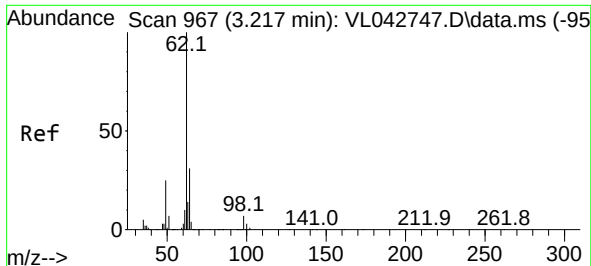
Tgt Ion:117 Resp: 310581
Ion Ratio Lower Upper
117 100
119 97.3 77.1 115.7
121 29.5 25.5 38.3



#36
Benzene
Concen: 10.548 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 78 Resp: 391679
Ion Ratio Lower Upper
78 100
77 24.0 18.5 27.7
50 20.6 16.2 24.2





#37

1,2-Dichloroethane

Concen: 10.592 ppbv

RT: 3.227 min Scan# 91

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

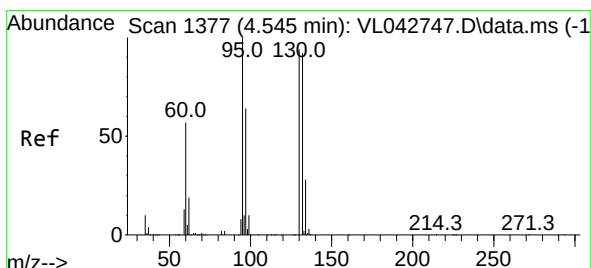
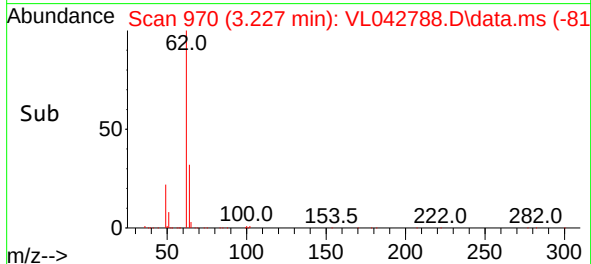
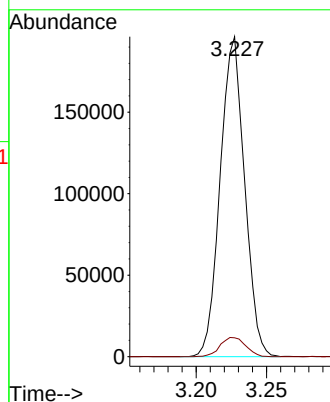
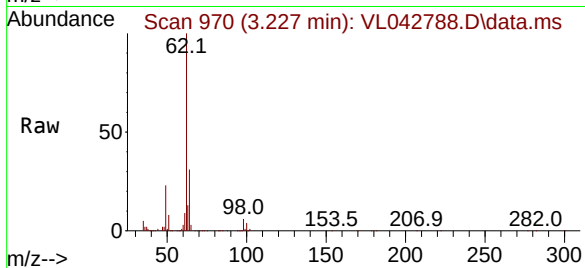
VSTDCCC010

Tgt Ion: 62 Resp: 236929

Ion Ratio Lower Upper

62 100

98 6.3 5.2 7.8



#38

Trichloroethene

Concen: 9.991 ppbv

RT: 4.561 min Scan# 1382

Delta R.T. 0.016 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Tgt Ion:130 Resp: 178226

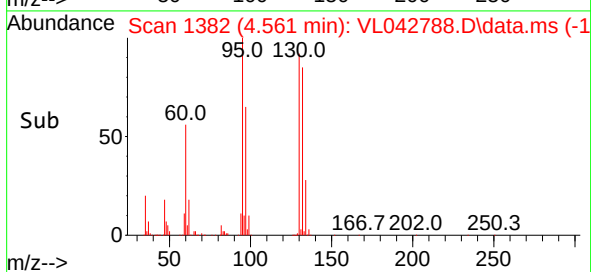
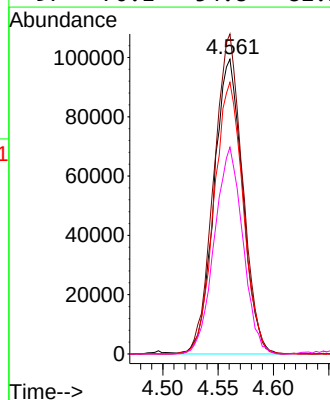
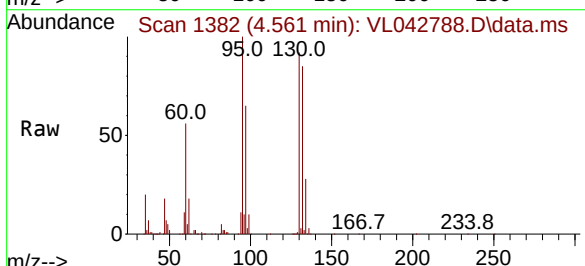
Ion Ratio Lower Upper

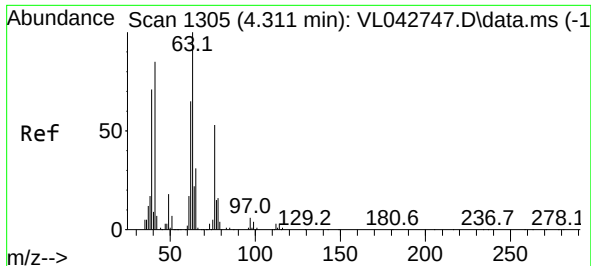
130 100

95 108.2 85.4 128.2

132 92.1 78.2 117.2

97 70.1 54.8 82.2





#39

1,2-Dichloropropane

Concen: 10.505 ppbv

RT: 4.324 min Scan# 11

Delta R.T. 0.013 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

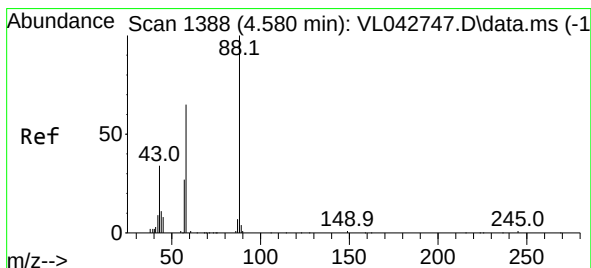
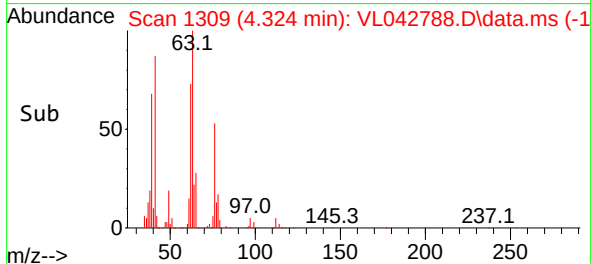
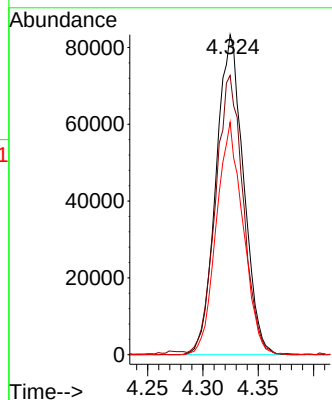
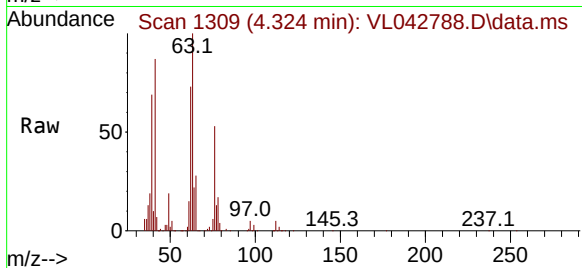
Tgt Ion: 63 Resp: 143986

Ion Ratio Lower Upper

63 100

41 87.0 68.2 102.4

62 72.7 52.0 78.0



#40

1,4-Dioxane

Concen: 10.049 ppbv

RT: 4.596 min Scan# 1393

Delta R.T. 0.016 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Tgt Ion: 88 Resp: 64201

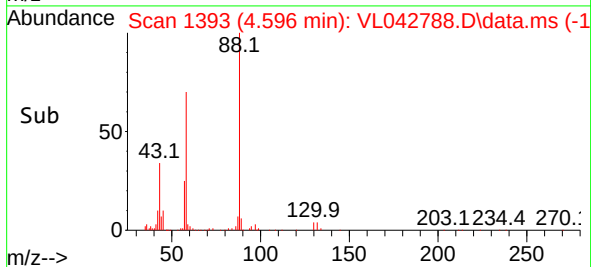
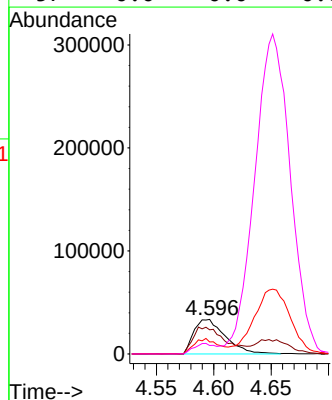
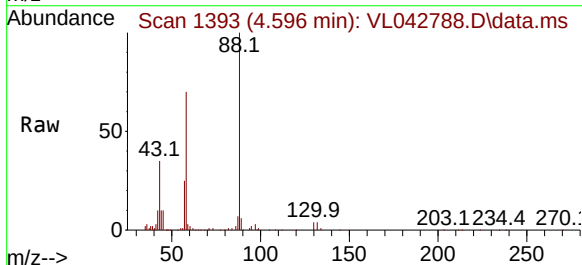
Ion Ratio Lower Upper

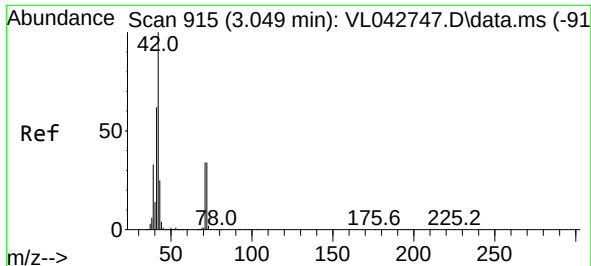
88 100

58 79.6 58.8 88.2

43 33.4 28.9 43.3

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 11.447 ppbv

RT: 3.059 min Scan# 915

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

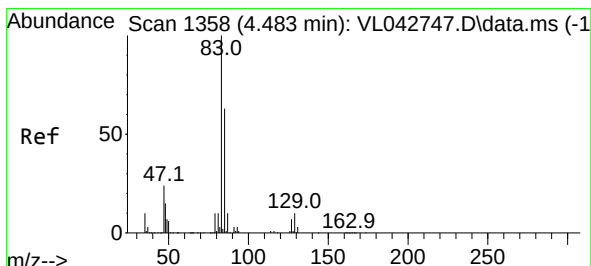
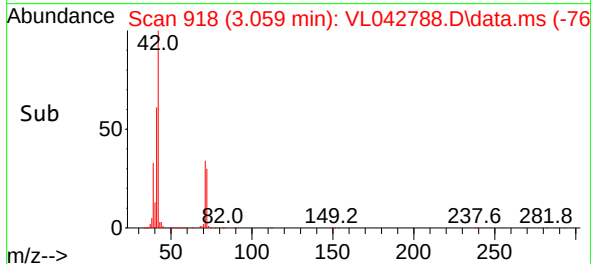
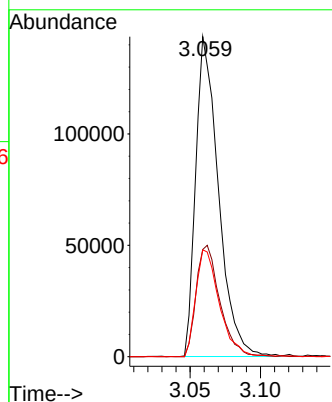
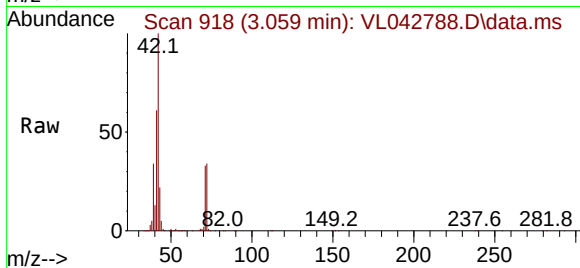
MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 42 Resp: 161670

Ion	Ratio	Lower	Upper
42	100		
72	36.3	30.9	46.3
71	34.9	28.6	43.0



#42

Bromodichloromethane

Concen: 11.125 ppbv

RT: 4.499 min Scan# 1363

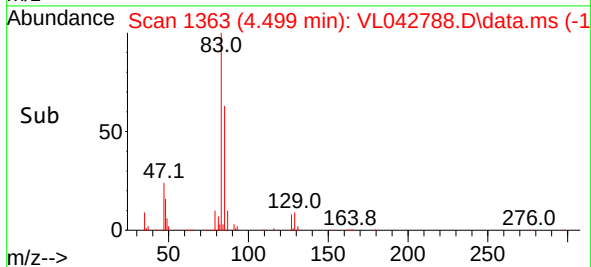
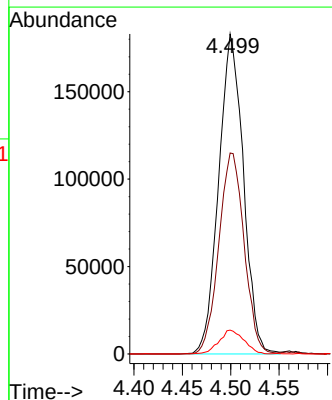
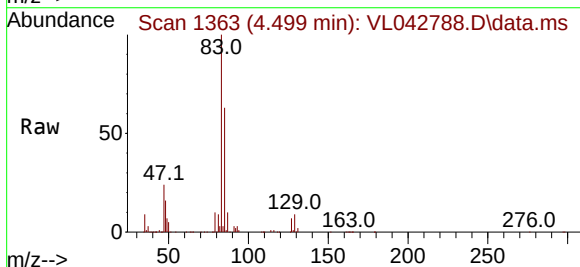
Delta R.T. 0.016 min

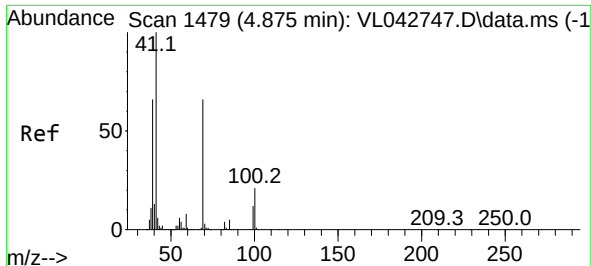
Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Tgt Ion: 83 Resp: 324091

Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.2	75.4
127	7.5	5.4	8.2

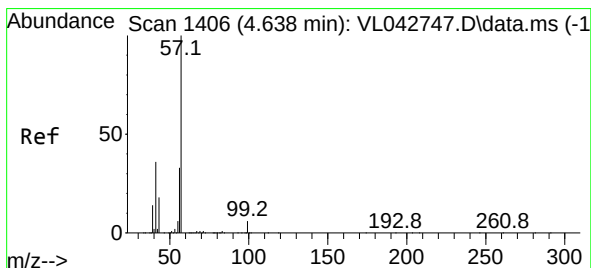
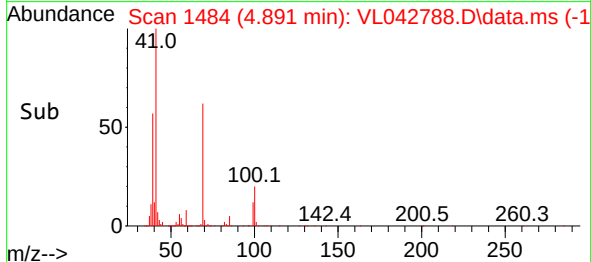
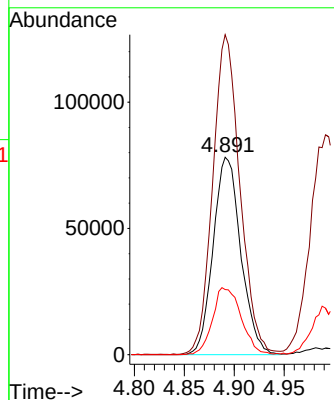
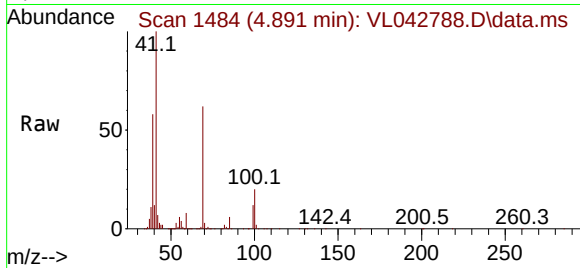




#43
Methyl Methacrylate
Concen: 11.418 ppbv
RT: 4.891 min Scan# 1479
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

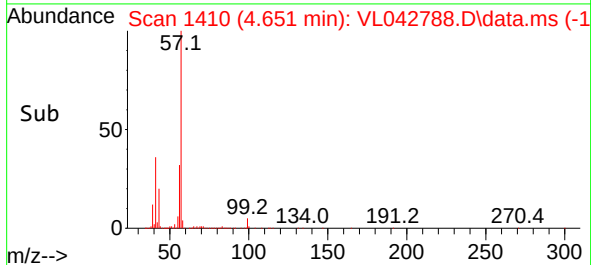
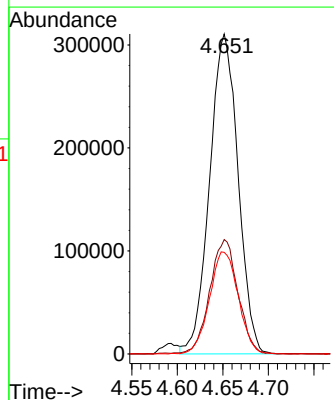
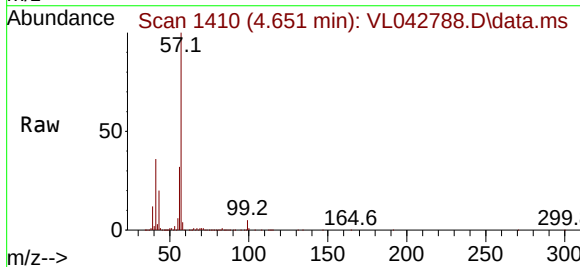
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

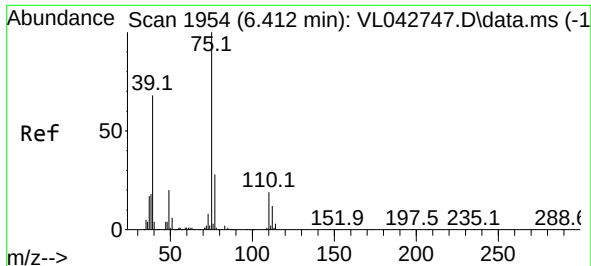
Tgt Ion: 69 Resp: 150704
Ion Ratio Lower Upper
69 100
41 159.5 125.7 188.5
100 35.3 28.6 42.8



#44
2,2,4-Trimethylpentane
Concen: 11.142 ppbv
RT: 4.651 min Scan# 1410
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 57 Resp: 674333
Ion Ratio Lower Upper
57 100
41 35.8 28.3 42.5
56 32.4 25.8 38.6

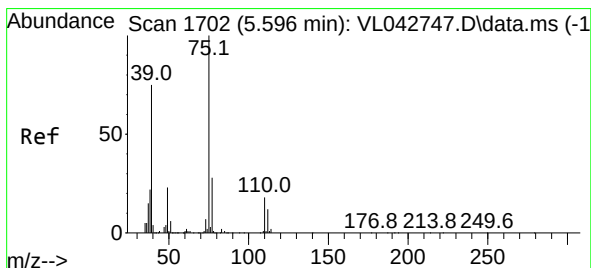
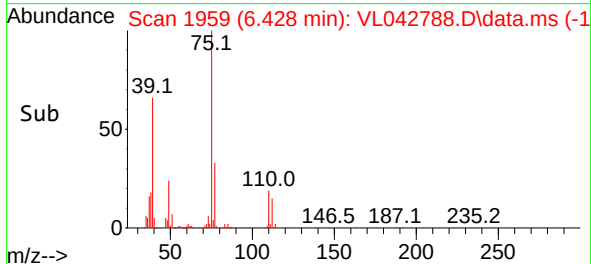
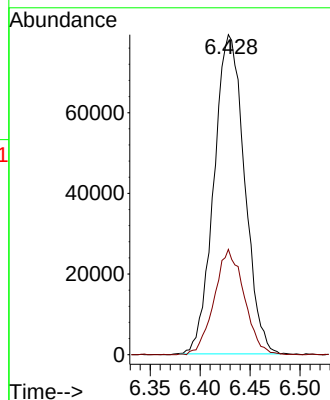
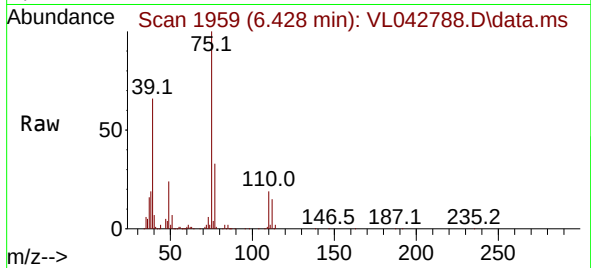




#45
 t-1,3-Dichloropropene
 Concen: 11.393 ppbv
 RT: 6.428 min Scan# 1954
 Delta R.T. 0.016 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

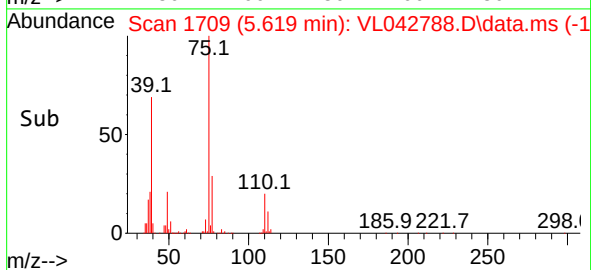
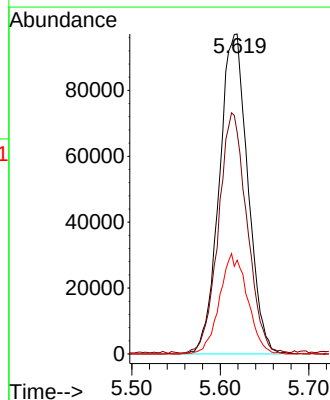
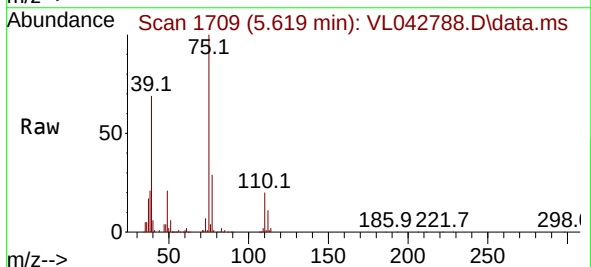
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

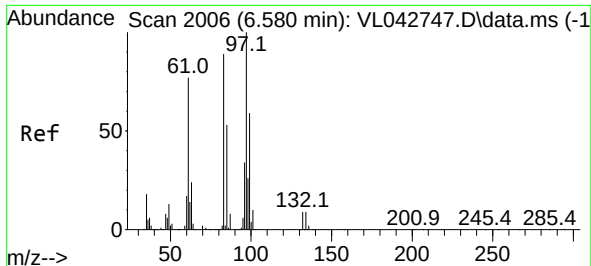
Tgt Ion: 75 Resp: 168632
 Ion Ratio Lower Upper
 75 100
 77 32.9 22.4 33.6



#46
 cis-1,3-Dichloropropene
 Concen: 11.589 ppbv
 RT: 5.619 min Scan# 1709
 Delta R.T. 0.023 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion: 75 Resp: 217364
 Ion Ratio Lower Upper
 75 100
 39 68.9 60.2 90.2
 77 29.3 22.6 34.0

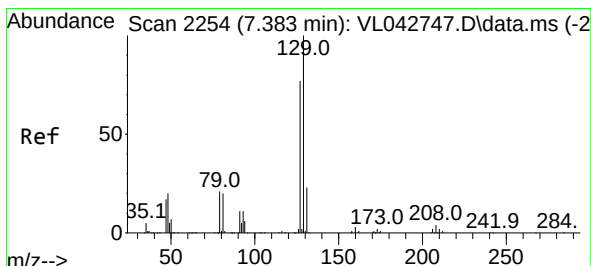
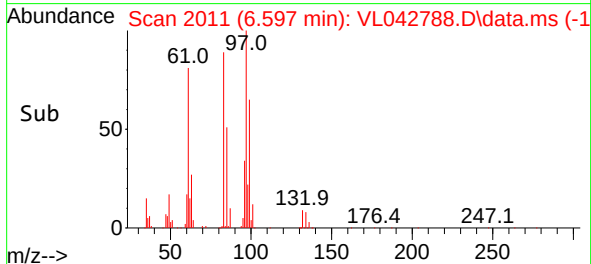
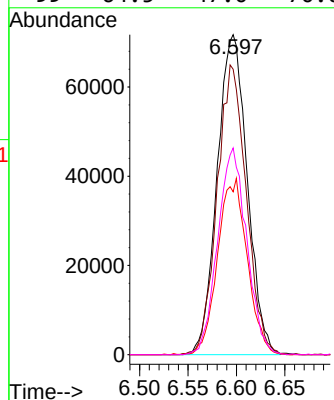
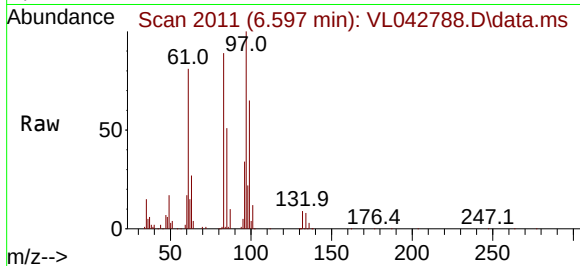




#47
1,1,2-Trichloroethane
Concen: 10.618 ppbv
RT: 6.597 min Scan# 20
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

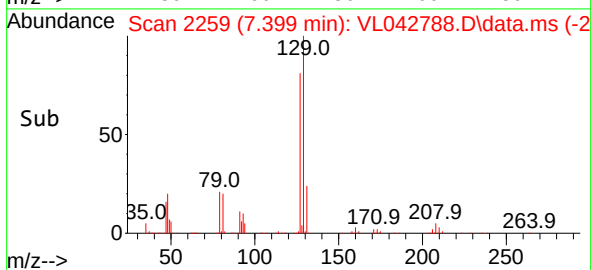
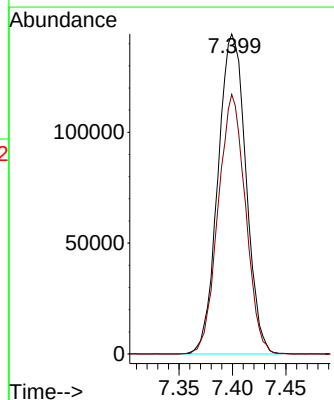
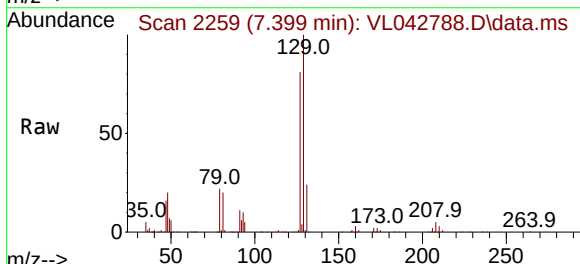
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

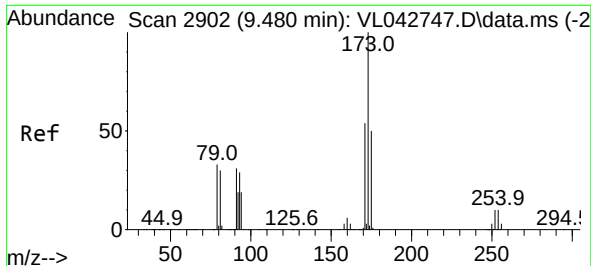
Tgt Ion: 97 Resp: 155145
Ion Ratio Lower Upper
97 100
83 89.2 71.1 106.7
85 50.8 43.0 64.4
99 64.5 47.0 70.6



#48
Dibromochloromethane
Concen: 11.346 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 129 Resp: 263177
Ion Ratio Lower Upper
129 100
127 79.2 38.7 116.1

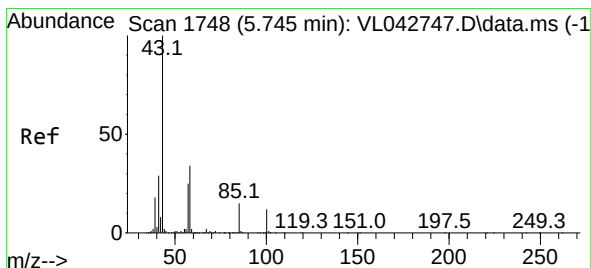
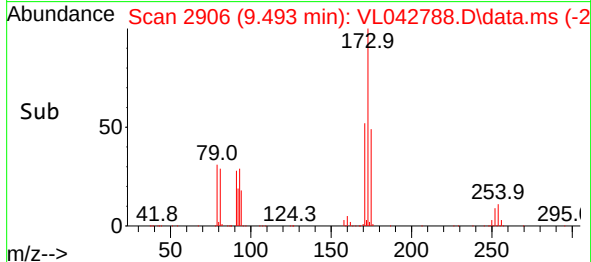
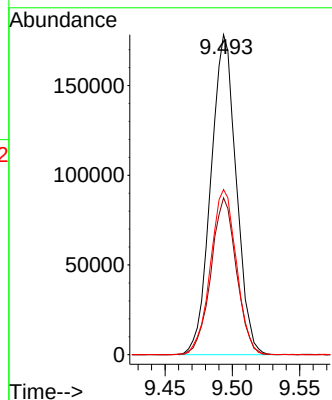
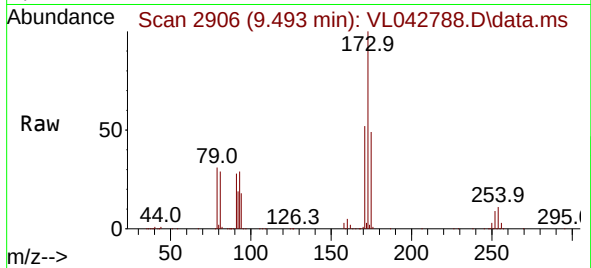




#49
Bromoform
Concen: 11.551 ppbv
RT: 9.493 min Scan# 2906
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

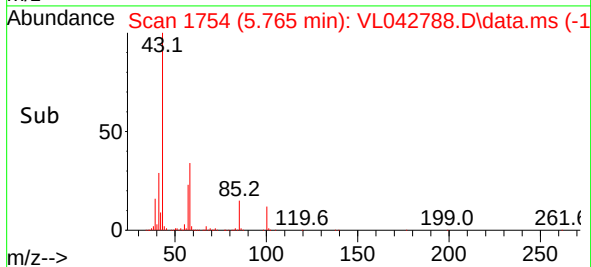
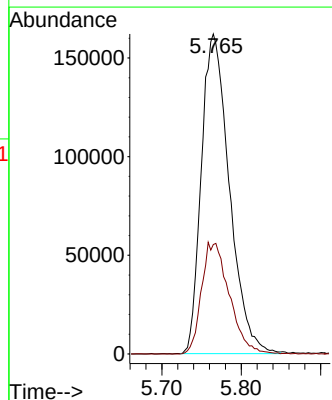
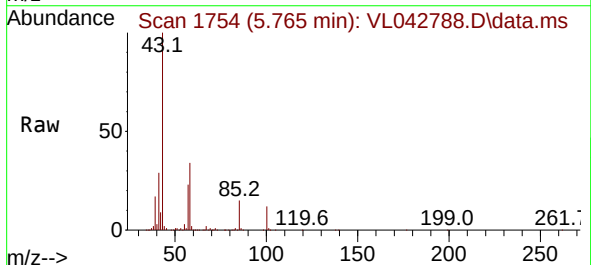
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

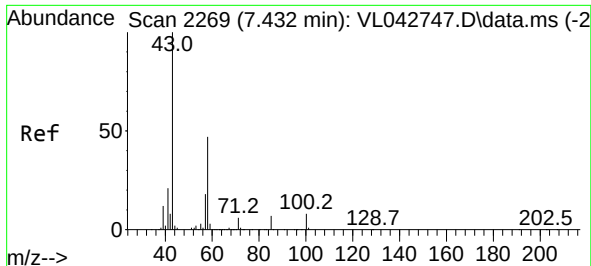
Tgt Ion:173 Resp: 233626
Ion Ratio Lower Upper
173 100
175 49.1 38.4 57.6
171 52.8 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 11.101 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.019 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 43 Resp: 396864
Ion Ratio Lower Upper
43 100
58 34.7 27.8 41.8

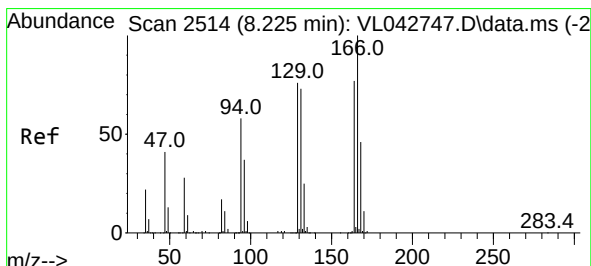
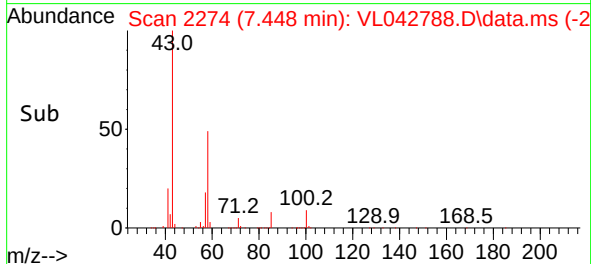
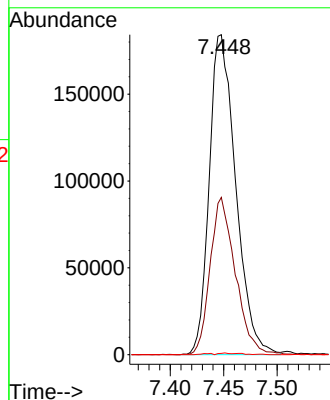
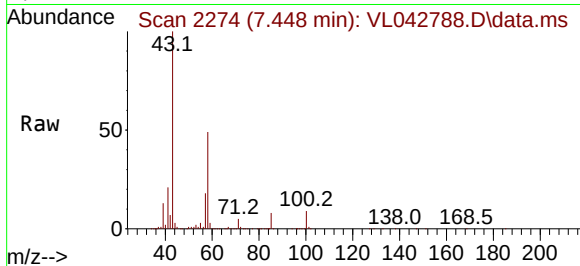




#51
2-Hexanone
Concen: 11.778 ppbv
RT: 7.448 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

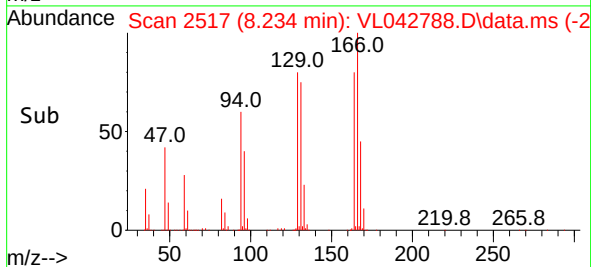
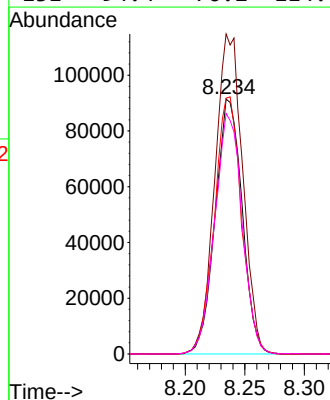
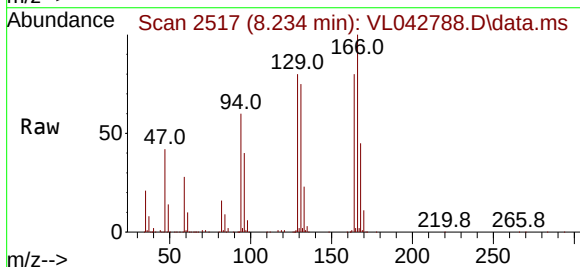
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

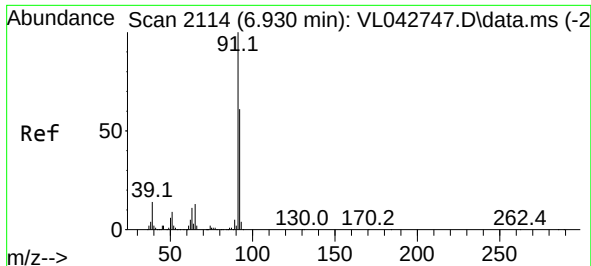
Tgt Ion: 43 Resp: 318210
Ion Ratio Lower Upper
43 100
58 46.9 38.0 57.0
98 0.6 0.2 0.4#



#52
Tetrachloroethene
Concen: 9.319 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion:164 Resp: 143437
Ion Ratio Lower Upper
164 100
166 125.6 104.0 156.0
129 100.3 79.2 118.8
131 94.4 76.2 114.4

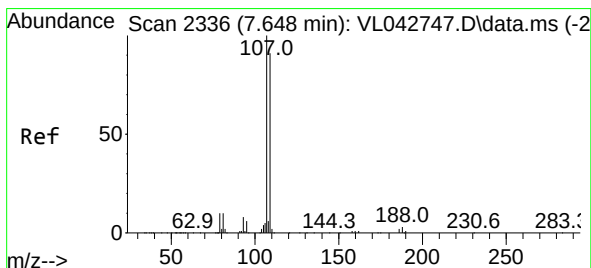
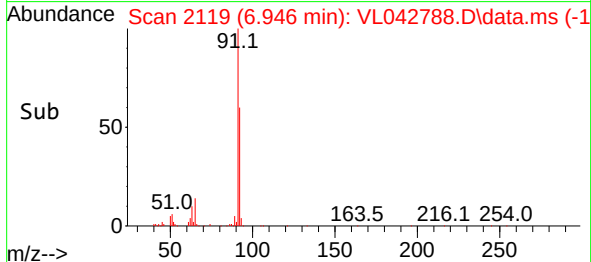
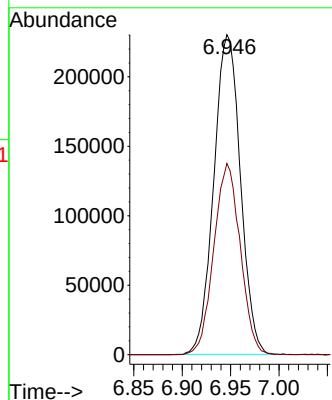
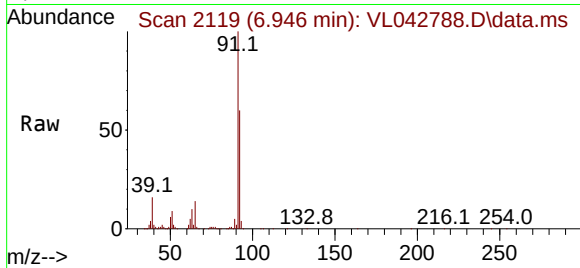




#53
Toluene
Concen: 11.044 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

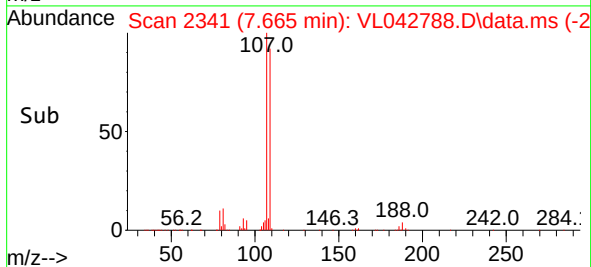
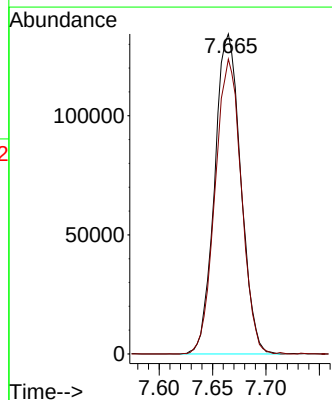
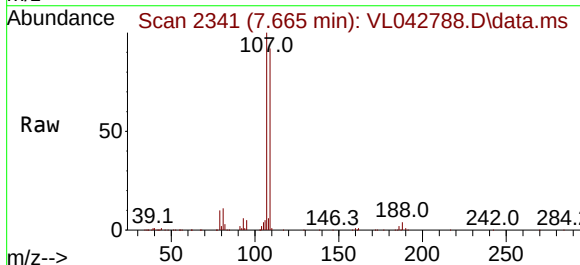
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

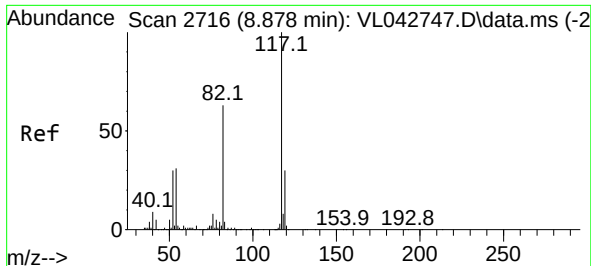
Tgt Ion: 91 Resp: 440370
Ion Ratio Lower Upper
91 100
92 59.3 48.0 72.0



#54
1,2-Dibromoethane
Concen: 11.078 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.016 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 107 Resp: 228691
Ion Ratio Lower Upper
107 100
109 92.2 72.7 109.1

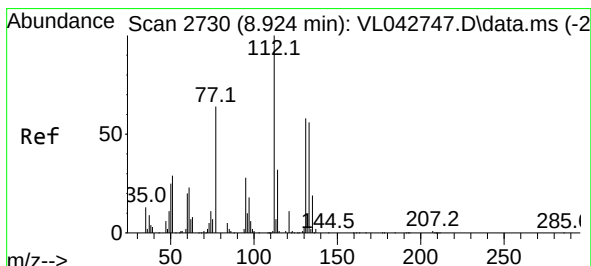
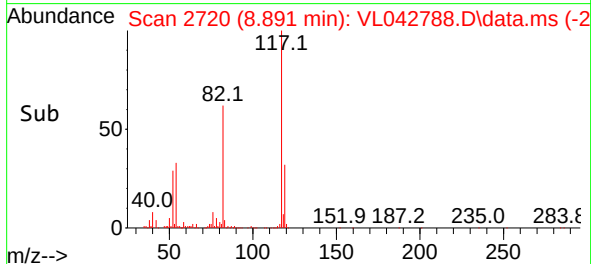
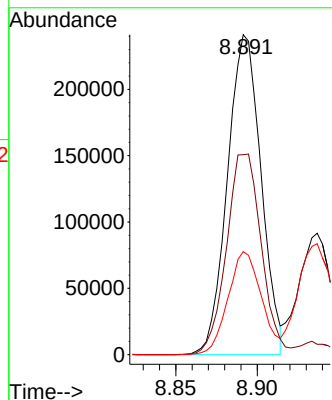
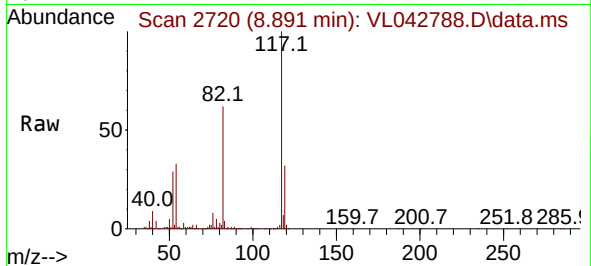




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

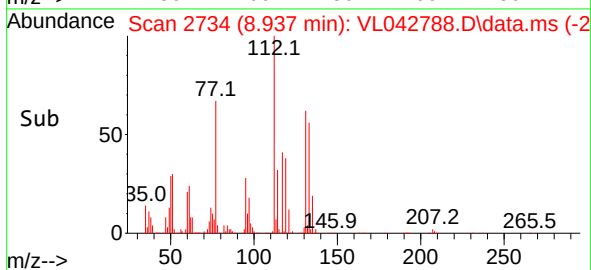
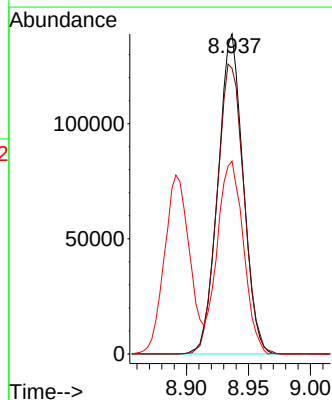
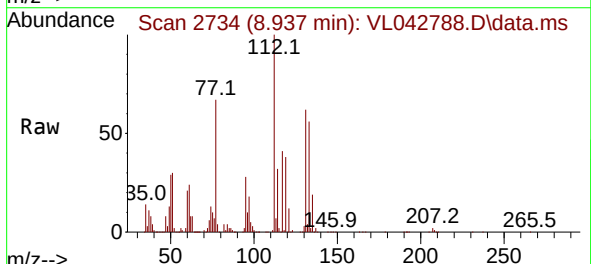
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

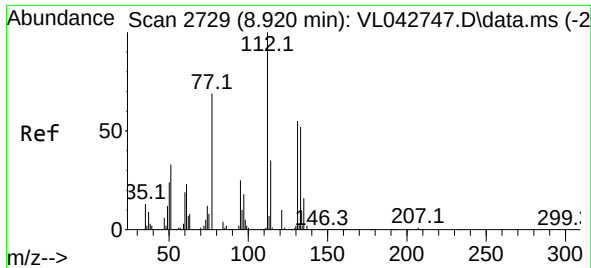
Tgt Ion:117 Resp: 345903
Ion Ratio Lower Upper
117 100
82 68.7 53.3 79.9
119 31.5 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 10.944 ppbv
RT: 8.937 min Scan# 2734
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion:131 Resp: 196819
Ion Ratio Lower Upper
131 100
133 96.1 76.8 115.2
119 63.5 49.7 74.5

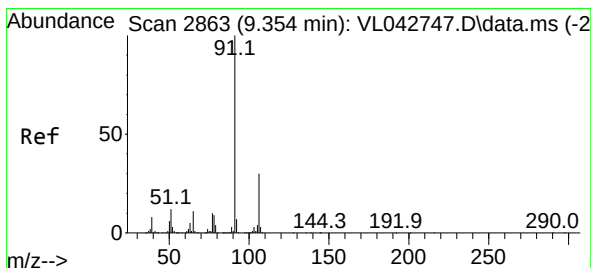
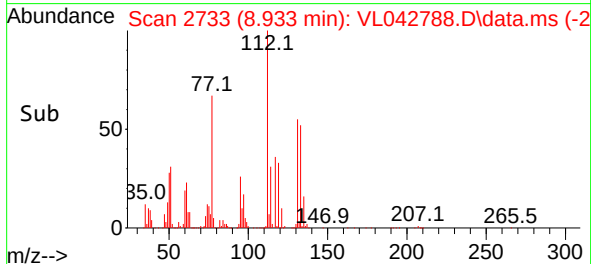
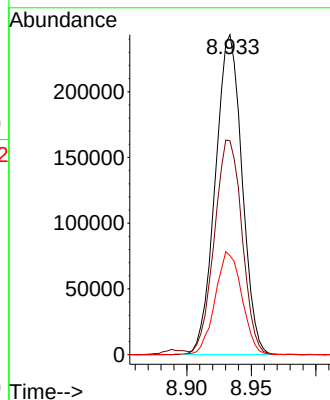
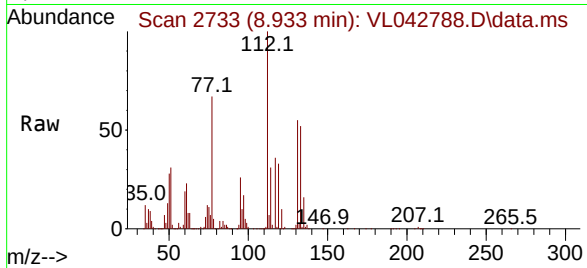




#57
Chlorobenzene
Concen: 10.455 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

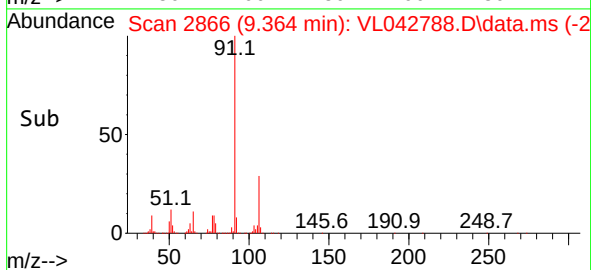
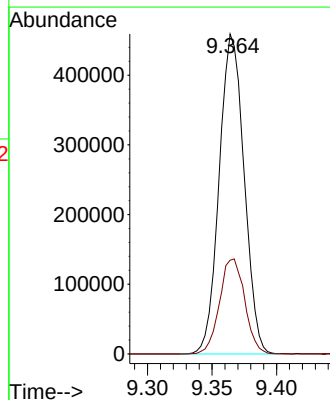
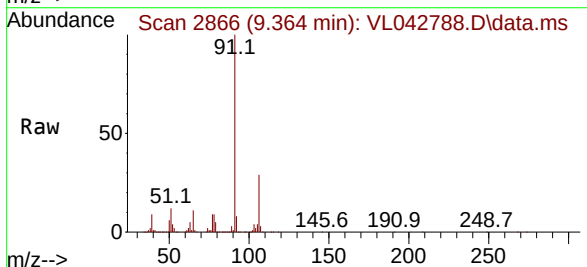
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

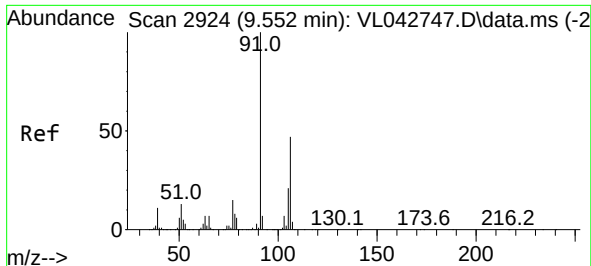
Tgt Ion:112 Resp: 349998
Ion Ratio Lower Upper
112 100
77 66.8 56.4 84.6
114 30.9 31.2 38.2#



#58
Ethyl Benzene
Concen: 11.272 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 91 Resp: 615736
Ion Ratio Lower Upper
91 100
106 29.3 23.8 35.6





#59

m/p-Xylene

Concen: 10.957 ppbv

RT: 9.561 min Scan# 2924

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_1

ClientSampleId :

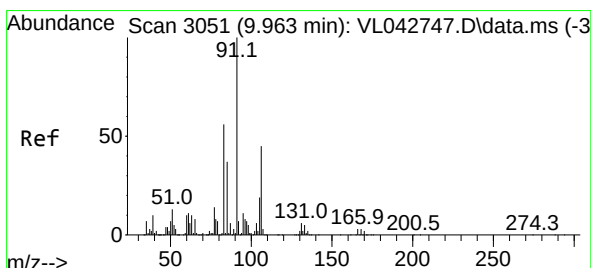
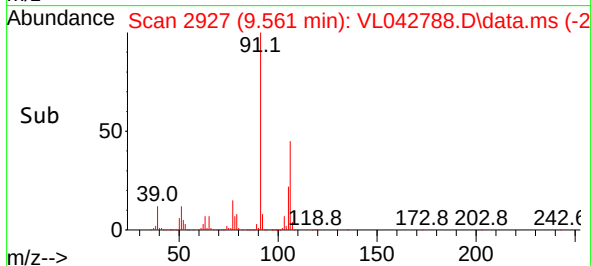
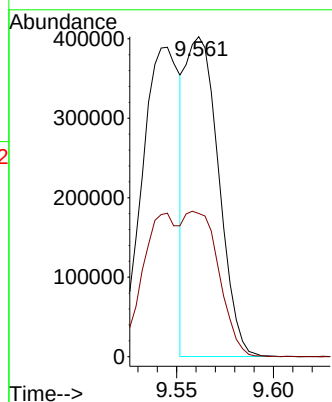
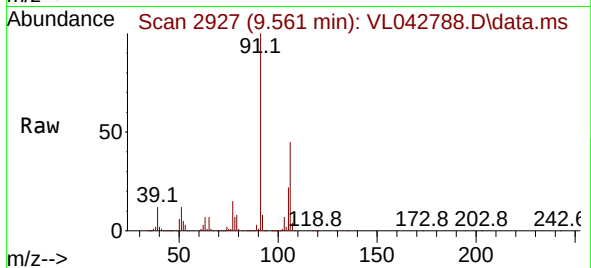
VSTDCCC010

Tgt Ion: 91 Resp: 478347

Ion Ratio Lower Upper

91 100

106 97.3 37.4 56.2#



#60

o-Xylene

Concen: 11.414 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.010 min

Lab File: VL042788.D

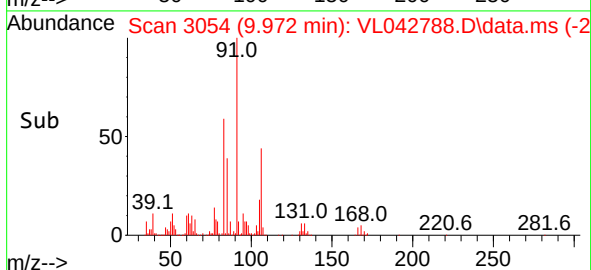
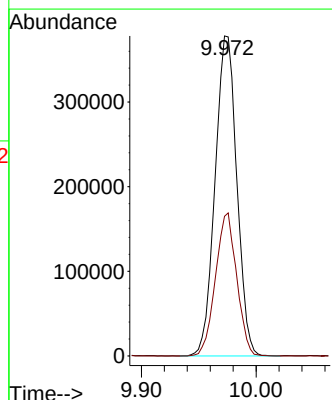
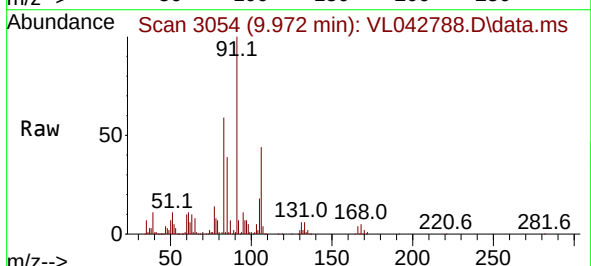
Acq: 31 Jul 2025 08:37

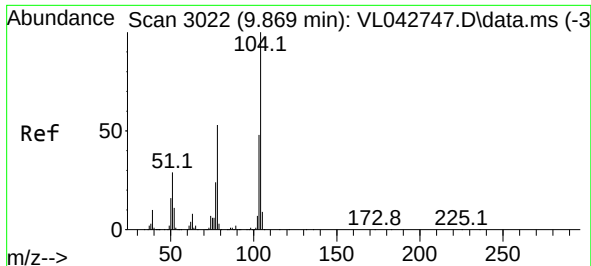
Tgt Ion: 91 Resp: 497901

Ion Ratio Lower Upper

91 100

106 43.7 22.0 66.0

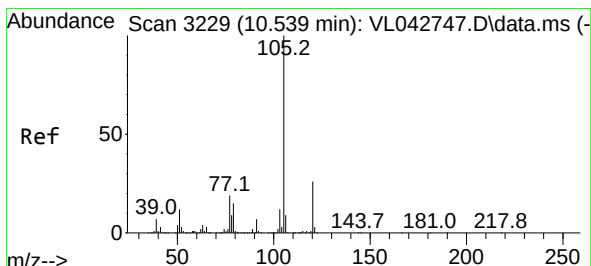
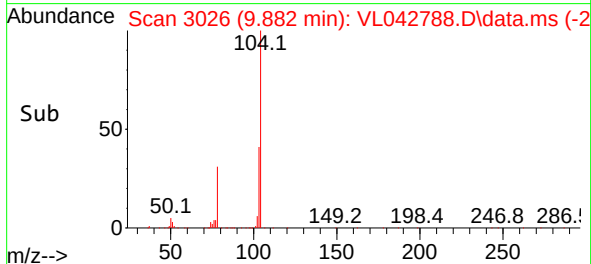
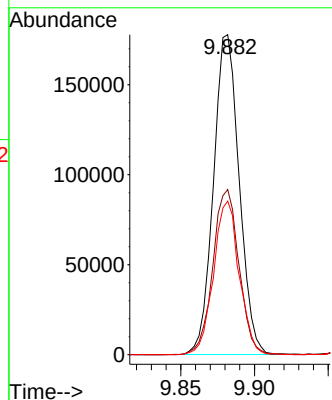
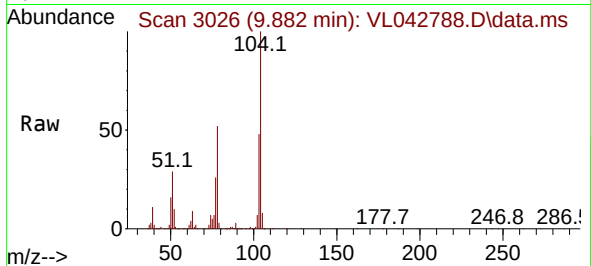




#61
Styrene
Concen: 11.742 ppbv
RT: 9.882 min Scan# 3026
Delta R.T. 0.013 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

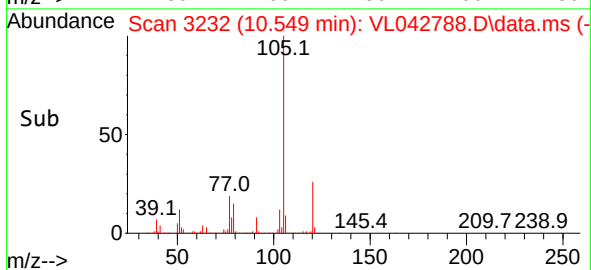
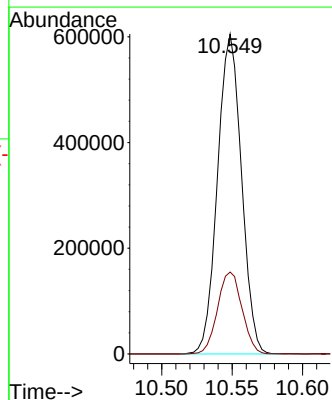
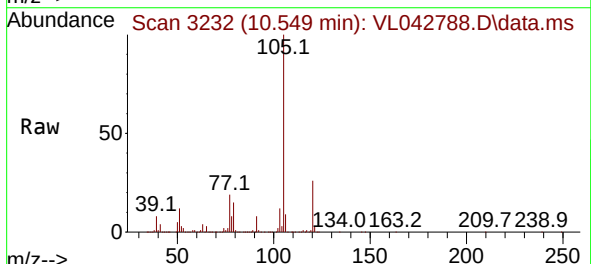
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

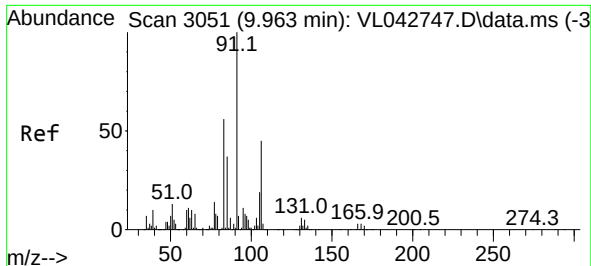
Tgt Ion:104 Resp: 215469
Ion Ratio Lower Upper
104 100
78 52.5 41.5 62.3
103 47.9 37.5 56.3



#62
Isopropylbenzene
Concen: 11.132 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion:105 Resp: 716277
Ion Ratio Lower Upper
105 100
120 26.1 20.5 30.7





#63

1,1,2-Tetrachloroethane

Concen: 10.413 ppbv

RT: 9.972 min Scan# 3051

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

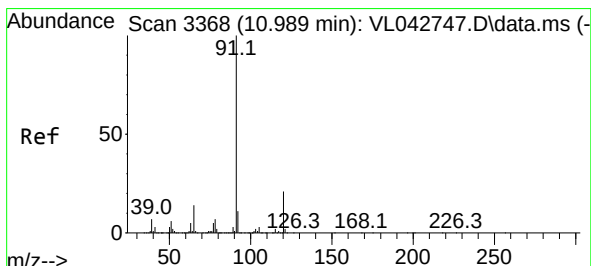
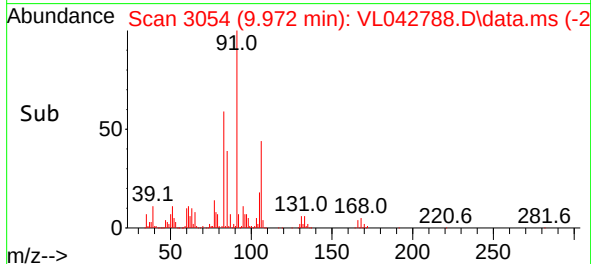
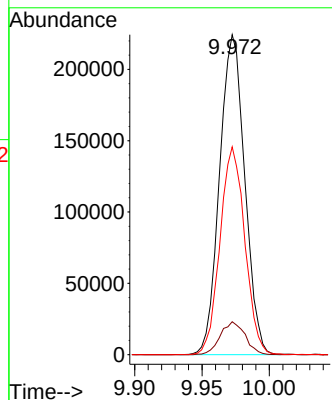
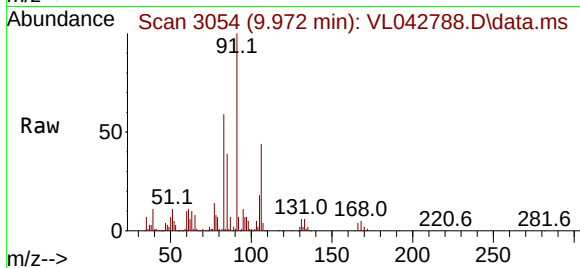
Tgt Ion: 83 Resp: 291626

Ion Ratio Lower Upper

83 100

131 10.2 5.0 15.0

85 64.1 32.6 97.7



#64

n-propylbenzene

Concen: 11.563 ppbv

RT: 10.998 min Scan# 3371

Delta R.T. 0.010 min

Lab File: VL042788.D

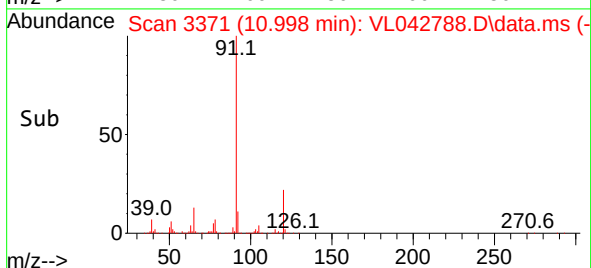
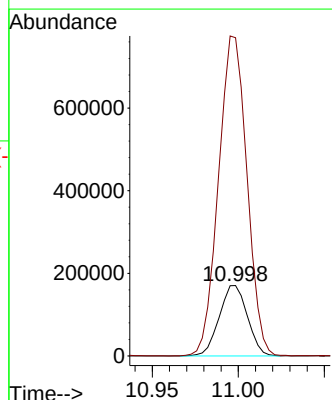
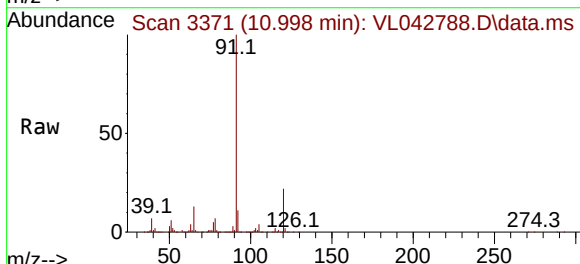
Acq: 31 Jul 2025 08:37

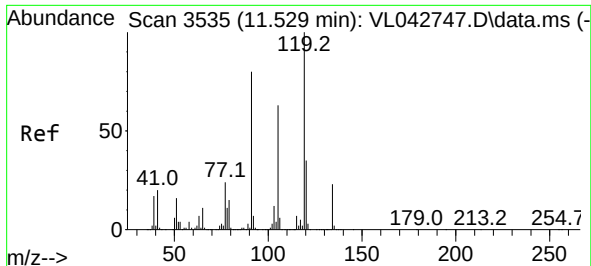
Tgt Ion:120 Resp: 193965

Ion Ratio Lower Upper

120 100

91 459.7 372.7 559.1

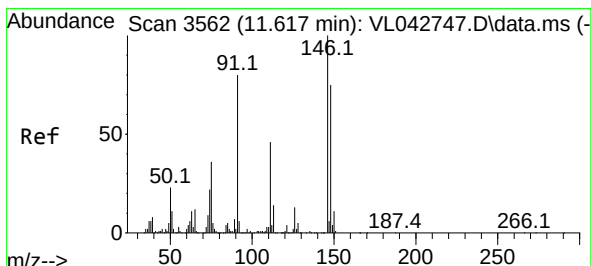
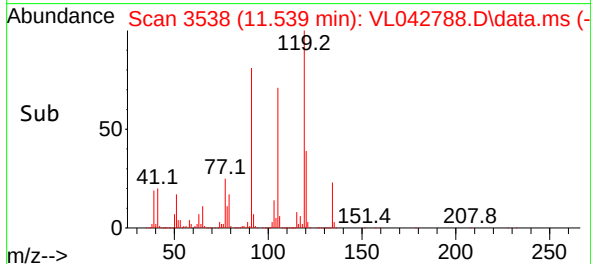
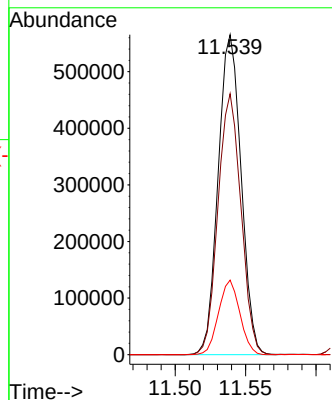
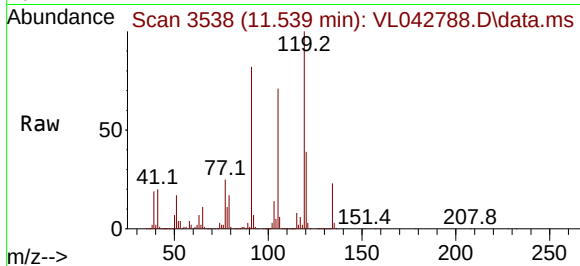




#65
tert-Butylbenzene
Concen: 11.215 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.010 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

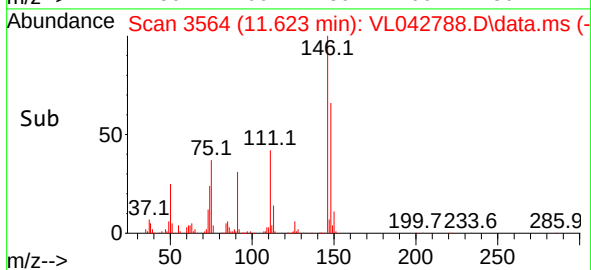
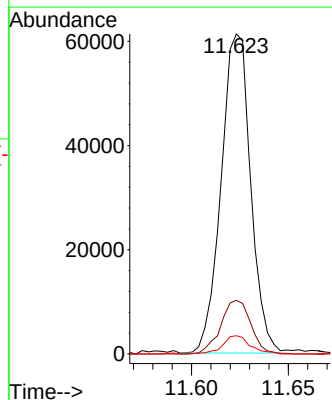
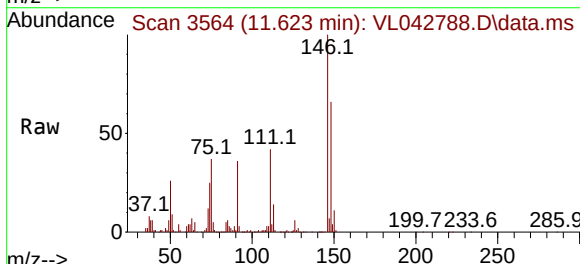
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

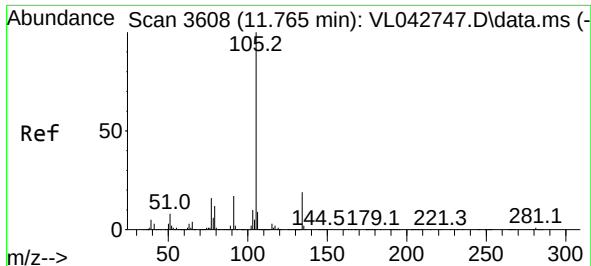
Tgt Ion:119 Resp: 641028
Ion Ratio Lower Upper
119 100
91 81.6 64.0 96.0
134 21.6 17.3 25.9



#66
Benzyl Chloride
Concen: 13.854 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.007 min
Lab File: VL042788.D
Acq: 31 Jul 2025 08:37

Tgt Ion: 91 Resp: 65004
Ion Ratio Lower Upper
91 100
126 17.1 14.4 21.6
128 5.4 5.2 7.8

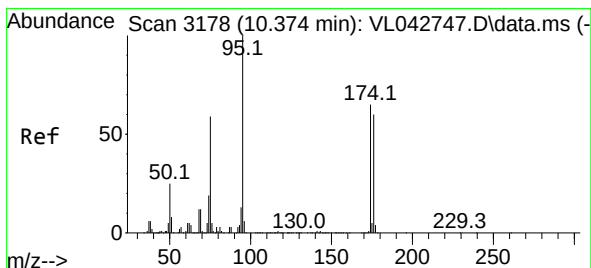
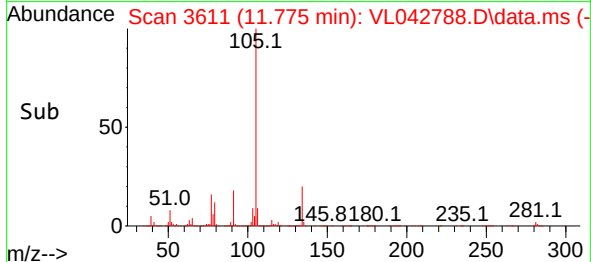
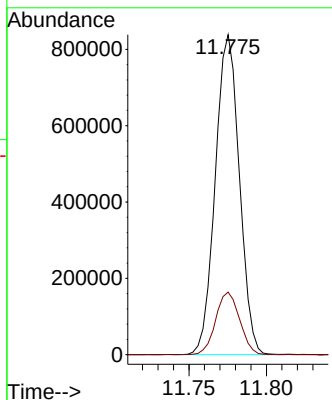
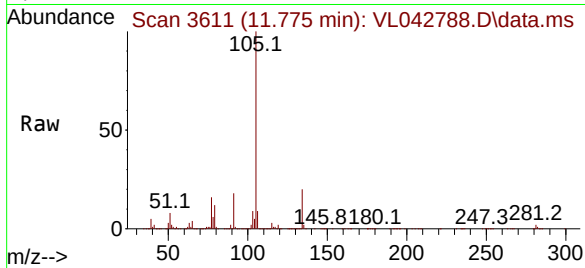




#67
 sec-Butylbenzene
 Concen: 11.144 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.010 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

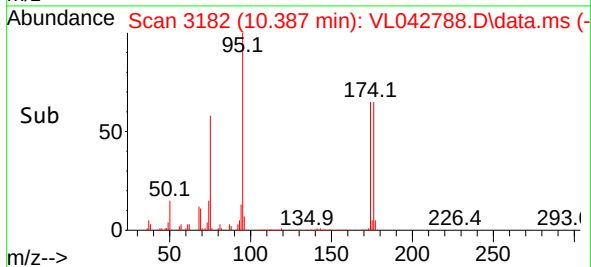
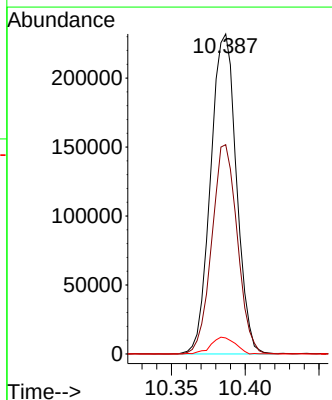
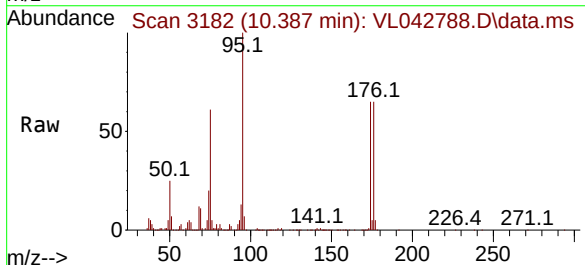
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

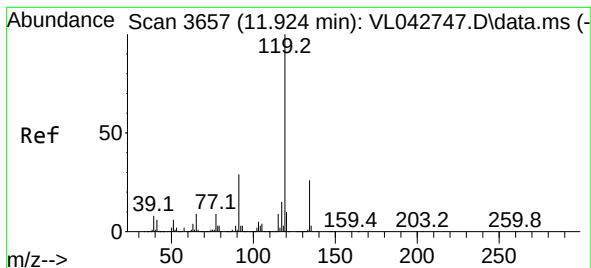
Tgt Ion:105 Resp: 905933
 Ion Ratio Lower Upper
 105 100
 134 19.5 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.295 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.013 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion: 95 Resp: 282020
 Ion Ratio Lower Upper
 95 100
 174 65.0 53.8 80.6
 175 5.0 4.0 6.0

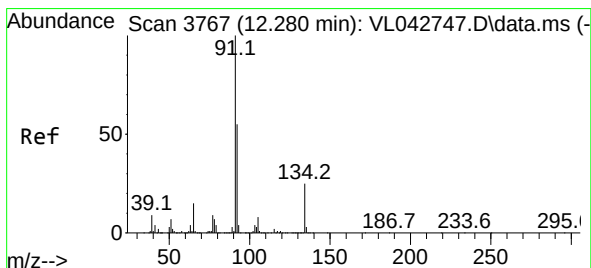
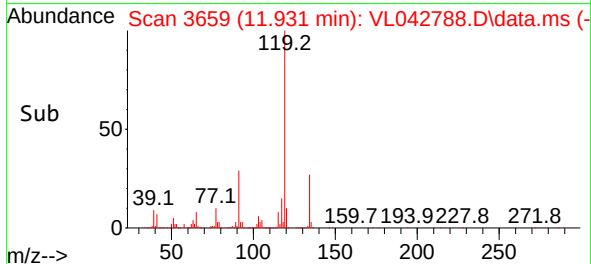
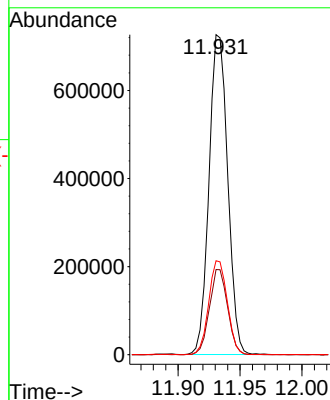
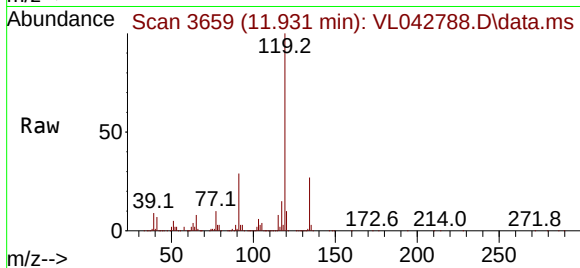




#69
 p-Isopropyltoluene
 Concen: 11.517 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.007 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

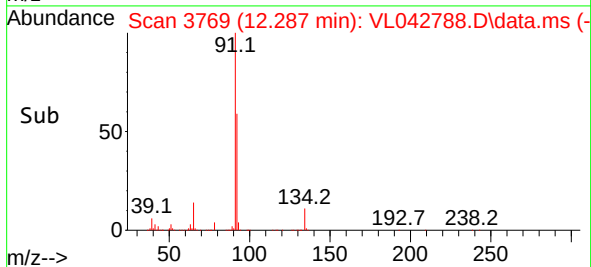
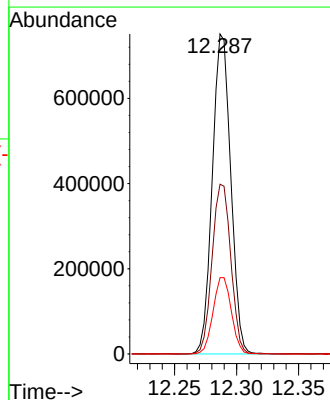
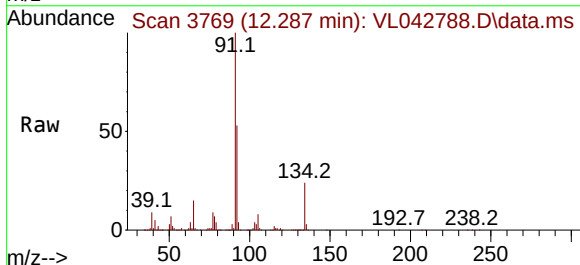
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

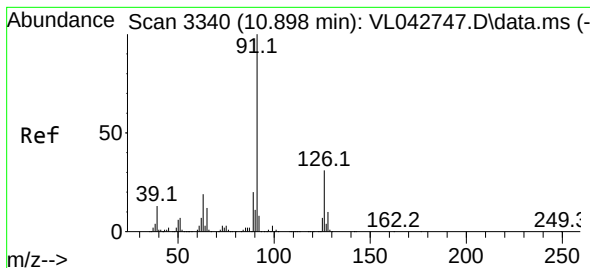
Tgt Ion:119 Resp: 763427
 Ion Ratio Lower Upper
 119 100
 134 26.0 20.6 31.0
 91 29.4 23.2 34.8



#70
 n-Butylbenzene
 Concen: 12.171 ppbv
 RT: 12.287 min Scan# 3769
 Delta R.T. 0.007 min
 Lab File: VL042788.D
 Acq: 31 Jul 2025 08:37

Tgt Ion: 91 Resp: 779301
 Ion Ratio Lower Upper
 91 100
 92 53.9 43.4 65.2
 134 23.7 19.6 29.4





#71

2-Chlorotoluene

Concen: 11.203 ppbv

RT: 10.908 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_1

ClientSampleId :

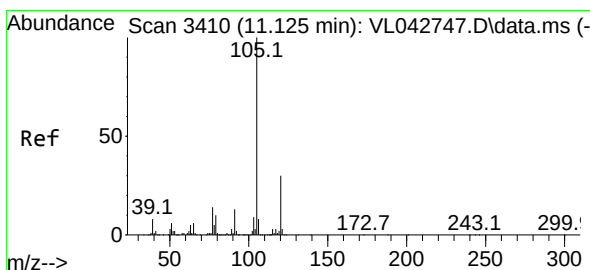
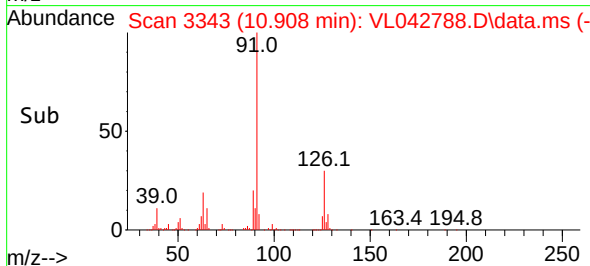
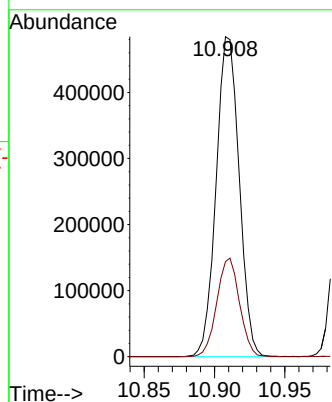
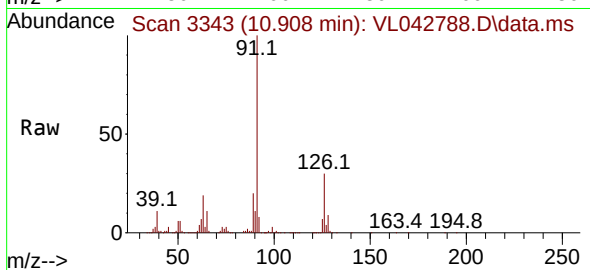
VSTDCCC010

Tgt Ion: 91 Resp: 552725

Ion Ratio Lower Upper

91 100

126 30.3 12.0 48.2



#72

4-Ethyltoluene

Concen: 11.745 ppbv

RT: 11.134 min Scan# 3413

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Tgt Ion: 105 Resp: 611893

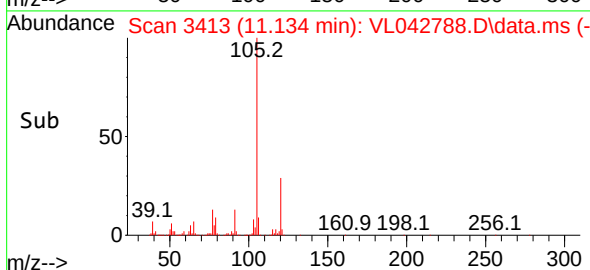
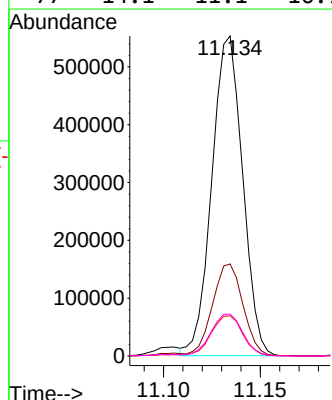
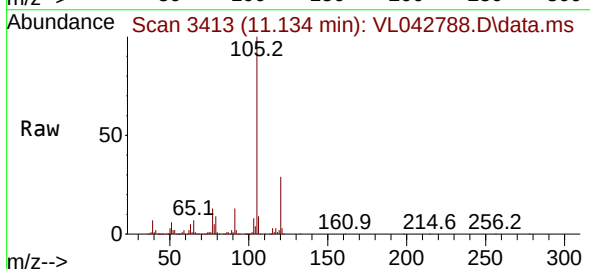
Ion Ratio Lower Upper

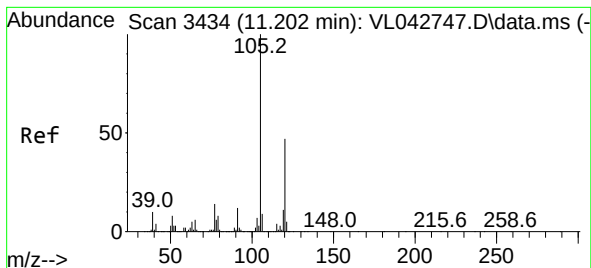
105 100

120 29.3 24.4 36.6

91 13.1 10.6 15.8

77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 11.791 ppbv

RT: 11.212 min Scan# 34

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

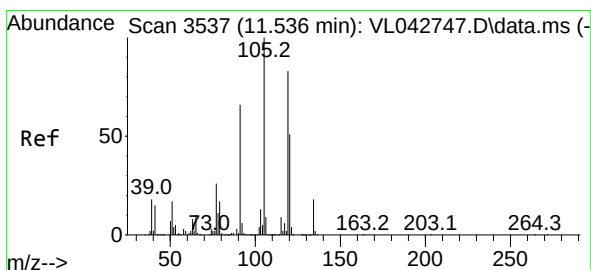
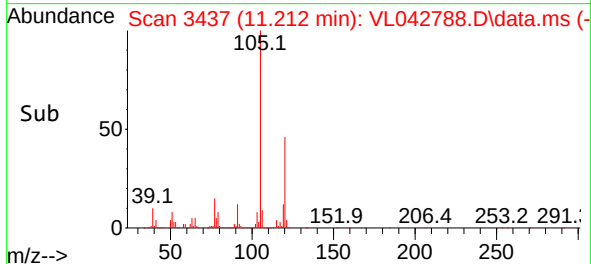
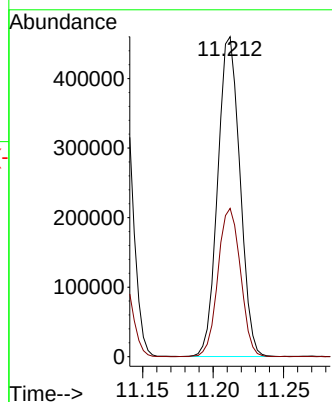
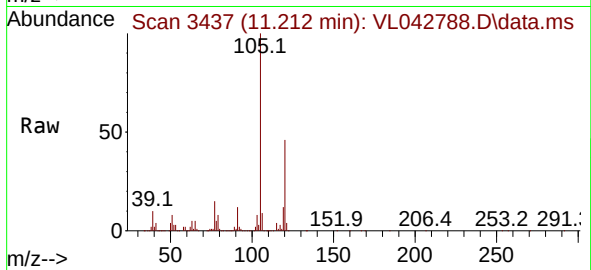
VSTDCCC010

Tgt Ion:105 Resp: 505734

Ion Ratio Lower Upper

105 100

120 46.3 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 12.030 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.010 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Tgt Ion:105 Resp: 562952

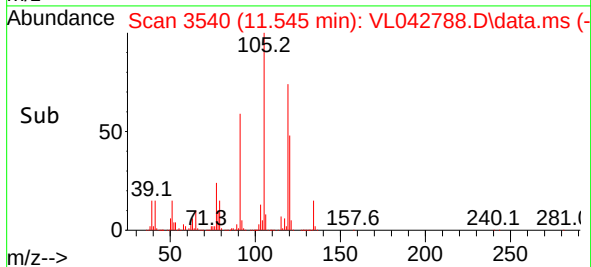
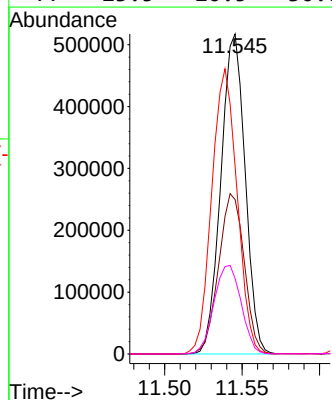
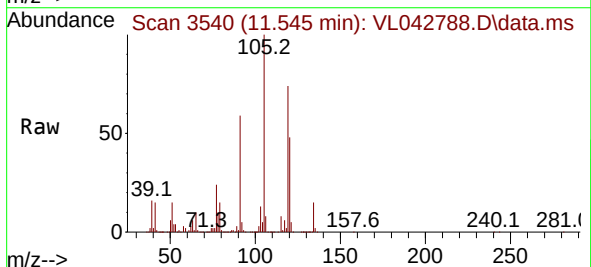
Ion Ratio Lower Upper

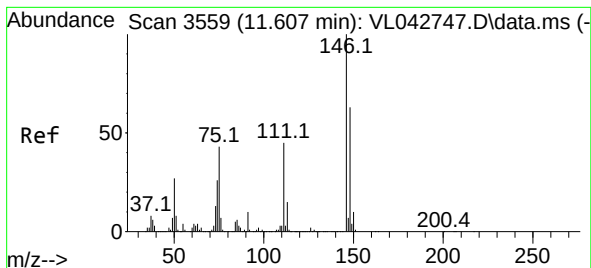
105 100

120 48.3 40.8 61.2

91 58.6 53.0 79.4

77 23.5 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 11.049 ppbv

RT: 11.613 min Scan# 3559

Delta R.T. 0.006 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

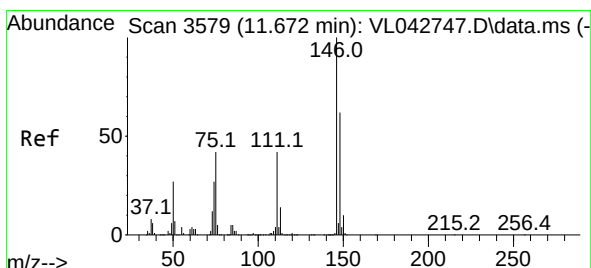
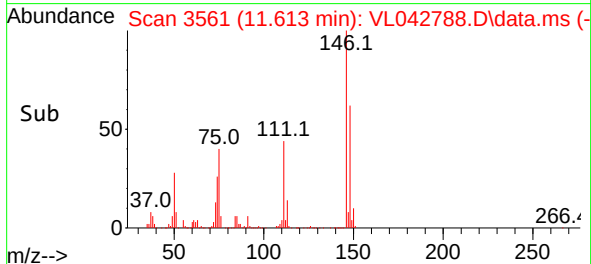
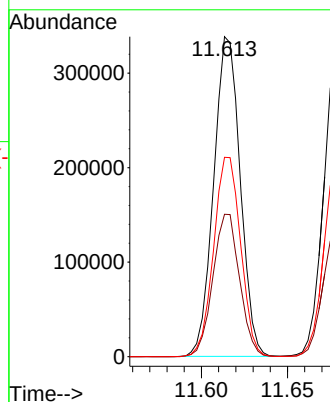
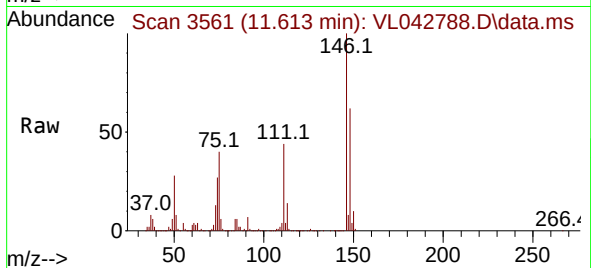
Tgt Ion:146 Resp: 362463

Ion Ratio Lower Upper

146 100

111 45.0 22.7 68.0

148 63.6 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 11.209 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.007 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

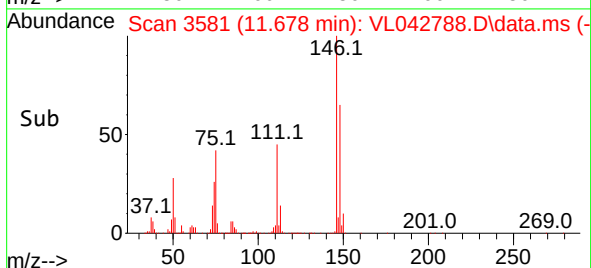
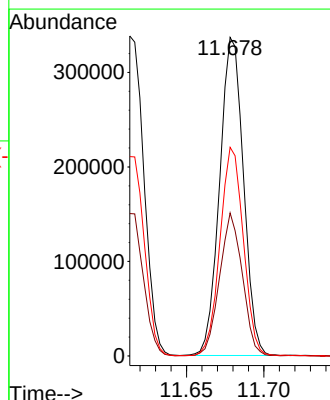
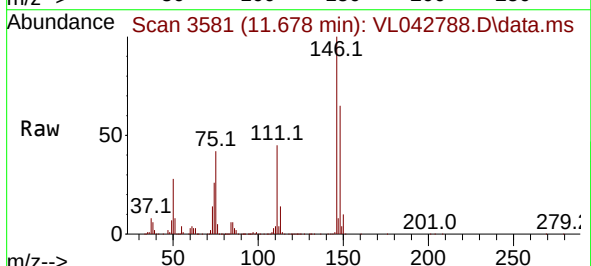
Tgt Ion:146 Resp: 359833

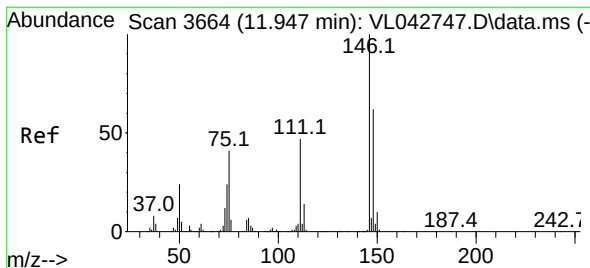
Ion Ratio Lower Upper

146 100

111 43.2 21.4 64.2

148 64.8 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 10.812 ppbv

RT: 11.953 min Scan# 3

Delta R.T. 0.006 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDC010

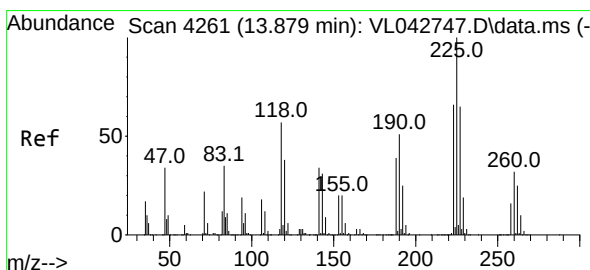
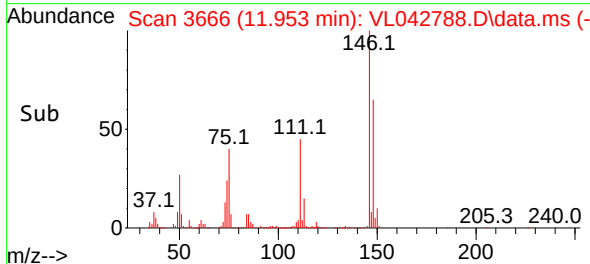
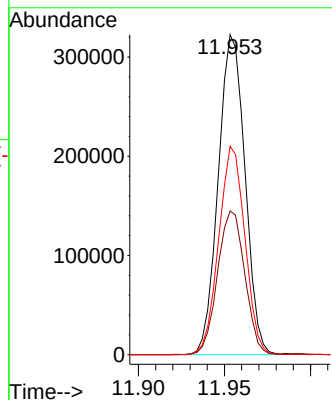
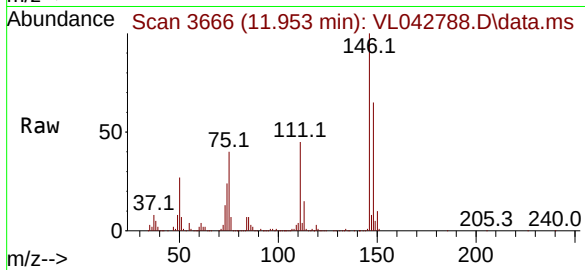
Tgt Ion:146 Resp: 348624

Ion Ratio Lower Upper

146 100

111 45.9 23.7 71.1

148 64.1 32.6 97.7



#78

Hexachloro-1,3-Butadiene

Concen: 9.673 ppbv

RT: 13.886 min Scan# 4263

Delta R.T. 0.007 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

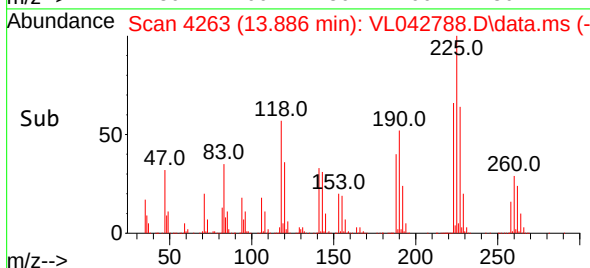
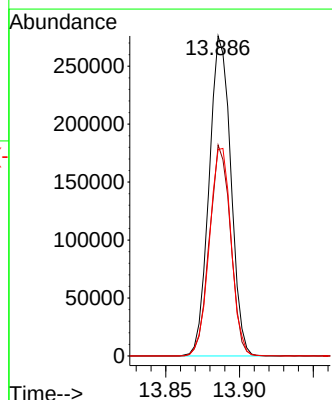
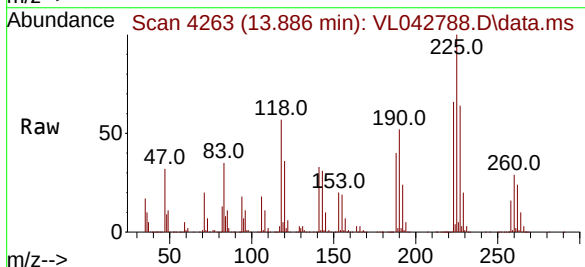
Tgt Ion:225 Resp: 282288

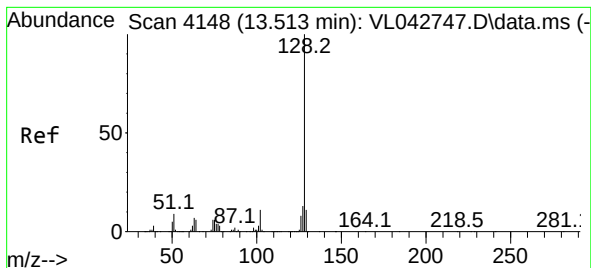
Ion Ratio Lower Upper

225 100

223 64.2 50.7 76.1

227 65.1 50.5 75.7





#79

Naphthalene

Concen: 11.014 ppbv

RT: 13.520 min Scan# 4148

Delta R.T. 0.007 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

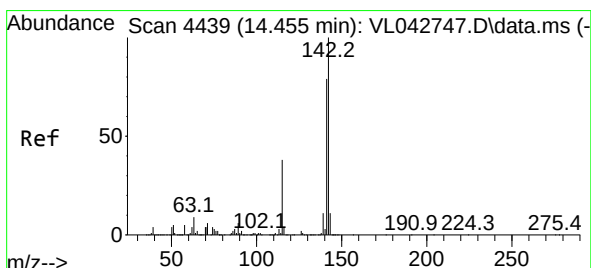
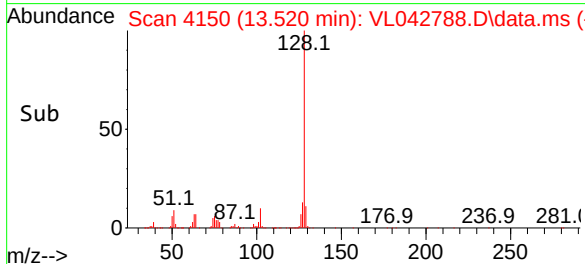
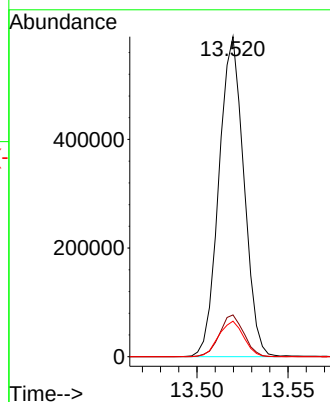
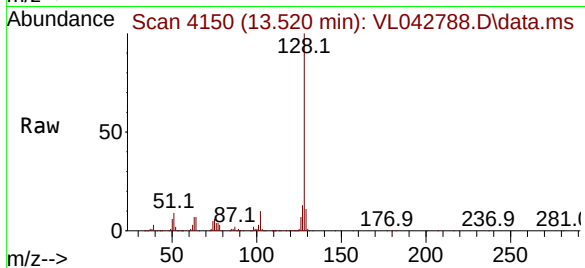
Tgt Ion:128 Resp: 561584

Ion Ratio Lower Upper

128 100

127 13.0 10.5 15.7

129 11.1 8.6 13.0



#80

Naphthalene,2-methyl-

Concen: 9.837 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.006 min

Lab File: VL042788.D

Acq: 31 Jul 2025 08:37

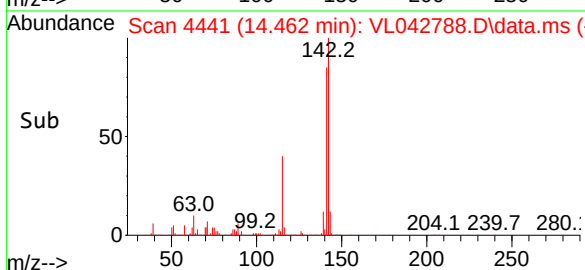
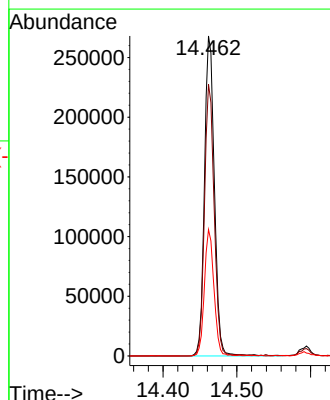
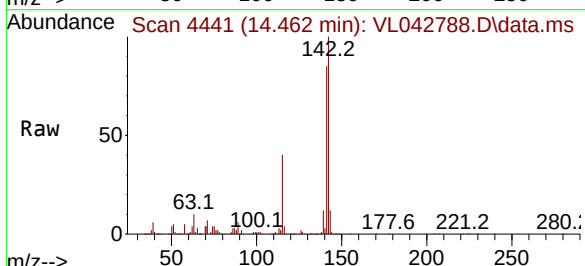
Tgt Ion:142 Resp: 249243

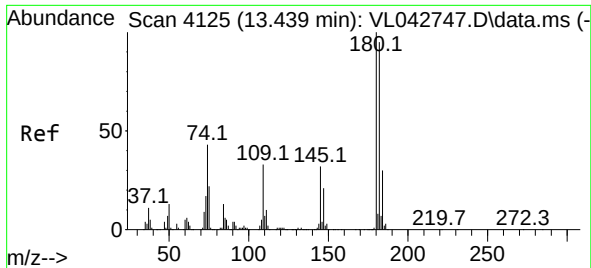
Ion Ratio Lower Upper

142 100

141 83.7 65.8 98.8

115 38.5 31.2 46.8





#81

1,2,4-Trichlorobenzene

Concen: 10.987 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042788.D

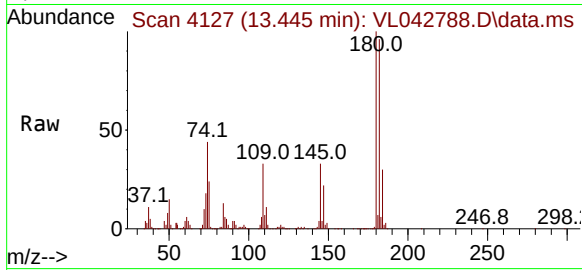
Acq: 31 Jul 2025 08:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



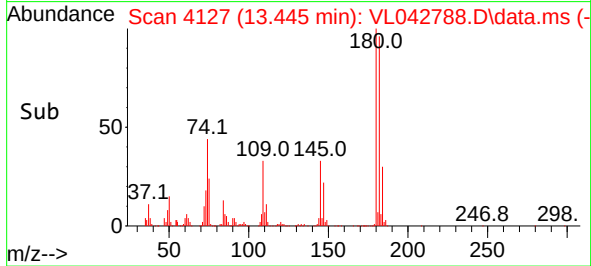
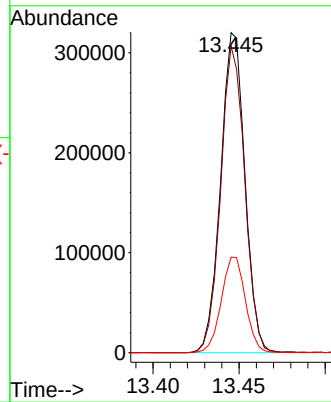
Tgt Ion:180 Resp: 314832

Ion Ratio Lower Upper

180 100

182 94.7 76.2 114.2

184 29.7 24.8 37.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042790.D
 Acq On : 31 Jul 2025 10:15
 Operator : SY/MD
 Sample : VL0724ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

Quant Time: Aug 01 01:13:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	140975	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	391458	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	349880	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	284130	10.254	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	179092	9.608	ppbv	98
3) Chlorodifluoromethane	1.476	51	243995	10.049	ppbv	99
4) Chloromethane	1.535	50	73605	9.761	ppbv	95
5) Vinyl Chloride	1.583	62	63029	8.460	ppbv	92
6) Bromomethane	1.671	94	25942	9.007	ppbv	99
7) Chloroethane	1.706	64	25445	8.839	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	144815	9.447	ppbv	98
9) Propene	1.486	41	87288	9.891	ppbv	100
10) Heptane	4.991	43	255178	10.724	ppbv	98
11) Trichlorofluoromethane	1.881	101	178945	9.314	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	137912	9.446	ppbv	99
13) Ethanol	1.722	45	6331	8.701	ppbv	97
14) Bromoethene	1.784	108	49330	9.543	ppbv	99
15) Acetone	1.839	43	147760	7.590	ppbv	99
16) 1,3-Butadiene	1.612	39	74826	9.012	ppbv	98
17) tert-Butyl alcohol	2.043	59	157784	8.987	ppbv	100
18) 1,1-Dichloroethene	2.036	96	59478	9.016	ppbv	96
19) Isopropyl Alcohol	1.887	45	91274	8.823	ppbv	94
20) Methylene Chloride	2.065	84	51356	8.372	ppbv	94
21) Allyl Chloride	2.098	41	117287	9.776	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	67541	9.517	ppbv	98
23) Vinyl Acetate	2.467	43	270452	11.460	ppbv	98
24) 1,1-Dichloroethane	2.412	63	137263	9.423	ppbv	98
25) Ethyl Acetate	2.839	43	453552	10.526	ppbv	99
26) Hexane	2.829	57	195021	10.318	ppbv	98
27) Carbon Disulfide	2.153	76	165318	10.216	ppbv	96
28) Methyl tert-Butyl Ether	2.444	73	86612	9.699	ppbv	97
29) Chloroform	2.852	83	300921	10.303	ppbv	97
30) Cyclohexane	3.865	84	165101	10.299	ppbv	97
31) cis-1,2-Dichloroethene	2.726	61	194661	10.022	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	293497	9.647	ppbv	98
34) 2-Butanone	2.561	43	298296	10.758	ppbv	100
35) Carbon Tetrachloride	3.771	117	312530	10.748	ppbv	99
36) Benzene	3.664	78	390877	10.536	ppbv	99
37) 1,2-Dichloroethane	3.224	62	236656	10.589	ppbv	99
38) Trichloroethene	4.558	130	174246	9.776	ppbv	97
39) 1,2-Dichloropropane	4.321	63	144288	10.536	ppbv	98
40) 1,4-Dioxane	4.590	88	54856	8.594	ppbv #	89
41) Tetrahydrofuran	3.059	42	161537	11.448	ppbv	98
42) Bromodichloromethane	4.496	83	321891	11.059	ppbv #	99
43) Methyl Methacrylate	4.888	69	151803	11.512	ppbv	98
44) 2,2,4-Trimethylpentane	4.648	57	672509	11.121	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	165606	11.199	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042790.D
 Acq On : 31 Jul 2025 10:15
 Operator : SY/MD
 Sample : VL0724ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

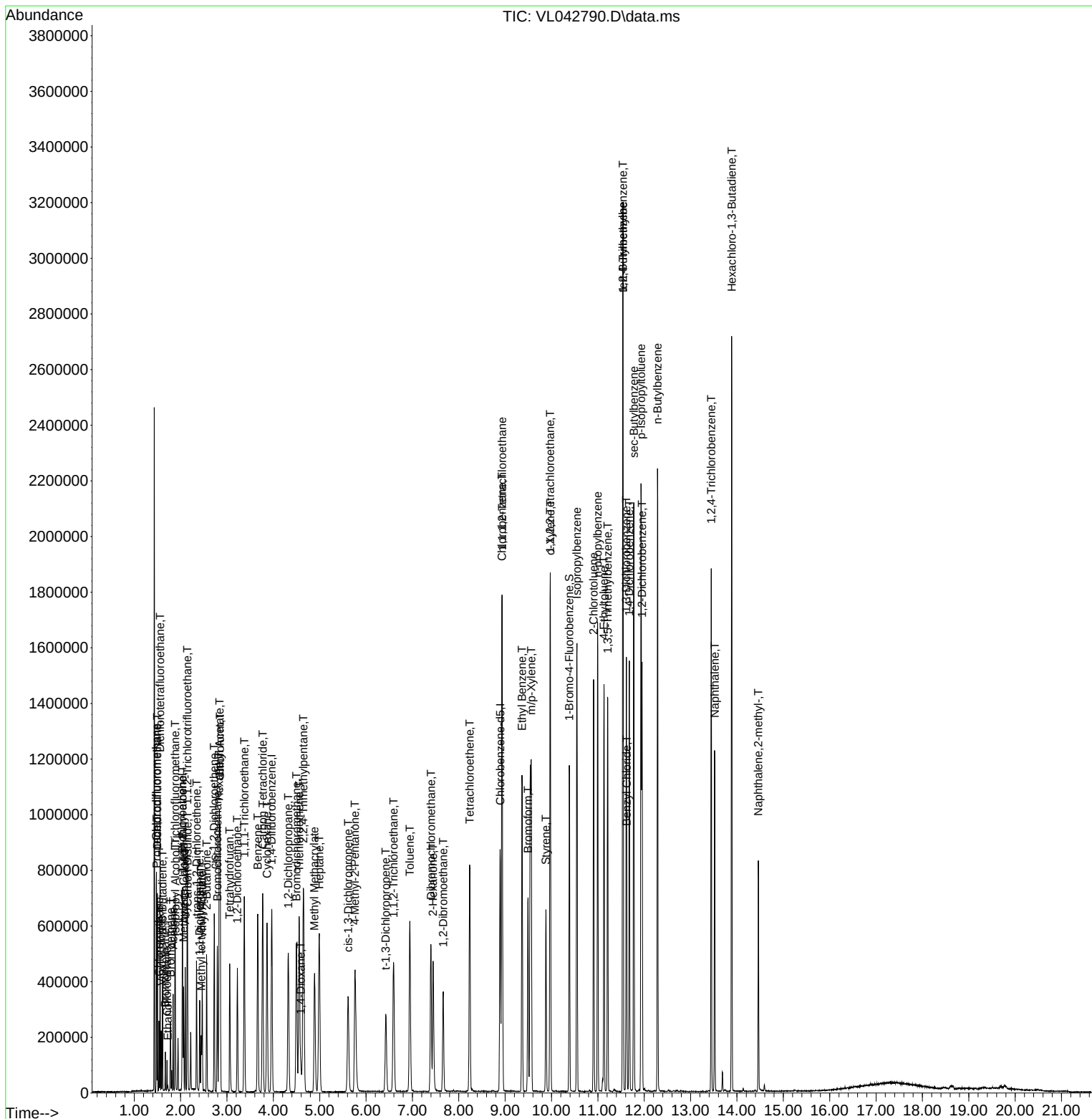
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

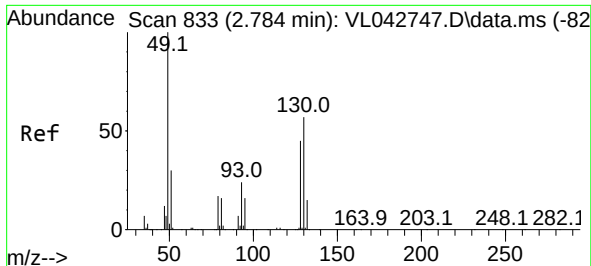
Quant Time: Aug 01 01:13:17 2025
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 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	208804	11.143	ppbv	97
47) 1,1,2-Trichloroethane	6.594	97	154552	10.587	ppbv	97
48) Dibromochloromethane	7.399	129	261380	11.278	ppbv	99
49) Bromoform	9.494	173	231022	11.433	ppbv	99
50) 4-Methyl-2-Pentanone	5.762	43	402543	11.270	ppbv	99
51) 2-Hexanone	7.445	43	321076	11.895	ppbv #	99
52) Tetrachloroethene	8.238	164	145761	9.479	ppbv	96
53) Toluene	6.943	91	439867	11.041	ppbv	100
54) 1,2-Dibromoethane	7.665	107	225399	10.928	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.934	131	198394	10.906	ppbv	100
57) Chlorobenzene	8.930	112	351678	10.386	ppbv #	96
58) Ethyl Benzene	9.364	91	614495	11.121	ppbv	99
59) m/p-Xylene	9.562	91	464380	10.516	ppbv #	30
60) o-Xylene	9.976	91	493686	11.188	ppbv	99
61) Styrene	9.879	104	211712	11.406	ppbv	99
62) Isopropylbenzene	10.549	105	716413	11.007	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	288264	10.176	ppbv	98
64) n-propylbenzene	10.995	120	190663	11.237	ppbv	100
65) tert-Butylbenzene	11.539	119	654563	11.322	ppbv	99
66) Benzyl Chloride	11.623	91	63429	13.365	ppbv	98
67) sec-Butylbenzene	11.775	105	909814	11.065	ppbv	99
69) p-Isopropyltoluene	11.931	119	774561	11.553	ppbv	100
70) n-Butylbenzene	12.287	91	785569	12.130	ppbv	99
71) 2-Chlorotoluene	10.908	91	556610	11.153	ppbv	99
72) 4-Ethyltoluene	11.131	105	618091	11.729	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	515043	11.871	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	570715	12.057	ppbv	93
75) 1,3-Dichlorobenzene	11.614	146	360095	10.852	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	366048	11.273	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	351242	10.770	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	281564	9.538	ppbv	99
79) Naphthalene	13.520	128	540121	10.494	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	221690	8.786	ppbv	100
81) 1,2,4-Trichlorobenzene	13.446	180	305698	10.565	ppbv	100

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

Quant Time: Aug 01 01:13:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

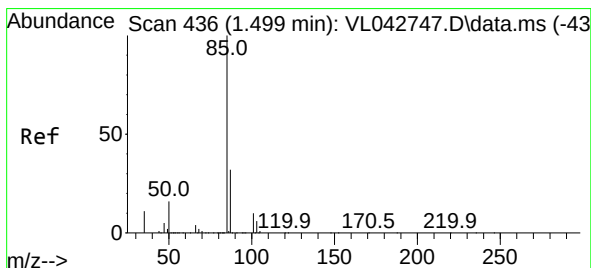
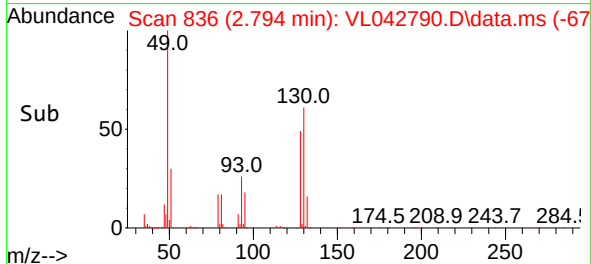
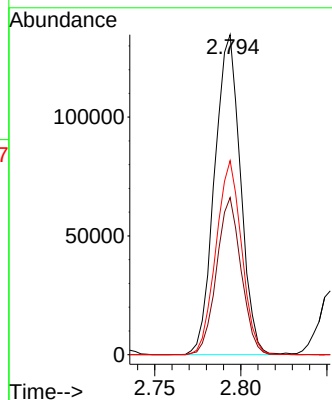
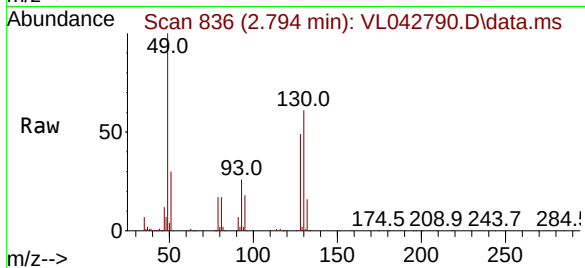




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.794 min Scan# 833
 Delta R.T. 0.010 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

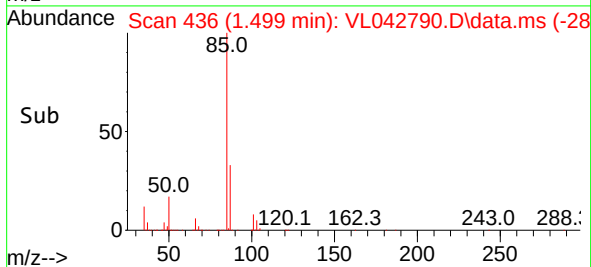
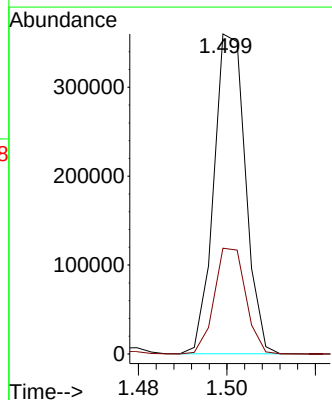
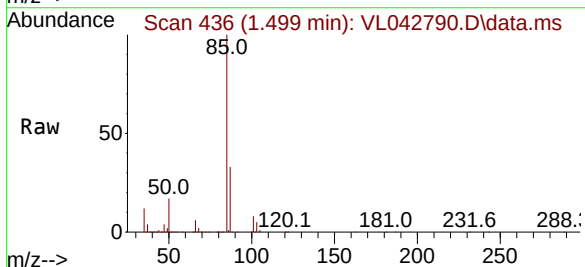
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

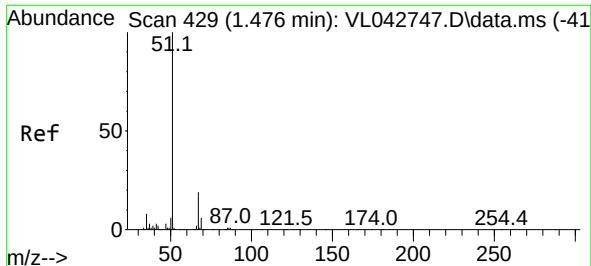
Tgt Ion: 49 Resp: 140975
 Ion Ratio Lower Upper
 49 100
 128 46.6 23.6 71.0
 130 59.8 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 9.608 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 85 Resp: 179092
 Ion Ratio Lower Upper
 85 100
 87 33.1 25.4 38.2

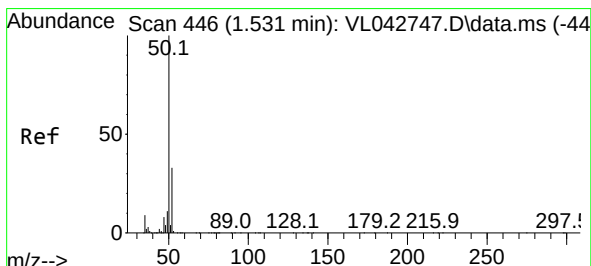
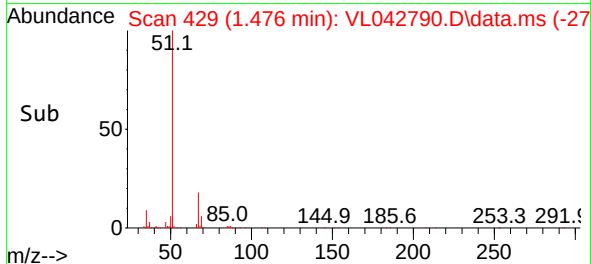
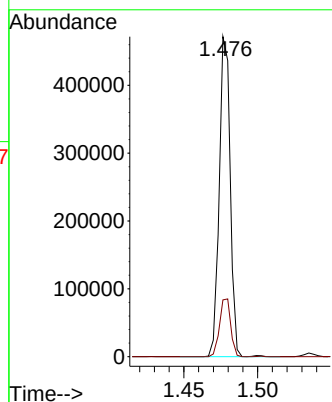
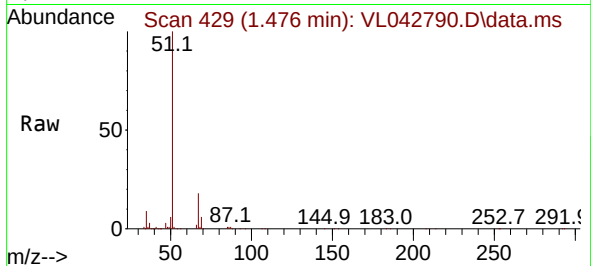




#3
Chlorodifluoromethane
Concen: 10.049 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

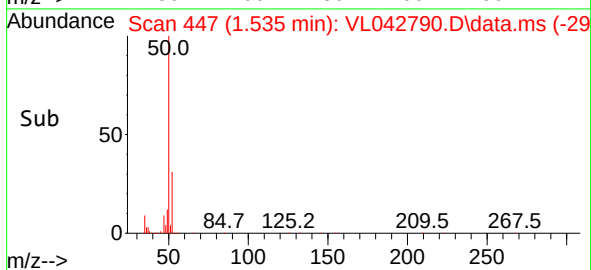
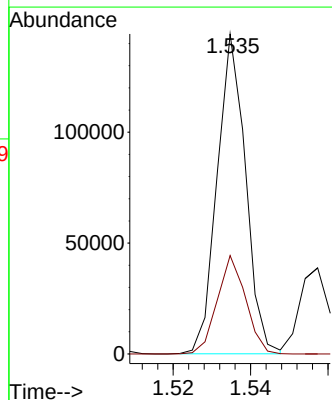
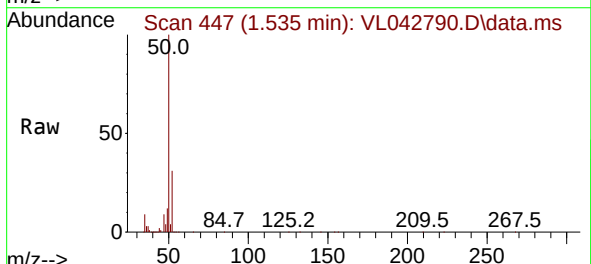
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABS01

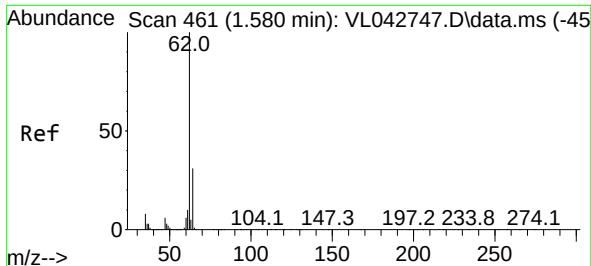
Tgt Ion: 51 Resp: 243995
Ion Ratio Lower Upper
51 100
67 18.6 15.0 22.6



#4
Chloromethane
Concen: 9.761 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 50 Resp: 73605
Ion Ratio Lower Upper
50 100
52 30.7 26.6 40.0

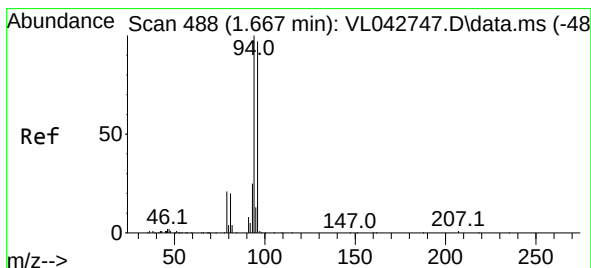
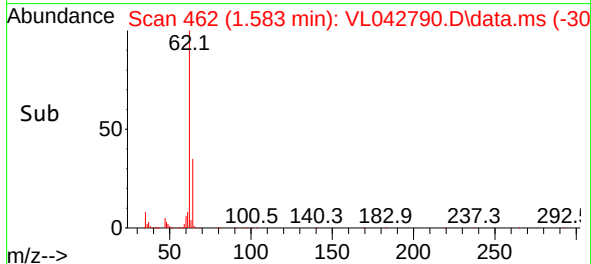
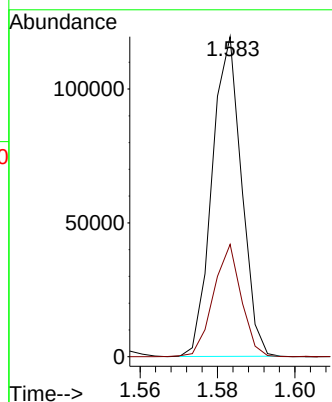
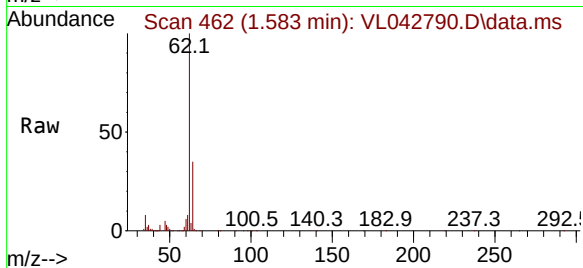




#5
 Vinyl Chloride
 Concen: 8.460 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

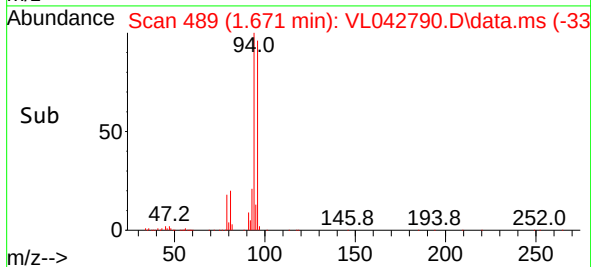
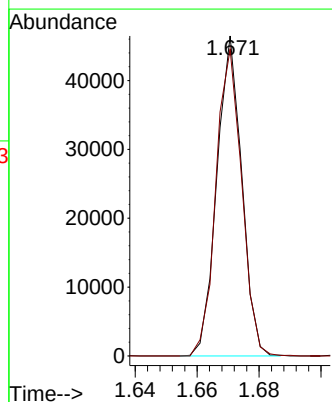
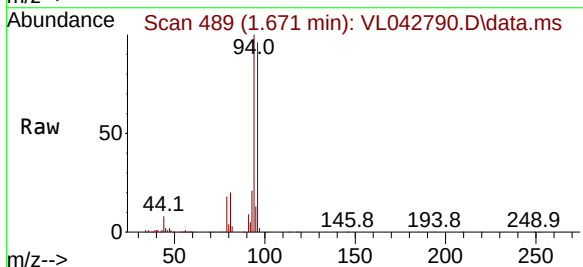
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABS01

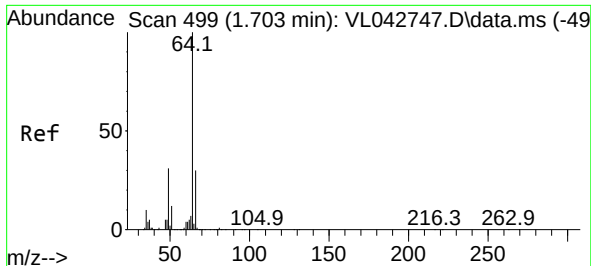
Tgt Ion: 62 Resp: 63029
 Ion Ratio Lower Upper
 62 100
 64 35.1 24.5 36.7



#6
 Bromomethane
 Concen: 9.007 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 94 Resp: 25942
 Ion Ratio Lower Upper
 94 100
 96 95.9 77.6 116.4

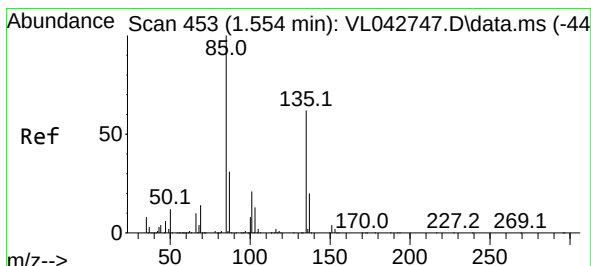
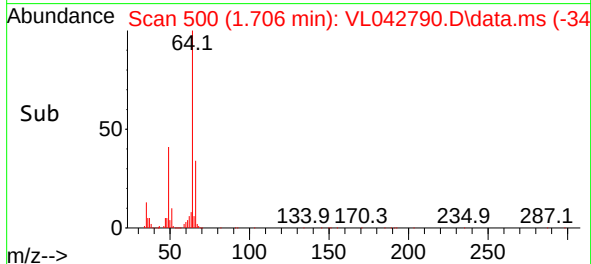
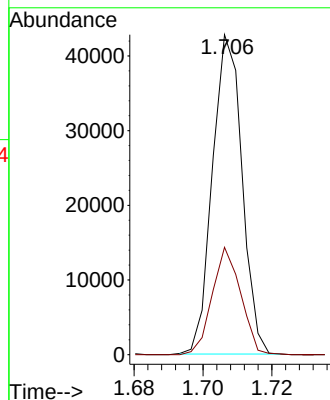
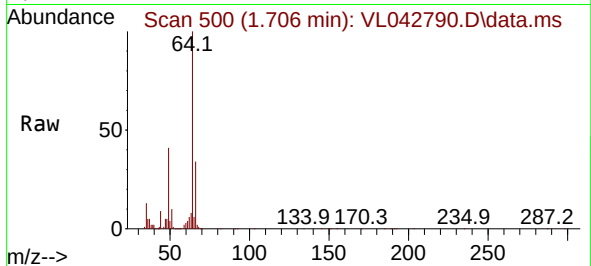




#7
Chloroethane
Concen: 8.839 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

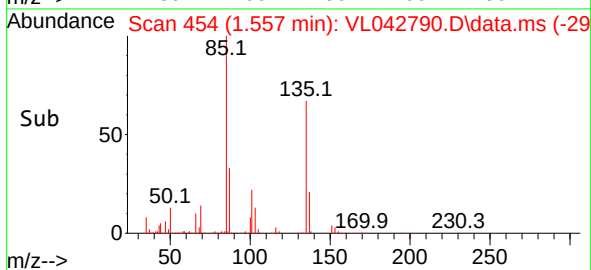
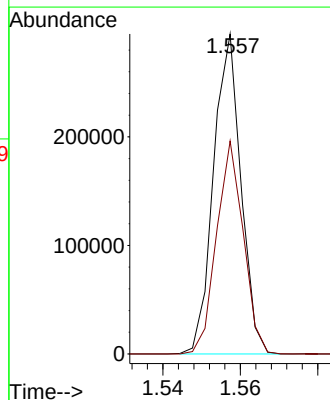
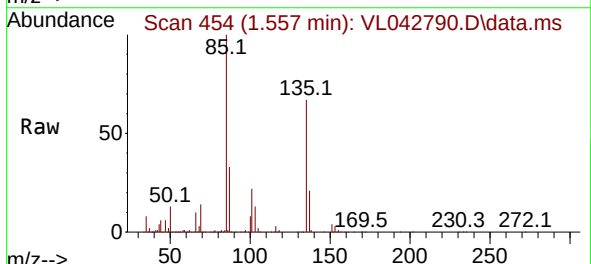
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABS01

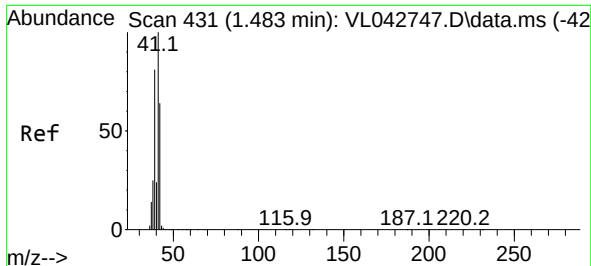
Tgt Ion: 64 Resp: 25445
Ion Ratio Lower Upper
64 100
66 33.5 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 9.447 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 85 Resp: 144815
Ion Ratio Lower Upper
85 100
135 65.0 50.6 76.0





#9

Propene

Concen: 9.891 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

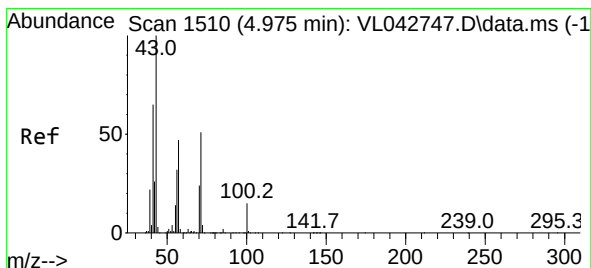
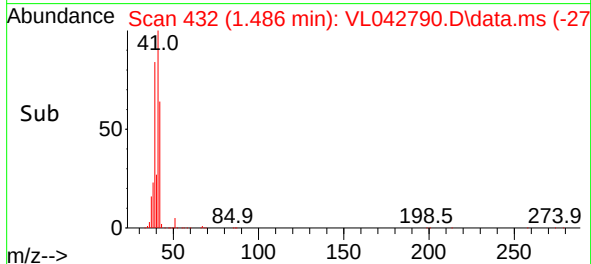
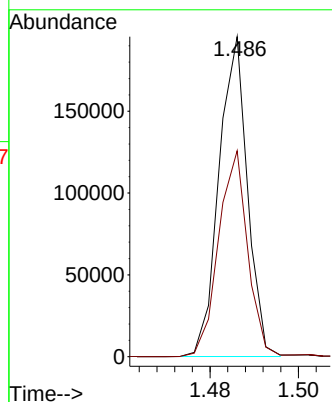
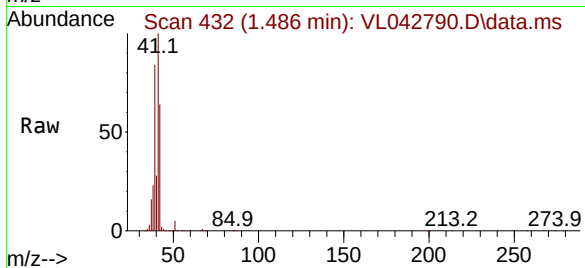
VL0731ABS01

Tgt Ion: 41 Resp: 87288

Ion Ratio Lower Upper

41 100

42 66.7 53.2 79.8



#10

Heptane

Concen: 10.724 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.016 min

Lab File: VL042790.D

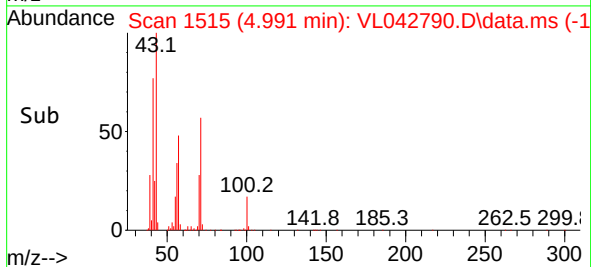
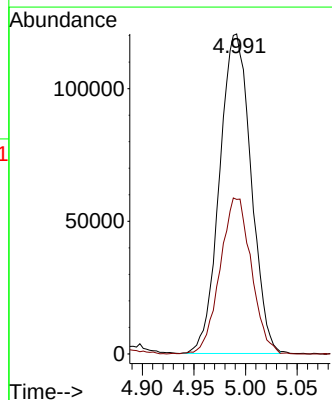
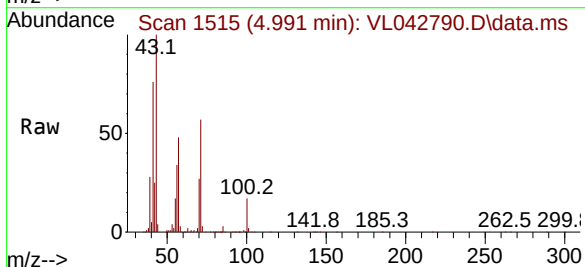
Acq: 31 Jul 2025 10:15

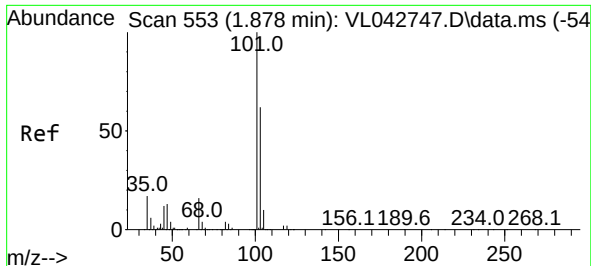
Tgt Ion: 43 Resp: 255178

Ion Ratio Lower Upper

43 100

57 48.6 39.9 59.9

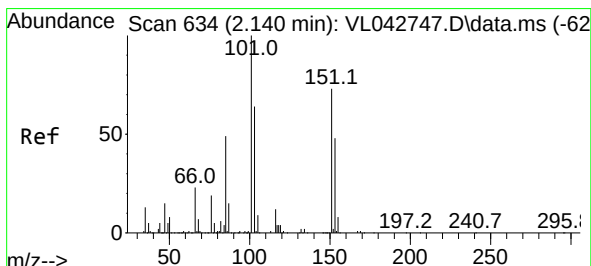
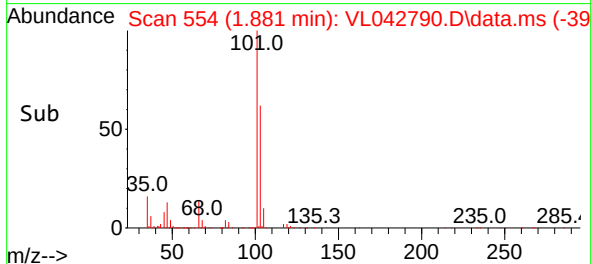
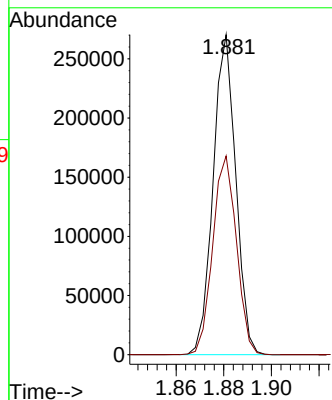
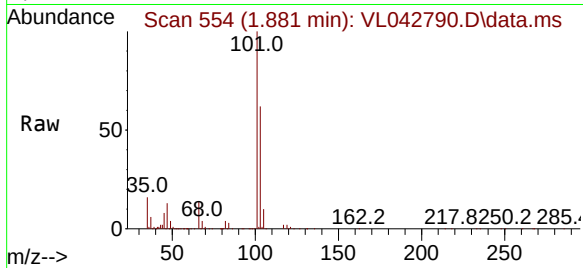




#11
 Trichlorofluoromethane
 Concen: 9.314 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

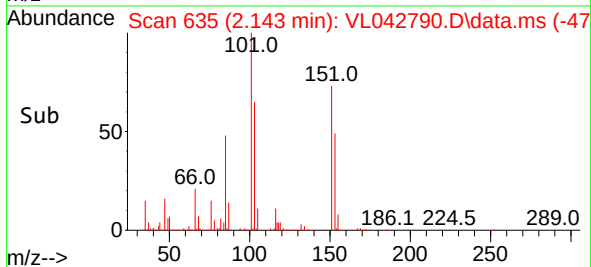
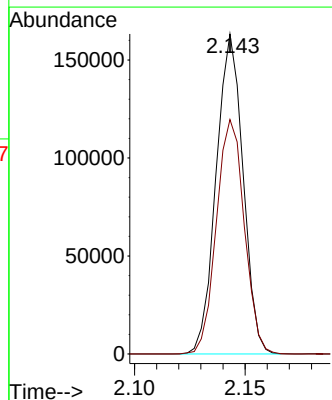
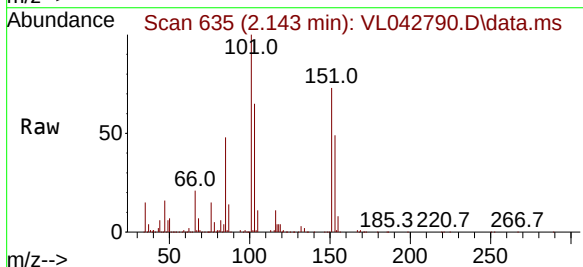
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

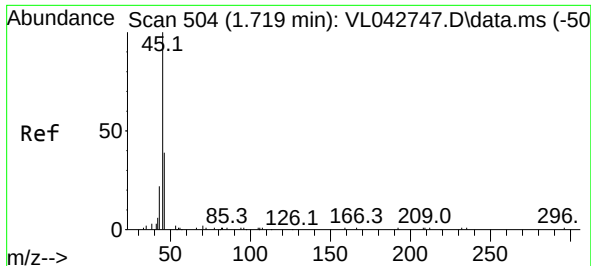
Tgt Ion:101 Resp: 178945
 Ion Ratio Lower Upper
 101 100
 103 62.1 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.446 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion:101 Resp: 137912
 Ion Ratio Lower Upper
 101 100
 151 76.0 60.5 90.7

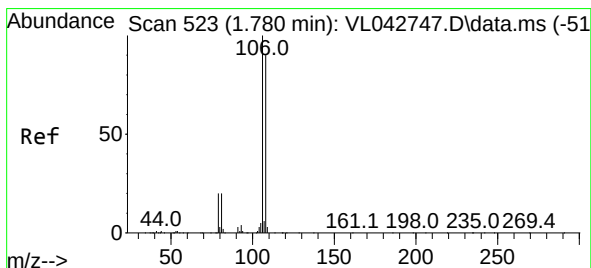
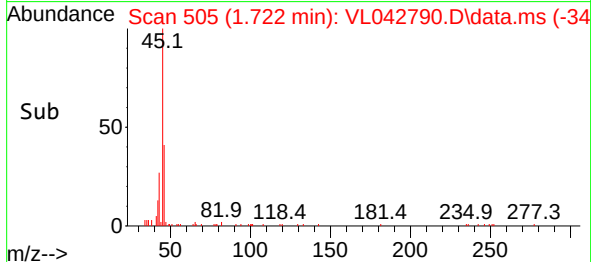
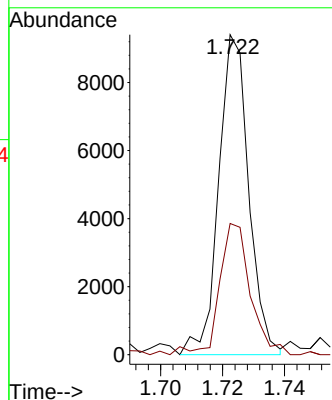
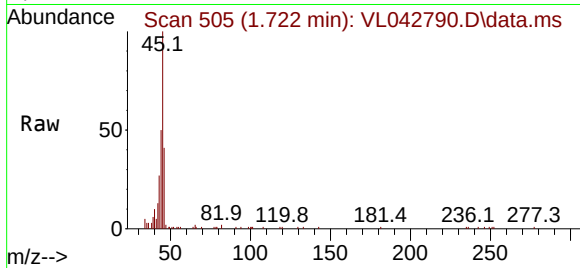




#13
 Ethanol
 Concen: 8.701 ppbv
 RT: 1.722 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

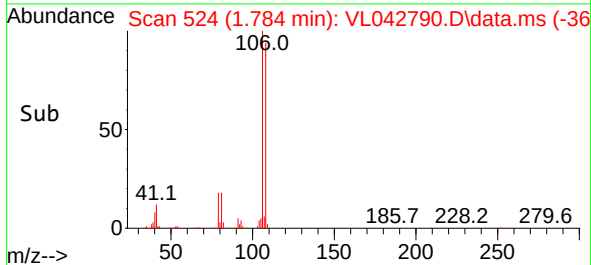
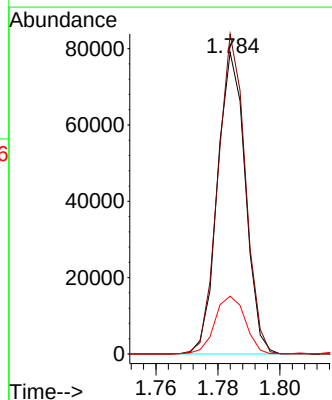
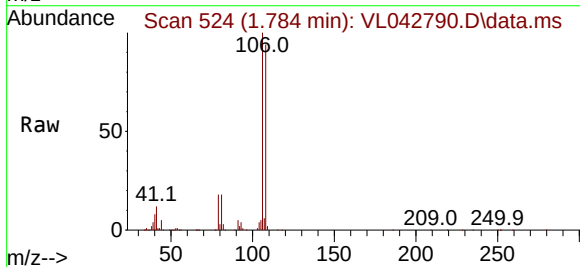
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

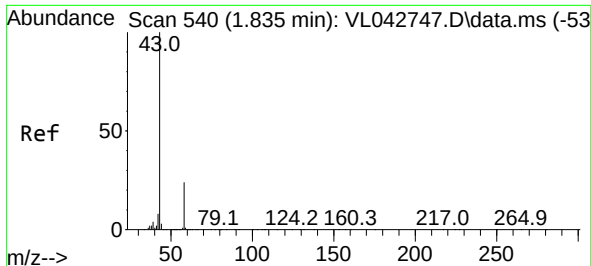
Tgt Ion: 45 Resp: 6331
 Ion Ratio Lower Upper
 45 100
 46 42.3 17.8 71.4



#14
 Bromoethene
 Concen: 9.543 ppbv
 RT: 1.784 min Scan# 524
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 108 Resp: 49330
 Ion Ratio Lower Upper
 108 100
 106 104.2 84.7 127.1
 79 21.5 17.4 26.2

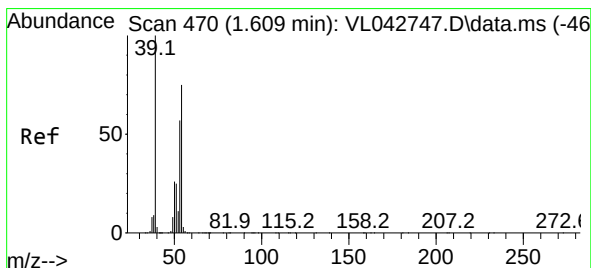
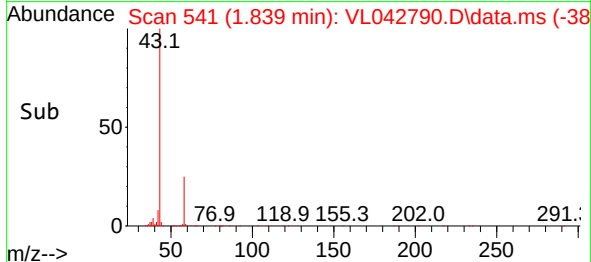
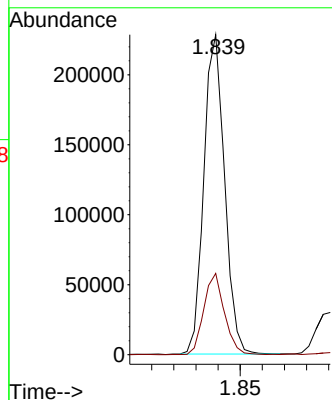
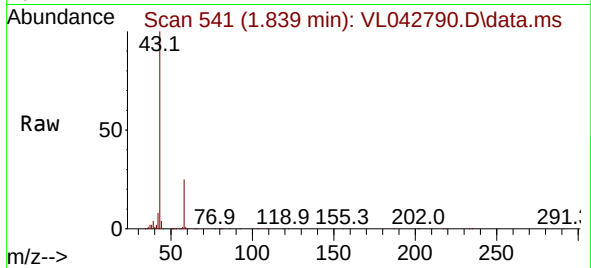




#15
Acetone
Concen: 7.590 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

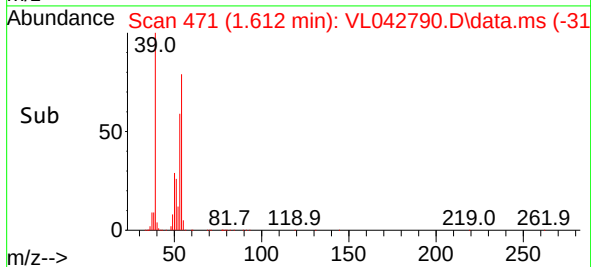
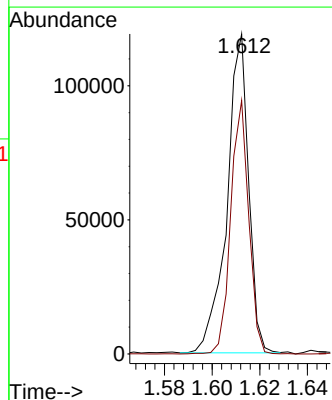
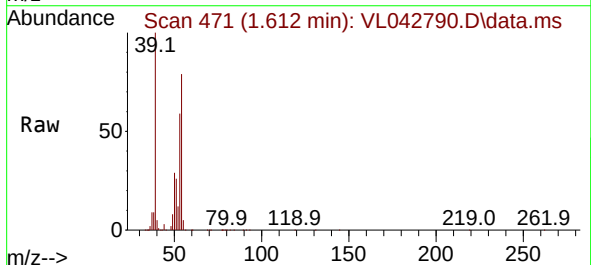
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

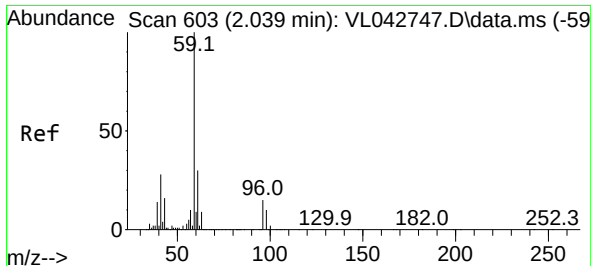
Tgt Ion: 43 Resp: 147760
Ion Ratio Lower Upper
43 100
58 25.5 19.8 29.8



#16
1,3-Butadiene
Concen: 9.012 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 39 Resp: 74826
Ion Ratio Lower Upper
39 100
54 66.1 54.5 81.7





#17

tert-Butyl alcohol

Concen: 8.987 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

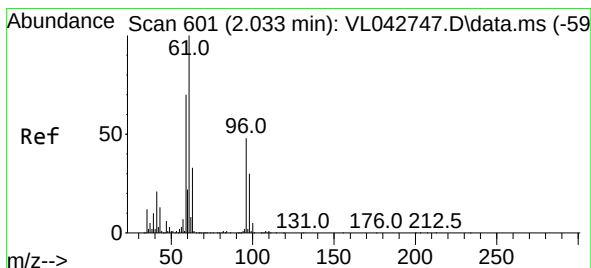
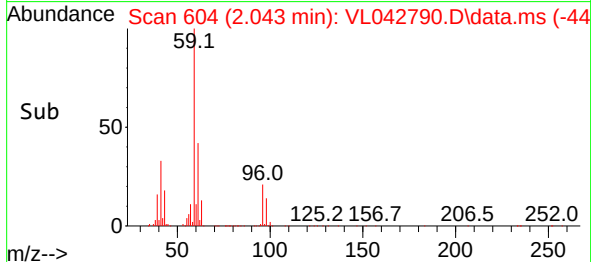
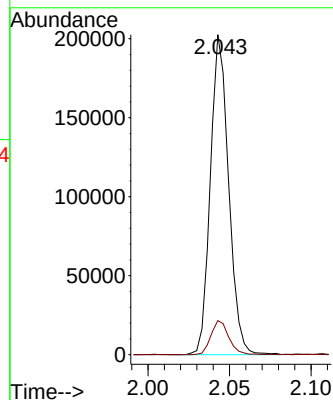
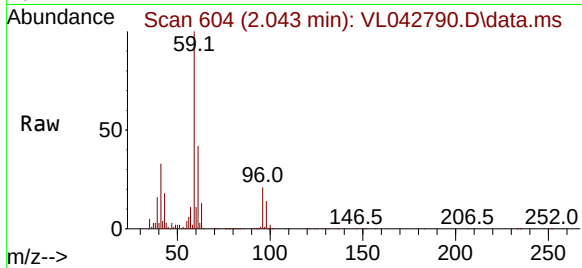
VL0731ABS01

Tgt Ion: 59 Resp: 157784

Ion Ratio Lower Upper

59 100

57 10.6 8.3 12.5



#18

1,1-Dichloroethene

Concen: 9.016 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

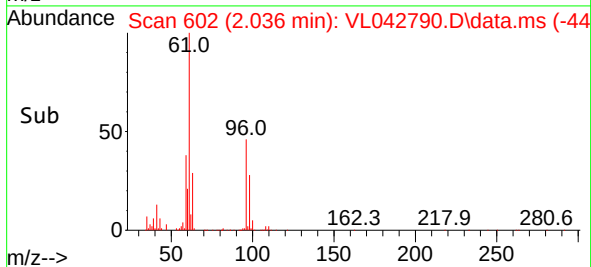
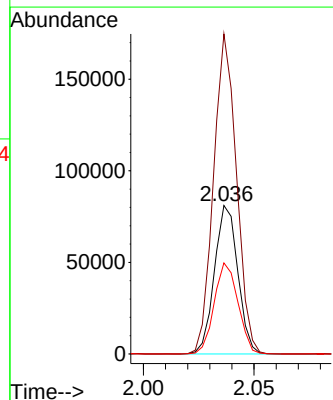
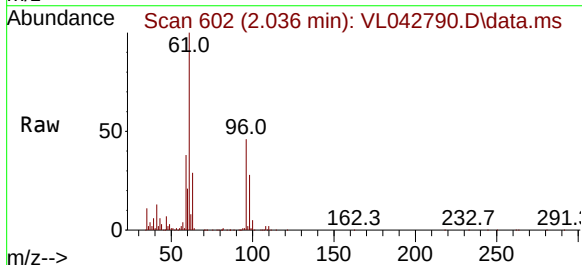
Tgt Ion: 96 Resp: 59478

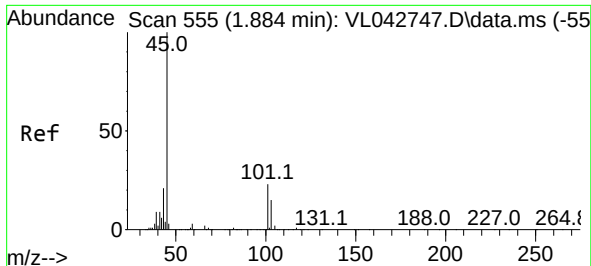
Ion Ratio Lower Upper

96 100

61 215.5 165.8 248.6

98 61.3 49.9 74.9

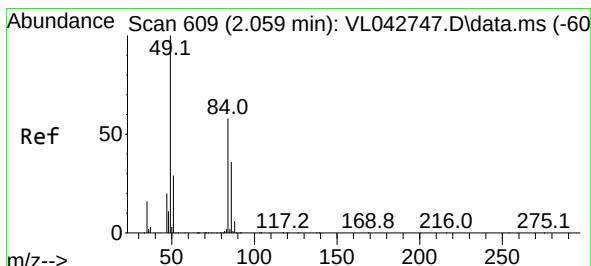
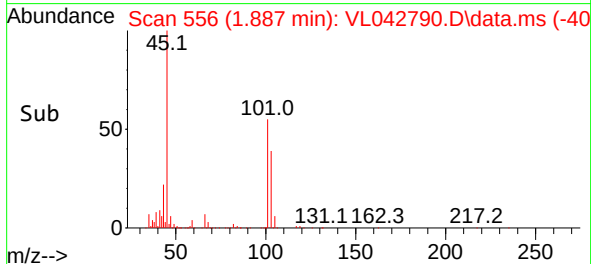
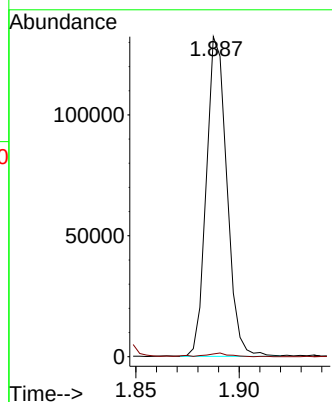
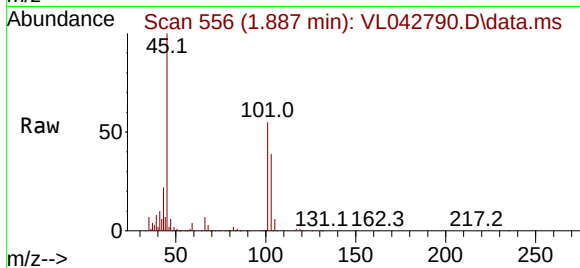




#19
Isopropyl Alcohol
Concen: 8.823 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

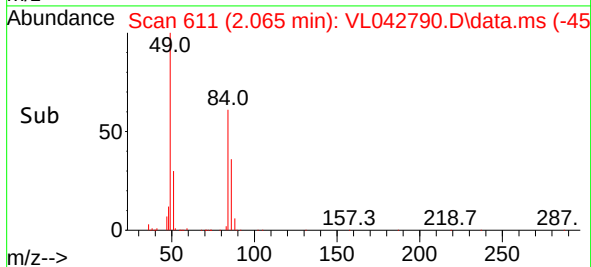
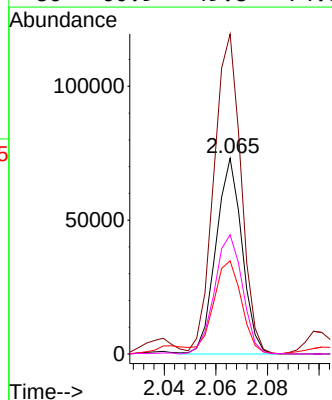
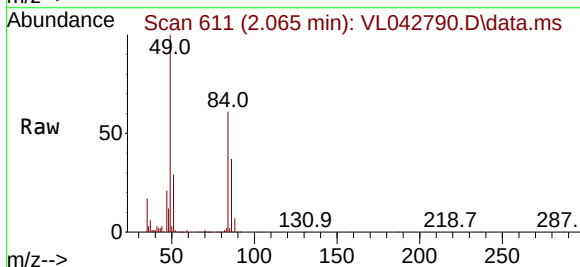
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

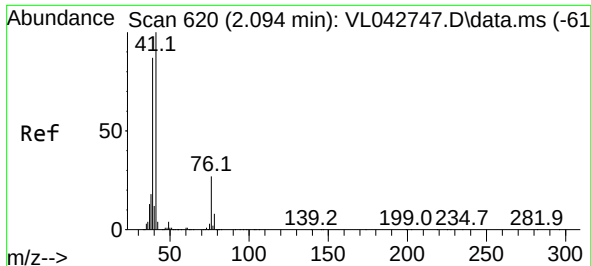
Tgt Ion: 45 Resp: 91274
Ion Ratio Lower Upper
45 100
58 41.3 30.0 45.0



#20
Methylene Chloride
Concen: 8.372 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 84 Resp: 51356
Ion Ratio Lower Upper
84 100
49 163.1 138.6 208.0
51 47.5 40.6 61.0
86 60.9 49.8 74.8

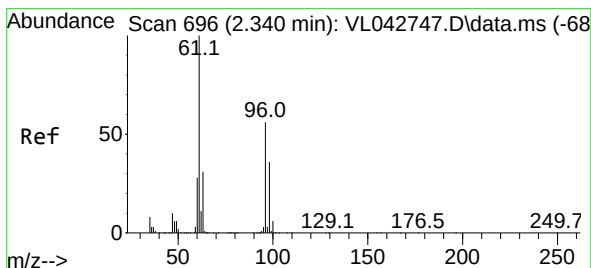
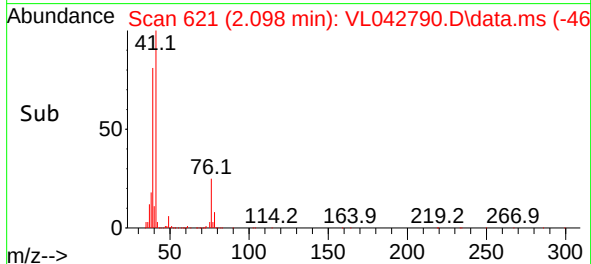
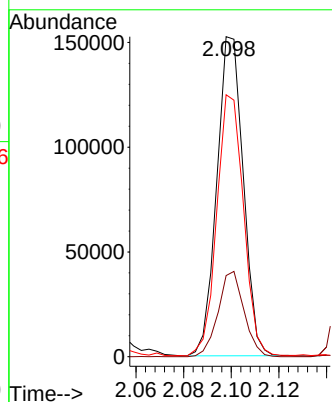
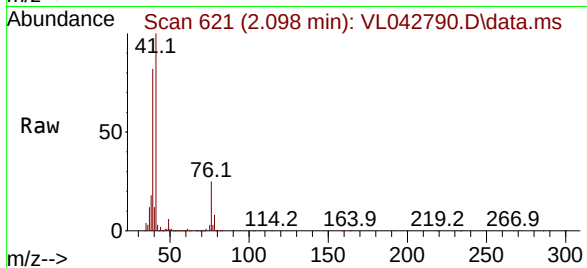




#21
 Allyl Chloride
 Concen: 9.776 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

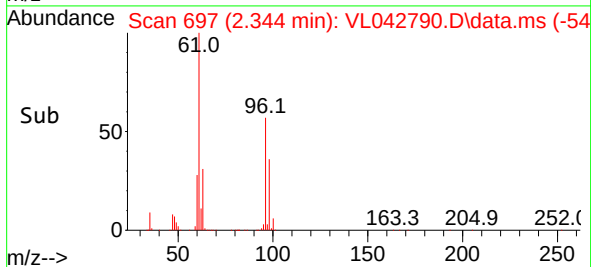
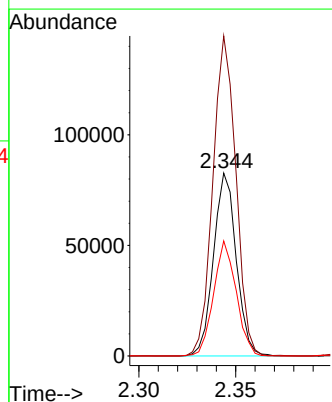
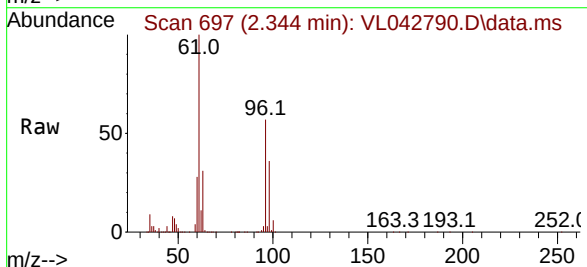
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABS01

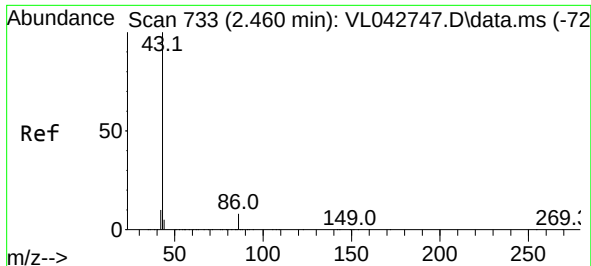
Tgt Ion: 41 Resp: 117287
 Ion Ratio Lower Upper
 41 100
 76 26.3 21.1 31.7
 39 82.6 68.3 102.5



#22
 trans-1,2-Dichloroethene
 Concen: 9.517 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 96 Resp: 67541
 Ion Ratio Lower Upper
 96 100
 61 175.0 142.3 213.5
 98 62.9 50.6 76.0



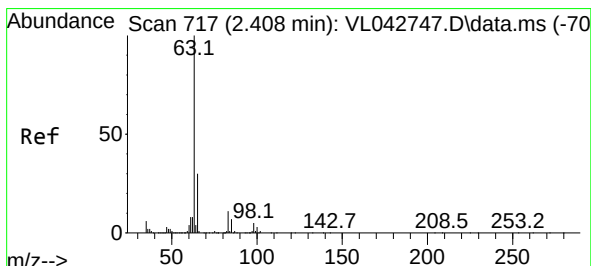
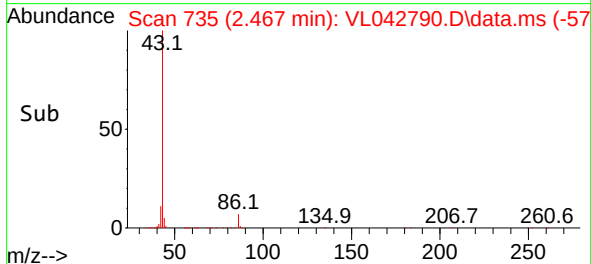
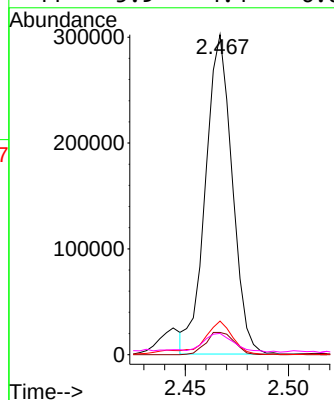
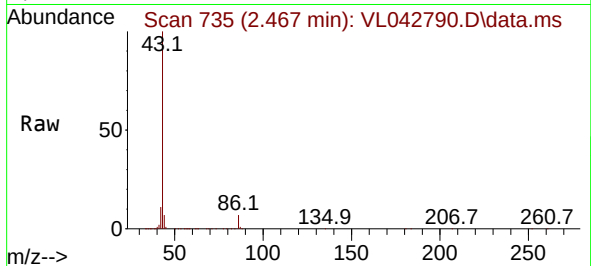


#23
 Vinyl Acetate
 Concen: 11.460 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.007 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABS01

Tgt Ion: 43 Resp: 270452

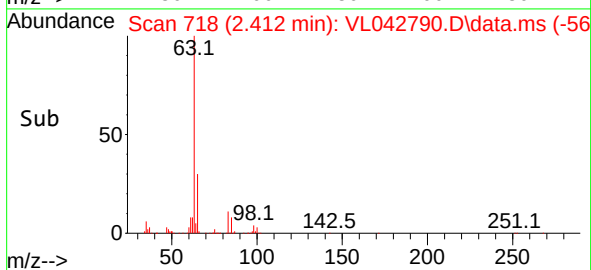
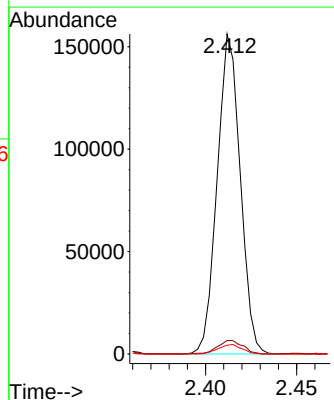
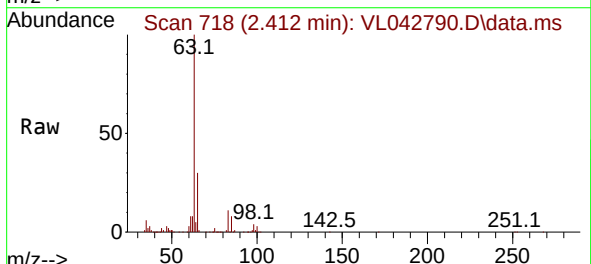
Ion	Ratio	Lower	Upper
43	100		
86	7.0	6.1	9.1
42	10.4	7.8	11.8
44	5.9	4.4	6.6

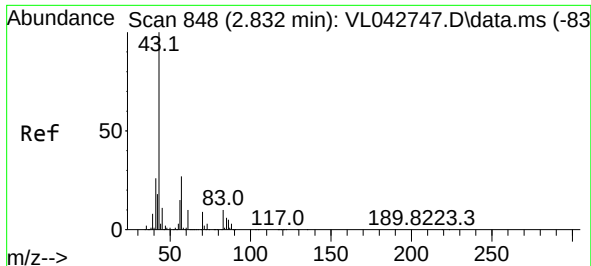


#24
 1,1-Dichloroethane
 Concen: 9.423 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 63 Resp: 137263

Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.5	7.4
100	2.8	1.6	4.8

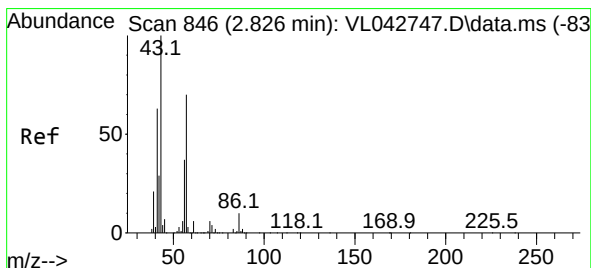
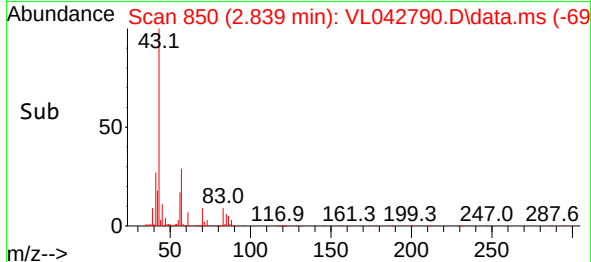
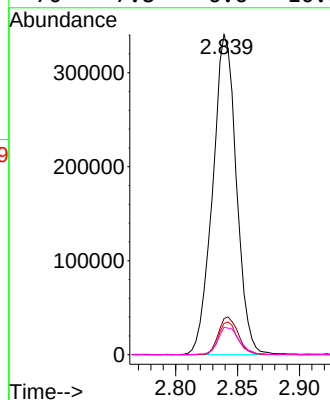
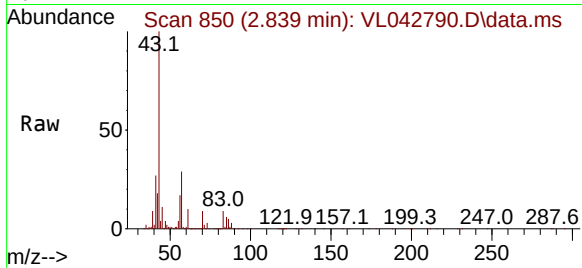




#25
Ethyl Acetate
Concen: 10.526 ppbv
RT: 2.839 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

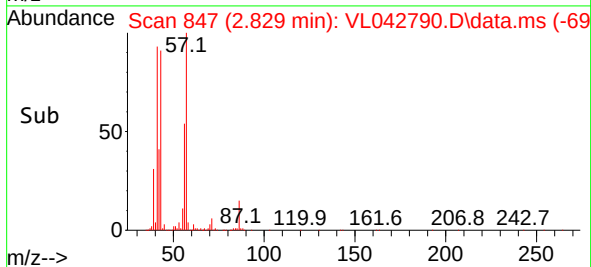
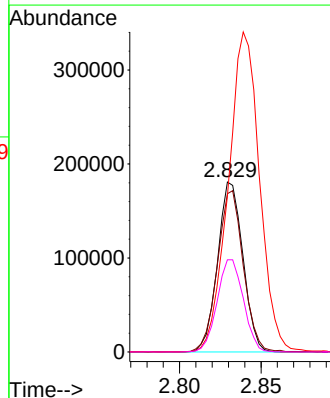
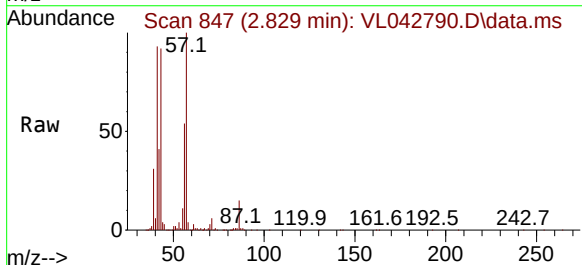
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

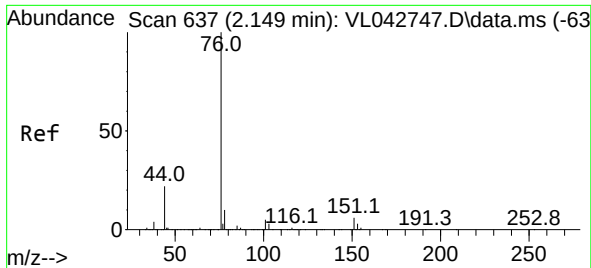
Tgt Ion: 43	Resp: 453552
Ion Ratio	Lower Upper
43 100	
45 9.9	7.8 11.6
61 8.3	6.7 10.1
70 7.8	6.6 10.0



#26
Hexane
Concen: 10.318 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 57	Resp: 195021
Ion Ratio	Lower Upper
57 100	
41 97.6	75.4 113.2
43 233.9	185.0 277.6
56 56.2	42.9 64.3

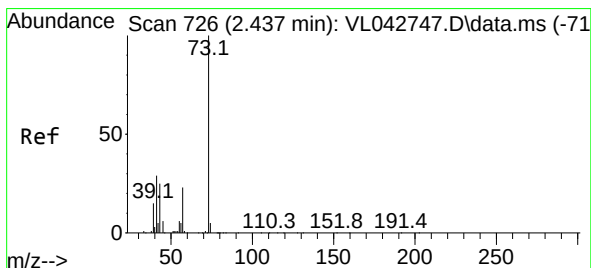
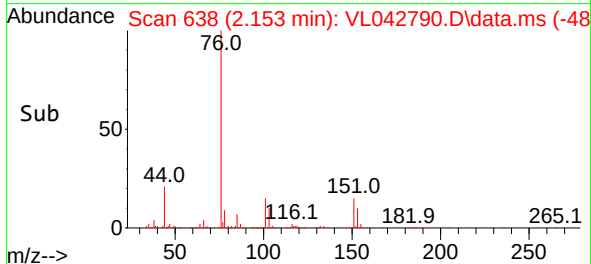
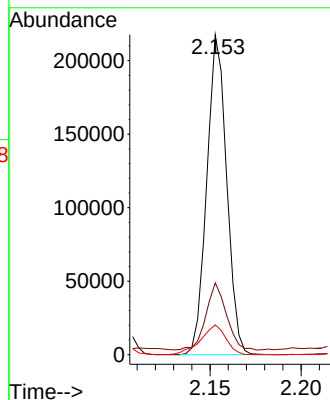
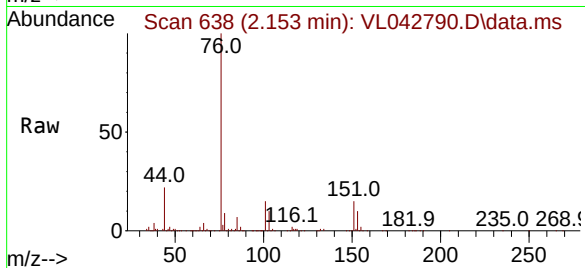




#27
Carbon Disulfide
Concen: 10.216 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

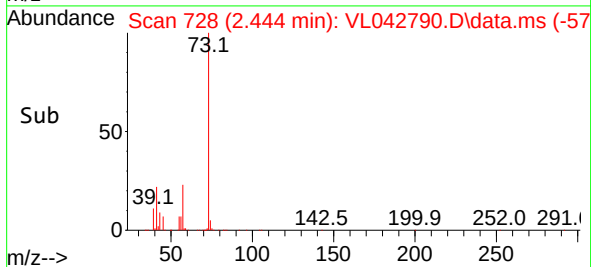
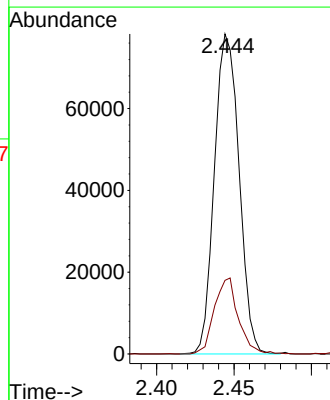
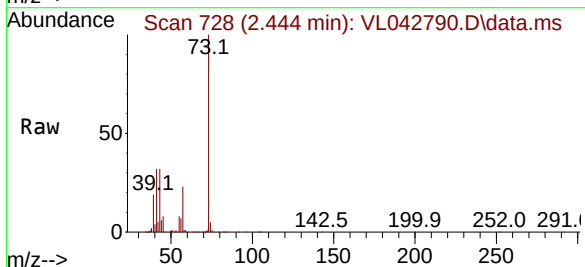
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

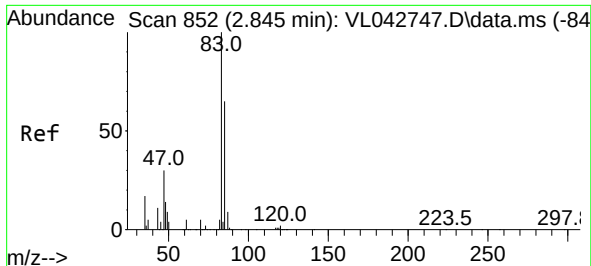
Tgt Ion: 76 Resp: 165318
Ion Ratio Lower Upper
76 100
44 21.3 19.3 28.9
78 11.8 9.9 14.9



#28
Methyl tert-Butyl Ether
Concen: 9.699 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 73 Resp: 86612
Ion Ratio Lower Upper
73 100
57 23.1 19.8 29.8





#29

Chloroform

Concen: 10.303 ppbv

RT: 2.852 min Scan# 852

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

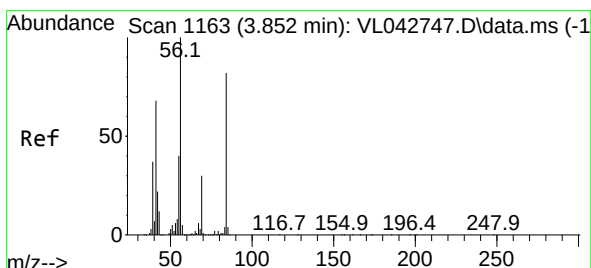
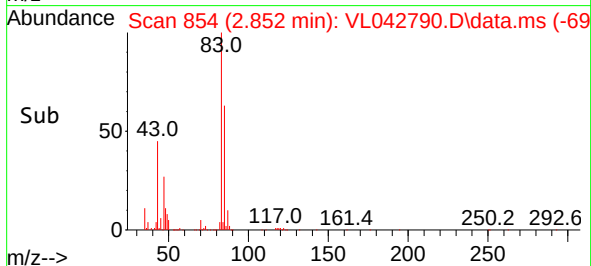
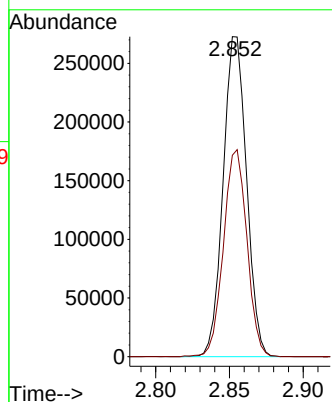
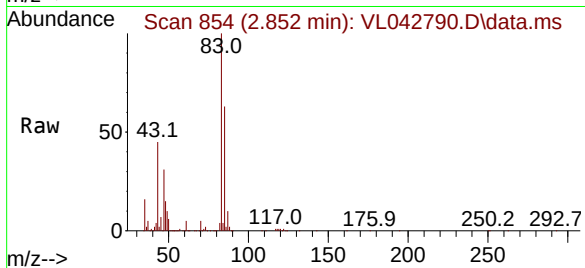
VL0731ABS01

Tgt Ion: 83 Resp: 300921

Ion Ratio Lower Upper

83 100

85 62.9 52.2 78.2



#30

Cyclohexane

Concen: 10.299 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.013 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

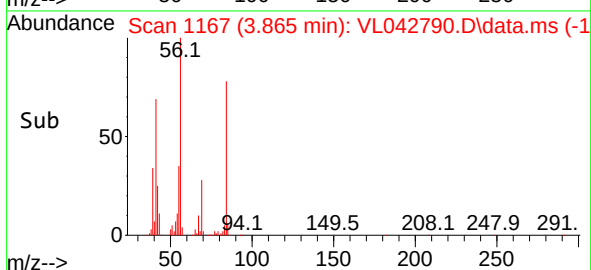
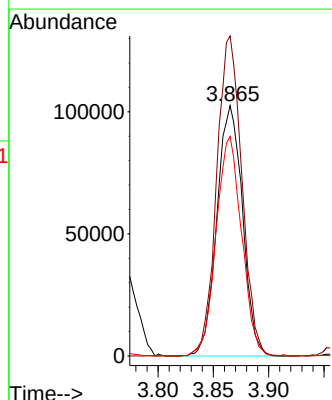
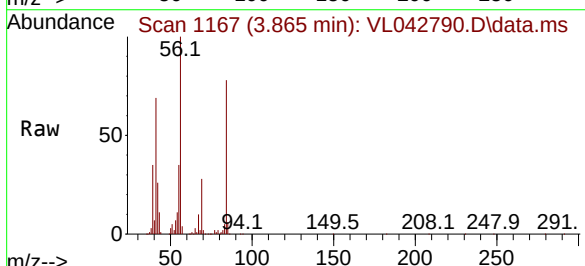
Tgt Ion: 84 Resp: 165101

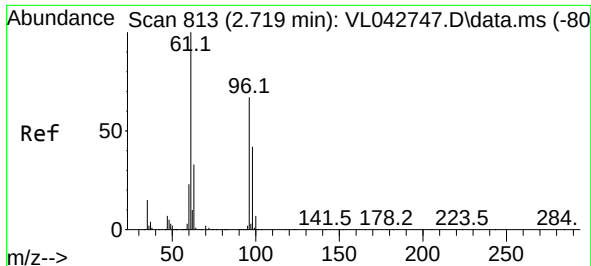
Ion Ratio Lower Upper

84 100

56 125.4 97.5 146.3

41 87.4 67.2 100.8

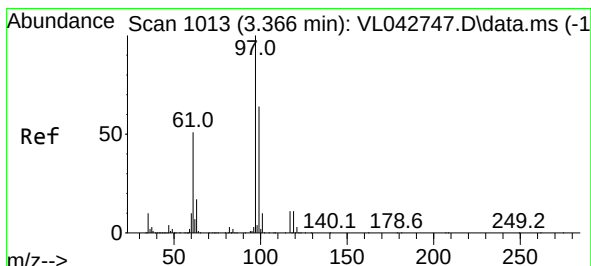
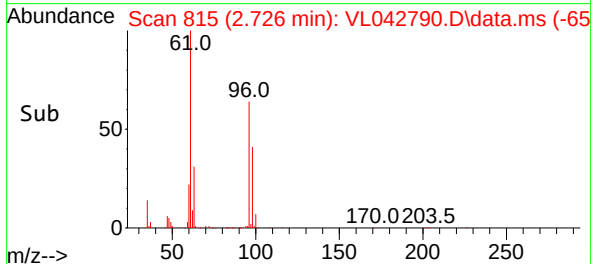
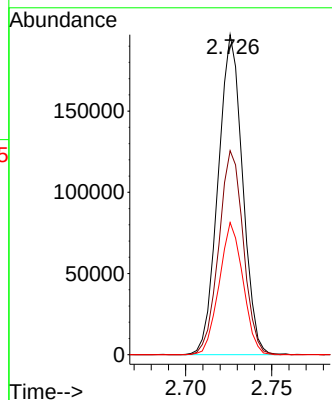
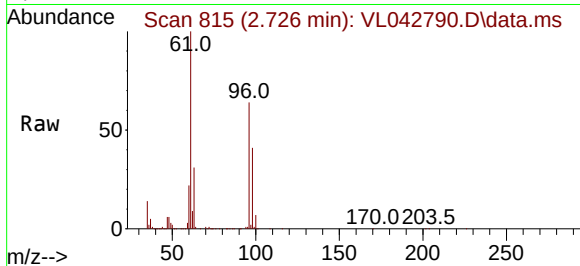




#31
 cis-1,2-Dichloroethene
 Concen: 10.022 ppbv
 RT: 2.726 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

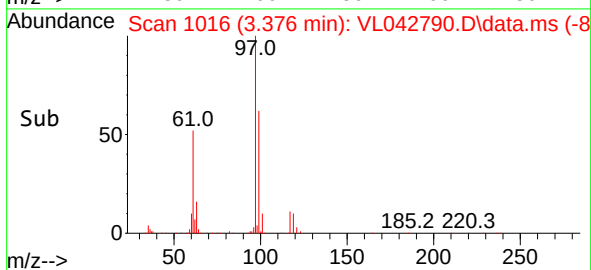
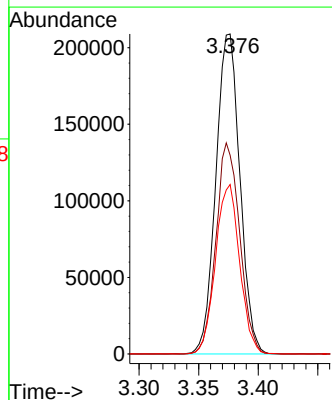
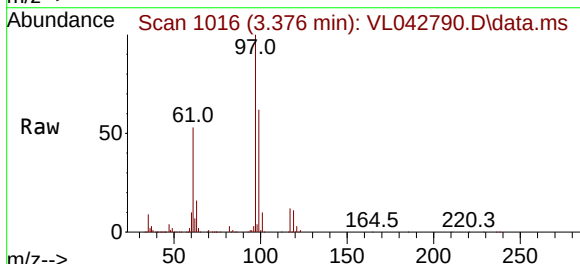
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

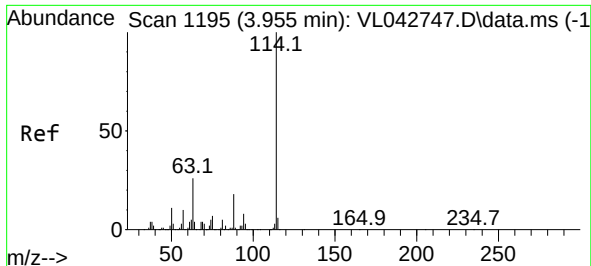
Tgt Ion: 61 Resp: 194661
 Ion Ratio Lower Upper
 61 100
 96 63.8 53.5 80.3
 98 41.3 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 9.647 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.010 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 97 Resp: 293497
 Ion Ratio Lower Upper
 97 100
 99 65.1 51.0 76.6
 61 53.3 40.9 61.3

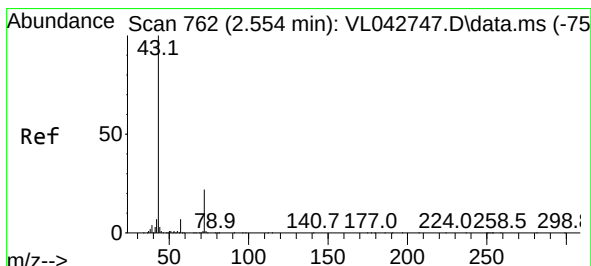
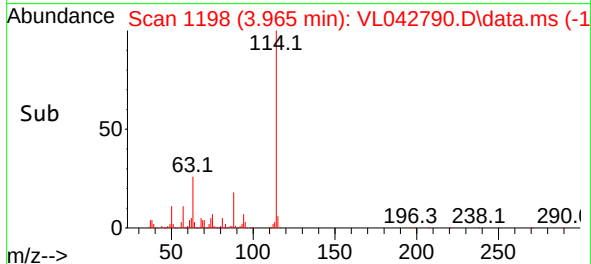
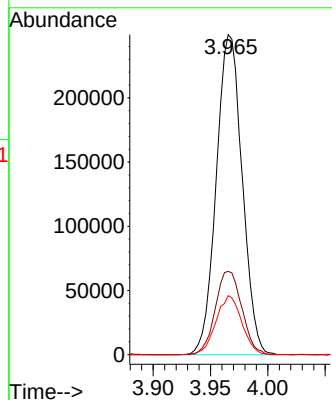
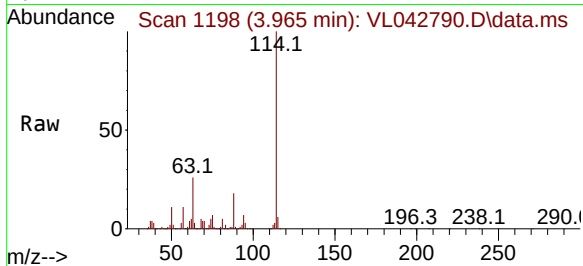




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1195
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

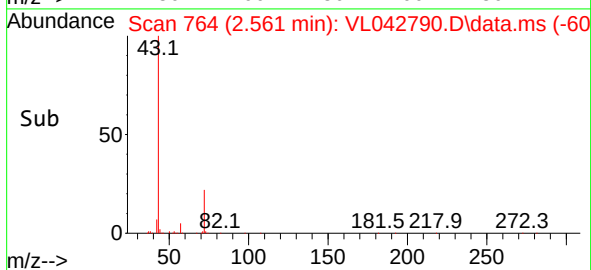
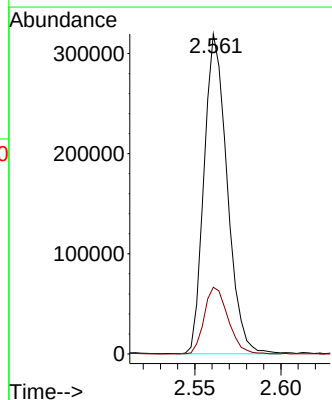
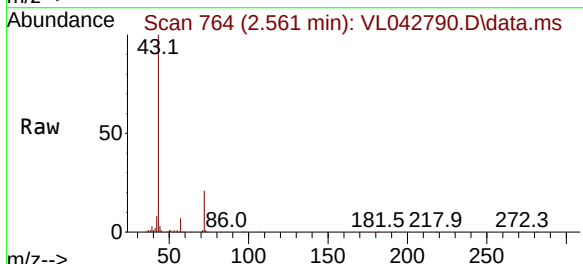
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

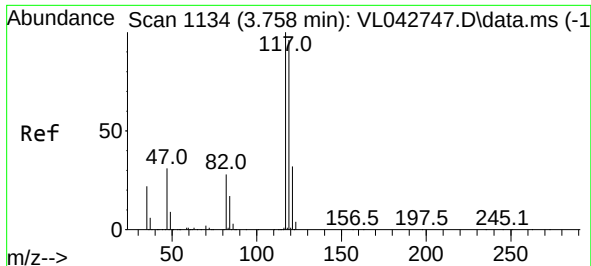
Tgt Ion:114 Resp: 391458
Ion Ratio Lower Upper
114 100
63 26.7 20.5 30.7
88 18.4 14.0 21.0



#34
2-Butanone
Concen: 10.758 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 43 Resp: 298296
Ion Ratio Lower Upper
43 100
72 21.6 17.4 26.0

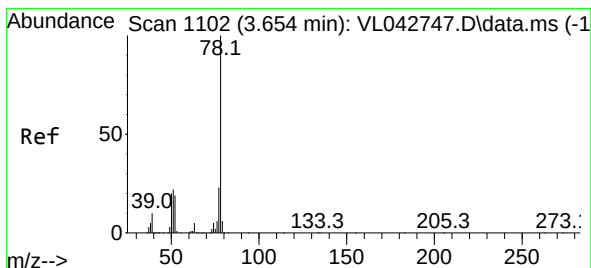
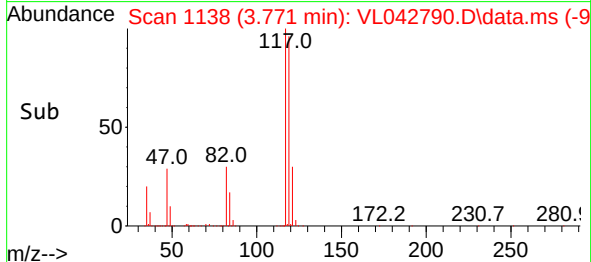
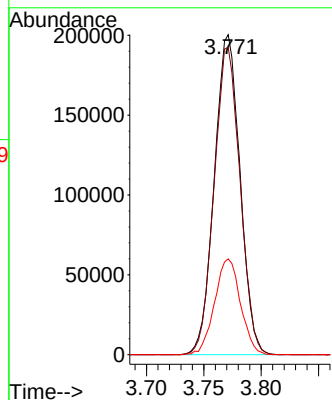
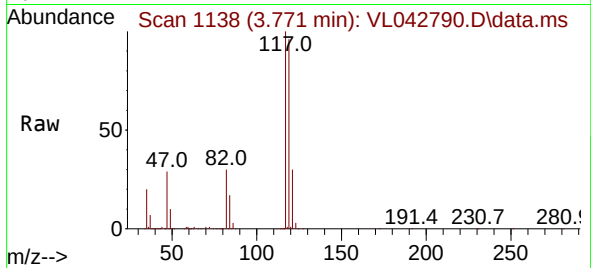




#35
Carbon Tetrachloride
Concen: 10.748 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

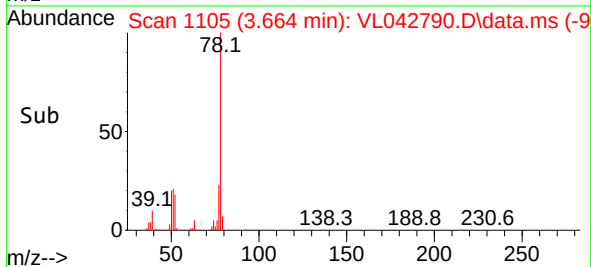
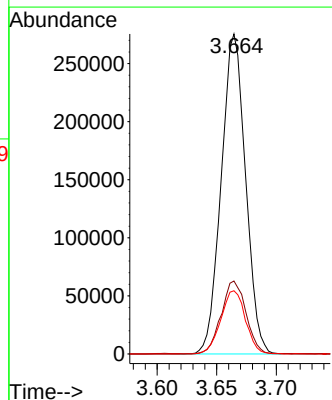
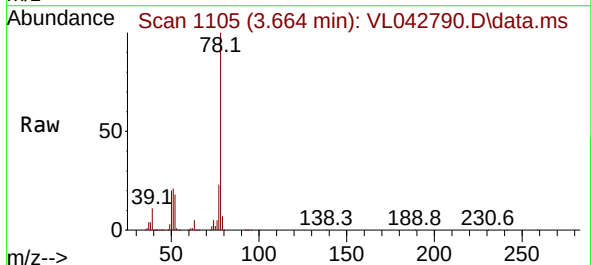
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

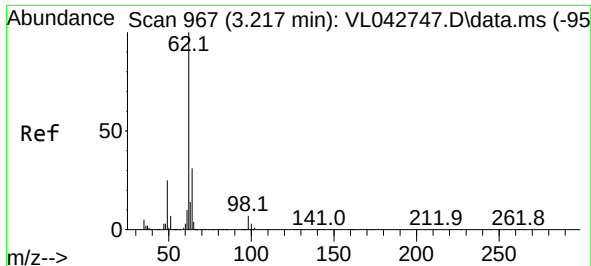
Tgt Ion:117 Resp: 312530
Ion Ratio Lower Upper
117 100
119 96.1 77.1 115.7
121 30.0 25.5 38.3



#36
Benzene
Concen: 10.536 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 78 Resp: 390877
Ion Ratio Lower Upper
78 100
77 22.7 18.5 27.7
50 19.8 16.2 24.2





#37

1,2-Dichloroethane

Concen: 10.589 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

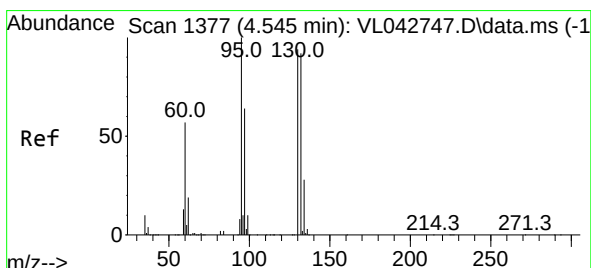
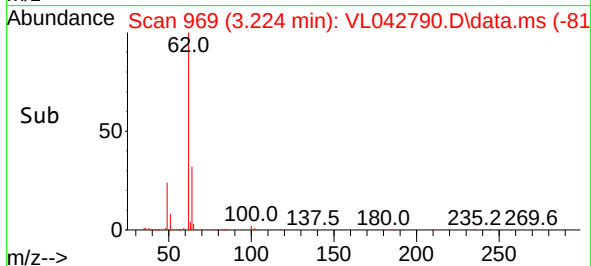
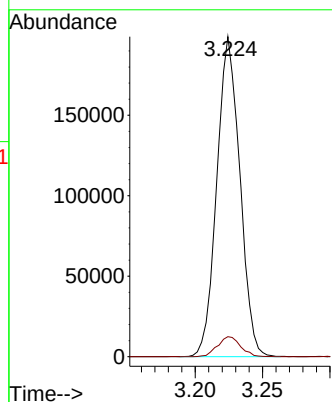
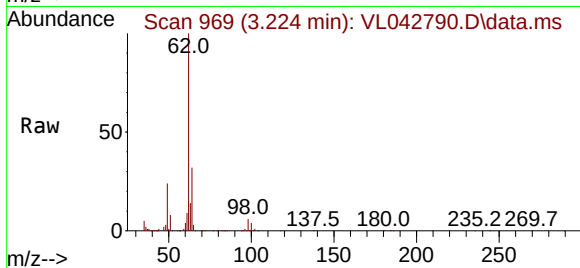
VL0731ABS01

Tgt Ion: 62 Resp: 236656

Ion Ratio Lower Upper

62 100

98 6.2 5.2 7.8



#38

Trichloroethene

Concen: 9.776 ppbv

RT: 4.558 min Scan# 1381

Delta R.T. 0.013 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Tgt Ion:130 Resp: 174246

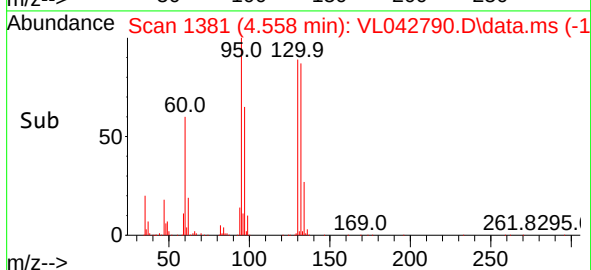
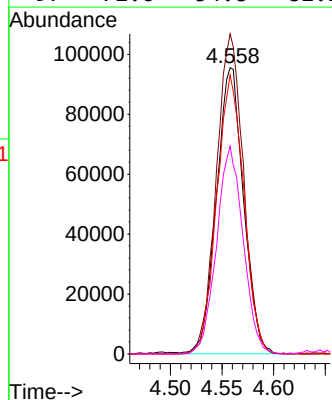
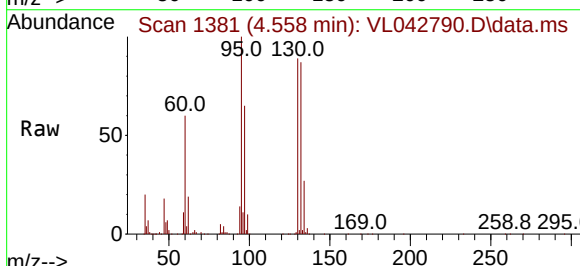
Ion Ratio Lower Upper

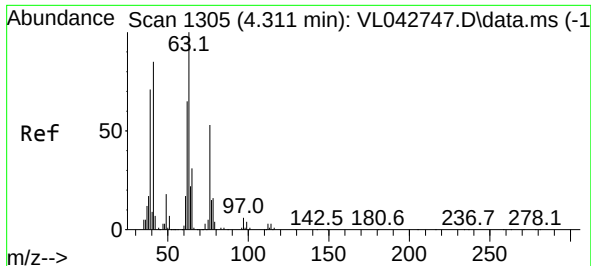
130 100

95 111.7 85.4 128.2

132 97.5 78.2 117.2

97 72.6 54.8 82.2





#39

1,2-Dichloropropane

Concen: 10.536 ppbv

RT: 4.321 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

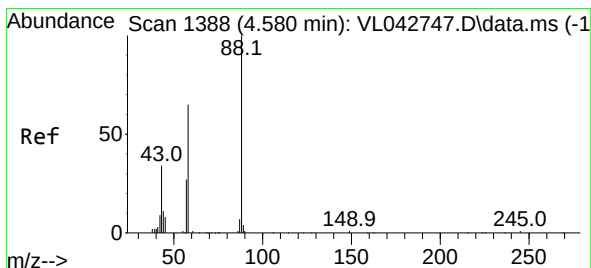
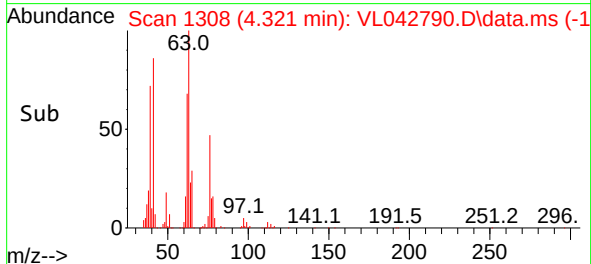
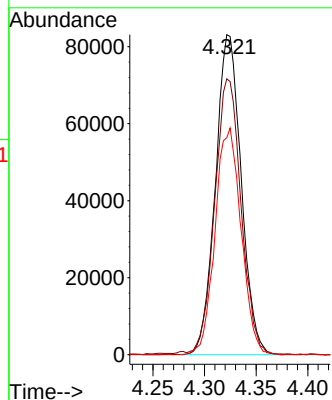
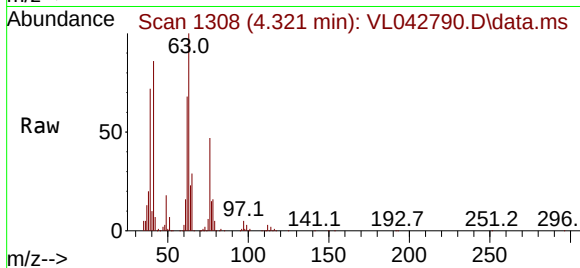
Tgt Ion: 63 Resp: 144288

Ion Ratio Lower Upper

63 100

41 86.0 68.2 102.4

62 67.8 52.0 78.0



#40

1,4-Dioxane

Concen: 8.594 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Tgt Ion: 88 Resp: 54856

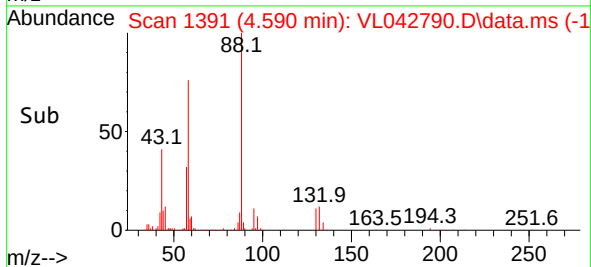
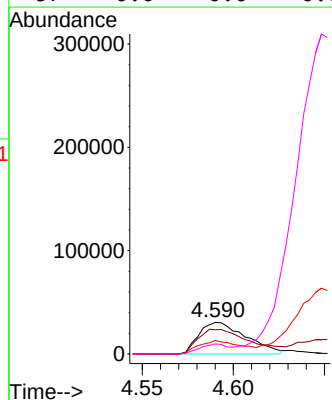
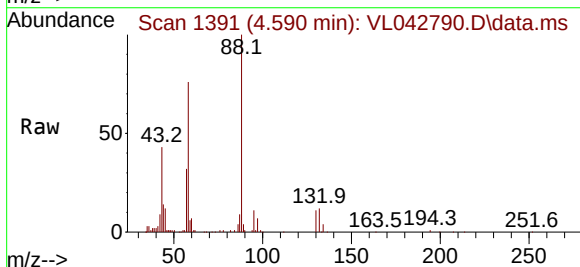
Ion Ratio Lower Upper

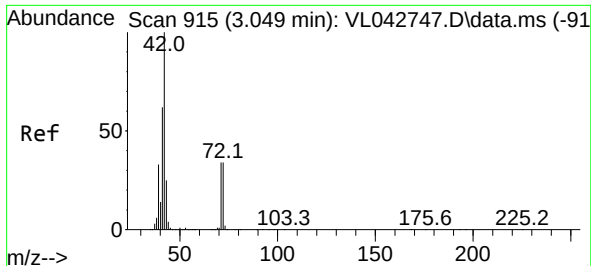
88 100

58 85.8 58.8 88.2

43 34.3 28.9 43.3

57 0.0 0.0 0.0

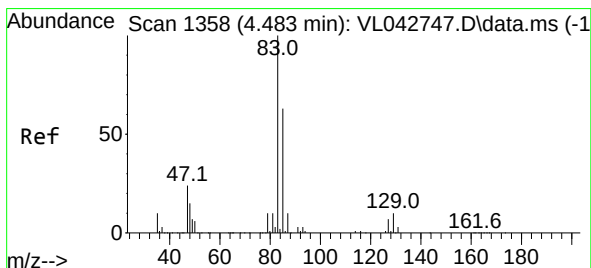
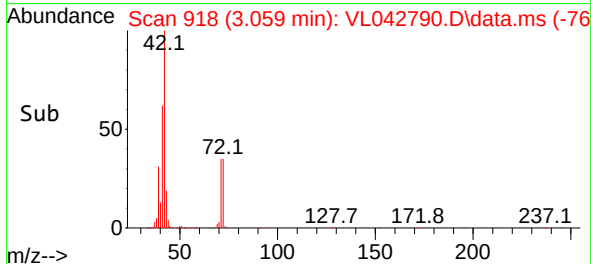
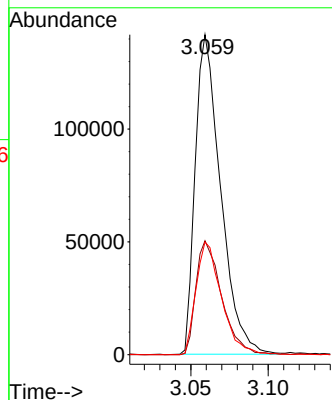
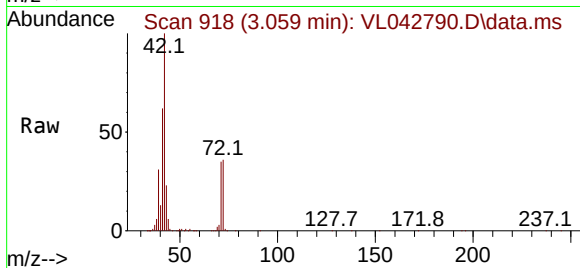




#41
Tetrahydrofuran
Concen: 11.448 ppbv
RT: 3.059 min Scan# 915
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

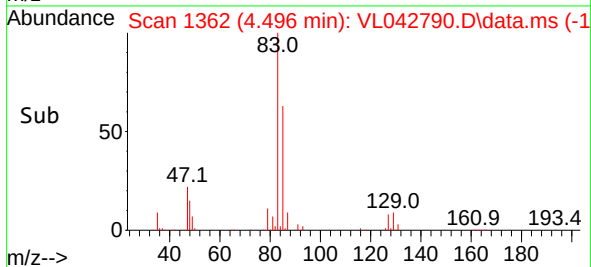
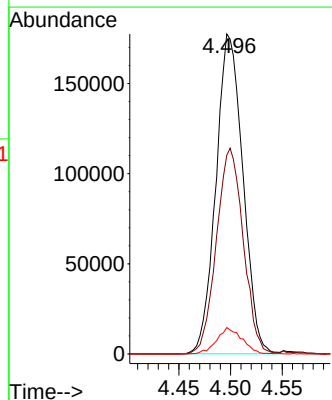
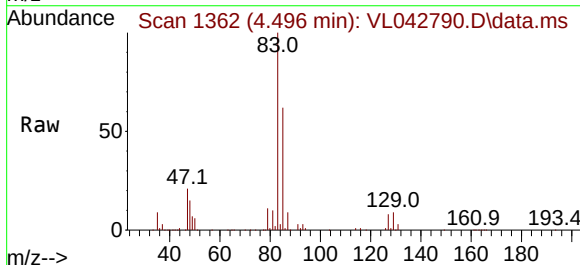
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

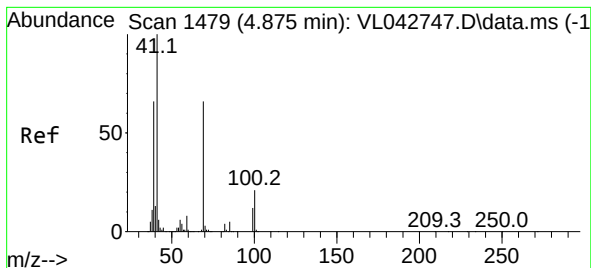
Tgt Ion: 42 Resp: 161537
Ion Ratio Lower Upper
42 100
72 36.5 30.9 46.3
71 35.5 28.6 43.0



#42
Bromodichloromethane
Concen: 11.059 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 83 Resp: 321891
Ion Ratio Lower Upper
83 100
85 62.2 50.2 75.4
127 8.2 5.4 8.2#





#43

Methyl Methacrylate

Concen: 11.512 ppbv

RT: 4.888 min Scan# 1479

Delta R.T. 0.013 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

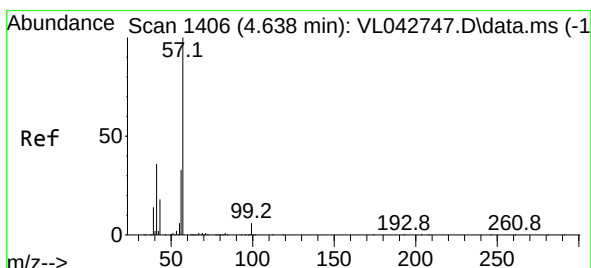
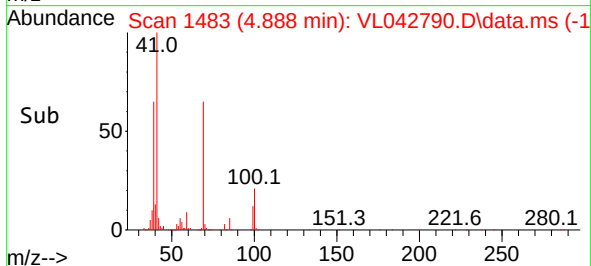
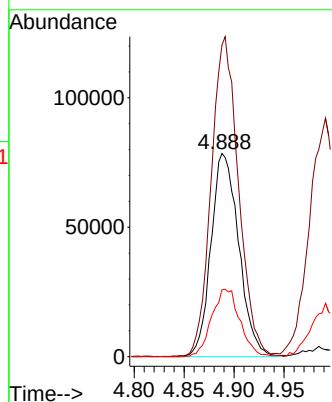
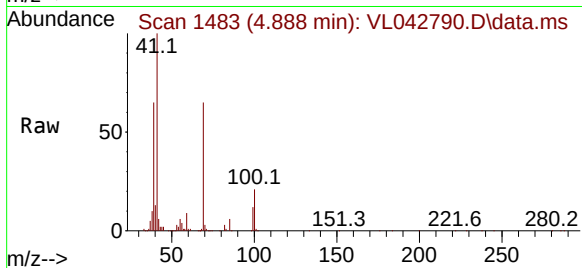
Tgt Ion: 69 Resp: 151803

Ion Ratio Lower Upper

69 100

41 154.2 125.7 188.5

100 33.8 28.6 42.8



#44

2,2,4-Trimethylpentane

Concen: 11.121 ppbv

RT: 4.648 min Scan# 1409

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

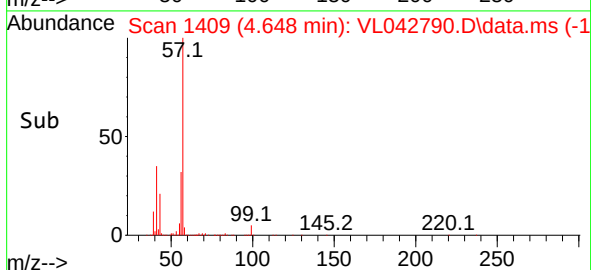
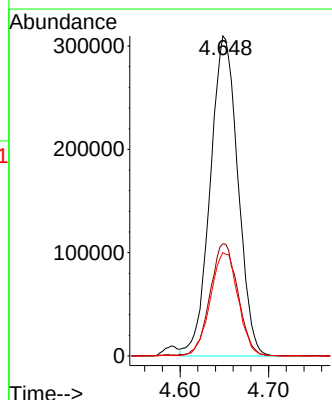
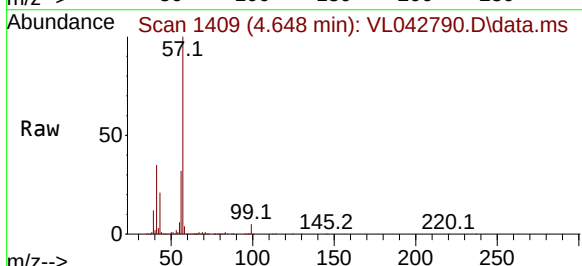
Tgt Ion: 57 Resp: 672509

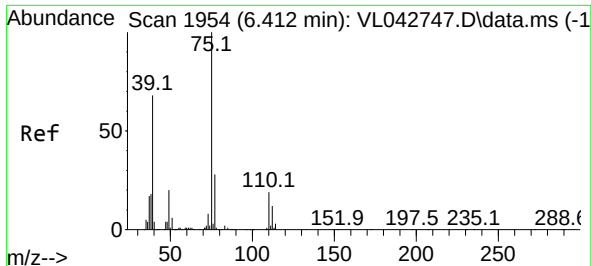
Ion Ratio Lower Upper

57 100

41 35.5 28.3 42.5

56 32.7 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 11.199 ppbv

RT: 6.425 min Scan# 1954

Delta R.T. 0.013 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_1

ClientSampleId :

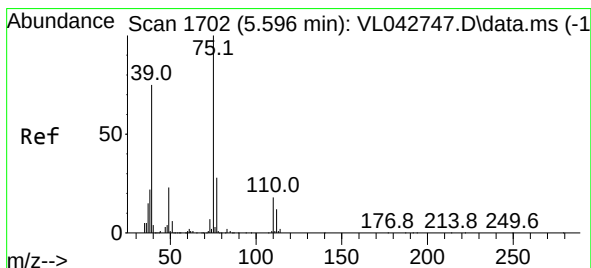
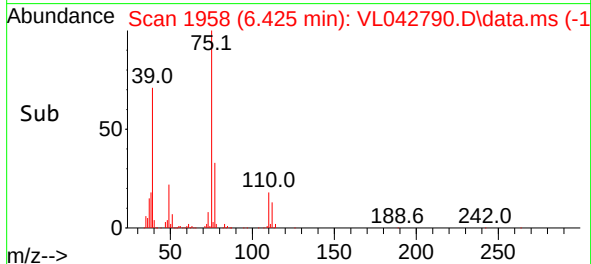
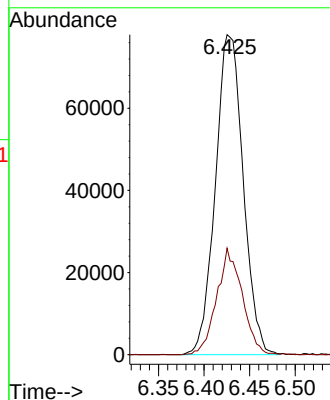
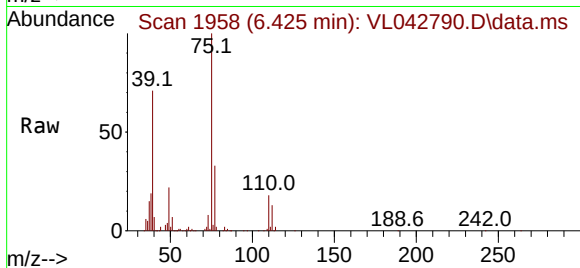
VL0731ABS01

Tgt Ion: 75 Resp: 165606

Ion Ratio Lower Upper

75 100

77 33.3 22.4 33.6



#46

cis-1,3-Dichloropropene

Concen: 11.143 ppbv

RT: 5.613 min Scan# 1707

Delta R.T. 0.016 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

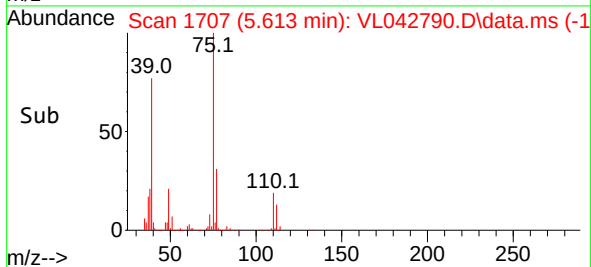
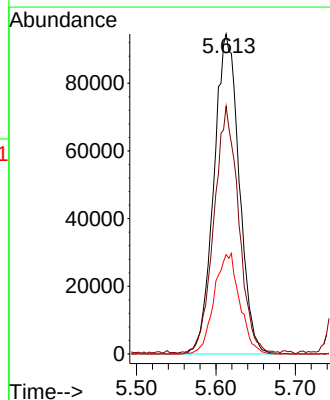
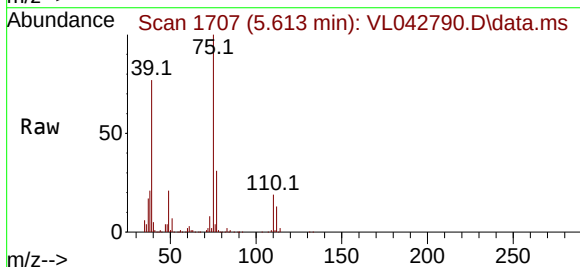
Tgt Ion: 75 Resp: 208804

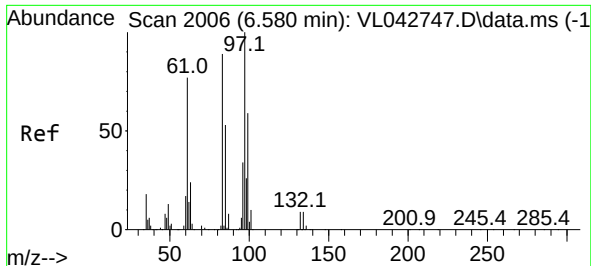
Ion Ratio Lower Upper

75 100

39 77.0 60.2 90.2

77 31.0 22.6 34.0

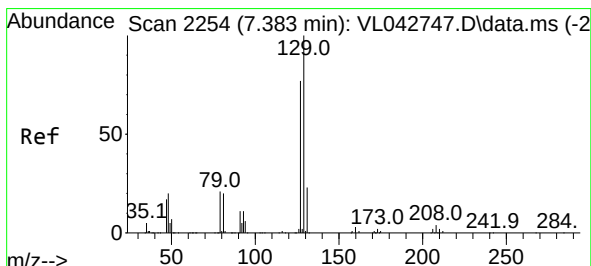
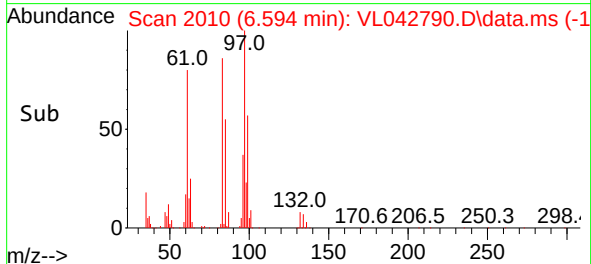
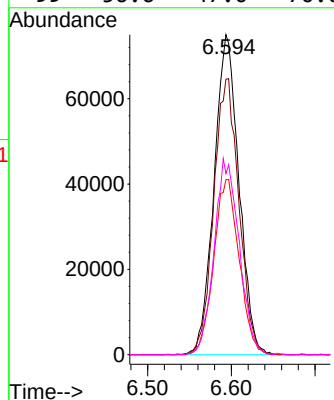
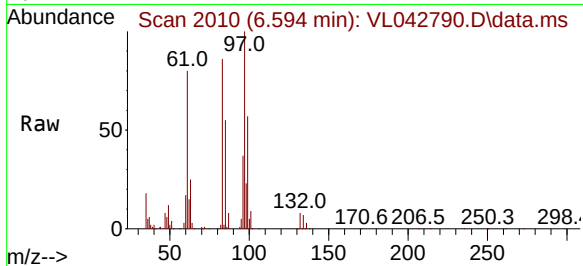




#47
1,1,2-Trichloroethane
Concen: 10.587 ppbv
RT: 6.594 min Scan# 20
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

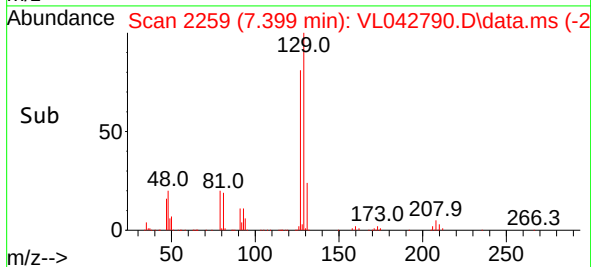
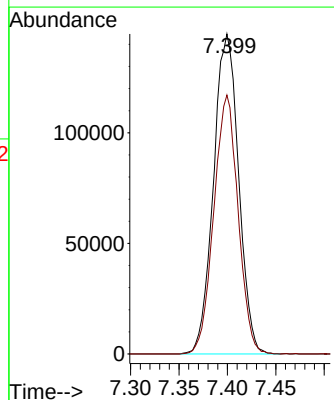
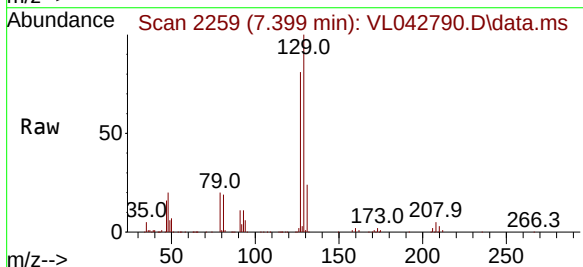
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

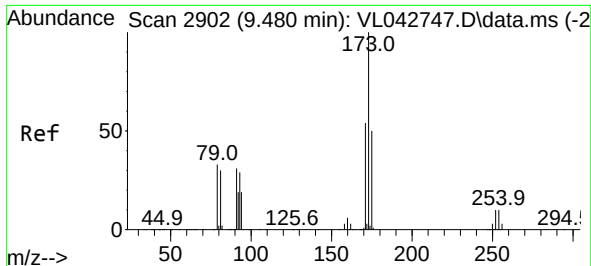
Tgt Ion: 97 Resp: 154552
Ion Ratio Lower Upper
97 100
83 86.1 71.1 106.7
85 54.7 43.0 64.4
99 56.6 47.0 70.6



#48
Dibromochloromethane
Concen: 11.278 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.016 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 129 Resp: 261380
Ion Ratio Lower Upper
129 100
127 78.2 38.7 116.1

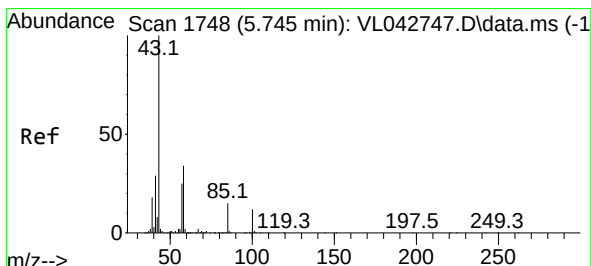
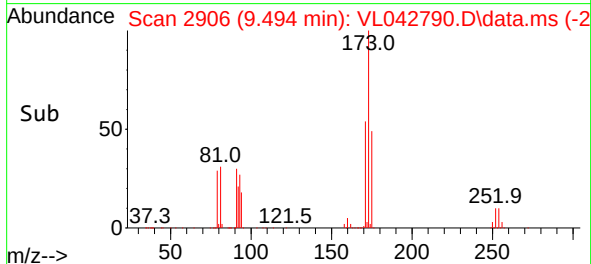
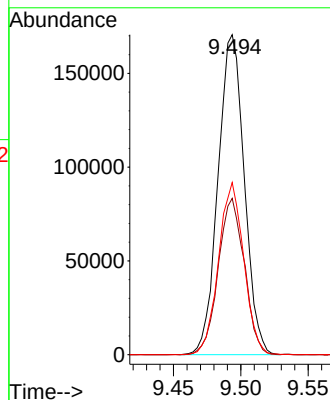
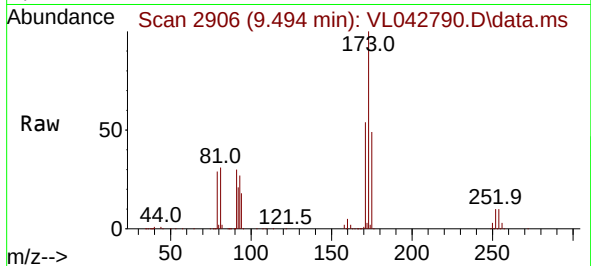




#49
 Bromoform
 Concen: 11.433 ppbv
 RT: 9.494 min Scan# 2906
 Delta R.T. 0.013 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

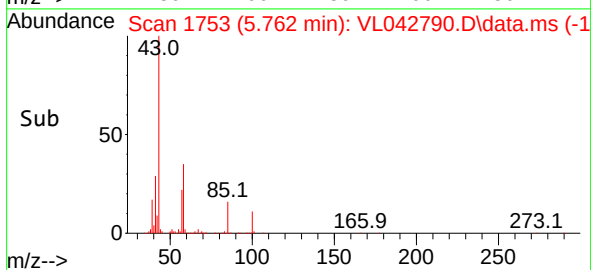
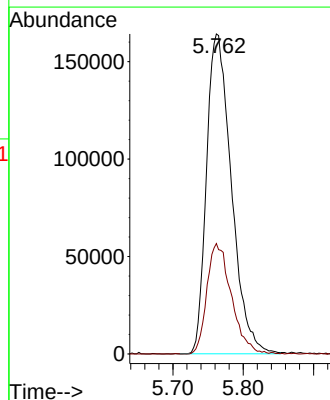
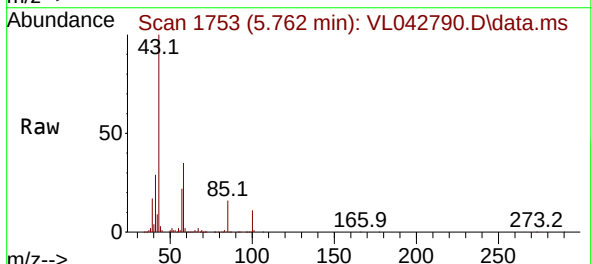
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABS01

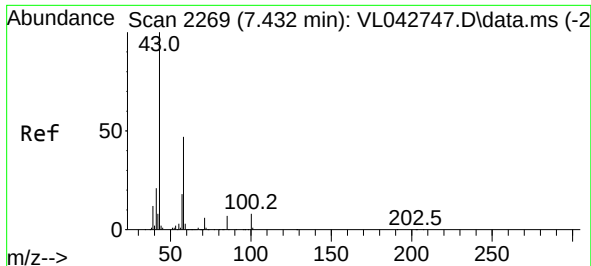
Tgt Ion:173 Resp: 231022
 Ion Ratio Lower Upper
 173 100
 175 48.6 38.4 57.6
 171 51.8 40.9 61.3



#50
 4-Methyl-2-Pentanone
 Concen: 11.270 ppbv
 RT: 5.762 min Scan# 1753
 Delta R.T. 0.016 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 43 Resp: 402543
 Ion Ratio Lower Upper
 43 100
 58 34.0 27.8 41.8

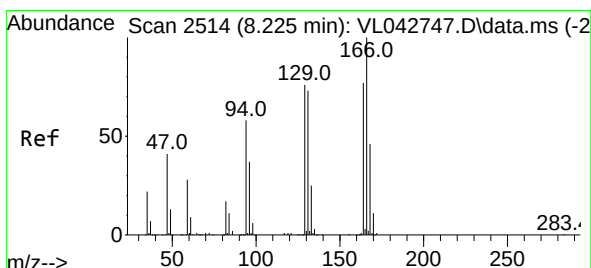
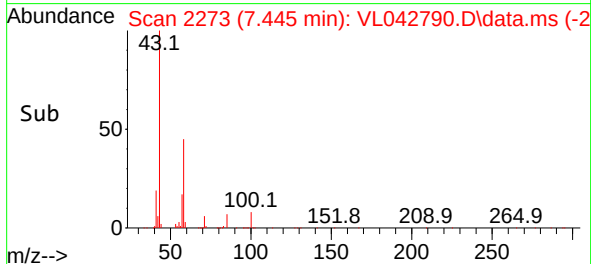
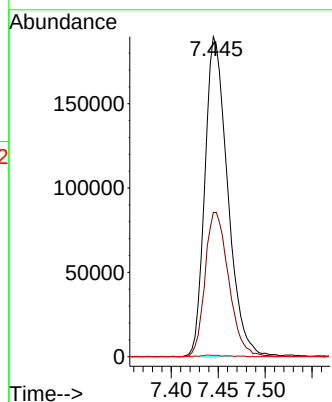
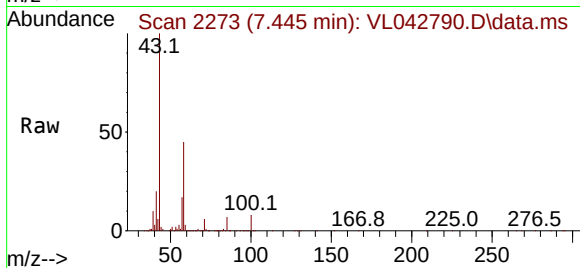




#51
2-Hexanone
Concen: 11.895 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

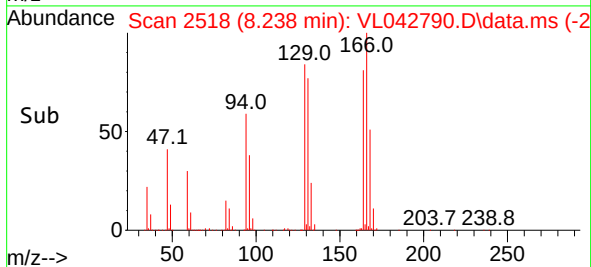
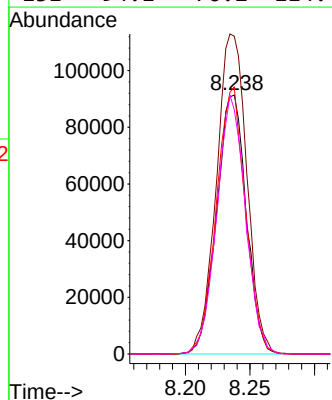
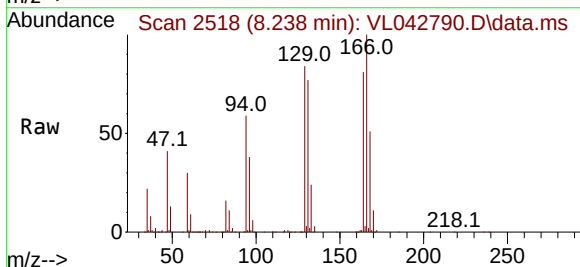
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

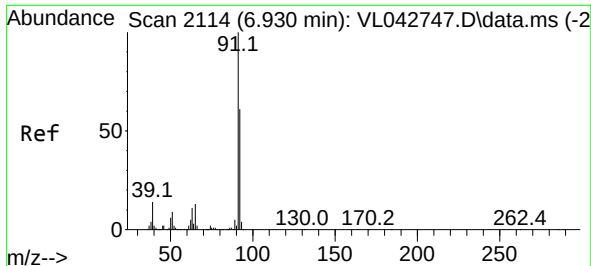
Tgt Ion: 43 Resp: 321076
Ion Ratio Lower Upper
43 100
58 46.7 38.0 57.0
98 0.6 0.2 0.4#



#52
Tetrachloroethene
Concen: 9.479 ppbv
RT: 8.238 min Scan# 2518
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 164 Resp: 145761
Ion Ratio Lower Upper
164 100
166 122.6 104.0 156.0
129 103.0 79.2 118.8
131 94.1 76.2 114.4

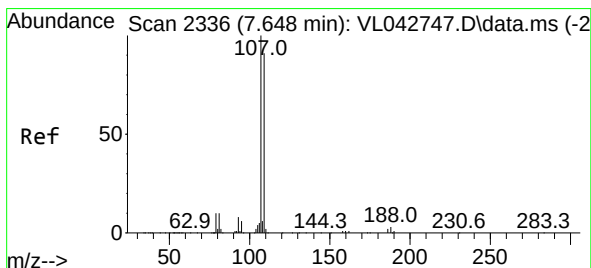
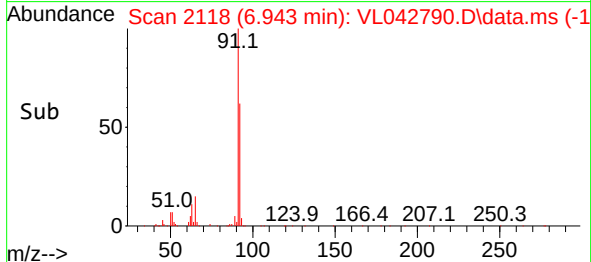
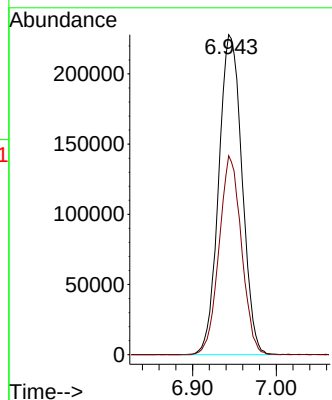
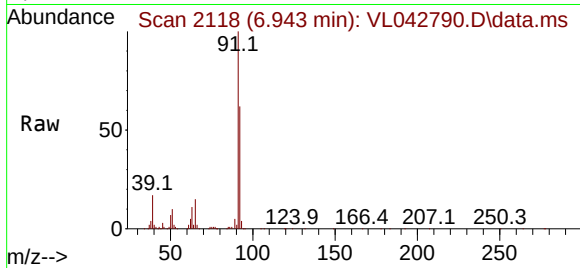




#53
Toluene
Concen: 11.041 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

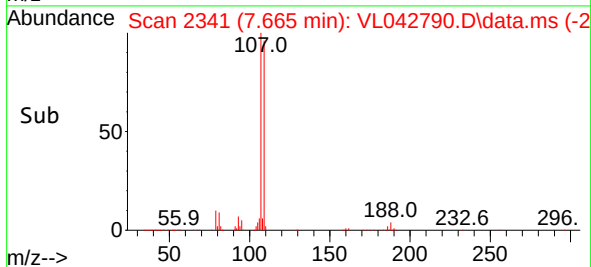
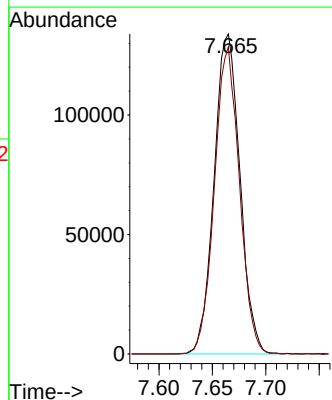
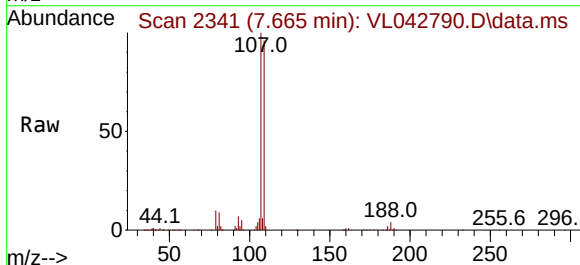
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

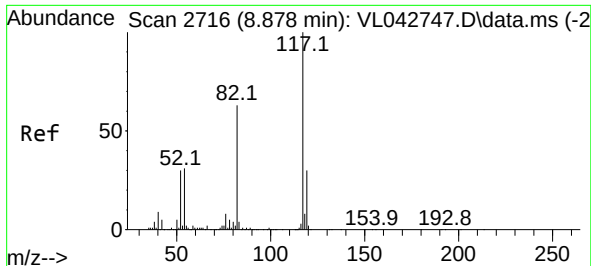
Tgt Ion: 91 Resp: 439867
Ion Ratio Lower Upper
91 100
92 59.7 48.0 72.0



#54
1,2-Dibromoethane
Concen: 10.928 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.016 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 107 Resp: 225399
Ion Ratio Lower Upper
107 100
109 95.9 72.7 109.1

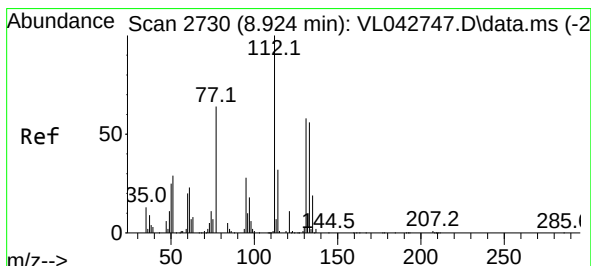
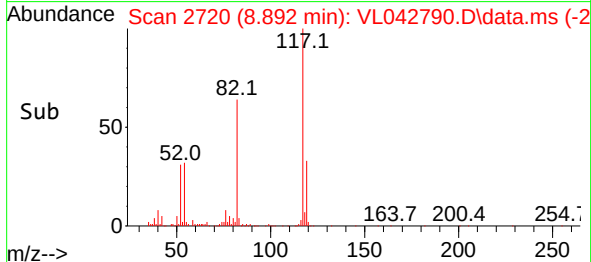
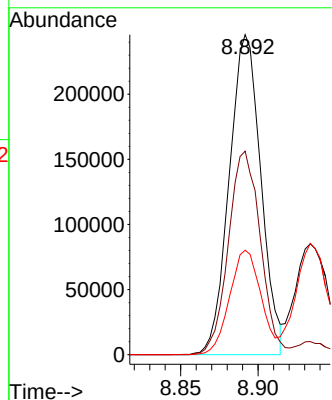
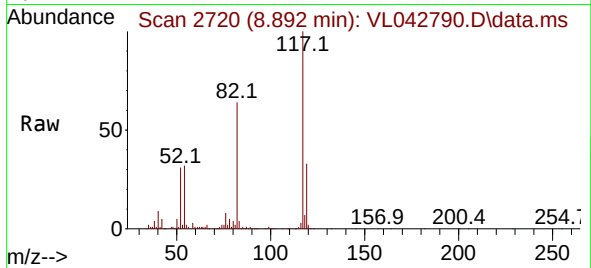




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

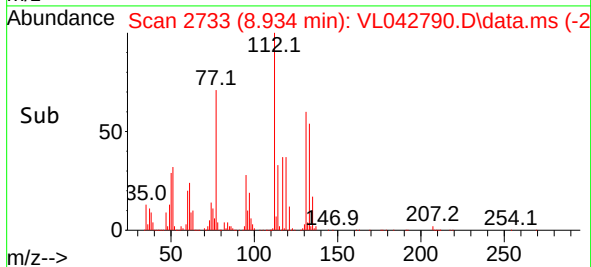
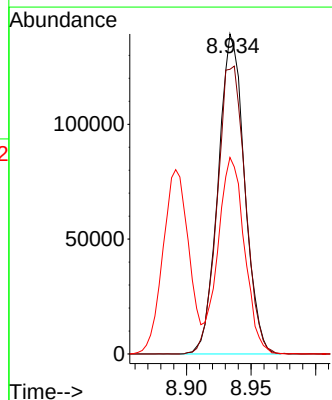
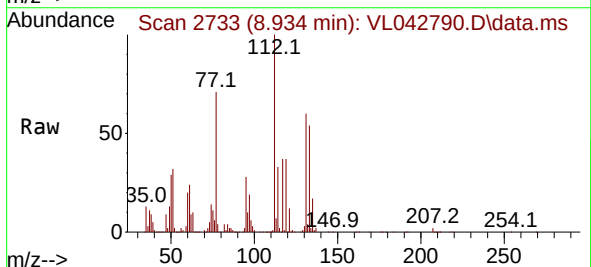
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

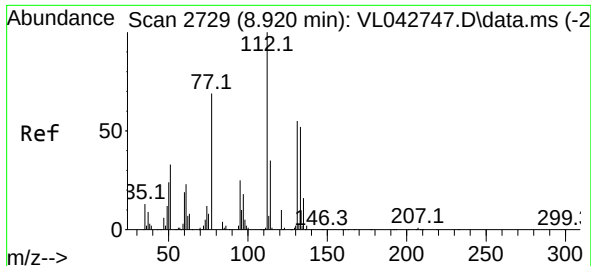
Tgt Ion:117 Resp: 349880
Ion Ratio Lower Upper
117 100
82 68.2 53.3 79.9
119 32.9 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 10.906 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion:131 Resp: 198394
Ion Ratio Lower Upper
131 100
133 95.3 76.8 115.2
119 62.0 49.7 74.5





#57

Chlorobenzene

Concen: 10.386 ppbv

RT: 8.930 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_1

ClientSampleId :

VL0731ABS01

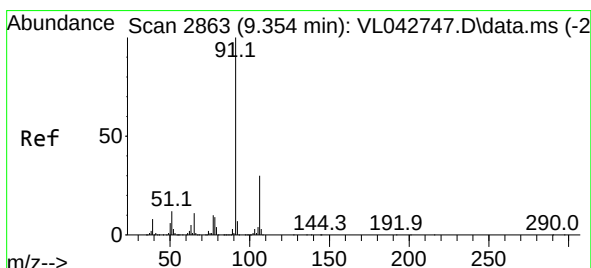
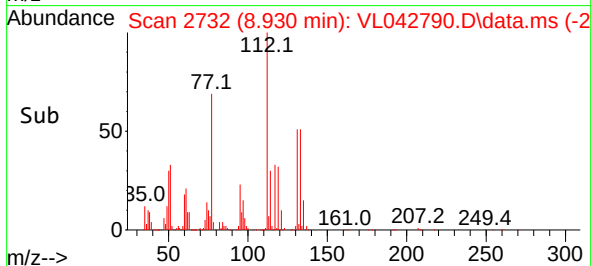
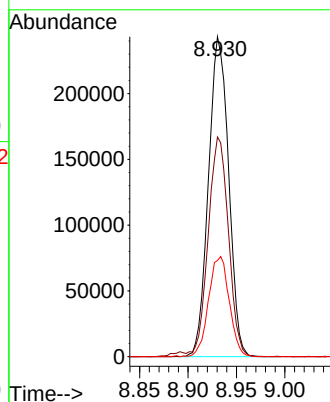
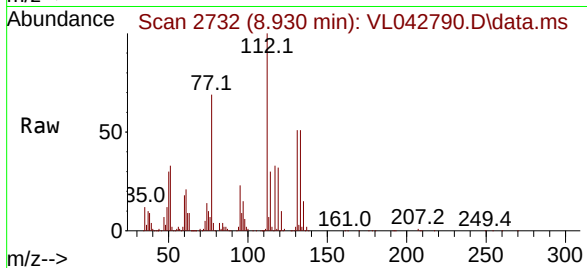
Tgt Ion:112 Resp: 351678

Ion Ratio Lower Upper

112 100

77 68.6 56.4 84.6

114 30.0 31.2 38.2#



#58

Ethyl Benzene

Concen: 11.121 ppbv

RT: 9.364 min Scan# 2866

Delta R.T. 0.010 min

Lab File: VL042790.D

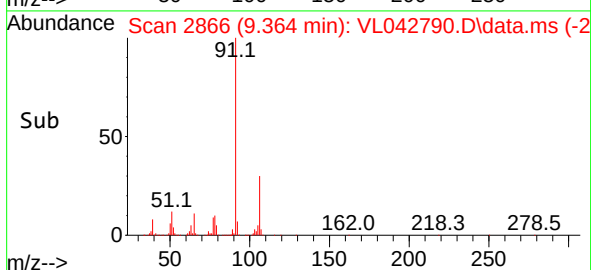
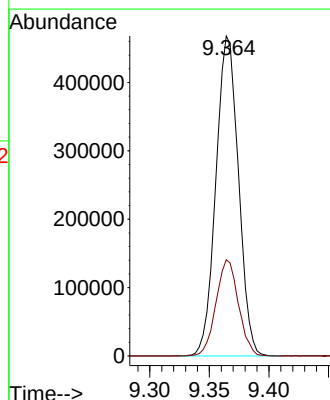
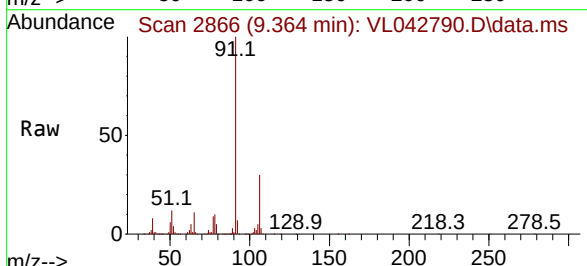
Acq: 31 Jul 2025 10:15

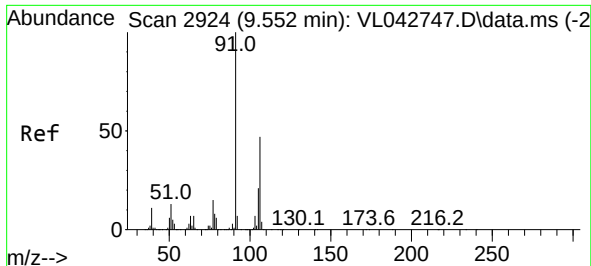
Tgt Ion: 91 Resp: 614495

Ion Ratio Lower Upper

91 100

106 30.1 23.8 35.6





#59

m/p-Xylene

Concen: 10.516 ppbv

RT: 9.562 min Scan# 2924

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_1

ClientSampleId :

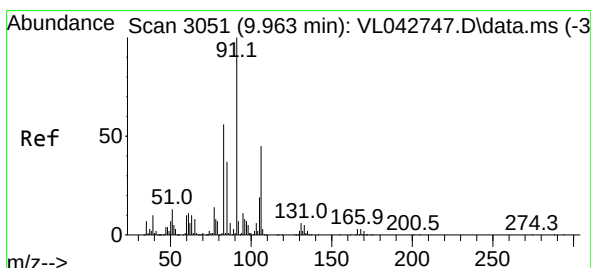
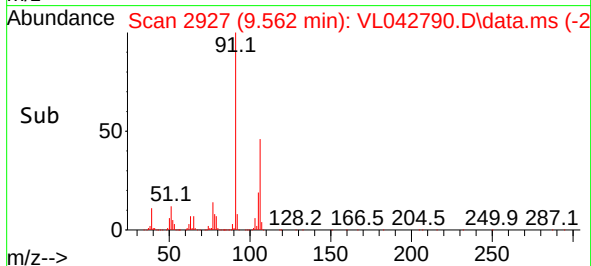
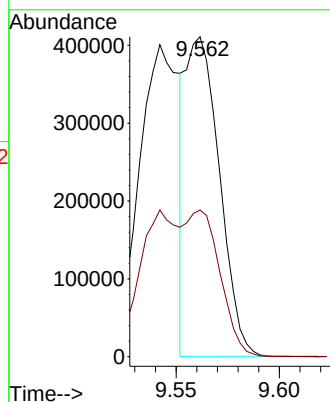
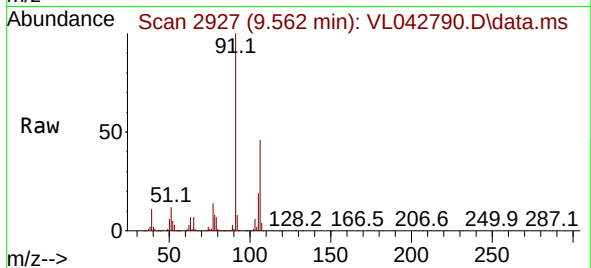
VL0731ABS01

Tgt Ion: 91 Resp: 464380

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#



#60

o-Xylene

Concen: 11.188 ppbv

RT: 9.976 min Scan# 3055

Delta R.T. 0.013 min

Lab File: VL042790.D

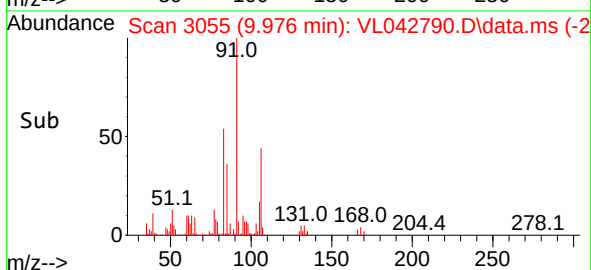
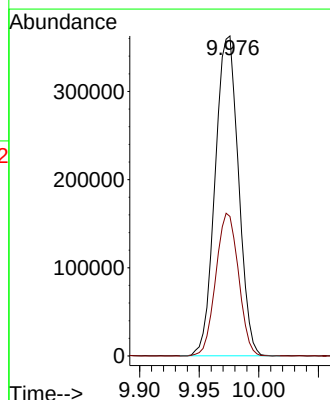
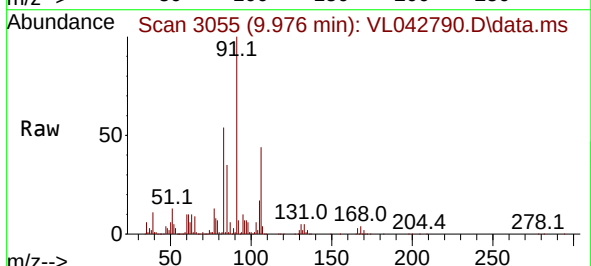
Acq: 31 Jul 2025 10:15

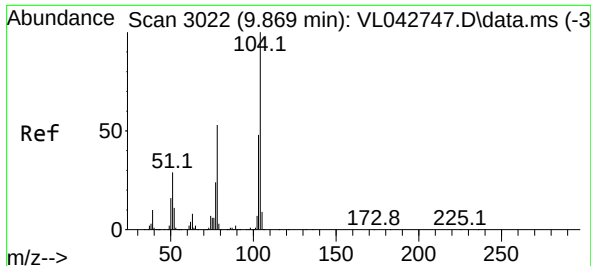
Tgt Ion: 91 Resp: 493686

Ion Ratio Lower Upper

91 100

106 43.5 22.0 66.0





#61

Styrene

Concen: 11.406 ppbv

RT: 9.879 min Scan# 3022

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_1

ClientSampleId :

VL0731ABS01

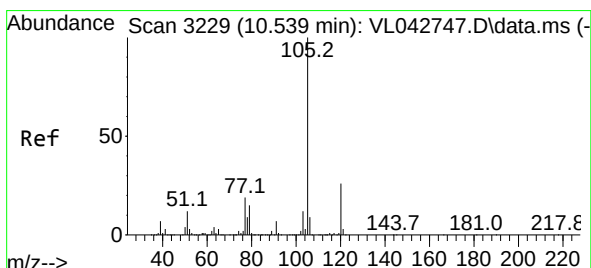
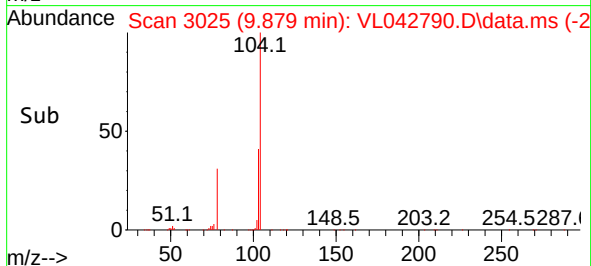
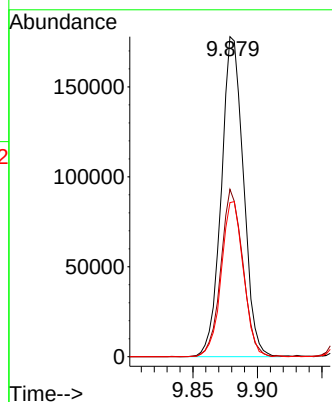
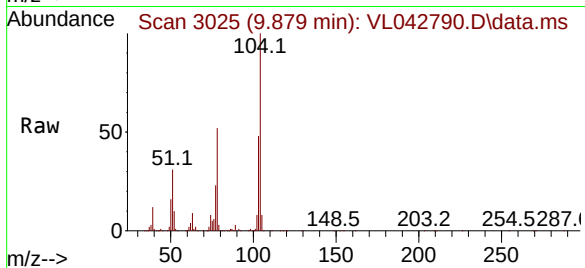
Tgt Ion:104 Resp: 211712

Ion Ratio Lower Upper

104 100

78 51.9 41.5 62.3

103 48.8 37.5 56.3



#62

Isopropylbenzene

Concen: 11.007 ppbv

RT: 10.549 min Scan# 3232

Delta R.T. 0.010 min

Lab File: VL042790.D

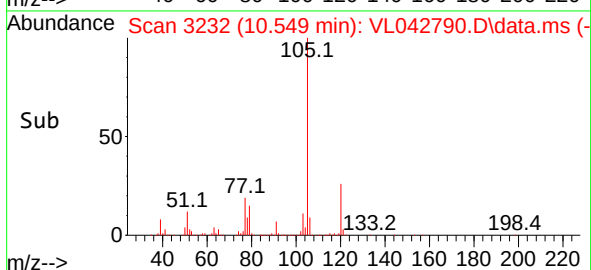
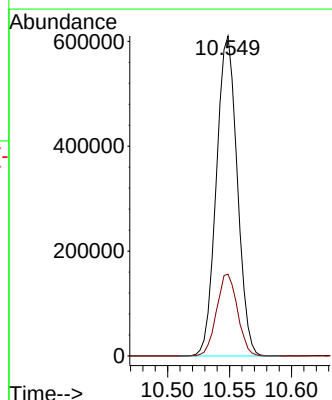
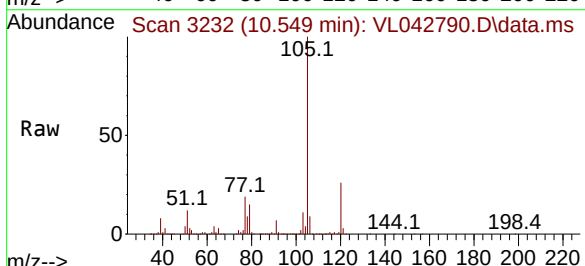
Acq: 31 Jul 2025 10:15

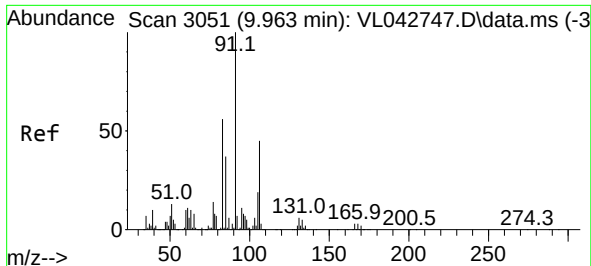
Tgt Ion:105 Resp: 716413

Ion Ratio Lower Upper

105 100

120 25.6 20.5 30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 10.176 ppbv

RT: 9.969 min Scan# 3051

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_1

ClientSampleId :

VL0731ABS01

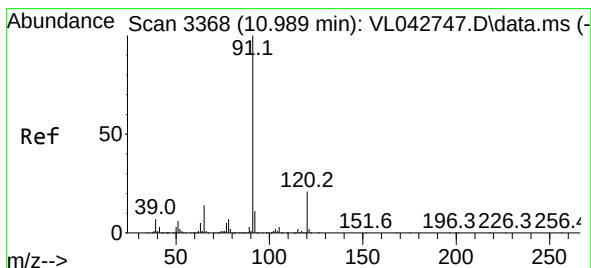
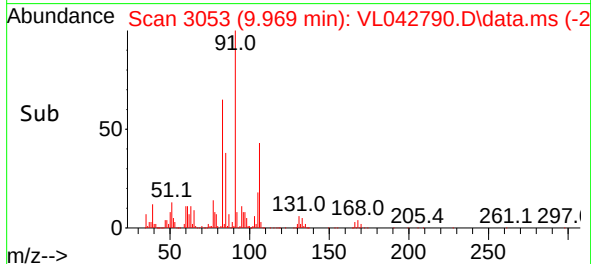
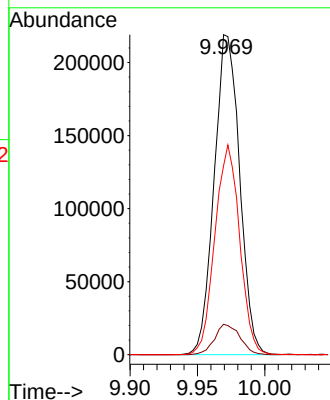
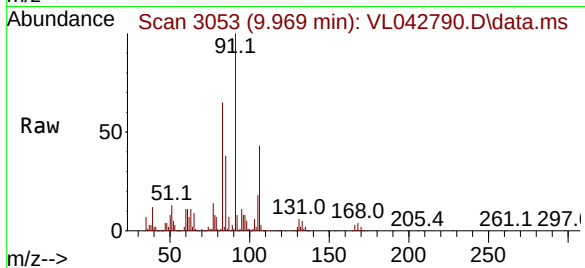
Tgt Ion: 83 Resp: 288264

Ion Ratio Lower Upper

83 100

131 9.5 5.0 15.0

85 63.7 32.6 97.7



#64

n-propylbenzene

Concen: 11.237 ppbv

RT: 10.995 min Scan# 3370

Delta R.T. 0.007 min

Lab File: VL042790.D

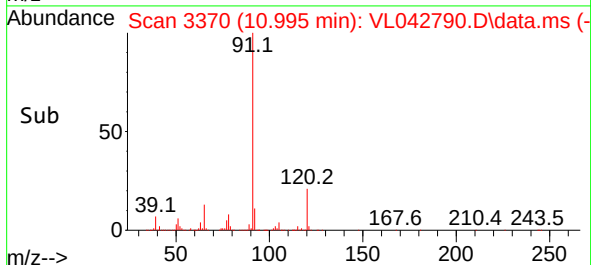
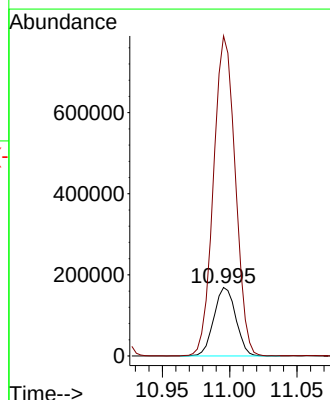
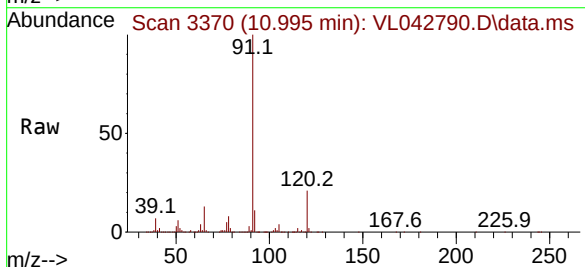
Acq: 31 Jul 2025 10:15

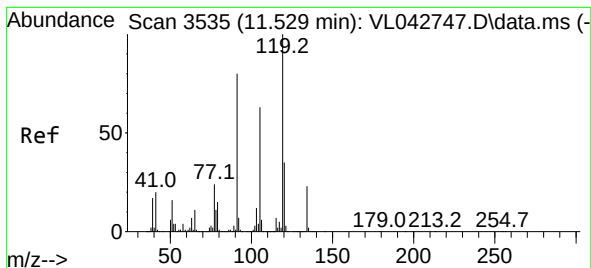
Tgt Ion: 120 Resp: 190663

Ion Ratio Lower Upper

120 100

91 466.1 372.7 559.1





#65

tert-Butylbenzene

Concen: 11.322 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

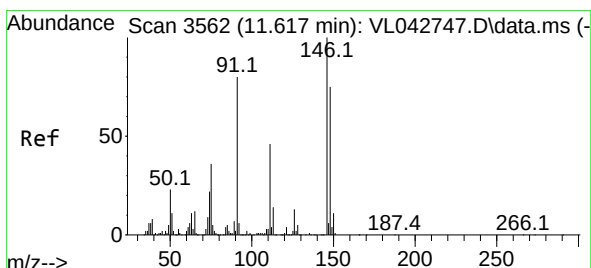
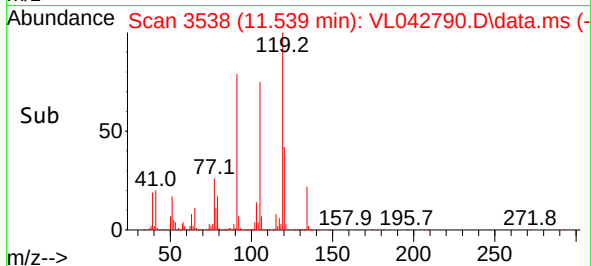
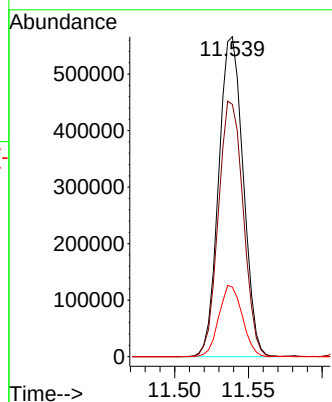
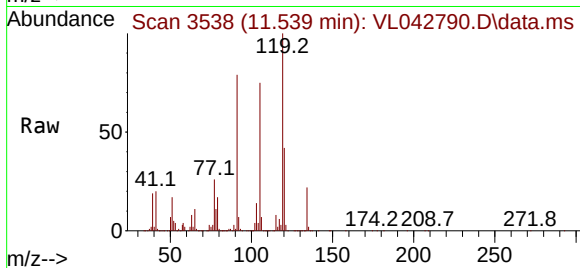
Tgt Ion:119 Resp: 654563

Ion Ratio Lower Upper

119 100

91 81.1 64.0 96.0

134 21.3 17.3 25.9



#66

Benzyl Chloride

Concen: 13.365 ppbv

RT: 11.623 min Scan# 3564

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

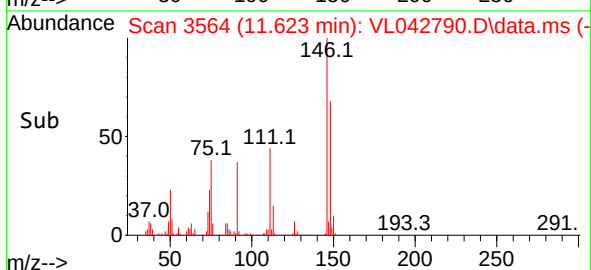
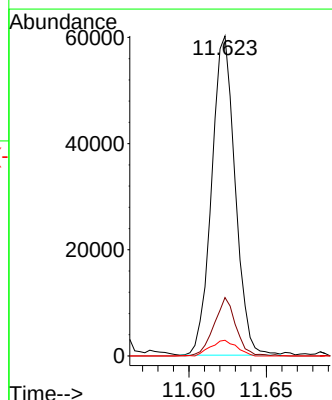
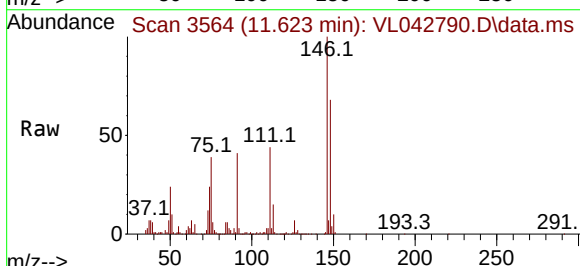
Tgt Ion: 91 Resp: 63429

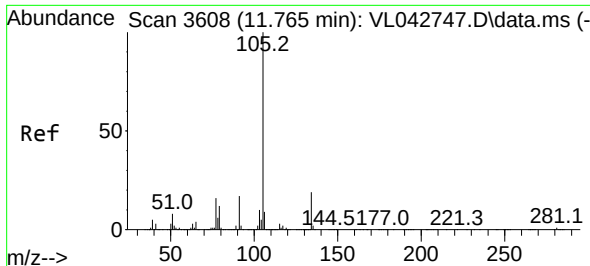
Ion Ratio Lower Upper

91 100

126 17.1 14.4 21.6

128 5.5 5.2 7.8

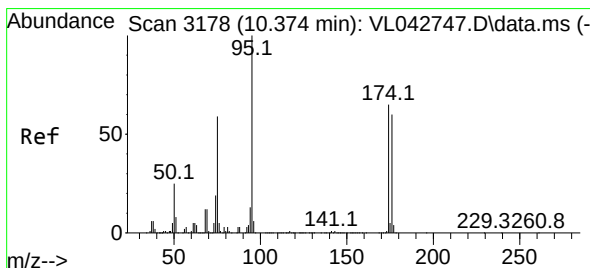
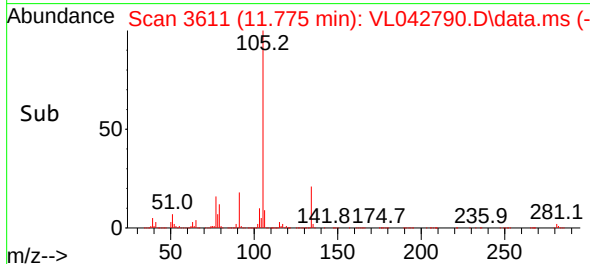
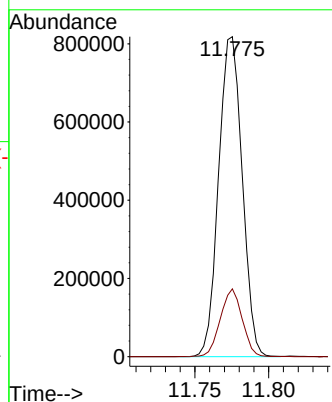
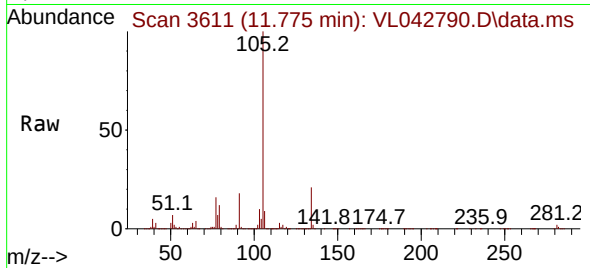




#67
 sec-Butylbenzene
 Concen: 11.065 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.010 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

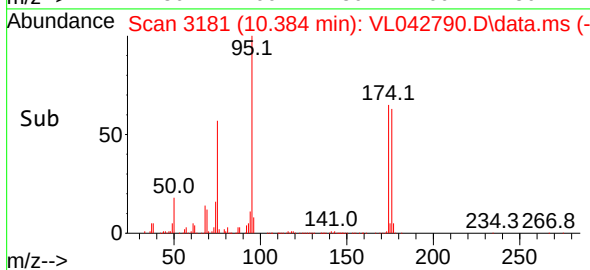
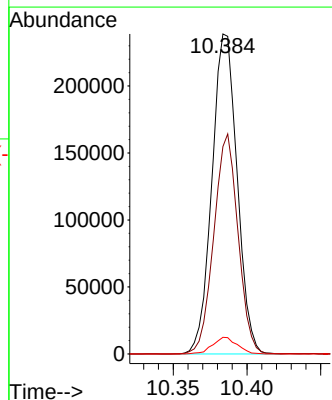
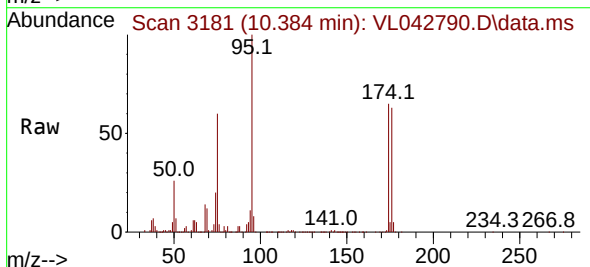
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABS01

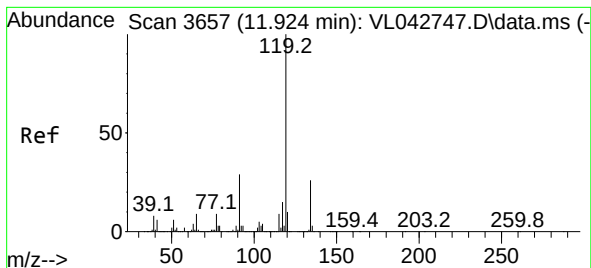
Tgt Ion:105 Resp: 909814
 Ion Ratio Lower Upper
 105 100
 134 19.7 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.254 ppbv
 RT: 10.384 min Scan# 3181
 Delta R.T. 0.010 min
 Lab File: VL042790.D
 Acq: 31 Jul 2025 10:15

Tgt Ion: 95 Resp: 284130
 Ion Ratio Lower Upper
 95 100
 174 66.0 53.8 80.6
 175 5.1 4.0 6.0





#69

p-Isopropyltoluene

Concen: 11.553 ppbv

RT: 11.931 min Scan# 3659

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

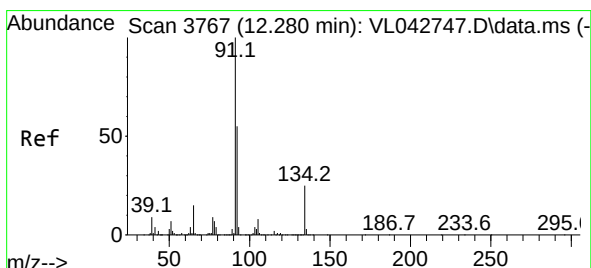
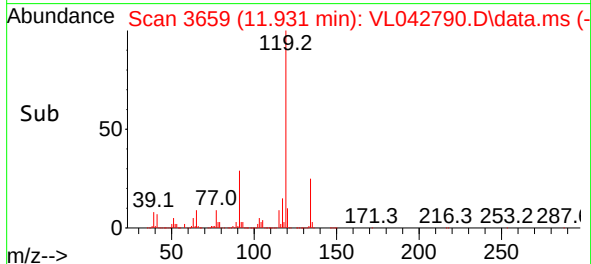
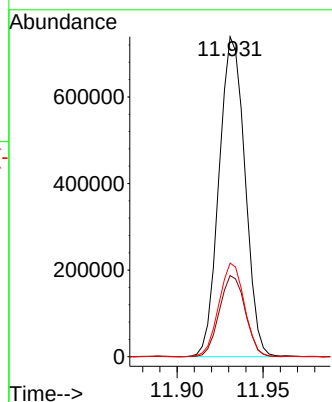
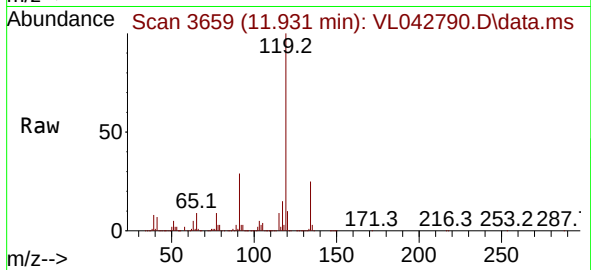
Tgt Ion:119 Resp: 774561

Ion Ratio Lower Upper

119 100

134 25.3 20.6 31.0

91 29.0 23.2 34.8



#70

n-Butylbenzene

Concen: 12.130 ppbv

RT: 12.287 min Scan# 3769

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

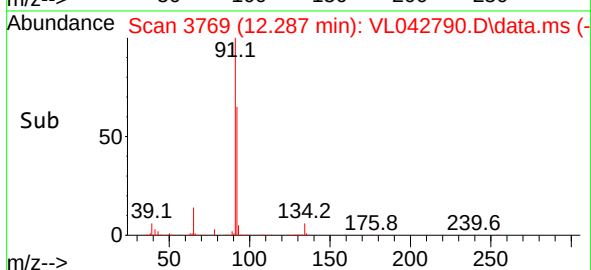
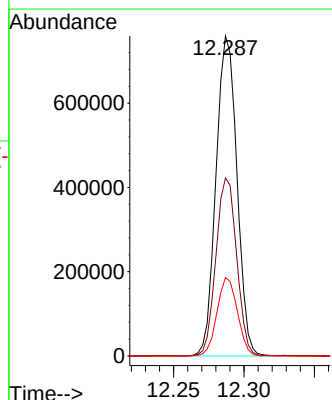
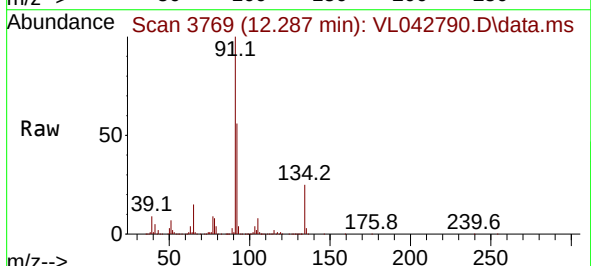
Tgt Ion: 91 Resp: 785569

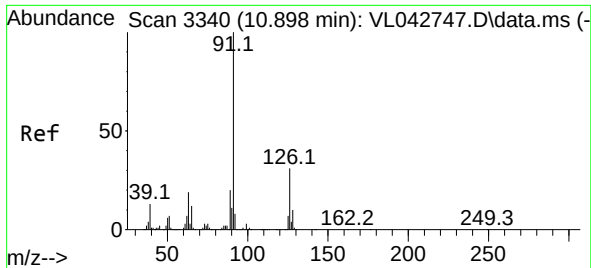
Ion Ratio Lower Upper

91 100

92 55.2 43.4 65.2

134 23.9 19.6 29.4

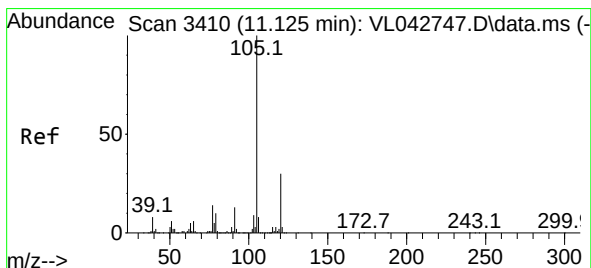
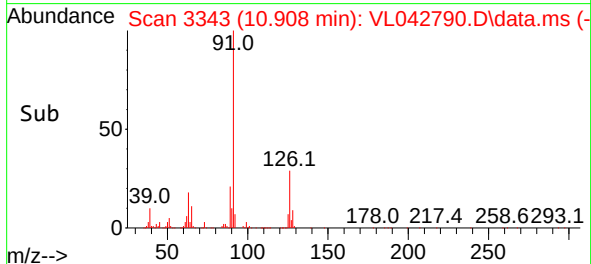
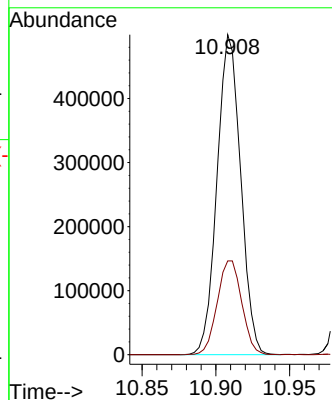
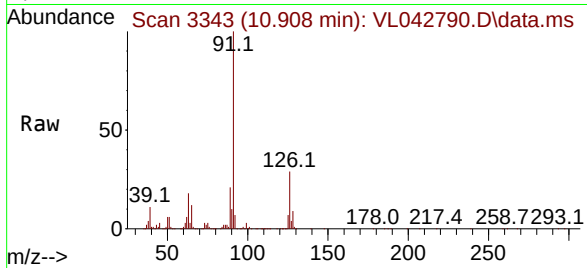




#71
2-Chlorotoluene
Concen: 11.153 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

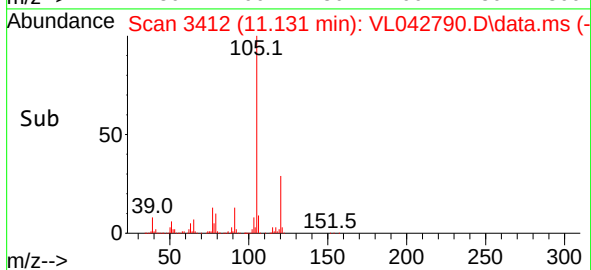
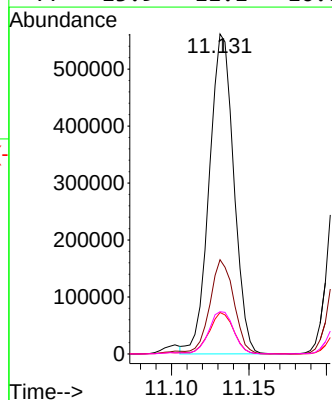
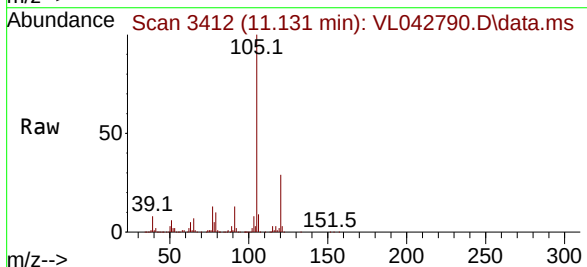
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABS01

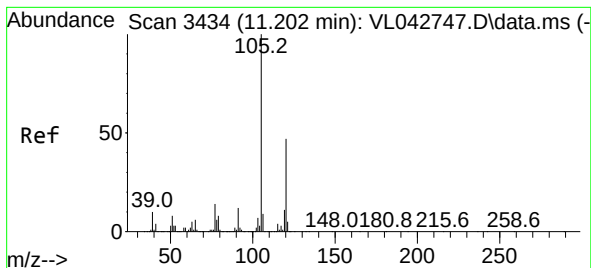
Tgt Ion: 91 Resp: 556610
Ion Ratio Lower Upper
91 100
126 30.4 12.0 48.2



#72
4-Ethyltoluene
Concen: 11.729 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion: 105 Resp: 618091
Ion Ratio Lower Upper
105 100
120 29.5 24.4 36.6
91 13.3 10.6 15.8
77 13.9 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 11.871 ppbv

RT: 11.212 min Scan# 3434

Delta R.T. 0.010 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

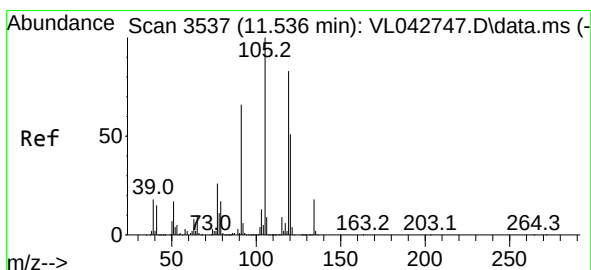
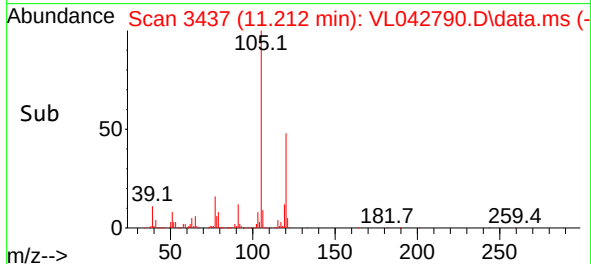
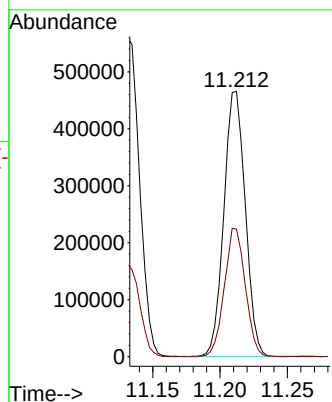
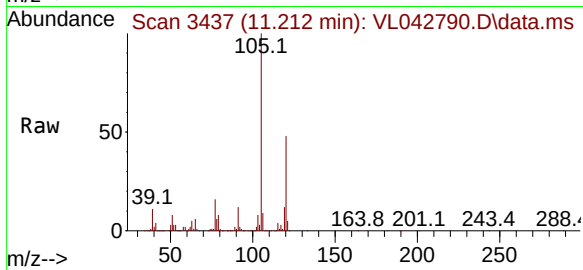
VL0731ABS01

Tgt Ion:105 Resp: 515043

Ion Ratio Lower Upper

105 100

120 48.1 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 12.057 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Tgt Ion:105 Resp: 570715

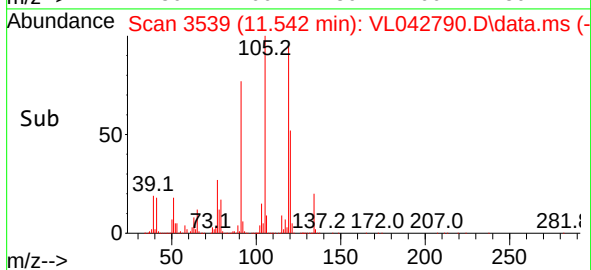
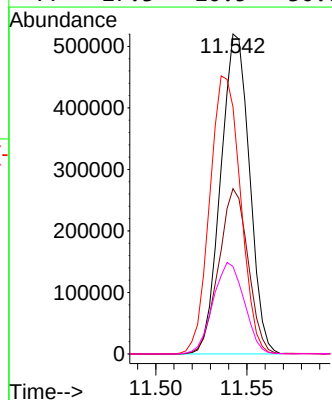
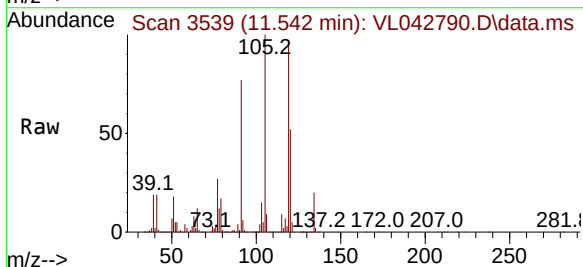
Ion Ratio Lower Upper

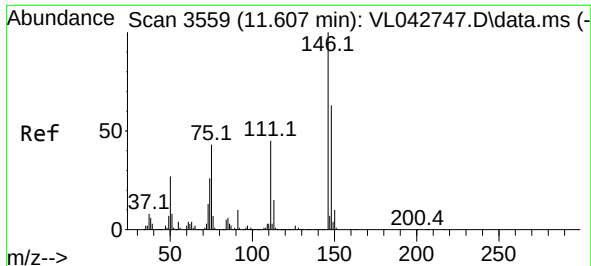
105 100

120 51.6 40.8 61.2

91 77.0 53.0 79.4

77 27.3 20.5 30.7

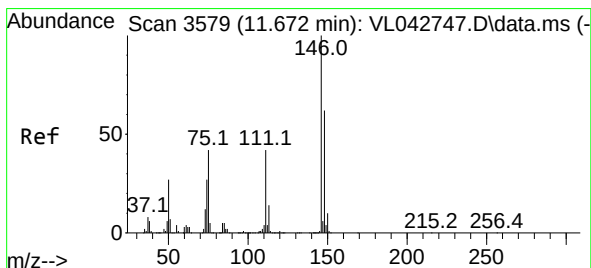
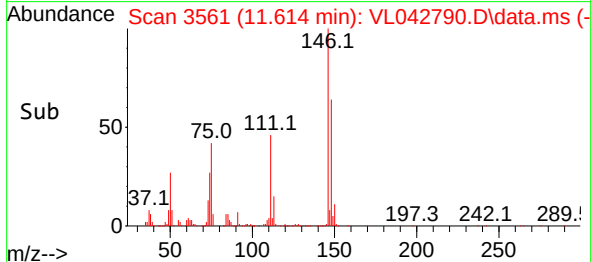
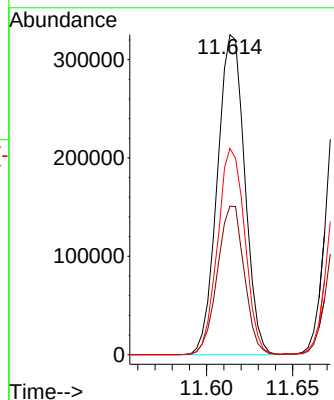
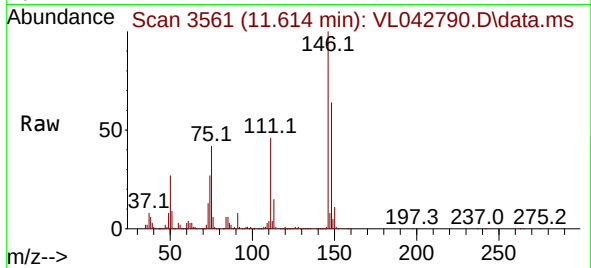




#75
1,3-Dichlorobenzene
Concen: 10.852 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

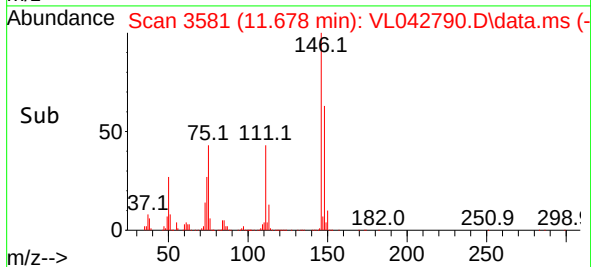
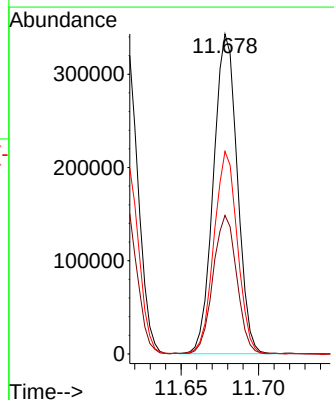
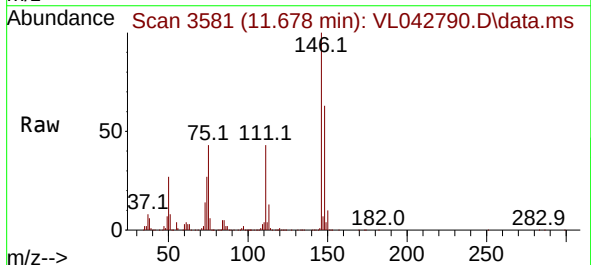
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABS01

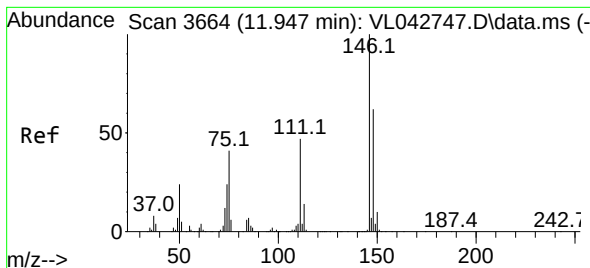
Tgt Ion:146 Resp: 360095
Ion Ratio Lower Upper
146 100
111 45.7 22.7 68.0
148 64.0 31.9 95.5



#76
1,4-Dichlorobenzene
Concen: 11.273 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.007 min
Lab File: VL042790.D
Acq: 31 Jul 2025 10:15

Tgt Ion:146 Resp: 366048
Ion Ratio Lower Upper
146 100
111 43.3 21.4 64.2
148 62.6 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 10.770 ppbv

RT: 11.953 min Scan# 3

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

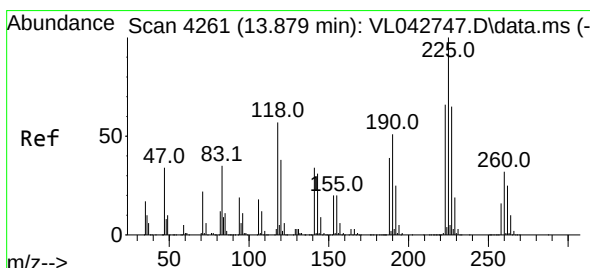
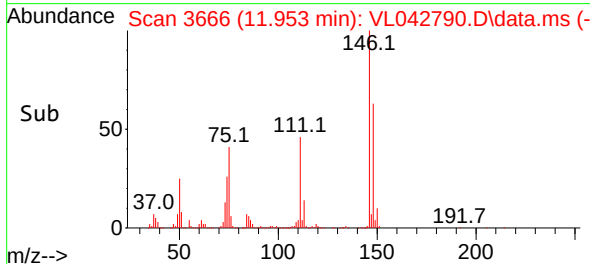
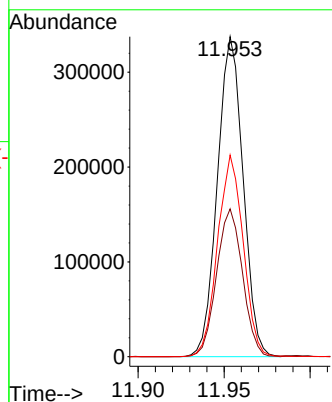
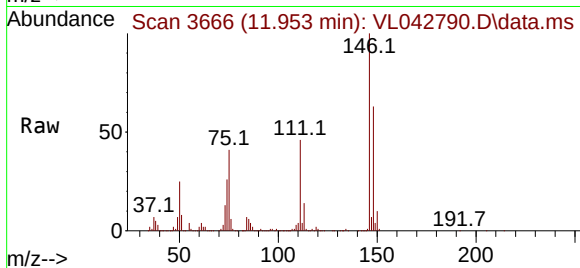
Tgt Ion:146 Resp: 351242

Ion Ratio Lower Upper

146 100

111 46.8 23.7 71.1

148 62.8 32.6 97.7



#78

Hexachloro-1,3-Butadiene

Concen: 9.538 ppbv

RT: 13.886 min Scan# 4263

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

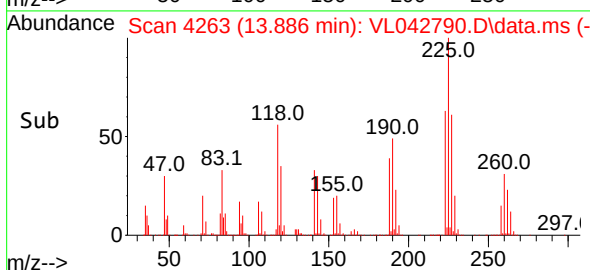
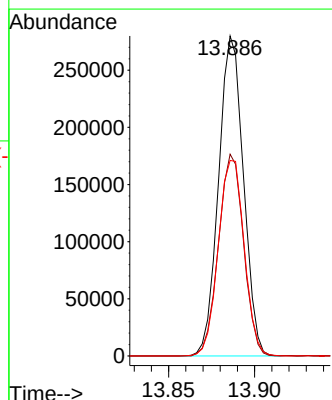
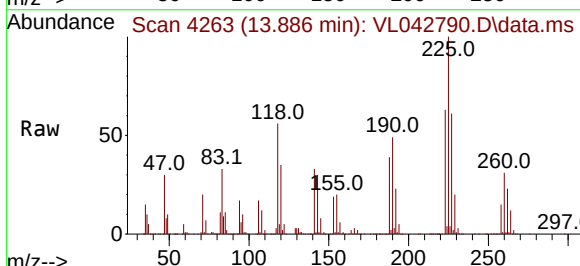
Tgt Ion:225 Resp: 281564

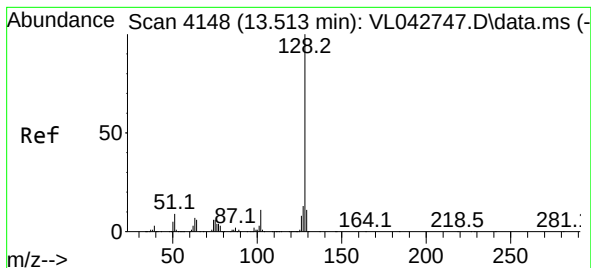
Ion Ratio Lower Upper

225 100

223 63.5 50.7 76.1

227 63.9 50.5 75.7





#79

Naphthalene

Concen: 10.494 ppbv

RT: 13.520 min Scan# 4148

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01

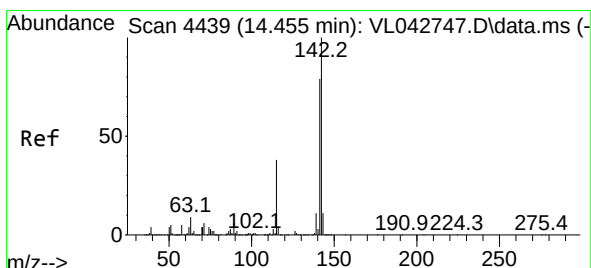
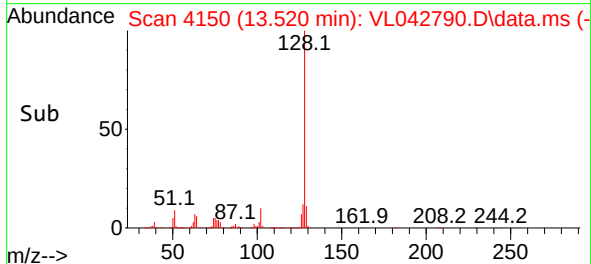
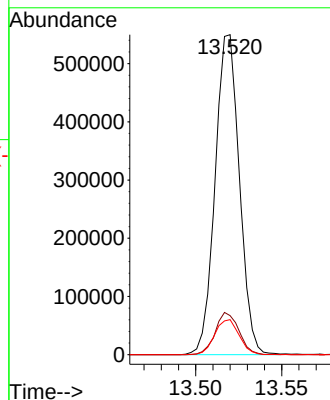
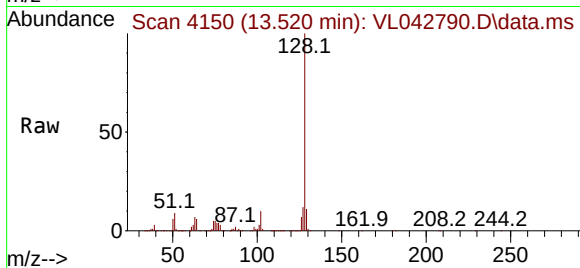
Tgt Ion:128 Resp: 540121

Ion Ratio Lower Upper

128 100

127 12.2 10.5 15.7

129 10.9 8.6 13.0



#80

Naphthalene,2-methyl-

Concen: 8.786 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.007 min

Lab File: VL042790.D

Acq: 31 Jul 2025 10:15

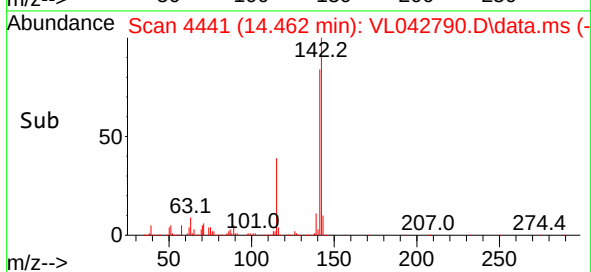
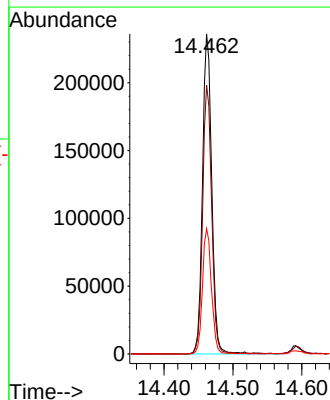
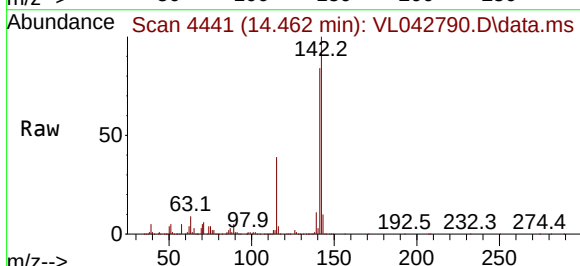
Tgt Ion:142 Resp: 221690

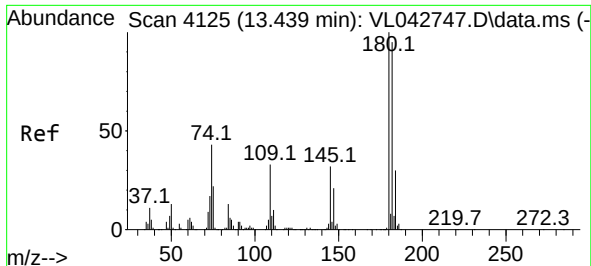
Ion Ratio Lower Upper

142 100

141 82.4 65.8 98.8

115 38.3 31.2 46.8





#81

1,2,4-Trichlorobenzene

Concen: 10.565 ppbv

RT: 13.446 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042790.D

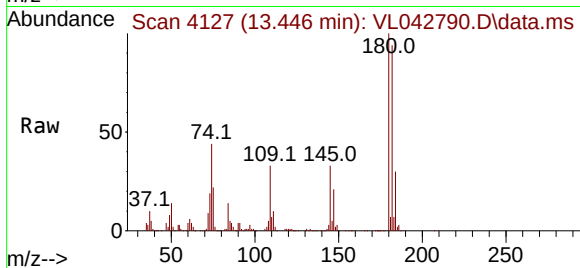
Acq: 31 Jul 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABS01



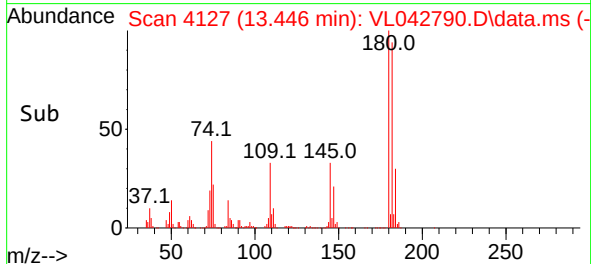
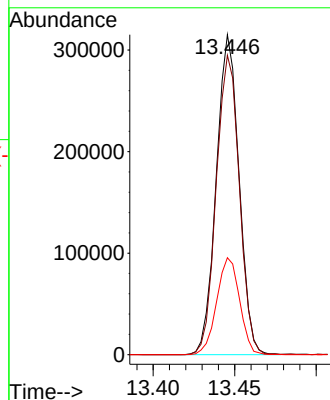
Tgt Ion:180 Resp: 305698

Ion Ratio Lower Upper

180 100

182 95.1 76.2 114.2

184 30.5 24.8 37.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042794.D
 Acq On : 31 Jul 2025 13:55
 Operator : SY/MD
 Sample : VL0731ABSD01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01

Quant Time: Aug 01 01:15:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	143361	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	385270	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	347681	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	285966	10.386	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.900%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	183911	9.703	ppbv	98
3) Chlorodifluoromethane	1.476	51	250299	10.137	ppbv	99
4) Chloromethane	1.534	50	70831	9.237	ppbv	97
5) Vinyl Chloride	1.580	62	63417	8.370	ppbv	98
6) Bromomethane	1.670	94	26564	9.069	ppbv	92
7) Chloroethane	1.706	64	25813	8.818	ppbv	96
8) Dichlorotetrafluoroethane	1.554	85	145635	9.343	ppbv	99
9) Propene	1.482	41	67742	7.549	ppbv	90
10) Heptane	4.988	43	256581	10.604	ppbv	98
11) Trichlorofluoromethane	1.877	101	175951	9.005	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	139531	9.398	ppbv	99
13) Ethanol	1.722	45	6169	8.289	ppbv	96
14) Bromoethene	1.783	108	47516	9.039	ppbv	97
15) Acetone	1.835	43	145544	7.352	ppbv	99
16) 1,3-Butadiene	1.609	39	75425	8.933	ppbv	100
17) tert-Butyl alcohol	2.042	59	157530	8.823	ppbv	99
18) 1,1-Dichloroethene	2.036	96	59735	8.904	ppbv	92
19) Isopropyl Alcohol	1.887	45	89890	8.545	ppbv	94
20) Methylene Chloride	2.062	84	53184	8.525	ppbv	92
21) Allyl Chloride	2.097	41	113975	9.342	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	66660	9.237	ppbv	90
23) Vinyl Acetate	2.463	43	267217	11.134	ppbv	99
24) 1,1-Dichloroethane	2.411	63	136610	9.222	ppbv	99
25) Ethyl Acetate	2.839	43	450028	10.270	ppbv	99
26) Hexane	2.829	57	193724	10.078	ppbv	98
27) Carbon Disulfide	2.152	76	164945	10.023	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	81968	9.026	ppbv	99
29) Chloroform	2.852	83	302251	10.176	ppbv	100
30) Cyclohexane	3.865	84	158206	9.705	ppbv	93
31) cis-1,2-Dichloroethene	2.722	61	189601	9.599	ppbv	95
32) 1,1,1-Trichloroethane	3.373	97	297175	9.605	ppbv	98
34) 2-Butanone	2.560	43	293015	10.737	ppbv	100
35) Carbon Tetrachloride	3.768	117	315193	11.014	ppbv	97
36) Benzene	3.661	78	389839	10.677	ppbv	99
37) 1,2-Dichloroethane	3.224	62	236593	10.756	ppbv	100
38) Trichloroethene	4.557	130	174966	9.974	ppbv	97
39) 1,2-Dichloropropane	4.318	63	144769	10.741	ppbv	99
40) 1,4-Dioxane	4.590	88	61985	9.866	ppbv #	97
41) Tetrahydrofuran	3.059	42	157948	11.374	ppbv	97
42) Bromodichloromethane	4.496	83	324724	11.336	ppbv	98
43) Methyl Methacrylate	4.887	69	147145	11.338	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	673176	11.311	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	159751	10.976	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042794.D
 Acq On : 31 Jul 2025 13:55
 Operator : SY/MD
 Sample : VL0731ABSD01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

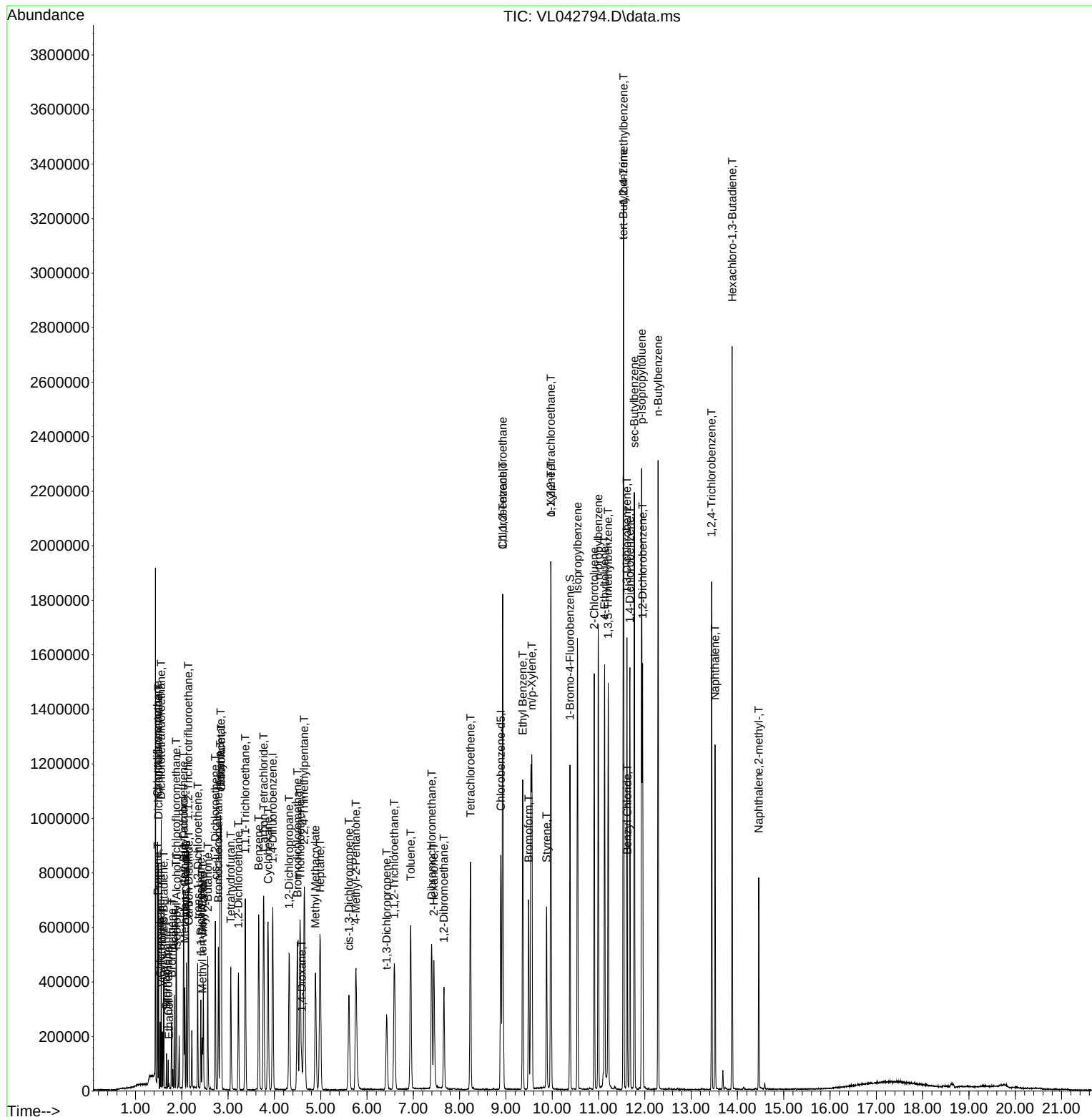
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01

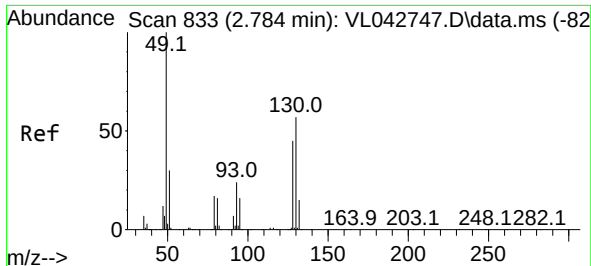
Quant Time: Aug 01 01:15:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	205816	11.160	ppbv	97
47) 1,1,2-Trichloroethane	6.590	97	156216	10.873	ppbv	98
48) Dibromochloromethane	7.396	129	262522	11.510	ppbv	99
49) Bromoform	9.493	173	234893	11.811	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	403132	11.467	ppbv	98
51) 2-Hexanone	7.441	43	322822	12.152	ppbv #	98
52) Tetrachloroethene	8.234	164	144051	9.518	ppbv	94
53) Toluene	6.943	91	436601	11.135	ppbv	99
54) 1,2-Dibromoethane	7.661	107	226779	11.172	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.930	131	199484	11.035	ppbv	99
57) Chlorobenzene	8.930	112	353946	10.519	ppbv	97
58) Ethyl Benzene	9.364	91	615615	11.212	ppbv	100
59) m/p-Xylene	9.558	91	510911	11.643	ppbv #	30
60) o-Xylene	9.969	91	509306	11.615	ppbv	99
61) Styrene	9.878	104	217878	11.813	ppbv	99
62) Isopropylbenzene	10.545	105	731077	11.304	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	290577	10.323	ppbv	99
64) n-propylbenzene	10.995	120	196210	11.637	ppbv	100
65) tert-Butylbenzene	11.535	119	656497	11.427	ppbv	99
66) Benzyl Chloride	11.623	91	64301	13.634	ppbv	99
67) sec-Butylbenzene	11.772	105	929357	11.374	ppbv	100
69) p-Isopropyltoluene	11.930	119	783925	11.766	ppbv	100
70) n-Butylbenzene	12.286	91	802758	12.474	ppbv	99
71) 2-Chlorotoluene	10.908	91	560672	11.306	ppbv	99
72) 4-Ethyltoluene	11.131	105	622768	11.893	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	522269	12.114	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	576097	12.248	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	370097	11.224	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	365448	11.326	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	357874	11.043	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	289316	9.863	ppbv	99
79) Naphthalene	13.516	128	552592	10.791	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	210490	8.445	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	310917	10.803	ppbv	99

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

Quant Time: Aug 01 01:15:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

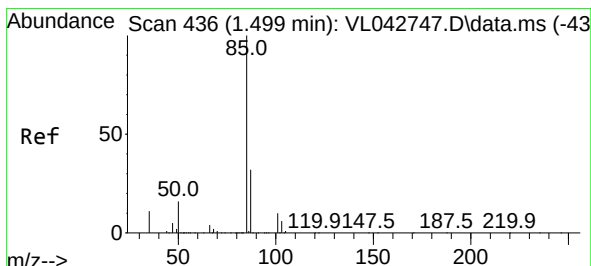
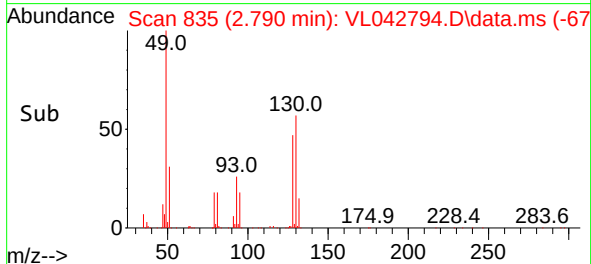
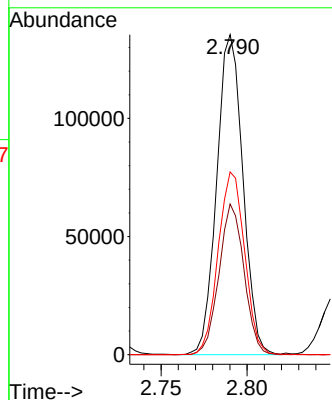
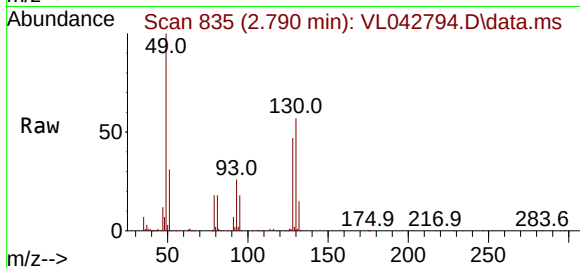




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

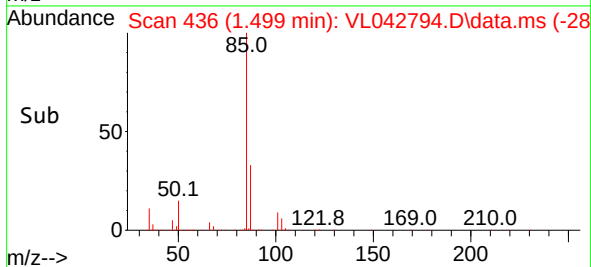
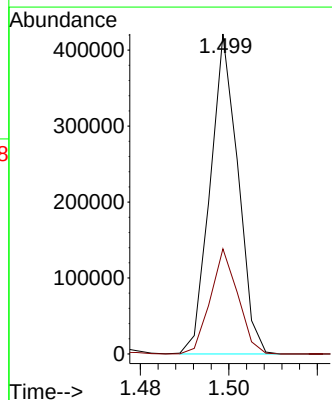
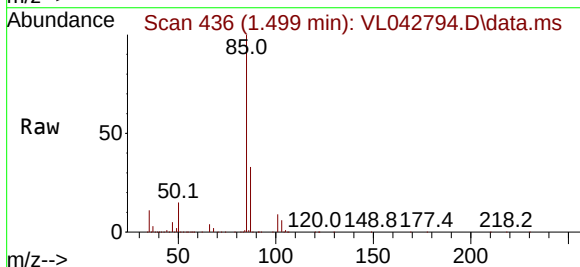
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

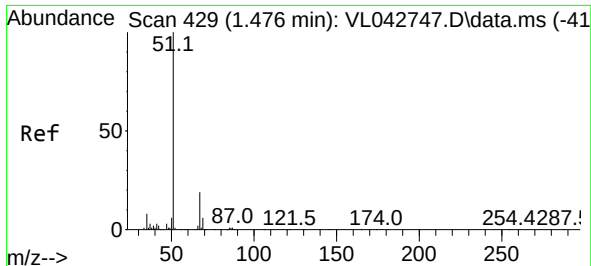
Tgt Ion: 49 Resp: 143361
Ion Ratio Lower Upper
49 100
128 45.1 23.6 71.0
130 57.8 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 9.703 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 85 Resp: 183911
Ion Ratio Lower Upper
85 100
87 32.8 25.4 38.2

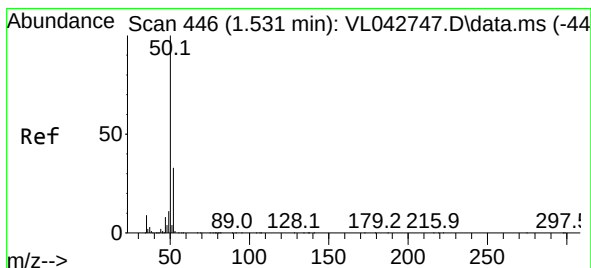
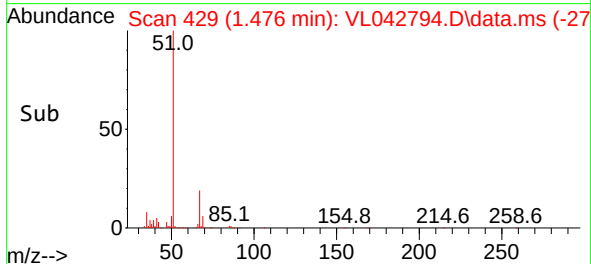
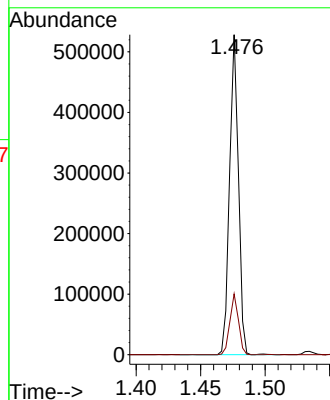
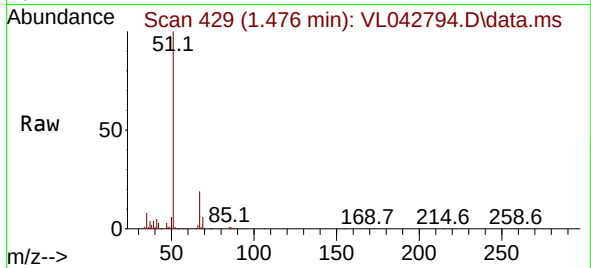




#3
Chlorodifluoromethane
Concen: 10.137 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

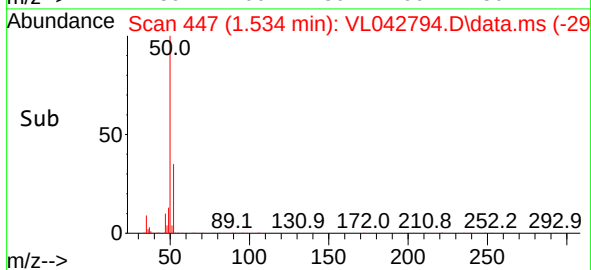
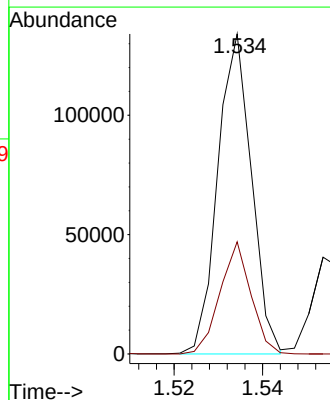
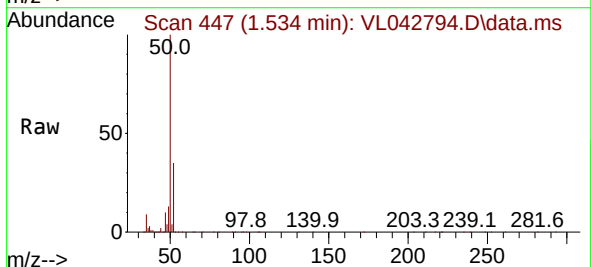
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

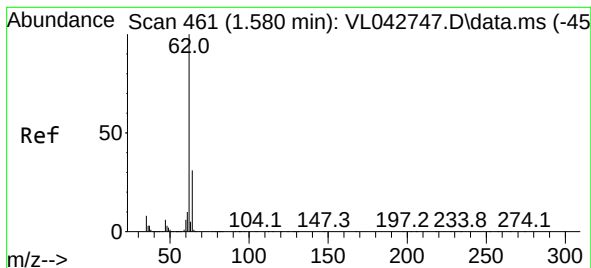
Tgt Ion: 51 Resp: 250299
Ion Ratio Lower Upper
51 100
67 18.5 15.0 22.6



#4
Chloromethane
Concen: 9.237 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 50 Resp: 70831
Ion Ratio Lower Upper
50 100
52 35.1 26.6 40.0





#5

Vinyl Chloride

Concen: 8.370 ppbv

RT: 1.580 min Scan# 4

Delta R.T. -0.000 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_1

ClientSampleId :

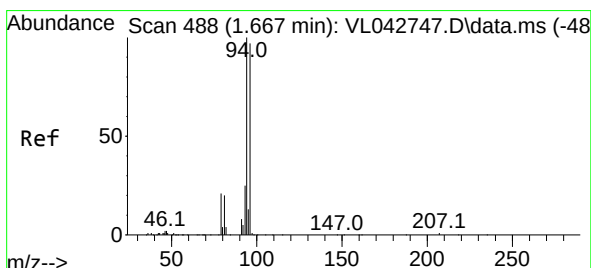
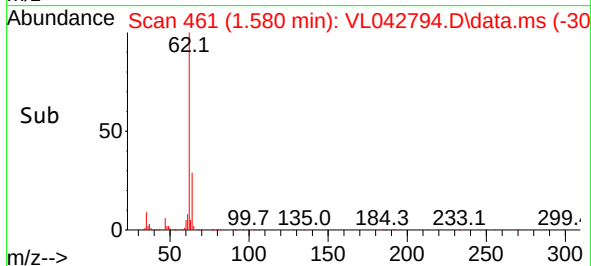
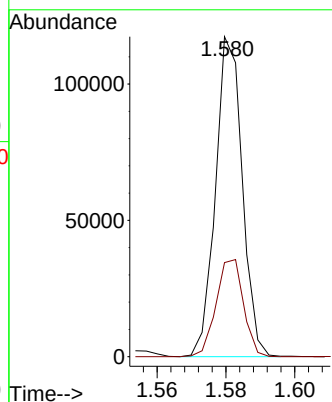
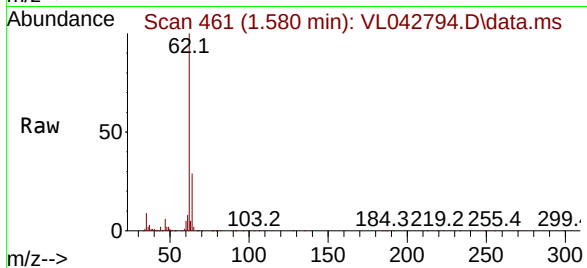
VL0731ABSD01

Tgt Ion: 62 Resp: 63417

Ion Ratio Lower Upper

62 100

64 29.4 24.5 36.7



#6

Bromomethane

Concen: 9.069 ppbv

RT: 1.670 min Scan# 489

Delta R.T. 0.003 min

Lab File: VL042794.D

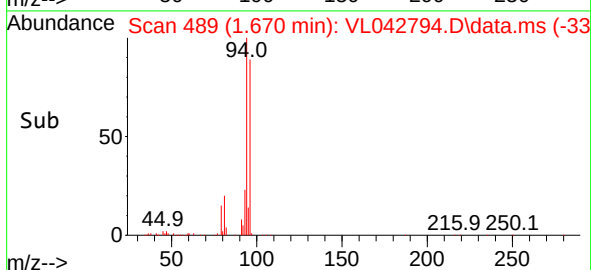
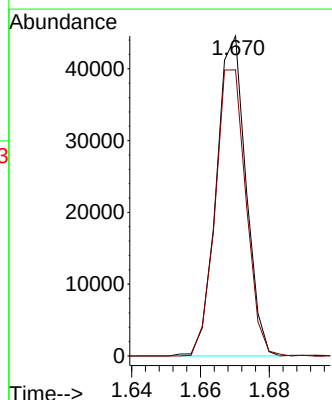
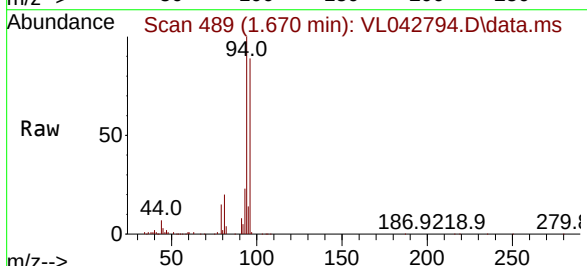
Acq: 31 Jul 2025 13:55

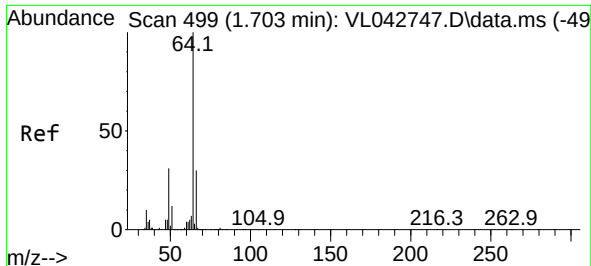
Tgt Ion: 94 Resp: 26564

Ion Ratio Lower Upper

94 100

96 89.4 77.6 116.4

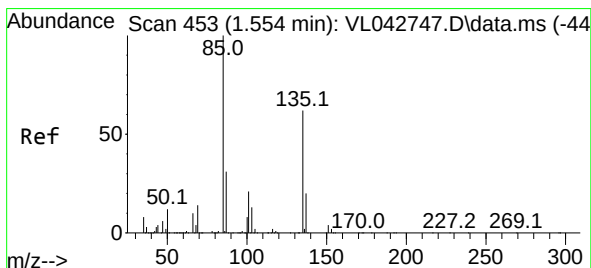
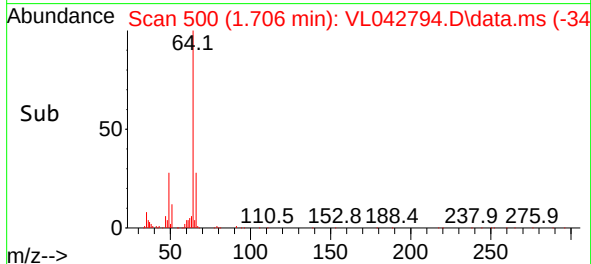
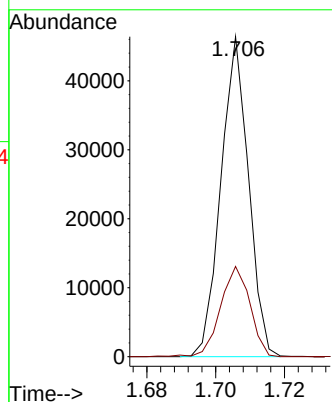
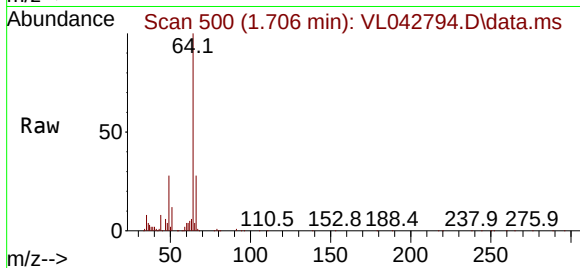




#7
Chloroethane
Concen: 8.818 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

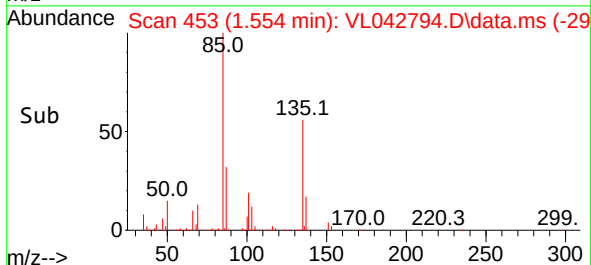
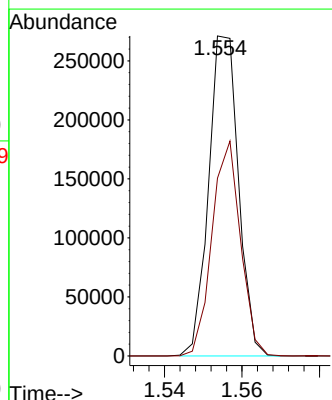
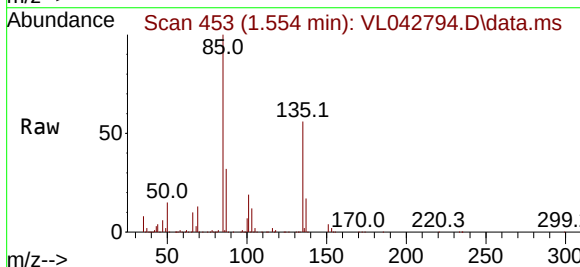
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

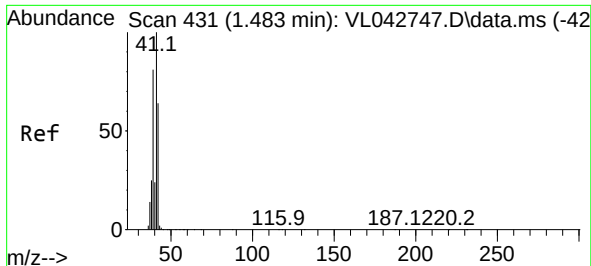
Tgt Ion: 64 Resp: 25813
Ion Ratio Lower Upper
64 100
66 28.2 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 9.343 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 85 Resp: 145635
Ion Ratio Lower Upper
85 100
135 64.1 50.6 76.0





#9

Propene

Concen: 7.549 ppbv

RT: 1.482 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

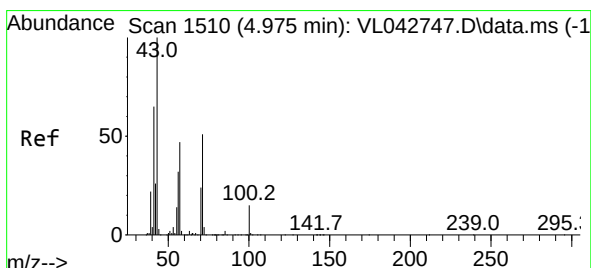
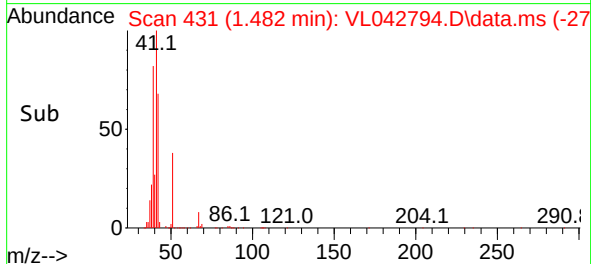
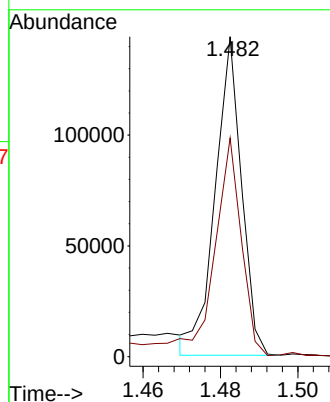
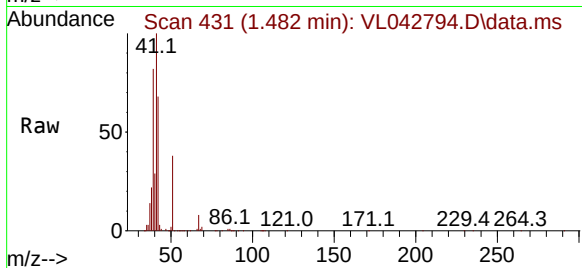
VL0731ABSD01

Tgt Ion: 41 Resp: 67742

Ion Ratio Lower Upper

41 100

42 74.8 53.2 79.8



#10

Heptane

Concen: 10.604 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.013 min

Lab File: VL042794.D

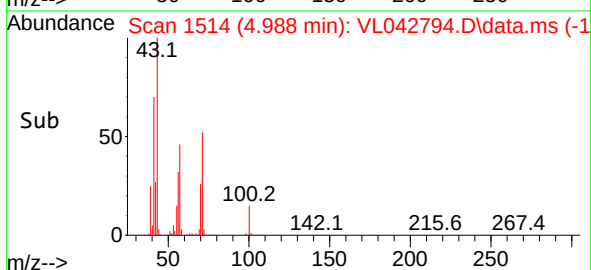
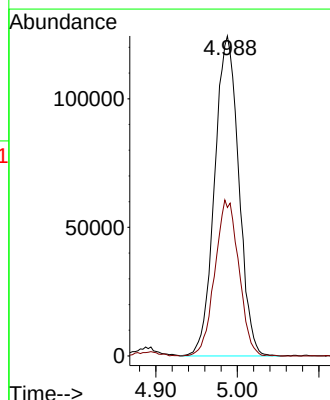
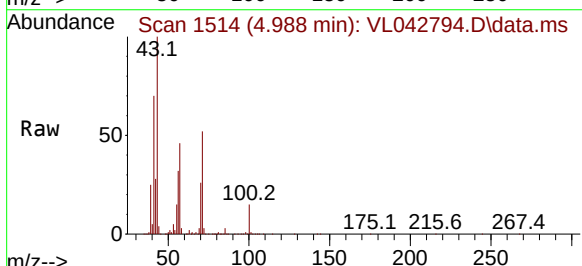
Acq: 31 Jul 2025 13:55

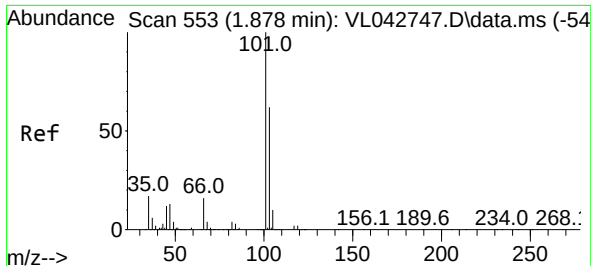
Tgt Ion: 43 Resp: 256581

Ion Ratio Lower Upper

43 100

57 48.4 39.9 59.9

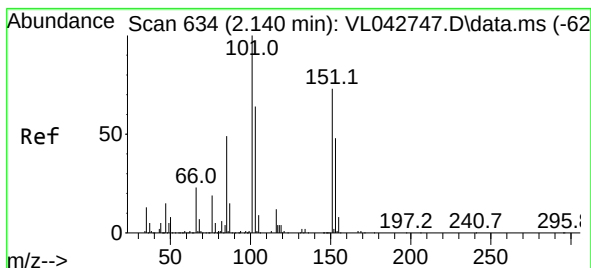
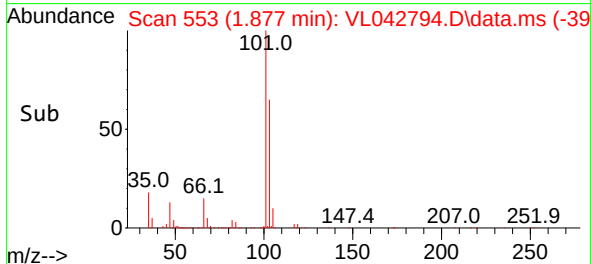
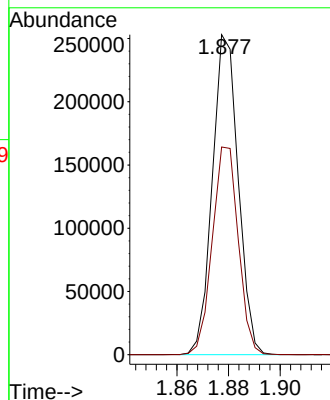
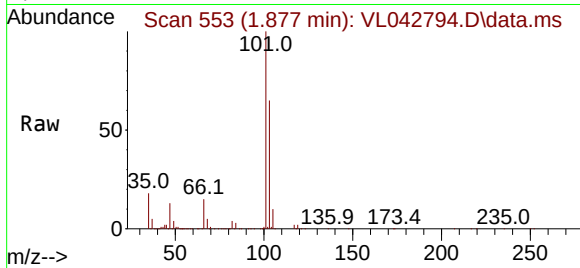




#11
 Trichlorofluoromethane
 Concen: 9.005 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

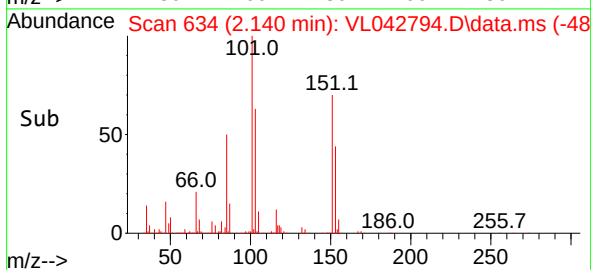
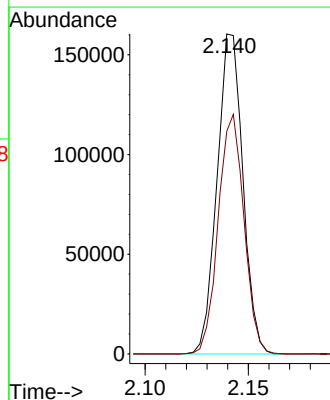
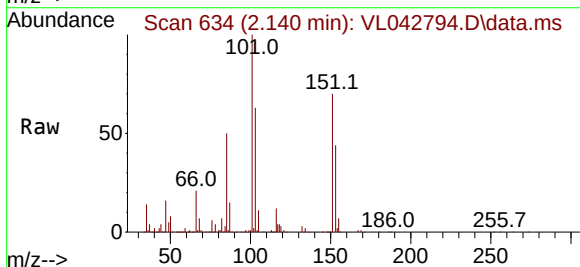
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01

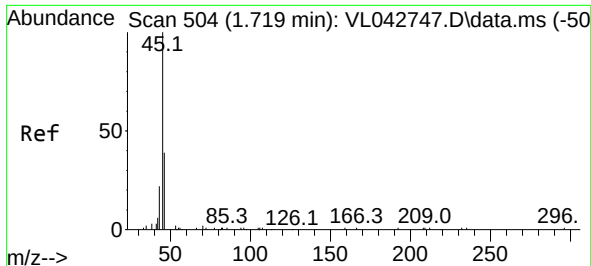
Tgt Ion:101 Resp: 175951
 Ion Ratio Lower Upper
 101 100
 103 64.9 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.398 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. -0.000 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion:101 Resp: 139531
 Ion Ratio Lower Upper
 101 100
 151 74.5 60.5 90.7





#13

Ethanol

Concen: 8.289 ppbv

RT: 1.722 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

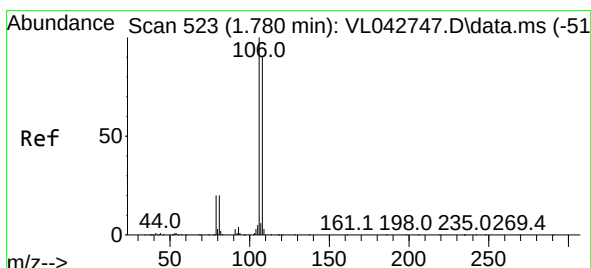
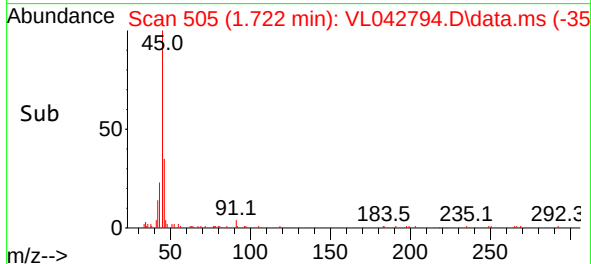
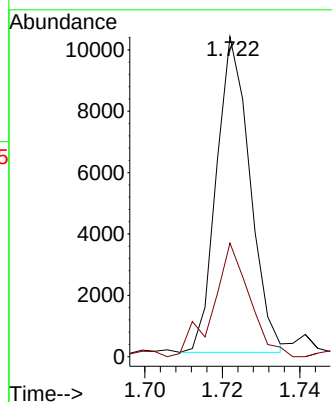
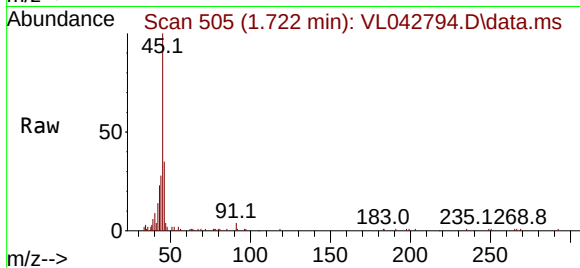
VL0731ABSD01

Tgt Ion: 45 Resp: 6169

Ion Ratio Lower Upper

45 100

46 42.1 17.8 71.4



#14

Bromoethene

Concen: 9.039 ppbv

RT: 1.783 min Scan# 524

Delta R.T. 0.003 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

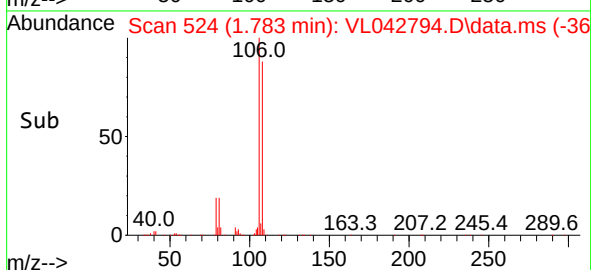
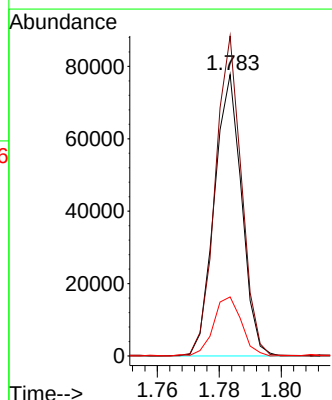
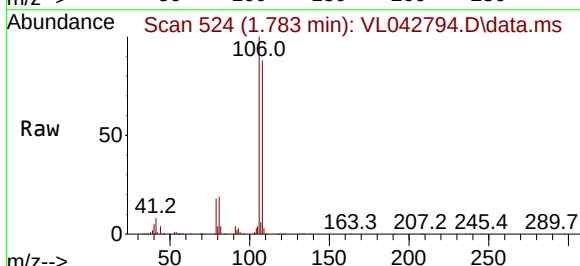
Tgt Ion: 108 Resp: 47516

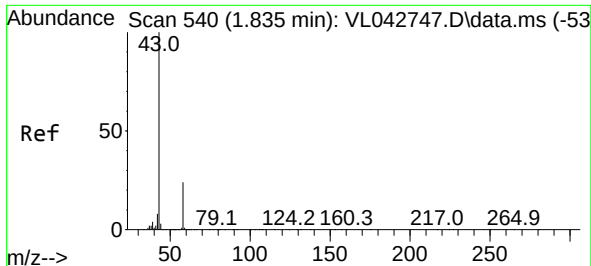
Ion Ratio Lower Upper

108 100

106 109.8 84.7 127.1

79 22.7 17.4 26.2

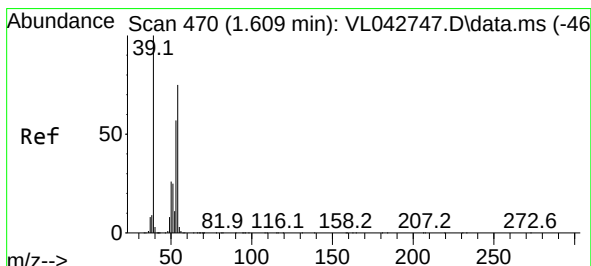
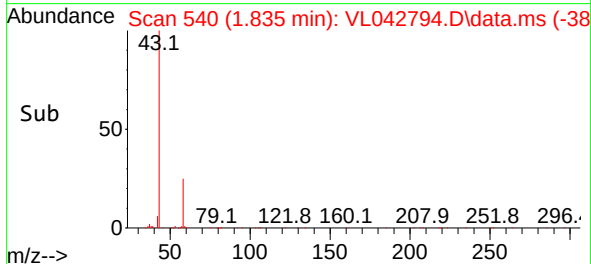
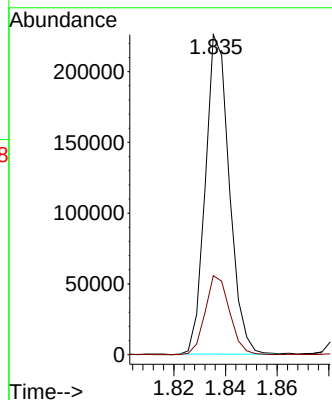
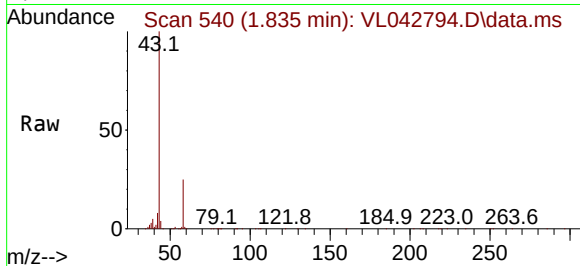




#15
Acetone
Concen: 7.352 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

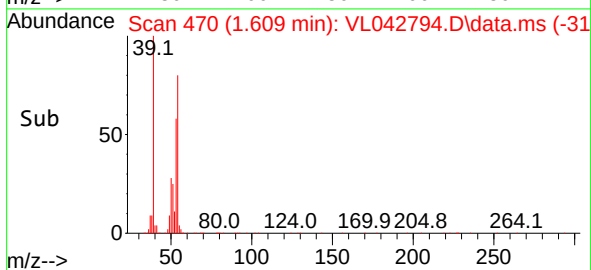
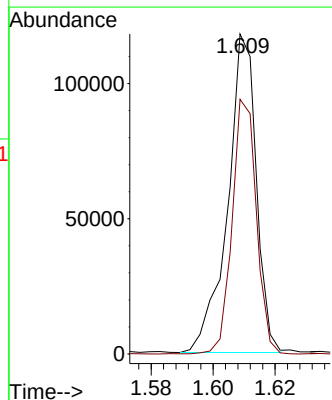
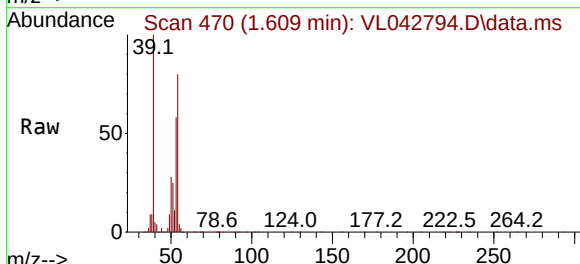
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

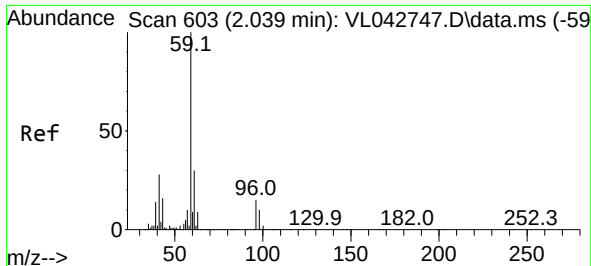
Tgt Ion: 43 Resp: 145544
Ion Ratio Lower Upper
43 100
58 25.4 19.8 29.8



#16
1,3-Butadiene
Concen: 8.933 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 39 Resp: 75425
Ion Ratio Lower Upper
39 100
54 68.1 54.5 81.7





#17

tert-Butyl alcohol

Concen: 8.823 ppbv

RT: 2.042 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_1

ClientSampleId :

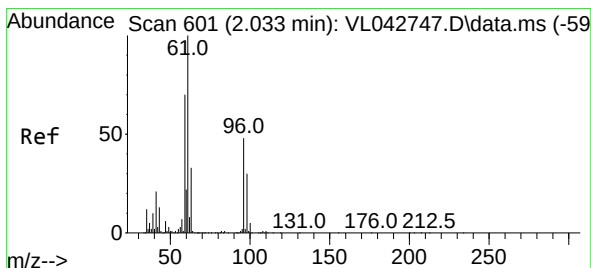
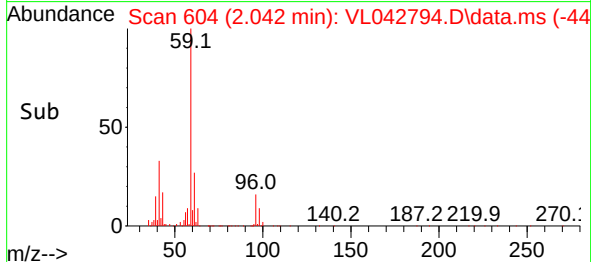
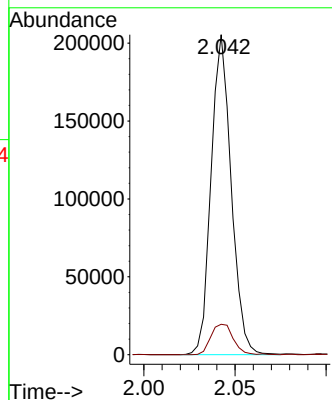
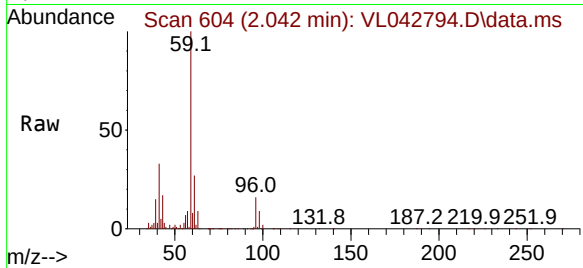
VL0731ABSD01

Tgt Ion: 59 Resp: 157530

Ion Ratio Lower Upper

59 100

57 10.7 8.3 12.5



#18

1,1-Dichloroethene

Concen: 8.904 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

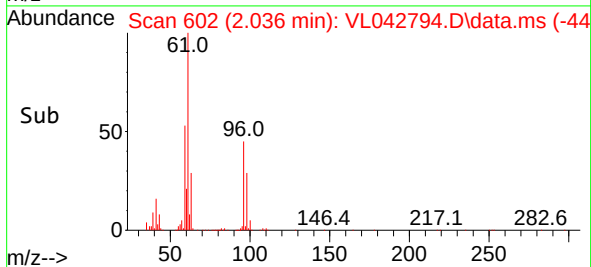
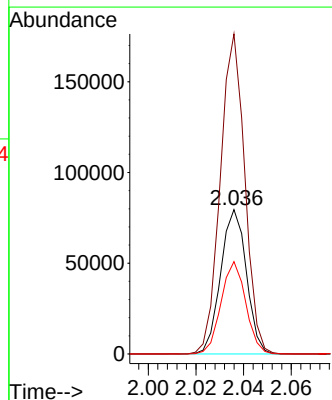
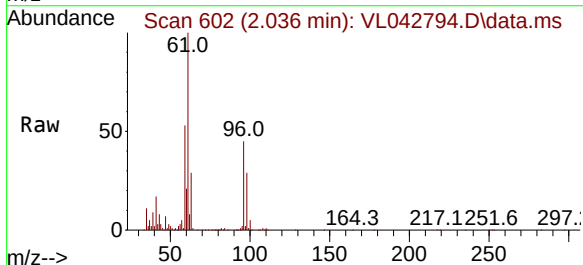
Tgt Ion: 96 Resp: 59735

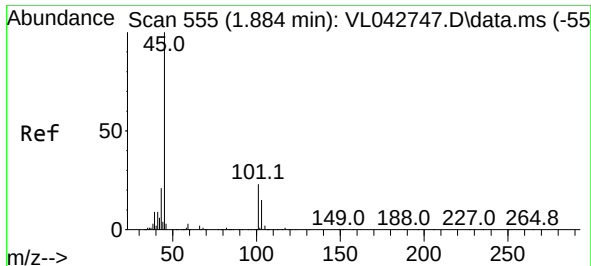
Ion Ratio Lower Upper

96 100

61 221.7 165.8 248.6

98 64.0 49.9 74.9

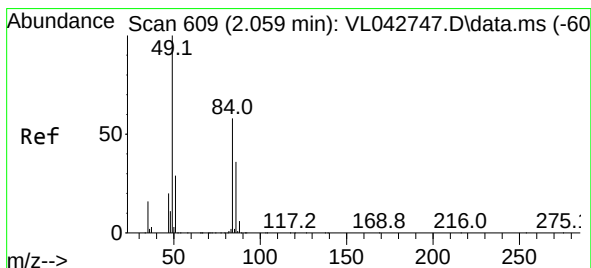
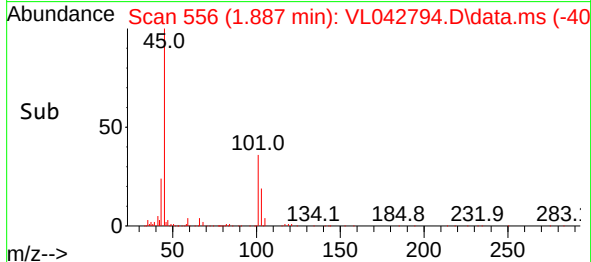
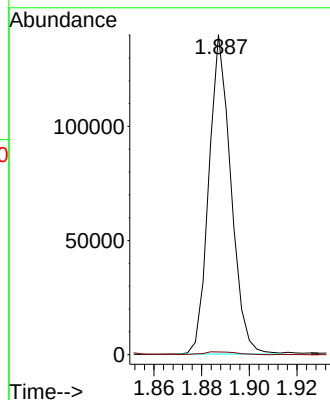
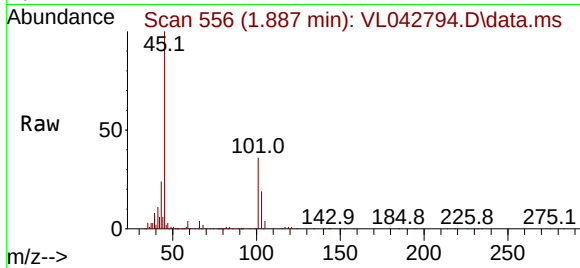




#19
Isopropyl Alcohol
Concen: 8.545 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

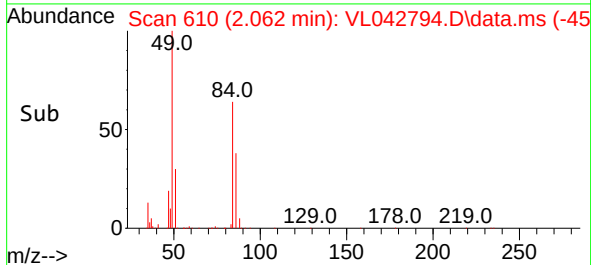
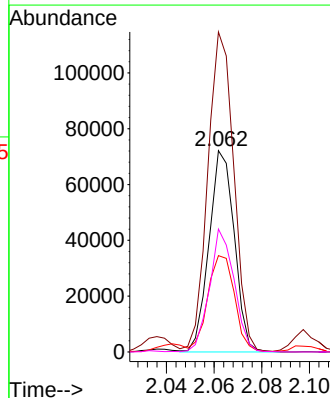
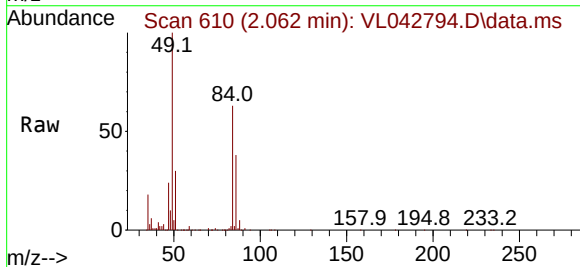
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

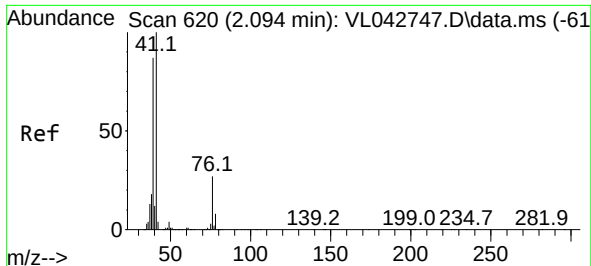
Tgt Ion: 45 Resp: 89890
Ion Ratio Lower Upper
45 100
58 41.1 30.0 45.0



#20
Methylene Chloride
Concen: 8.525 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 84 Resp: 53184
Ion Ratio Lower Upper
84 100
49 158.0 138.6 208.0
51 47.4 40.6 61.0
86 60.9 49.8 74.8

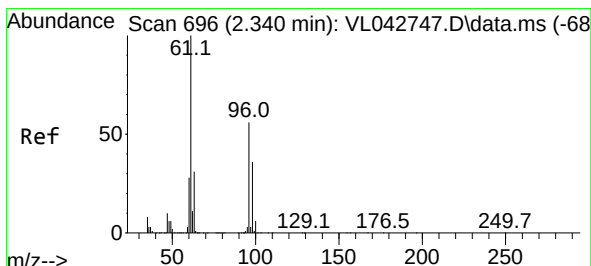
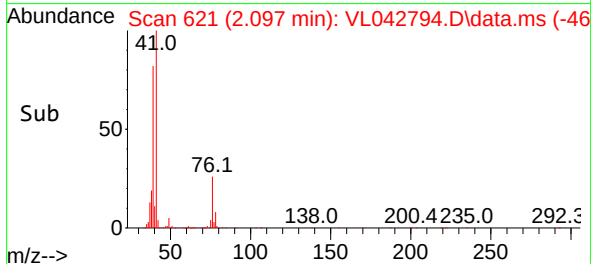
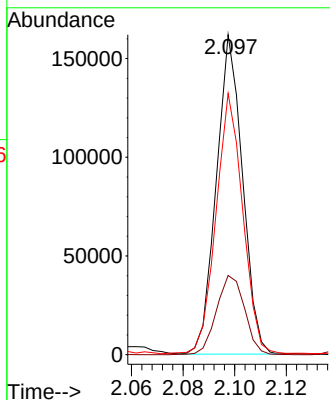
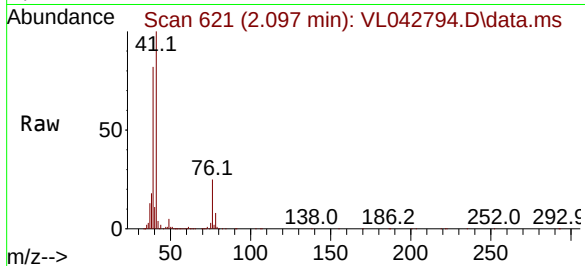




#21
 Allyl Chloride
 Concen: 9.342 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

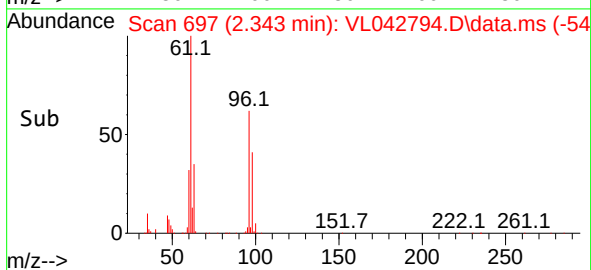
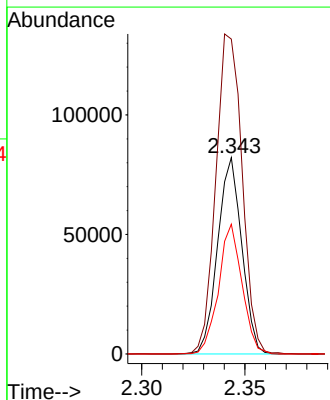
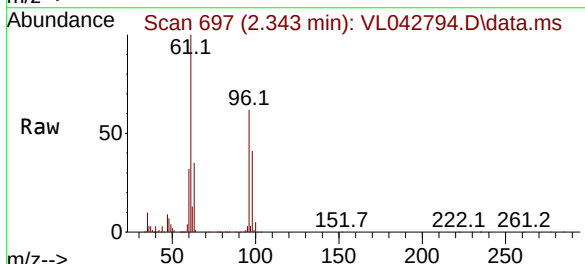
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABSD01

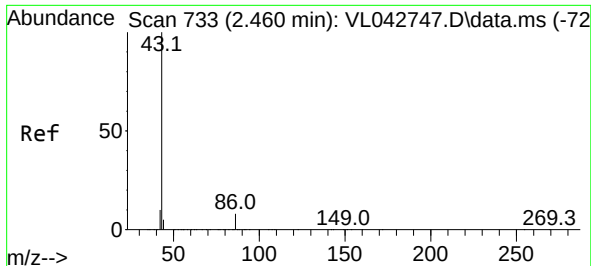
Tgt Ion: 41 Resp: 113975
 Ion Ratio Lower Upper
 41 100
 76 26.6 21.1 31.7
 39 83.0 68.3 102.5



#22
 trans-1,2-Dichloroethene
 Concen: 9.237 ppbv
 RT: 2.343 min Scan# 697
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion: 96 Resp: 66660
 Ion Ratio Lower Upper
 96 100
 61 160.3 142.3 213.5
 98 66.1 50.6 76.0



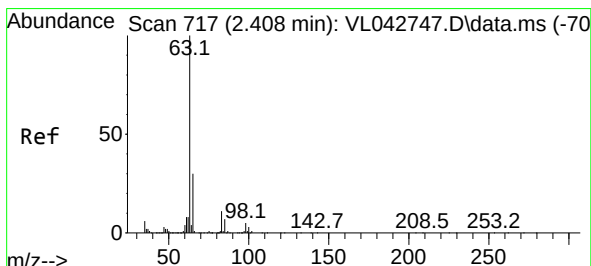
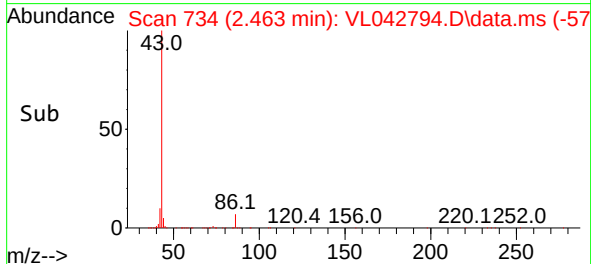
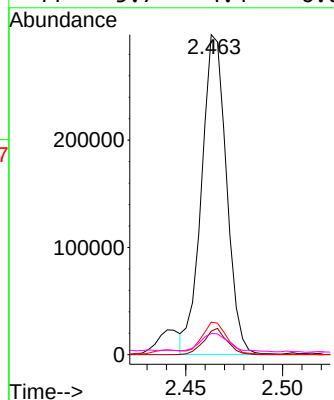
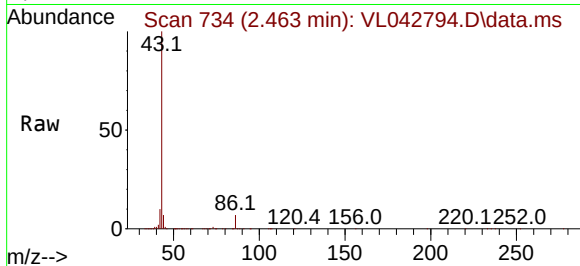


#23
 Vinyl Acetate
 Concen: 11.134 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABSD01

Tgt Ion: 43 Resp: 267217

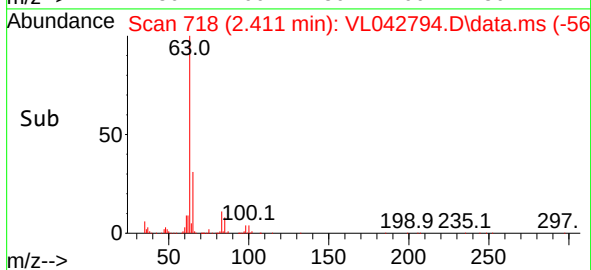
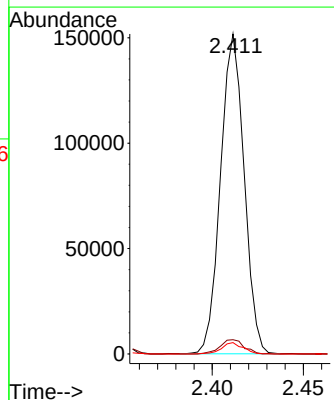
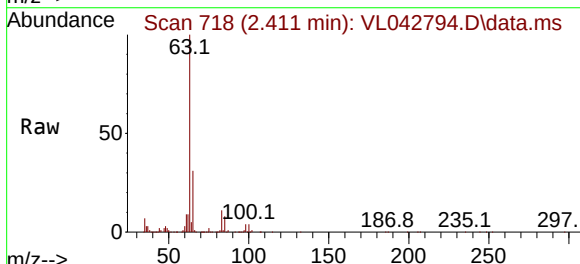
Ion	Ratio	Lower	Upper
43	100		
86	7.3	6.1	9.1
42	10.0	7.8	11.8
44	5.7	4.4	6.6

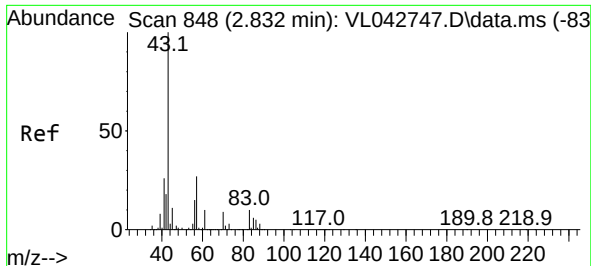


#24
 1,1-Dichloroethane
 Concen: 9.222 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion: 63 Resp: 136610

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.5	7.4
100	3.6	1.6	4.8

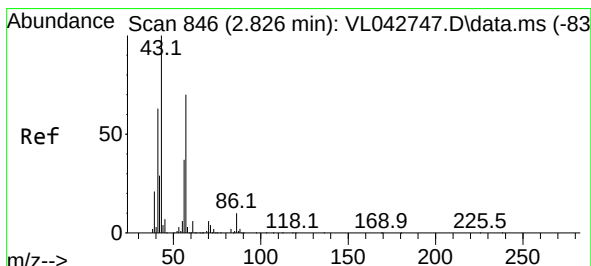
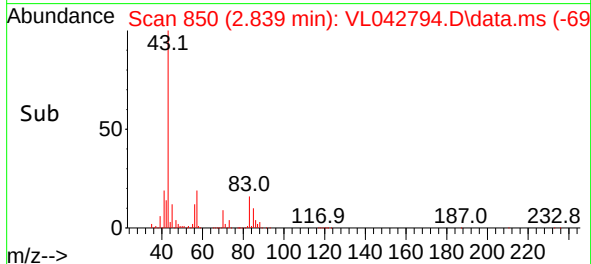
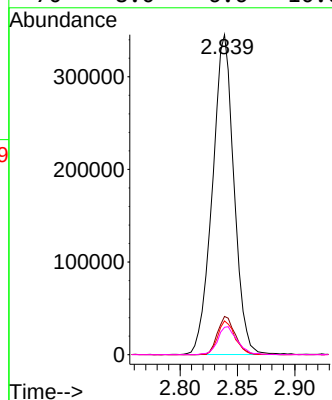
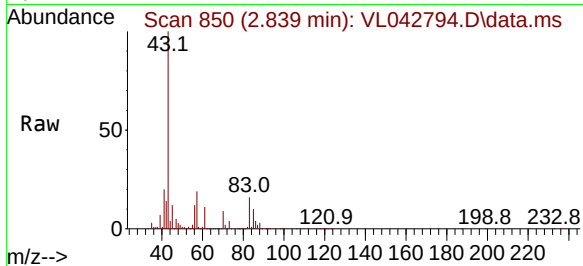




#25
Ethyl Acetate
Concen: 10.270 ppbv
RT: 2.839 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

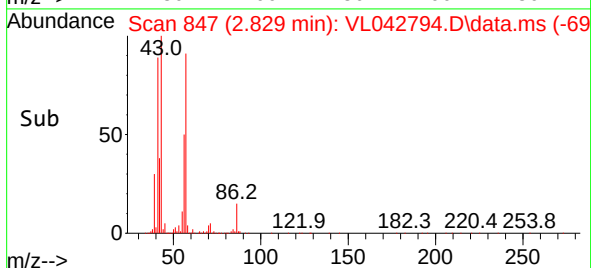
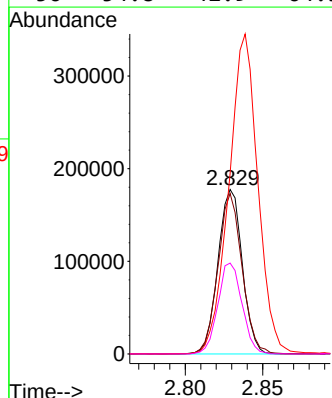
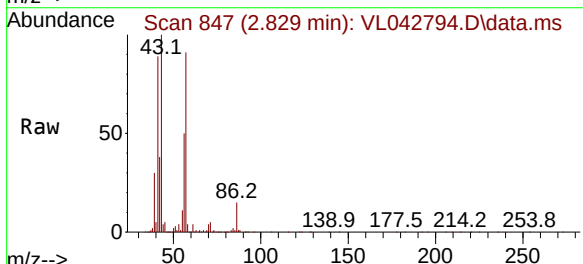
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

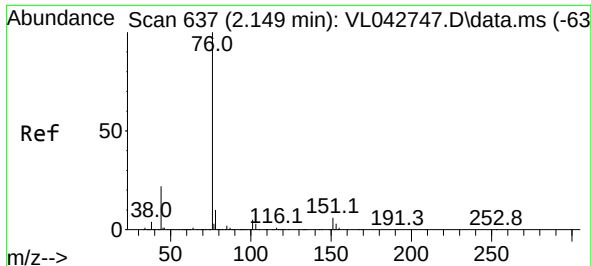
Tgt Ion: 43	Resp: 450028
Ion Ratio	Lower Upper
43 100	
45 9.9	7.8 11.6
61 8.6	6.7 10.1
70 8.0	6.6 10.0



#26
Hexane
Concen: 10.078 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 57	Resp: 193724
Ion Ratio	Lower Upper
57 100	
41 96.9	75.4 113.2
43 233.0	185.0 277.6
56 54.8	42.9 64.3

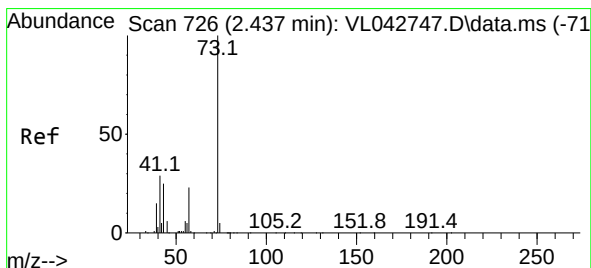
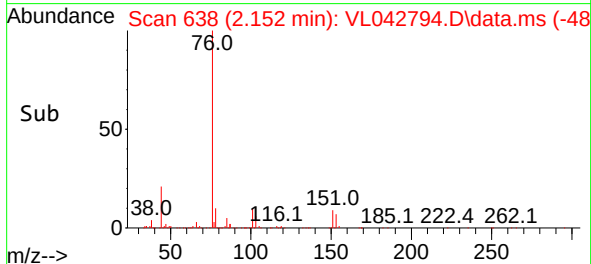
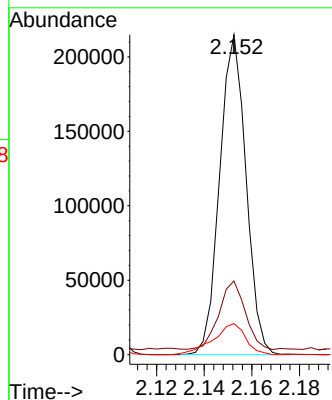
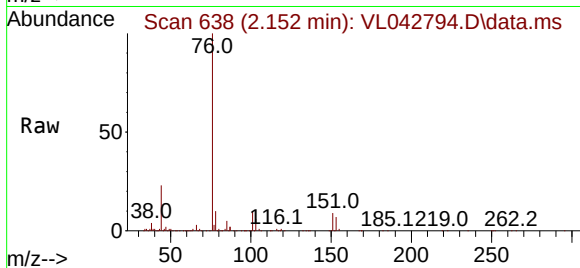




#27
Carbon Disulfide
Concen: 10.023 ppbv
RT: 2.152 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

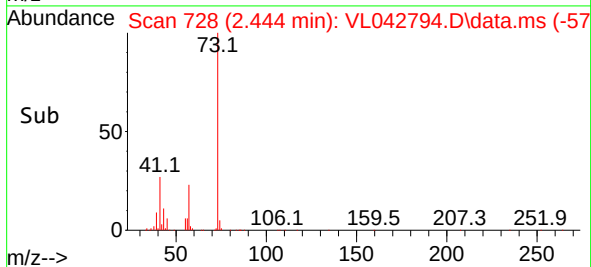
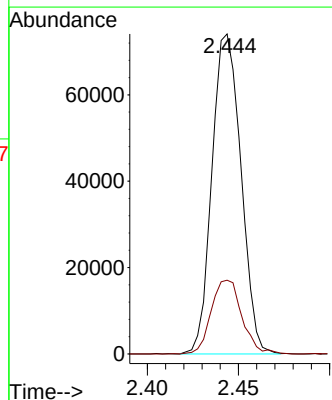
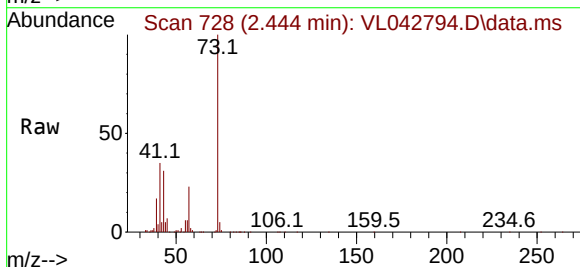
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

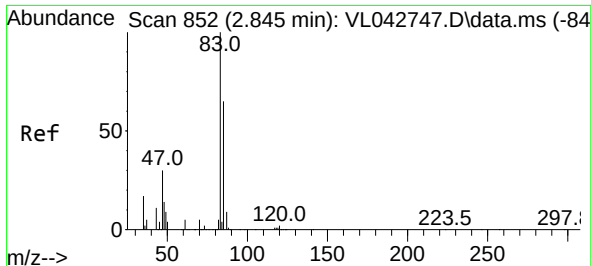
Tgt Ion: 76 Resp: 164945
Ion Ratio Lower Upper
76 100
44 26.1 19.3 28.9
78 12.0 9.9 14.9



#28
Methyl tert-Butyl Ether
Concen: 9.026 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 73 Resp: 81968
Ion Ratio Lower Upper
73 100
57 24.4 19.8 29.8





#29

Chloroform

Concen: 10.176 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

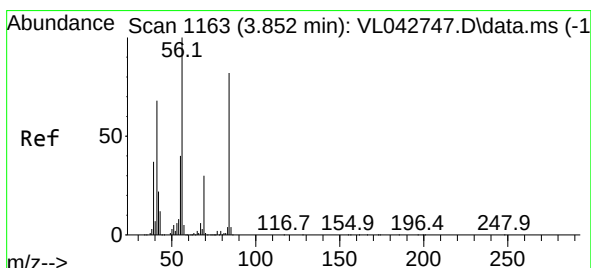
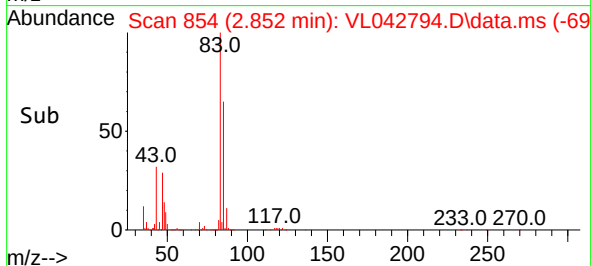
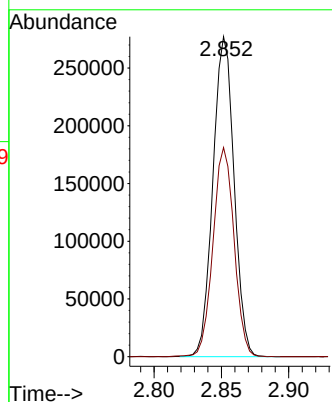
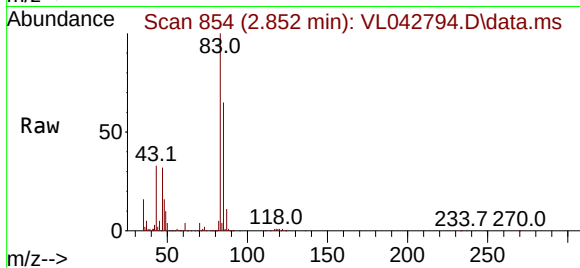
VL0731ABSD01

Tgt Ion: 83 Resp: 302251

Ion Ratio Lower Upper

83 100

85 65.4 52.2 78.2



#30

Cyclohexane

Concen: 9.705 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.013 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

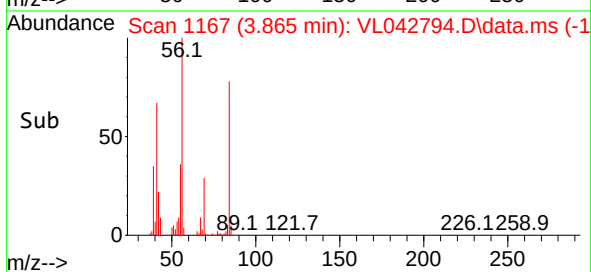
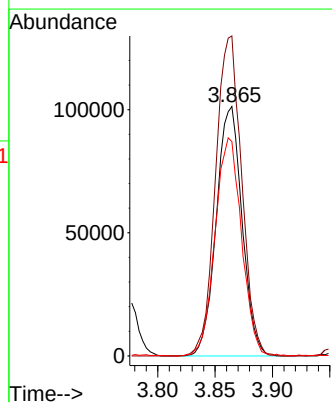
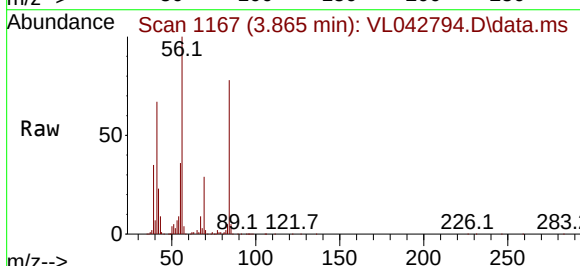
Tgt Ion: 84 Resp: 158206

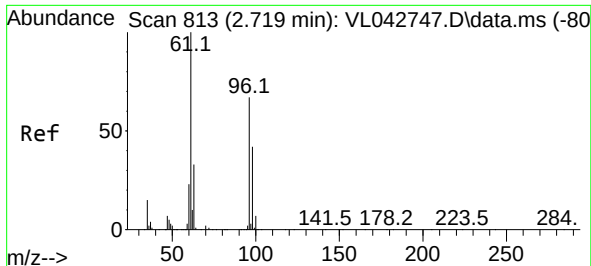
Ion Ratio Lower Upper

84 100

56 129.8 97.5 146.3

41 90.1 67.2 100.8

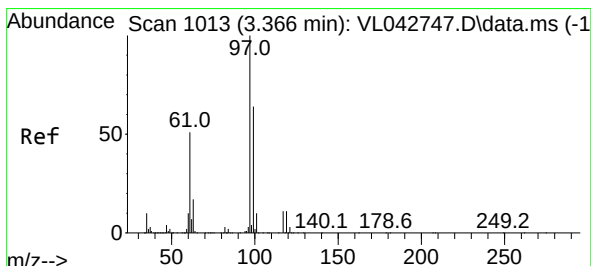
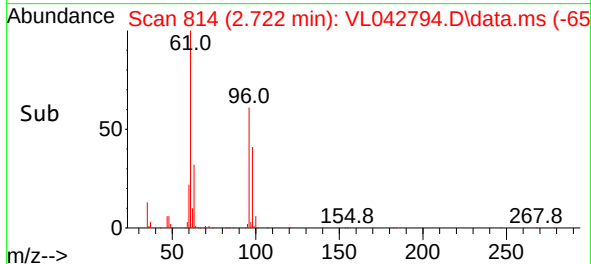
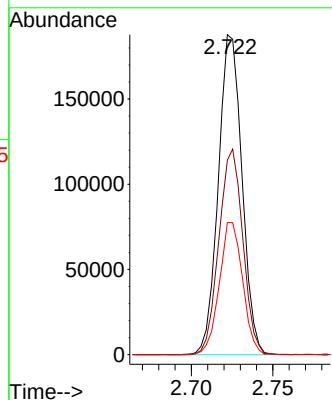
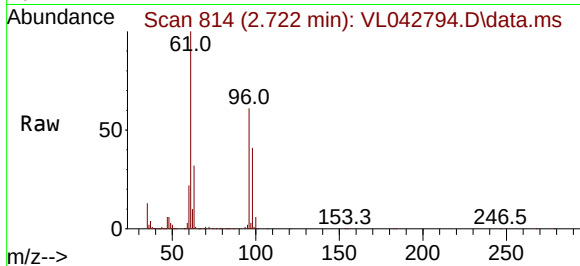




#31
 cis-1,2-Dichloroethene
 Concen: 9.599 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

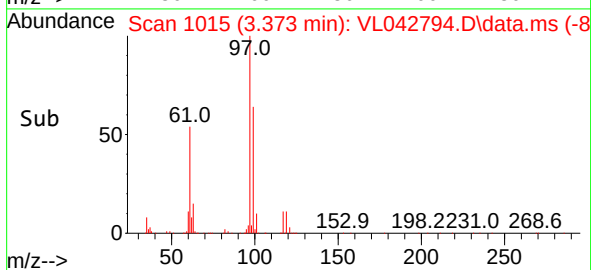
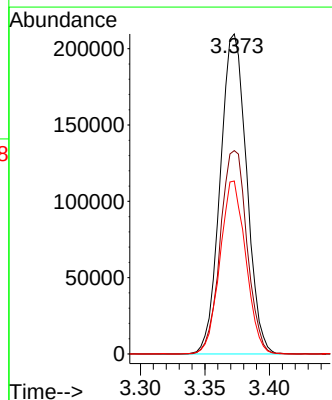
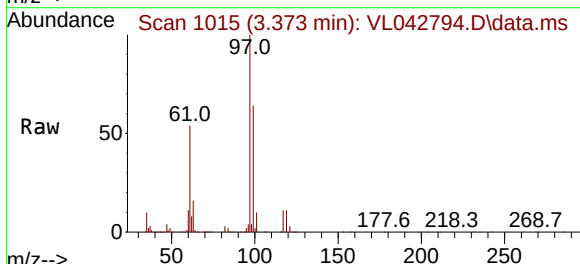
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABSD01

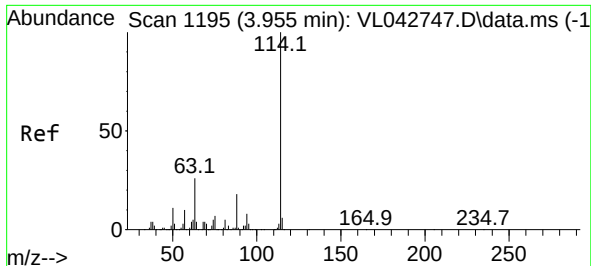
Tgt Ion: 61 Resp: 189601
 Ion Ratio Lower Upper
 61 100
 96 60.8 53.5 80.3
 98 41.3 33.6 50.4



#32
 1,1,1-Trichloroethane
 Concen: 9.605 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.006 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion: 97 Resp: 297175
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.0 76.6
 61 53.0 40.9 61.3

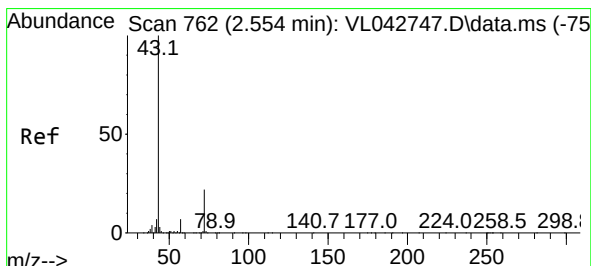
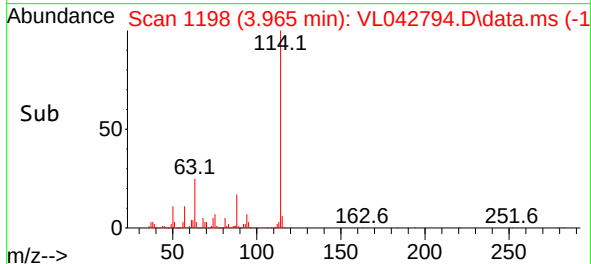
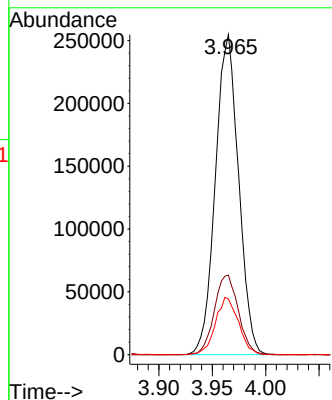
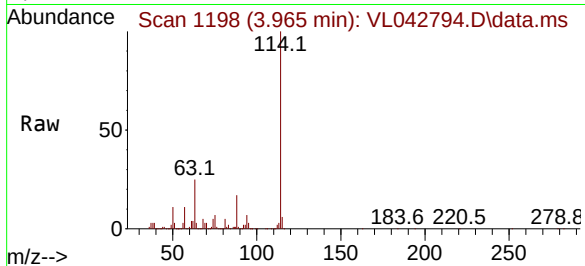




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1195
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

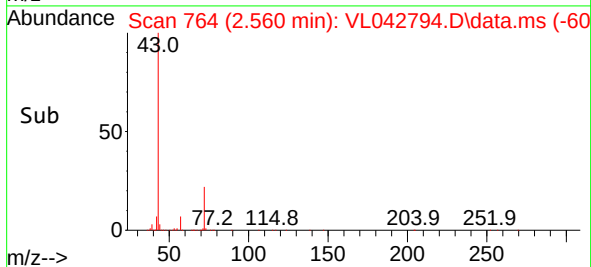
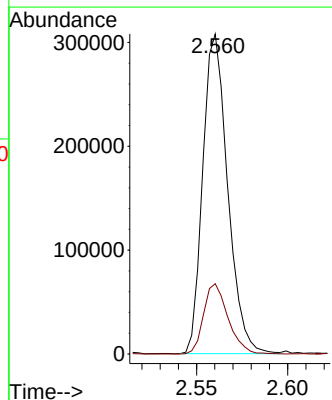
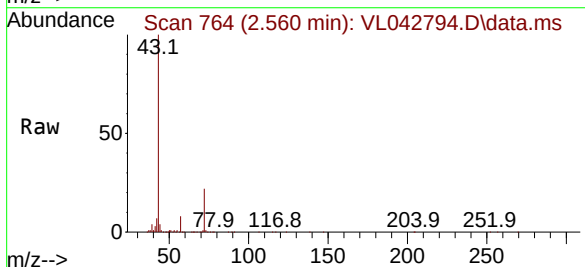
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

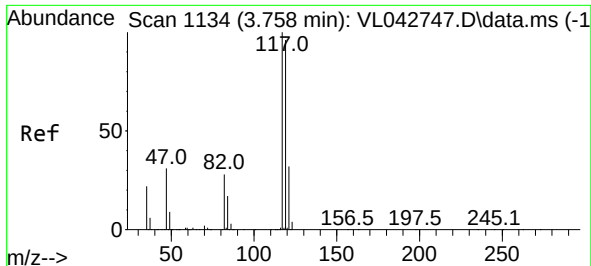
Tgt Ion:114 Resp: 385270
Ion Ratio Lower Upper
114 100
63 25.8 20.5 30.7
88 17.8 14.0 21.0



#34
2-Butanone
Concen: 10.737 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 43 Resp: 293015
Ion Ratio Lower Upper
43 100
72 21.6 17.4 26.0

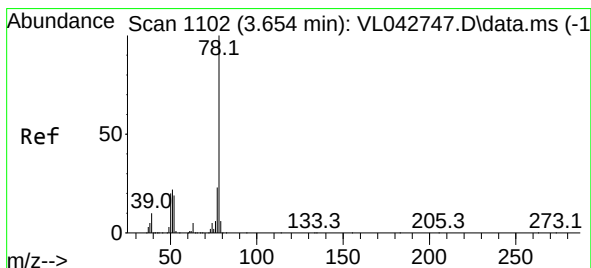
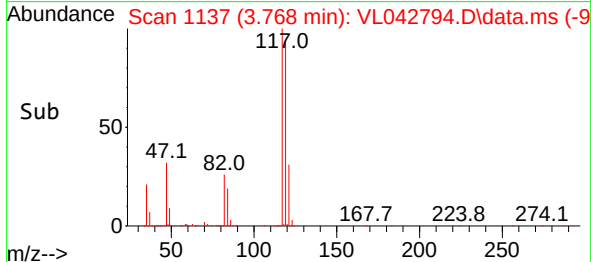
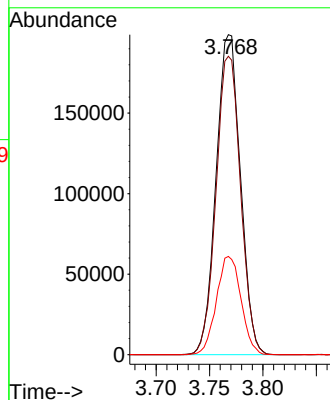
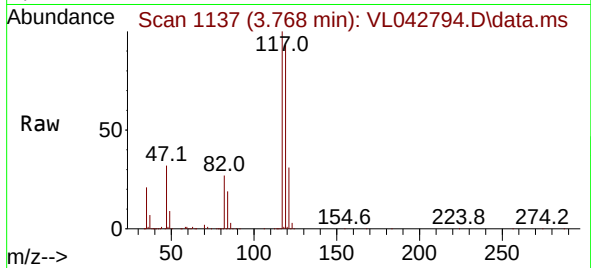




#35
Carbon Tetrachloride
Concen: 11.014 ppbv
RT: 3.768 min Scan# 1134
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

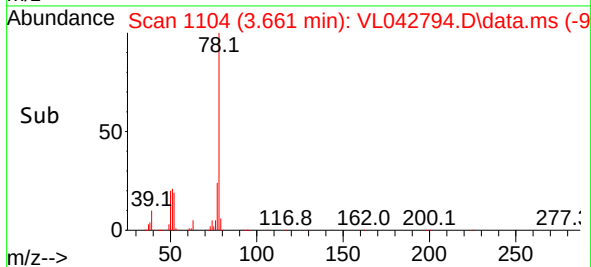
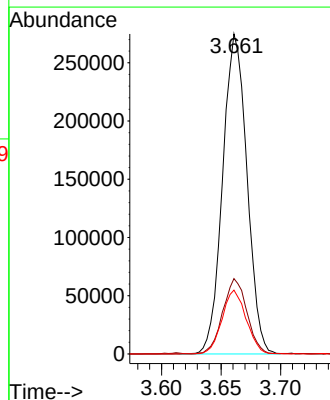
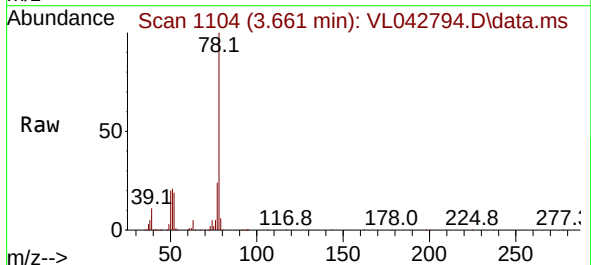
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

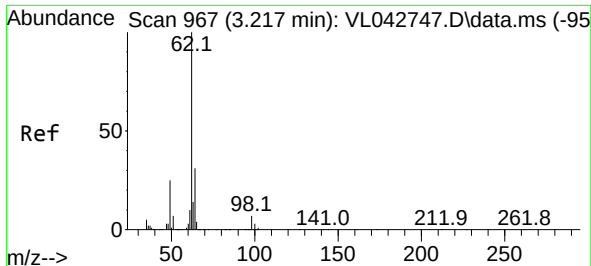
Tgt Ion:117 Resp: 315193
Ion Ratio Lower Upper
117 100
119 93.2 77.1 115.7
121 30.7 25.5 38.3



#36
Benzene
Concen: 10.677 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 78 Resp: 389839
Ion Ratio Lower Upper
78 100
77 23.4 18.5 27.7
50 19.9 16.2 24.2





#37

1,2-Dichloroethane

Concen: 10.756 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

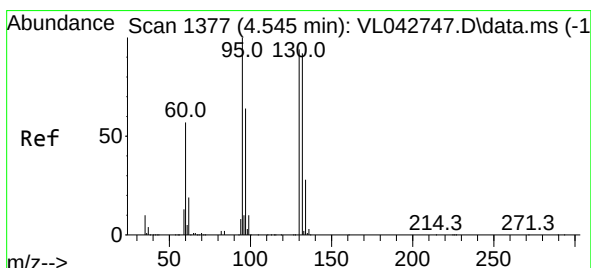
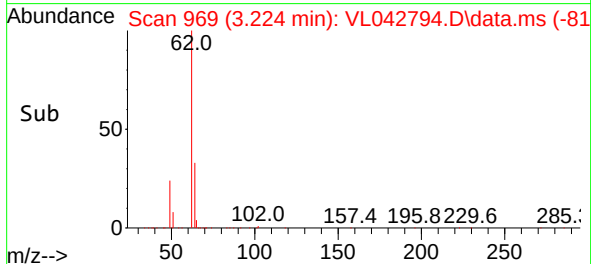
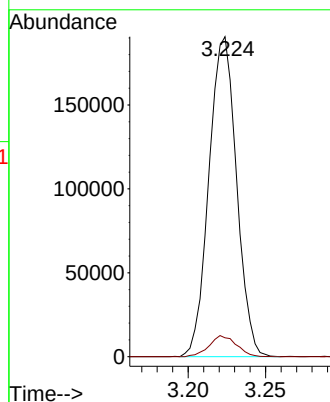
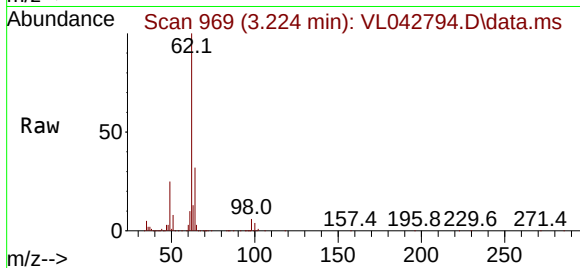
VL0731ABSD01

Tgt Ion: 62 Resp: 236593

Ion Ratio Lower Upper

62 100

98 6.5 5.2 7.8



#38

Trichloroethene

Concen: 9.974 ppbv

RT: 4.557 min Scan# 1381

Delta R.T. 0.013 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion:130 Resp: 174966

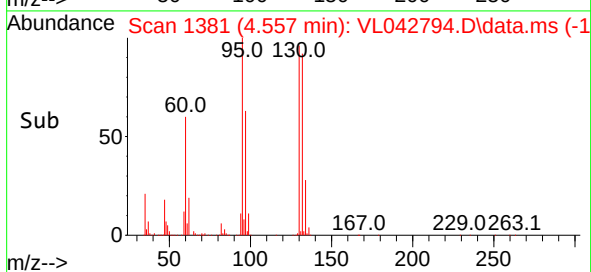
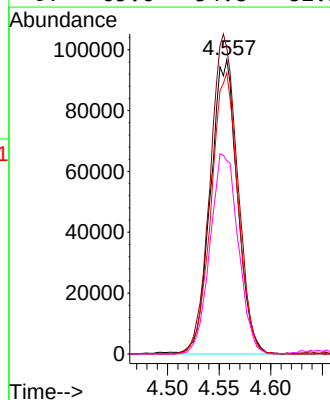
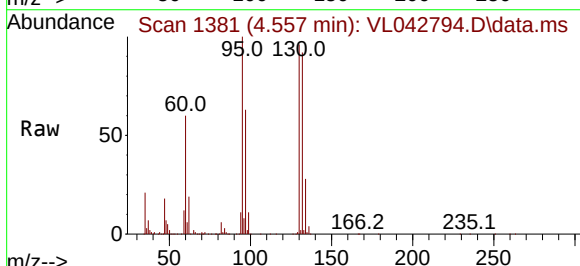
Ion Ratio Lower Upper

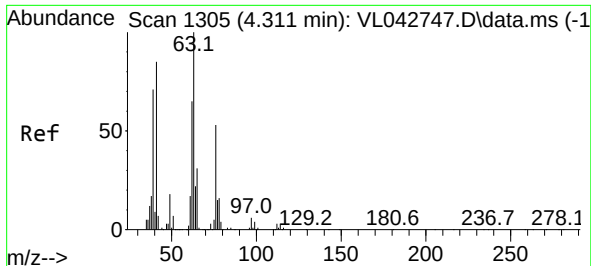
130 100

95 104.0 85.4 128.2

132 95.6 78.2 117.2

97 65.6 54.8 82.2





#39

1,2-Dichloropropane

Concen: 10.741 ppbv

RT: 4.318 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

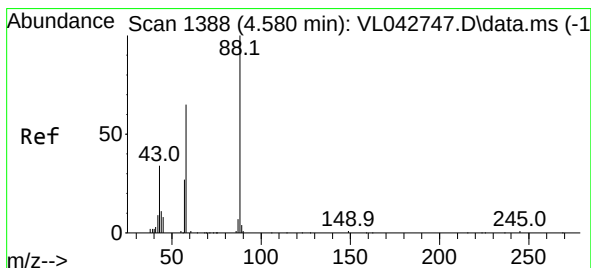
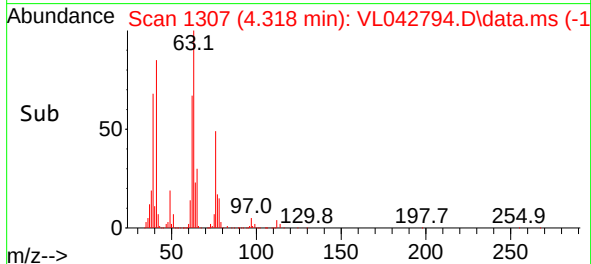
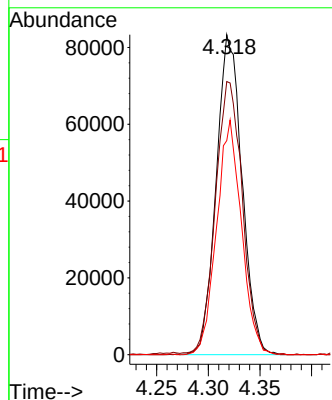
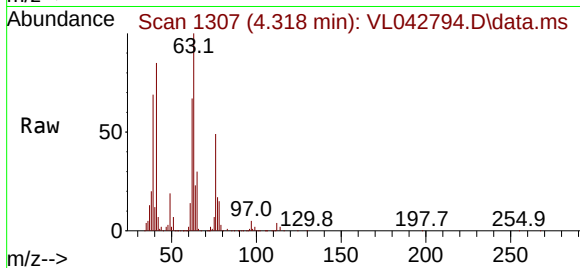
Tgt Ion: 63 Resp: 144769

Ion Ratio Lower Upper

63 100

41 84.8 68.2 102.4

62 66.9 52.0 78.0



#40

1,4-Dioxane

Concen: 9.866 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.010 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Tgt Ion: 88 Resp: 61985

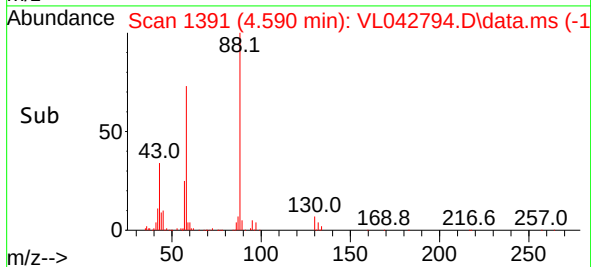
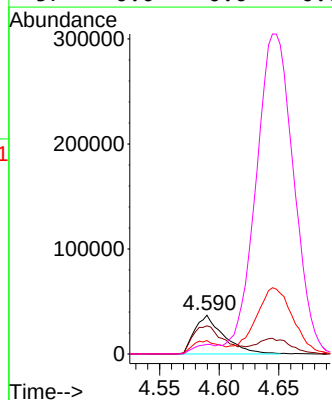
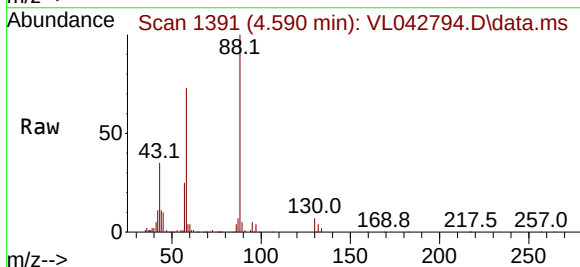
Ion Ratio Lower Upper

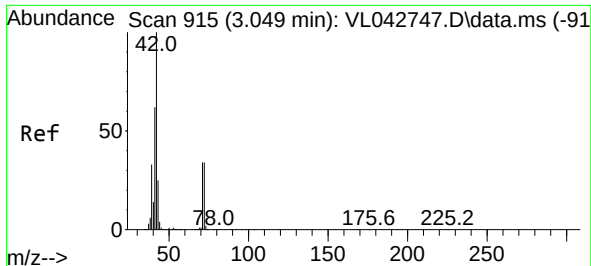
88 100

58 74.7 58.8 88.2

43 32.4 28.9 43.3

57 0.0 0.0 0.0

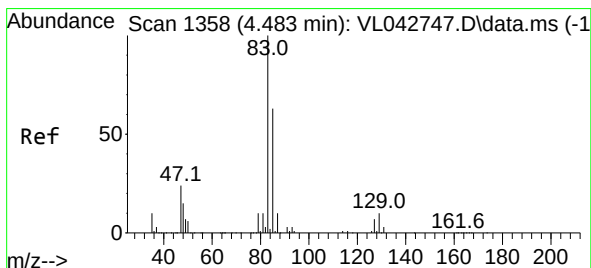
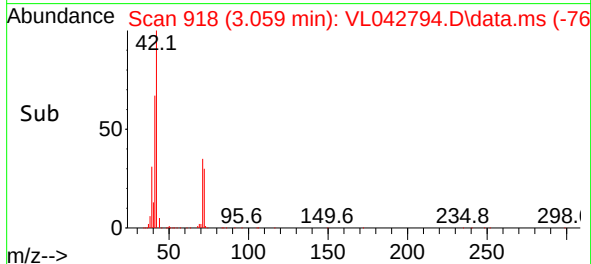
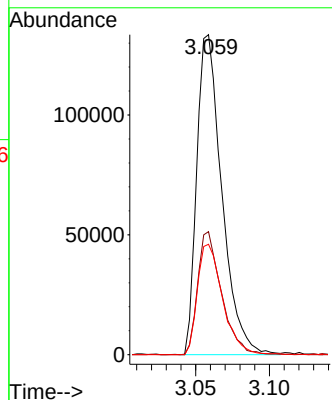
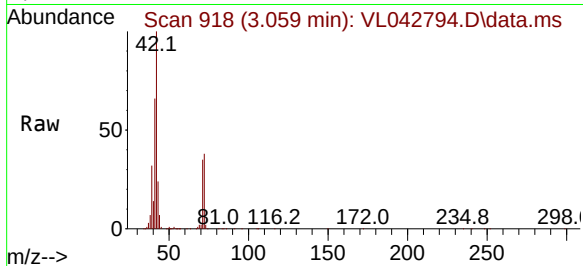




#41
Tetrahydrofuran
Concen: 11.374 ppbv
RT: 3.059 min Scan# 915
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

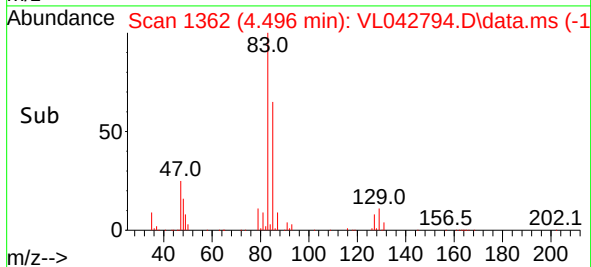
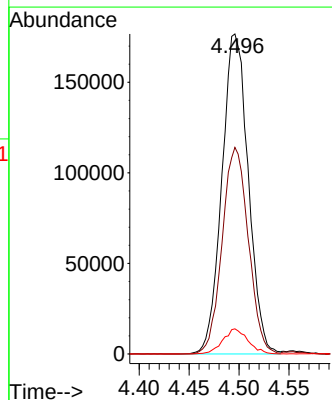
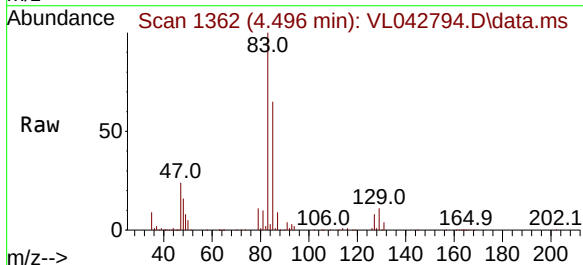
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

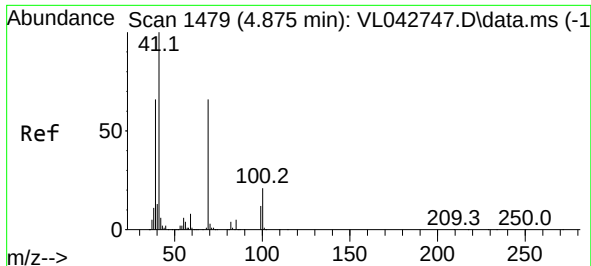
Tgt Ion: 42 Resp: 157948
Ion Ratio Lower Upper
42 100
72 36.5 30.9 46.3
71 34.7 28.6 43.0



#42
Bromodichloromethane
Concen: 11.336 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 83 Resp: 324724
Ion Ratio Lower Upper
83 100
85 64.6 50.2 75.4
127 7.9 5.4 8.2

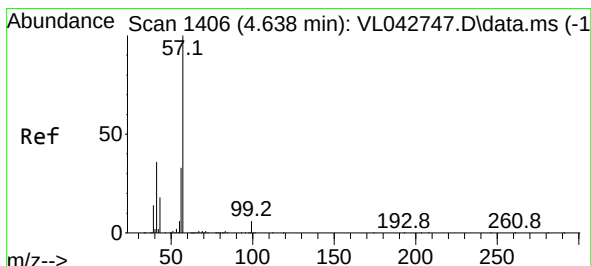
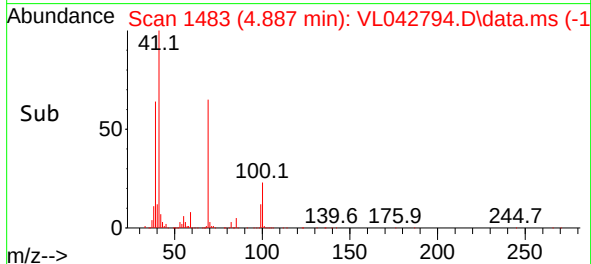
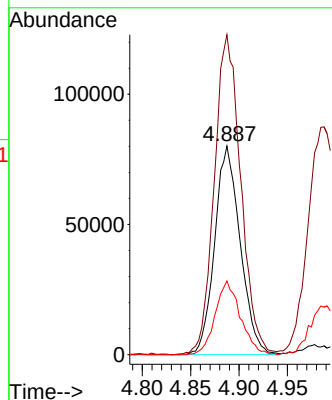
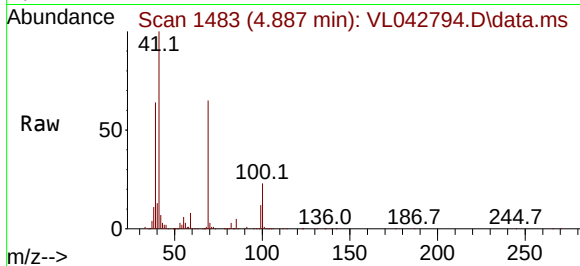




#43
Methyl Methacrylate
Concen: 11.338 ppbv
RT: 4.887 min Scan# 1479
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

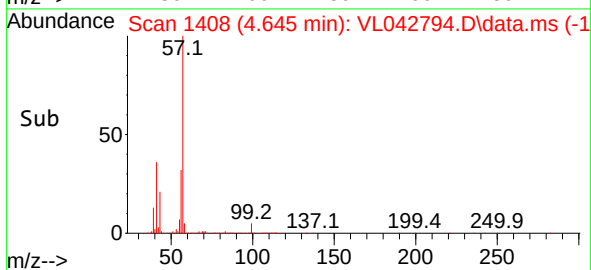
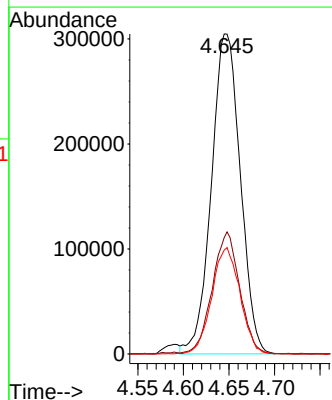
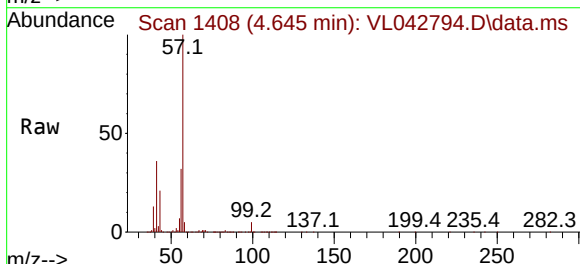
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

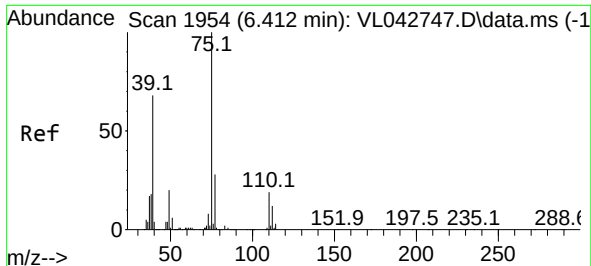
Tgt Ion: 69 Resp: 147145
Ion Ratio Lower Upper
69 100
41 158.7 125.7 188.5
100 34.8 28.6 42.8



#44
2,2,4-Trimethylpentane
Concen: 11.311 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 57 Resp: 673176
Ion Ratio Lower Upper
57 100
41 36.6 28.3 42.5
56 32.6 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 10.976 ppbv

RT: 6.422 min Scan# 1954

Delta R.T. 0.010 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_1

ClientSampleId :

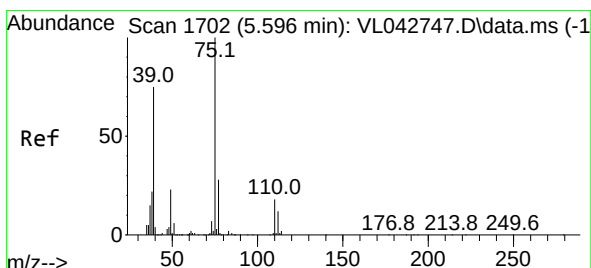
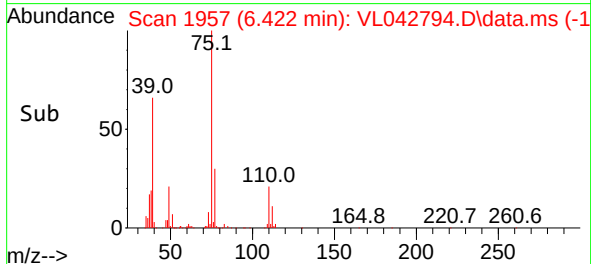
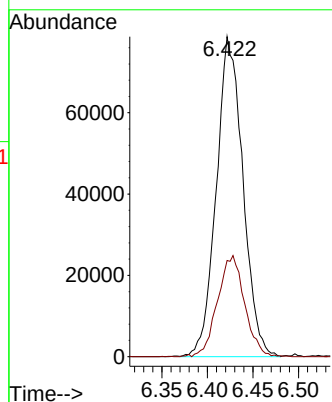
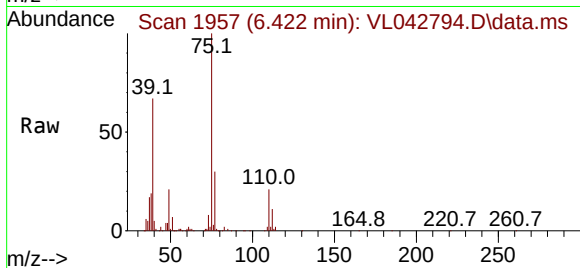
VL0731ABSD01

Tgt Ion: 75 Resp: 159751

Ion Ratio Lower Upper

75 100

77 30.1 22.4 33.6



#46

cis-1,3-Dichloropropene

Concen: 11.160 ppbv

RT: 5.609 min Scan# 1706

Delta R.T. 0.013 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

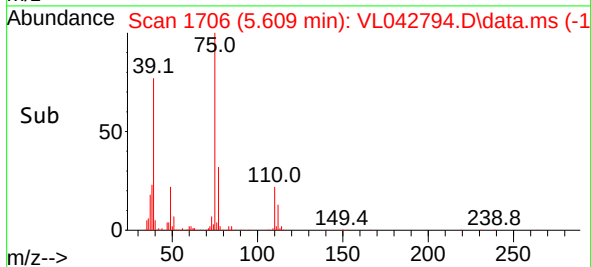
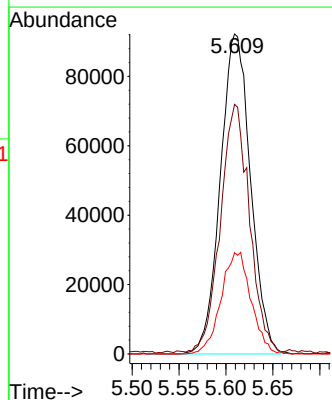
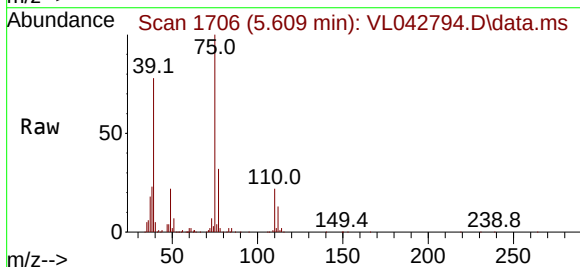
Tgt Ion: 75 Resp: 205816

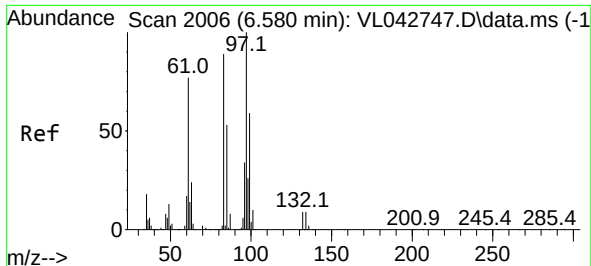
Ion Ratio Lower Upper

75 100

39 77.2 60.2 90.2

77 31.7 22.6 34.0

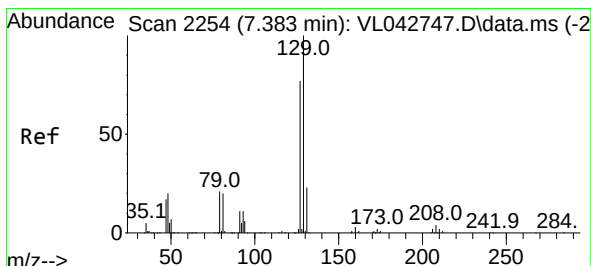
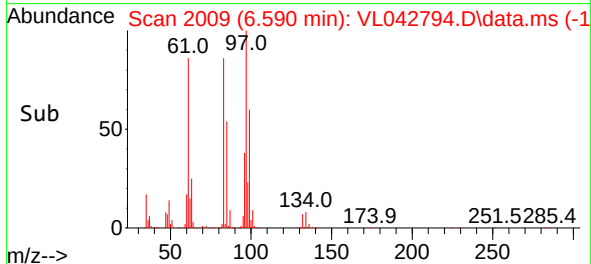
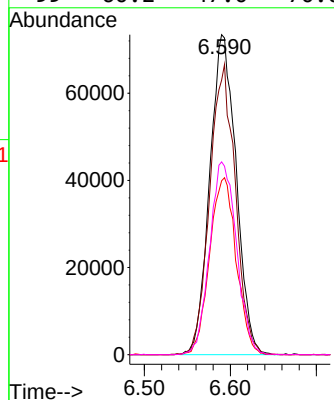
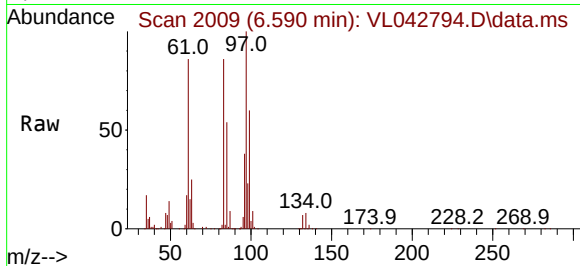




#47
 1,1,2-Trichloroethane
 Concen: 10.873 ppbv
 RT: 6.590 min Scan# 2006
 Delta R.T. 0.010 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

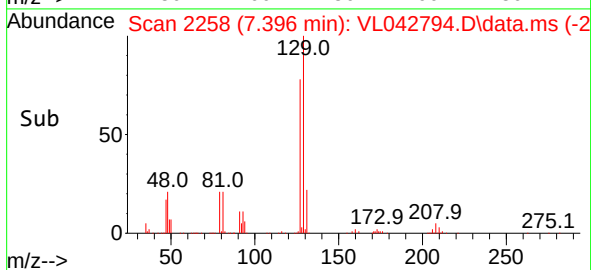
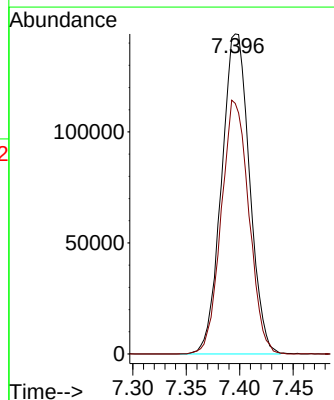
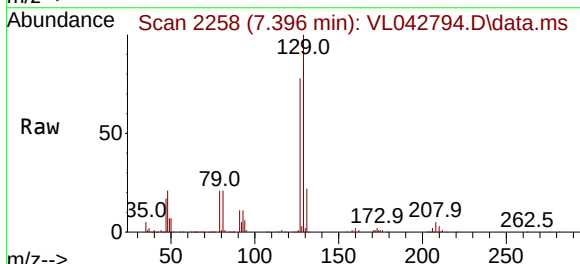
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01

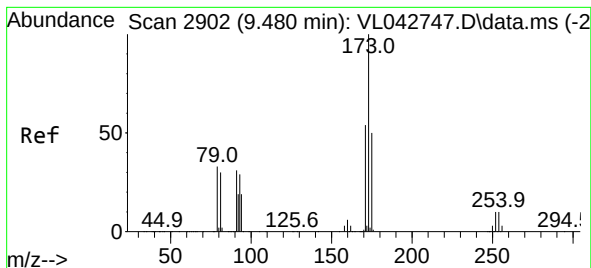
Tgt Ion: 97	Resp: 156216		
Ion	Ratio	Lower	Upper
97	100		
83	85.7	71.1	106.7
85	54.3	43.0	64.4
99	60.2	47.0	70.6



#48
 Dibromochloromethane
 Concen: 11.510 ppbv
 RT: 7.396 min Scan# 2258
 Delta R.T. 0.013 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion:129	Resp: 262522
Ion Ratio	Lower Upper
129 100	
127 78.2	38.7 116.1





#49

Bromoform

Concen: 11.811 ppbv

RT: 9.493 min Scan# 2906

Delta R.T. 0.013 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

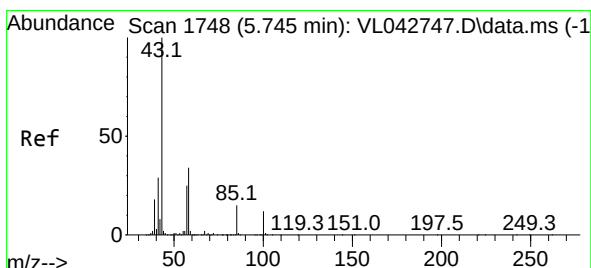
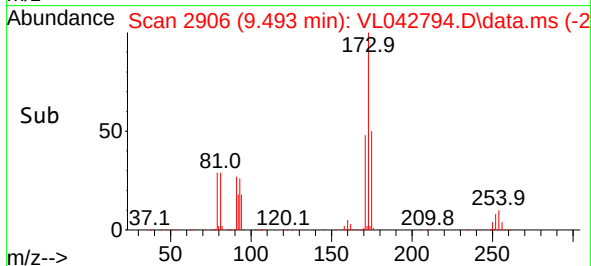
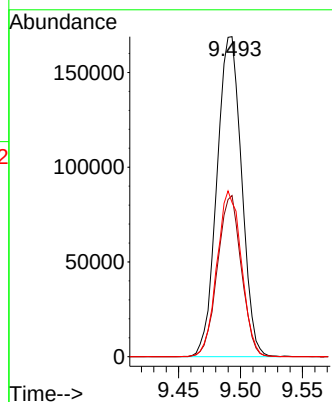
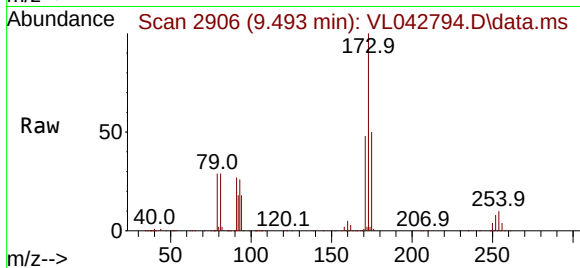
Tgt Ion:173 Resp: 234893

Ion Ratio Lower Upper

173 100

175 48.8 38.4 57.6

171 51.5 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 11.467 ppbv

RT: 5.761 min Scan# 1753

Delta R.T. 0.016 min

Lab File: VL042794.D

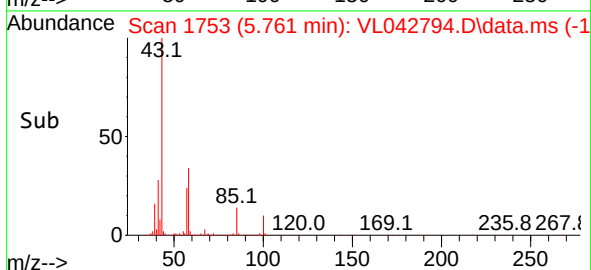
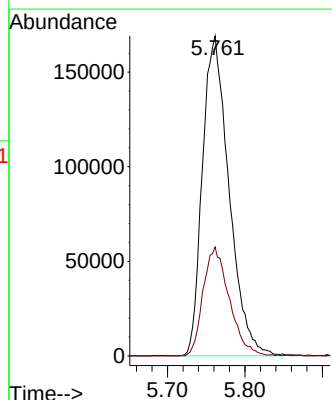
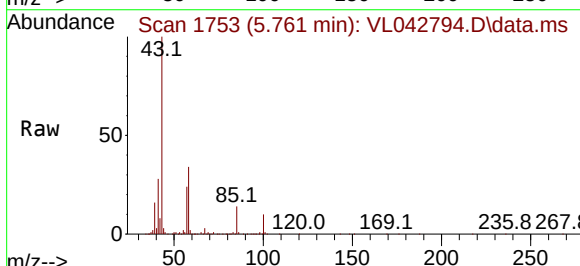
Acq: 31 Jul 2025 13:55

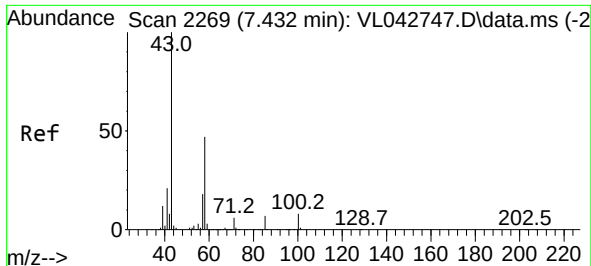
Tgt Ion: 43 Resp: 403132

Ion Ratio Lower Upper

43 100

58 33.5 27.8 41.8

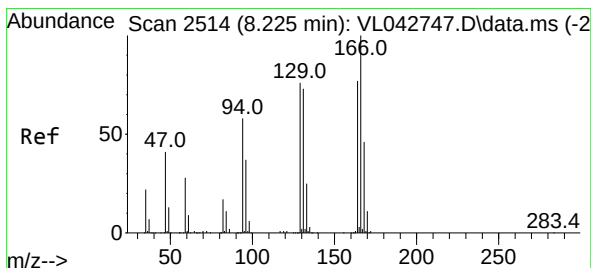
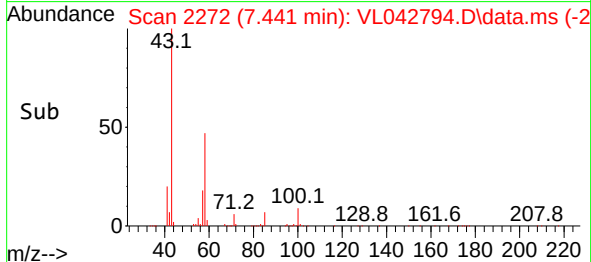
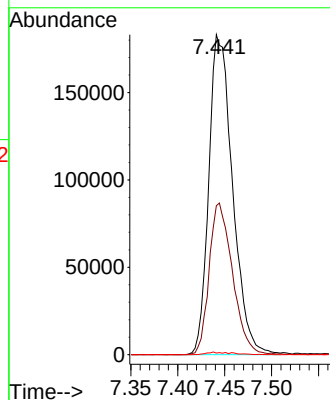
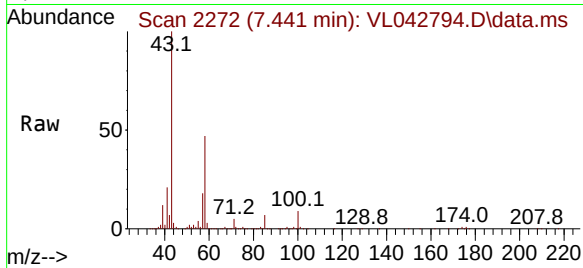




#51
2-Hexanone
Concen: 12.152 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

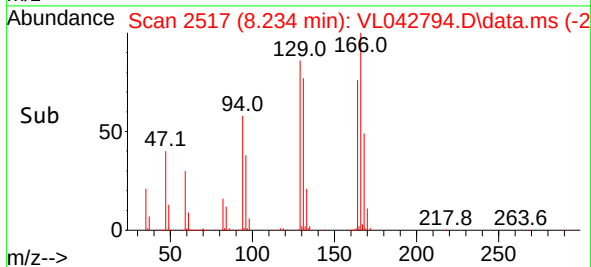
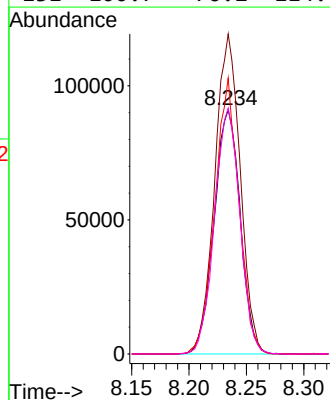
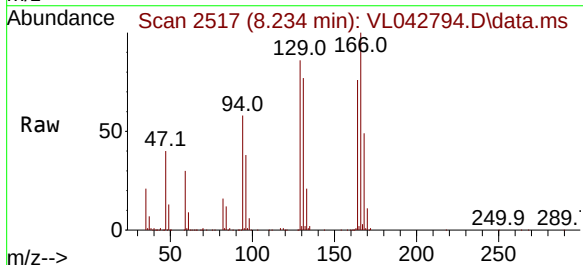
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

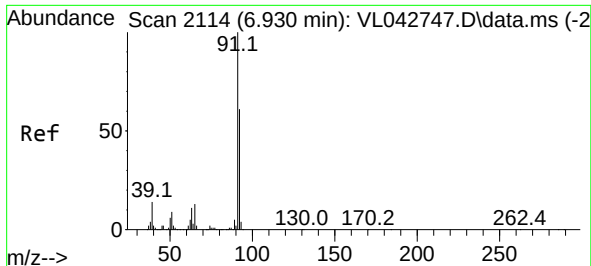
Tgt Ion: 43 Resp: 322822
Ion Ratio Lower Upper
43 100
58 46.5 38.0 57.0
98 0.9 0.2 0.4#



#52
Tetrachloroethene
Concen: 9.518 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.009 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 164 Resp: 144051
Ion Ratio Lower Upper
164 100
166 131.1 104.0 156.0
129 112.9 79.2 118.8
131 100.7 76.2 114.4

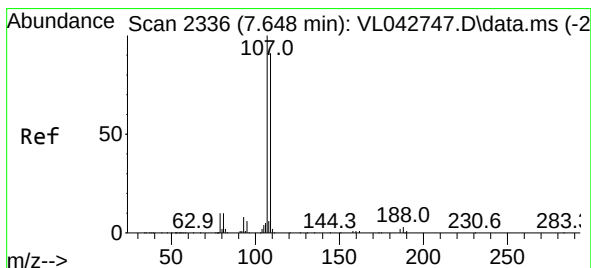
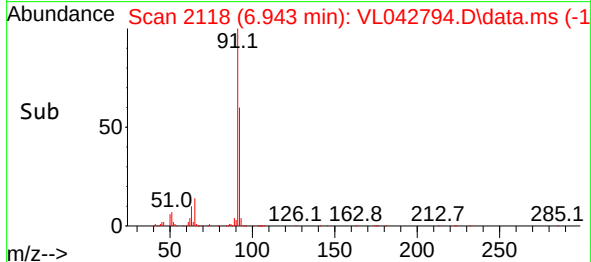
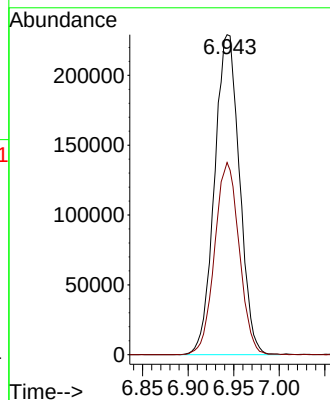
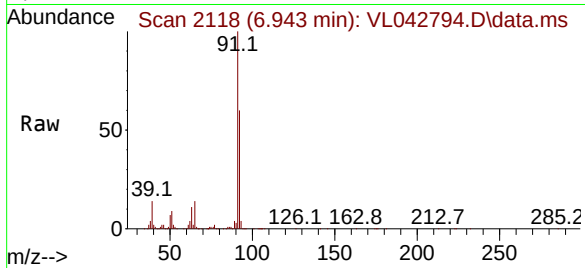




#53
Toluene
Concen: 11.135 ppbv
RT: 6.943 min Scan# 2114
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

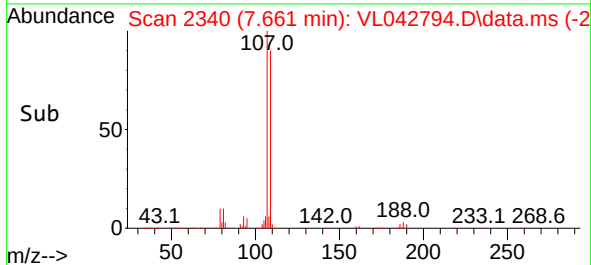
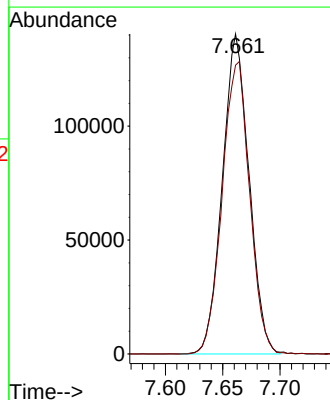
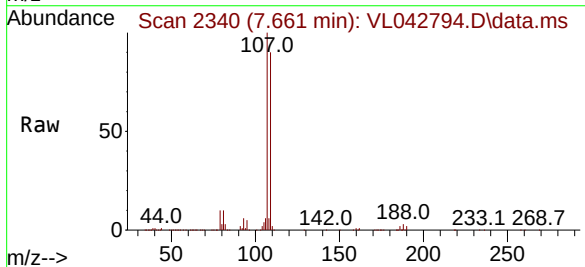
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

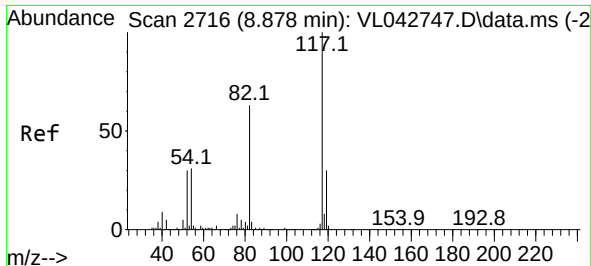
Tgt Ion: 91 Resp: 436601
Ion Ratio Lower Upper
91 100
92 59.1 48.0 72.0



#54
1,2-Dibromoethane
Concen: 11.172 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.013 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 107 Resp: 226779
Ion Ratio Lower Upper
107 100
109 90.2 72.7 109.1

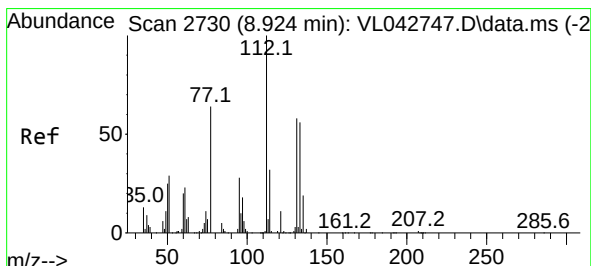
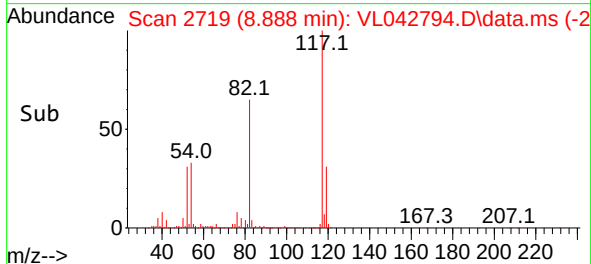
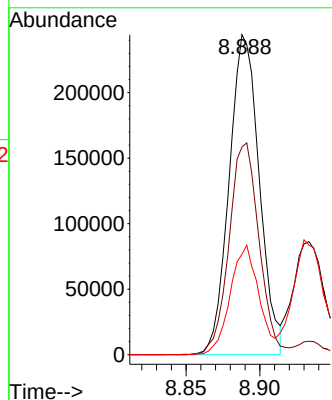
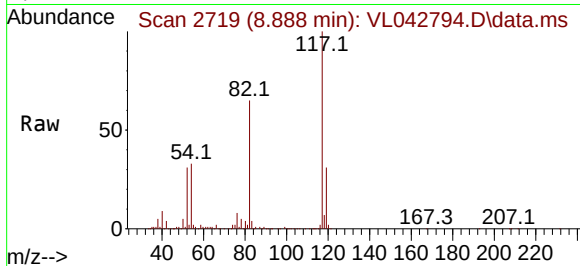




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2716
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

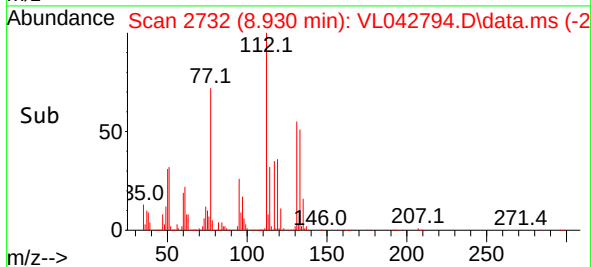
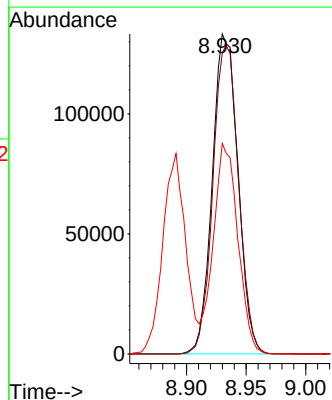
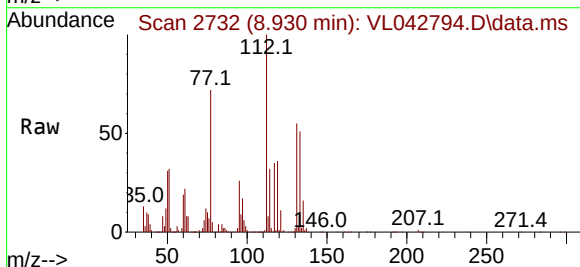
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

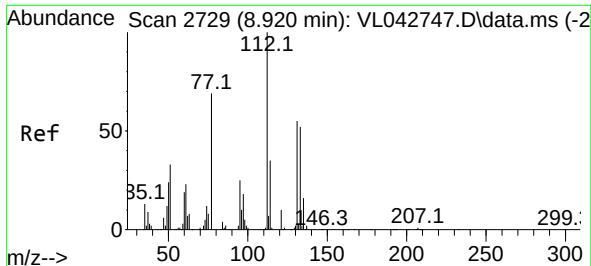
Tgt Ion:117 Resp: 347681
Ion Ratio Lower Upper
117 100
82 69.6 53.3 79.9
119 33.5 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 11.035 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion:131 Resp: 199484
Ion Ratio Lower Upper
131 100
133 96.5 76.8 115.2
119 64.2 49.7 74.5

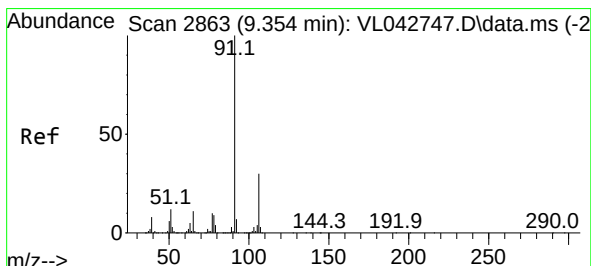
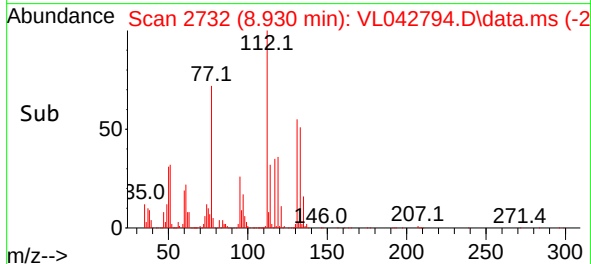
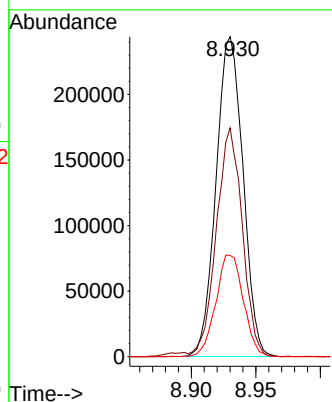
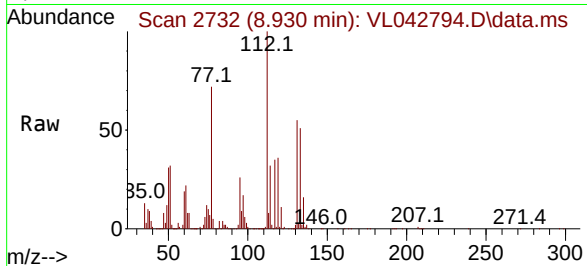




#57
Chlorobenzene
Concen: 10.519 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

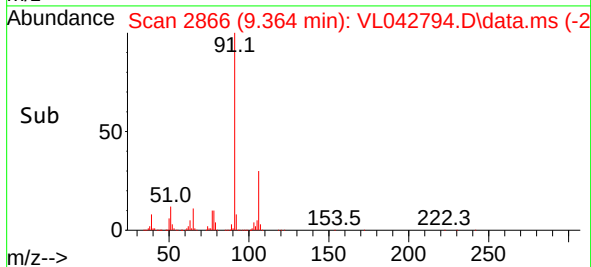
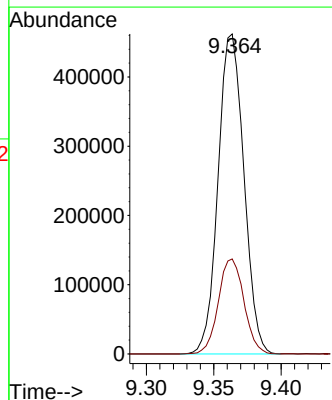
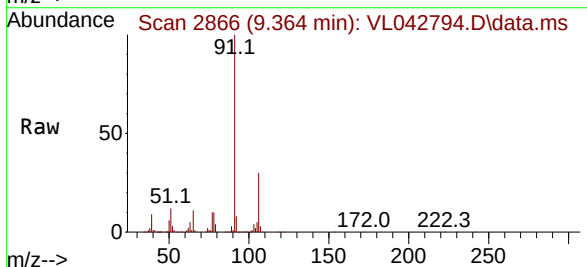
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

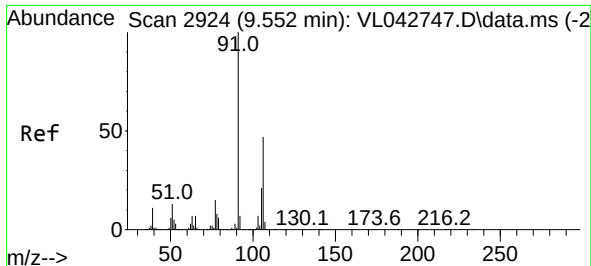
Tgt Ion:112 Resp: 353946
Ion Ratio Lower Upper
112 100
77 71.6 56.4 84.6
114 31.6 31.2 38.2



#58
Ethyl Benzene
Concen: 11.212 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 91 Resp: 615615
Ion Ratio Lower Upper
91 100
106 29.7 23.8 35.6

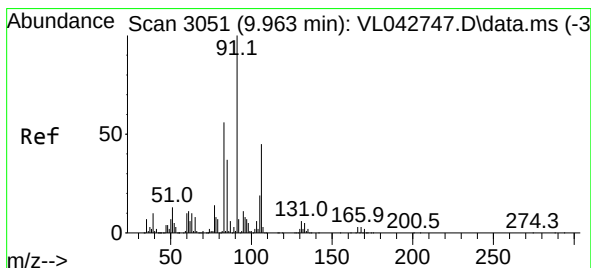
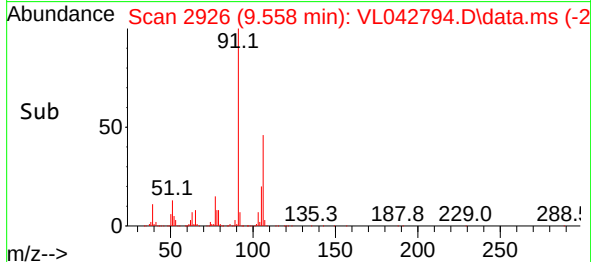
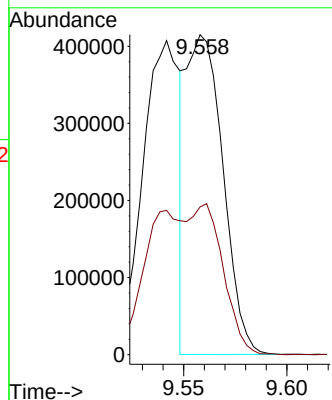
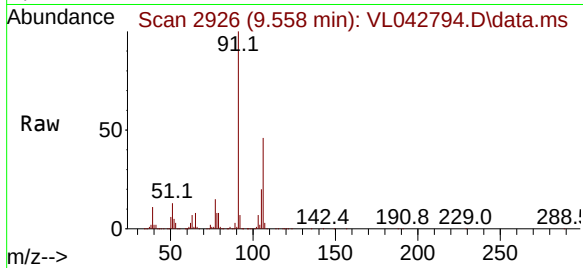




#59
m/p-Xylene
Concen: 11.643 ppbv
RT: 9.558 min Scan# 2924
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

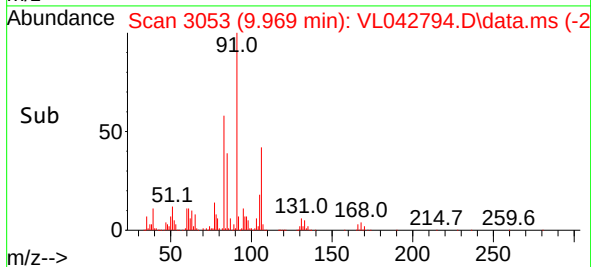
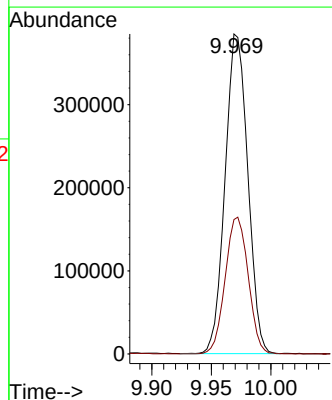
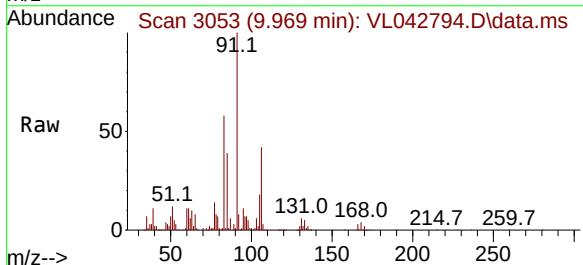
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

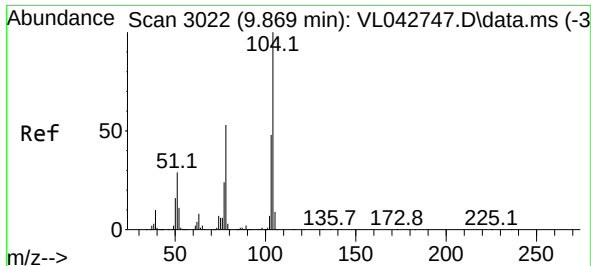
Tgt Ion: 91 Resp: 510911
Ion Ratio Lower Upper
91 100
106 93.2 37.4 56.2#



#60
o-Xylene
Concen: 11.615 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 91 Resp: 509306
Ion Ratio Lower Upper
91 100
106 43.6 22.0 66.0





#61

Styrene

Concen: 11.813 ppbv

RT: 9.878 min Scan# 3022

Delta R.T. 0.009 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

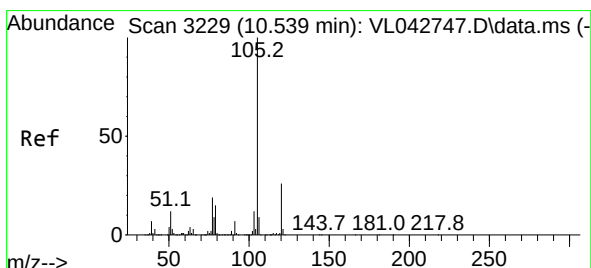
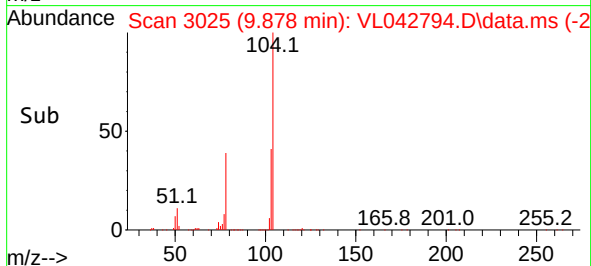
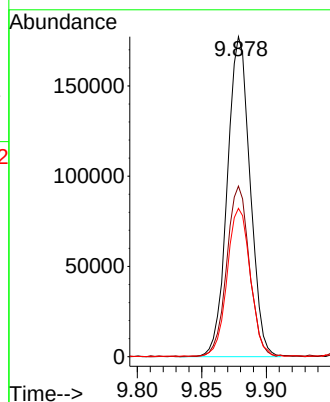
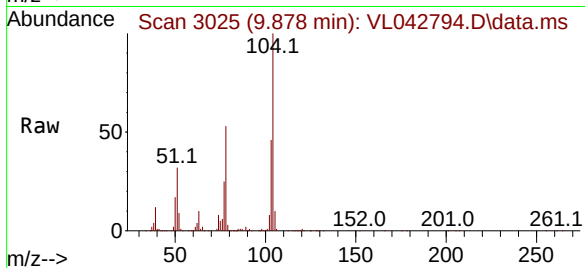
Tgt Ion:104 Resp: 217878

Ion Ratio Lower Upper

104 100

78 53.1 41.5 62.3

103 47.6 37.5 56.3



#62

Isopropylbenzene

Concen: 11.304 ppbv

RT: 10.545 min Scan# 3231

Delta R.T. 0.006 min

Lab File: VL042794.D

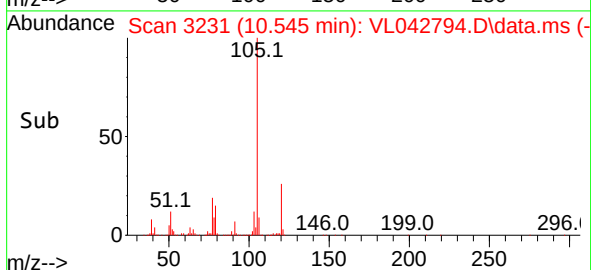
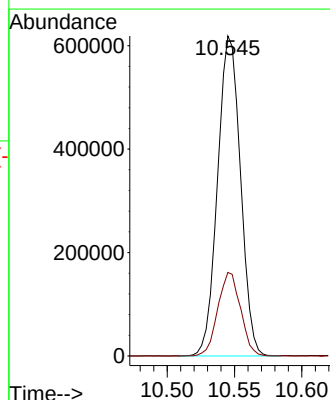
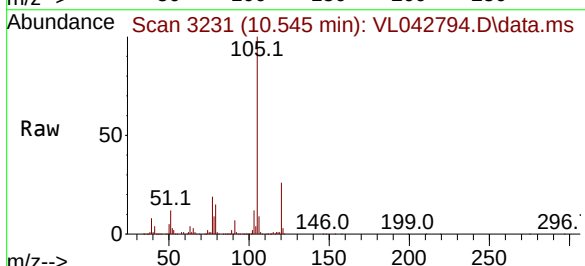
Acq: 31 Jul 2025 13:55

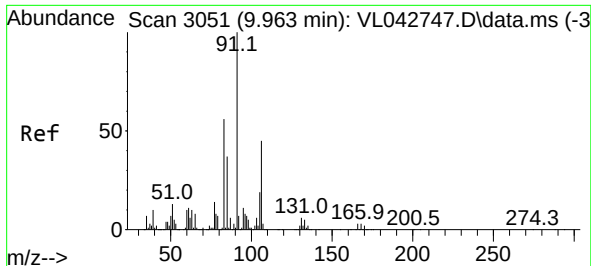
Tgt Ion:105 Resp: 731077

Ion Ratio Lower Upper

105 100

120 25.9 20.5 30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 10.323 ppbv

RT: 9.969 min Scan# 3051

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_1

ClientSampleId :

VL0731ABSD01

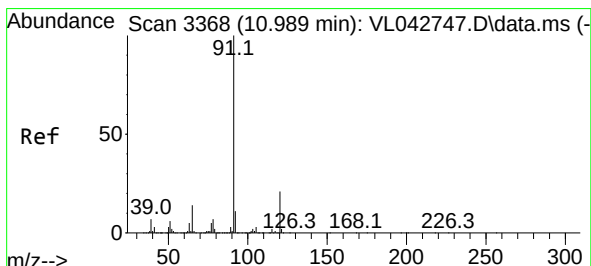
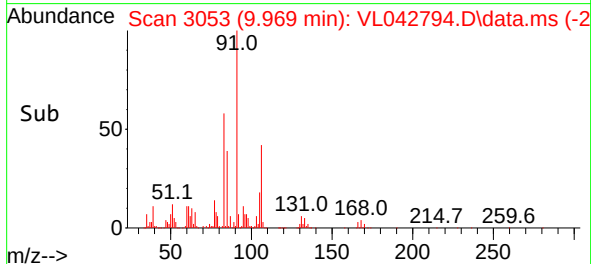
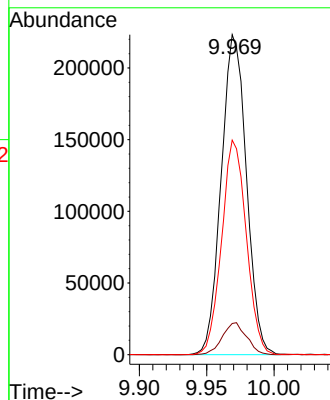
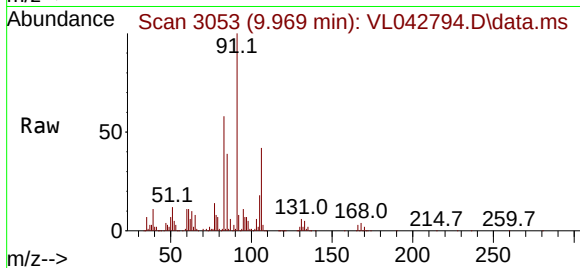
Tgt Ion: 83 Resp: 290577

Ion Ratio Lower Upper

83 100

131 9.6 5.0 15.0

85 65.6 32.6 97.7



#64

n-propylbenzene

Concen: 11.637 ppbv

RT: 10.995 min Scan# 3370

Delta R.T. 0.006 min

Lab File: VL042794.D

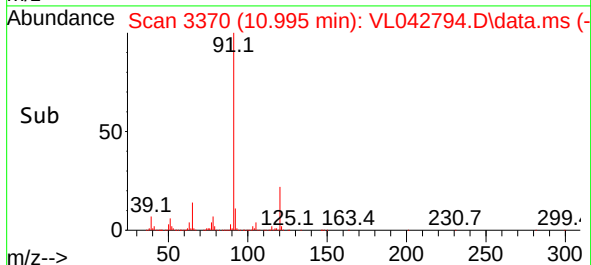
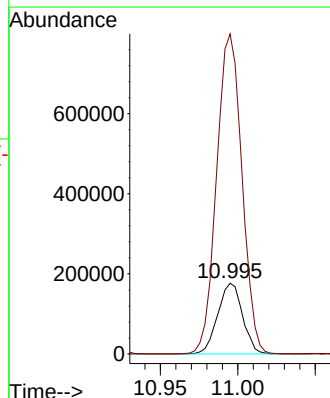
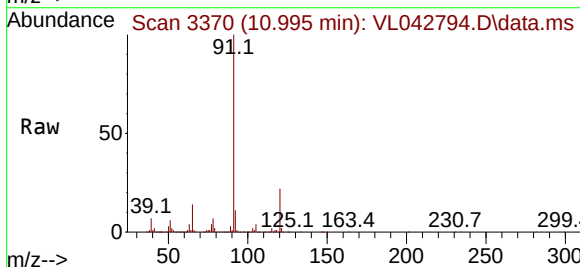
Acq: 31 Jul 2025 13:55

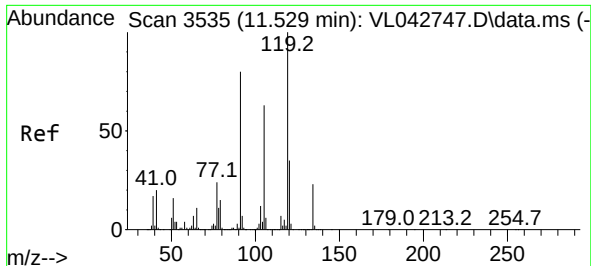
Tgt Ion: 120 Resp: 196210

Ion Ratio Lower Upper

120 100

91 464.6 372.7 559.1

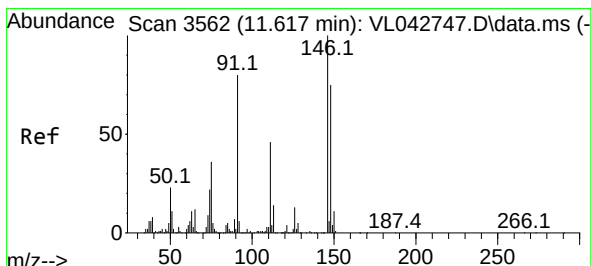
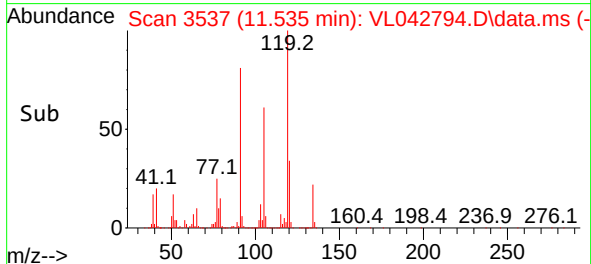
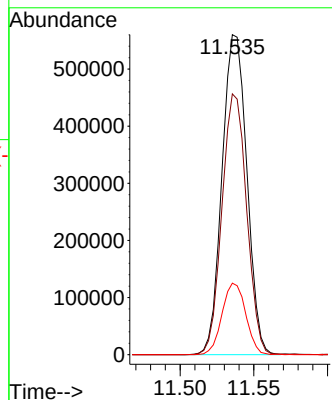
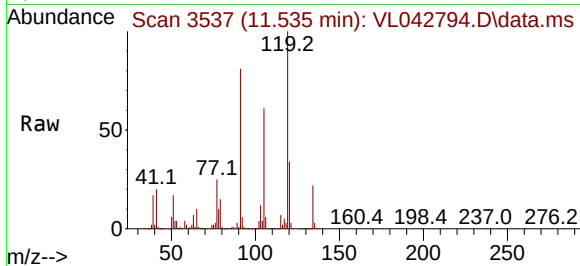




#65
tert-Butylbenzene
Concen: 11.427 ppbv
RT: 11.535 min Scan# 3535
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

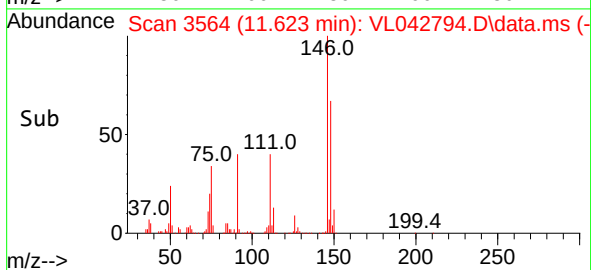
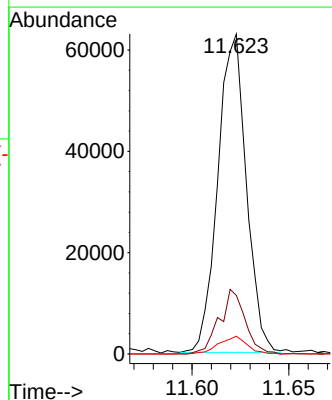
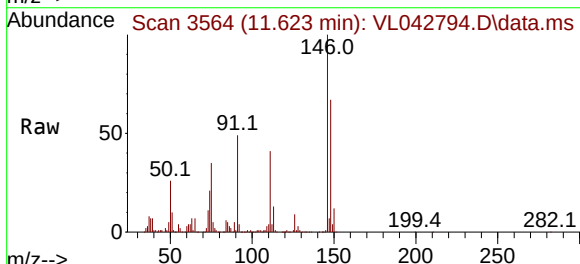
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

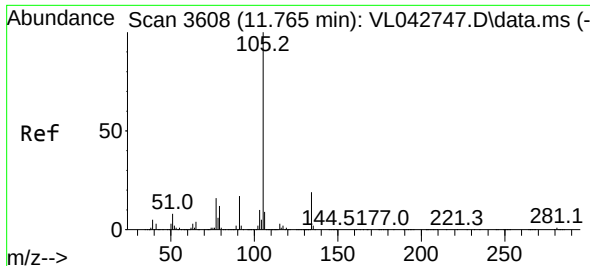
Tgt Ion:119 Resp: 656497
Ion Ratio Lower Upper
119 100
91 81.0 64.0 96.0
134 21.4 17.3 25.9



#66
Benzyl Chloride
Concen: 13.634 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 91 Resp: 64301
Ion Ratio Lower Upper
91 100
126 18.3 14.4 21.6
128 5.6 5.2 7.8

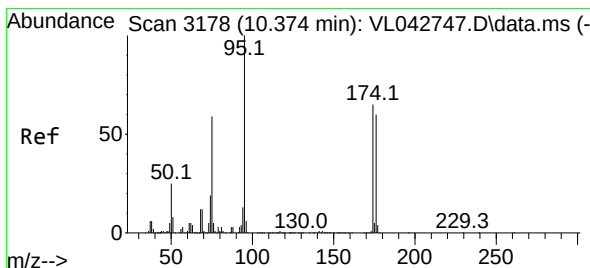
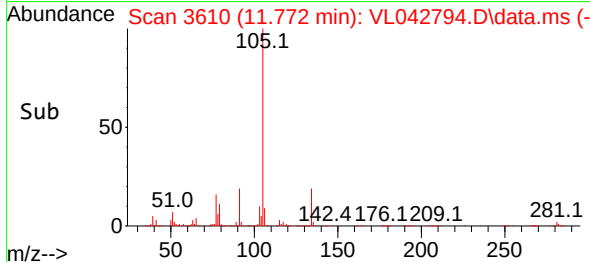
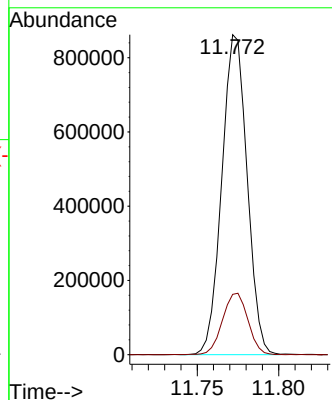
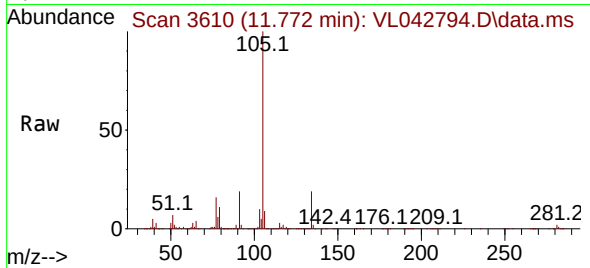




#67
 sec-Butylbenzene
 Concen: 11.374 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.006 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

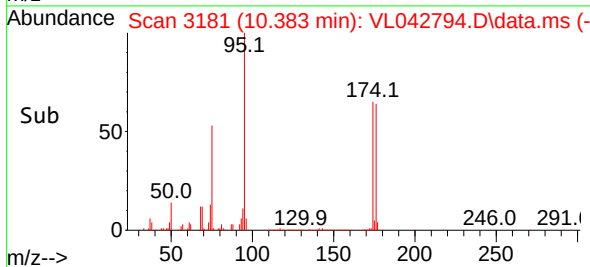
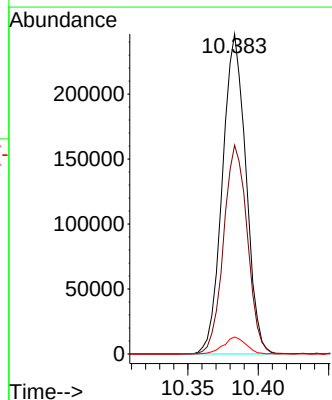
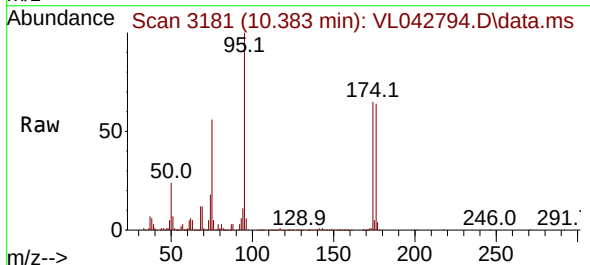
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABSD01

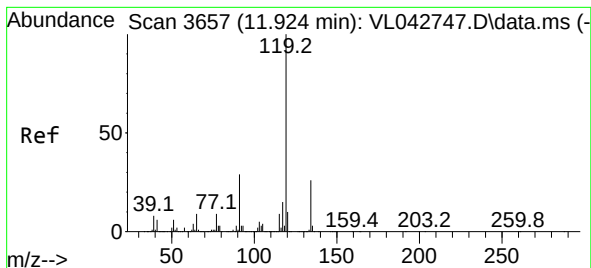
Tgt Ion:105 Resp: 929357
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.386 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. 0.009 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion: 95 Resp: 285966
 Ion Ratio Lower Upper
 95 100
 174 66.1 53.8 80.6
 175 5.1 4.0 6.0

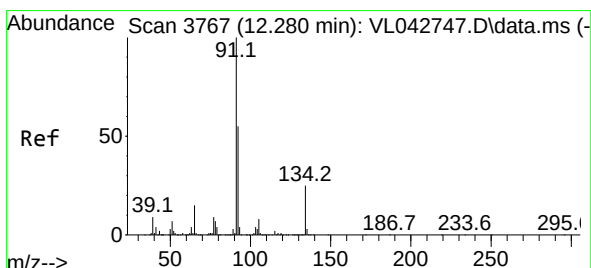
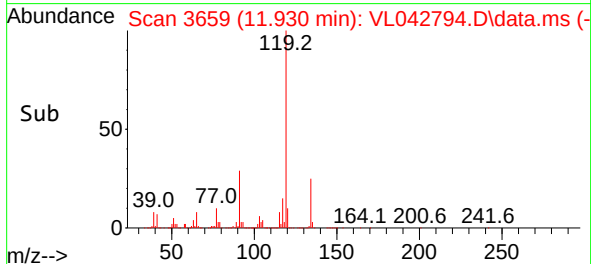
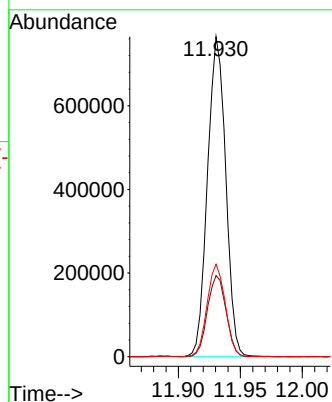
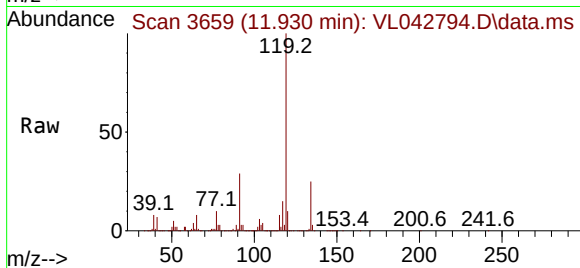




#69
 p-Isopropyltoluene
 Concen: 11.766 ppbv
 RT: 11.930 min Scan# 3659
 Delta R.T. 0.006 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

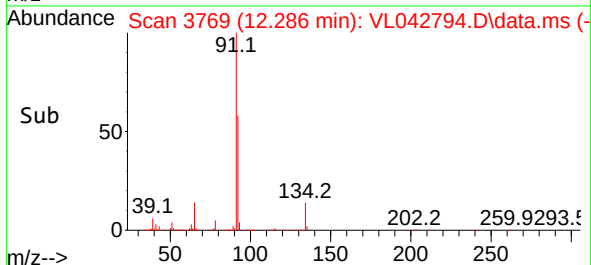
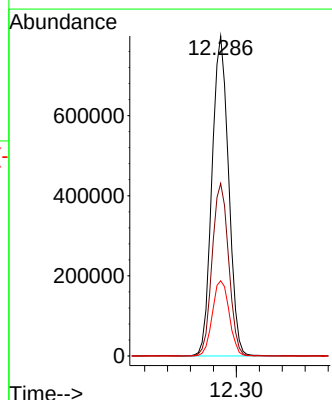
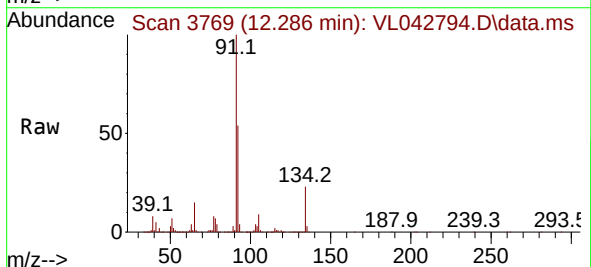
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01

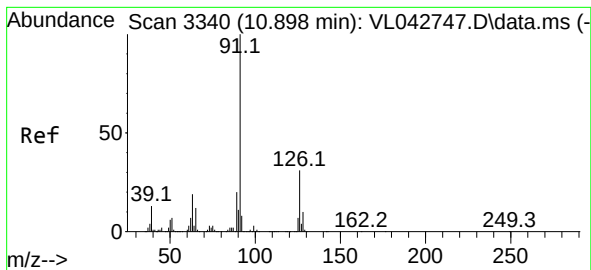
Tgt Ion:119 Resp: 783925
 Ion Ratio Lower Upper
 119 100
 134 26.0 20.6 31.0
 91 28.9 23.2 34.8



#70
 n-Butylbenzene
 Concen: 12.474 ppbv
 RT: 12.286 min Scan# 3769
 Delta R.T. 0.006 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion: 91 Resp: 802758
 Ion Ratio Lower Upper
 91 100
 92 53.6 43.4 65.2
 134 23.9 19.6 29.4

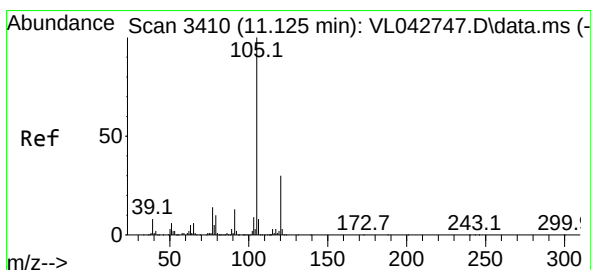
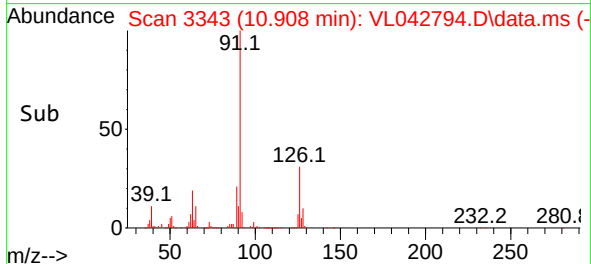
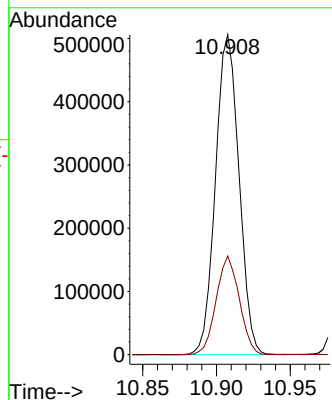
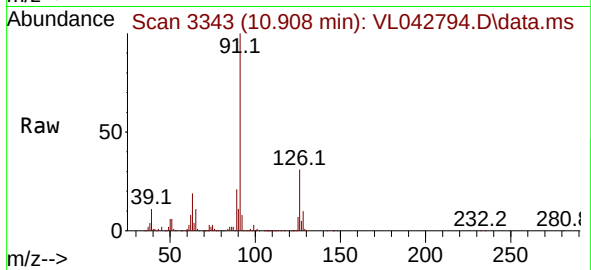




#71
2-Chlorotoluene
Concen: 11.306 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

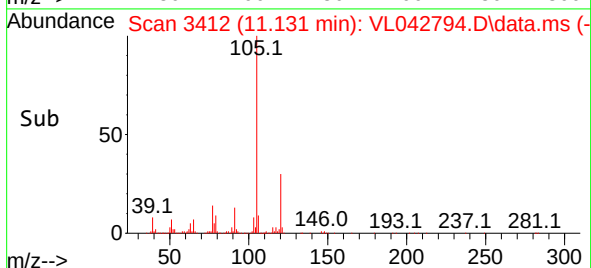
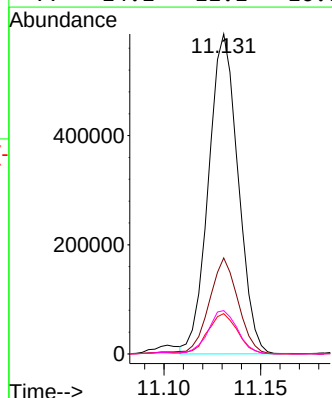
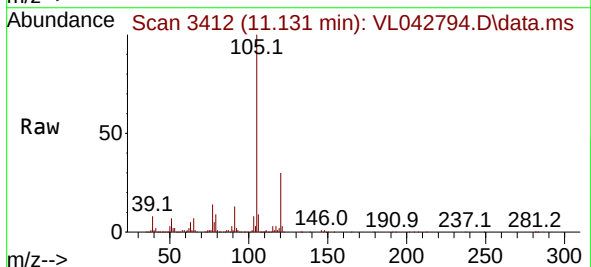
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABSD01

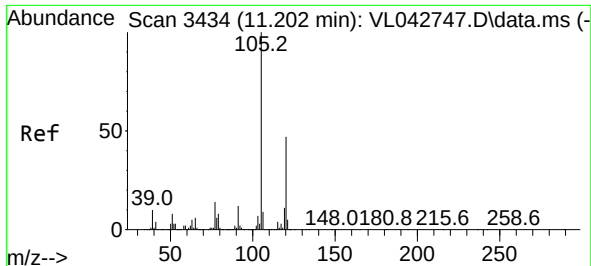
Tgt Ion: 91 Resp: 560672
Ion Ratio Lower Upper
91 100
126 30.4 12.0 48.2



#72
4-Ethyltoluene
Concen: 11.893 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion: 105 Resp: 622768
Ion Ratio Lower Upper
105 100
120 29.9 24.4 36.6
91 13.0 10.6 15.8
77 14.1 11.1 16.7

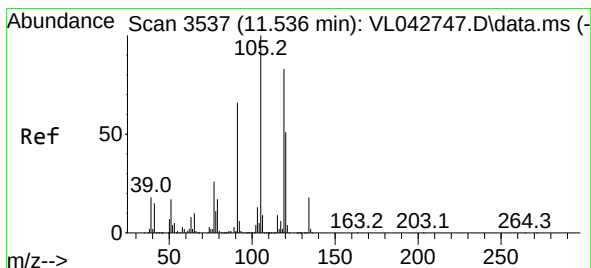
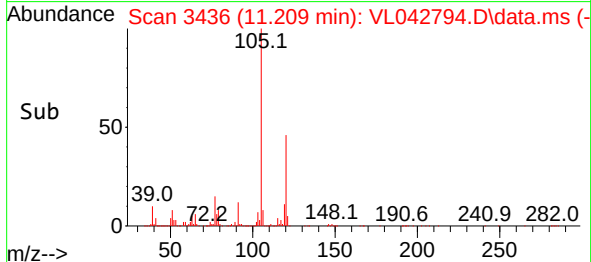
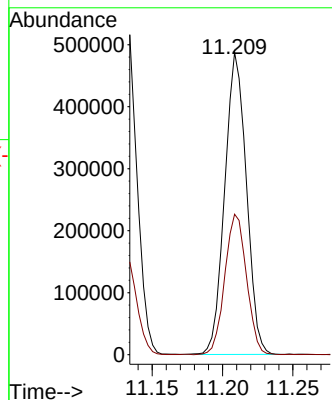
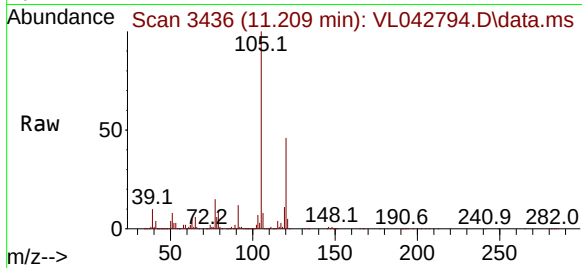




#73
 1,3,5-Trimethylbenzene
 Concen: 12.114 ppbv
 RT: 11.209 min Scan# 34
 Delta R.T. 0.006 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

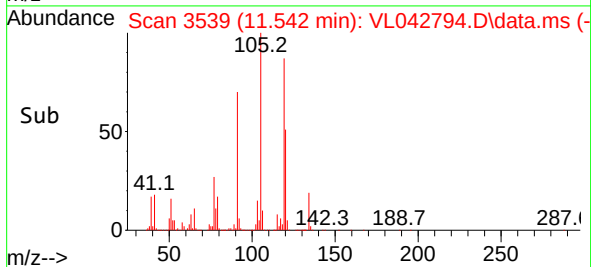
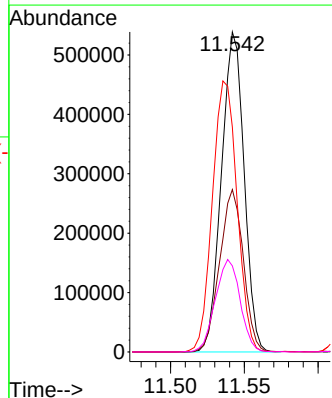
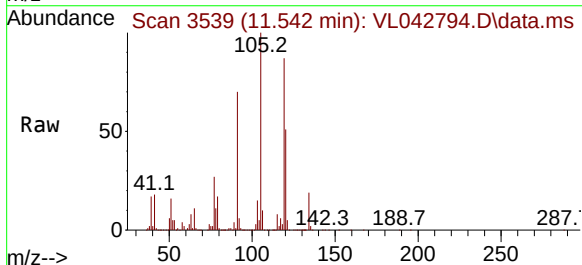
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABSD01

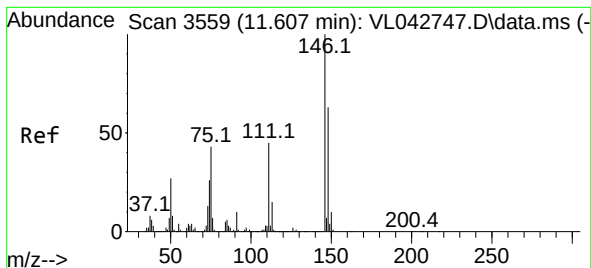
Tgt Ion:105 Resp: 522269
 Ion Ratio Lower Upper
 105 100
 120 46.5 37.8 56.8



#74
 1,2,4-Trimethylbenzene
 Concen: 12.248 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. 0.006 min
 Lab File: VL042794.D
 Acq: 31 Jul 2025 13:55

Tgt Ion:105 Resp: 576097
 Ion Ratio Lower Upper
 105 100
 120 50.7 40.8 61.2
 91 70.2 53.0 79.4
 77 26.9 20.5 30.7





#75

1,3-Dichlorobenzene

Concen: 11.224 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_1

ClientSampleId :

VL0731ABSD01

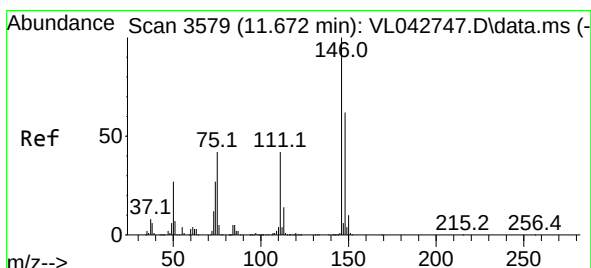
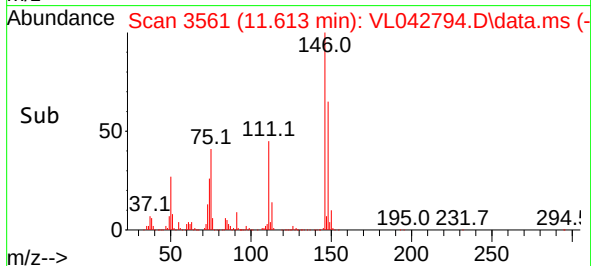
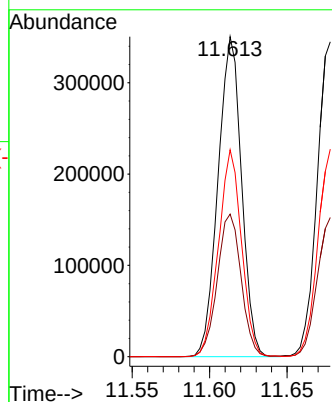
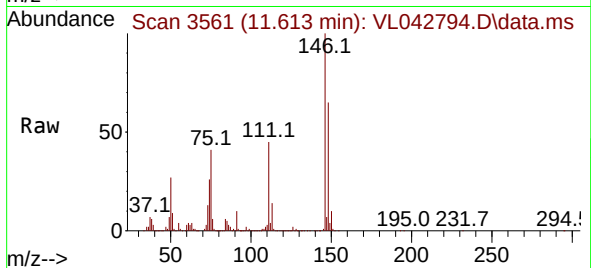
Tgt Ion:146 Resp: 370097

Ion Ratio Lower Upper

146 100

111 45.2 22.7 68.0

148 63.4 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 11.326 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

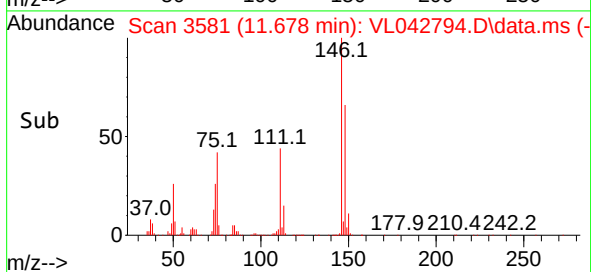
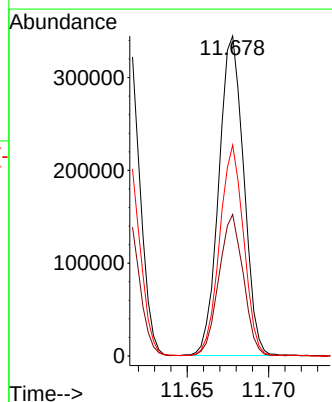
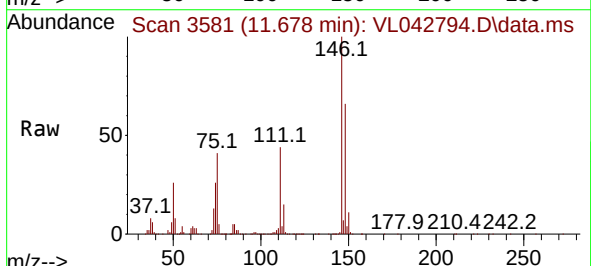
Tgt Ion:146 Resp: 365448

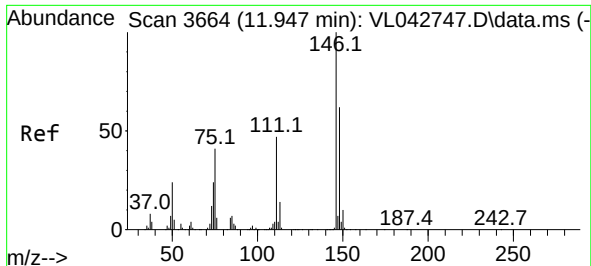
Ion Ratio Lower Upper

146 100

111 43.8 21.4 64.2

148 63.8 32.1 96.3

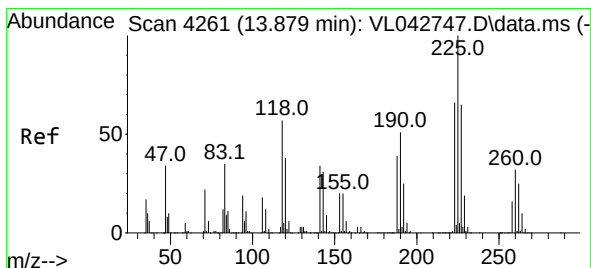
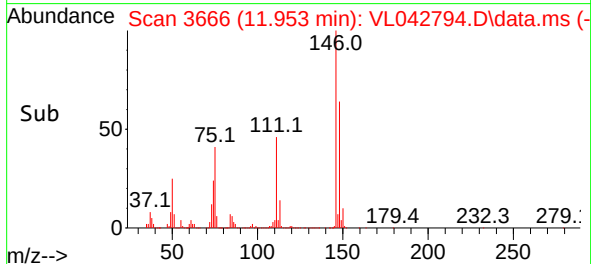
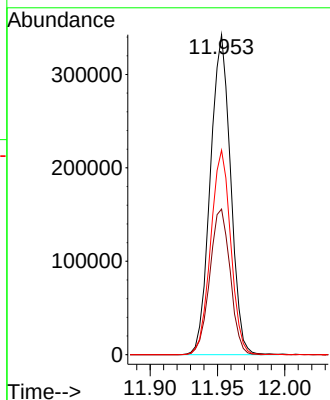
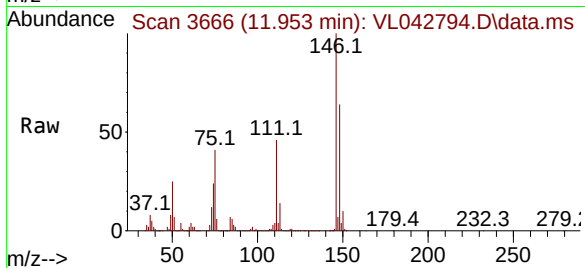




#77
1,2-Dichlorobenzene
Concen: 11.043 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

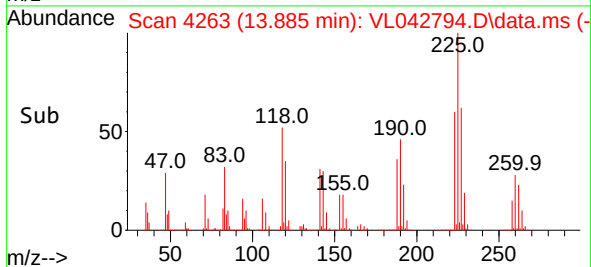
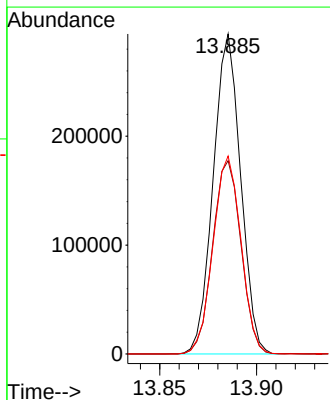
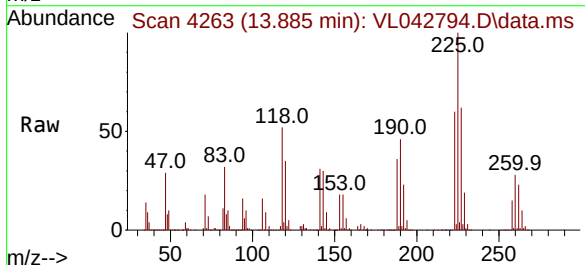
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABSD01

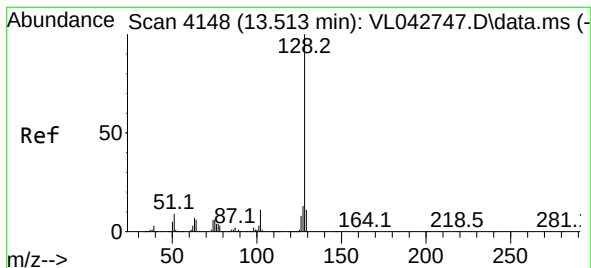
Tgt Ion:146 Resp: 357874
Ion Ratio Lower Upper
146 100
111 46.0 23.7 71.1
148 63.4 32.6 97.7



#78
Hexachloro-1,3-Butadiene
Concen: 9.863 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.006 min
Lab File: VL042794.D
Acq: 31 Jul 2025 13:55

Tgt Ion:225 Resp: 289316
Ion Ratio Lower Upper
225 100
223 62.5 50.7 76.1
227 63.1 50.5 75.7





#79

Naphthalene

Concen: 10.791 ppbv

RT: 13.516 min Scan# 4148

Delta R.T. 0.003 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01

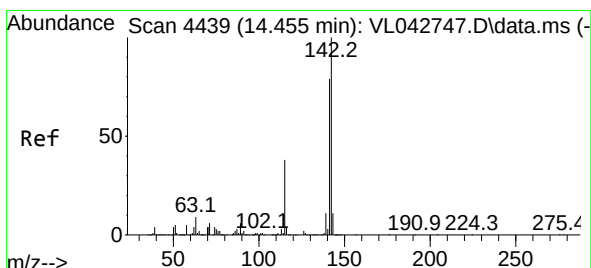
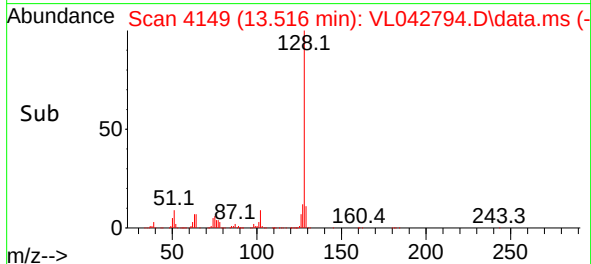
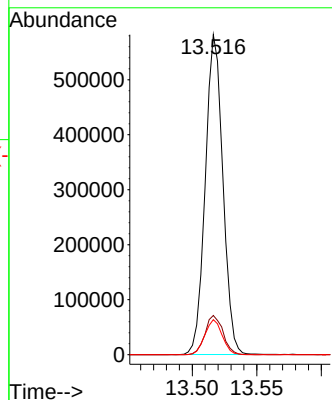
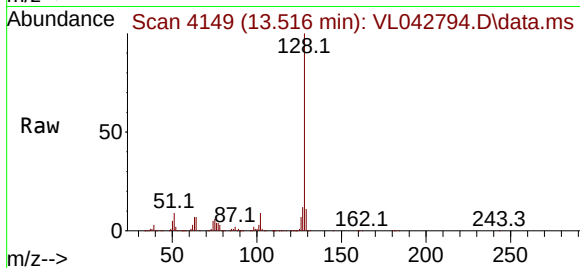
Tgt Ion:128 Resp: 552592

Ion Ratio Lower Upper

128 100

127 12.3 10.5 15.7

129 10.9 8.6 13.0



#80

Naphthalene,2-methyl-

Concen: 8.445 ppbv

RT: 14.461 min Scan# 4441

Delta R.T. 0.006 min

Lab File: VL042794.D

Acq: 31 Jul 2025 13:55

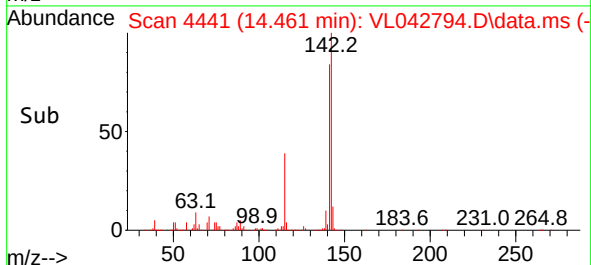
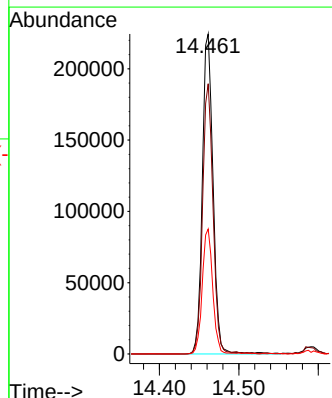
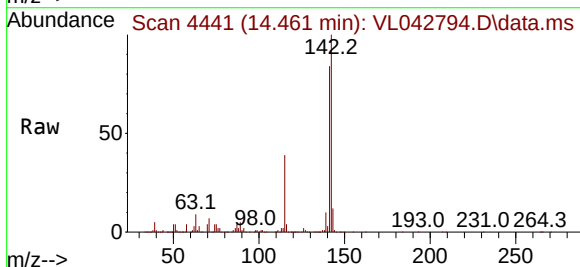
Tgt Ion:142 Resp: 210490

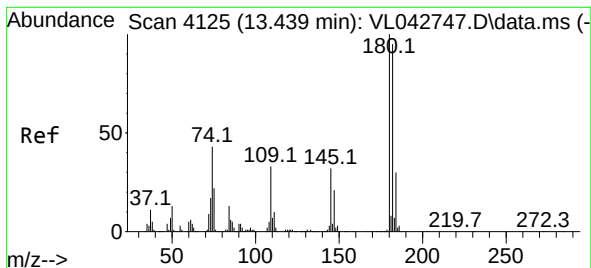
Ion Ratio Lower Upper

142 100

141 83.5 65.8 98.8

115 38.7 31.2 46.8





#81

1,2,4-Trichlorobenzene

Concen: 10.803 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042794.D

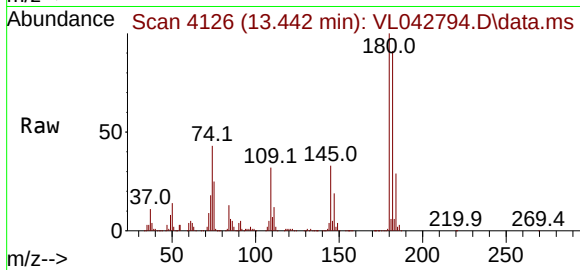
Acq: 31 Jul 2025 13:55

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABSD01



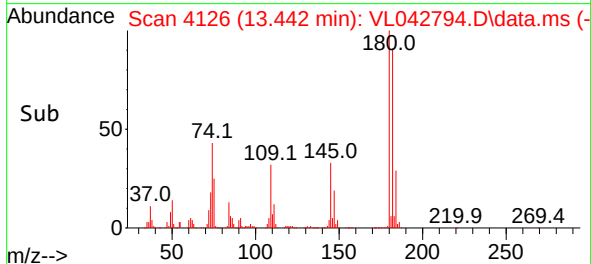
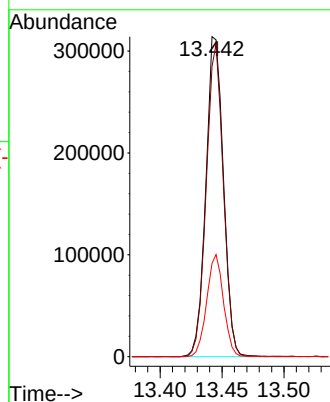
Tgt Ion:180 Resp: 310917

Ion Ratio Lower Upper

180 100

182 94.8 76.2 114.2

184 30.5 24.8 37.2



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

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 26 06:05:16 2022
 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

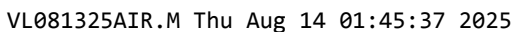
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

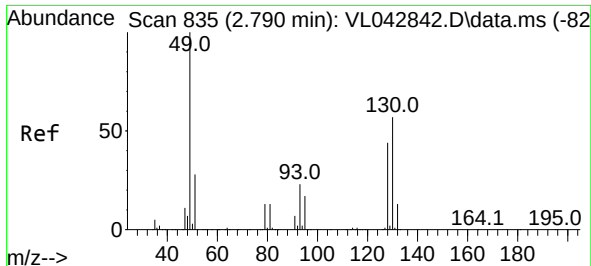
Quant Time: Aug 14 01:45:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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	539072	10.505	ppbv #	100
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

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

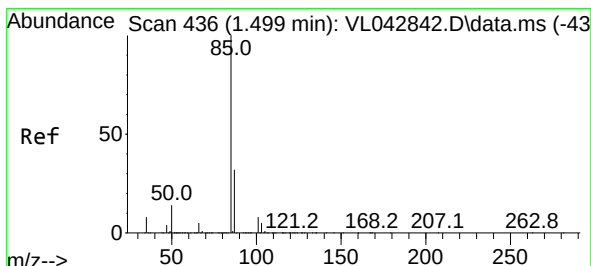
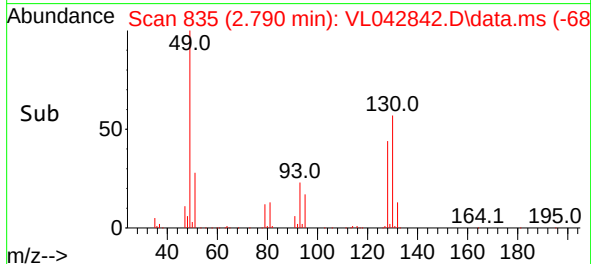
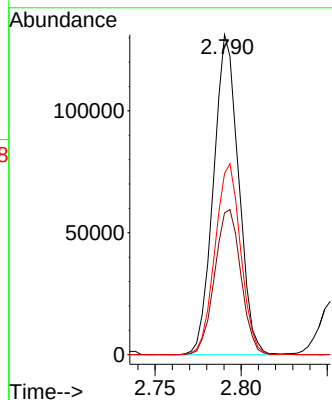
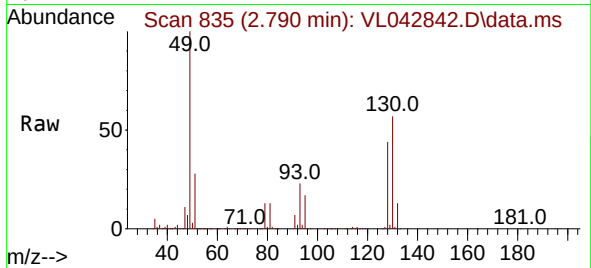




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 835
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

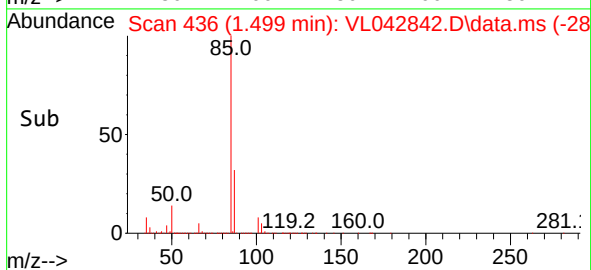
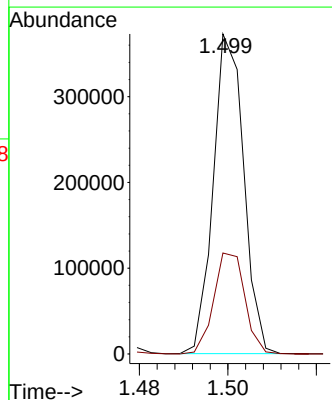
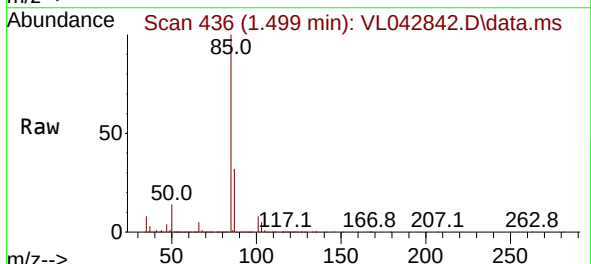
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

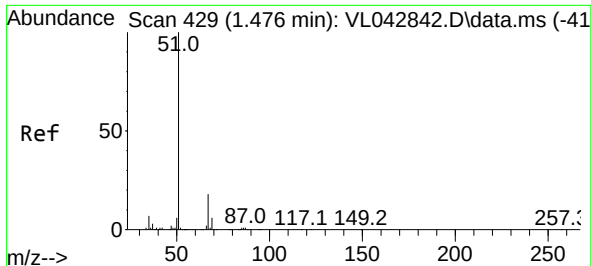
Tgt Ion: 49 Resp: 133104
 Ion Ratio Lower Upper
 49 100
 128 47.4 23.7 71.1
 130 61.1 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 9.166 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion: 85 Resp: 178799
 Ion Ratio Lower Upper
 85 100
 87 31.6 25.3 37.9

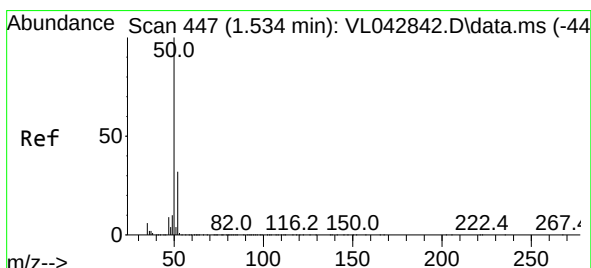
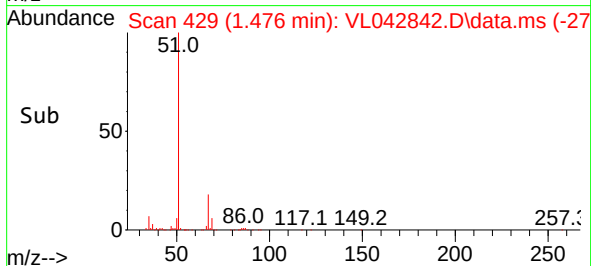
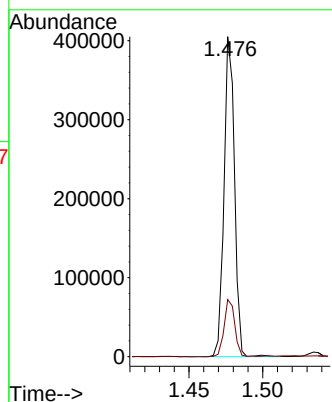
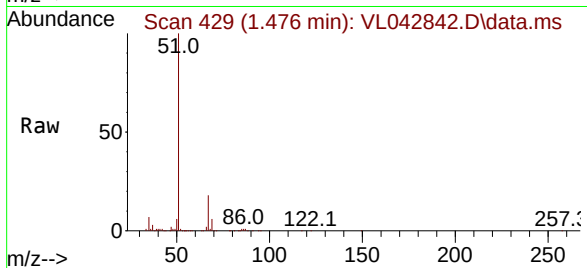




#3
Chlorodifluoromethane
Concen: 9.306 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

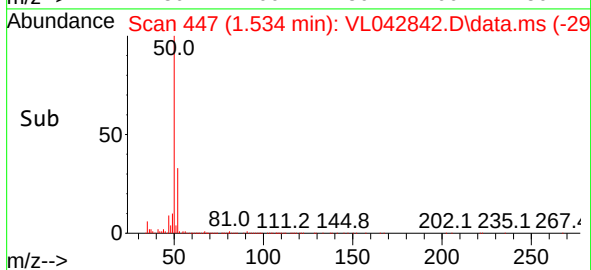
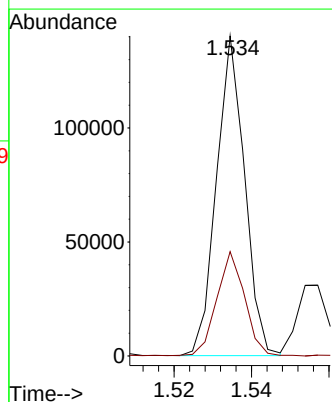
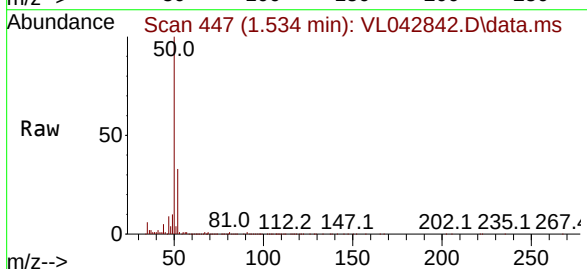
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

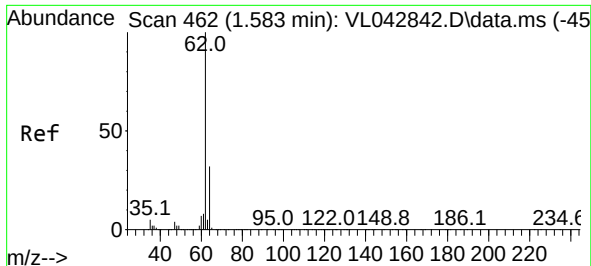
Tgt Ion: 51 Resp: 200866
Ion Ratio Lower Upper
51 100
67 18.6 14.9 22.3



#4
Chloromethane
Concen: 9.013 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 50 Resp: 70952
Ion Ratio Lower Upper
50 100
52 32.4 25.9 38.9

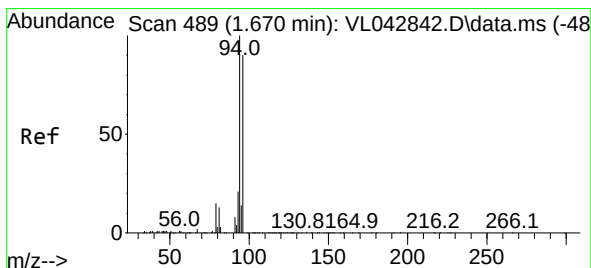
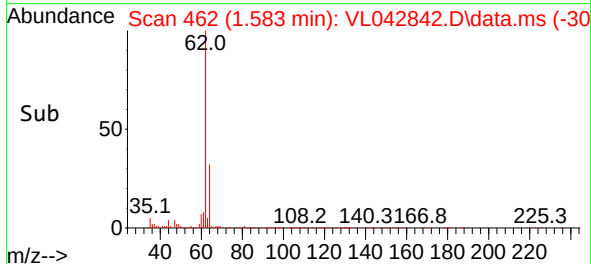
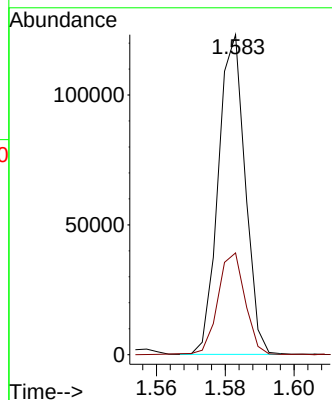
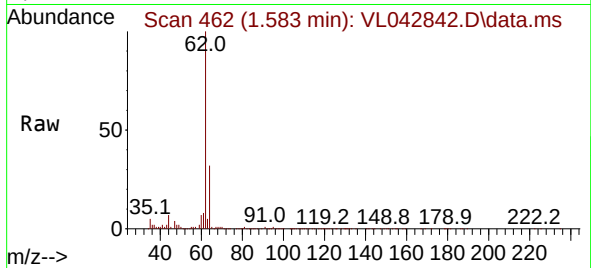




#5
 Vinyl Chloride
 Concen: 8.612 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

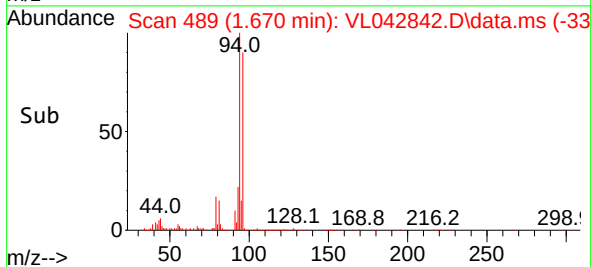
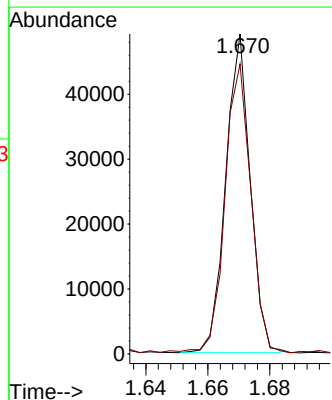
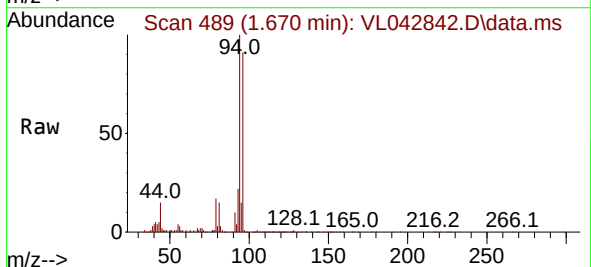
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

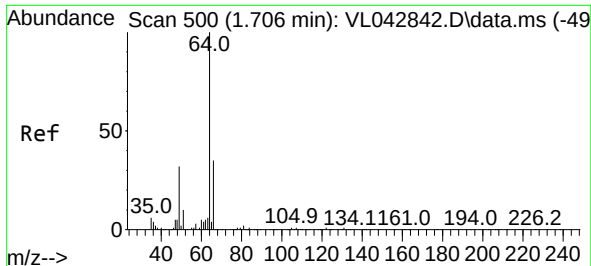
Tgt Ion: 62 Resp: 66768
 Ion Ratio Lower Upper
 62 100
 64 31.8 25.4 38.2



#6
 Bromomethane
 Concen: 8.698 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion: 94 Resp: 26964
 Ion Ratio Lower Upper
 94 100
 96 90.1 72.1 108.1

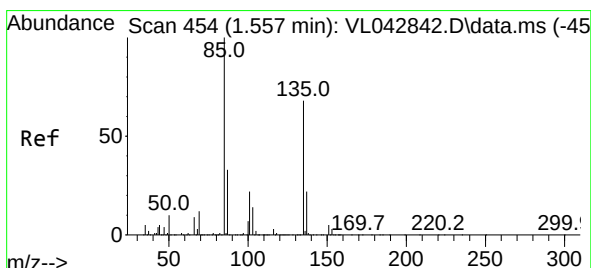
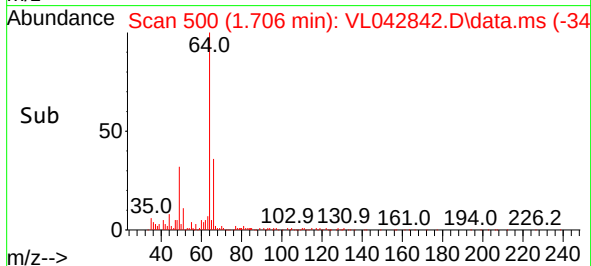
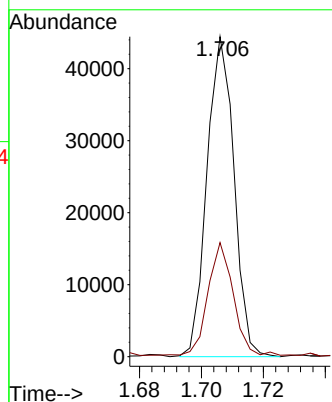
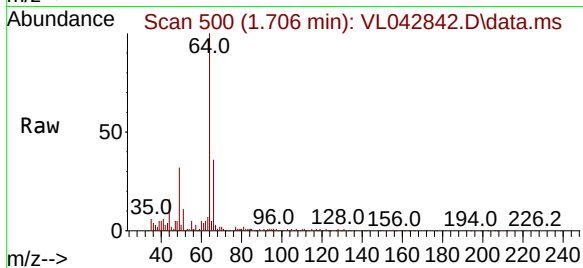




#7
Chloroethane
Concen: 8.879 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

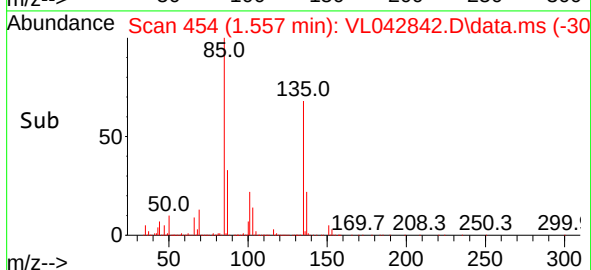
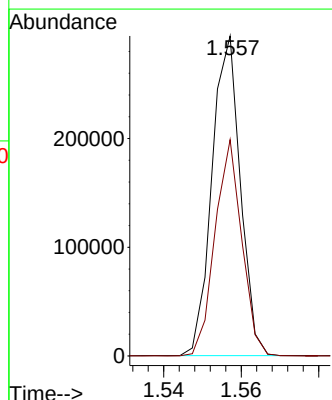
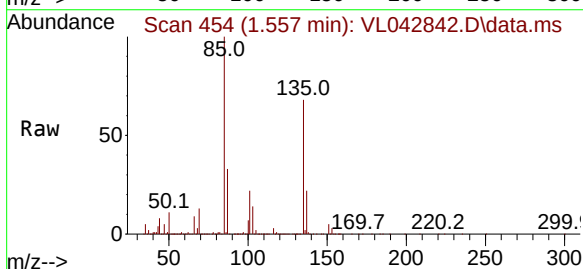
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

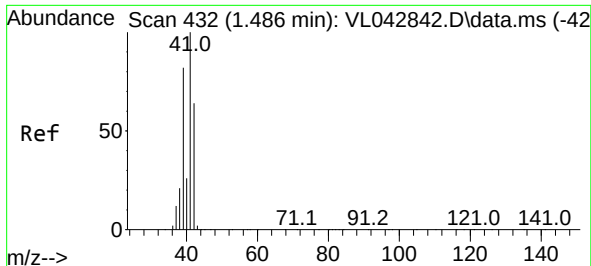
Tgt Ion: 64 Resp: 26884
Ion Ratio Lower Upper
64 100
66 35.7 28.6 42.8



#8
Dichlorotetrafluoroethane
Concen: 9.355 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 85 Resp: 149341
Ion Ratio Lower Upper
85 100
135 64.0 51.2 76.8





#9

Propene

Concen: 9.380 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

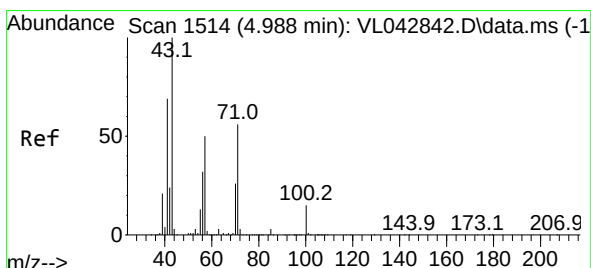
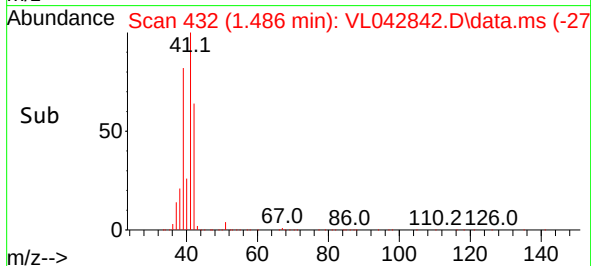
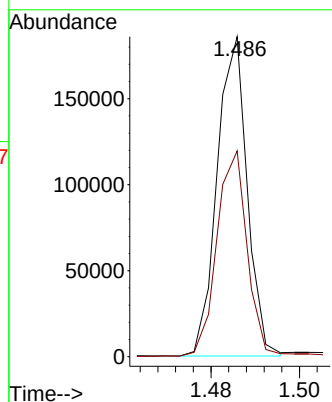
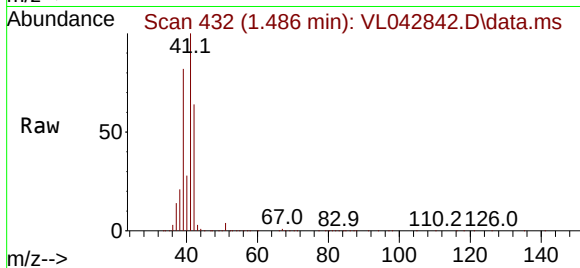
VSTDICCC010

Tgt Ion: 41 Resp: 87352

Ion Ratio Lower Upper

41 100

42 66.2 53.0 79.4



#10

Heptane

Concen: 9.186 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.000 min

Lab File: VL042842.D

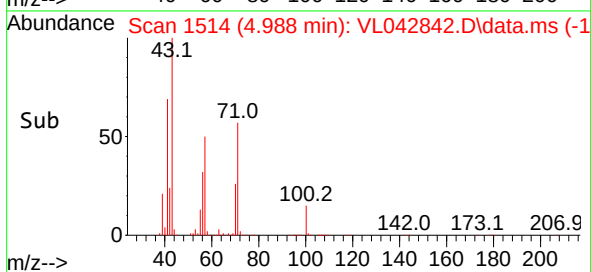
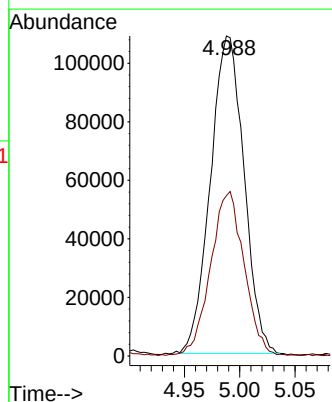
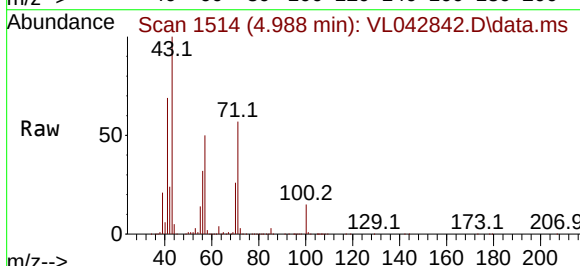
Acq: 13 Aug 2025 08:30

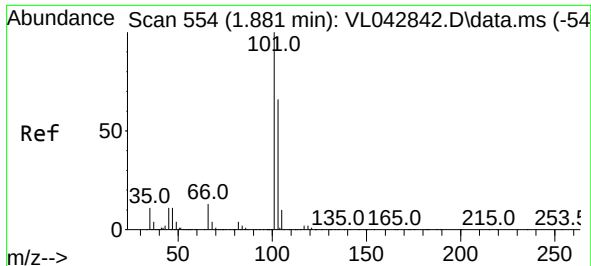
Tgt Ion: 43 Resp: 228679

Ion Ratio Lower Upper

43 100

57 51.7 41.4 62.0

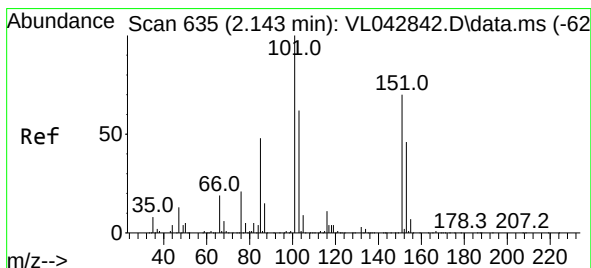
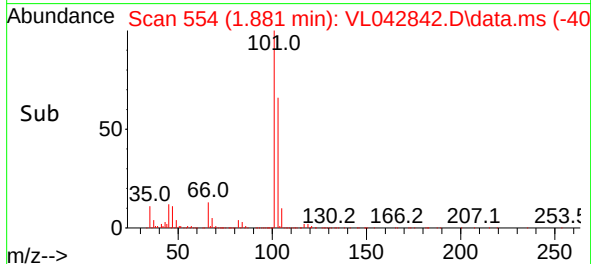
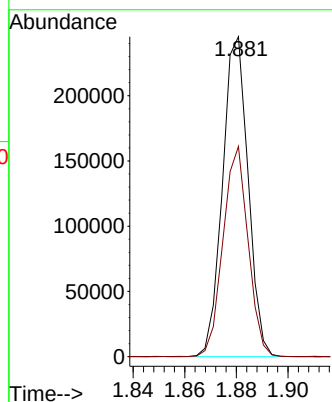
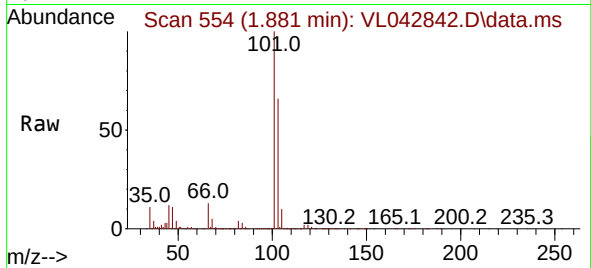




#11
 Trichlorofluoromethane
 Concen: 8.789 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

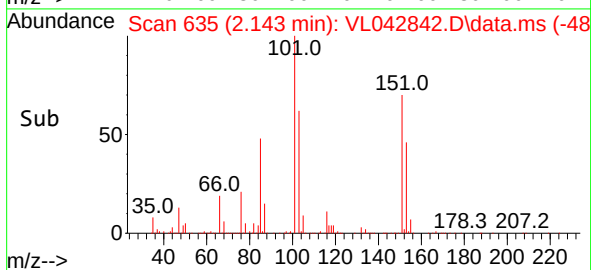
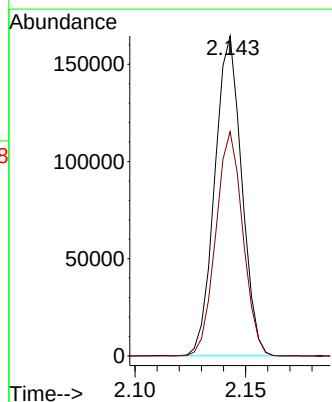
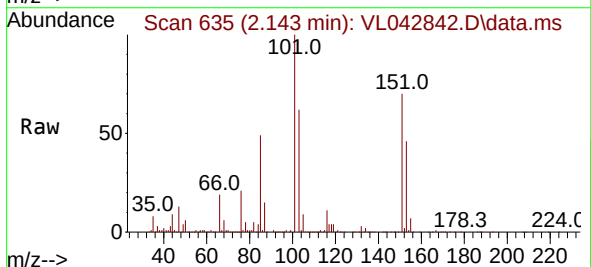
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

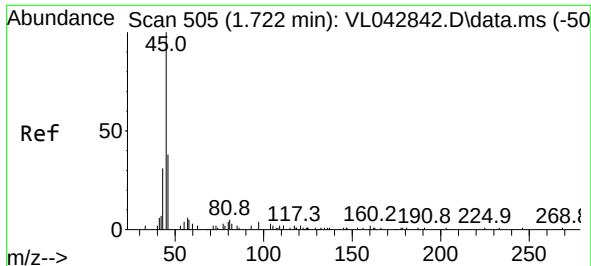
Tgt Ion:101 Resp: 169157
 Ion Ratio Lower Upper
 101 100
 103 65.6 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.083 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion:101 Resp: 139340
 Ion Ratio Lower Upper
 101 100
 151 70.5 56.4 84.6

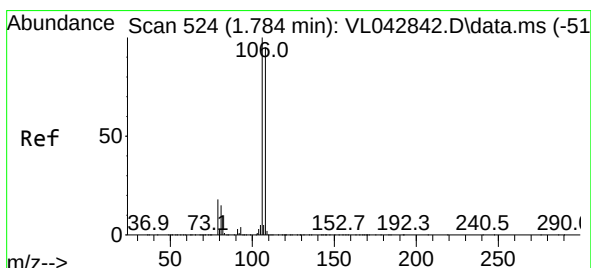
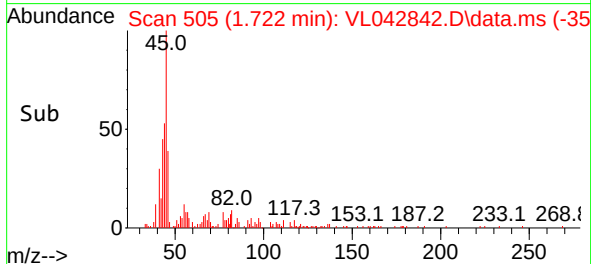
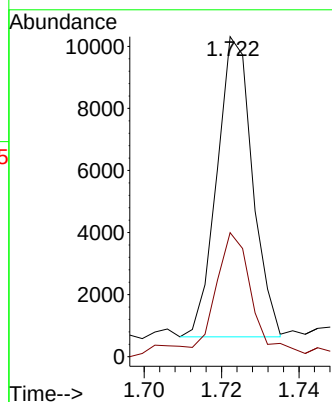
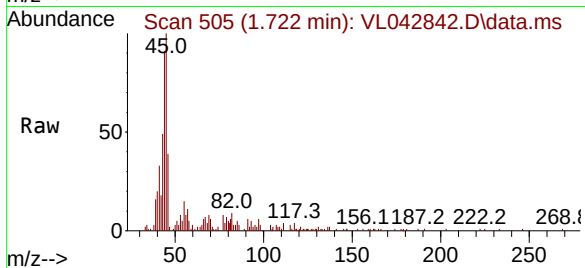




#13
Ethanol
Concen: 6.690 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

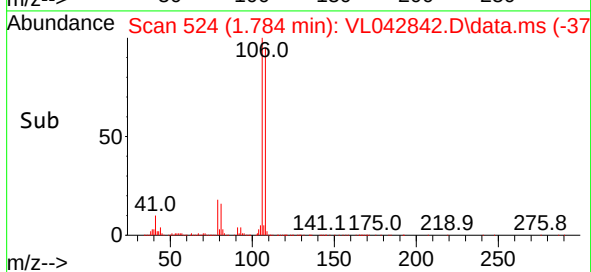
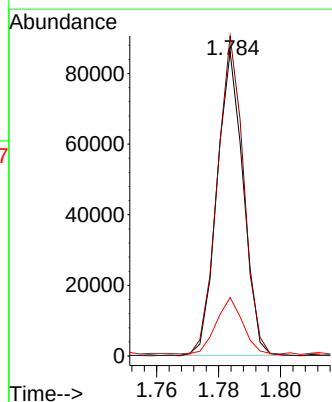
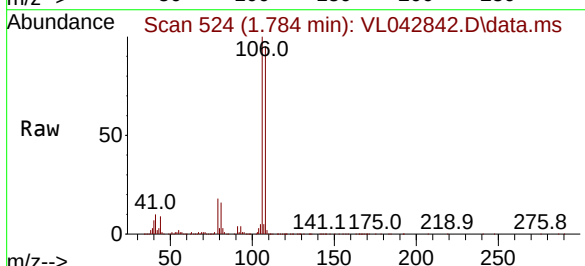
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

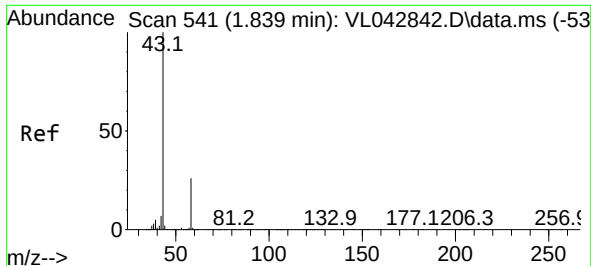
Tgt Ion: 45 Resp: 6172
Ion Ratio Lower Upper
45 100
46 43.7 17.5 69.9



#14
Bromoethene
Concen: 9.135 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 108 Resp: 50730
Ion Ratio Lower Upper
108 100
106 106.4 85.1 127.7
79 20.4 16.3 24.5

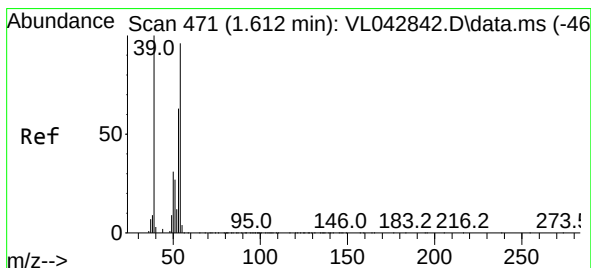
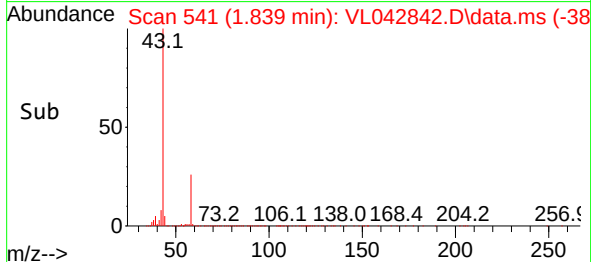
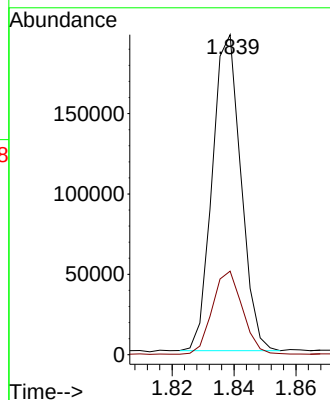
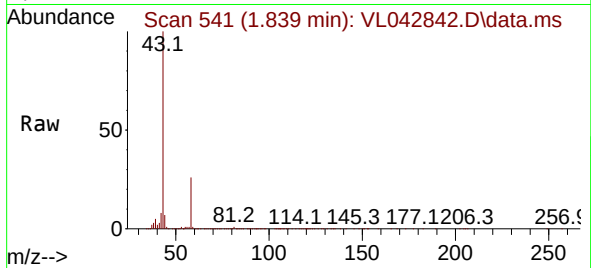




#15
Acetone
Concen: 7.180 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

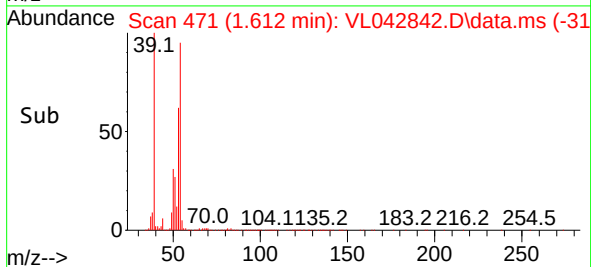
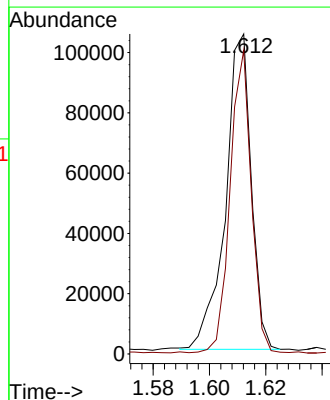
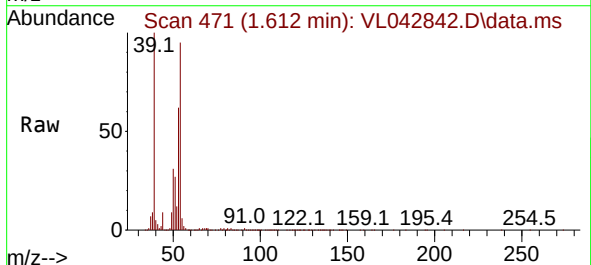
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

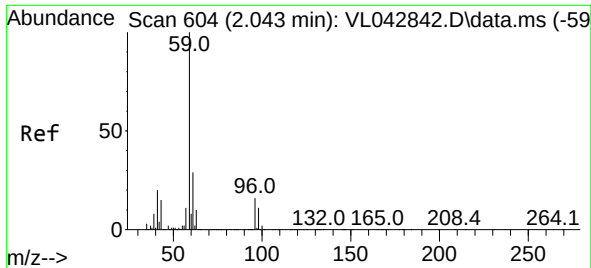
Tgt Ion: 43 Resp: 126419
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6



#16
1,3-Butadiene
Concen: 8.343 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 39 Resp: 66595
Ion Ratio Lower Upper
39 100
54 79.5 63.6 95.4





#17

tert-Butyl alcohol

Concen: 8.741 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_1

ClientSampleId :

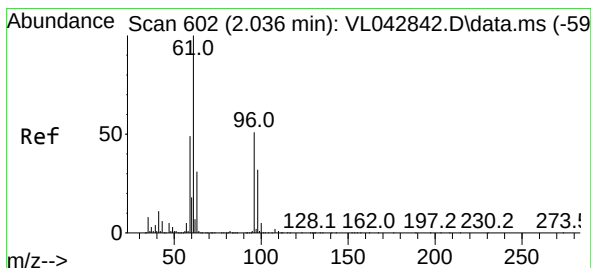
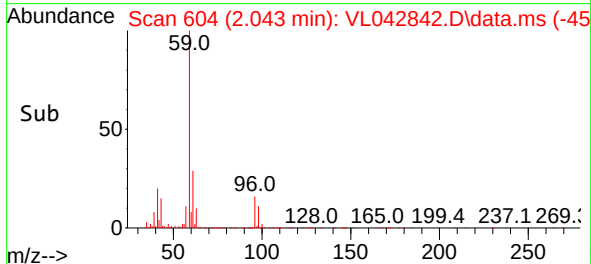
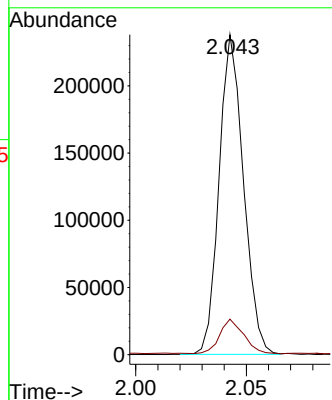
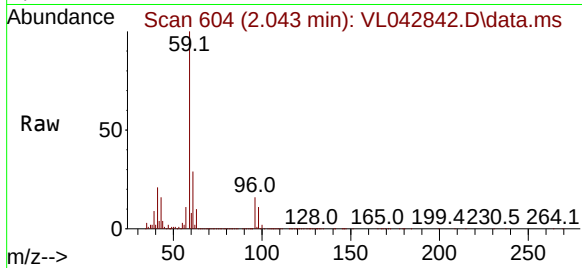
VSTDICCC010

Tgt Ion: 59 Resp: 182511

Ion Ratio Lower Upper

59 100

57 11.2 9.0 13.4



#18

1,1-Dichloroethene

Concen: 9.252 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

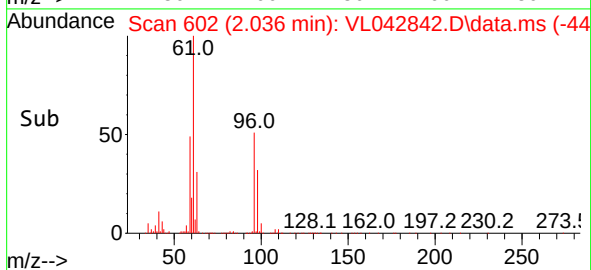
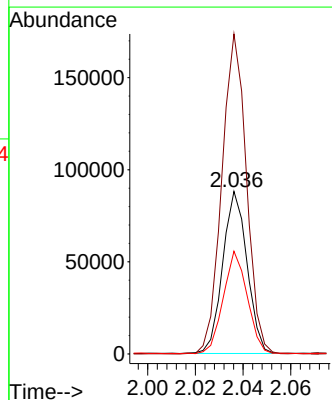
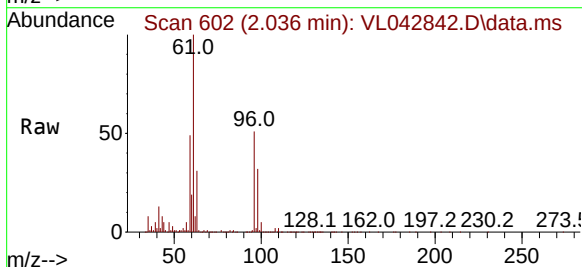
Tgt Ion: 96 Resp: 62397

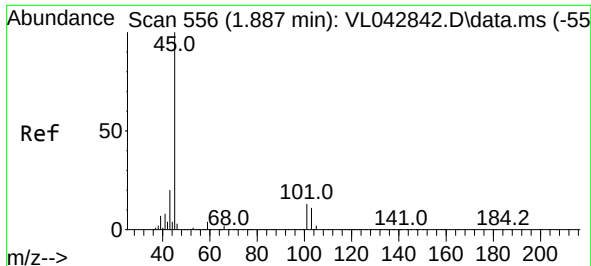
Ion Ratio Lower Upper

96 100

61 197.8 158.2 237.4

98 63.3 50.6 76.0

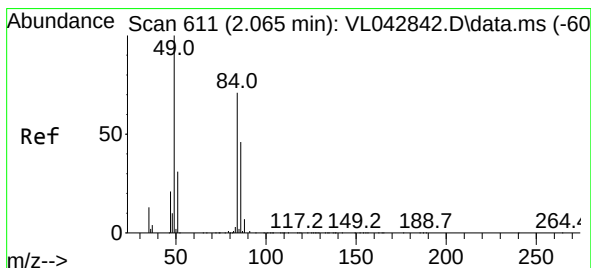
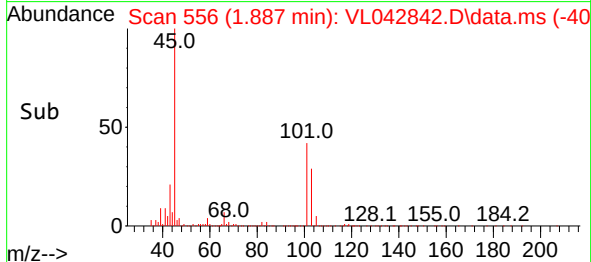
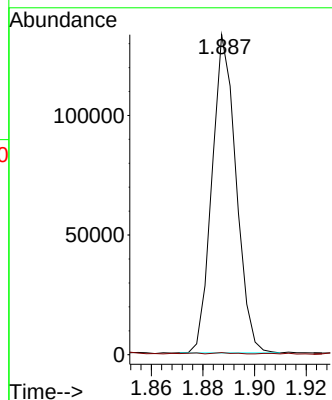
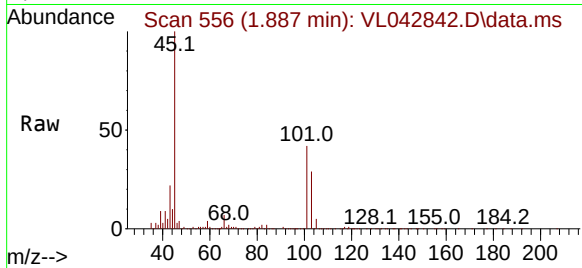




#19
Isopropyl Alcohol
Concen: 8.213 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

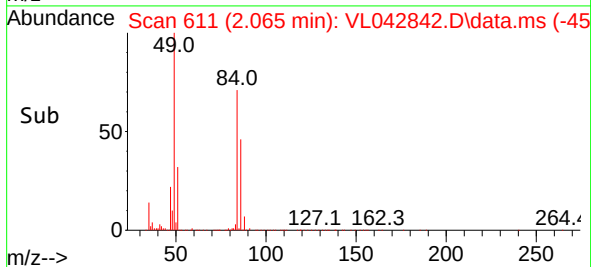
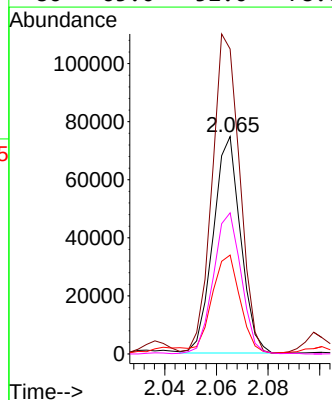
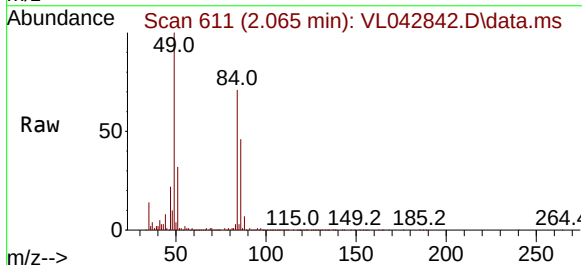
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

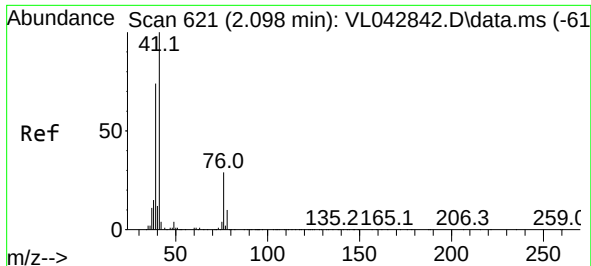
Tgt Ion: 45 Resp: 86367
Ion Ratio Lower Upper
45 100
58 40.9 32.7 49.1



#20
Methylene Chloride
Concen: 7.471 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 84 Resp: 55107
Ion Ratio Lower Upper
84 100
49 140.4 112.3 168.5
51 45.0 36.0 54.0
86 65.0 52.0 78.0





#21

Allyl Chloride

Concen: 9.093 ppbv

RT: 2.098 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

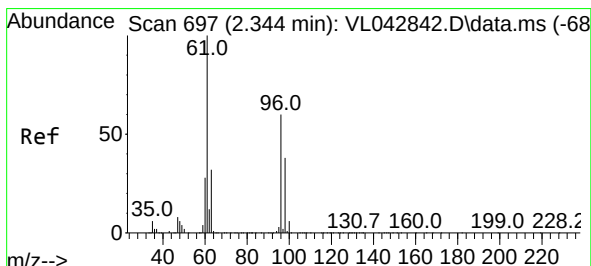
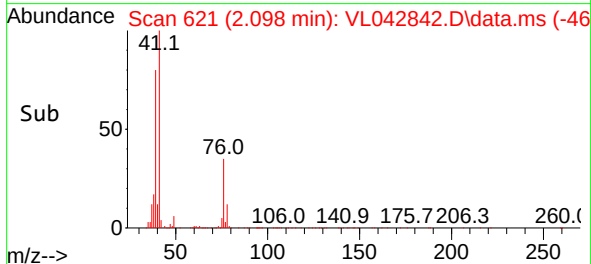
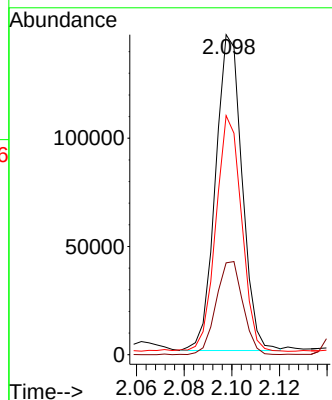
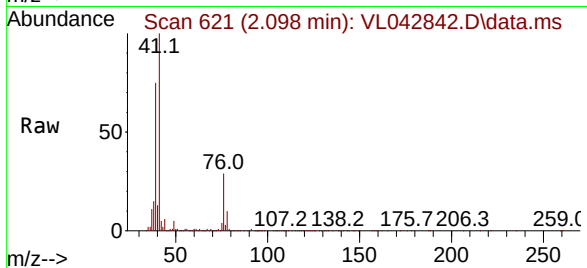
Tgt Ion: 41 Resp: 113105

Ion Ratio Lower Upper

41 100

76 29.9 23.9 35.9

39 72.2 57.8 86.6



#22

trans-1,2-Dichloroethene

Concen: 9.482 ppbv

RT: 2.344 min Scan# 697

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

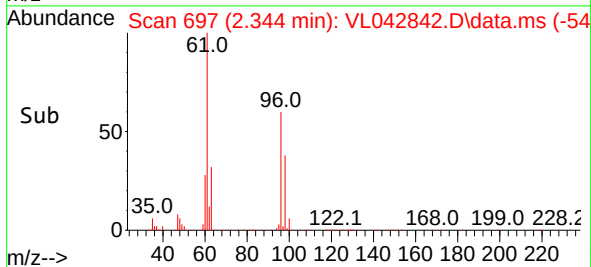
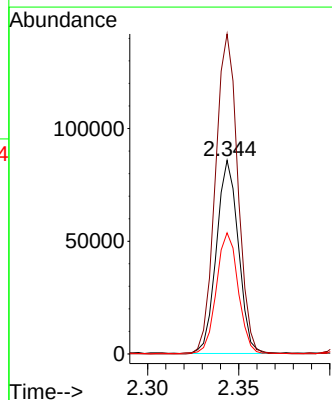
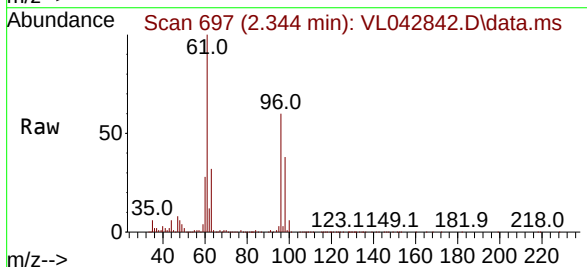
Tgt Ion: 96 Resp: 71518

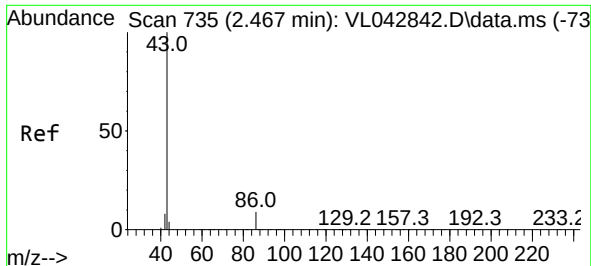
Ion Ratio Lower Upper

96 100

61 165.8 132.6 199.0

98 62.5 50.0 75.0



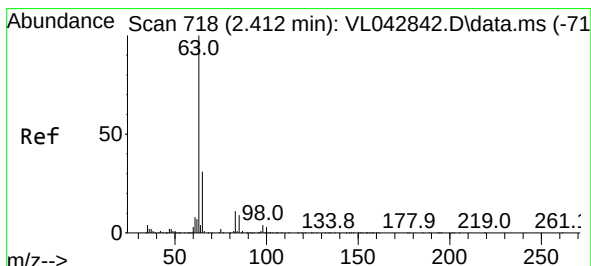
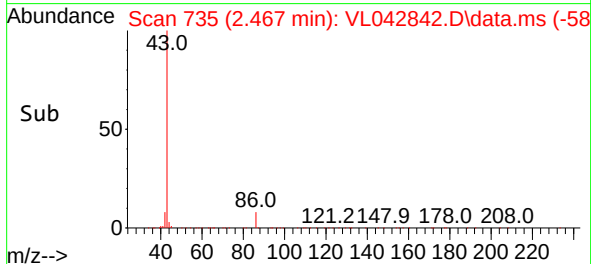
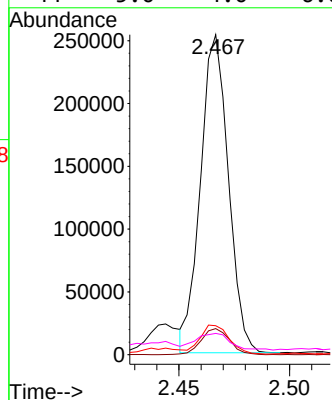
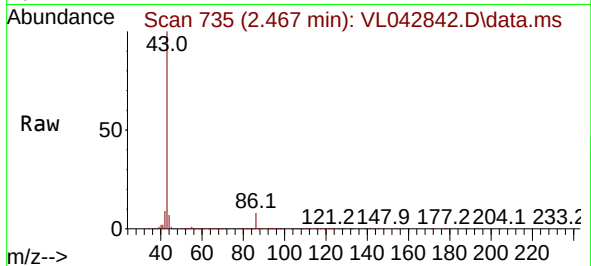


#23
 Vinyl Acetate
 Concen: 9.558 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 43 Resp: 221395

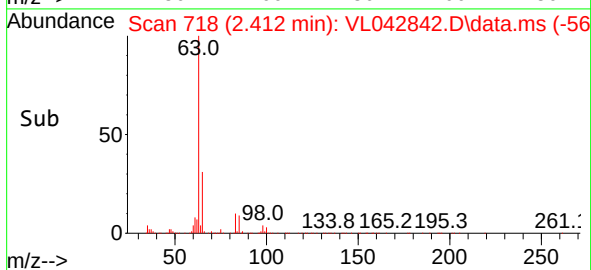
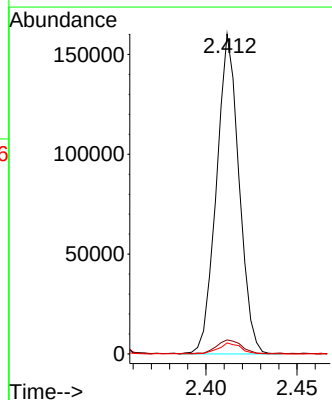
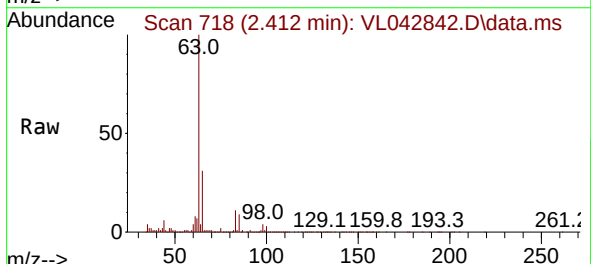
Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8
42	8.8	7.0	10.6
44	5.0	4.0	6.0

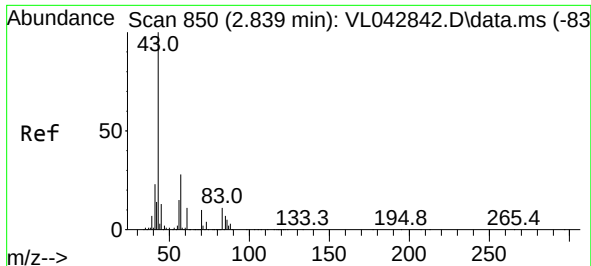


#24
 1,1-Dichloroethane
 Concen: 8.885 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion: 63 Resp: 138444

Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.1	6.5
100	3.4	1.7	5.1

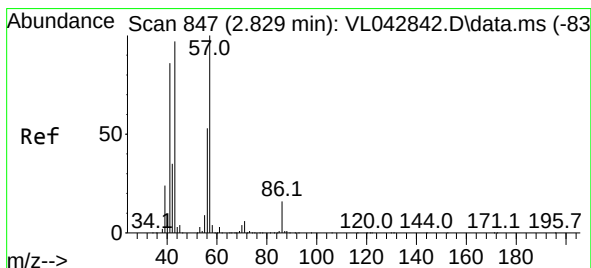
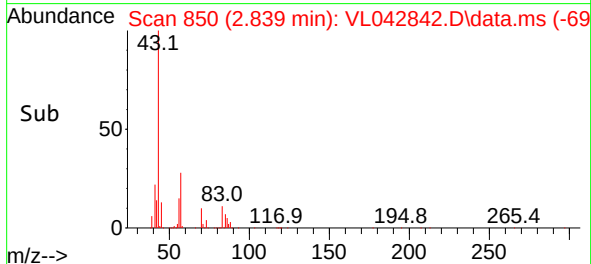
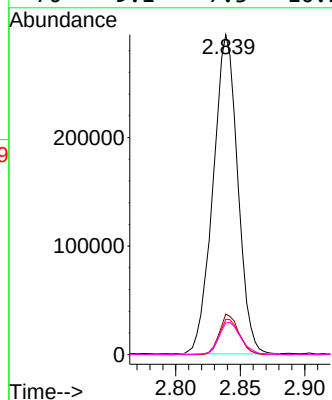
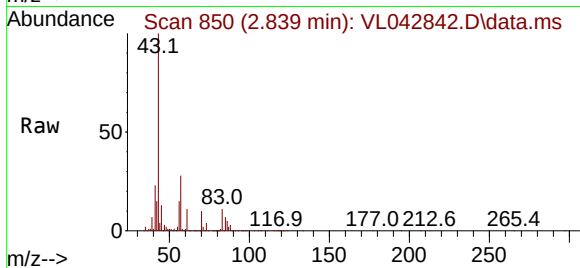




#25
Ethyl Acetate
Concen: 9.159 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

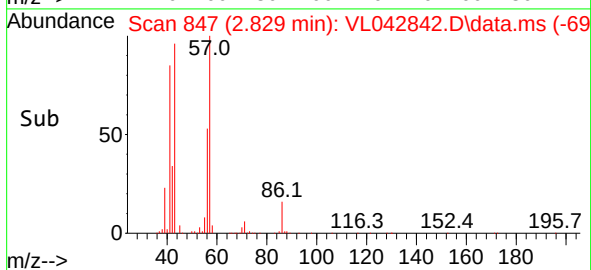
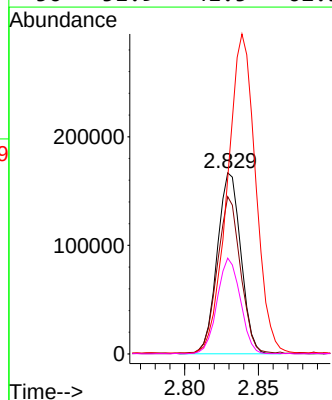
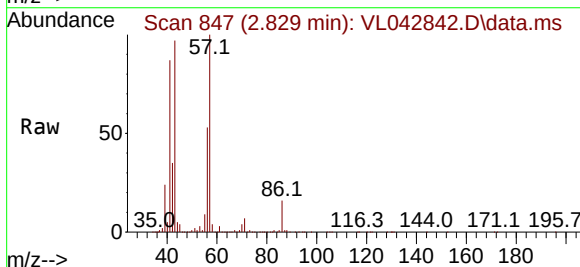
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

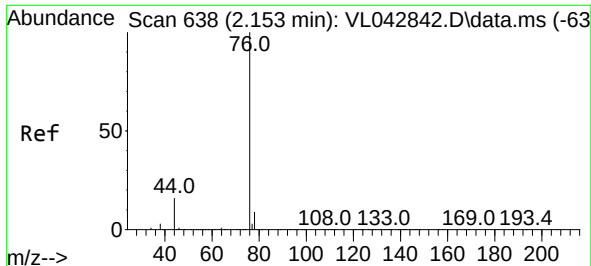
Tgt Ion:	43	Resp:	390295
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	9.3	7.4	11.2
70	9.1	7.3	10.9



#26
Hexane
Concen: 9.420 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:	57	Resp:	185288
Ion	Ratio	Lower	Upper
57	100		
41	85.8	68.6	103.0
43	210.6	168.5	252.7
56	51.9	41.5	62.3

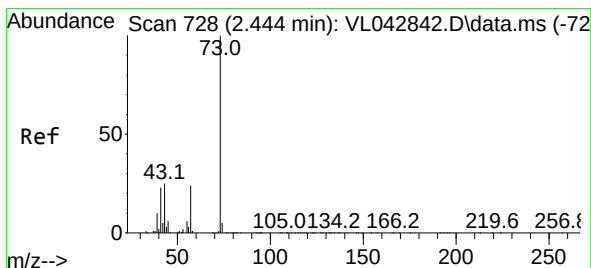
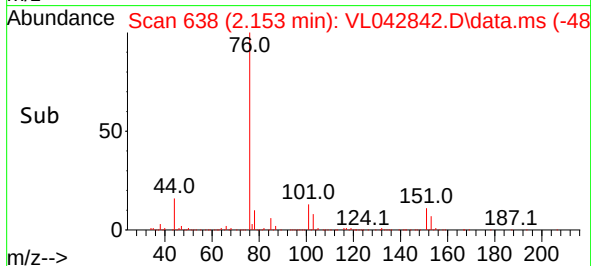
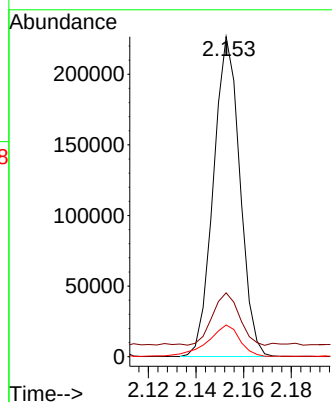
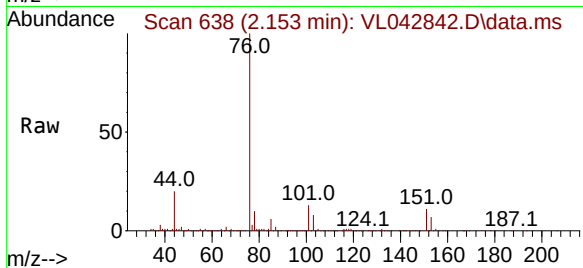




#27
Carbon Disulfide
Concen: 9.138 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

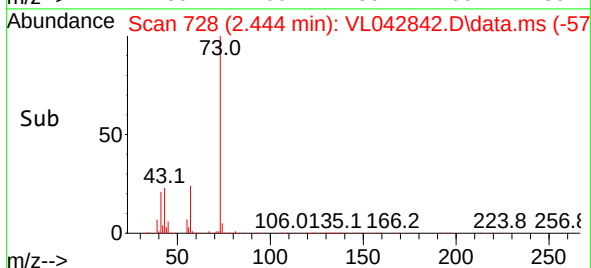
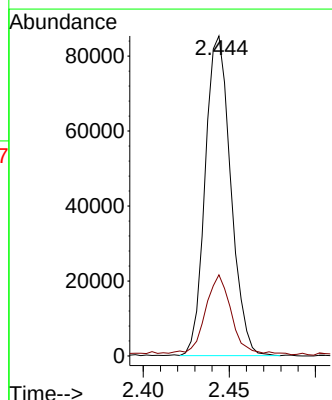
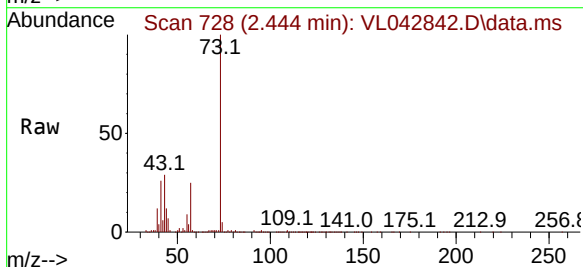
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

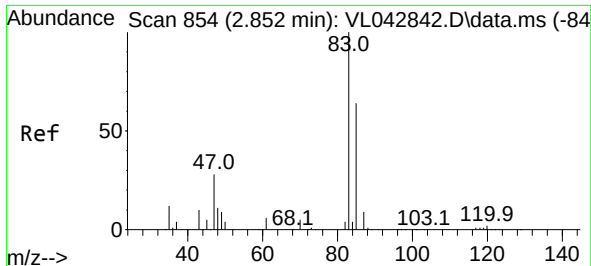
Tgt Ion: 76 Resp: 174928
Ion Ratio Lower Upper
76 100
44 19.9 15.9 23.9
78 11.9 9.5 14.3



#28
Methyl tert-Butyl Ether
Concen: 8.767 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 73 Resp: 87929
Ion Ratio Lower Upper
73 100
57 27.0 21.6 32.4

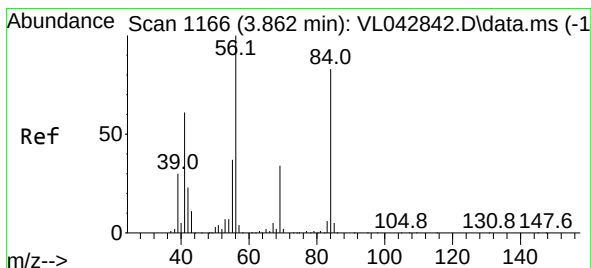
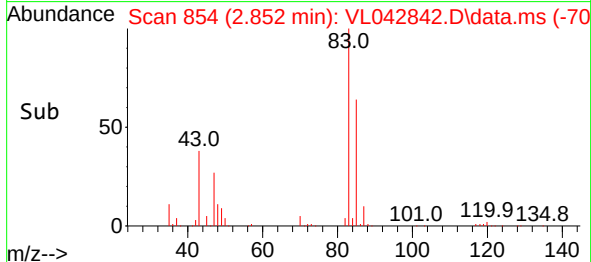
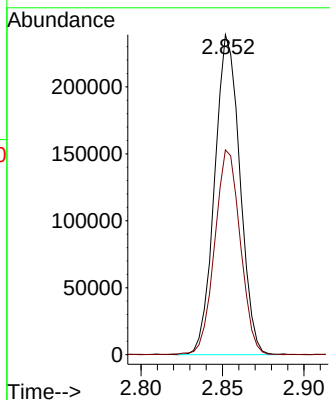
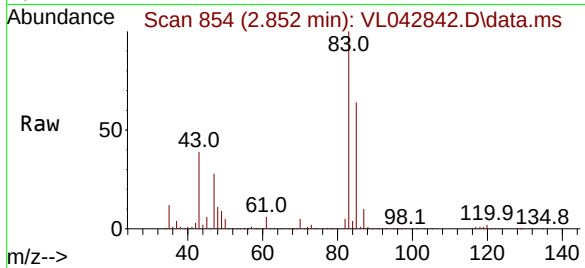




#29
Chloroform
Concen: 9.158 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

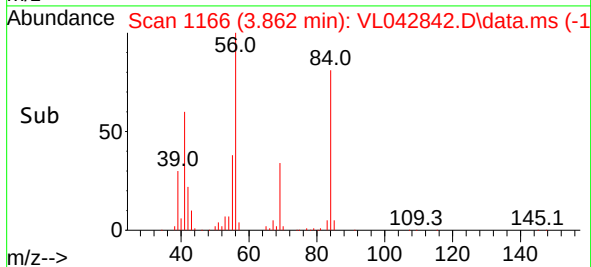
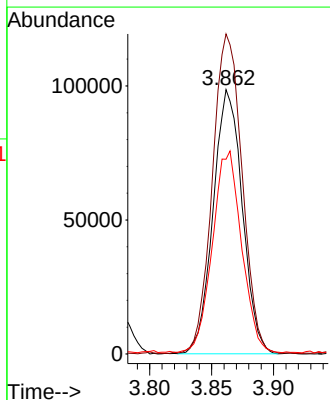
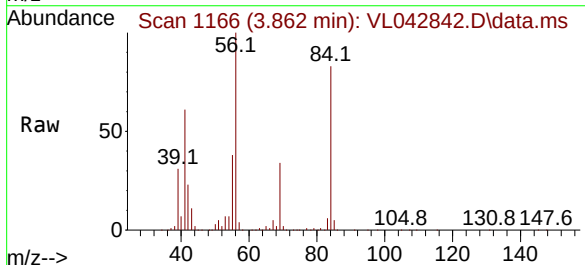
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

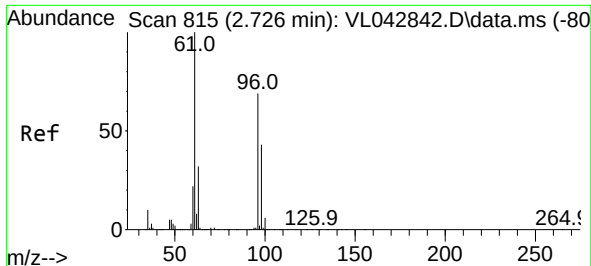
Tgt Ion: 83 Resp: 257176
Ion Ratio Lower Upper
83 100
85 63.9 51.1 76.7



#30
Cyclohexane
Concen: 9.367 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 84 Resp: 161540
Ion Ratio Lower Upper
84 100
56 123.5 98.8 148.2
41 76.6 61.3 91.9

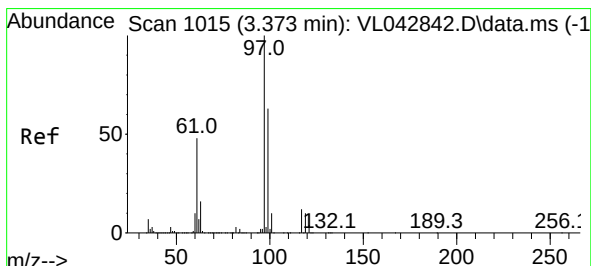
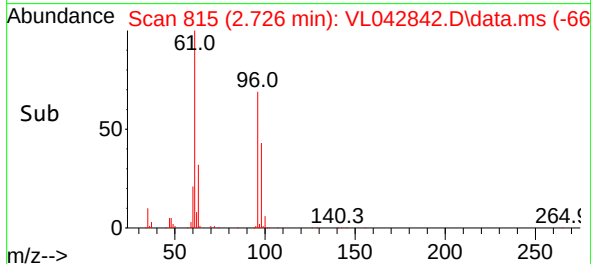
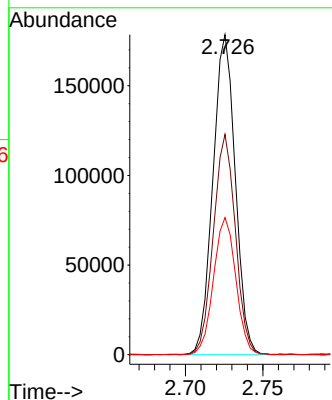
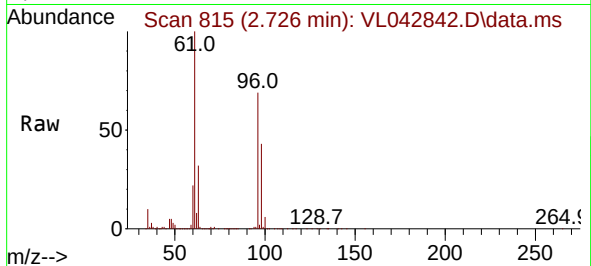




#31
 cis-1,2-Dichloroethene
 Concen: 9.107 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

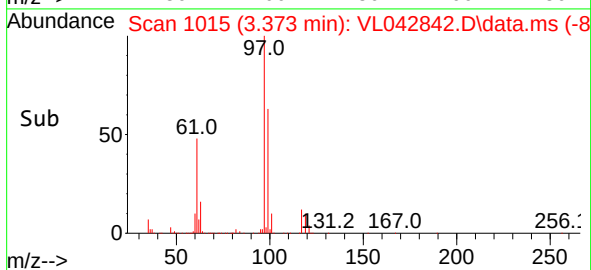
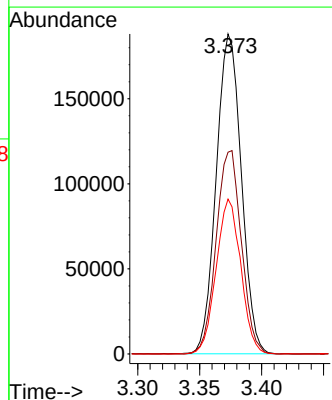
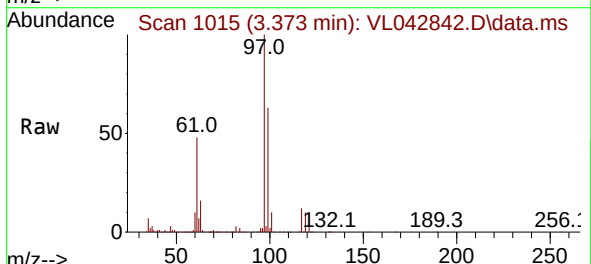
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

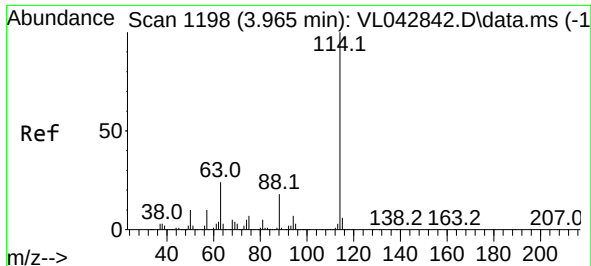
Tgt Ion: 61 Resp: 179162
 Ion Ratio Lower Upper
 61 100
 96 68.8 55.0 82.6
 98 42.9 34.3 51.5



#32
 1,1,1-Trichloroethane
 Concen: 8.946 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion: 97 Resp: 266021
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.0 76.6
 61 47.5 38.0 57.0

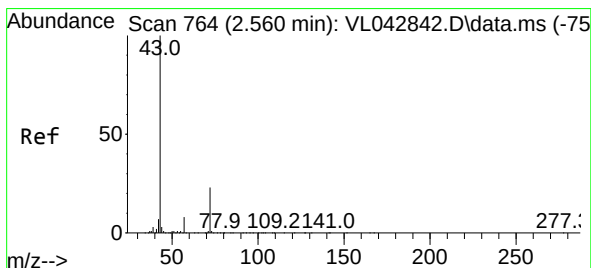
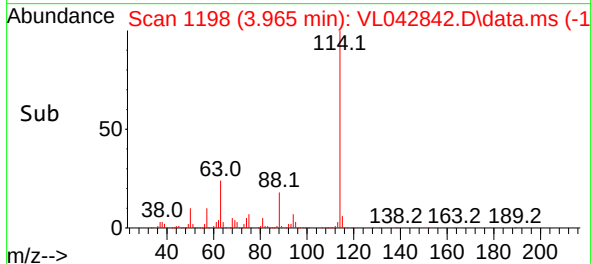
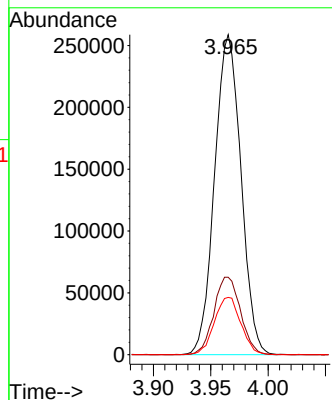
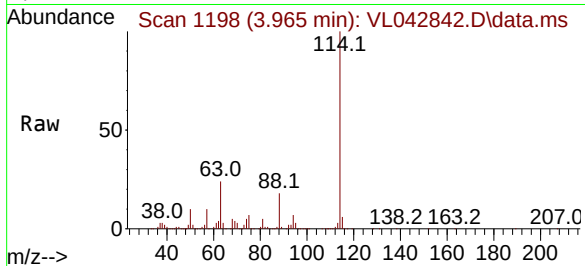




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

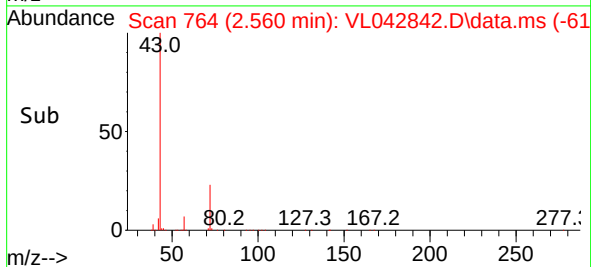
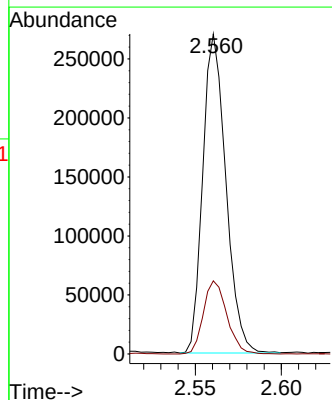
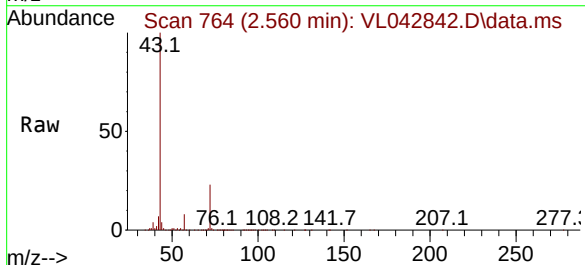
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

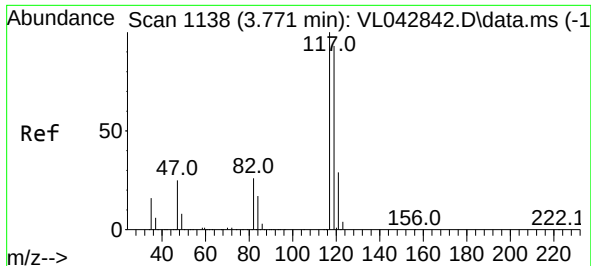
Tgt Ion:114 Resp: 413632
 Ion Ratio Lower Upper
 114 100
 63 24.6 19.7 29.5
 88 18.0 14.4 21.6



#34
 2-Butanone
 Concen: 9.033 ppbv
 RT: 2.560 min Scan# 764
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion: 43 Resp: 252300
 Ion Ratio Lower Upper
 43 100
 72 23.3 18.6 28.0

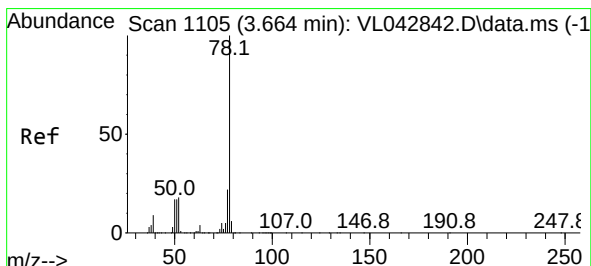
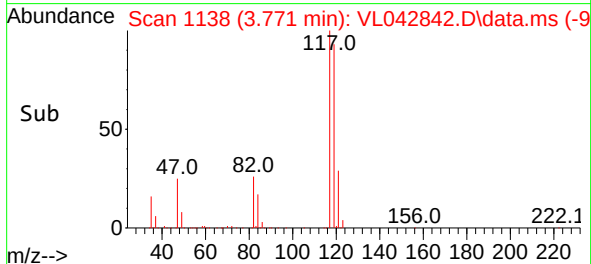
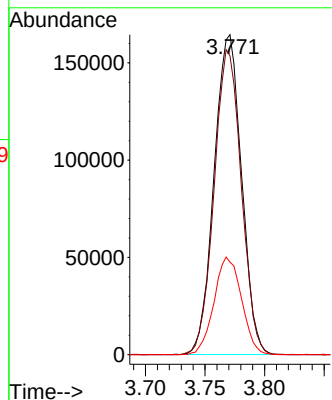
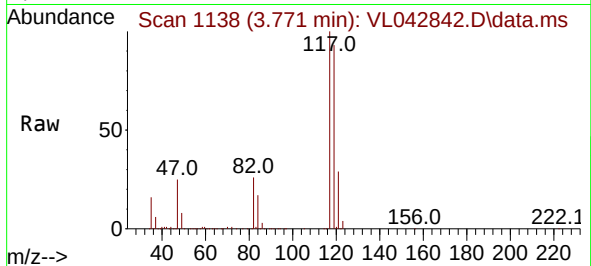




#35
Carbon Tetrachloride
Concen: 9.222 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

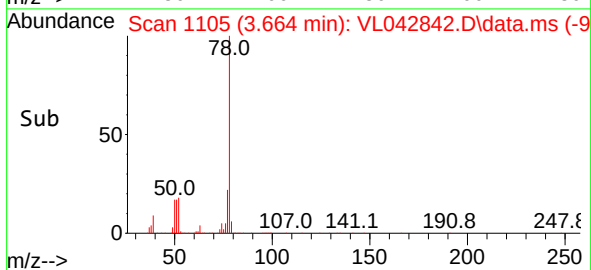
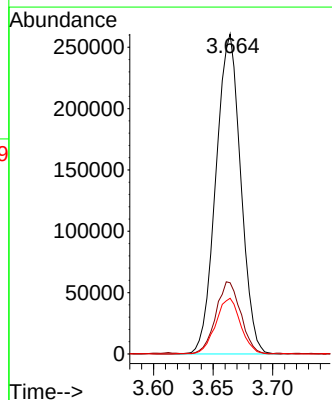
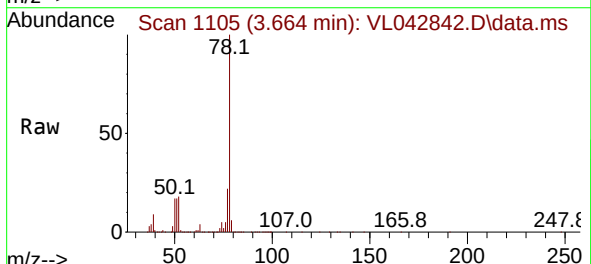
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

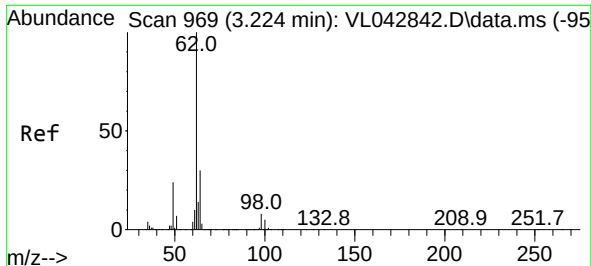
Tgt Ion:117 Resp: 262983
Ion Ratio Lower Upper
117 100
119 93.4 74.7 112.1
121 29.0 23.2 34.8



#36
Benzene
Concen: 9.521 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 78 Resp: 377113
Ion Ratio Lower Upper
78 100
77 22.1 17.7 26.5
50 17.4 13.9 20.9





#37

1,2-Dichloroethane

Concen: 9.653 ppbv

RT: 3.224 min Scan# 969

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

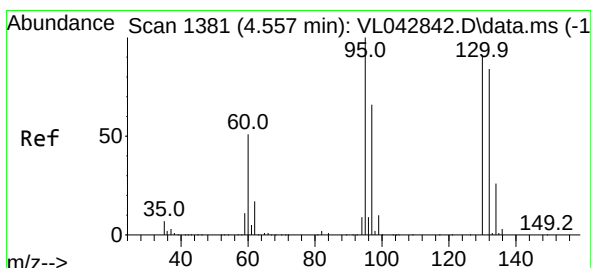
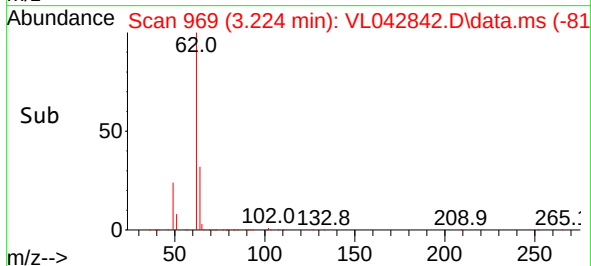
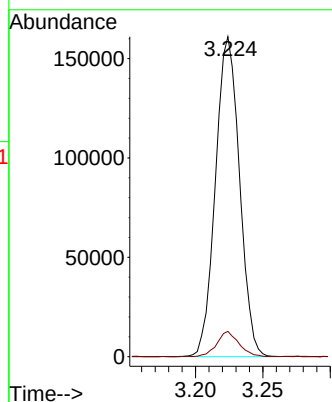
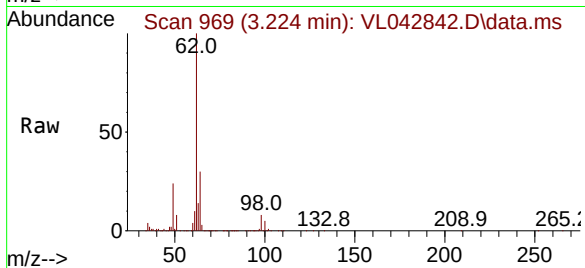
VSTDICCC010

Tgt Ion: 62 Resp: 199762

Ion Ratio Lower Upper

62 100

98 7.4 5.9 8.9



#38

Trichloroethene

Concen: 9.115 ppbv

RT: 4.557 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Tgt Ion: 130 Resp: 164881

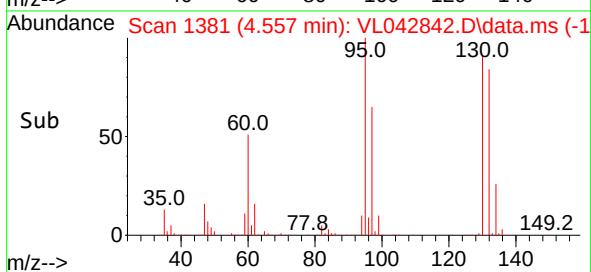
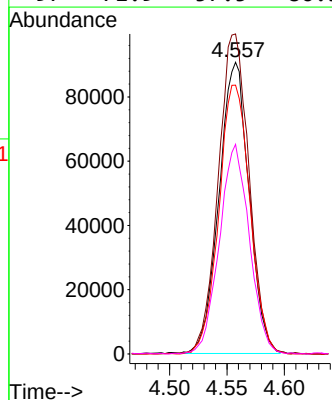
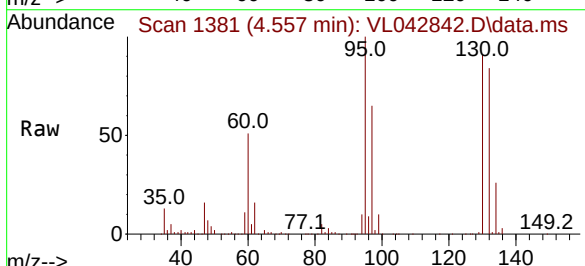
Ion Ratio Lower Upper

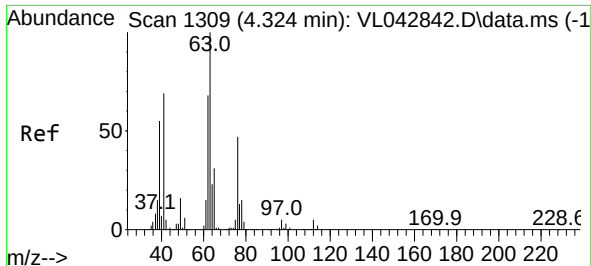
130 100

95 109.5 87.6 131.4

132 92.3 73.8 110.8

97 71.9 57.5 86.3





#39

1,2-Dichloropropane

Concen: 9.263 ppbv

RT: 4.324 min Scan# 1309

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

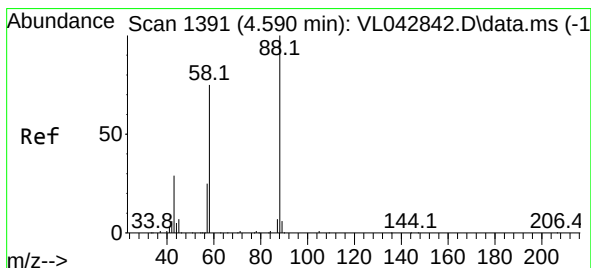
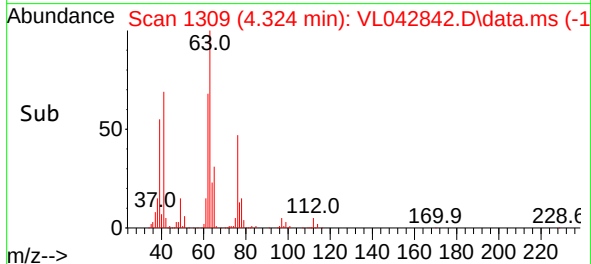
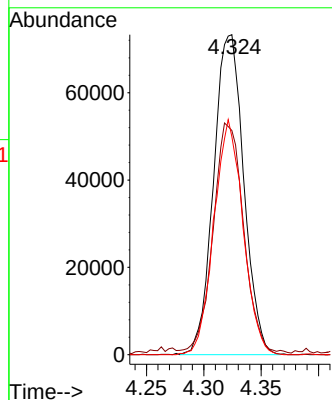
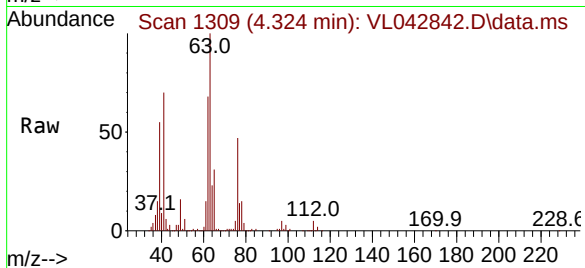
Tgt Ion: 63 Resp: 133996

Ion Ratio Lower Upper

63 100

41 68.7 55.0 82.4

62 68.0 54.4 81.6



#40

1,4-Dioxane

Concen: 9.064 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Tgt Ion: 88 Resp: 61378

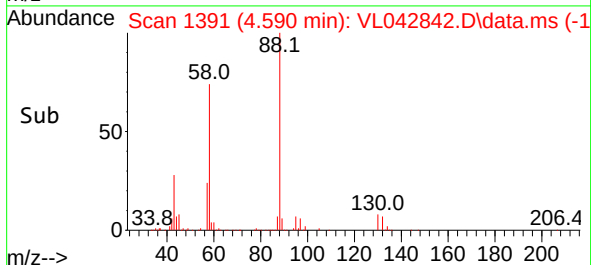
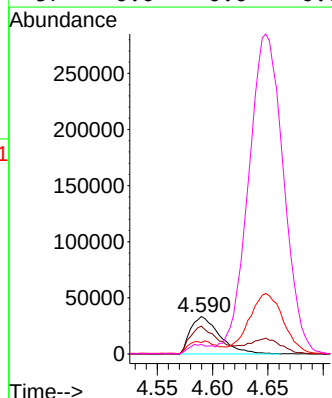
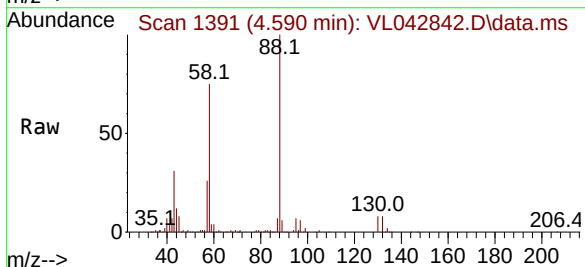
Ion Ratio Lower Upper

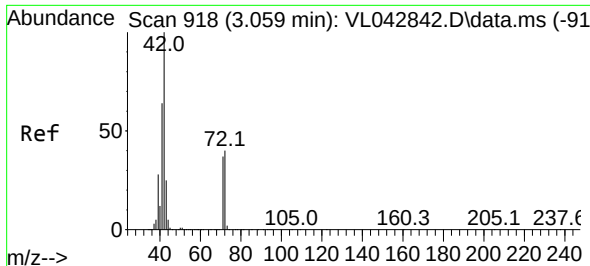
88 100

58 67.2 53.8 80.6

43 28.5 22.8 34.2

57 0.0 0.0 0.0

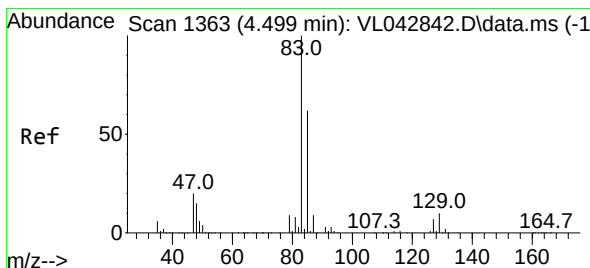
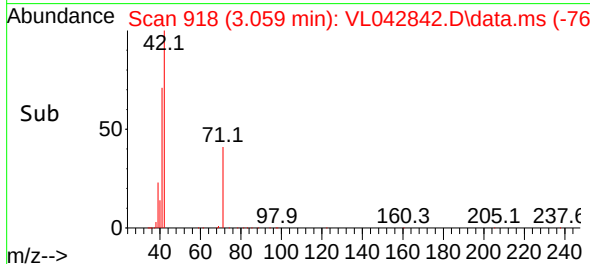
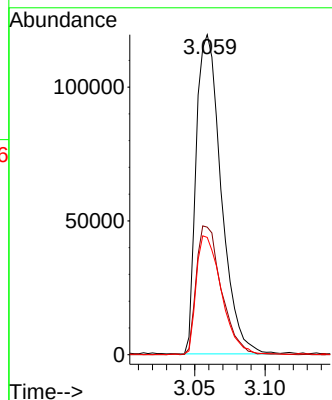
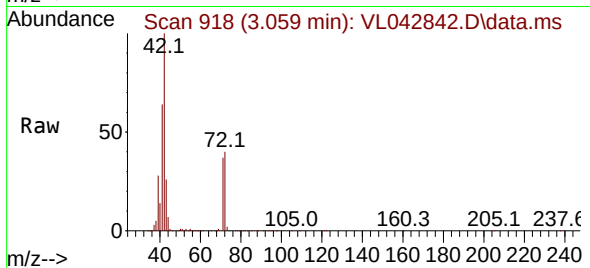




#41
Tetrahydrofuran
Concen: 9.442 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

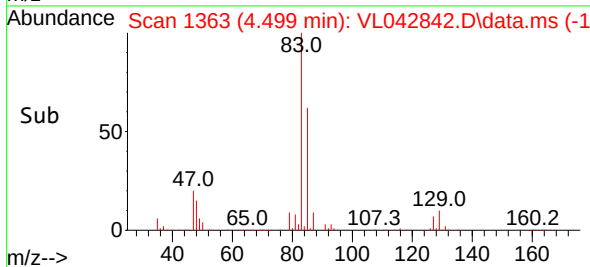
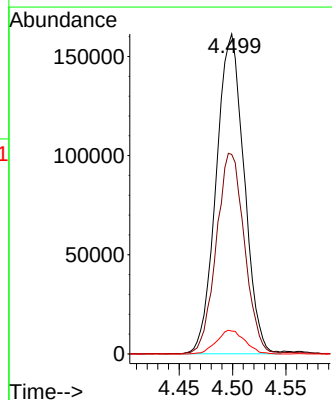
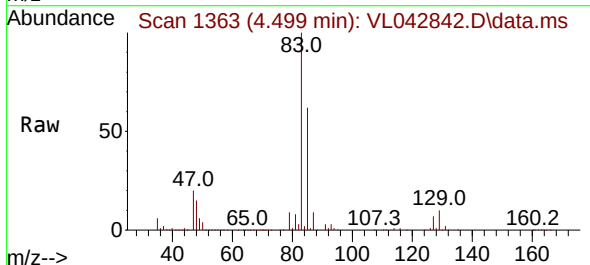
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

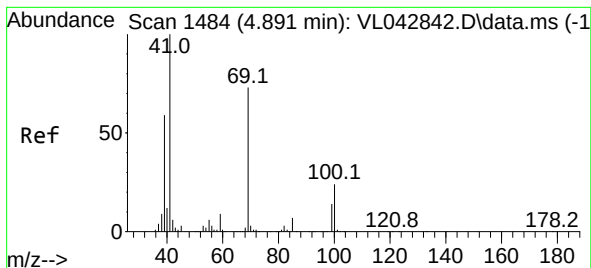
Tgt Ion: 42 Resp: 147025
Ion Ratio Lower Upper
42 100
72 40.7 32.6 48.8
71 37.5 30.0 45.0



#42
Bromodichloromethane
Concen: 9.499 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 83 Resp: 292909
Ion Ratio Lower Upper
83 100
85 62.3 49.8 74.8
127 7.2 5.8 8.6





#43

Methyl Methacrylate

Concen: 9.357 ppbv

RT: 4.891 min Scan# 1484

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

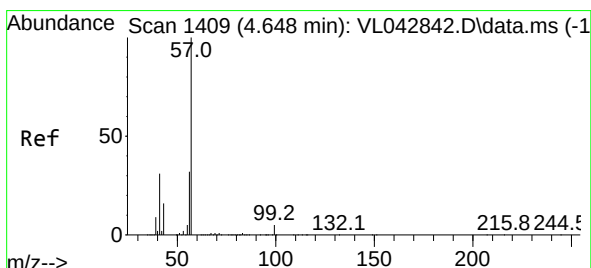
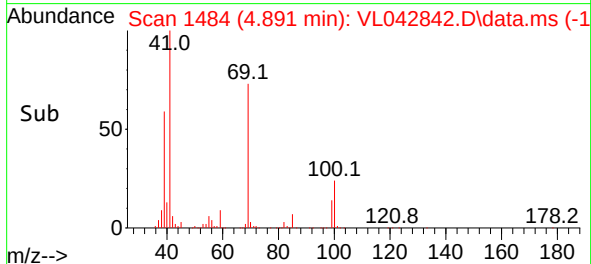
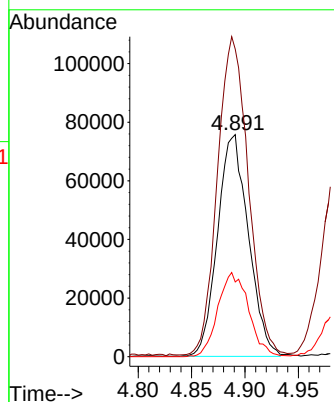
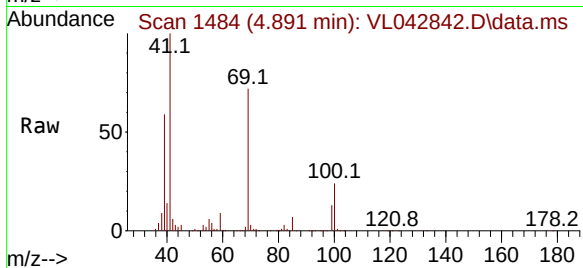
Tgt Ion: 69 Resp: 152035

Ion Ratio Lower Upper

69 100

41 143.3 114.6 172.0

100 37.8 30.2 45.4



#44

2,2,4-Trimethylpentane

Concen: 9.420 ppbv

RT: 4.648 min Scan# 1409

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

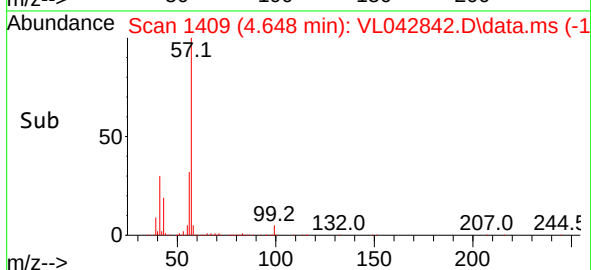
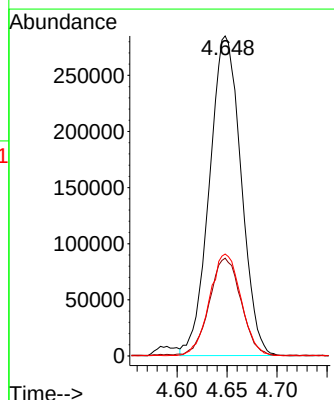
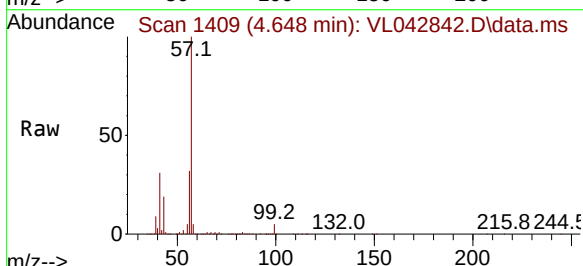
Tgt Ion: 57 Resp: 626465

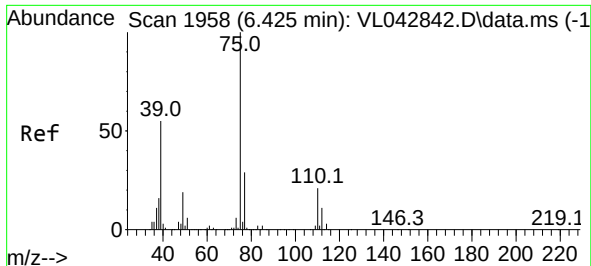
Ion Ratio Lower Upper

57 100

41 31.0 24.8 37.2

56 31.9 25.5 38.3

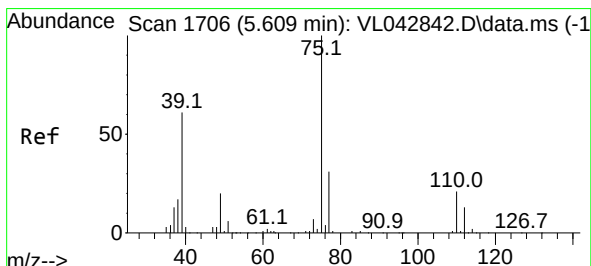
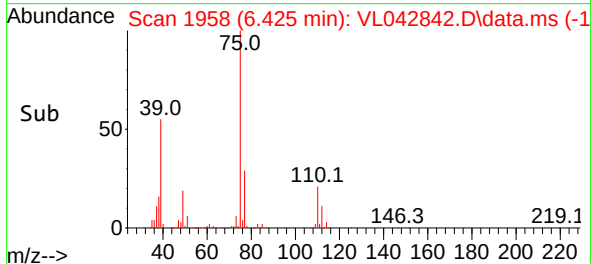
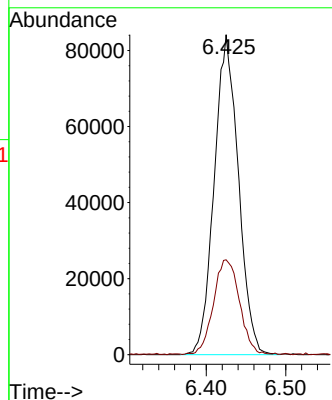
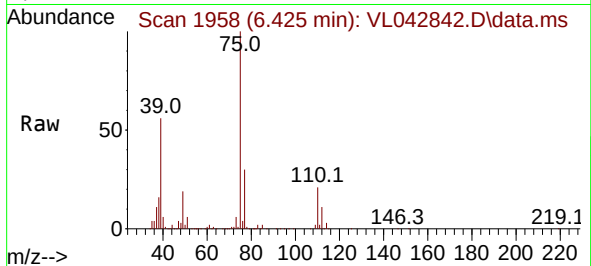




#45
 t-1,3-Dichloropropene
 Concen: 9.616 ppbv
 RT: 6.425 min Scan# 1958
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

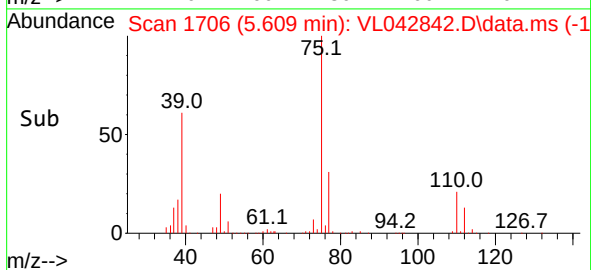
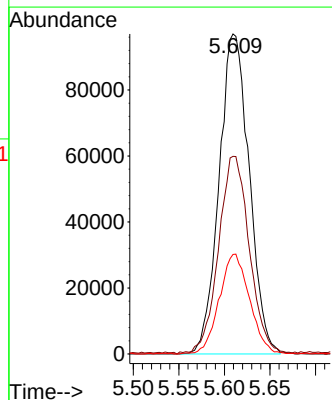
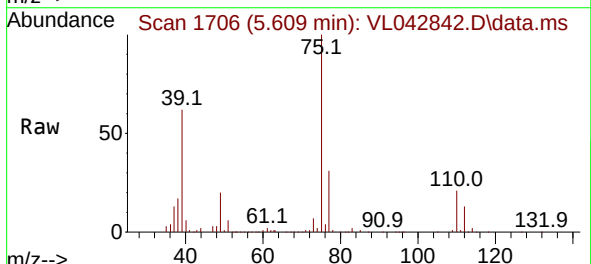
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

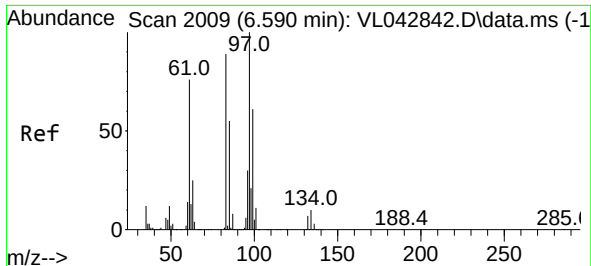
Tgt Ion: 75 Resp: 177207
 Ion Ratio Lower Upper
 75 100
 77 29.7 23.8 35.6



#46
 cis-1,3-Dichloropropene
 Concen: 9.635 ppbv
 RT: 5.609 min Scan# 1706
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion: 75 Resp: 222921
 Ion Ratio Lower Upper
 75 100
 39 61.1 48.9 73.3
 77 31.1 24.9 37.3

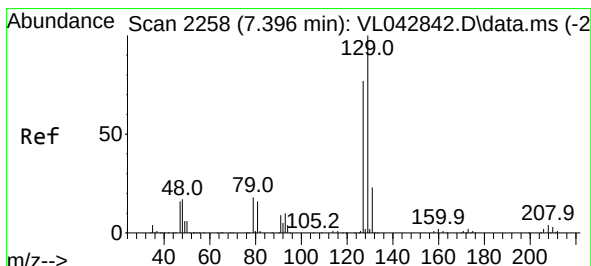
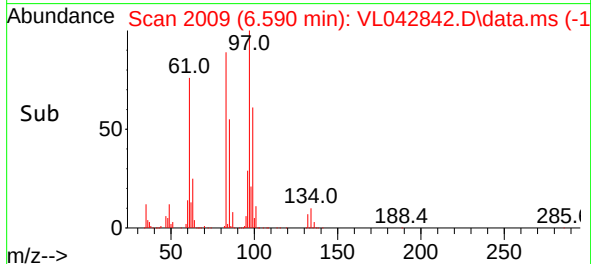
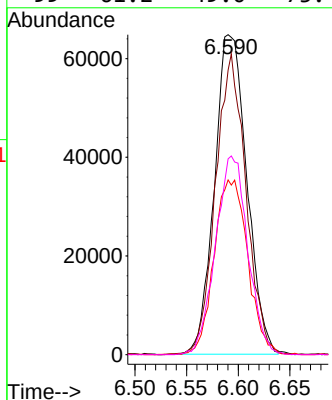
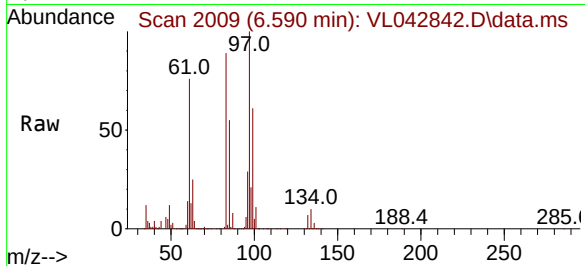




#47
 1,1,2-Trichloroethane
 Concen: 9.215 ppbv
 RT: 6.590 min Scan# 2009
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

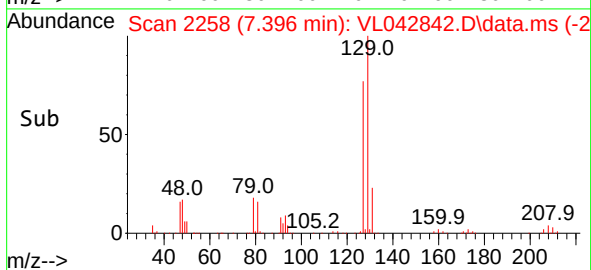
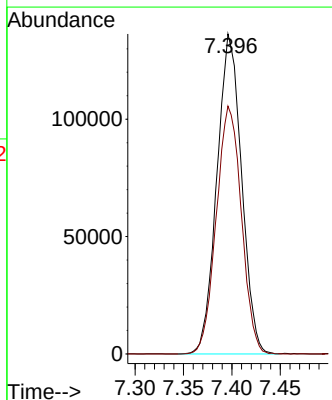
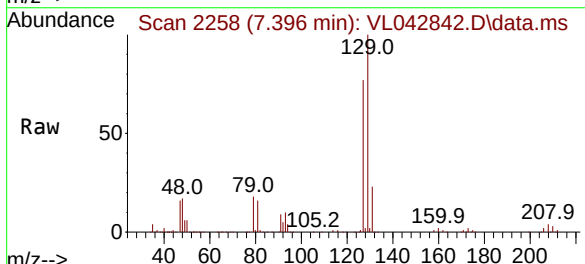
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

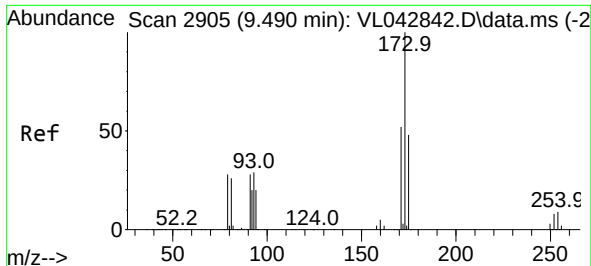
Tgt Ion: 97	Resp: 141105
Ion Ratio	Lower Upper
97 100	
83 88.7	71.0 106.4
85 54.5	43.6 65.4
99 61.2	49.0 73.4



#48
 Dibromochloromethane
 Concen: 9.739 ppbv
 RT: 7.396 min Scan# 2258
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

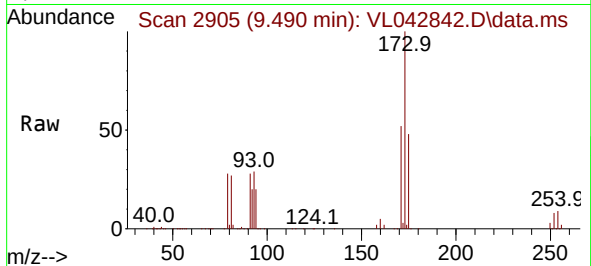
Tgt Ion:129	Resp: 241553
Ion Ratio	Lower Upper
129 100	
127 78.8	39.4 118.2



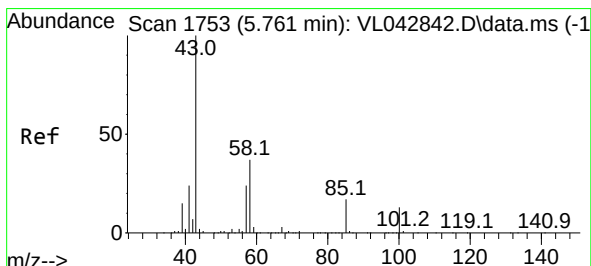
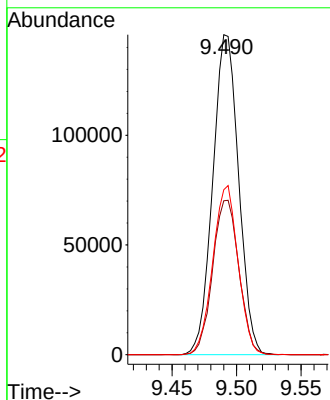
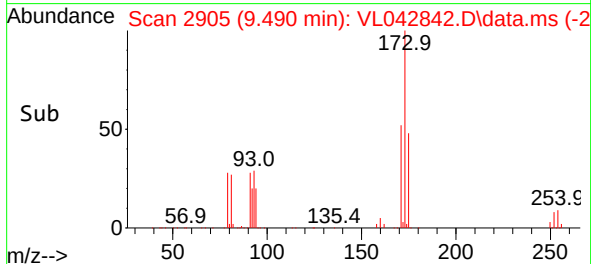


#49
Bromoform
Concen: 9.923 ppbv
RT: 9.490 min Scan# 2905
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

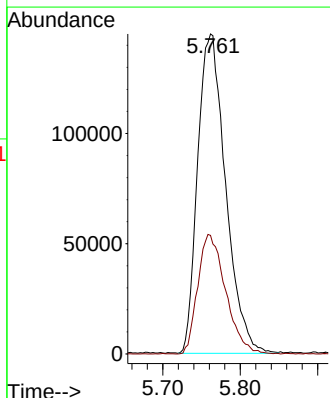
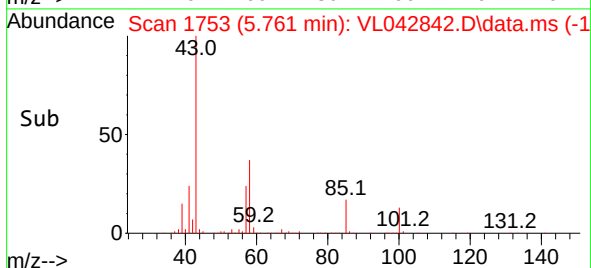
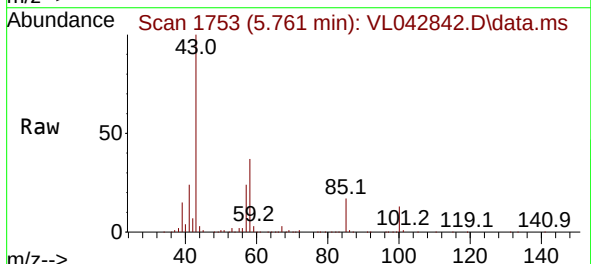


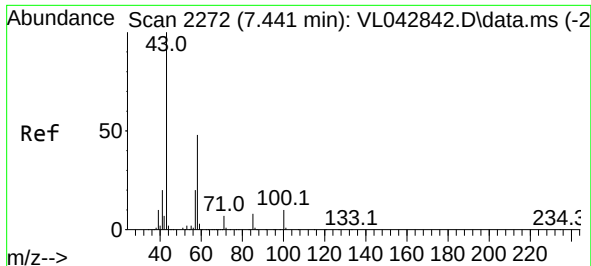
Tgt Ion:173 Resp: 202975
Ion Ratio Lower Upper
173 100
175 49.0 39.2 58.8
171 51.6 41.3 61.9



#50
4-Methyl-2-Pentanone
Concen: 9.616 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 43 Resp: 364306
Ion Ratio Lower Upper
43 100
58 37.3 29.8 44.8

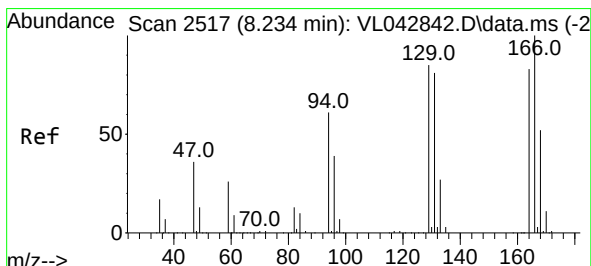
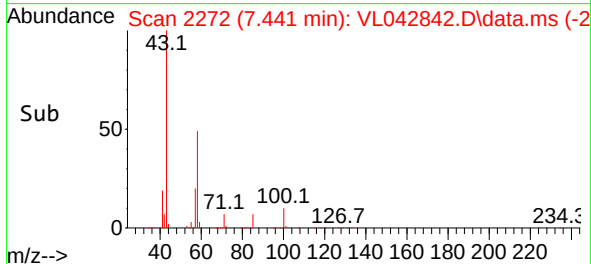
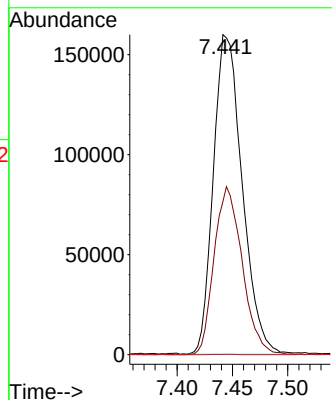
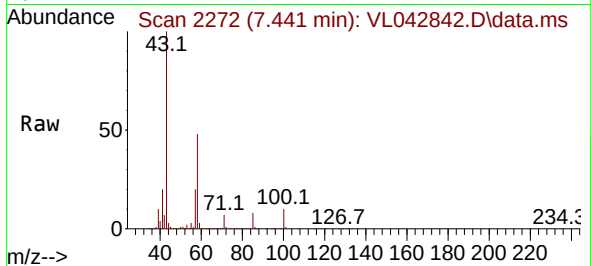




#51
2-Hexanone
Concen: 9.730 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

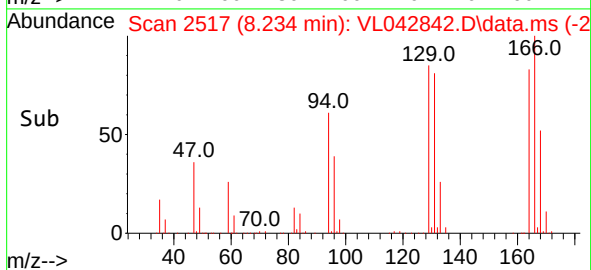
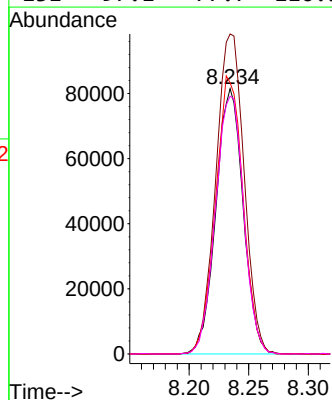
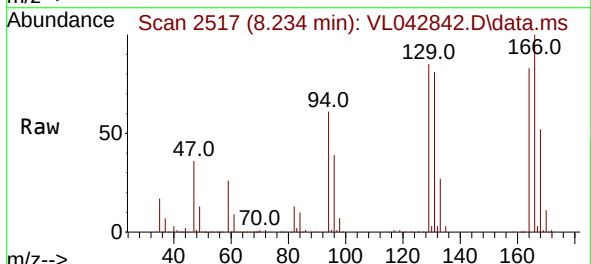
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

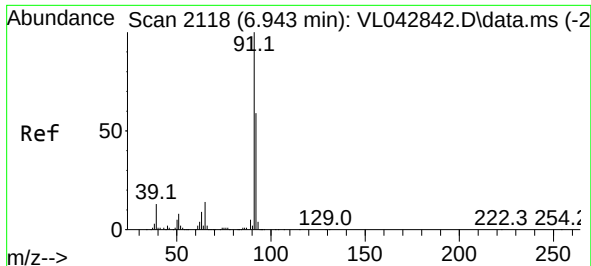
Tgt Ion: 43 Resp: 289052
Ion Ratio Lower Upper
43 100
58 51.3 41.0 61.6
98 0.1 0.1 0.1#



#52
Tetrachloroethene
Concen: 9.026 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 164 Resp: 129484
Ion Ratio Lower Upper
164 100
166 120.6 96.5 144.7
129 102.2 81.8 122.6
131 97.1 77.7 116.5

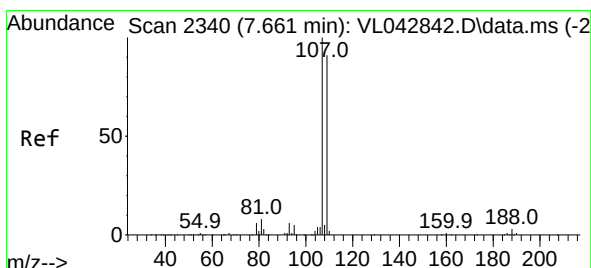
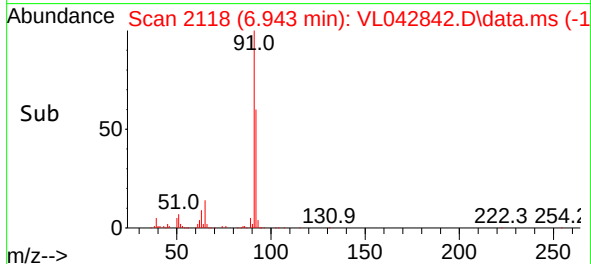
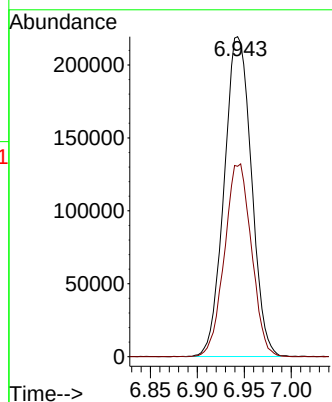
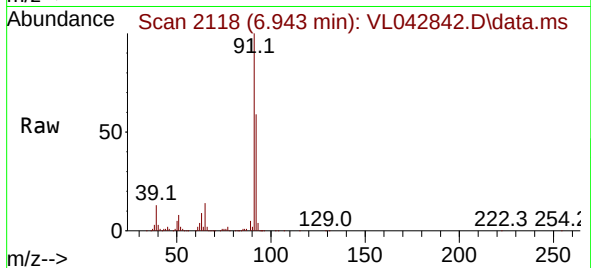




#53
Toluene
Concen: 9.407 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

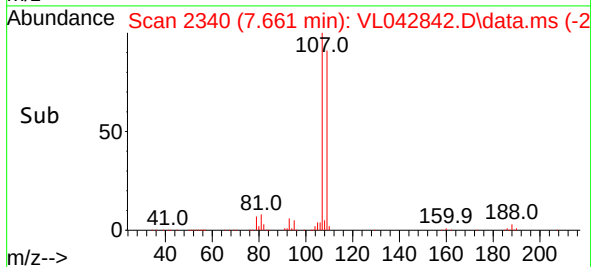
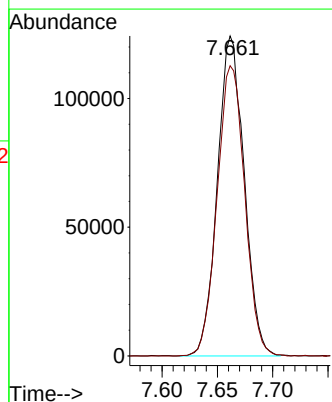
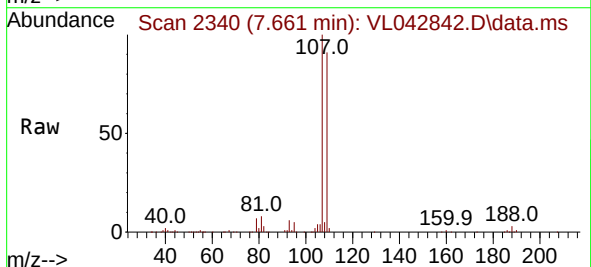
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

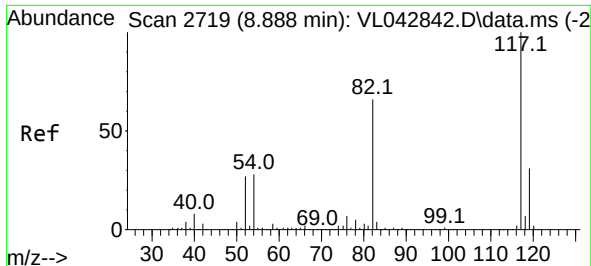
Tgt Ion: 91 Resp: 443400
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6



#54
1,2-Dibromoethane
Concen: 9.345 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 107 Resp: 209330
Ion Ratio Lower Upper
107 100
109 90.6 72.5 108.7

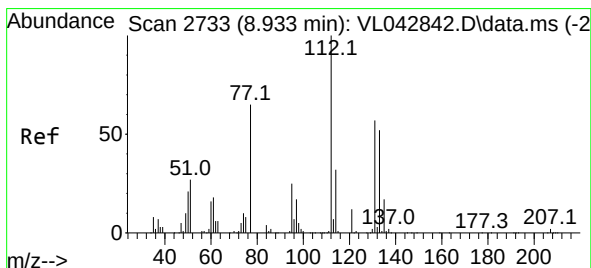
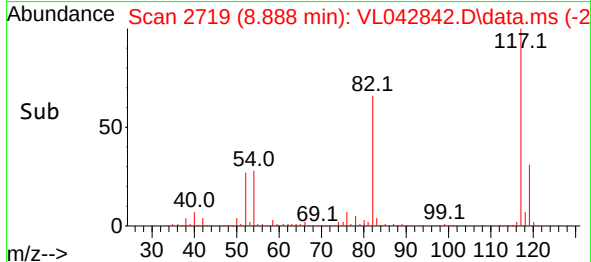
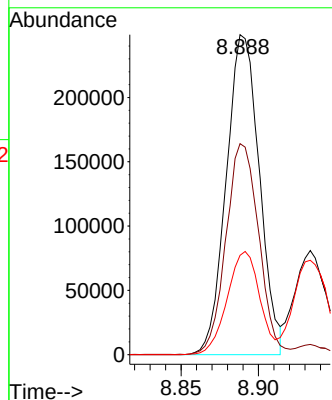
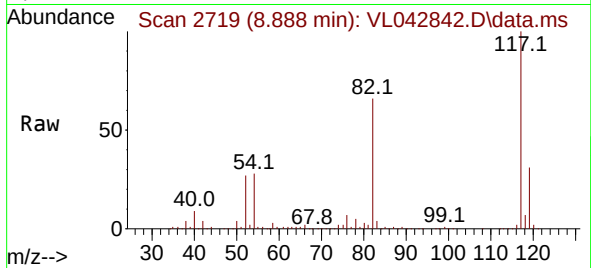




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

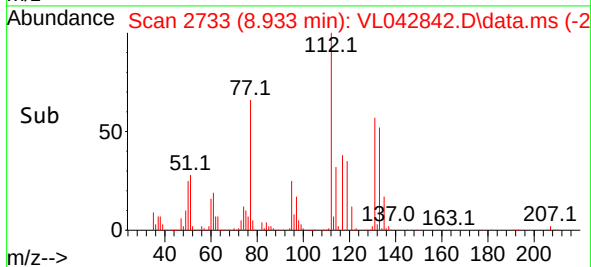
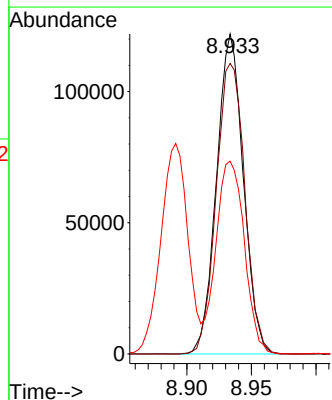
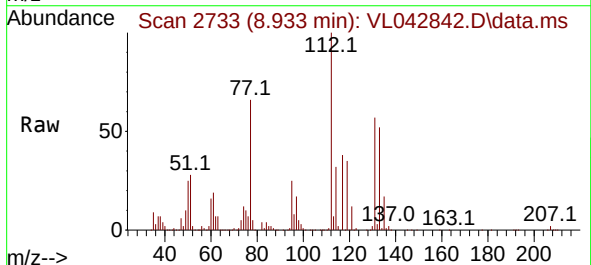
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

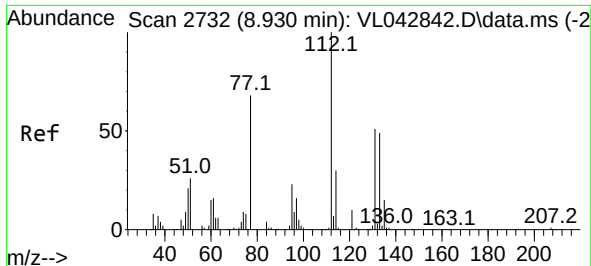
Tgt Ion:117 Resp: 370372
Ion Ratio Lower Upper
117 100
82 68.2 54.6 81.8
119 32.4 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 9.196 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:131 Resp: 176135
Ion Ratio Lower Upper
131 100
133 96.7 77.4 116.0
119 64.0 51.2 76.8

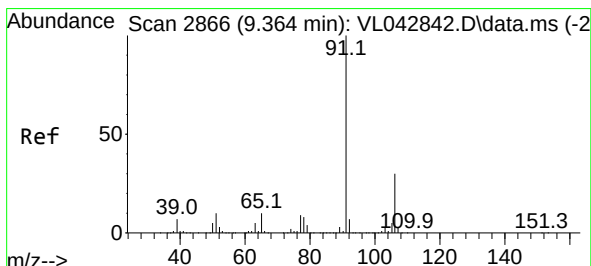
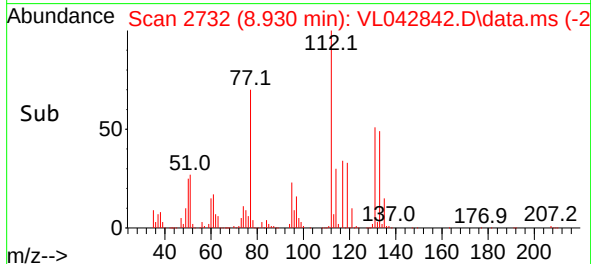
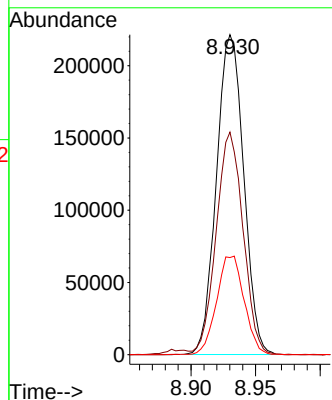
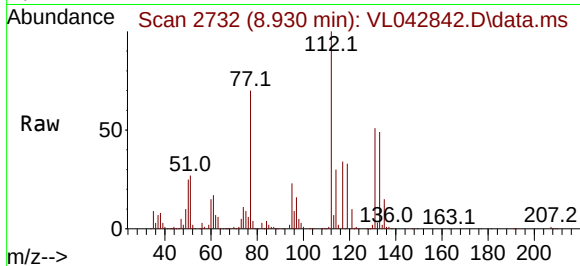




#57
Chlorobenzene
Concen: 9.237 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

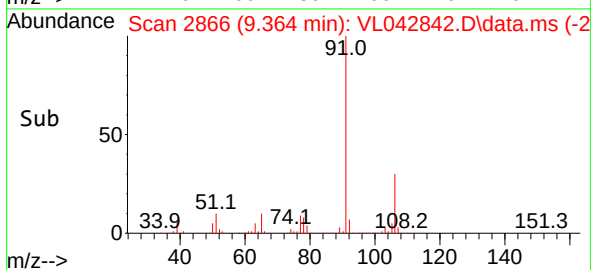
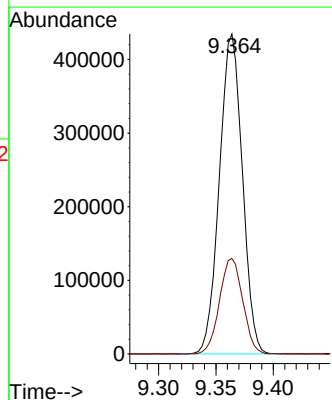
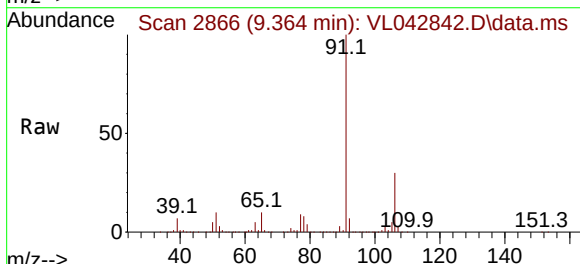
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

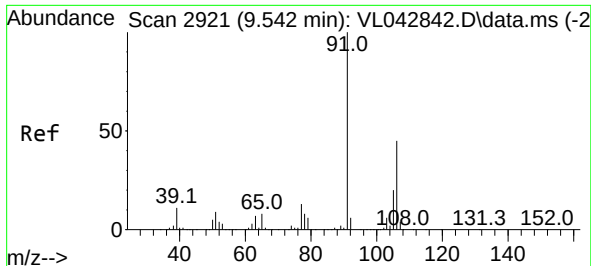
Tgt Ion:112 Resp: 325303
Ion Ratio Lower Upper
112 100
77 69.4 55.5 83.3
114 30.2 27.2 33.2



#58
Ethyl Benzene
Concen: 9.268 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 605785
Ion Ratio Lower Upper
91 100
106 29.9 23.9 35.9





#59

m/p-Xylene

Concen: 10.505 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_1

ClientSampleId :

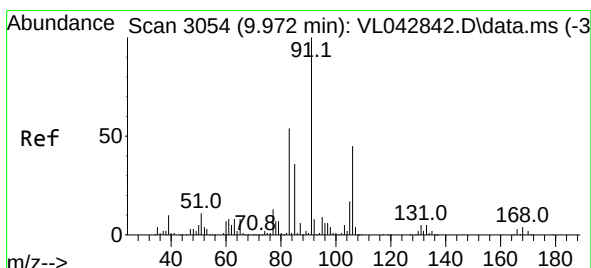
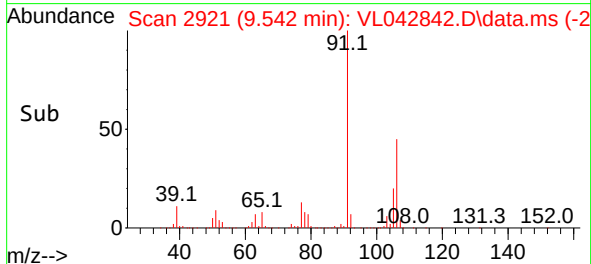
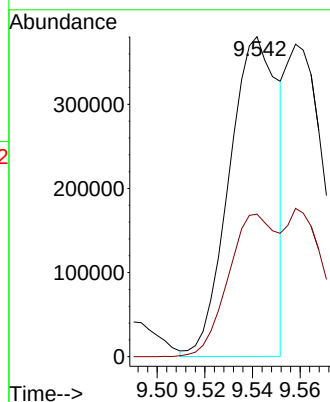
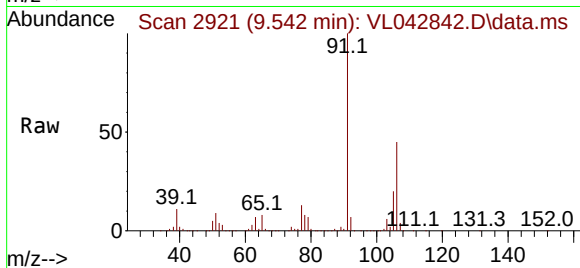
VSTDICCC010

Tgt Ion: 91 Resp: 539072

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 9.102 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VL042842.D

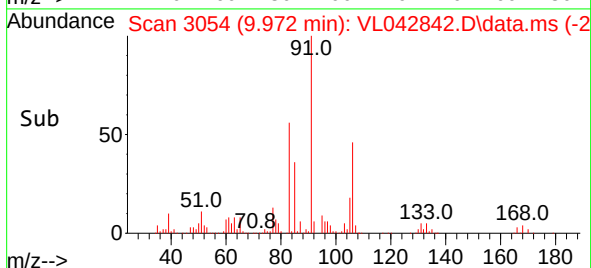
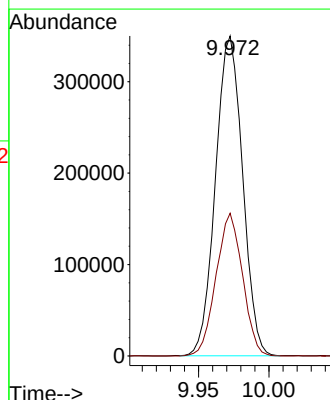
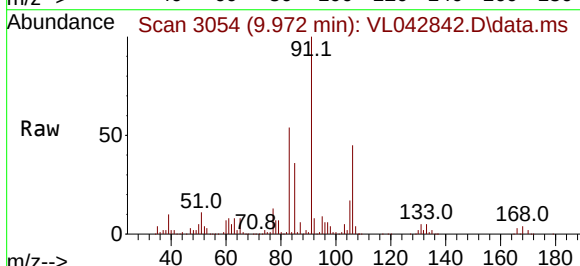
Acq: 13 Aug 2025 08:30

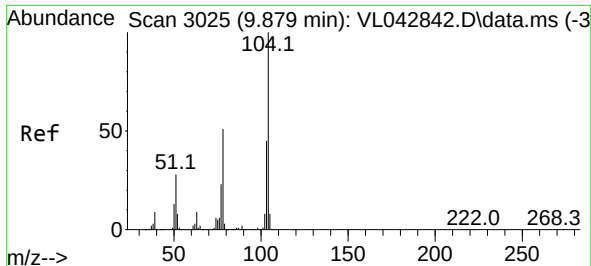
Tgt Ion: 91 Resp: 469073

Ion Ratio Lower Upper

91 100

106 43.6 21.8 65.4

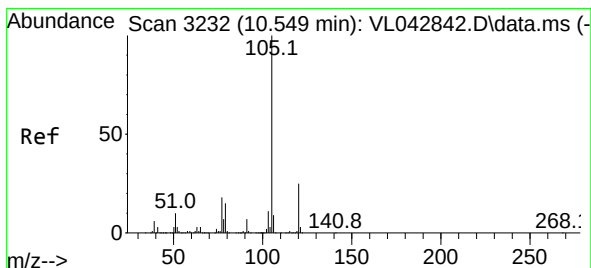
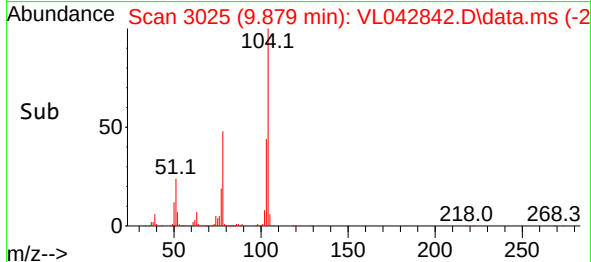
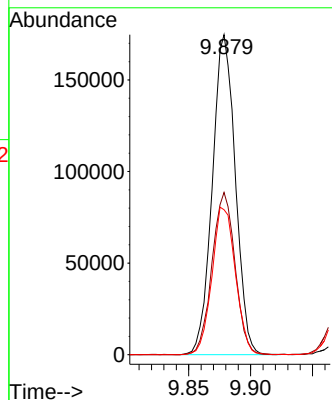
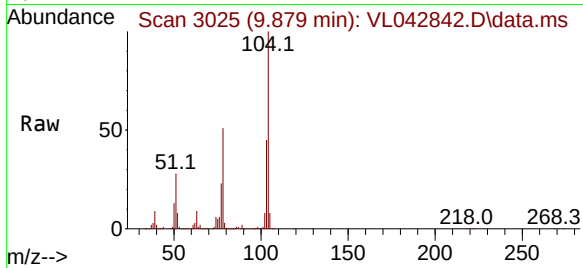




#61
Styrene
Concen: 9.362 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

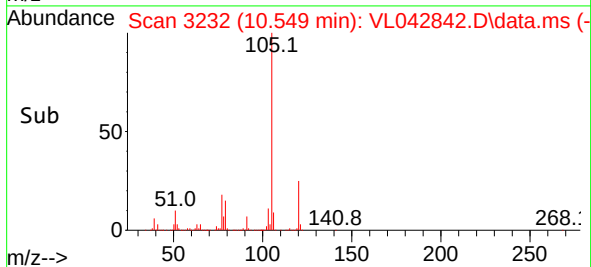
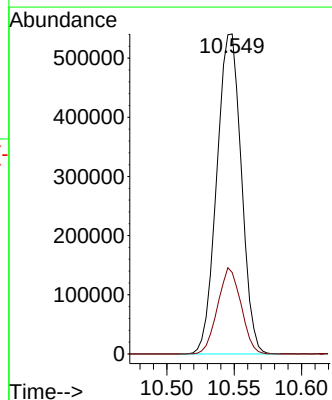
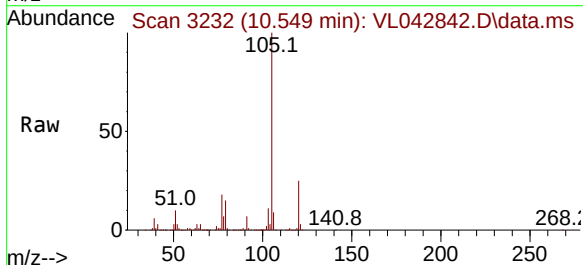
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

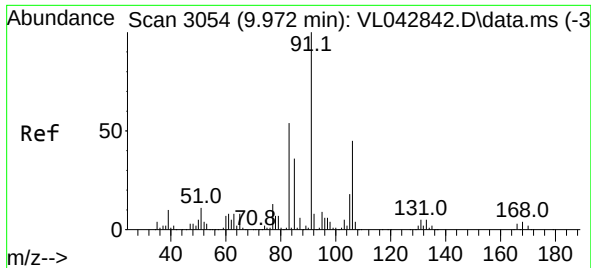
Tgt Ion:104 Resp: 226056
Ion Ratio Lower Upper
104 100
78 50.8 40.6 61.0
103 47.1 37.7 56.5



#62
Isopropylbenzene
Concen: 9.108 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:105 Resp: 685983
Ion Ratio Lower Upper
105 100
120 25.7 20.6 30.8

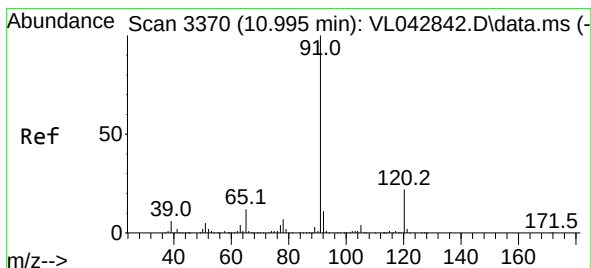
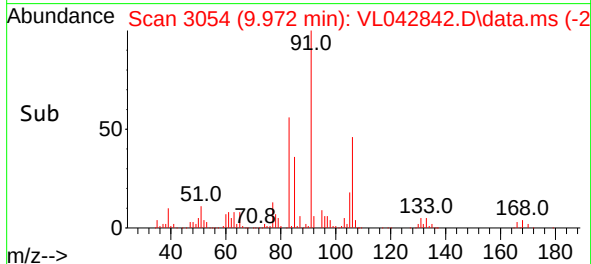
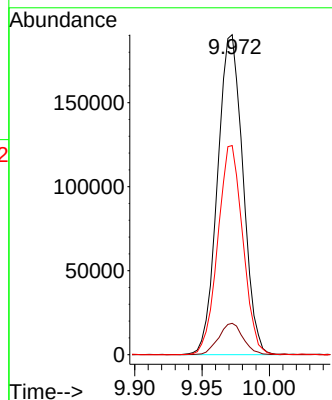
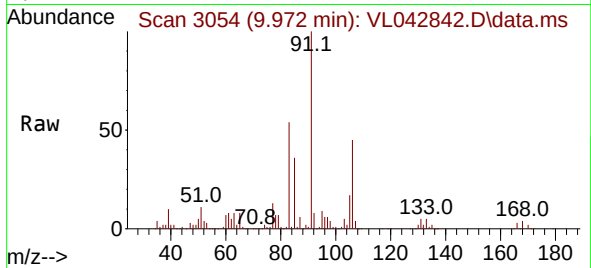




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.870 ppbv
 RT: 9.972 min Scan# 3054
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

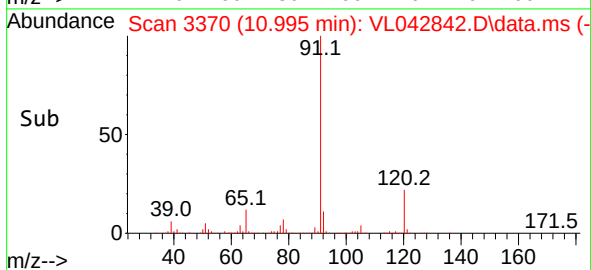
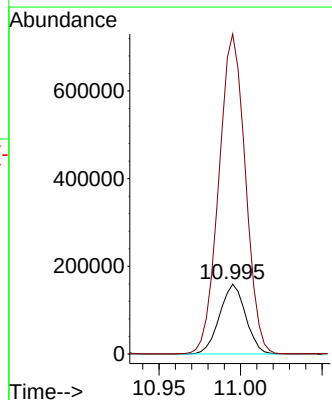
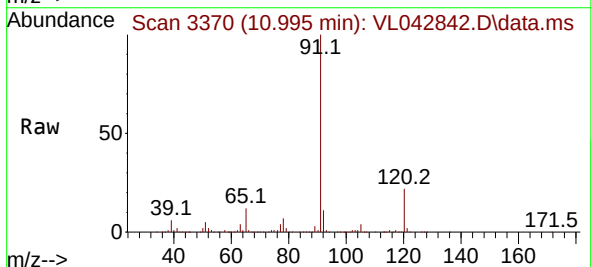
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

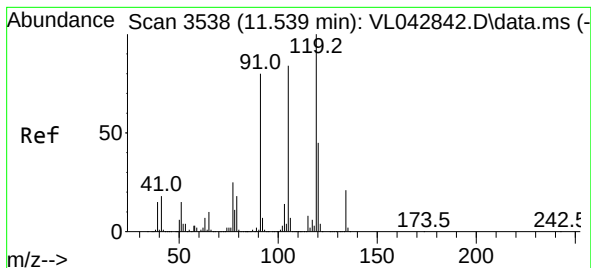
Tgt Ion: 83 Resp: 249621
 Ion Ratio Lower Upper
 83 100
 131 9.5 4.8 14.3
 85 64.5 32.3 96.8



#64
 n-propylbenzene
 Concen: 9.158 ppbv
 RT: 10.995 min Scan# 3370
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion: 120 Resp: 175986
 Ion Ratio Lower Upper
 120 100
 91 469.7 375.8 563.6

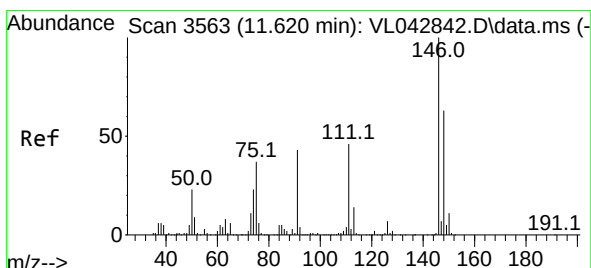
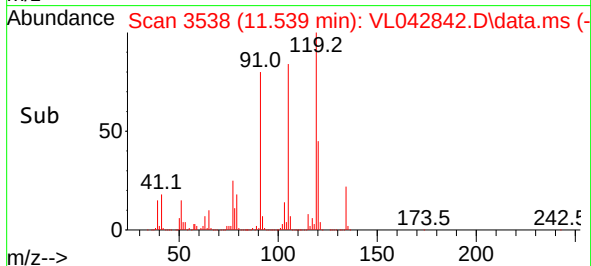
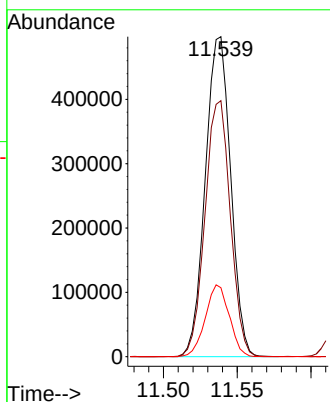
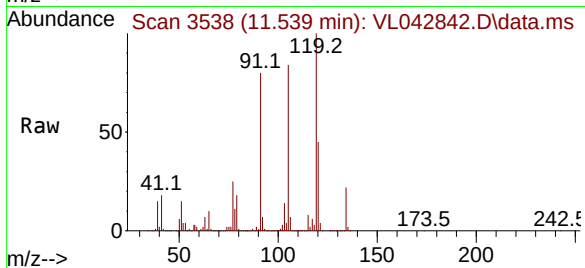




#65
tert-Butylbenzene
Concen: 8.951 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

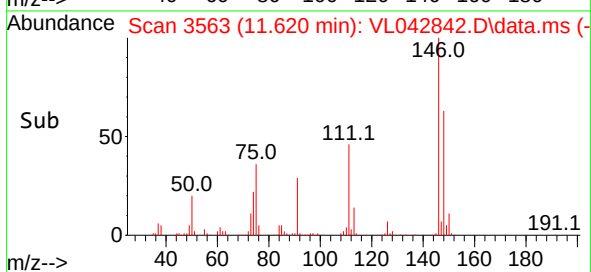
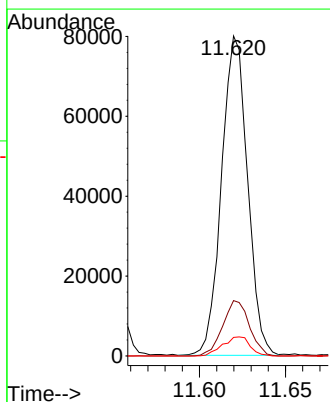
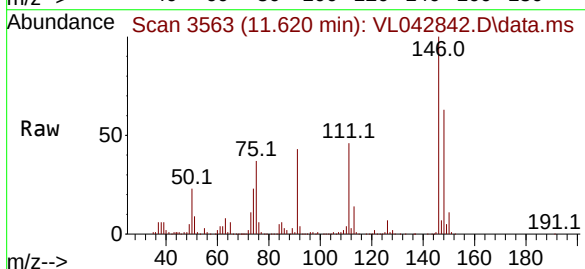
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

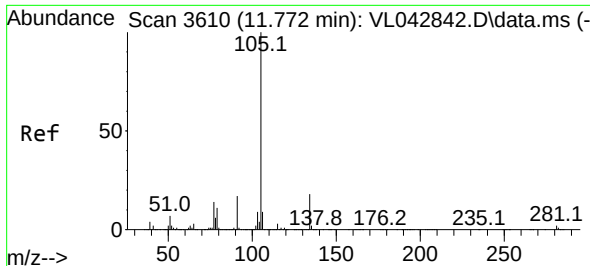
Tgt Ion:119 Resp: 594314
Ion Ratio Lower Upper
119 100
91 79.9 63.9 95.9
134 21.2 17.0 25.4



#66
Benzyl Chloride
Concen: 9.985 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 84156
Ion Ratio Lower Upper
91 100
126 17.8 14.2 21.4
128 6.3 5.0 7.6

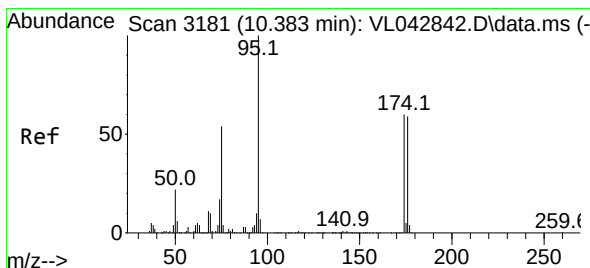
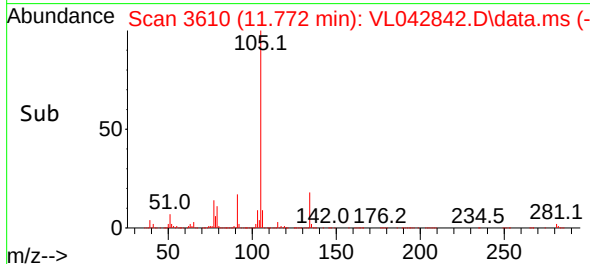
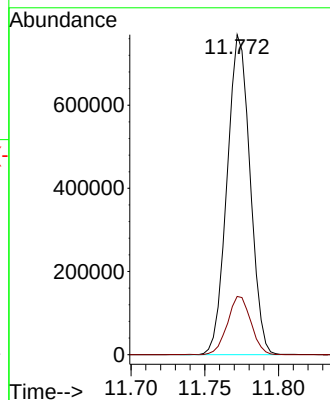
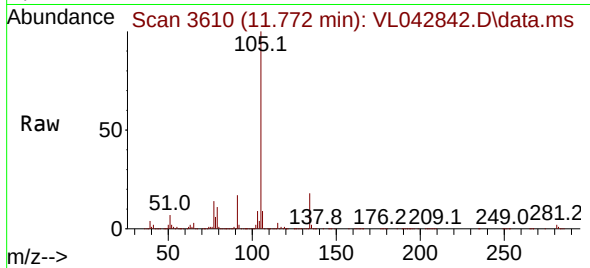




#67
 sec-Butylbenzene
 Concen: 8.943 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

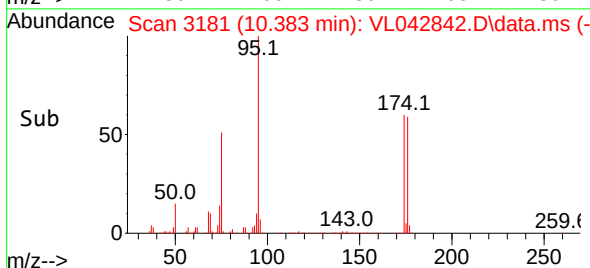
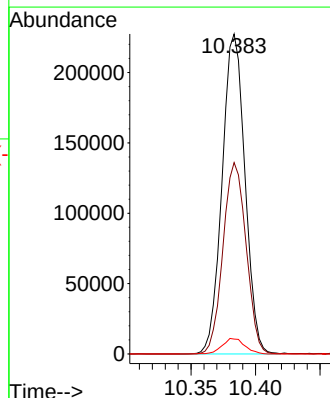
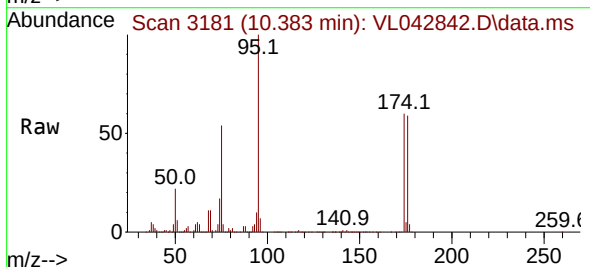
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

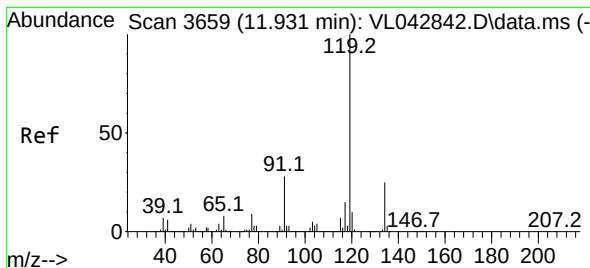
Tgt Ion:105 Resp: 833378
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.064 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion: 95 Resp: 279557
 Ion Ratio Lower Upper
 95 100
 174 60.5 48.4 72.6
 175 4.8 3.8 5.8

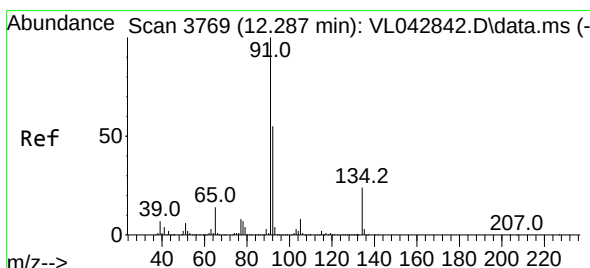
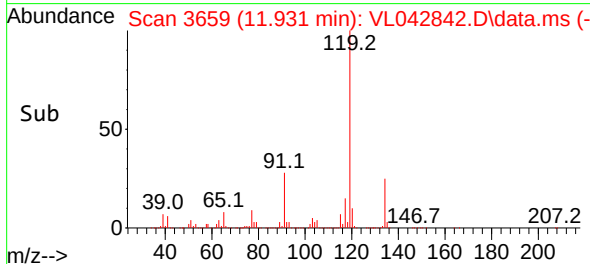
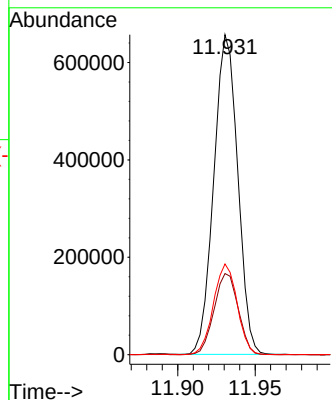
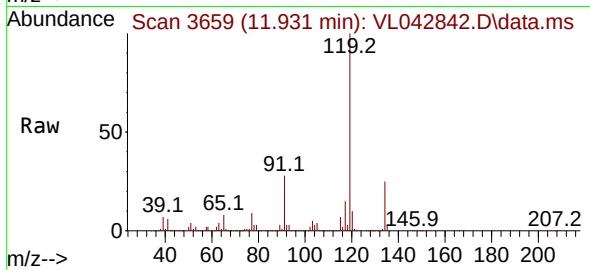




#69
 p-Isopropyltoluene
 Concen: 8.820 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

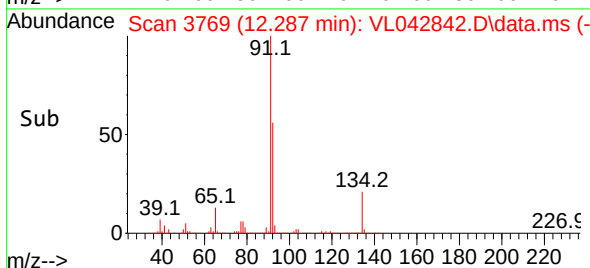
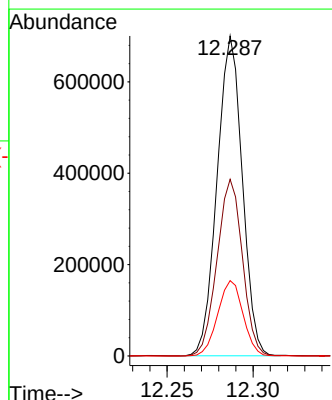
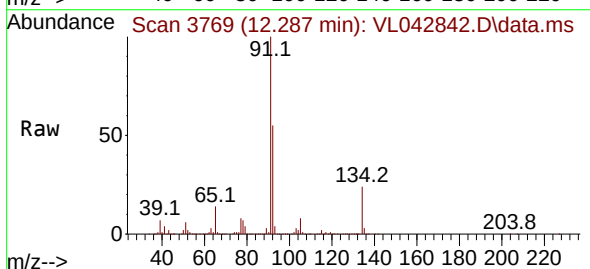
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

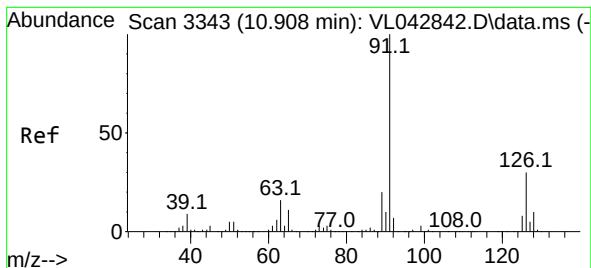
Tgt Ion:119 Resp: 705700
 Ion Ratio Lower Upper
 119 100
 134 25.7 20.6 30.8
 91 28.3 22.6 34.0



#70
 n-Butylbenzene
 Concen: 8.995 ppbv
 RT: 12.287 min Scan# 3769
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 713713
 Ion Ratio Lower Upper
 91 100
 92 55.7 44.6 66.8
 134 23.7 19.0 28.4

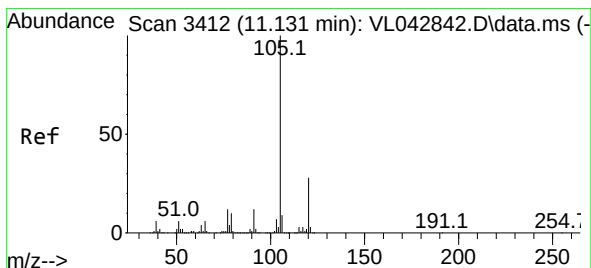
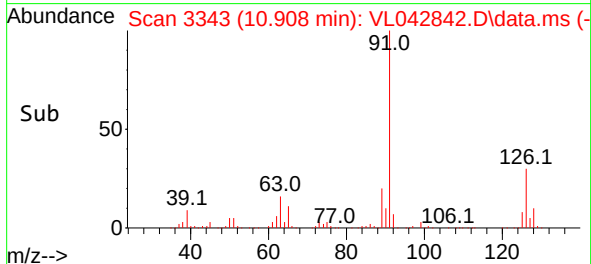
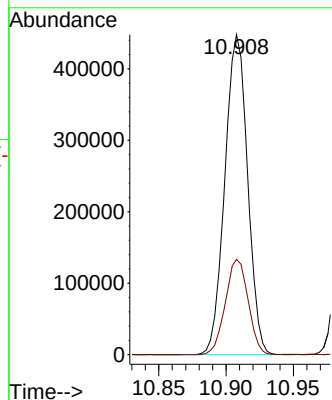
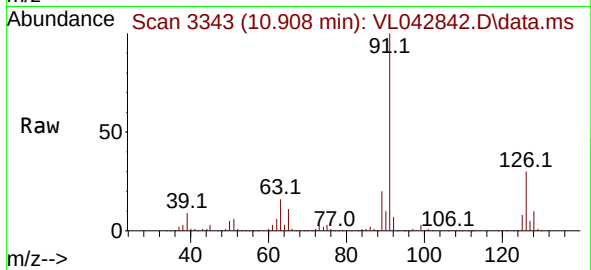




#71
2-Chlorotoluene
Concen: 8.981 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

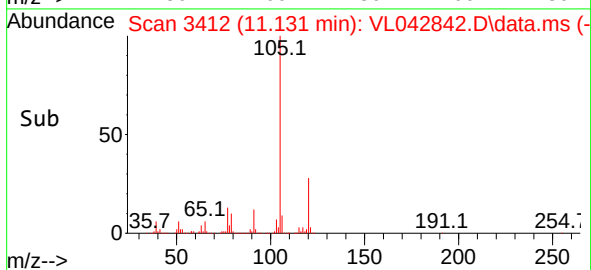
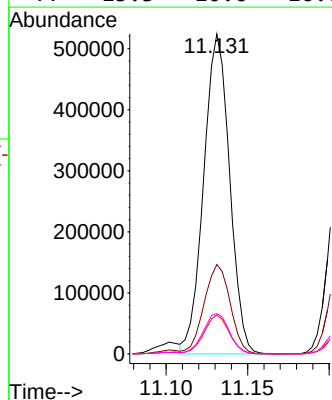
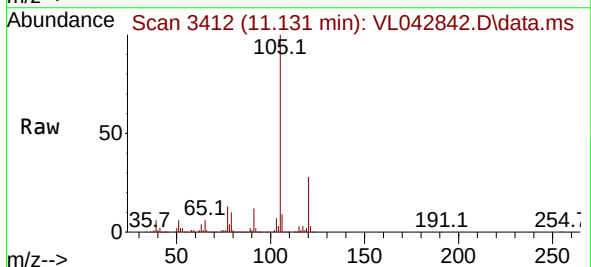
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

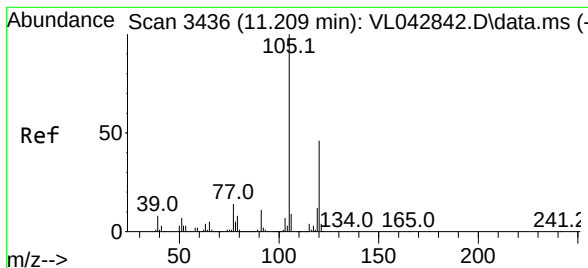
Tgt Ion: 91 Resp: 525235
Ion Ratio Lower Upper
91 100
126 29.9 12.0 47.8



#72
4-Ethyltoluene
Concen: 9.267 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 105 Resp: 578931
Ion Ratio Lower Upper
105 100
120 29.3 23.4 35.2
91 12.2 9.8 14.6
77 13.3 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 9.012 ppbv

RT: 11.209 min Scan# 3436

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_1

ClientSampleId :

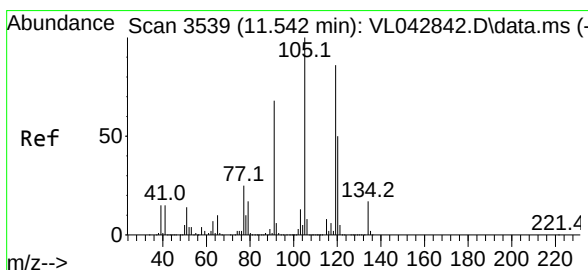
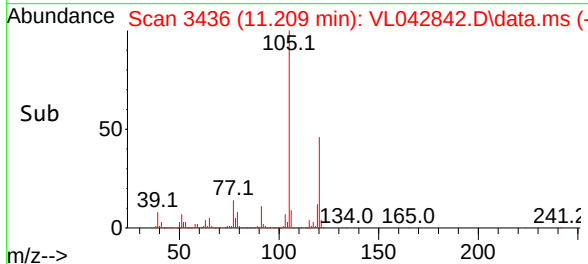
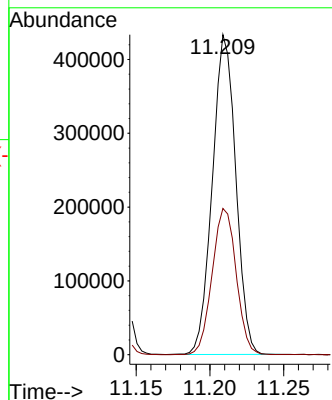
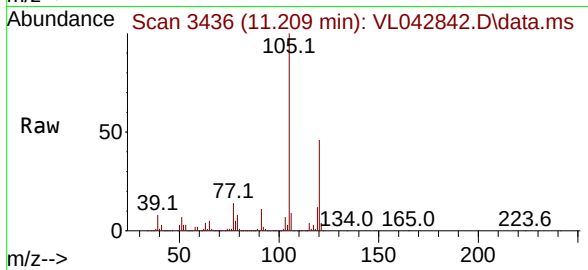
VSTDICCC010

Tgt Ion:105 Resp: 478784

Ion Ratio Lower Upper

105 100

120 45.7 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 8.853 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Tgt Ion:105 Resp: 516253

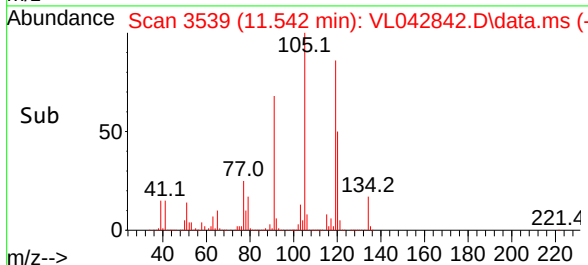
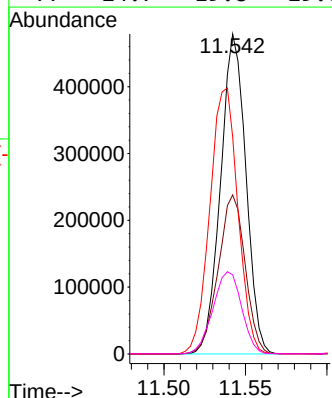
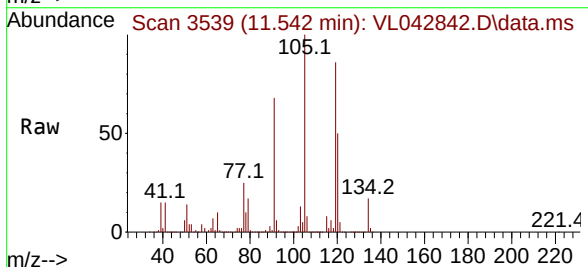
Ion Ratio Lower Upper

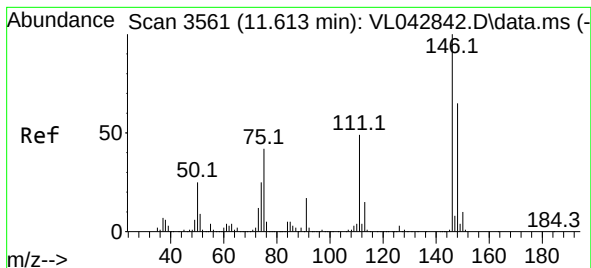
105 100

120 49.7 39.8 59.6

91 67.8 54.2 81.4

77 24.7 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 9.280 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

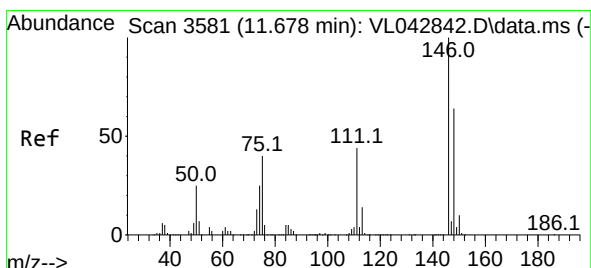
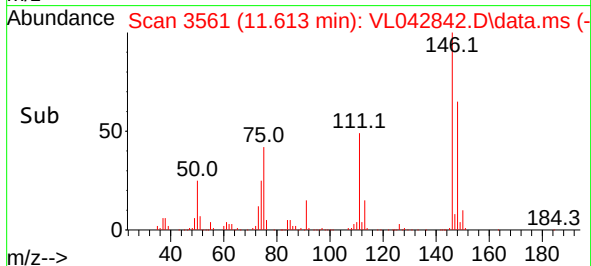
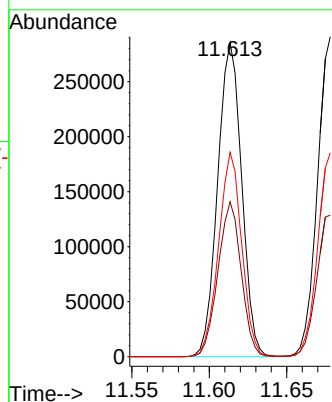
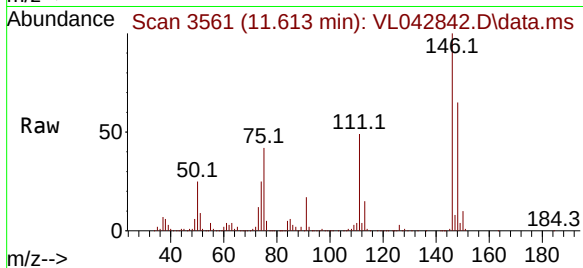
Tgt Ion:146 Resp: 307640

Ion Ratio Lower Upper

146 100

111 47.8 23.9 71.7

148 62.7 31.4 94.0



#76

1,4-Dichlorobenzene

Concen: 9.203 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

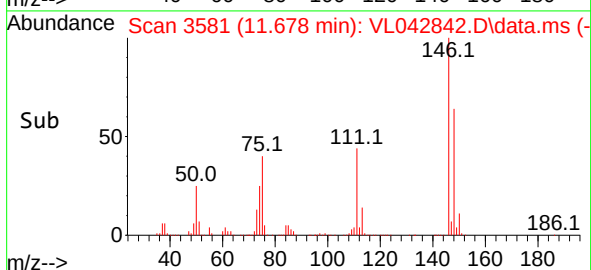
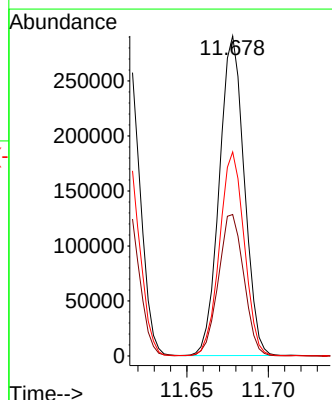
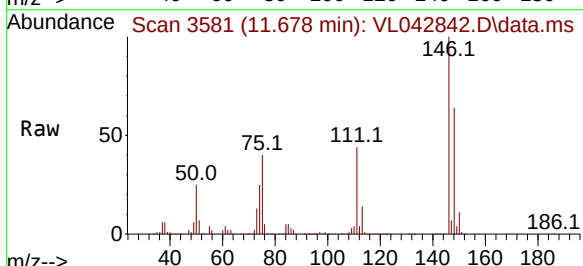
Tgt Ion:146 Resp: 308542

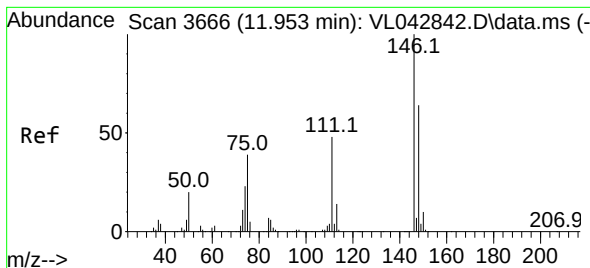
Ion Ratio Lower Upper

146 100

111 45.4 22.7 68.1

148 63.5 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 8.907 ppbv

RT: 11.953 min Scan# 3666

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

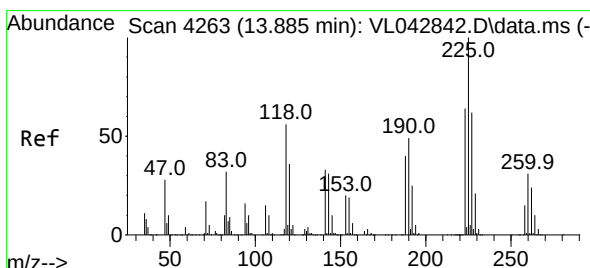
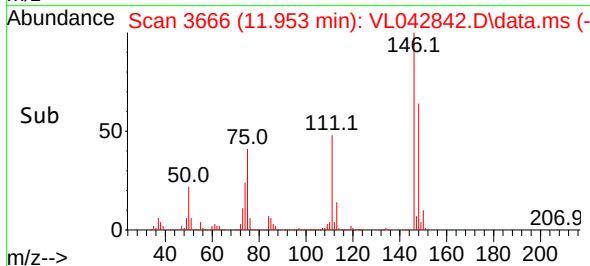
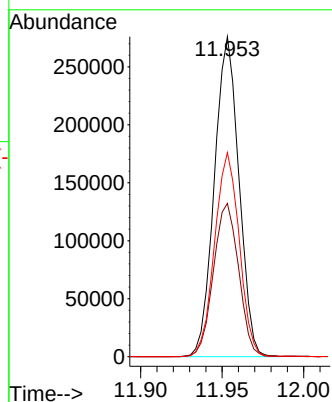
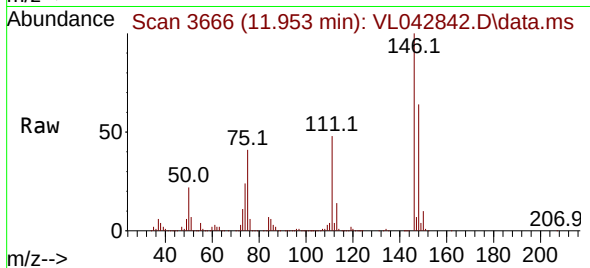
Tgt Ion:146 Resp: 289119

Ion Ratio Lower Upper

146 100

111 49.3 24.6 74.0

148 64.0 32.0 96.0



#78

Hexachloro-1,3-Butadiene

Concen: 7.968 ppbv

RT: 13.885 min Scan# 4263

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

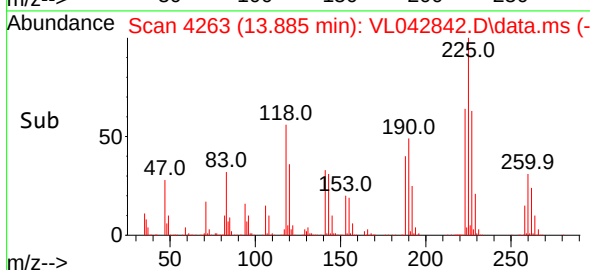
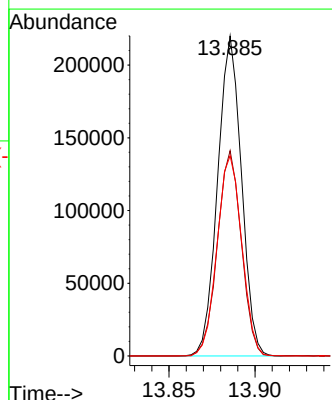
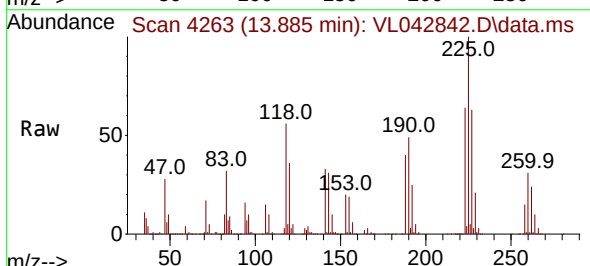
Tgt Ion:225 Resp: 211996

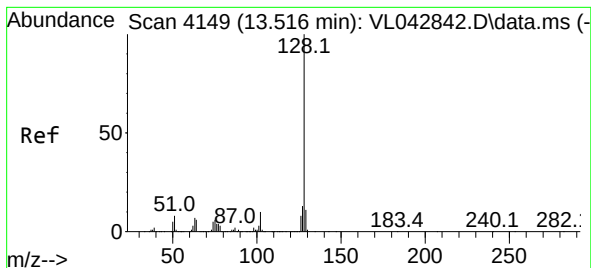
Ion Ratio Lower Upper

225 100

223 64.3 51.4 77.2

227 64.9 51.9 77.9





#79

Naphthalene

Concen: 9.335 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

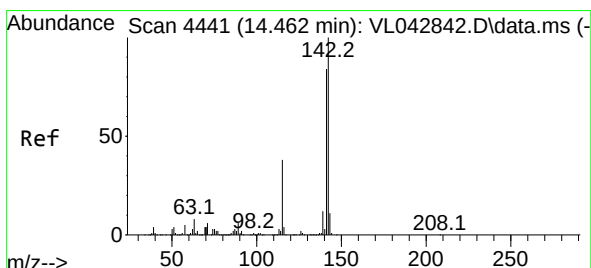
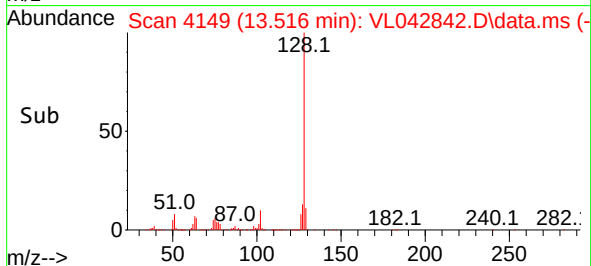
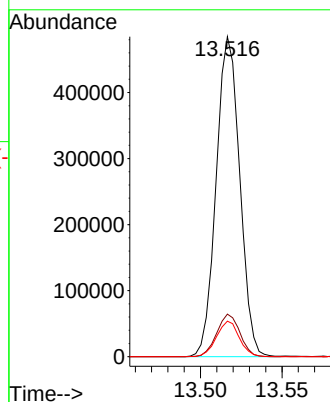
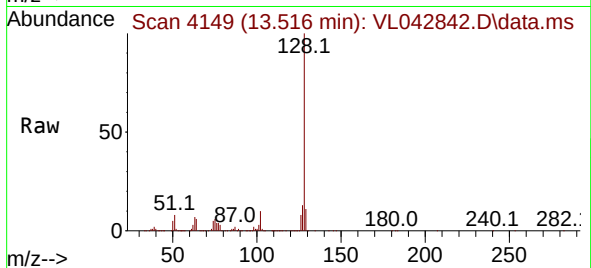
Tgt Ion:128 Resp: 487174

Ion Ratio Lower Upper

128 100

127 13.3 10.6 16.0

129 11.1 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 9.000 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

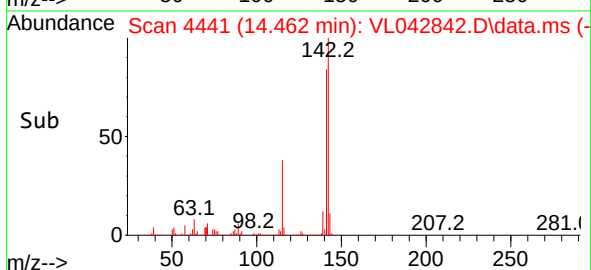
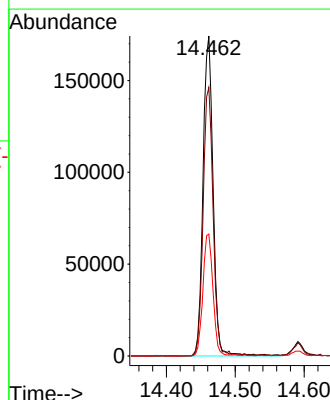
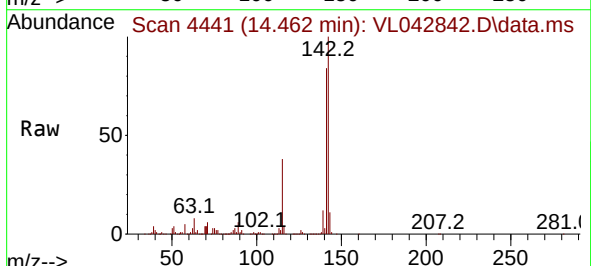
Tgt Ion:142 Resp: 176880

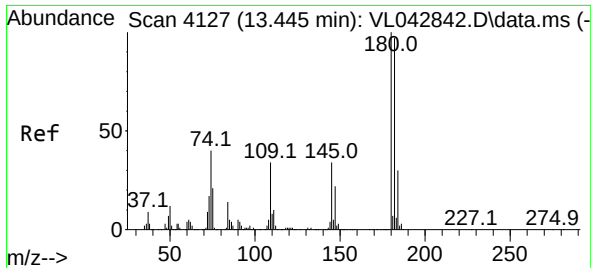
Ion Ratio Lower Upper

142 100

141 83.8 67.0 100.6

115 38.6 30.9 46.3

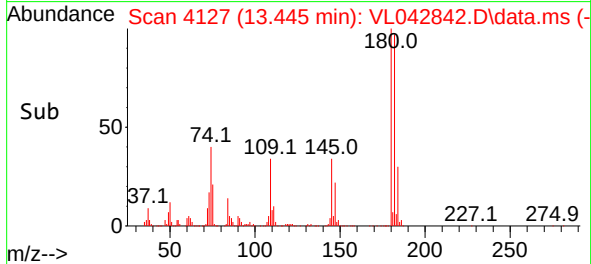
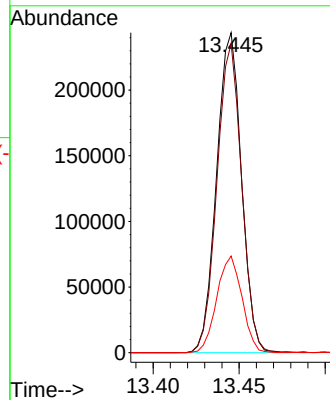
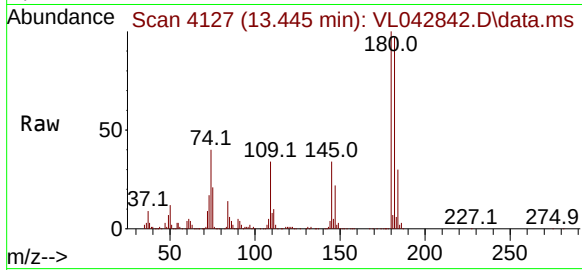




#81
 1,2,4-Trichlorobenzene
 Concen: 9.220 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042842.D
 Acq: 13 Aug 2025 08:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion:180 Resp: 244998
 Ion Ratio Lower Upper
 180 100
 182 96.1 76.9 115.3
 184 30.6 24.5 36.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 Operator : SY/MD
 Sample : VSTDIC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

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 26 06:05:16 2022
 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-Trichlorotrifluo...	2.146	101	31052	2.064	ppbv	99
13) Ethanol	1.725	45	2277	2.516	ppbv	93
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	11947	1.788	ppbv #	74
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	16511	1.030	ppbv #	1
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

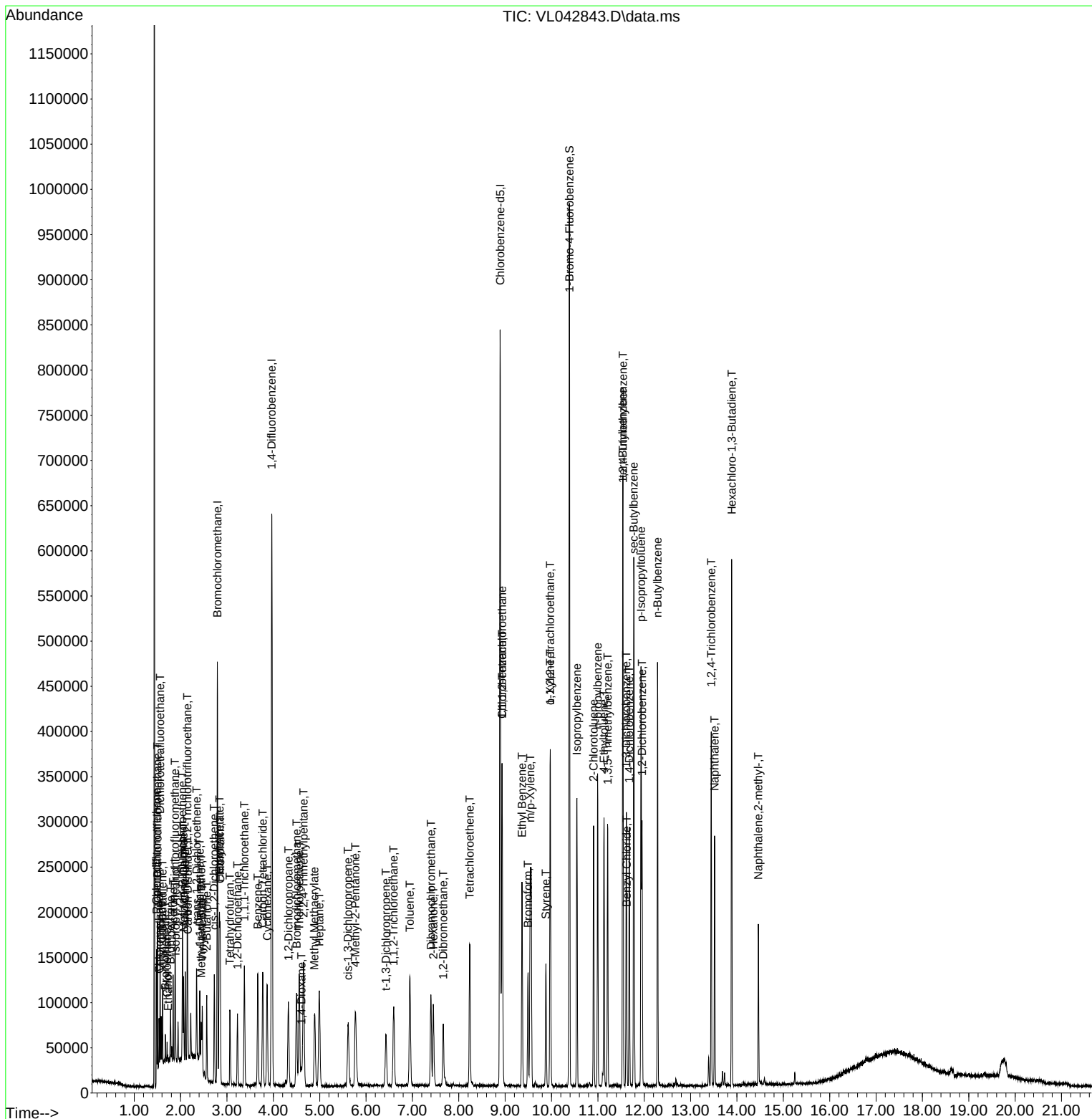
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

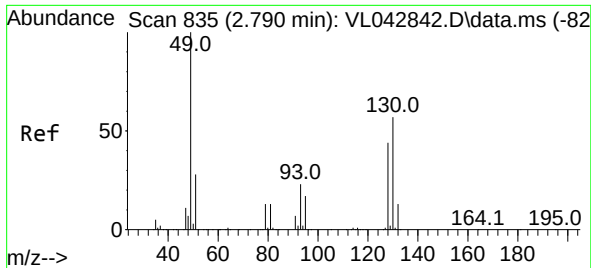
Quant Time: Aug 14 01:46:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	26940	1.180	ppbv	98
47) 1,1,2-Trichloroethane	6.593	97	22158	1.466	ppbv	91
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	9.542	91	100699	1.998	ppbv #	100
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

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 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

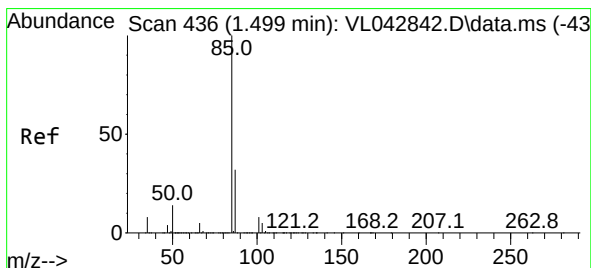
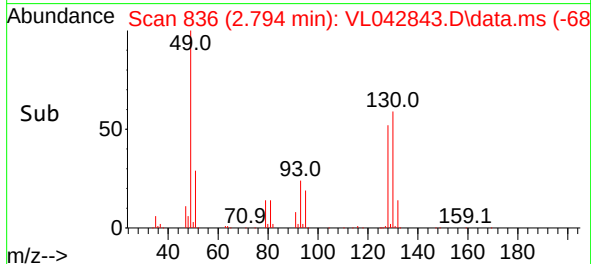
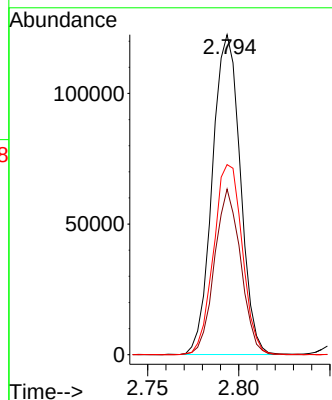
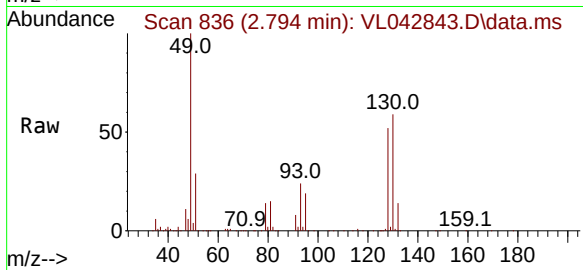




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.794 min Scan# 81
 Delta R.T. 0.004 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

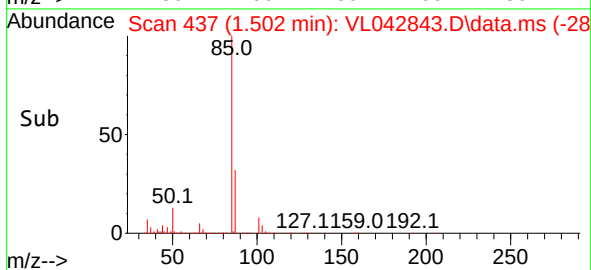
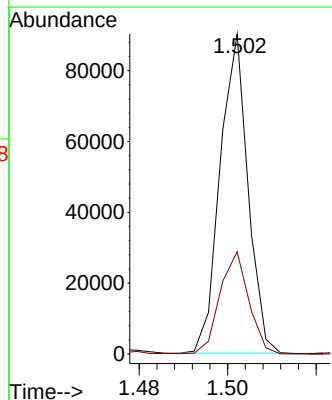
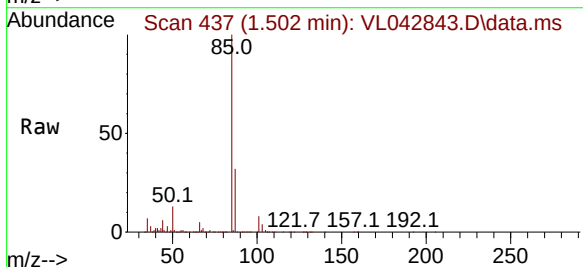
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

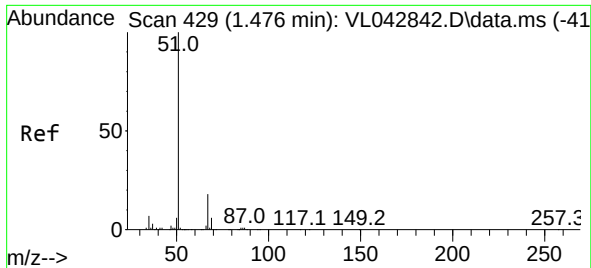
Tgt Ion: 49 Resp: 130555
 Ion Ratio Lower Upper
 49 100
 128 48.7 23.7 71.1
 130 61.3 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 2.061 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion: 85 Resp: 39443
 Ion Ratio Lower Upper
 85 100
 87 32.0 25.3 37.9

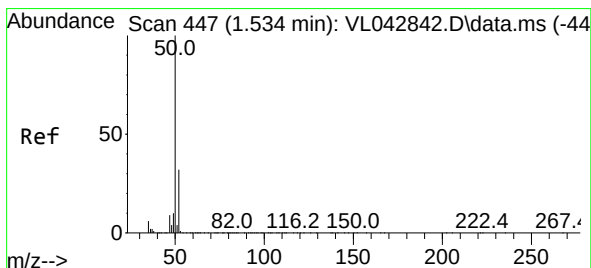
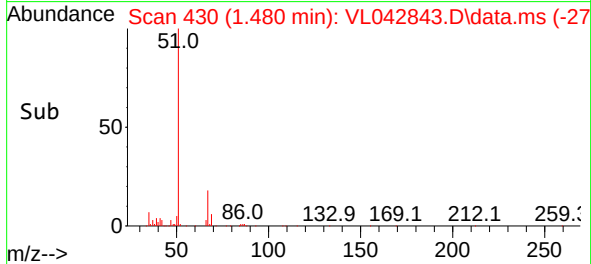
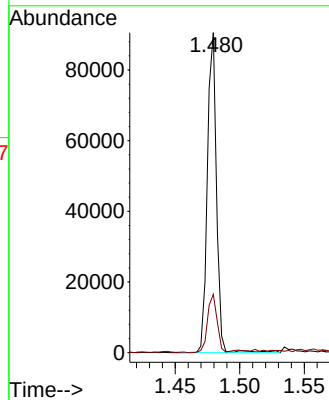
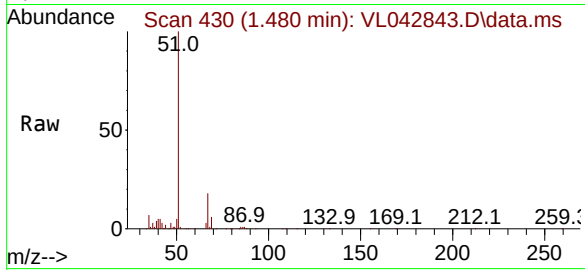




#3
Chlorodifluoromethane
Concen: 2.114 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

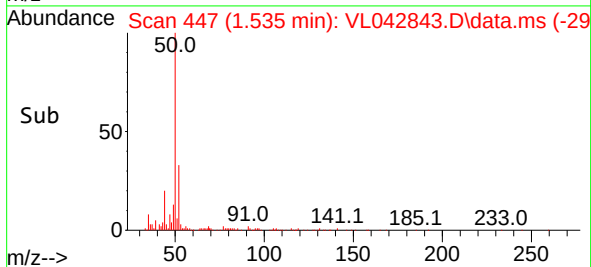
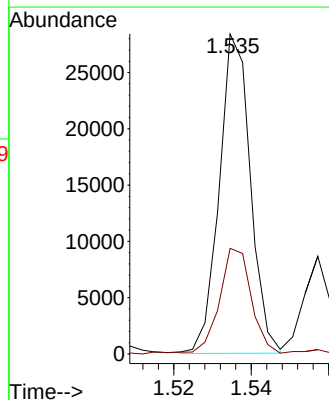
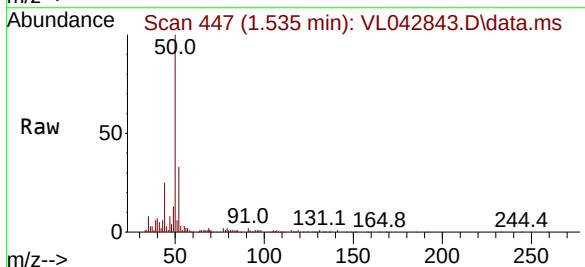
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

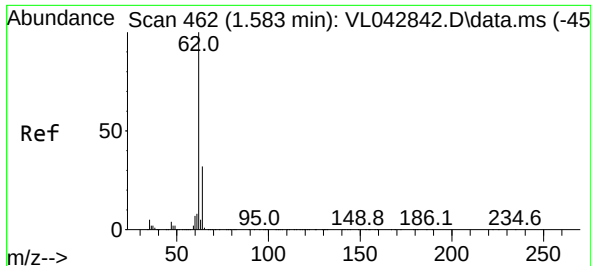
Tgt Ion: 51 Resp: 44759
Ion Ratio Lower Upper
51 100
67 20.3 14.9 22.3



#4
Chloromethane
Concen: 2.050 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 50 Resp: 15826
Ion Ratio Lower Upper
50 100
52 33.0 25.9 38.9

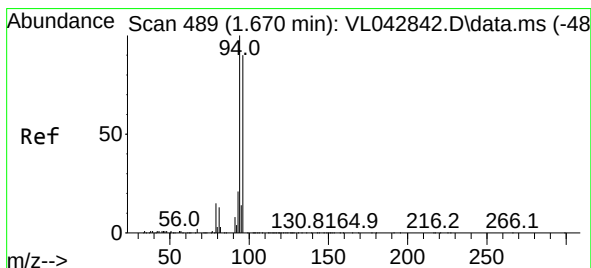
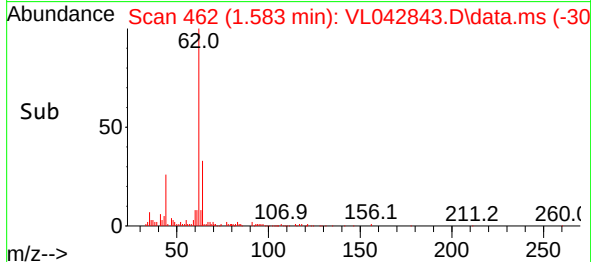
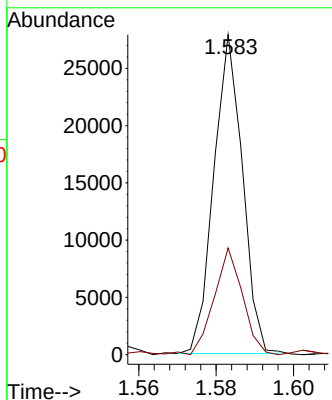
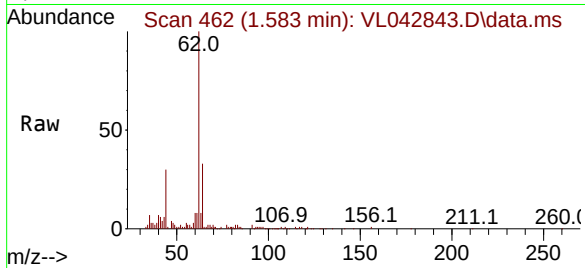




#5
 Vinyl Chloride
 Concen: 1.888 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

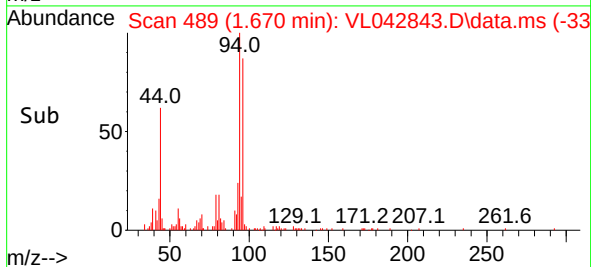
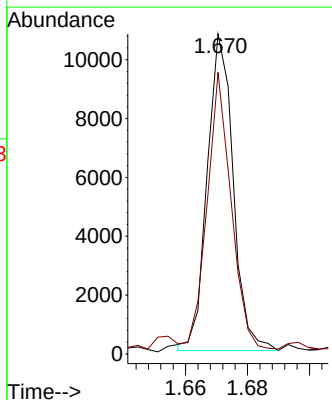
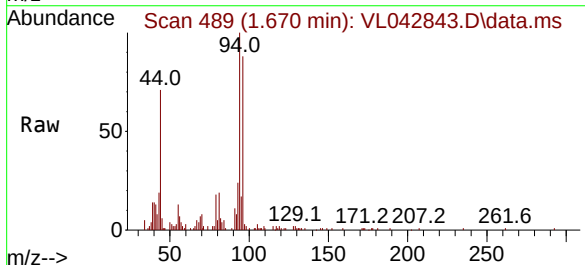
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

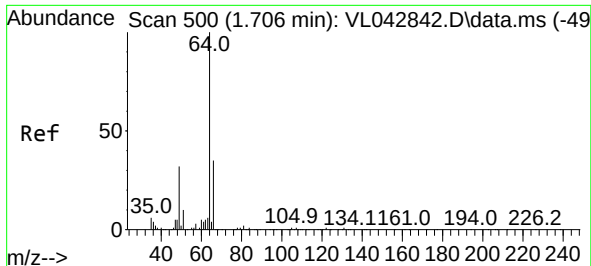
Tgt Ion: 62 Resp: 14358
 Ion Ratio Lower Upper
 62 100
 64 33.5 25.4 38.2



#6
 Bromomethane
 Concen: 2.055 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion: 94 Resp: 6248
 Ion Ratio Lower Upper
 94 100
 96 87.4 72.1 108.1

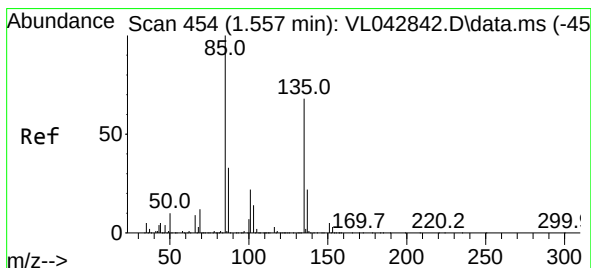
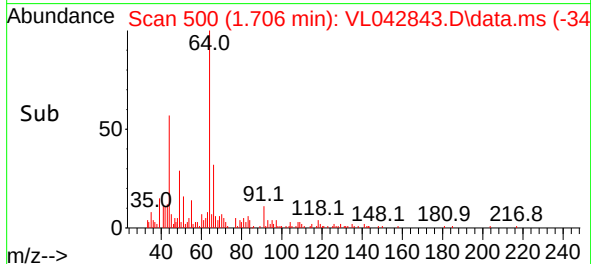
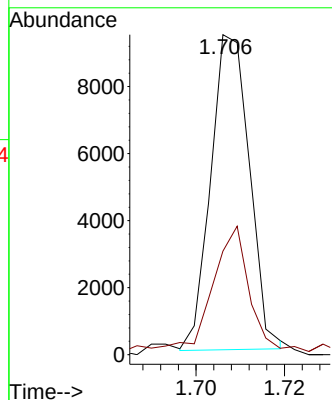
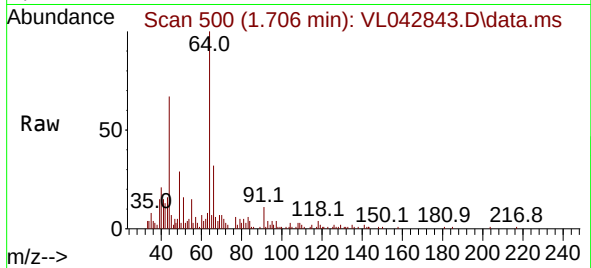




#7
Chloroethane
Concen: 1.925 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

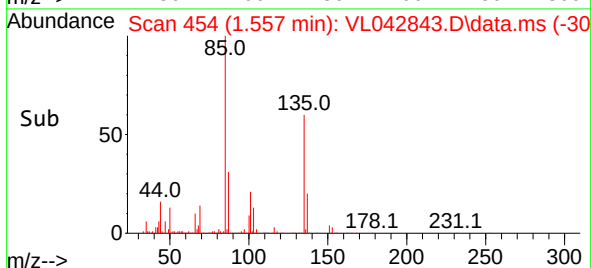
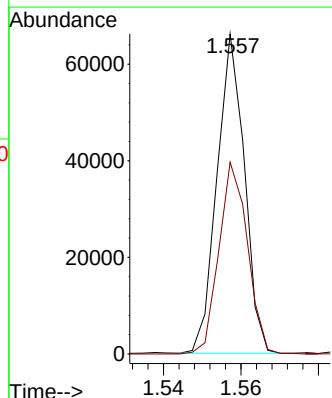
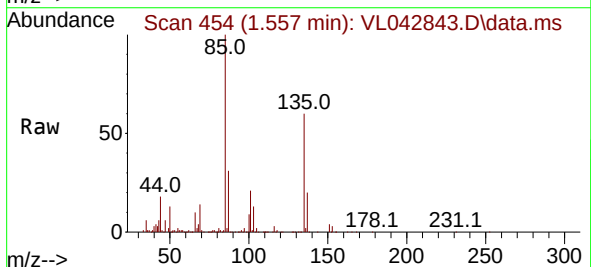
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

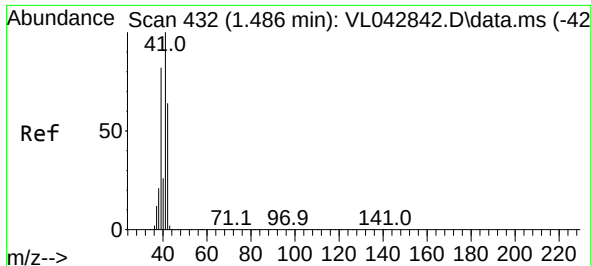
Tgt Ion: 64 Resp: 5717
Ion Ratio Lower Upper
64 100
66 32.3 28.6 42.8



#8
Dichlorotetrafluoroethane
Concen: 2.075 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 85 Resp: 32496
Ion Ratio Lower Upper
85 100
135 62.7 51.2 76.8





#9

Propene

Concen: 2.045 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

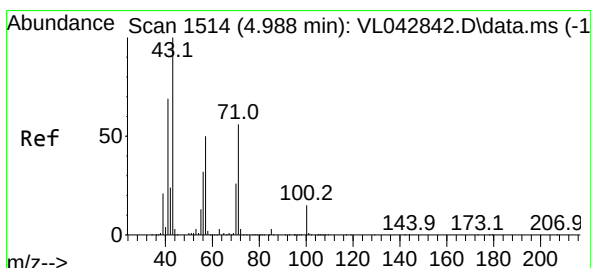
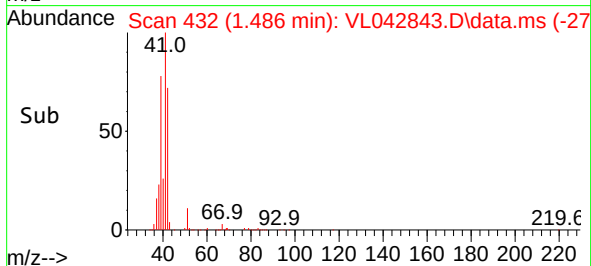
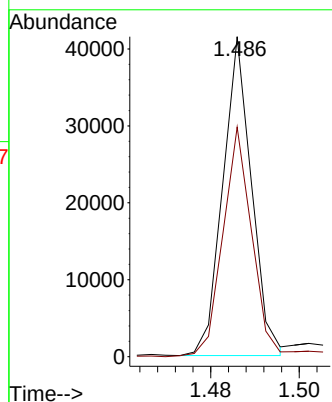
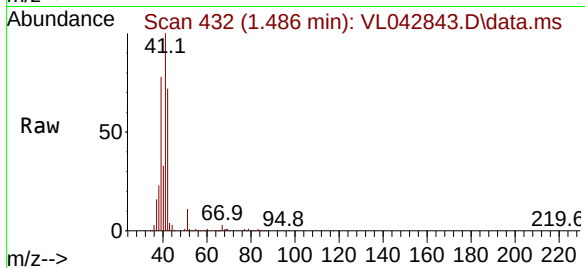
VSTDIC002

Tgt Ion: 41 Resp: 18678

Ion Ratio Lower Upper

41 100

42 74.8 53.0 79.4



#10

Heptane

Concen: 2.050 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.003 min

Lab File: VL042843.D

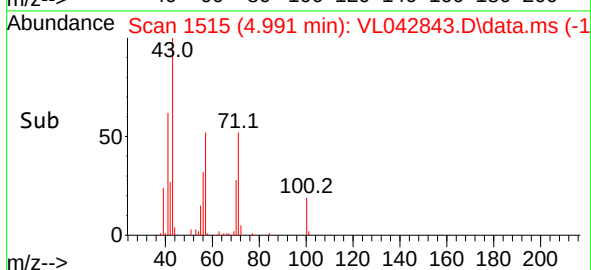
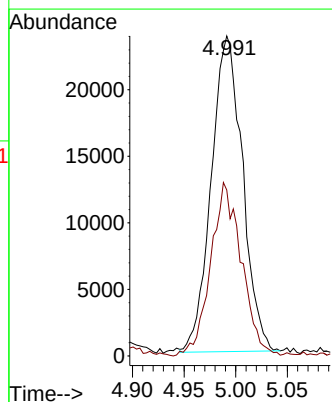
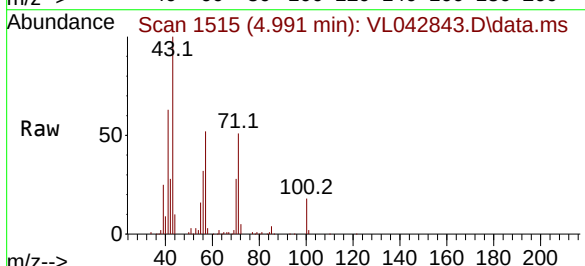
Acq: 13 Aug 2025 09:06

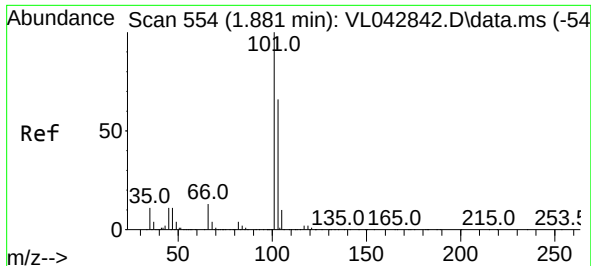
Tgt Ion: 43 Resp: 50062

Ion Ratio Lower Upper

43 100

57 54.1 41.4 62.0

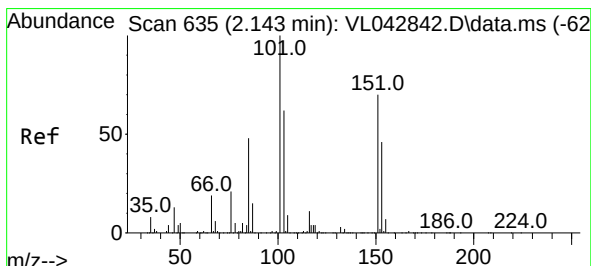
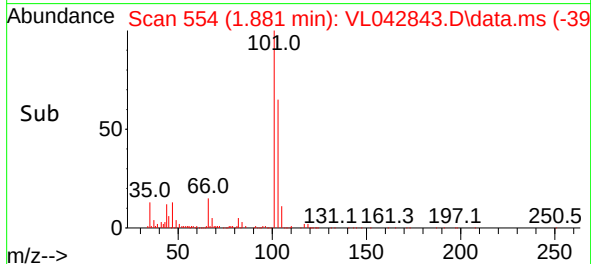
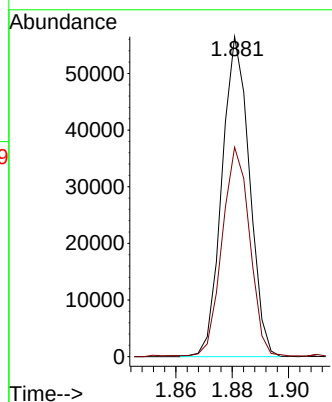
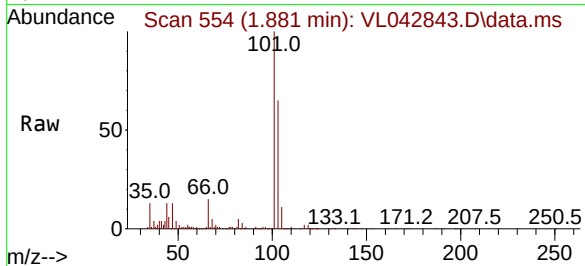




#11
 Trichlorofluoromethane
 Concen: 2.029 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

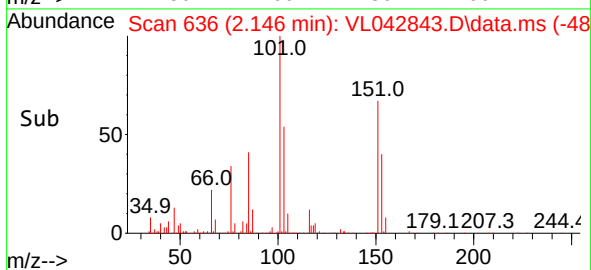
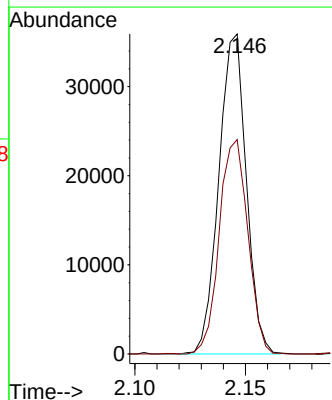
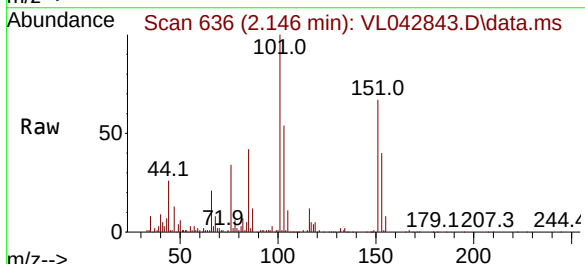
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

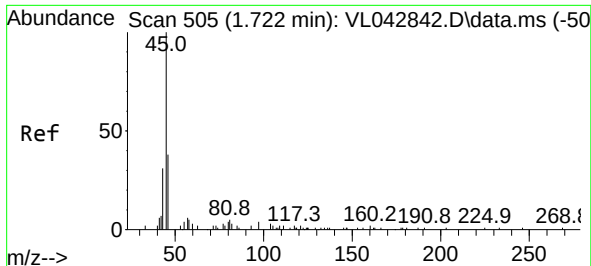
Tgt Ion:101 Resp: 38308
 Ion Ratio Lower Upper
 101 100
 103 65.1 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.064 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion:101 Resp: 31052
 Ion Ratio Lower Upper
 101 100
 151 69.7 56.4 84.6

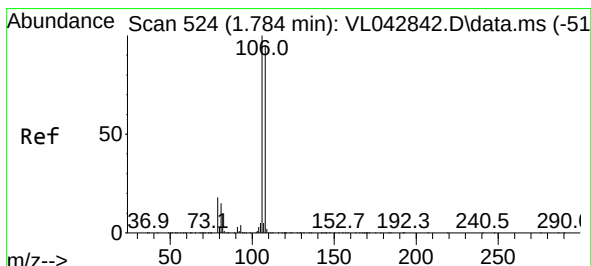
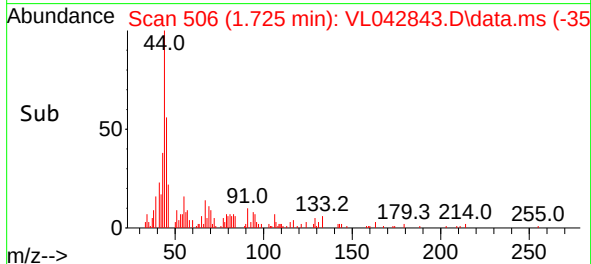
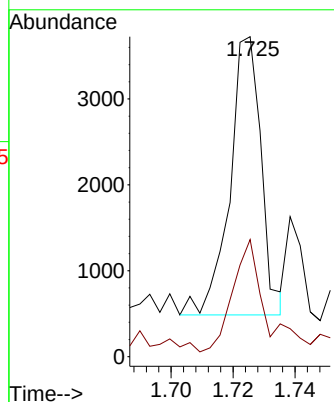
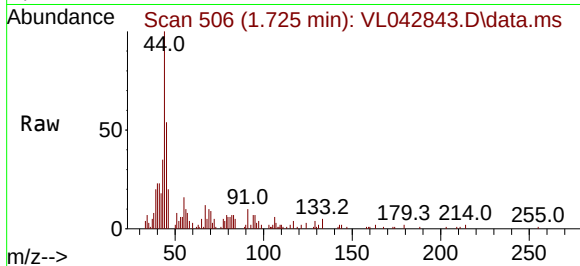




#13
 Ethanol
 Concen: 2.516 ppbv
 RT: 1.725 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

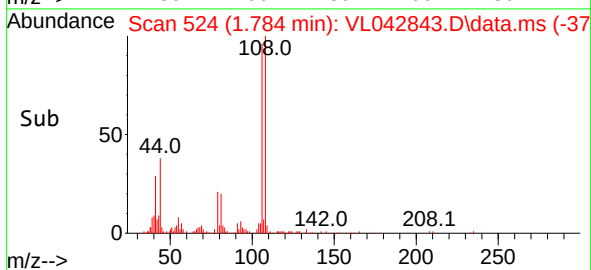
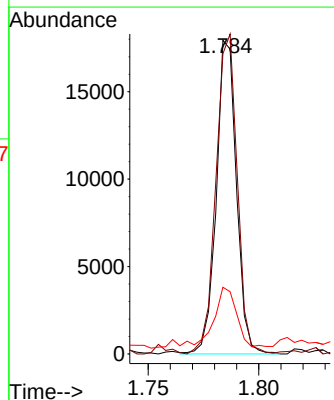
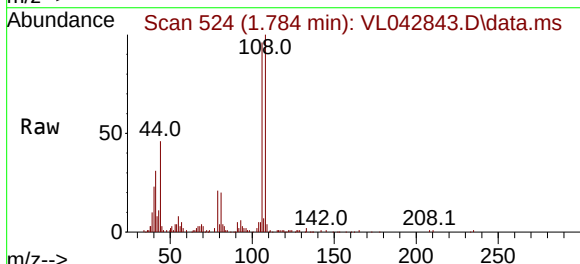
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

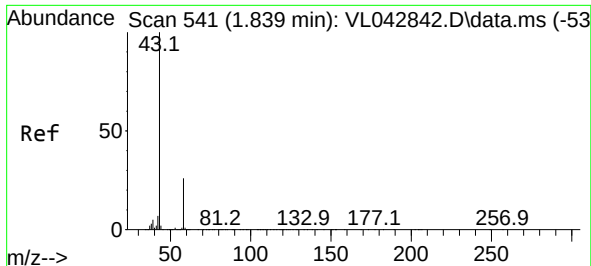
Tgt Ion: 45 Resp: 2277
 Ion Ratio Lower Upper
 45 100
 46 48.3 17.5 69.9



#14
 Bromoethene
 Concen: 2.089 ppbv
 RT: 1.784 min Scan# 524
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion: 108 Resp: 11376
 Ion Ratio Lower Upper
 108 100
 106 110.8 85.1 127.7
 79 22.6 16.3 24.5

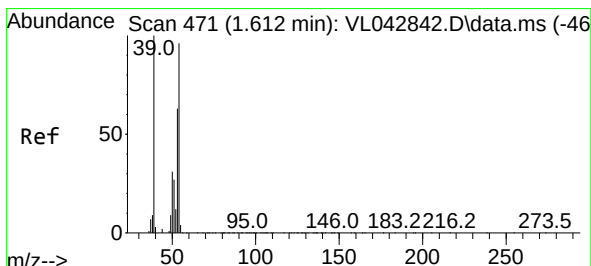
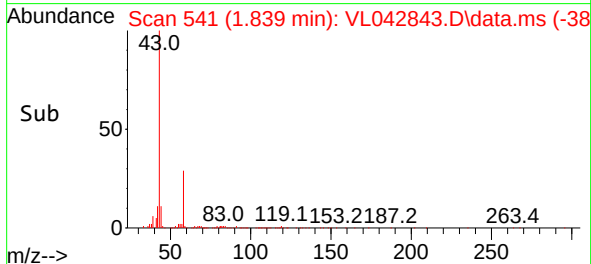
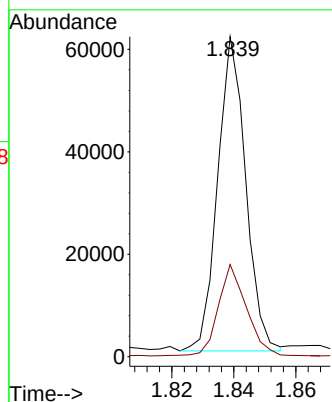
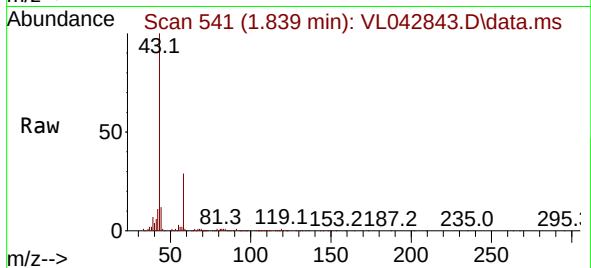




#15
Acetone
Concen: 2.231 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

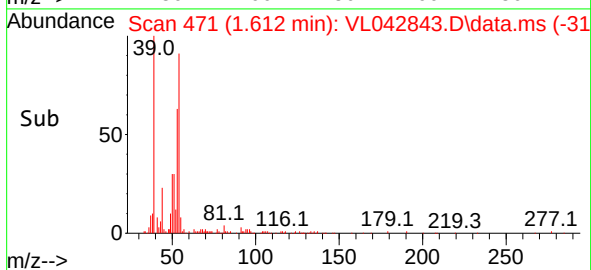
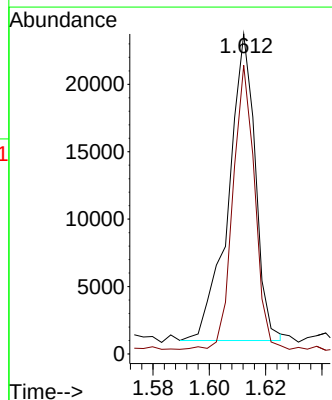
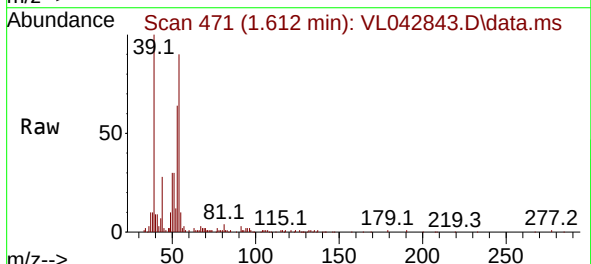
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

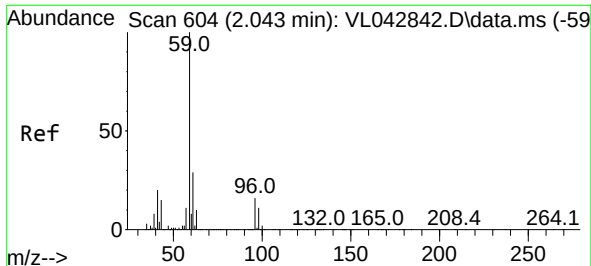
Tgt Ion: 43 Resp: 38531
Ion Ratio Lower Upper
43 100
58 30.3 22.4 33.6



#16
1,3-Butadiene
Concen: 1.932 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 39 Resp: 15122
Ion Ratio Lower Upper
39 100
54 80.8 63.6 95.4





#17

tert-Butyl alcohol

Concen: 1.985 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_1

ClientSampleId :

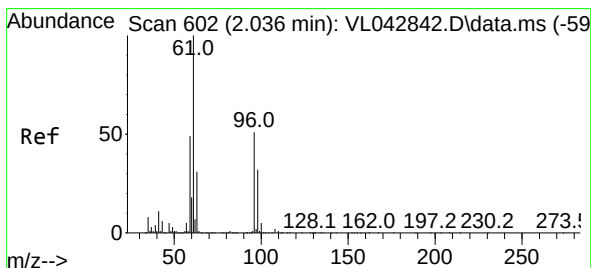
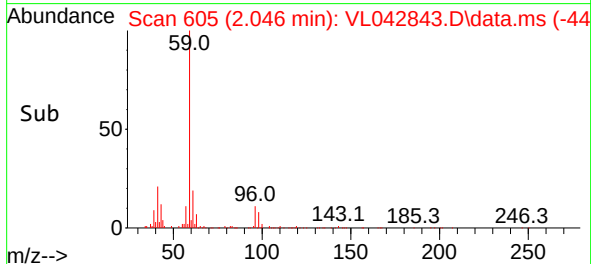
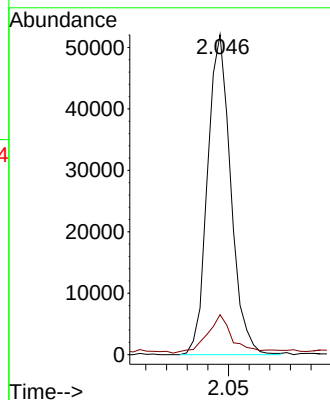
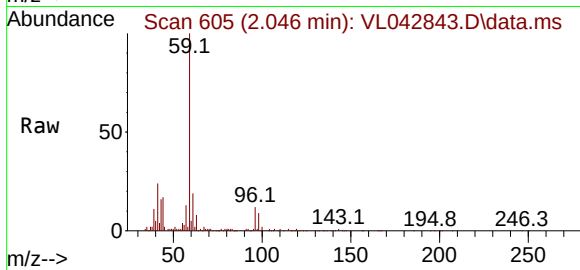
VSTDIC002

Tgt Ion: 59 Resp: 40652

Ion Ratio Lower Upper

59 100

57 12.4 9.0 13.4



#18

1,1-Dichloroethene

Concen: 2.099 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

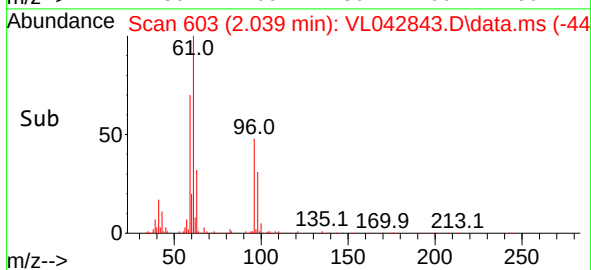
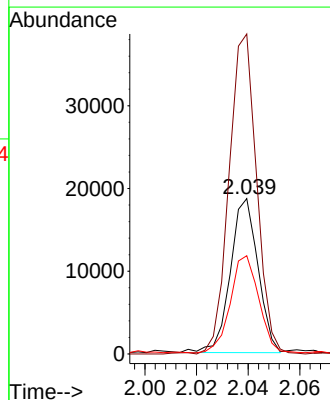
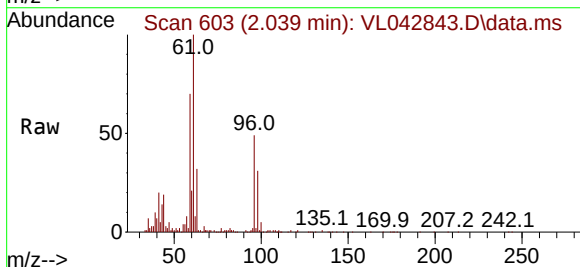
Tgt Ion: 96 Resp: 13883

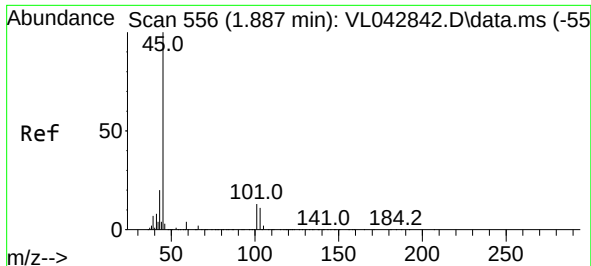
Ion Ratio Lower Upper

96 100

61 207.1 158.2 237.4

98 62.6 50.6 76.0





#19

Isopropyl Alcohol

Concen: 2.023 ppbv

RT: 1.891 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

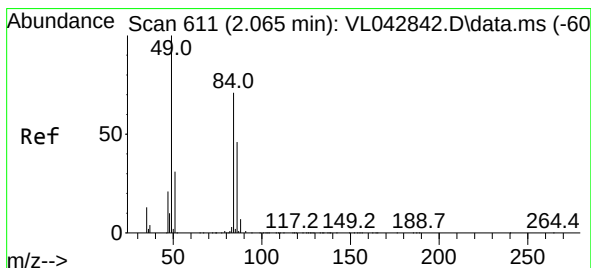
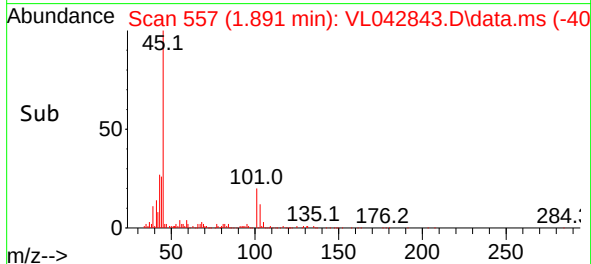
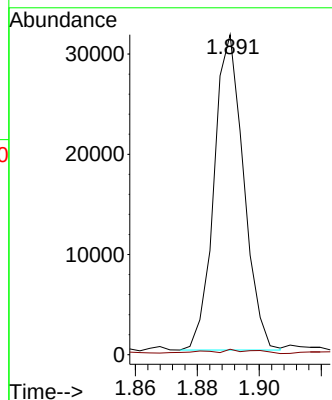
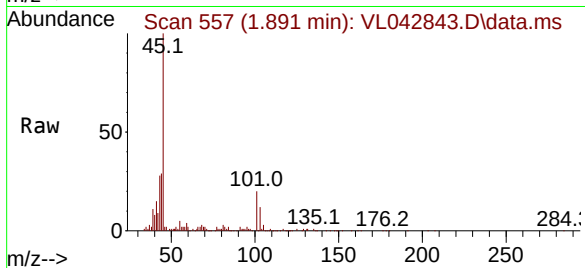
VSTDICC002

Tgt Ion: 45 Resp: 20866

Ion Ratio Lower Upper

45 100

58 3.1 32.7 49.1#



#20

Methylene Chloride

Concen: 1.963 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Tgt Ion: 84 Resp: 14204

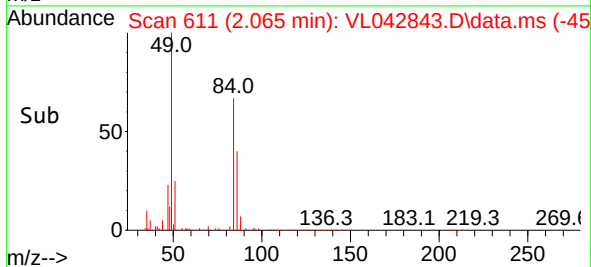
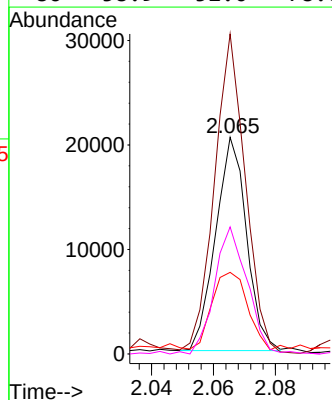
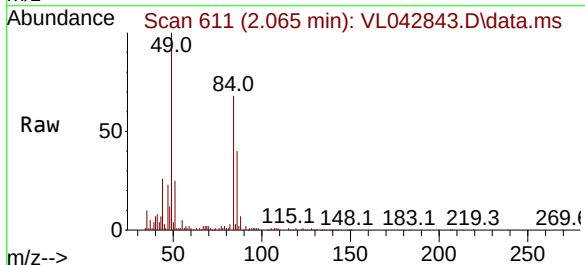
Ion Ratio Lower Upper

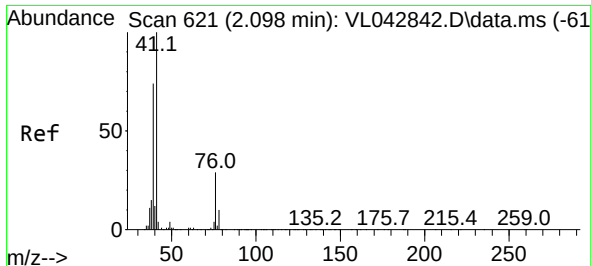
84 100

49 148.1 112.3 168.5

51 35.3 36.0 54.0#

86 58.9 52.0 78.0

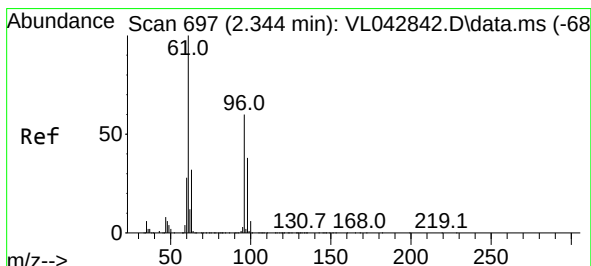
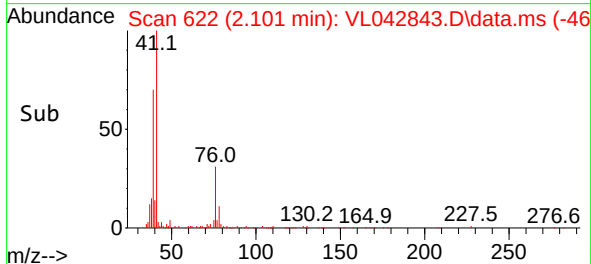
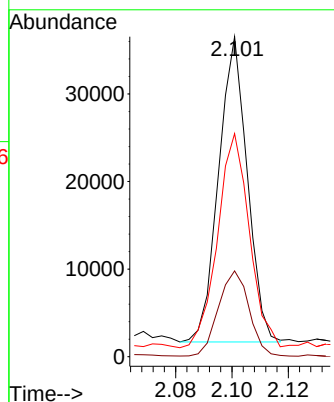
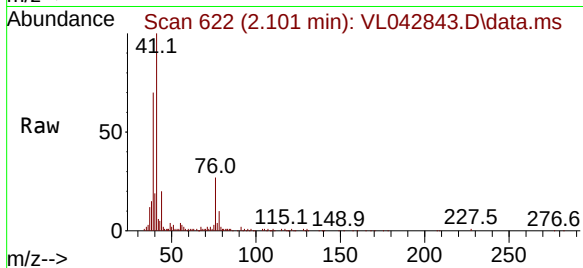




#21
 Allyl Chloride
 Concen: 2.021 ppbv
 RT: 2.101 min Scan# 611
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

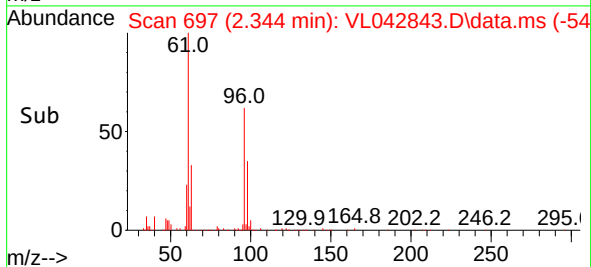
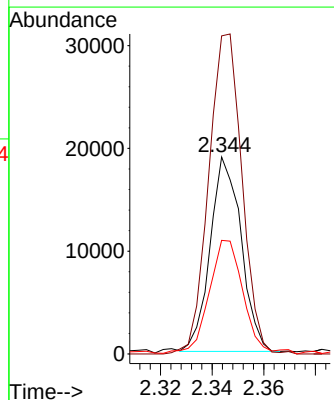
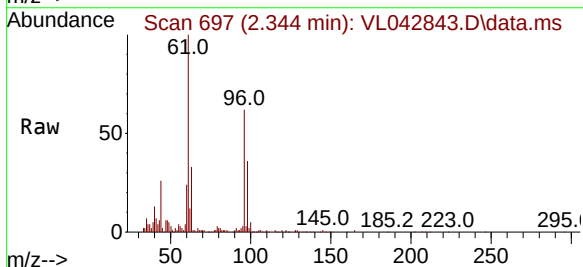
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

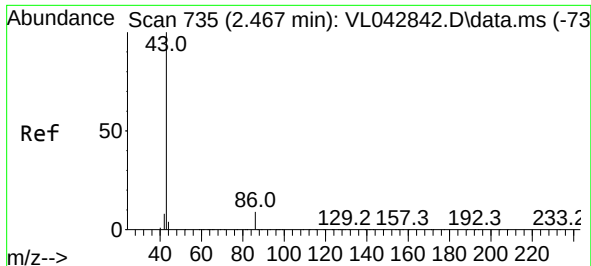
Tgt Ion: 41 Resp: 24662
 Ion Ratio Lower Upper
 41 100
 76 31.2 23.9 35.9
 39 76.0 57.8 86.6



#22
 trans-1,2-Dichloroethene
 Concen: 2.132 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion: 96 Resp: 15773
 Ion Ratio Lower Upper
 96 100
 61 162.8 132.6 199.0
 98 56.7 50.0 75.0

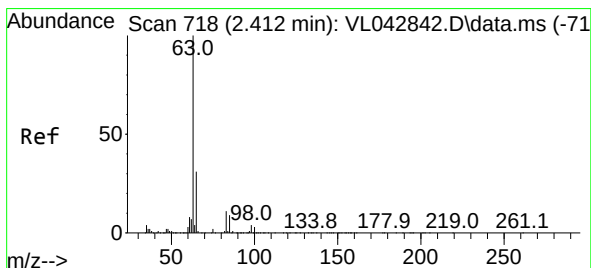
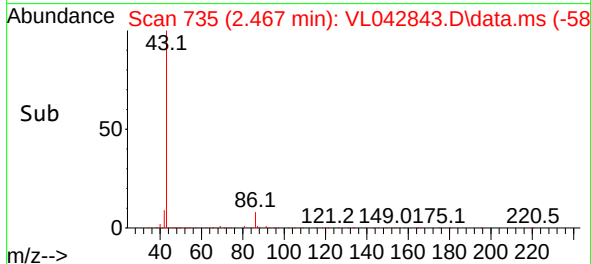
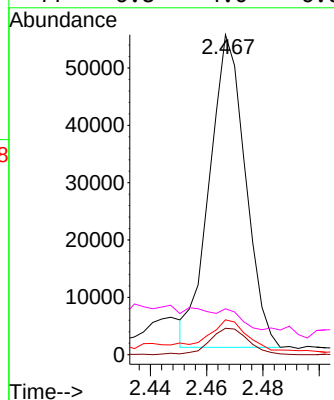
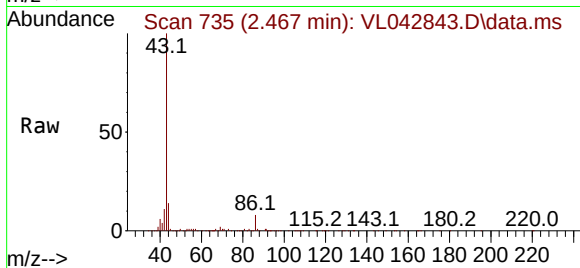




#23
 Vinyl Acetate
 Concen: 2.125 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

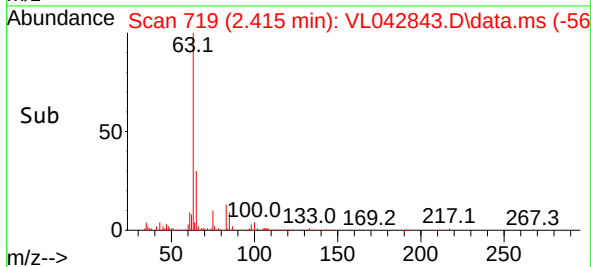
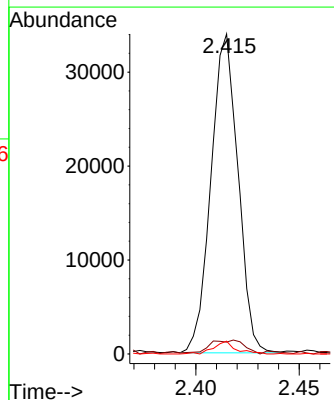
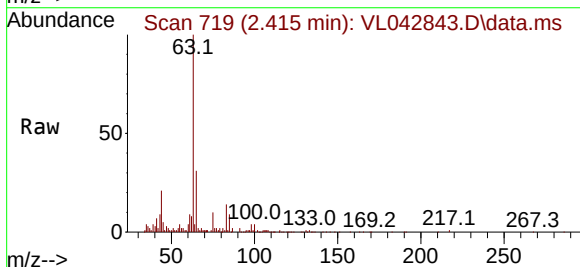
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

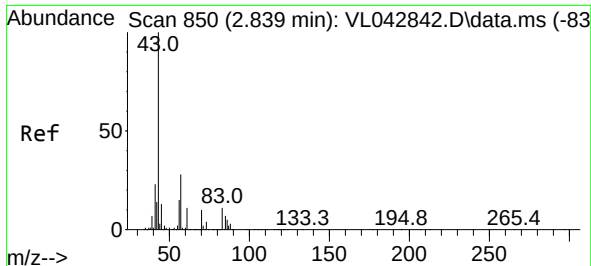
Tgt Ion:	43	Resp:	48269
Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8
42	9.7	7.0	10.6
44	6.8	4.0	6.0



#24
 1,1-Dichloroethane
 Concen: 2.024 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion:	63	Resp:	30931
Ion	Ratio	Lower	Upper
63	100		
98	3.4	2.1	6.5
100	4.0	1.7	5.1

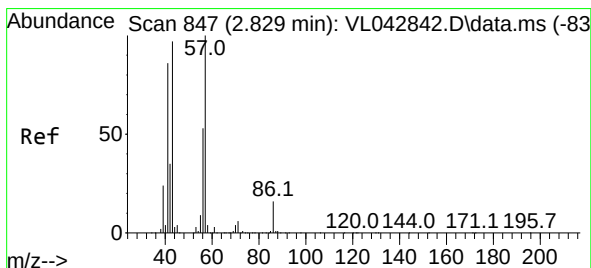
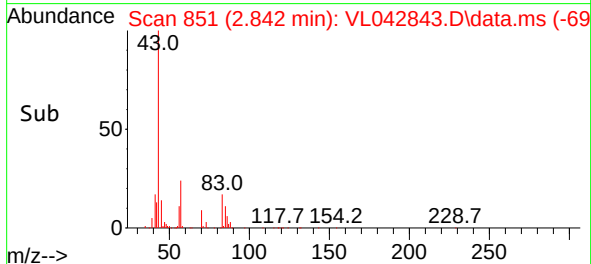
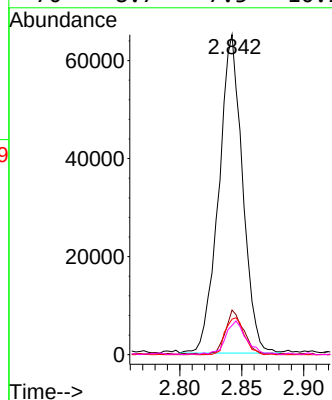
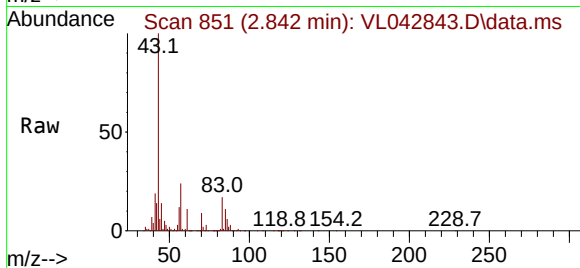




#25
Ethyl Acetate
Concen: 2.077 ppbv
RT: 2.842 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

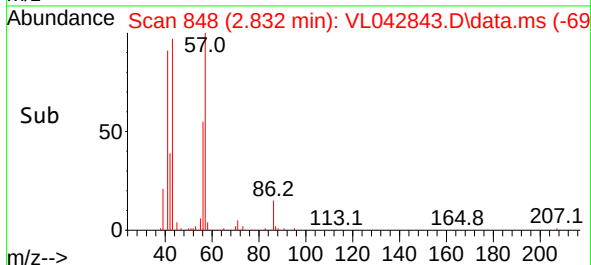
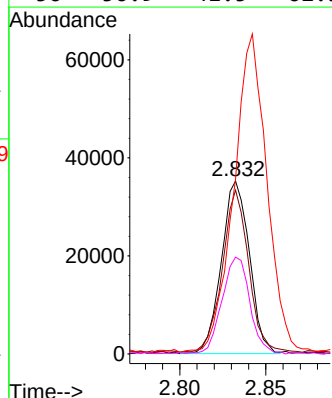
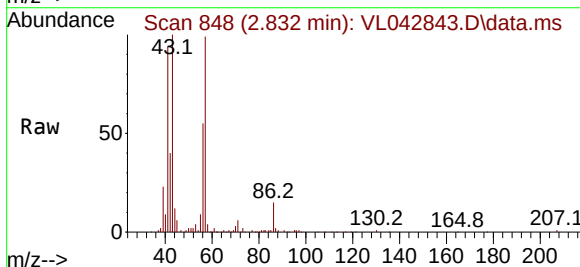
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

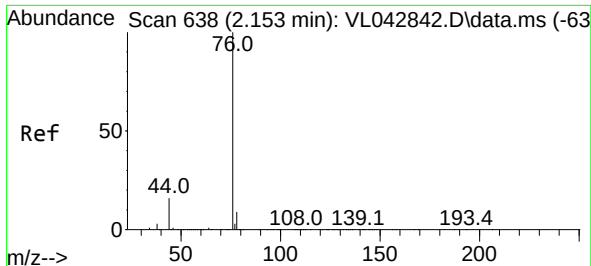
Tgt Ion: 43	Resp: 86804
Ion Ratio	Lower Upper
43 100	
45 11.4	8.1 12.1
61 9.4	7.4 11.2
70 8.7	7.3 10.9



#26
Hexane
Concen: 2.060 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt	Ion: 57	Resp:	39735
	Ratio	Lower	Upper
57	100		
41	90.3	68.6	103.0
43	219.4	168.5	252.7
56	56.9	41.5	62.3





#27

Carbon Disulfide

Concen: 2.102 ppbv

RT: 2.156 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

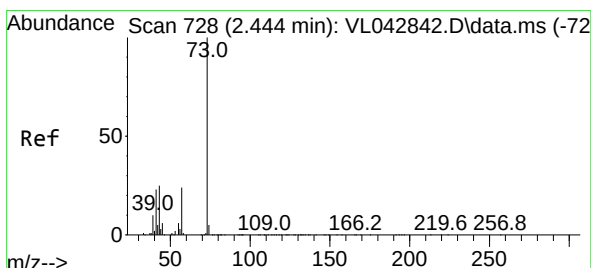
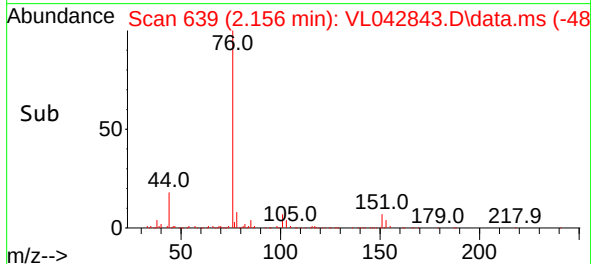
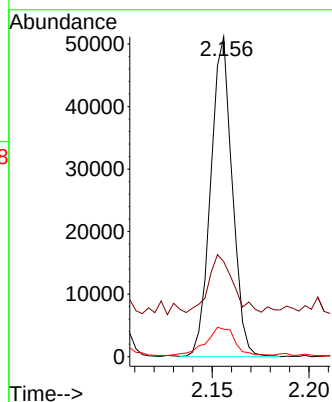
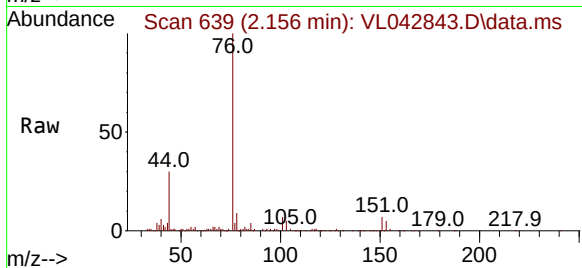
Tgt Ion: 76 Resp: 39466

Ion Ratio Lower Upper

76 100

44 81.0 15.9 23.9#

78 13.8 9.5 14.3



#28

Methyl tert-Butyl Ether

Concen: 2.169 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.000 min

Lab File: VL042843.D

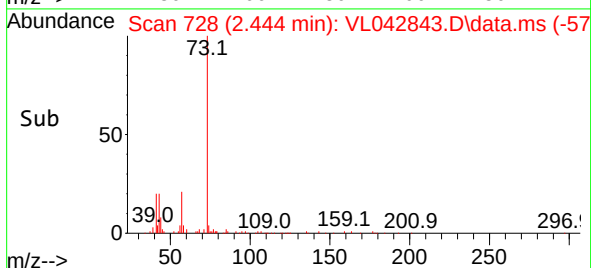
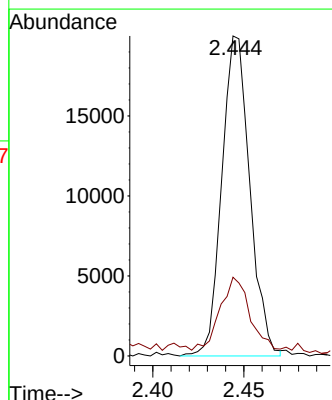
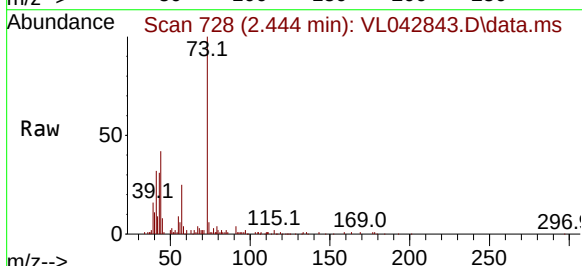
Acq: 13 Aug 2025 09:06

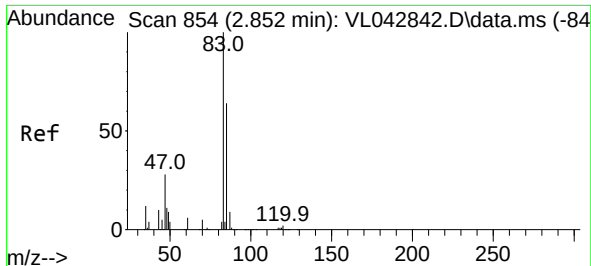
Tgt Ion: 73 Resp: 21341

Ion Ratio Lower Upper

73 100

57 24.8 21.6 32.4





#29

Chloroform

Concen: 2.053 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

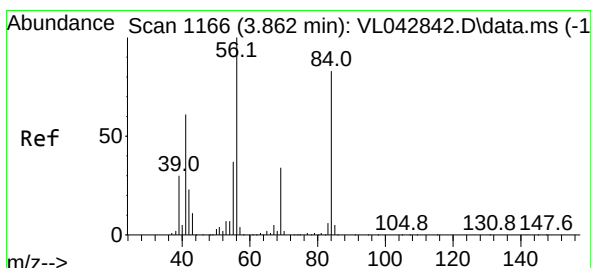
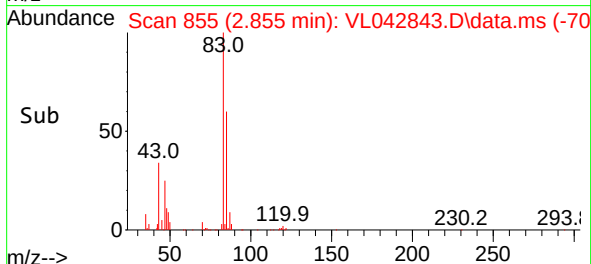
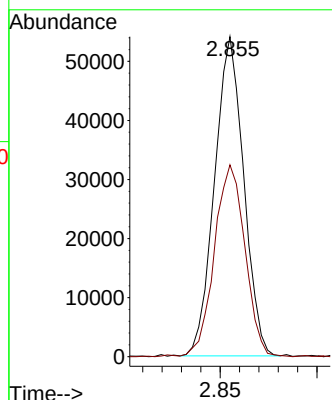
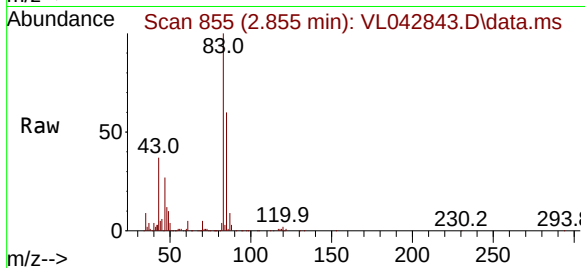
VSTDICC002

Tgt Ion: 83 Resp: 56553

Ion Ratio Lower Upper

83 100

85 59.9 51.1 76.7



#30

Cyclohexane

Concen: 2.069 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.007 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

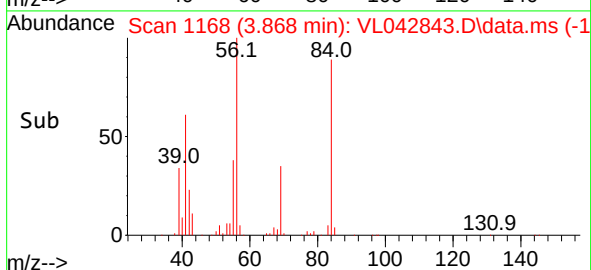
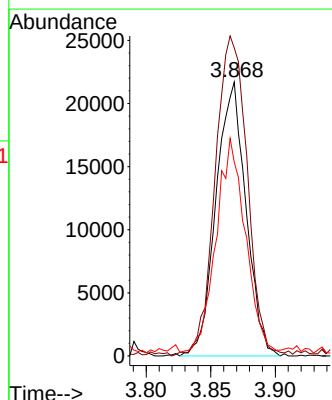
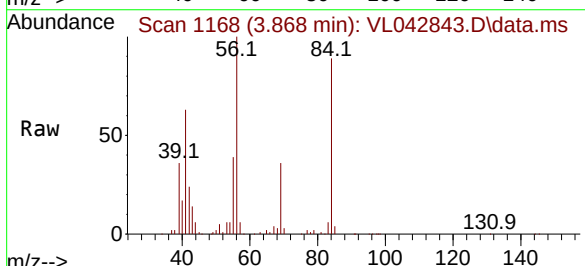
Tgt Ion: 84 Resp: 34992

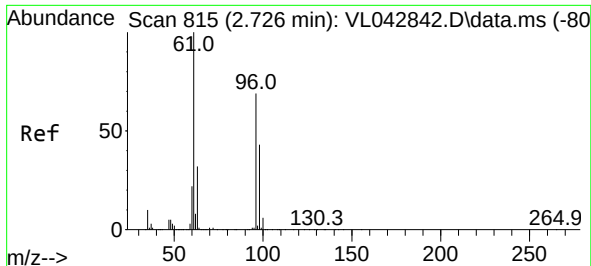
Ion Ratio Lower Upper

84 100

56 123.9 98.8 148.2

41 79.6 61.3 91.9

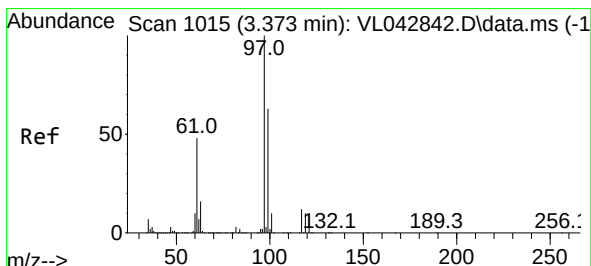
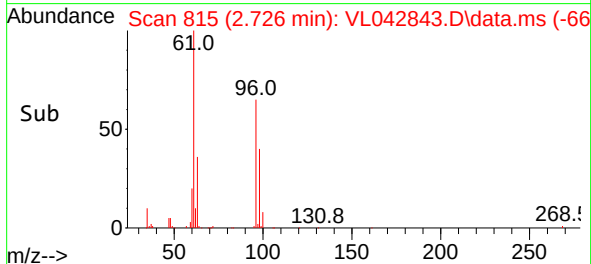
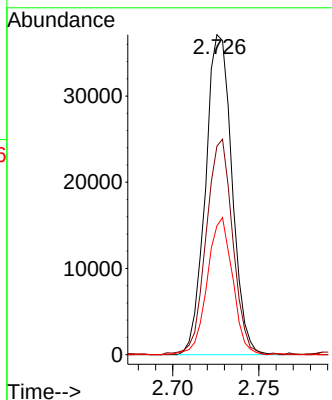
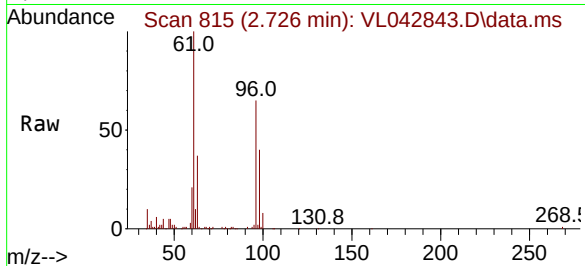




#31
 cis-1,2-Dichloroethene
 Concen: 2.062 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

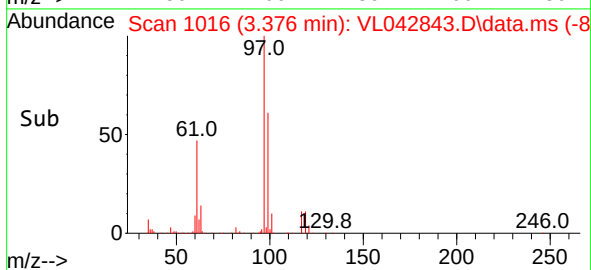
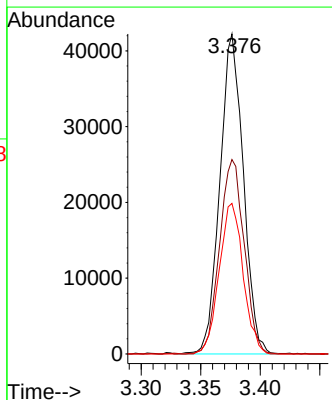
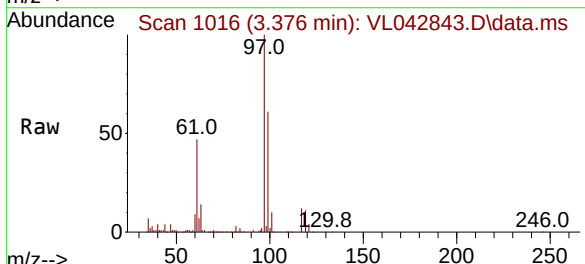
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

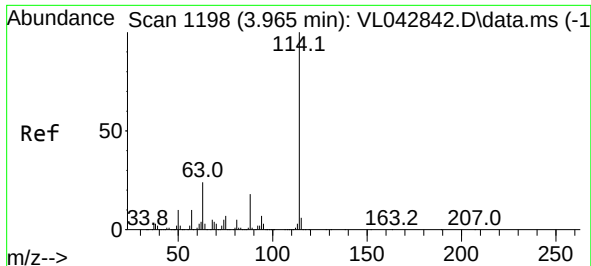
Tgt Ion:	61	Resp:	39783
Ion	Ratio	Lower	Upper
61	100		
96	64.8	55.0	82.6
98	39.9	34.3	51.5



#32
 1,1,1-Trichloroethane
 Concen: 1.983 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion:	97	Resp:	57837
Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.0	76.6
61	48.1	38.0	57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

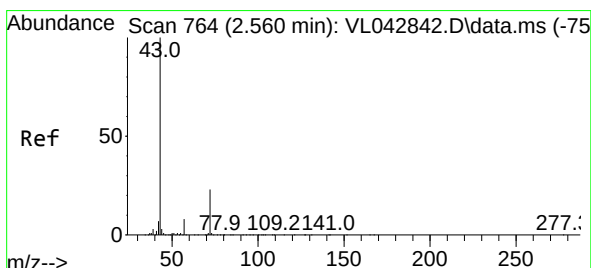
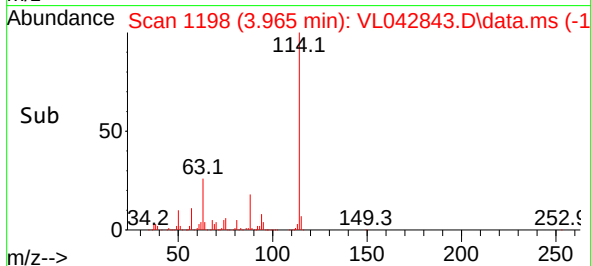
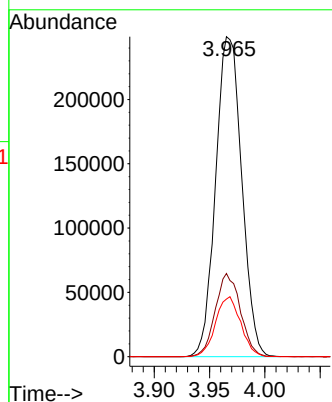
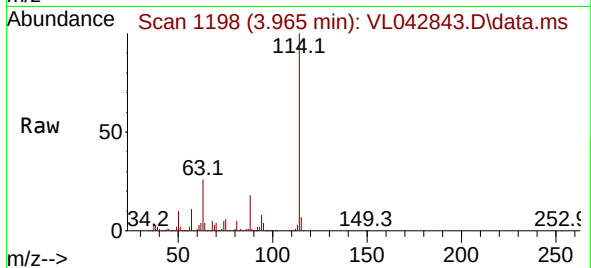
Tgt Ion:114 Resp: 408144

Ion Ratio Lower Upper

114 100

63 25.0 19.7 29.5

88 18.1 14.4 21.6



#34

2-Butanone

Concen: 2.075 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.003 min

Lab File: VL042843.D

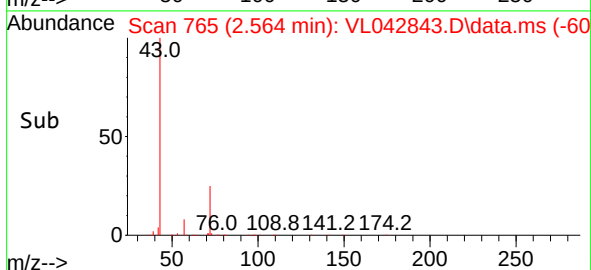
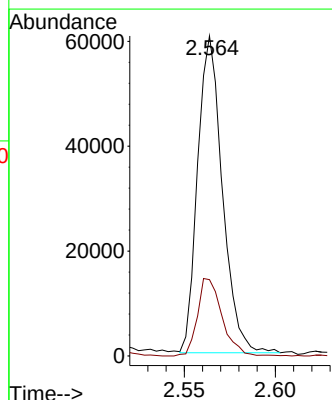
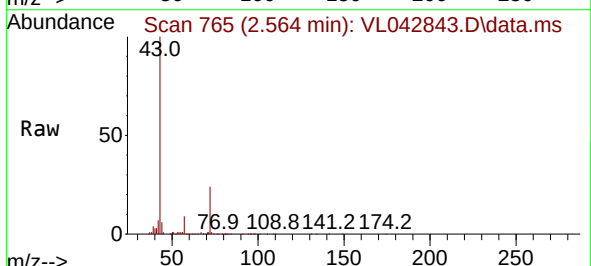
Acq: 13 Aug 2025 09:06

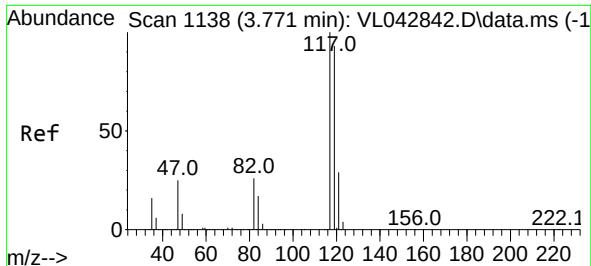
Tgt Ion: 43 Resp: 57172

Ion Ratio Lower Upper

43 100

72 24.3 18.6 28.0

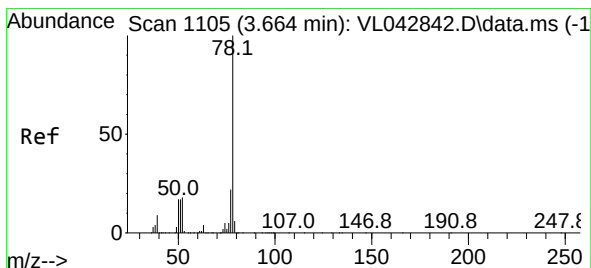
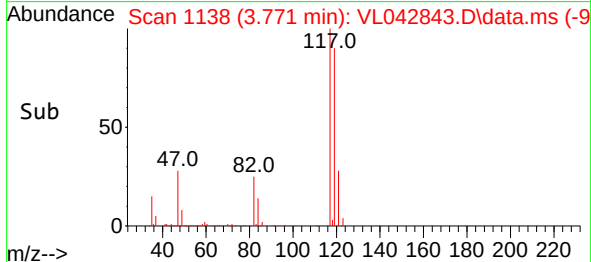
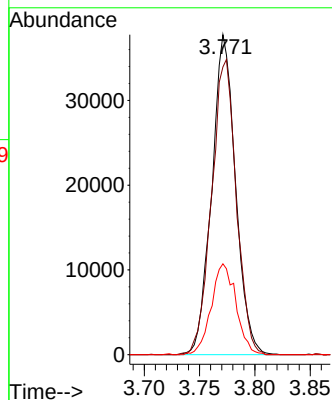
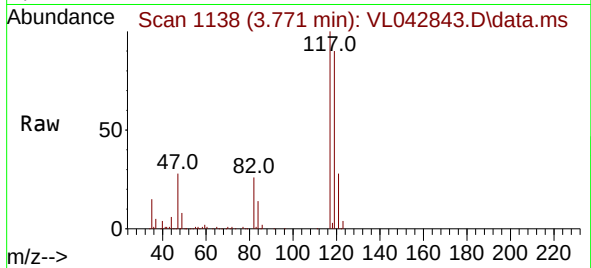




#35
Carbon Tetrachloride
Concen: 2.007 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

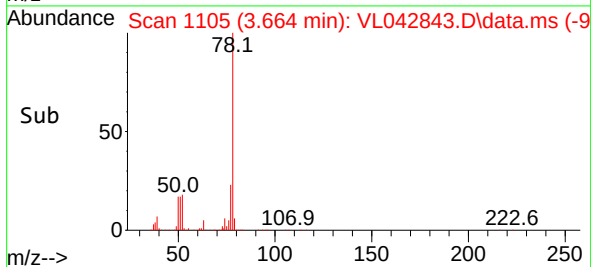
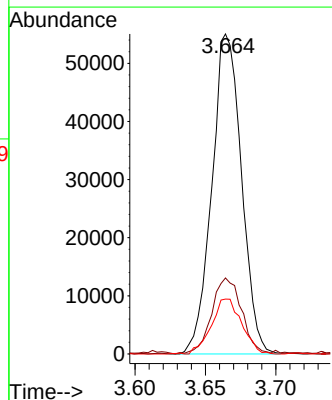
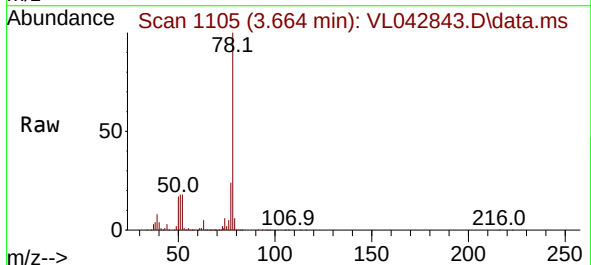
Instrument : MSVOA_L
ClientSampleId : VSTDIC002

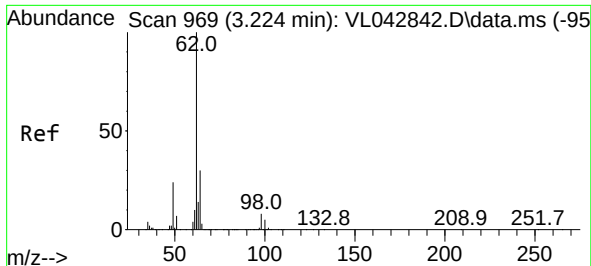
Tgt Ion:117 Resp: 56459
Ion Ratio Lower Upper
117 100
119 89.9 74.7 112.1
121 28.4 23.2 34.8



#36
Benzene
Concen: 2.067 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 78 Resp: 80781
Ion Ratio Lower Upper
78 100
77 23.5 17.7 26.5
50 17.2 13.9 20.9

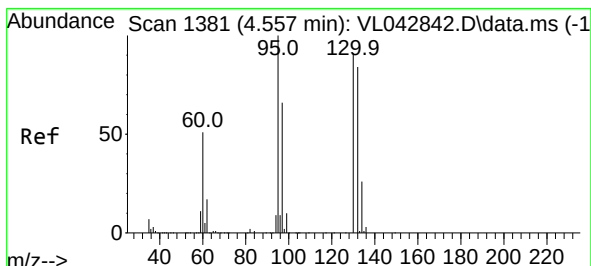
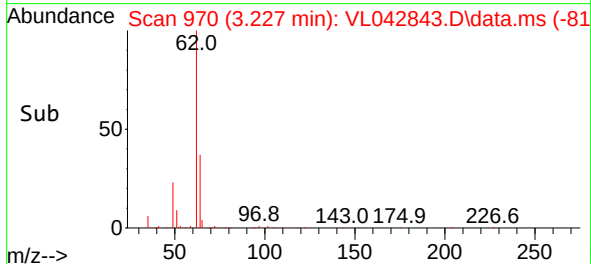
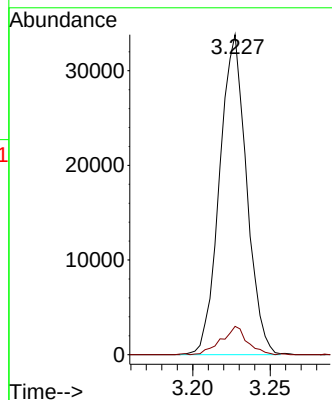
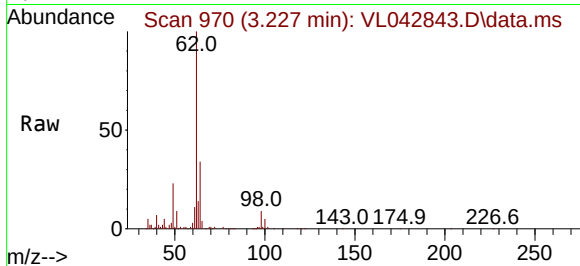




#37
1,2-Dichloroethane
Concen: 2.010 ppbv
RT: 3.227 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

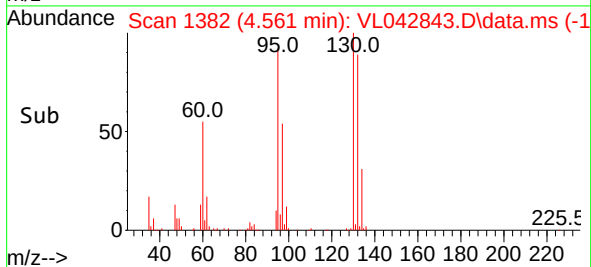
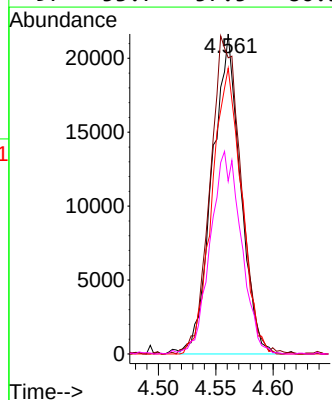
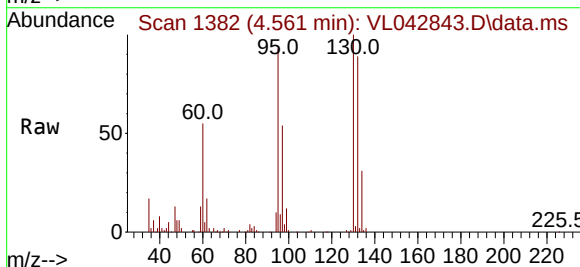
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

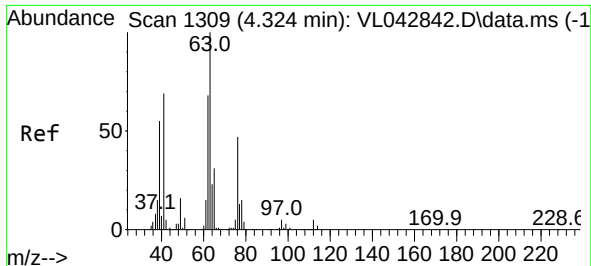
Tgt Ion: 62 Resp: 41034
Ion Ratio Lower Upper
62 100
98 8.6 5.9 8.9



#38
Trichloroethene
Concen: 2.072 ppbv
RT: 4.561 min Scan# 1382
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:130 Resp: 36990
Ion Ratio Lower Upper
130 100
95 91.5 87.6 131.4
132 89.3 73.8 110.8
97 53.7 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 2.036 ppbv

RT: 4.328 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

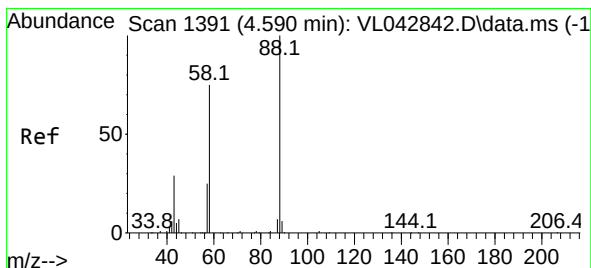
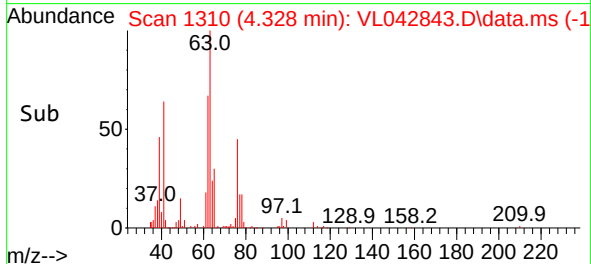
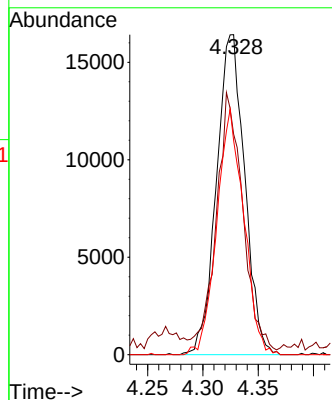
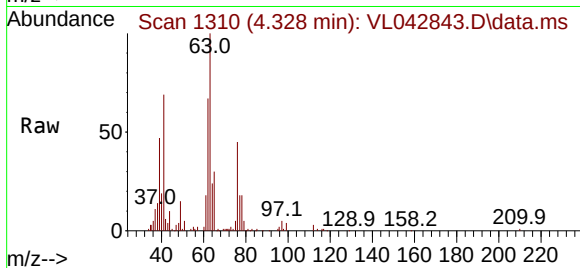
Tgt Ion: 63 Resp: 29059

Ion Ratio Lower Upper

63 100

41 66.8 55.0 82.4

62 66.9 54.4 81.6



#40

1,4-Dioxane

Concen: 1.788 ppbv

RT: 4.606 min Scan# 1396

Delta R.T. 0.016 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Tgt Ion: 88 Resp: 11947

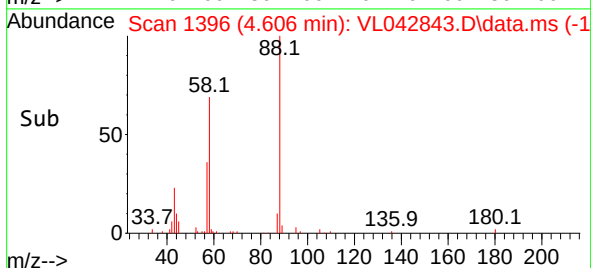
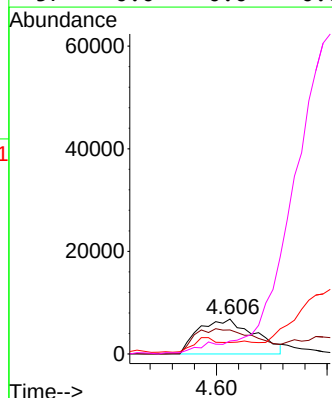
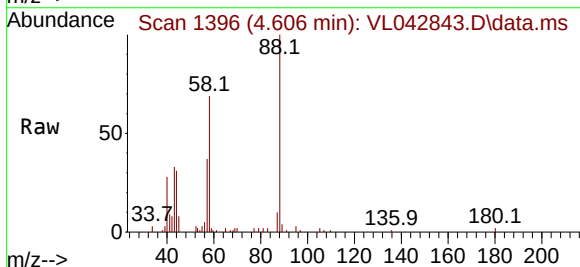
Ion Ratio Lower Upper

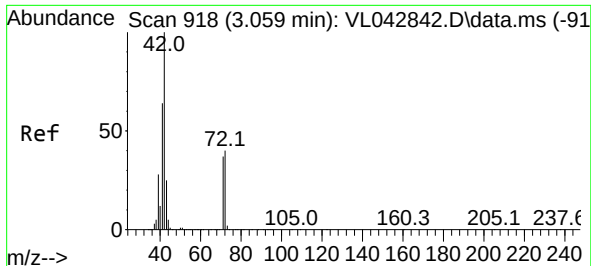
88 100

58 78.4 53.8 80.6

43 0.0 22.8 34.2#

57 0.0 0.0 0.0

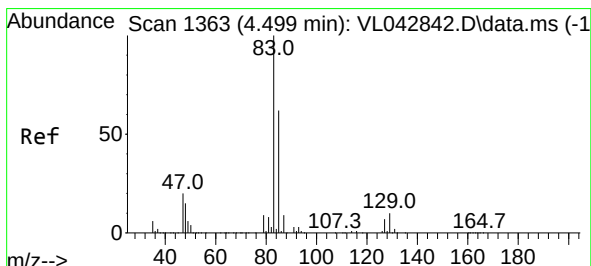
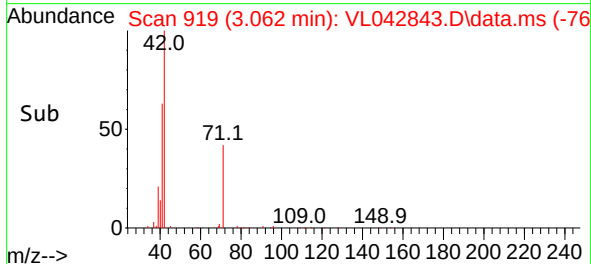
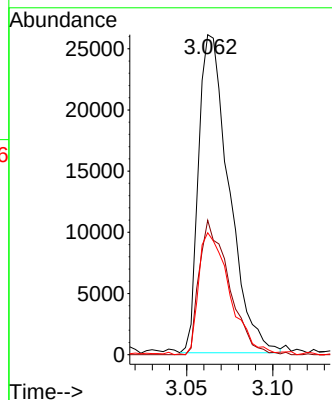
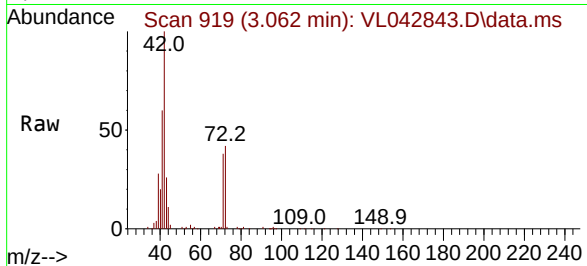




#41
Tetrahydrofuran
Concen: 2.082 ppbv
RT: 3.062 min Scan# 918
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

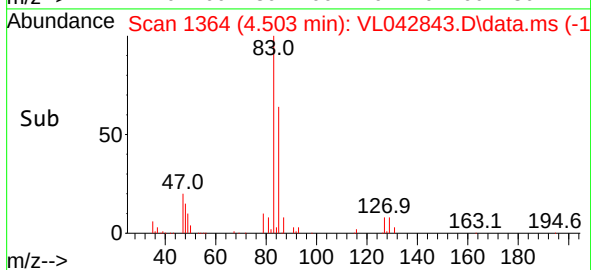
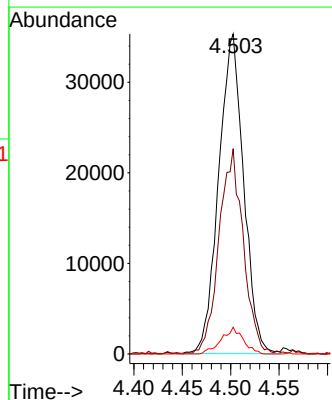
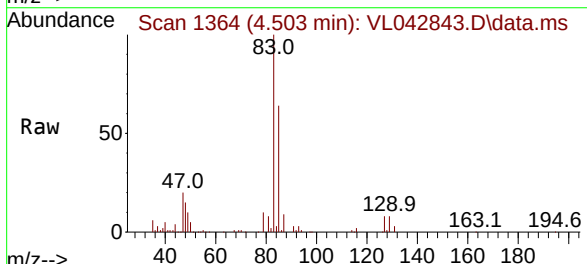
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

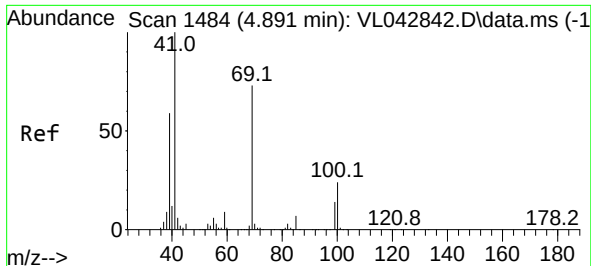
Tgt Ion:	42	Resp:	31994
Ion	Ratio	Lower	Upper
42	100		
72	41.3	32.6	48.8
71	40.1	30.0	45.0



#42
Bromodichloromethane
Concen: 2.085 ppbv
RT: 4.503 min Scan# 1364
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:	83	Resp:	63436
Ion	Ratio	Lower	Upper
83	100		
85	64.2	49.8	74.8
127	8.4	5.8	8.6

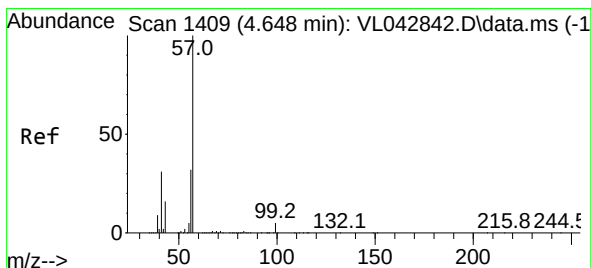
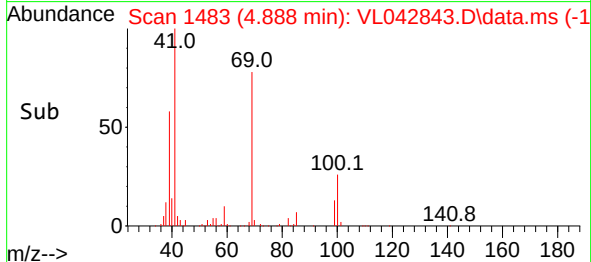
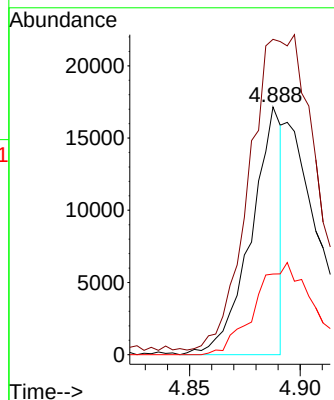
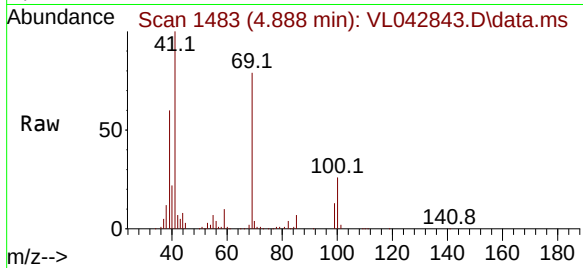




#43
Methyl Methacrylate
Concen: 1.030 ppbv
RT: 4.888 min Scan# 1411
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

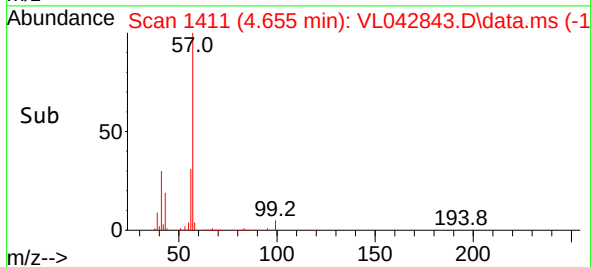
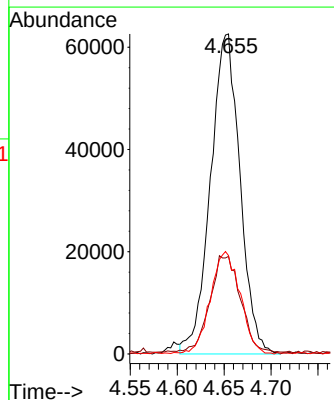
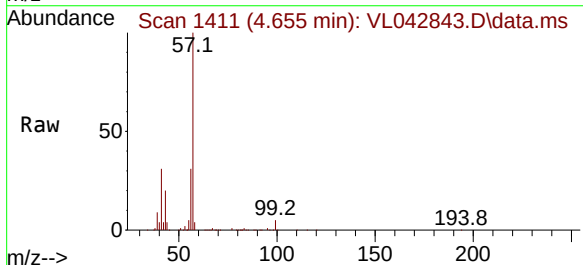
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

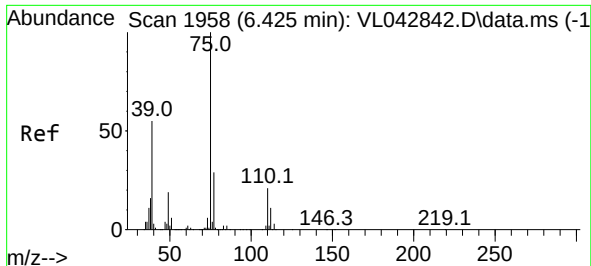
Tgt Ion: 69 Resp: 16511
Ion Ratio Lower Upper
69 100
41 0.0 114.6 172.0#
100 0.0 30.2 45.4#



#44
2,2,4-Trimethylpentane
Concen: 2.085 ppbv
RT: 4.655 min Scan# 1411
Delta R.T. 0.007 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 57 Resp: 136794
Ion Ratio Lower Upper
57 100
41 32.5 24.8 37.2
56 32.6 25.5 38.3





#45

t-1,3-Dichloropropene

Concen: 2.048 ppbv

RT: 6.428 min Scan# 1958

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_1

ClientSampleId :

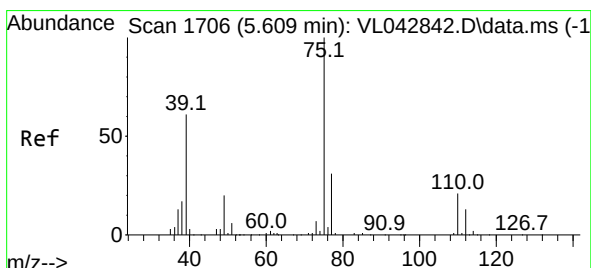
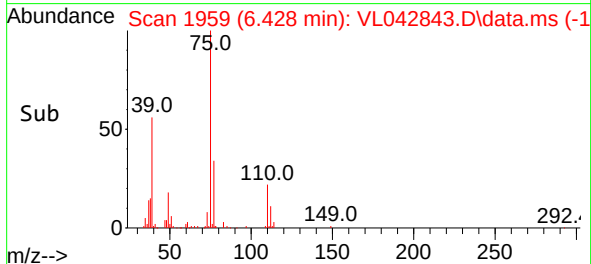
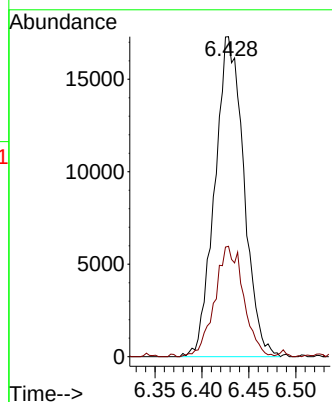
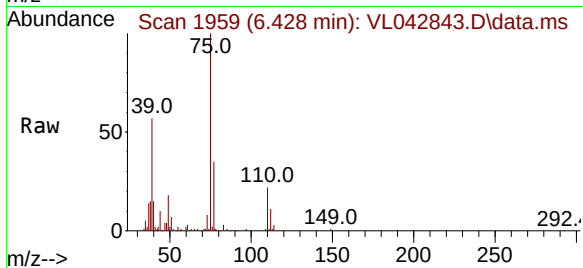
VSTDIC002

Tgt Ion: 75 Resp: 37248

Ion Ratio Lower Upper

75 100

77 35.2 23.8 35.6



#46

cis-1,3-Dichloropropene

Concen: 1.180 ppbv

RT: 5.609 min Scan# 1706

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

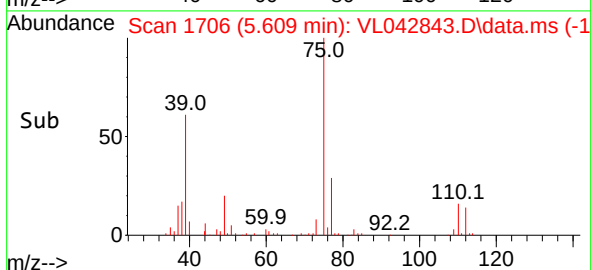
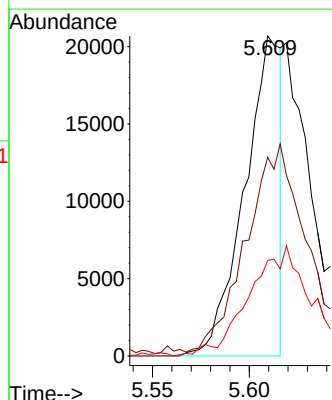
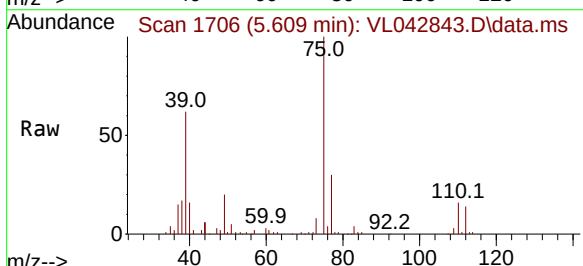
Tgt Ion: 75 Resp: 26940

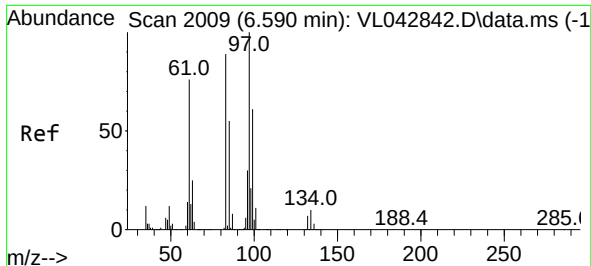
Ion Ratio Lower Upper

75 100

39 60.0 48.9 73.3

77 29.4 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 1.466 ppbv

RT: 6.593 min Scan# 2009

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 97 Resp: 22158

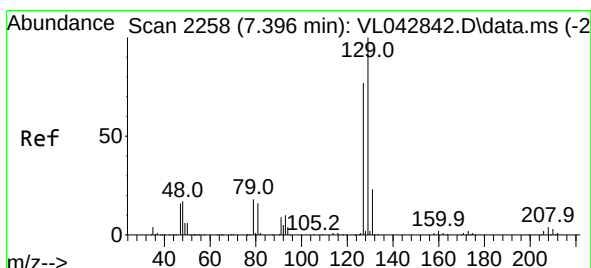
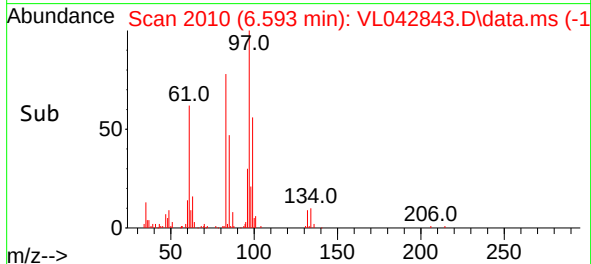
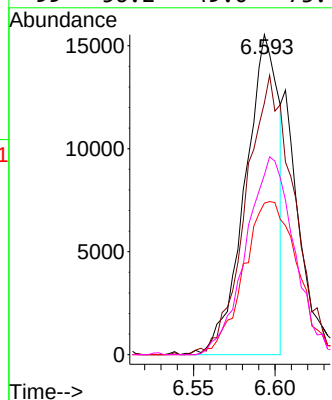
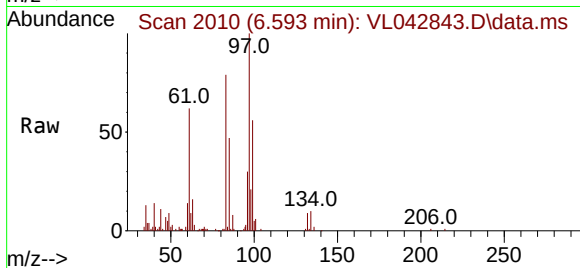
Ion Ratio Lower Upper

97 100

83 78.7 71.0 106.4

85 47.3 43.6 65.4

99 56.2 49.0 73.4



#48

Dibromochloromethane

Concen: 2.109 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.003 min

Lab File: VL042843.D

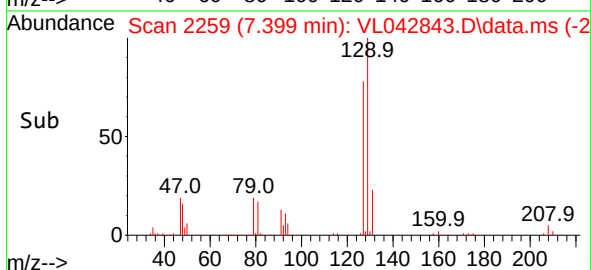
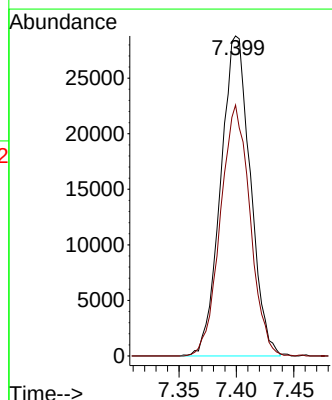
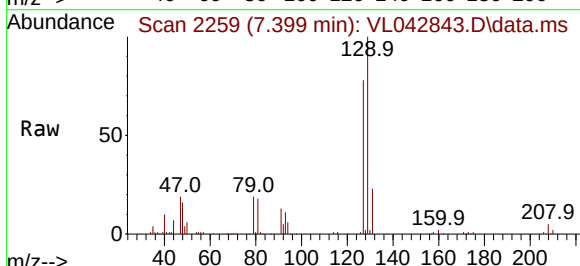
Acq: 13 Aug 2025 09:06

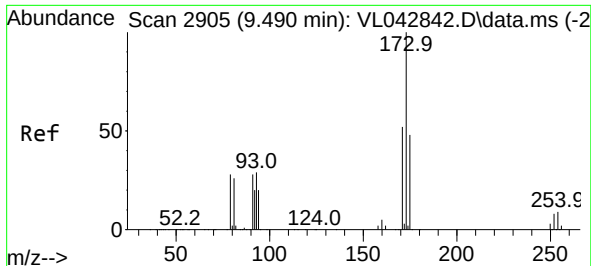
Tgt Ion: 129 Resp: 51620

Ion Ratio Lower Upper

129 100

127 78.4 39.4 118.2

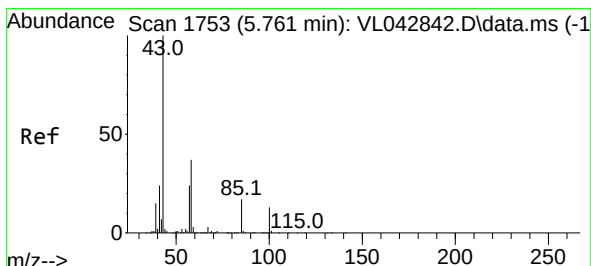
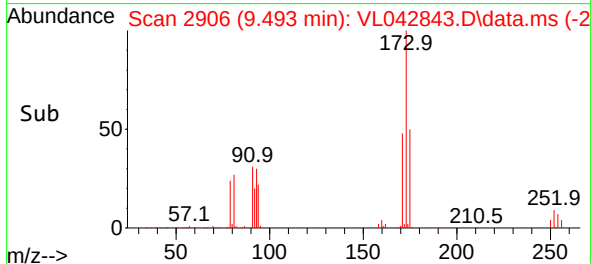
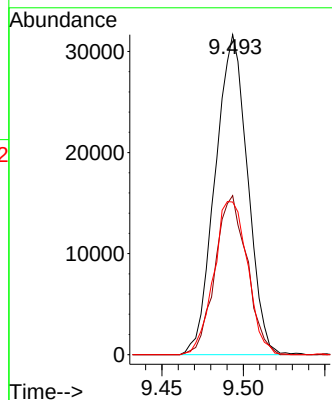
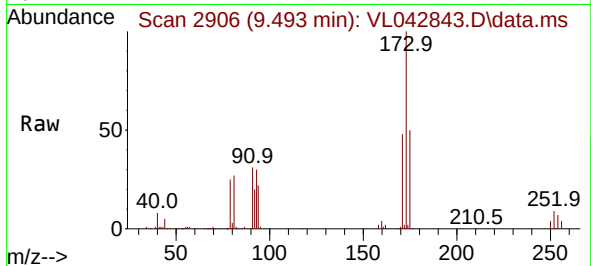




#49
Bromoform
Concen: 2.163 ppbv
RT: 9.493 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

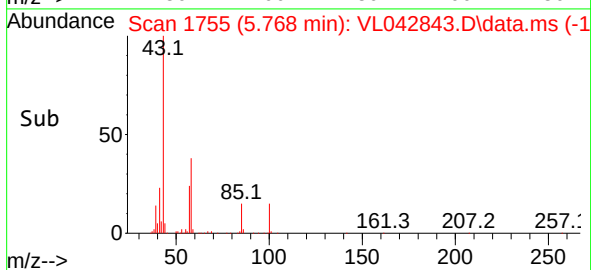
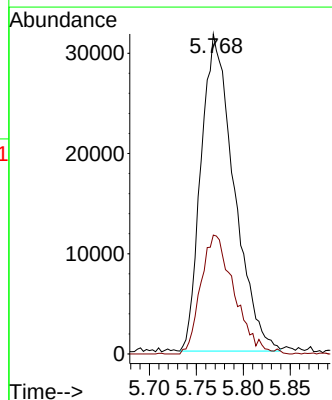
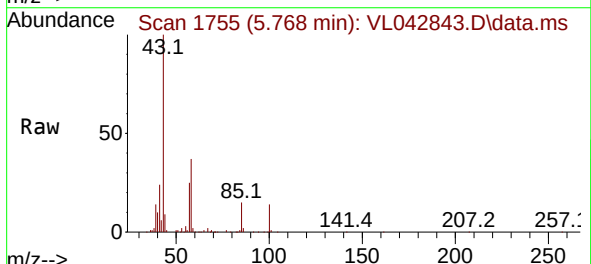
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

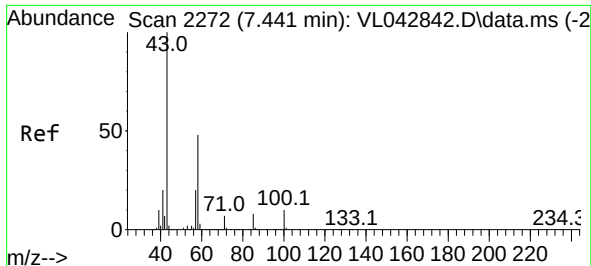
Tgt Ion:173 Resp: 43662
Ion Ratio Lower Upper
173 100
175 49.1 39.2 58.8
171 50.0 41.3 61.9



#50
4-Methyl-2-Pentanone
Concen: 2.066 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.007 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 43 Resp: 77225
Ion Ratio Lower Upper
43 100
58 38.1 29.8 44.8

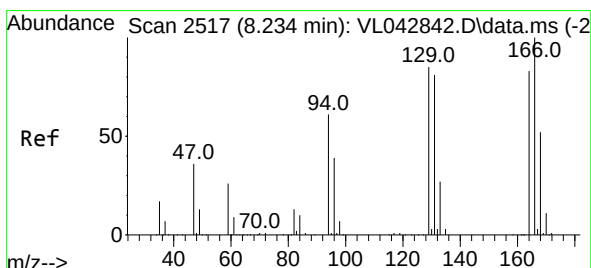
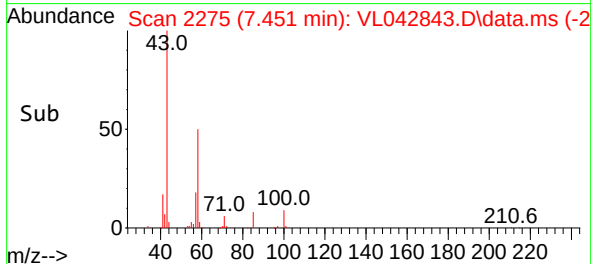
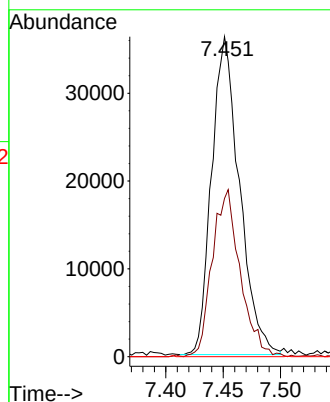
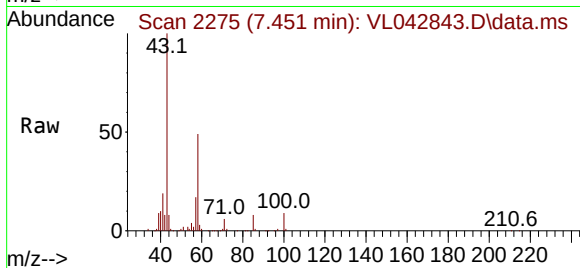




#51
2-Hexanone
Concen: 2.088 ppbv
RT: 7.451 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

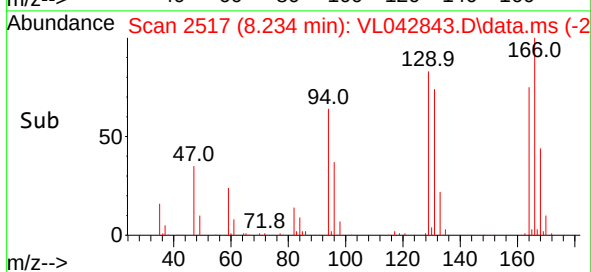
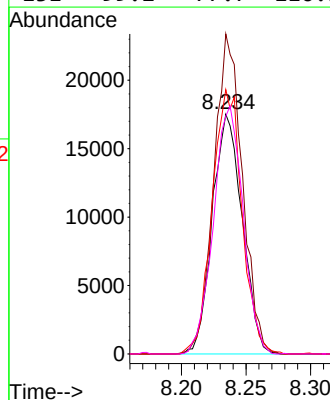
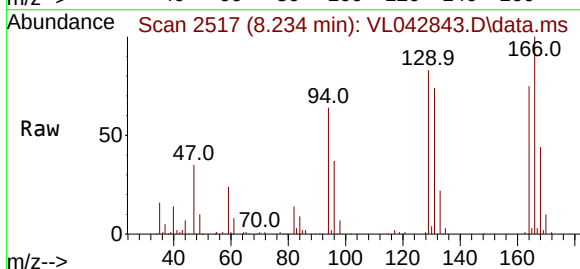
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

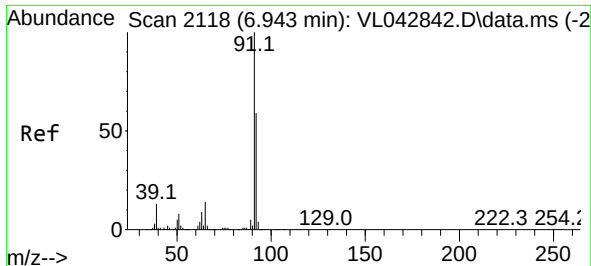
Tgt Ion: 43 Resp: 61210
Ion Ratio Lower Upper
43 100
58 52.9 41.0 61.6
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 1.990 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 164 Resp: 28166
Ion Ratio Lower Upper
164 100
166 133.5 96.5 144.7
129 110.3 81.8 122.6
131 99.2 77.7 116.5





#53

Toluene

Concen: 2.036 ppbv

RT: 6.946 min Scan# 2118

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

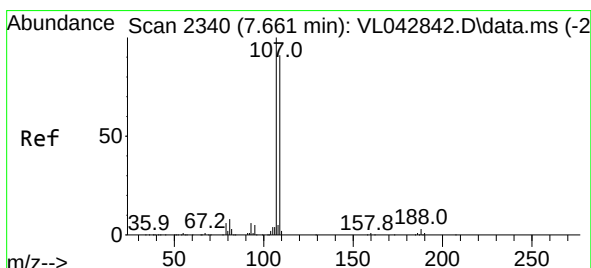
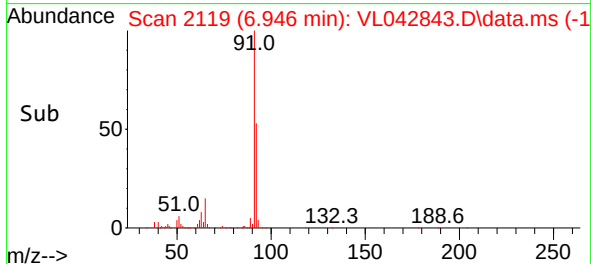
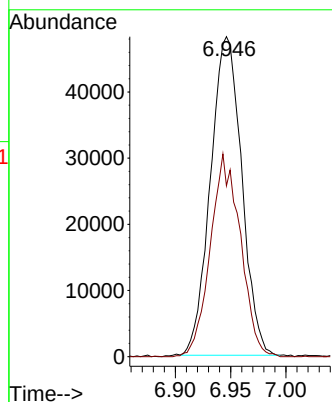
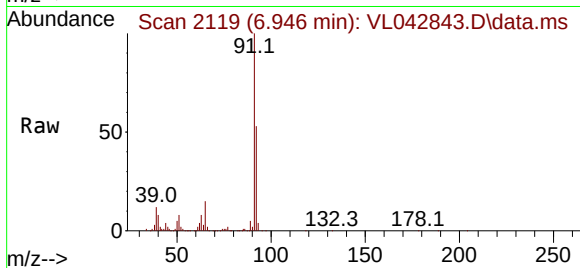
VSTDICC002

Tgt Ion: 91 Resp: 94690

Ion Ratio Lower Upper

91 100

92 61.1 47.8 71.6



#54

1,2-Dibromoethane

Concen: 2.039 ppbv

RT: 7.665 min Scan# 2341

Delta R.T. 0.003 min

Lab File: VL042843.D

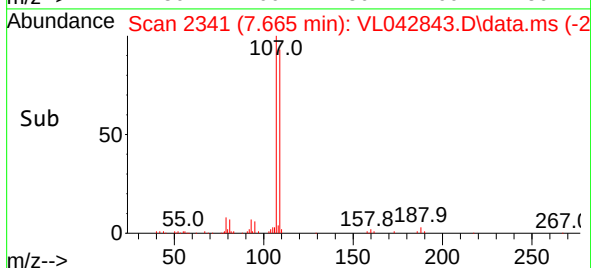
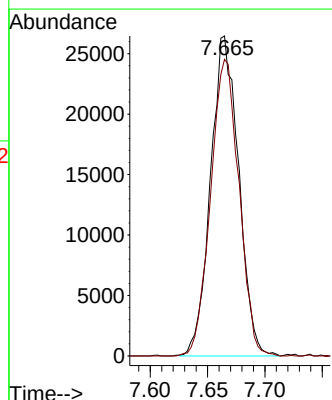
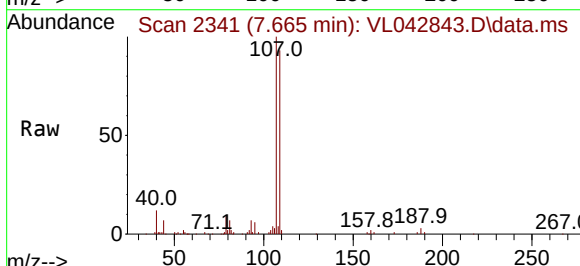
Acq: 13 Aug 2025 09:06

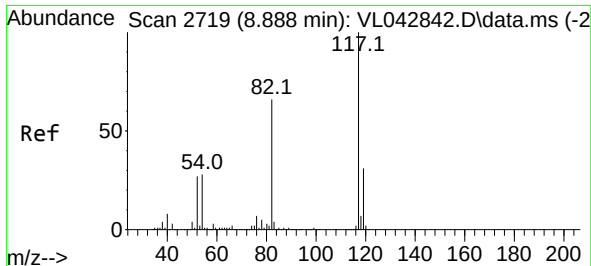
Tgt Ion: 107 Resp: 45071

Ion Ratio Lower Upper

107 100

109 92.7 72.5 108.7

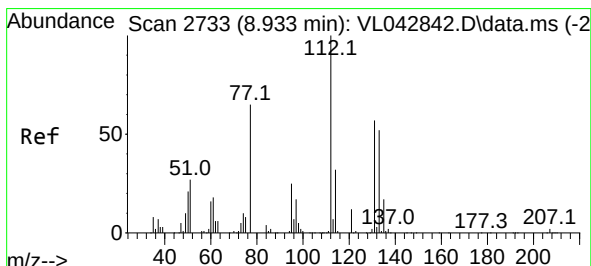
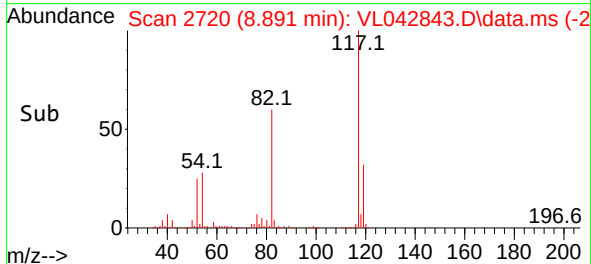
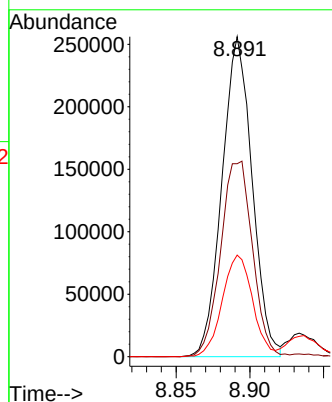
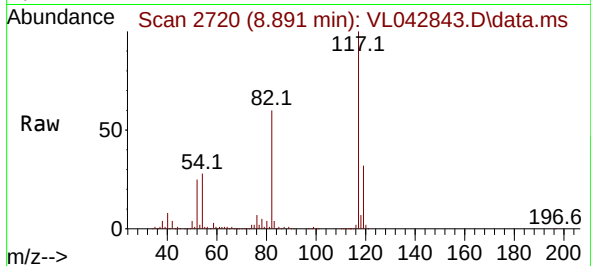




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

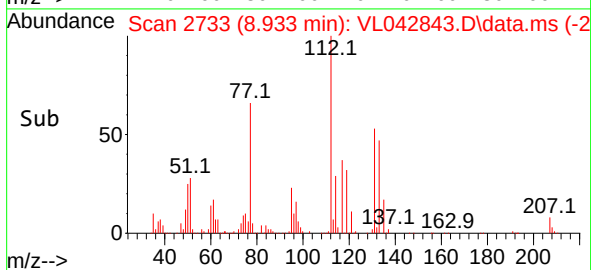
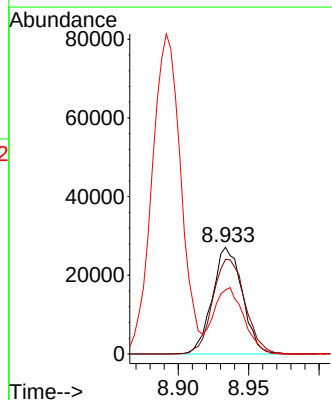
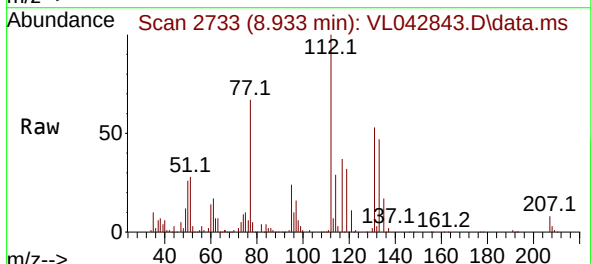
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

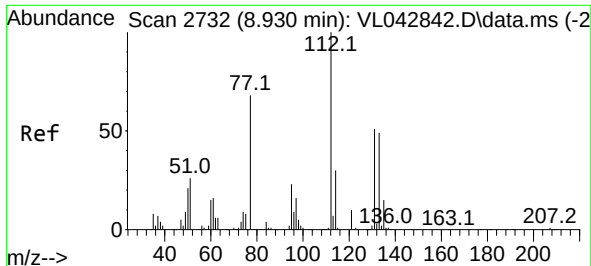
Tgt Ion:117 Resp: 363830
Ion Ratio Lower Upper
117 100
82 65.4 54.6 81.8
119 32.8 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 2.131 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:131 Resp: 40090
Ion Ratio Lower Upper
131 100
133 96.1 77.4 116.0
119 59.3 51.2 76.8





#57

Chlorobenzene

Concen: 2.090 ppbv

RT: 8.933 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

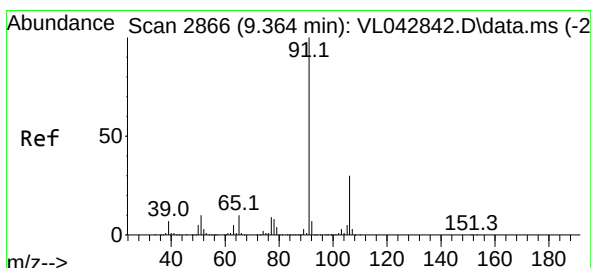
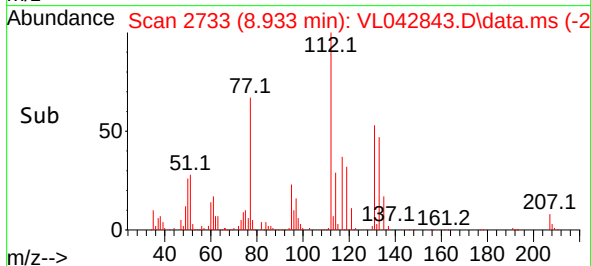
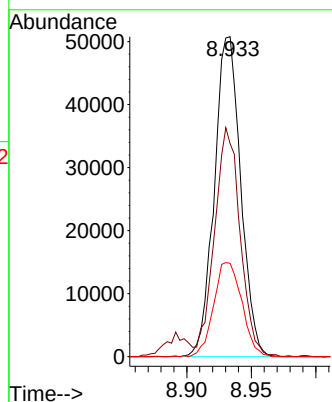
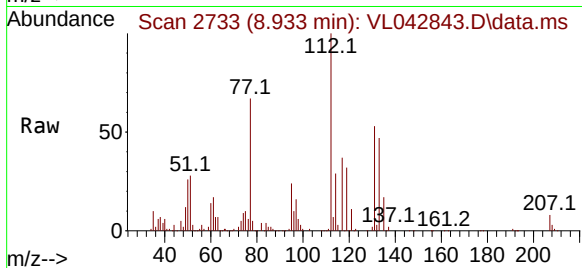
Tgt Ion:112 Resp: 72296

Ion Ratio Lower Upper

112 100

77 66.4 55.5 83.3

114 29.2 27.2 33.2



#58

Ethyl Benzene

Concen: 2.083 ppbv

RT: 9.364 min Scan# 2866

Delta R.T. 0.000 min

Lab File: VL042843.D

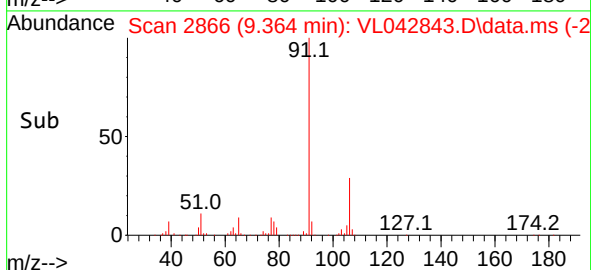
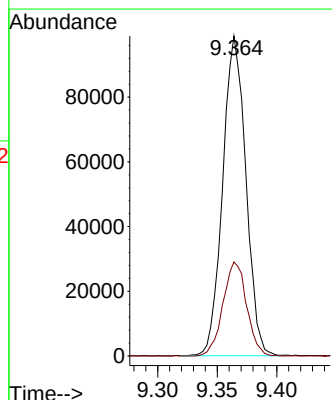
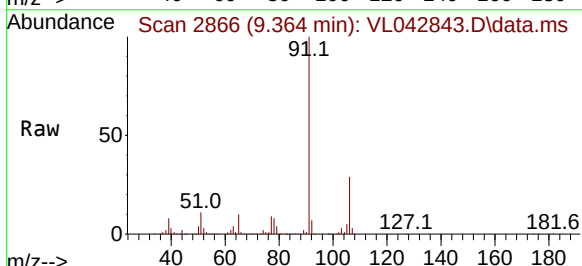
Acq: 13 Aug 2025 09:06

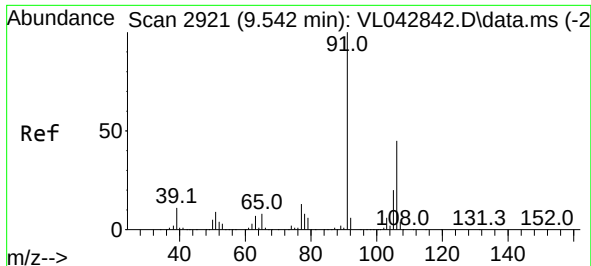
Tgt Ion: 91 Resp: 133719

Ion Ratio Lower Upper

91 100

106 29.4 23.9 35.9





#59

m/p-Xylene

Concen: 1.998 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

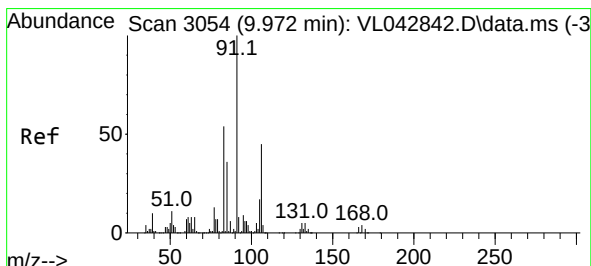
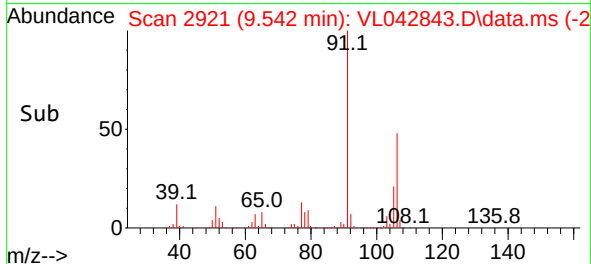
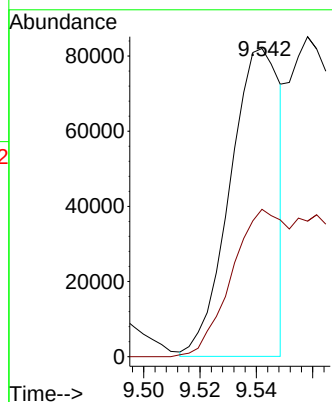
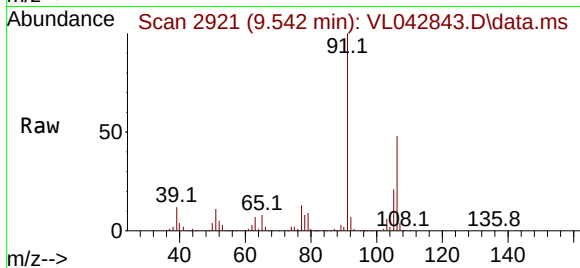
VSTDIC002

Tgt Ion: 91 Resp: 100699

Ion Ratio Lower Upper

91 100

106 97.0 0.0 0.0#



#60

o-Xylene

Concen: 2.077 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VL042843.D

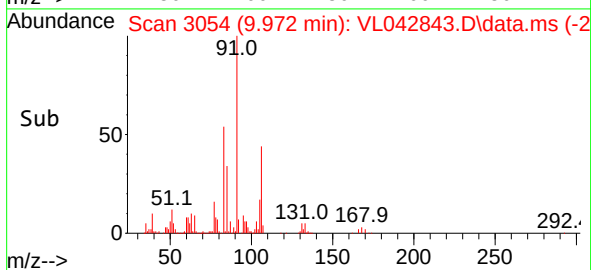
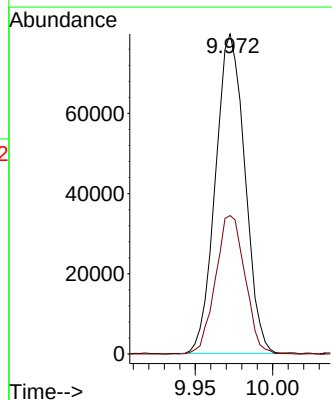
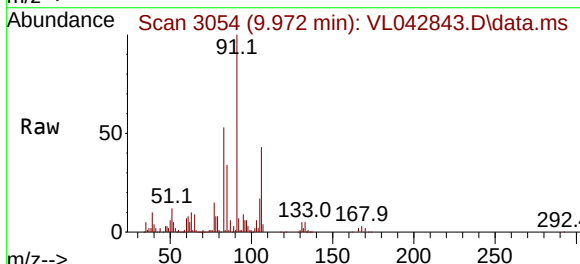
Acq: 13 Aug 2025 09:06

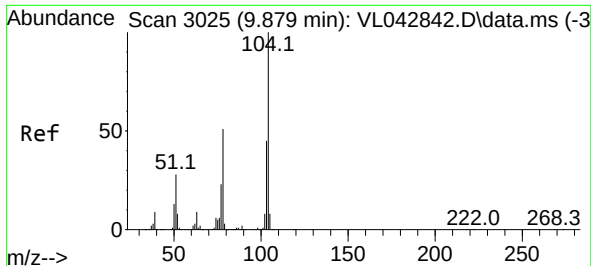
Tgt Ion: 91 Resp: 105125

Ion Ratio Lower Upper

91 100

106 43.5 21.8 65.4

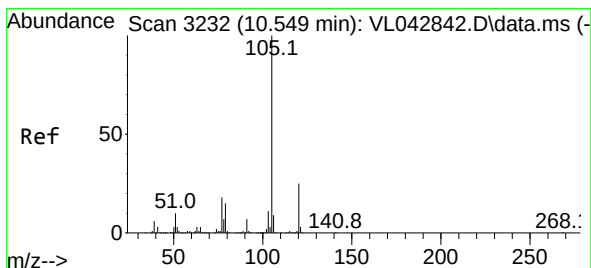
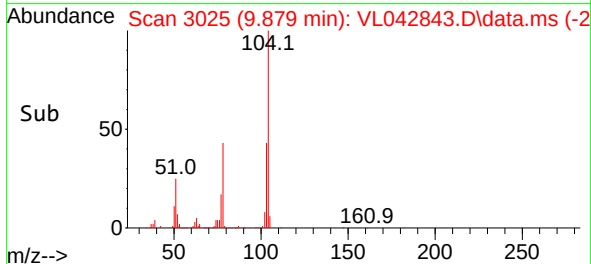
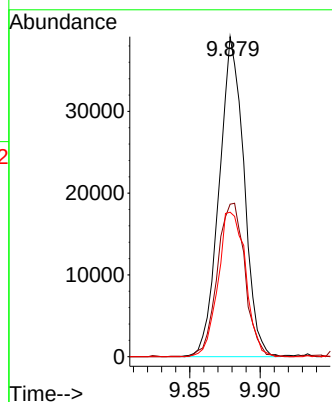
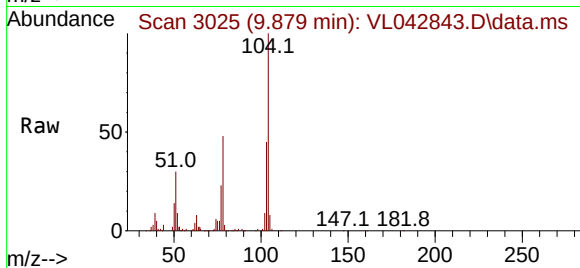




#61
Styrene
Concen: 2.025 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

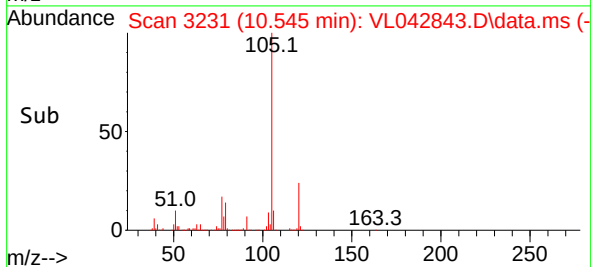
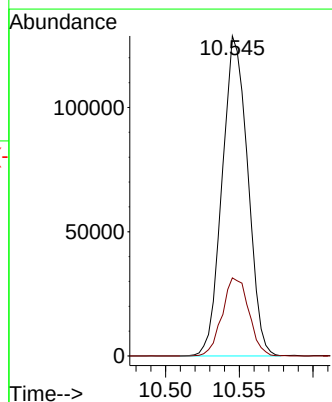
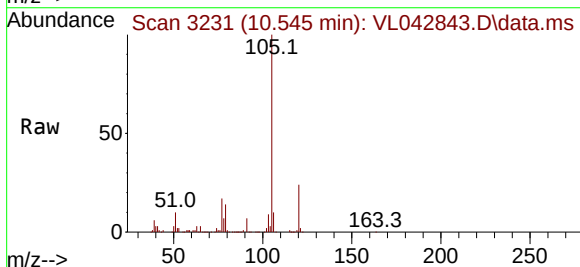
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

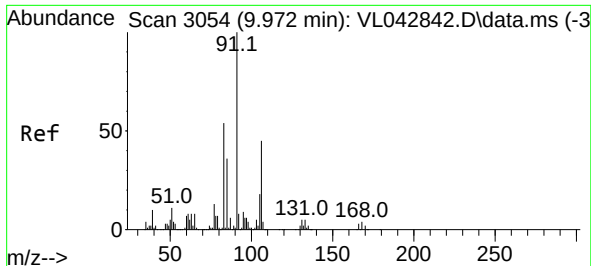
Tgt Ion:104 Resp: 48027
Ion Ratio Lower Upper
104 100
78 53.4 40.6 61.0
103 50.1 37.7 56.5



#62
Isopropylbenzene
Concen: 2.098 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:105 Resp: 155223
Ion Ratio Lower Upper
105 100
120 25.5 20.6 30.8

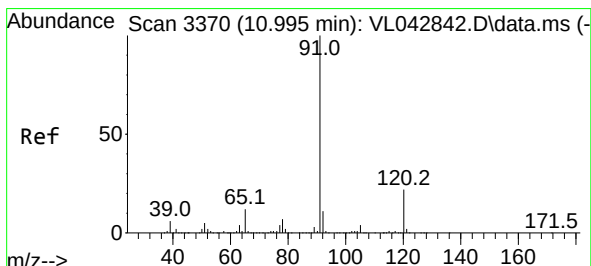
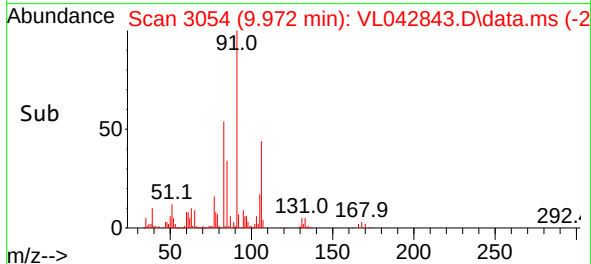
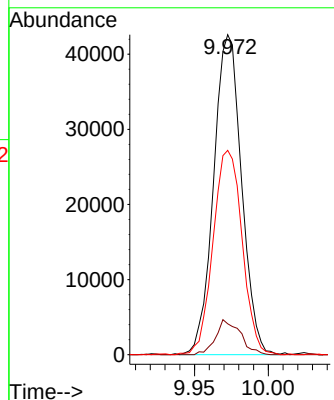
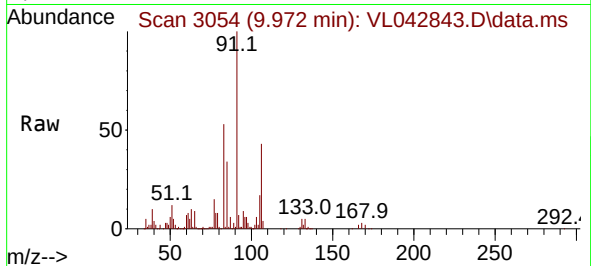




#63
 1,1,2,2-Tetrachloroethane
 Concen: 2.031 ppbv
 RT: 9.972 min Scan# 3054
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

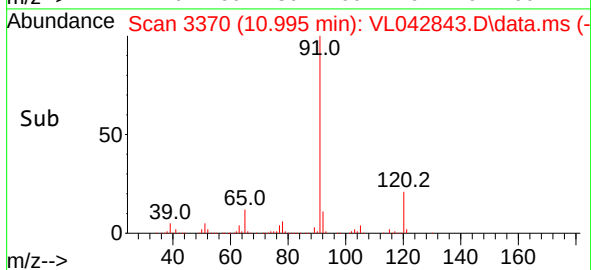
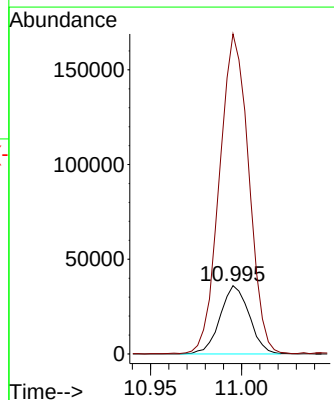
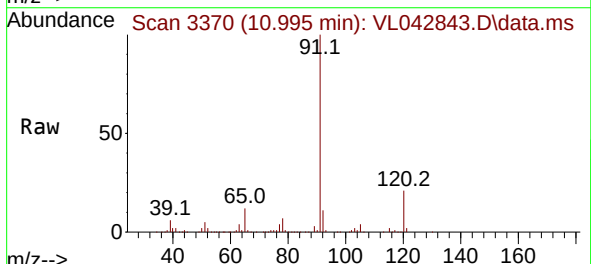
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

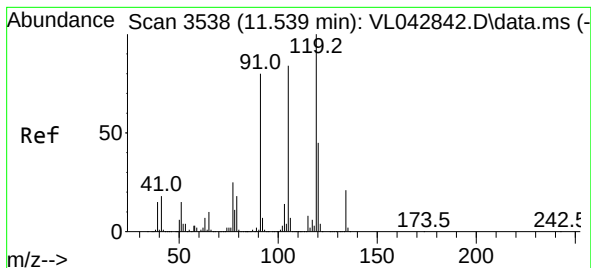
Tgt Ion: 83 Resp: 56139
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.8 14.3
 85 66.5 32.3 96.8



#64
 n-propylbenzene
 Concen: 2.115 ppbv
 RT: 10.995 min Scan# 3370
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion: 120 Resp: 39922
 Ion Ratio Lower Upper
 120 100
 91 476.7 375.8 563.6

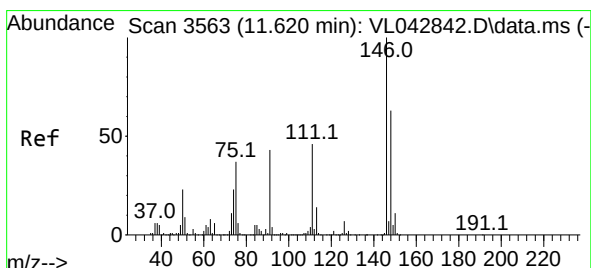
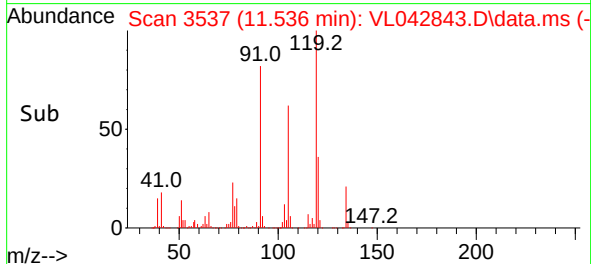
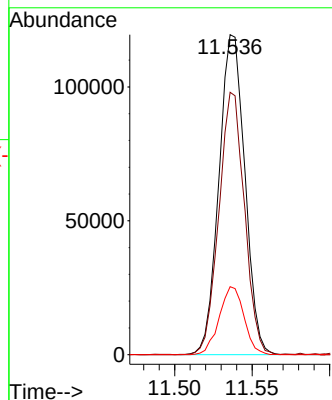
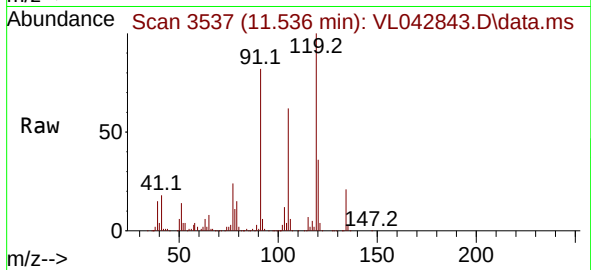




#65
tert-Butylbenzene
Concen: 2.132 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

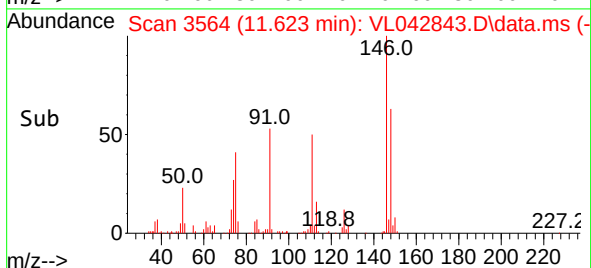
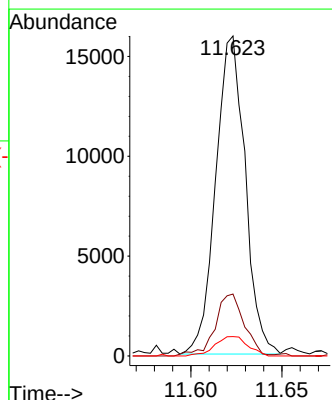
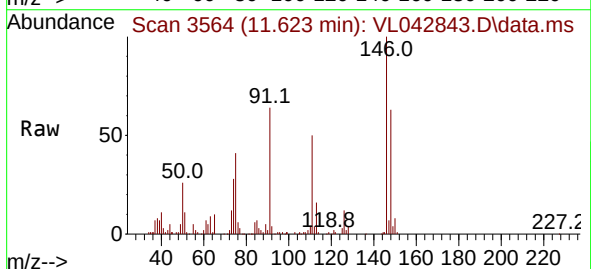
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

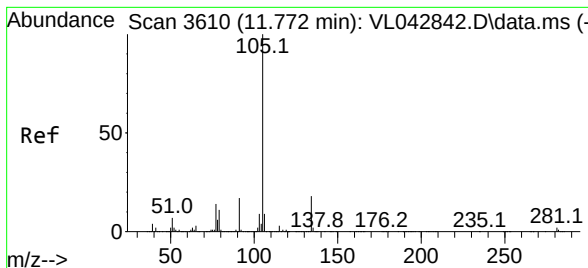
Tgt Ion:119 Resp: 139019
Ion Ratio Lower Upper
119 100
91 80.9 63.9 95.9
134 20.3 17.0 25.4



#66
Benzyl Chloride
Concen: 2.161 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 17893
Ion Ratio Lower Upper
91 100
126 19.5 14.2 21.4
128 6.9 5.0 7.6

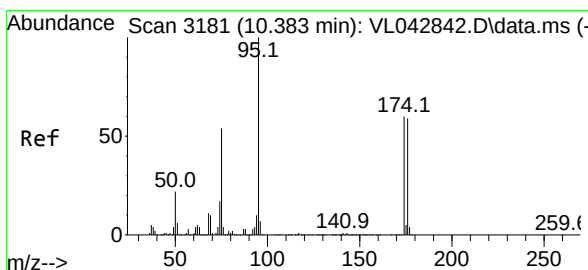
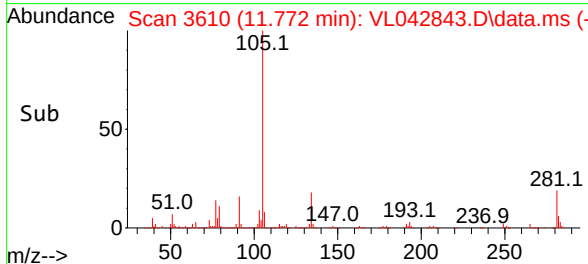
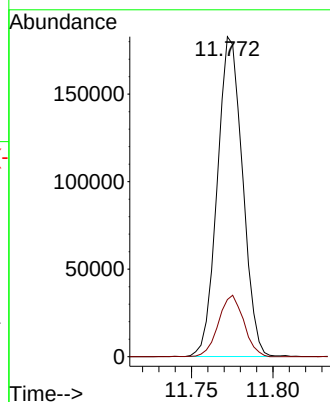
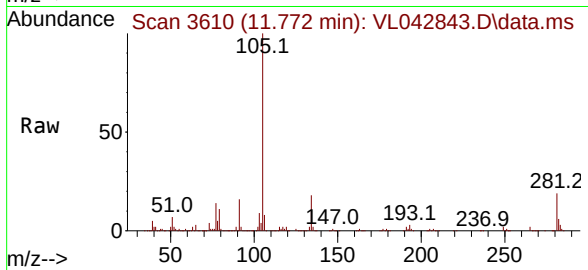




#67
 sec-Butylbenzene
 Concen: 2.151 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

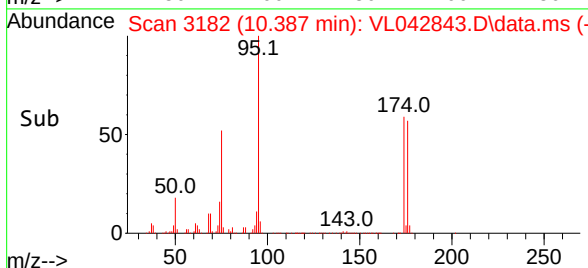
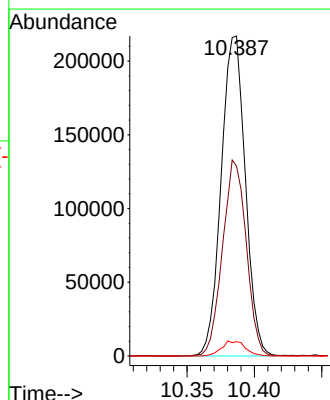
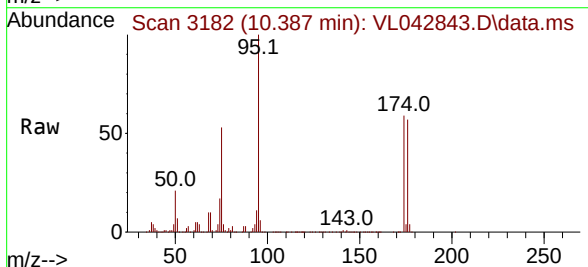
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

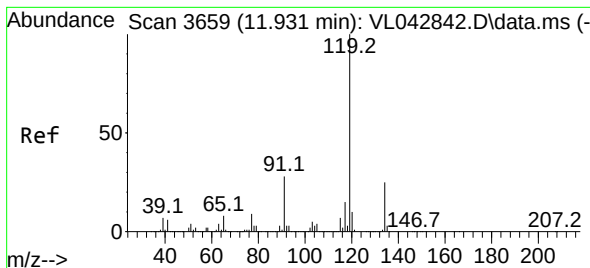
Tgt Ion:105 Resp: 196899
 Ion Ratio Lower Upper
 105 100
 134 19.3 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.923 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.003 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion: 95 Resp: 270774
 Ion Ratio Lower Upper
 95 100
 174 60.2 48.4 72.6
 175 4.6 3.8 5.8

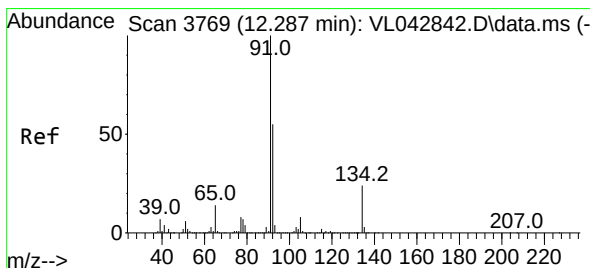
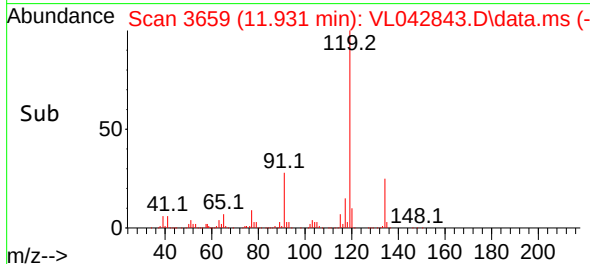
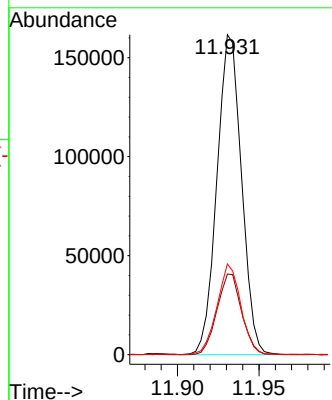
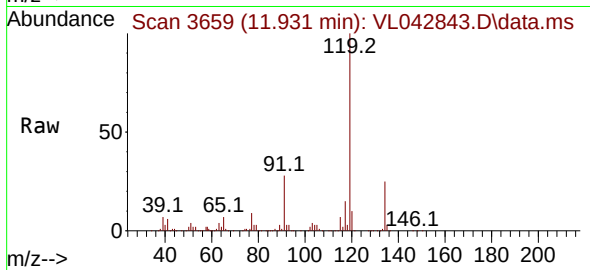




#69
p-Isopropyltoluene
Concen: 2.156 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

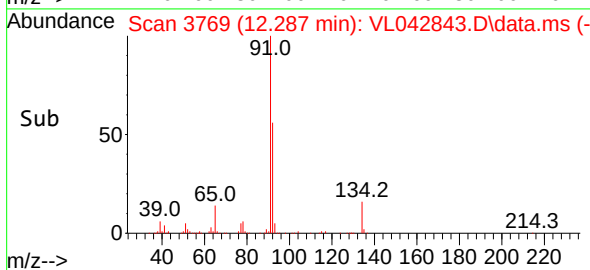
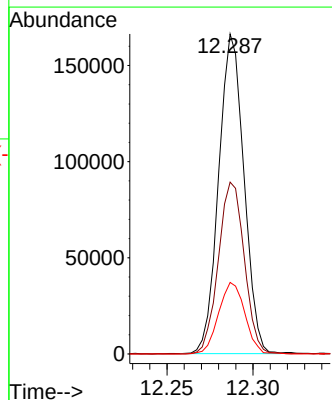
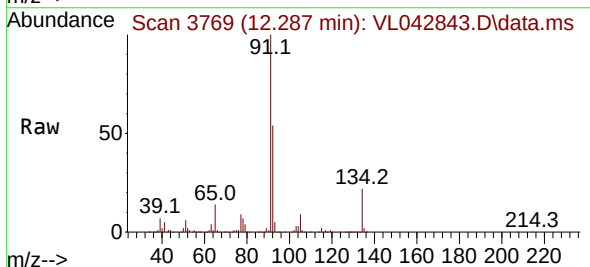
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

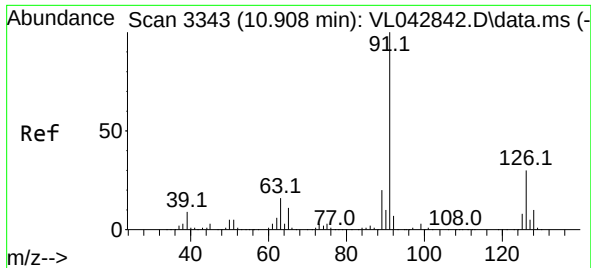
Tgt Ion:119 Resp: 169429
Ion Ratio Lower Upper
119 100
134 25.3 20.6 30.8
91 27.4 22.6 34.0



#70
n-Butylbenzene
Concen: 2.178 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 169768
Ion Ratio Lower Upper
91 100
92 55.4 44.6 66.8
134 23.3 19.0 28.4

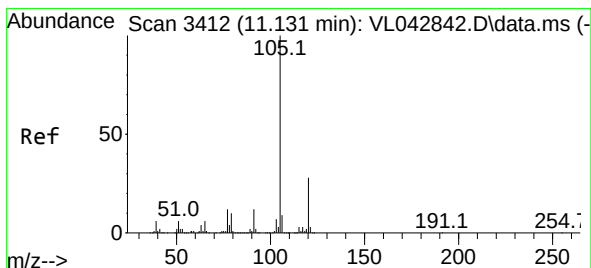
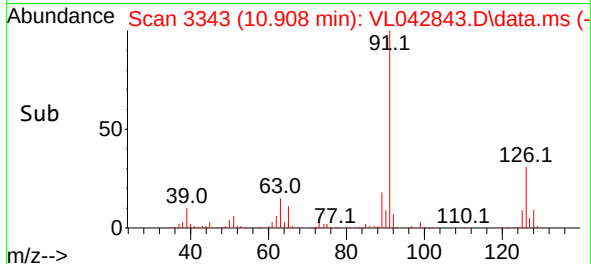
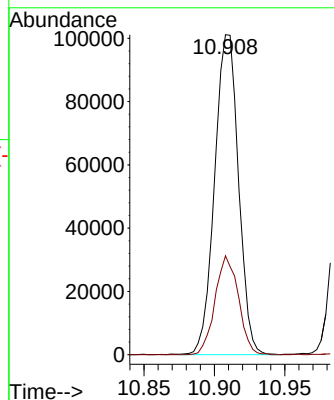
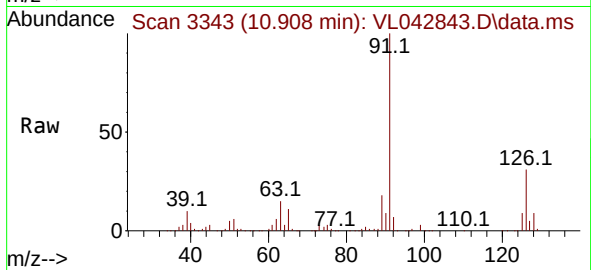




#71
2-Chlorotoluene
Concen: 2.078 ppbv
RT: 10.908 min Scan# 311
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

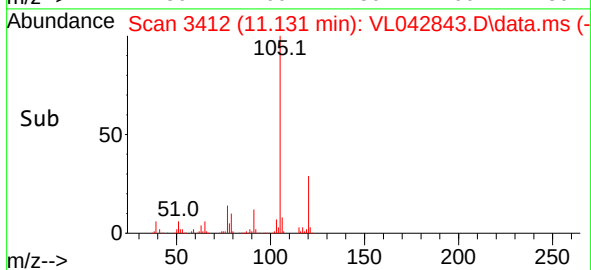
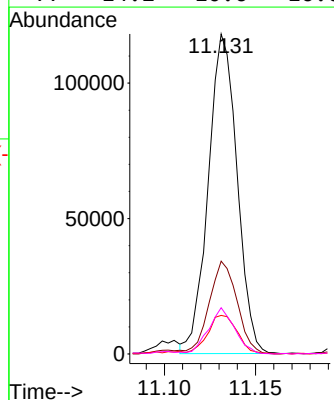
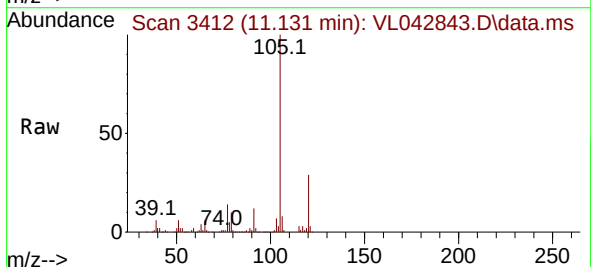
Instrument :
MSVOA_L
ClientSampleId :
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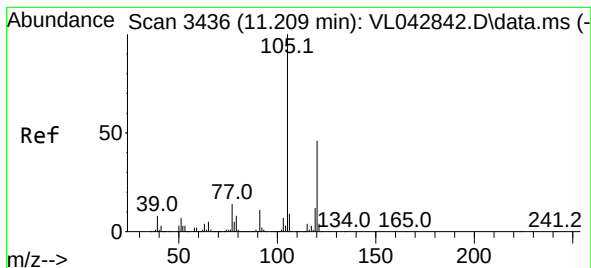
Tgt Ion: 91 Resp: 119382
Ion Ratio Lower Upper
91 100
126 30.2 12.0 47.8



#72
4-Ethyltoluene
Concen: 2.115 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 105 Resp: 129786
Ion Ratio Lower Upper
105 100
120 29.4 23.4 35.2
91 13.3 9.8 14.6
77 14.2 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 2.109 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_1

ClientSampleId :

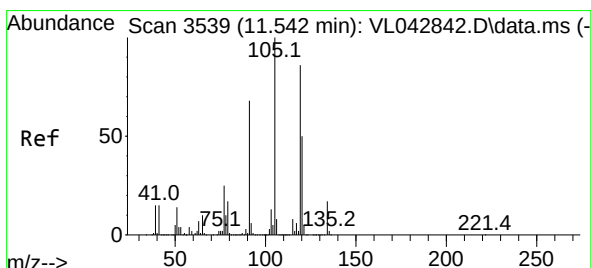
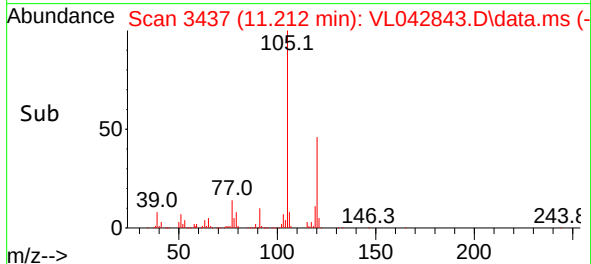
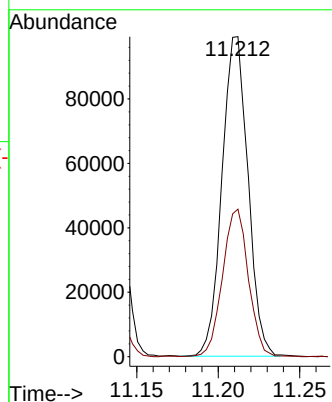
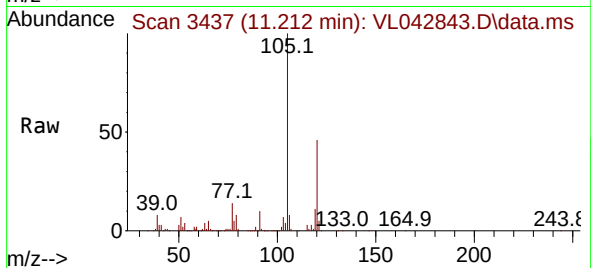
VSTDIC002

Tgt Ion:105 Resp: 110043

Ion Ratio Lower Upper

105 100

120 46.1 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 2.157 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Tgt Ion:105 Resp: 123554

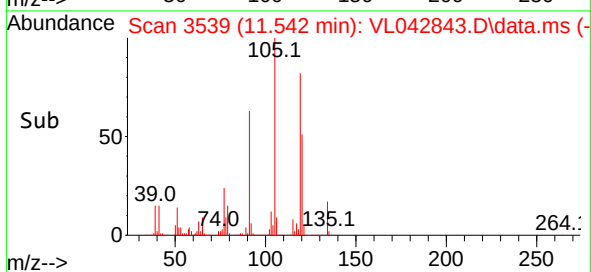
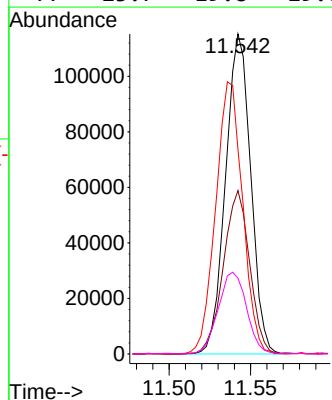
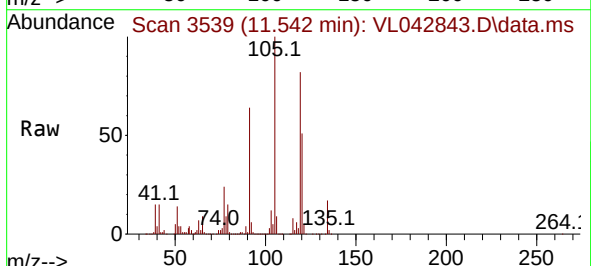
Ion Ratio Lower Upper

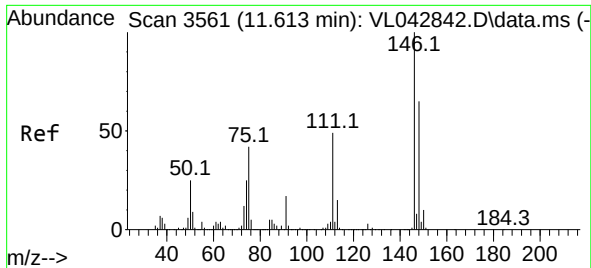
105 100

120 51.0 39.8 59.6

91 63.9 54.2 81.4

77 23.7 19.8 29.6

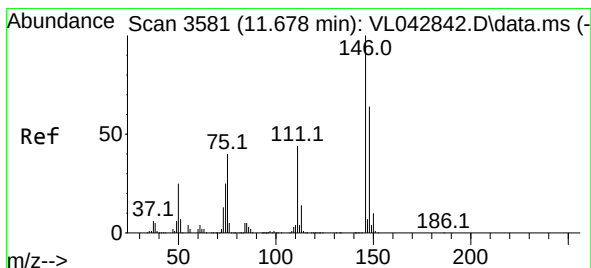
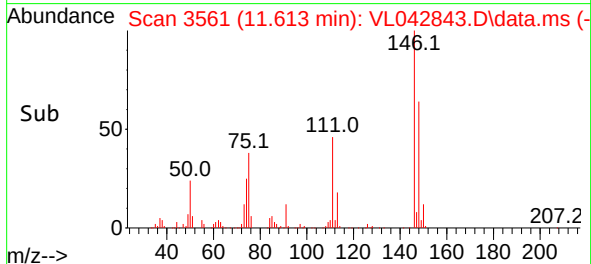
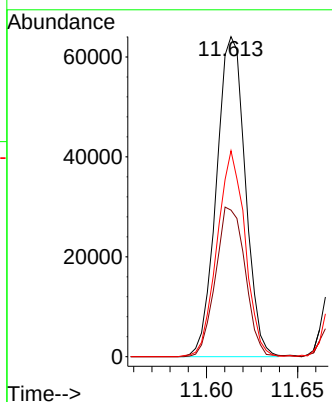
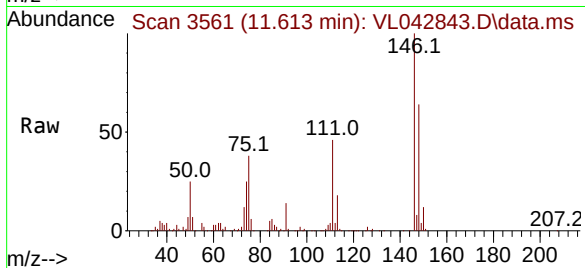




#75
1,3-Dichlorobenzene
Concen: 2.160 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

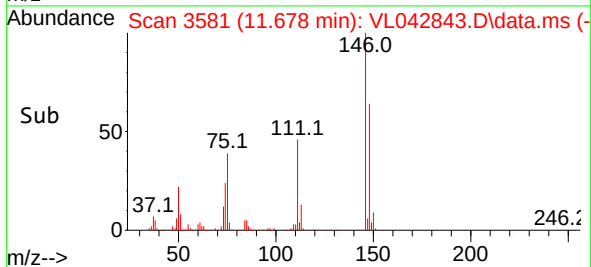
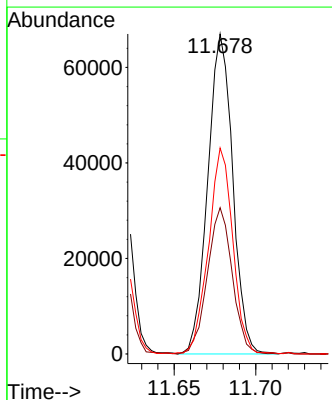
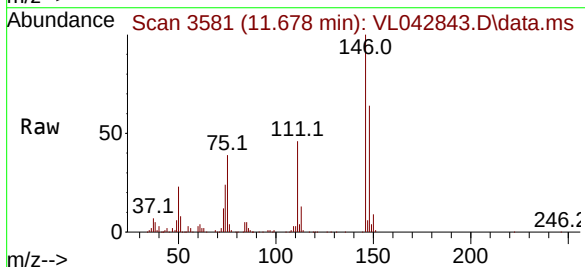
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

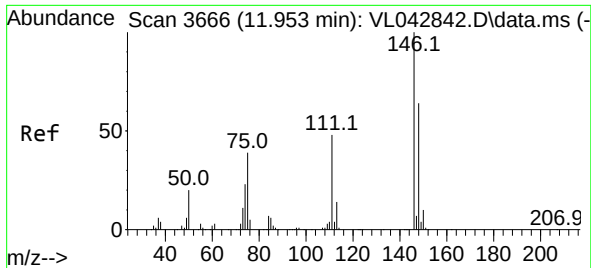
Tgt Ion:146 Resp: 70330
Ion Ratio Lower Upper
146 100
111 48.0 23.9 71.7
148 62.5 31.4 94.0



#76
1,4-Dichlorobenzene
Concen: 2.161 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:146 Resp: 71160
Ion Ratio Lower Upper
146 100
111 45.7 22.7 68.1
148 62.9 31.8 95.3

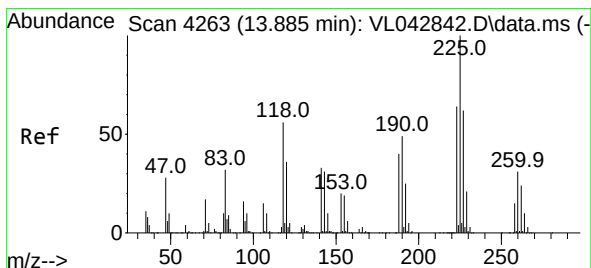
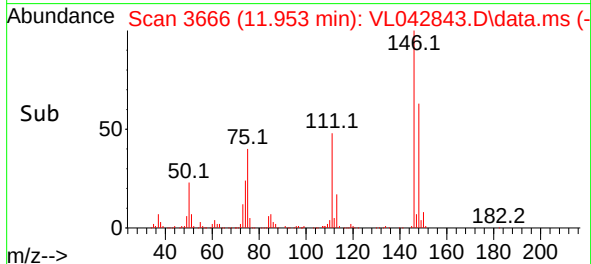
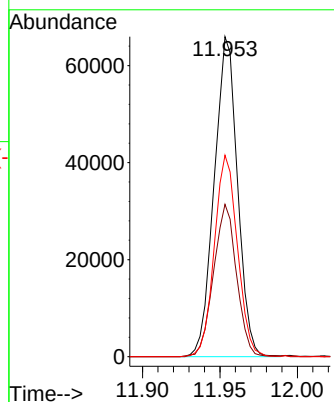
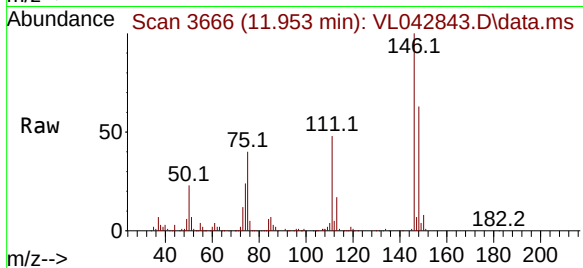




#77
 1,2-Dichlorobenzene
 Concen: 2.162 ppbv
 RT: 11.953 min Scan# 3666
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

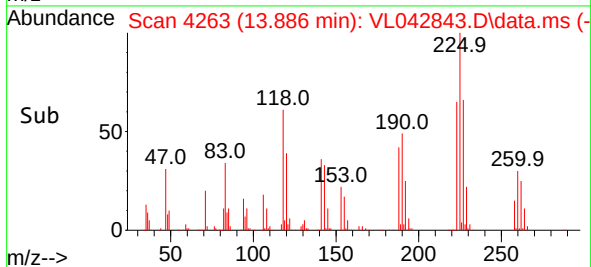
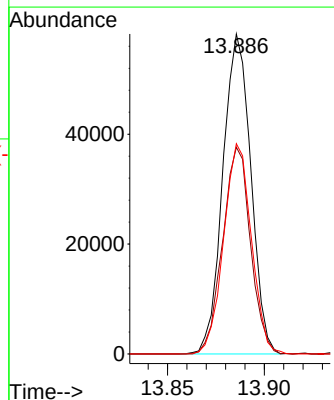
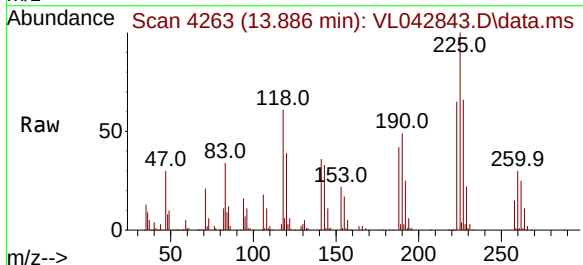
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

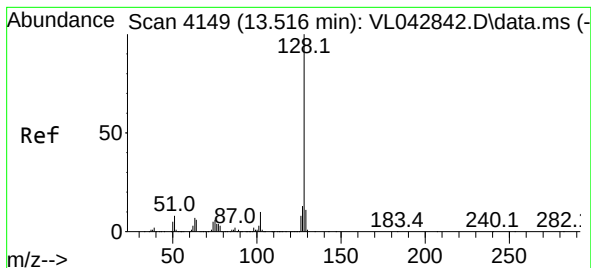
Tgt Ion:146 Resp: 68944
 Ion Ratio Lower Upper
 146 100
 111 47.1 24.6 74.0
 148 62.5 32.0 96.0



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.239 ppbv
 RT: 13.886 min Scan# 4263
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Tgt Ion:225 Resp: 58509
 Ion Ratio Lower Upper
 225 100
 223 64.5 51.4 77.2
 227 65.2 51.9 77.9





#79

Naphthalene

Concen: 2.478 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

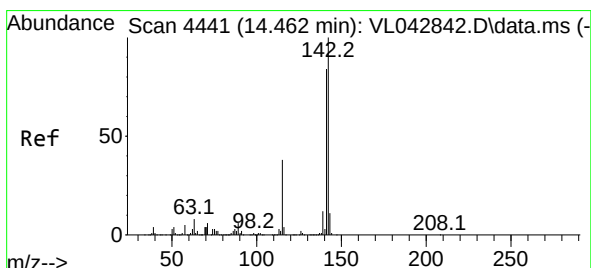
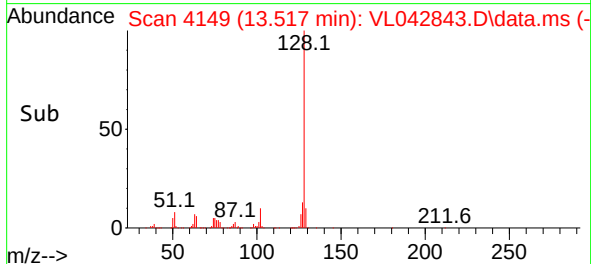
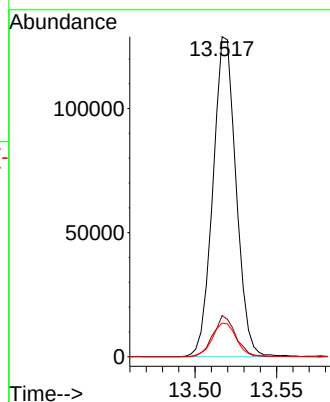
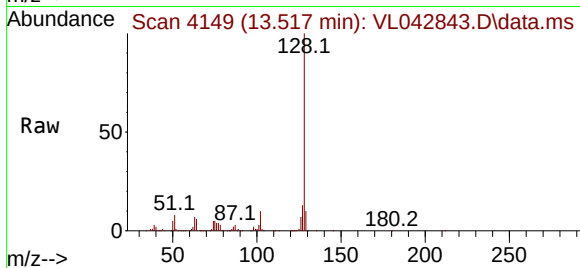
Tgt Ion:128 Resp: 127025

Ion Ratio Lower Upper

128 100

127 12.9 10.6 16.0

129 10.5 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 2.670 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

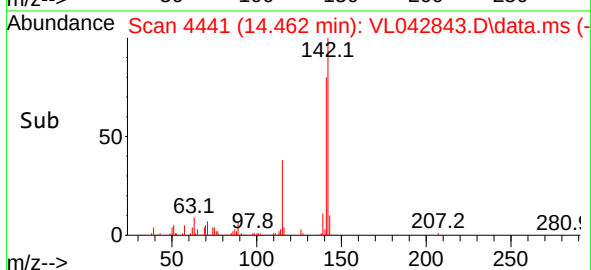
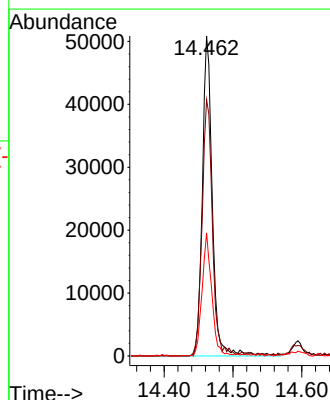
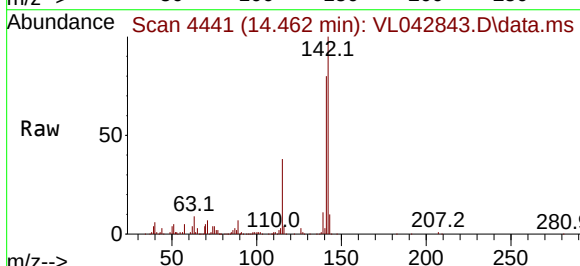
Tgt Ion:142 Resp: 51541

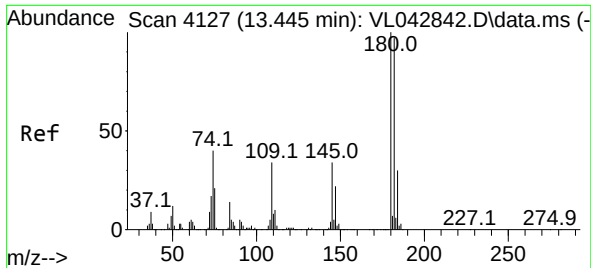
Ion Ratio Lower Upper

142 100

141 83.9 67.0 100.6

115 37.8 30.9 46.3

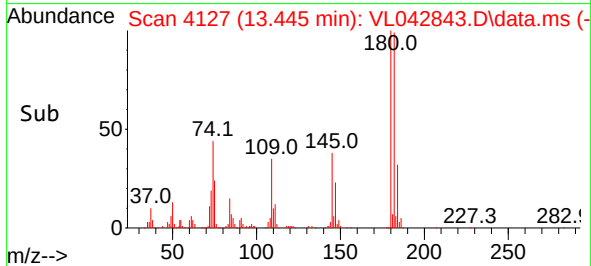
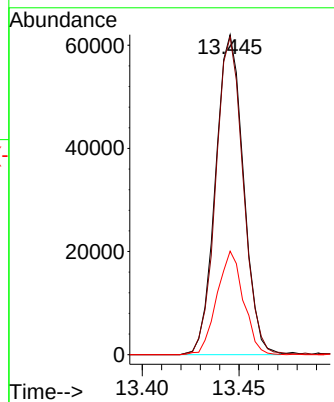
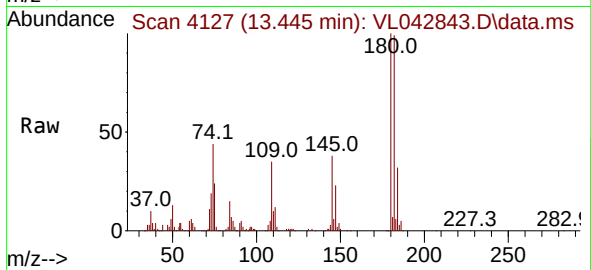




#81
 1,2,4-Trichlorobenzene
 Concen: 2.384 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042843.D
 Acq: 13 Aug 2025 09:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:180 Resp: 62216
 Ion Ratio Lower Upper
 180 100
 182 98.0 76.9 115.3
 184 30.8 24.5 36.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042844.D
 Acq On : 13 Aug 2025 09:41
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

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 26 06:05:16 2022
 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	4.991	43	10068	0.419	ppbv #	1
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	1519	1.705	ppbv	85
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	2.040	96	6629	0.910	ppbv	84
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	6572	0.469	ppbv #	85
40) 1,4-Dioxane	4.603	88	3925	0.599	ppbv #	25
41) Tetrahydrofuran	3.062	42	15552	1.032	ppbv	94
42) Bromodichloromethane	4.499	83	29683	0.995	ppbv	99
43) Methyl Methacrylate	4.898	69	5494	0.349	ppbv #	1
44) 2,2,4-Trimethylpentane	4.645	57	64930	1.009	ppbv	96
45) t-1,3-Dichloropropene	6.429	75	7736	0.434	ppbv	96

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

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 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

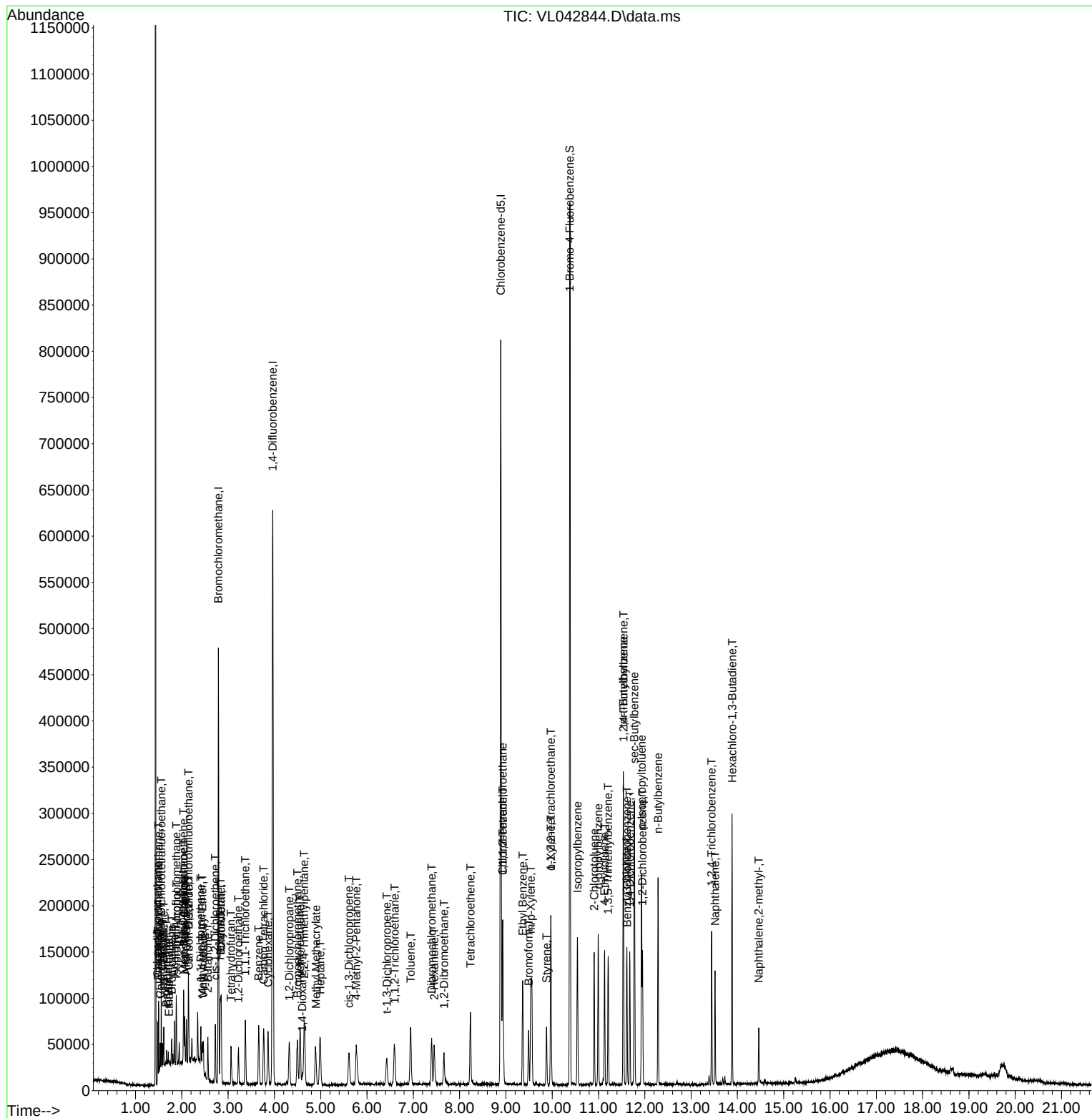
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.610	75	22372	0.999	ppbv	94
47) 1,1,2-Trichloroethane	6.597	97	15295	1.032	ppbv	86
48) Dibromochloromethane	7.396	129	24214	1.009	ppbv	99
49) Bromoform	9.490	173	20579	1.040	ppbv	98
50) 4-Methyl-2-Pentanone	5.768	43	36710	1.001	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	9.539	91	53658	1.108	ppbv #	100
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

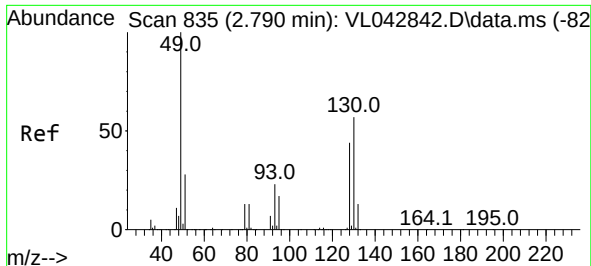
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042844.D
Acq On : 13 Aug 2025 09:41
Operator : SY/MD
Sample : VSTDIC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

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 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

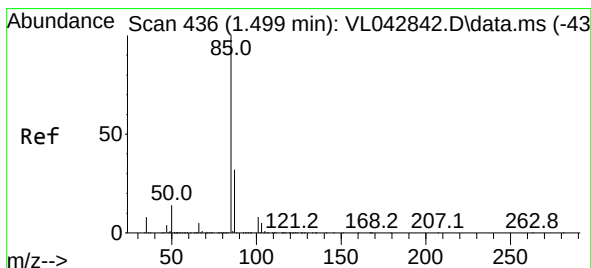
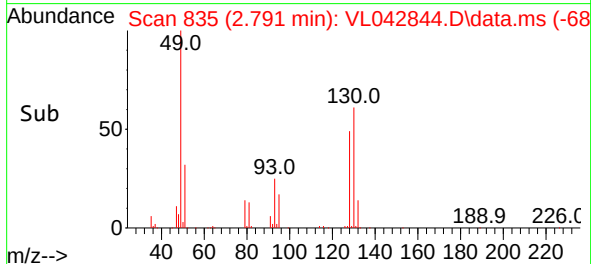
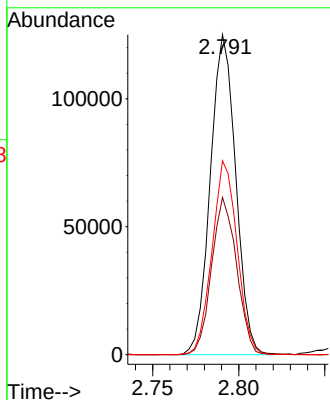
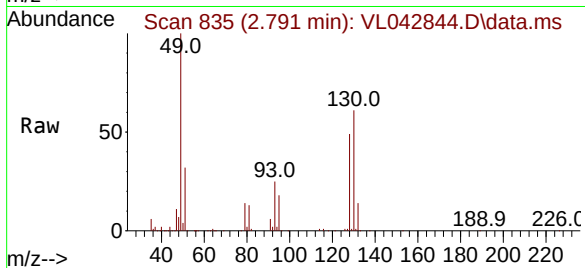




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 835
Delta R.T. 0.001 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

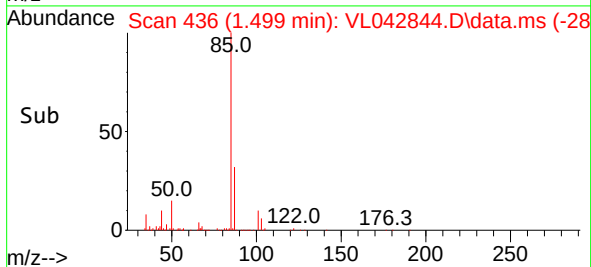
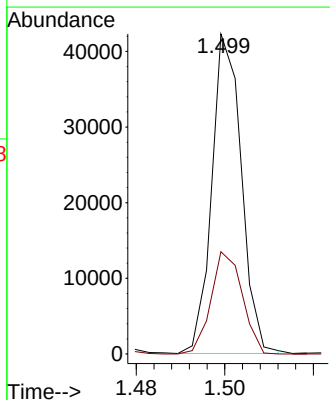
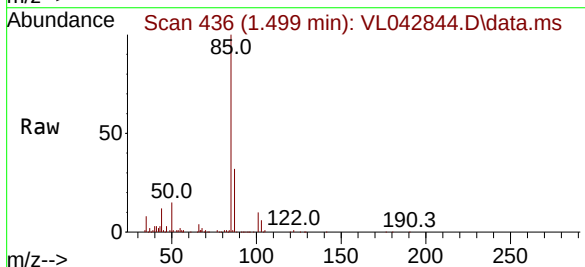
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

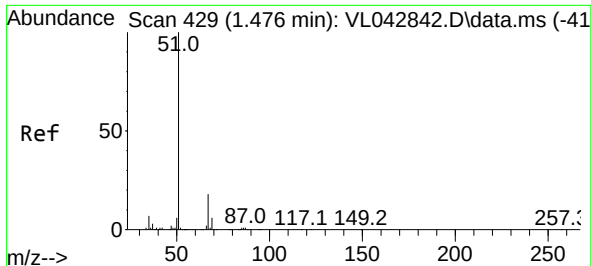
Tgt Ion: 49 Resp: 128542
Ion Ratio Lower Upper
49 100
128 48.4 23.7 71.1
130 59.9 30.6 91.6



#2
Dichlorodifluoromethane
Concen: 1.041 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 85 Resp: 19603
Ion Ratio Lower Upper
85 100
87 32.0 25.3 37.9

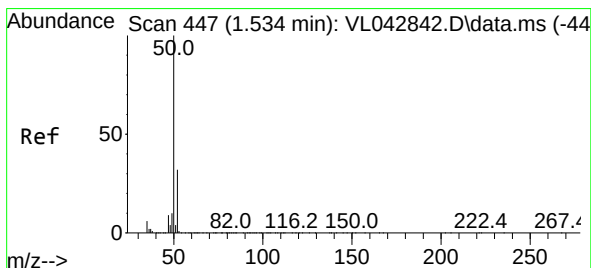
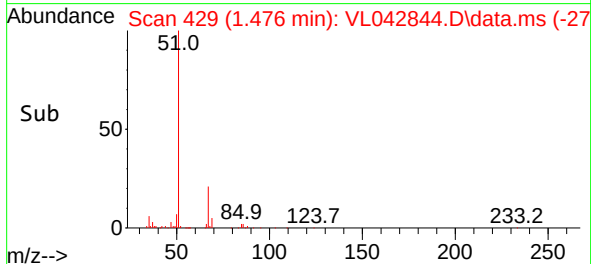
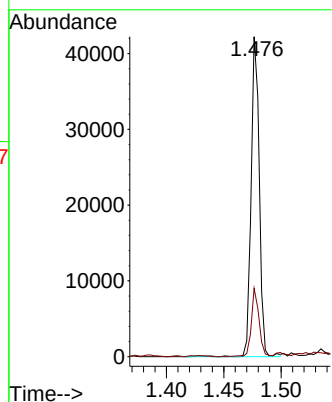
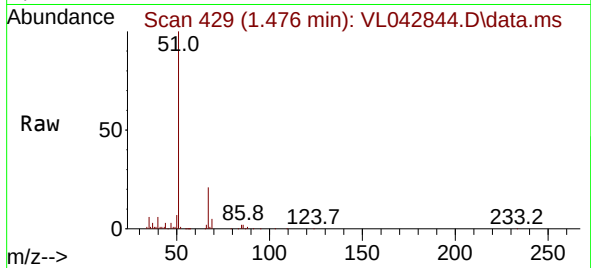




#3
 Chlorodifluoromethane
 Concen: 0.999 ppbv
 RT: 1.476 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

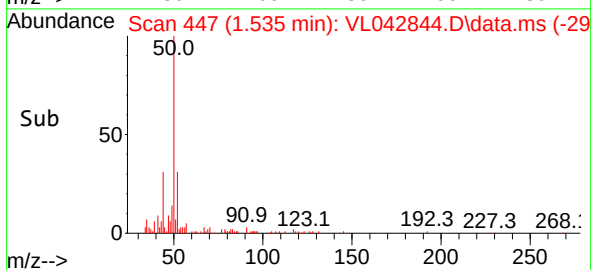
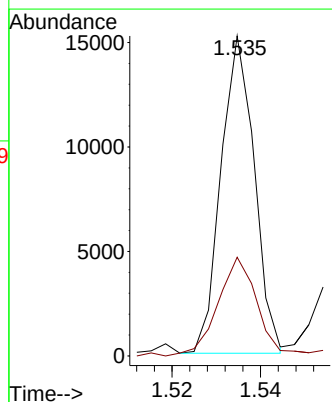
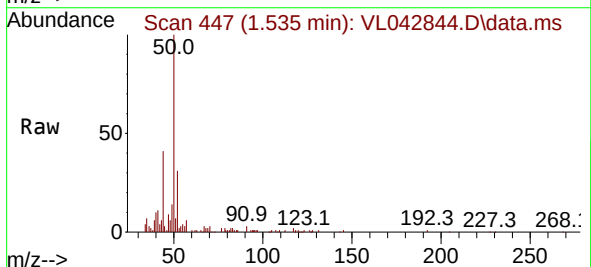
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

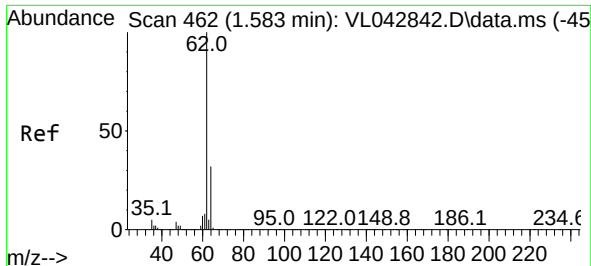
Tgt Ion: 51 Resp: 20833
 Ion Ratio Lower Upper
 51 100
 67 21.9 14.9 22.3



#4
 Chloromethane
 Concen: 1.045 ppbv
 RT: 1.535 min Scan# 447
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion: 50 Resp: 7948
 Ion Ratio Lower Upper
 50 100
 52 30.2 25.9 38.9

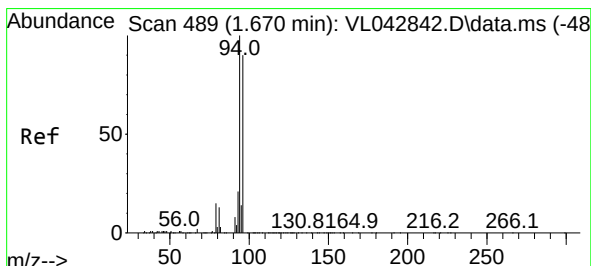
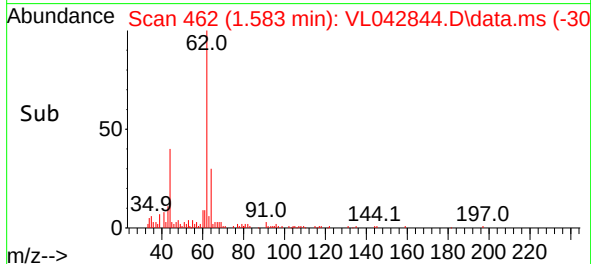
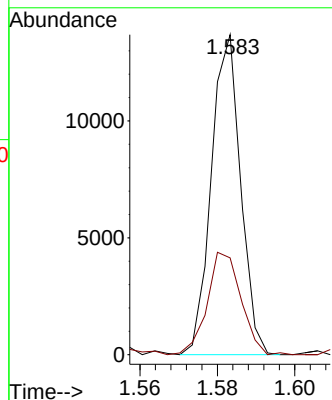
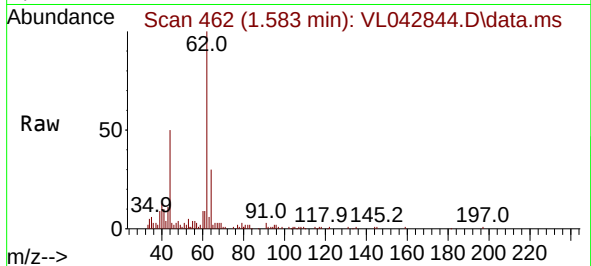




#5
 Vinyl Chloride
 Concen: 0.960 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

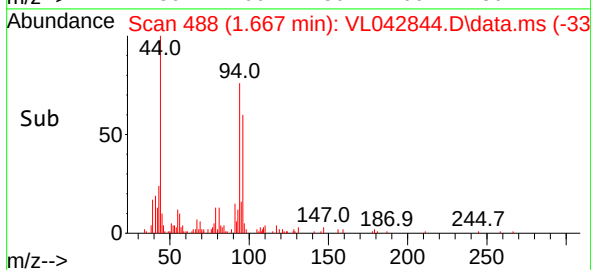
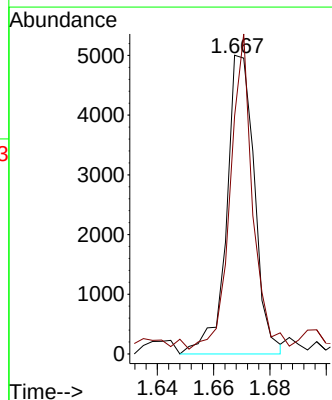
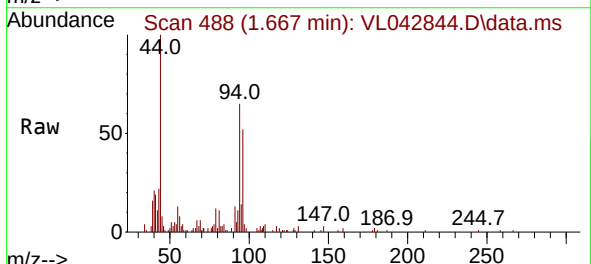
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

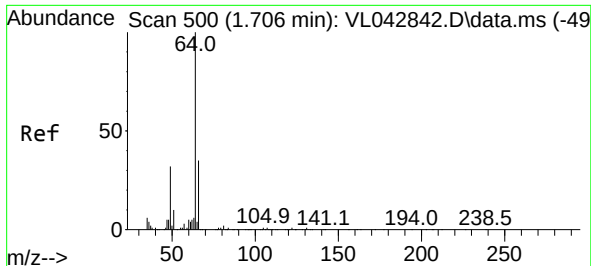
Tgt Ion: 62 Resp: 7189
 Ion Ratio Lower Upper
 62 100
 64 29.7 25.4 38.2



#6
 Bromomethane
 Concen: 1.151 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion: 94 Resp: 3446
 Ion Ratio Lower Upper
 94 100
 96 74.7 72.1 108.1

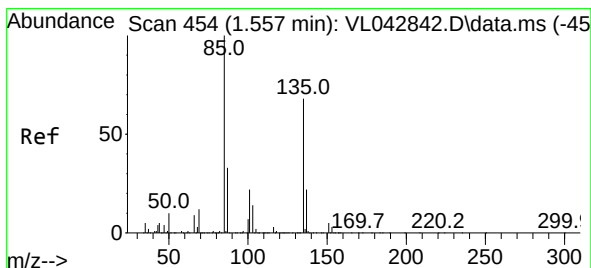
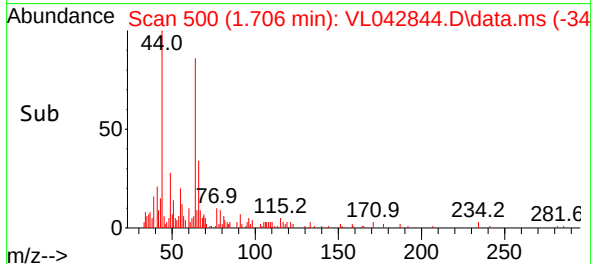
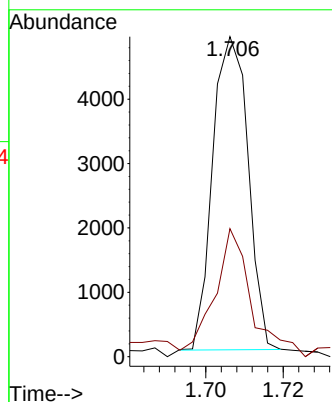
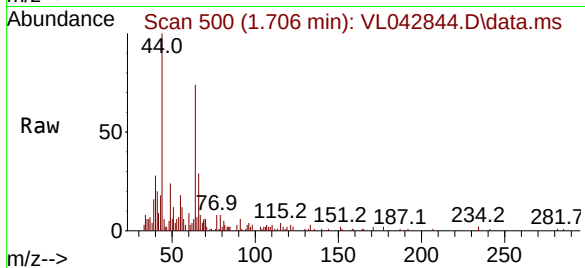




#7
Chloroethane
Concen: 1.056 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

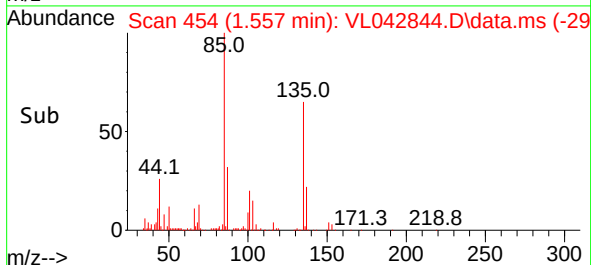
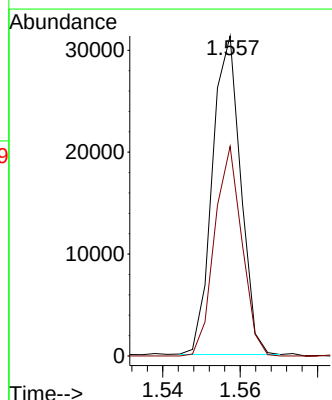
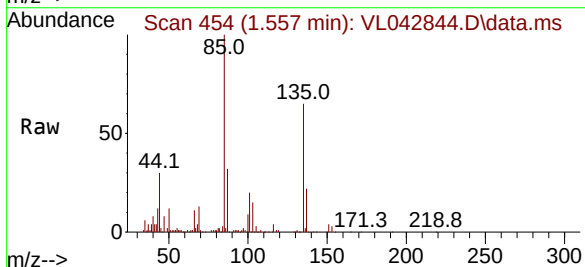
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

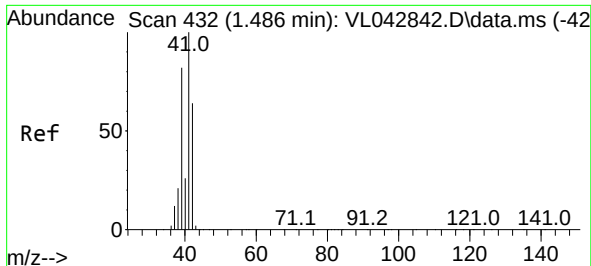
Tgt Ion: 64 Resp: 3089
Ion Ratio Lower Upper
64 100
66 40.0 28.6 42.8



#8
Dichlorotetrafluoroethane
Concen: 1.030 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 85 Resp: 15872
Ion Ratio Lower Upper
85 100
135 63.7 51.2 76.8





#9

Propene

Concen: 0.989 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

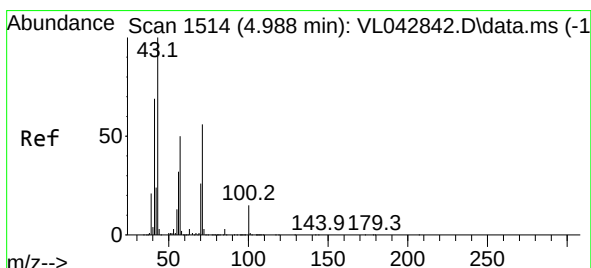
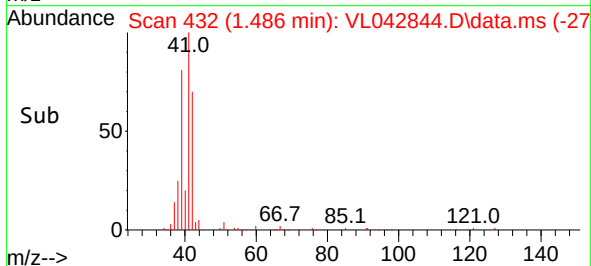
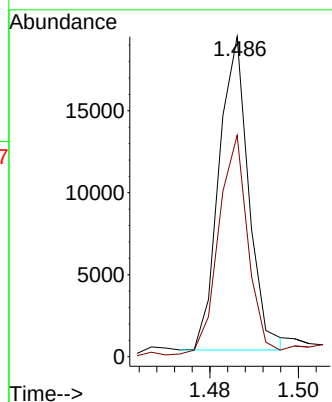
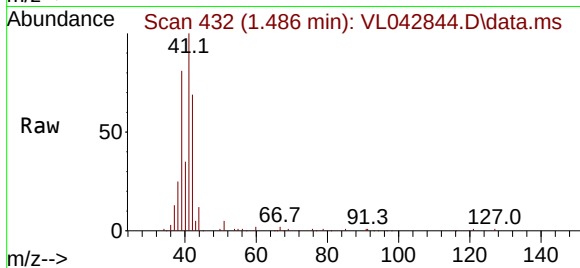
VSTDIC001

Tgt Ion: 41 Resp: 8897

Ion Ratio Lower Upper

41 100

42 74.9 53.0 79.4



#10

Heptane

Concen: 0.419 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.004 min

Lab File: VL042844.D

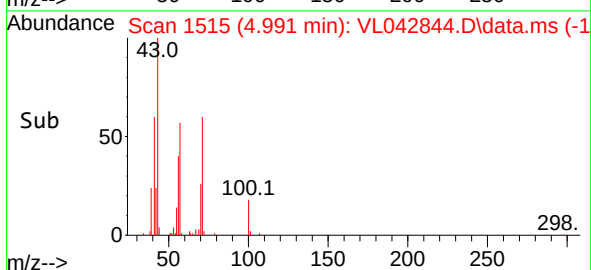
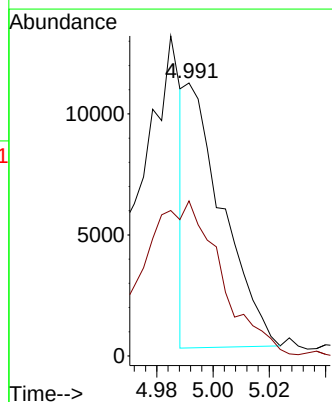
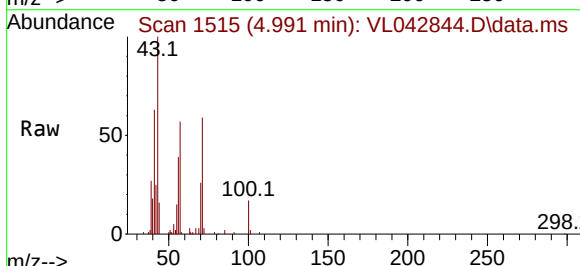
Acq: 13 Aug 2025 09:41

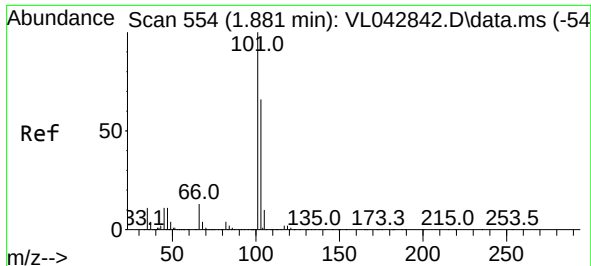
Tgt Ion: 43 Resp: 10068

Ion Ratio Lower Upper

43 100

57 133.5 41.4 62.0#

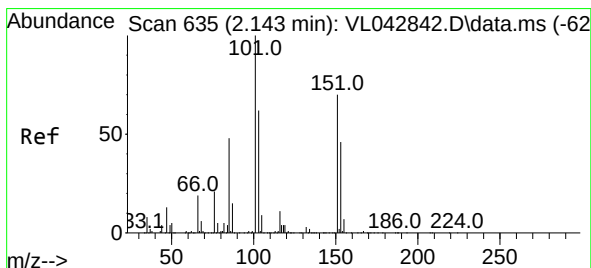
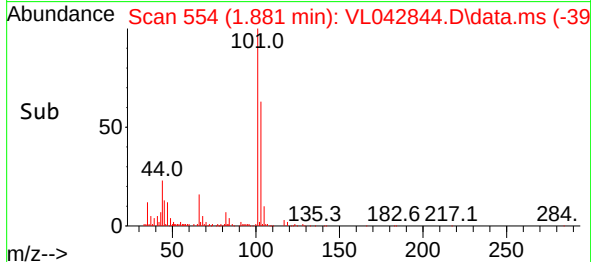
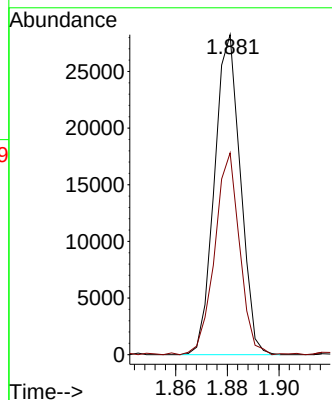
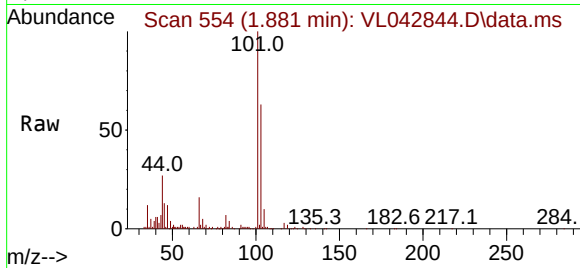




#11
 Trichlorofluoromethane
 Concen: 1.060 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

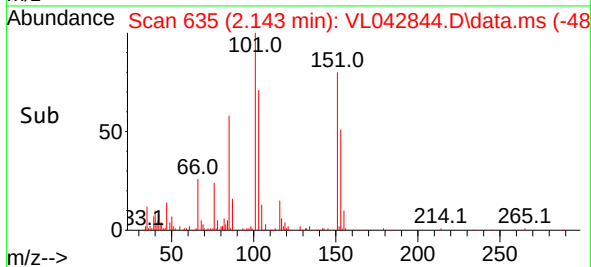
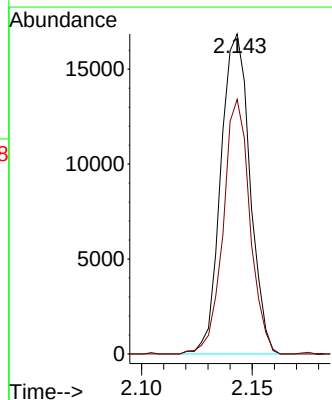
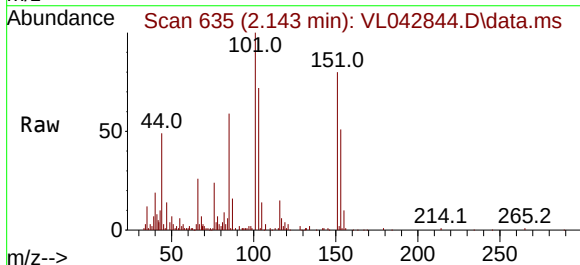
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

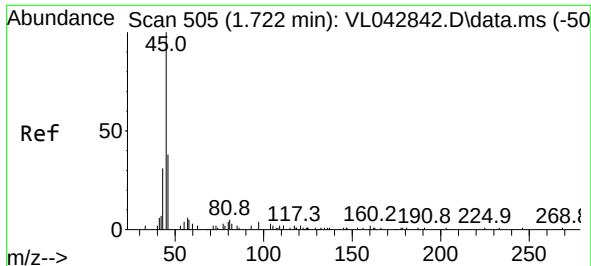
Tgt Ion:101 Resp: 19701
 Ion Ratio Lower Upper
 101 100
 103 62.8 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.043 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion:101 Resp: 15446
 Ion Ratio Lower Upper
 101 100
 151 73.2 56.4 84.6

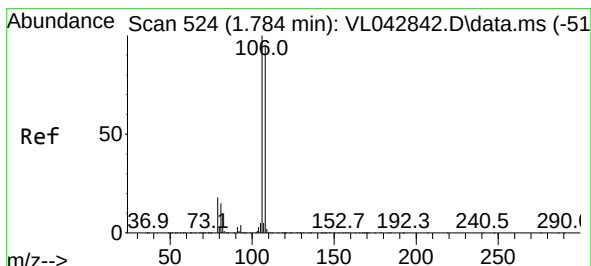
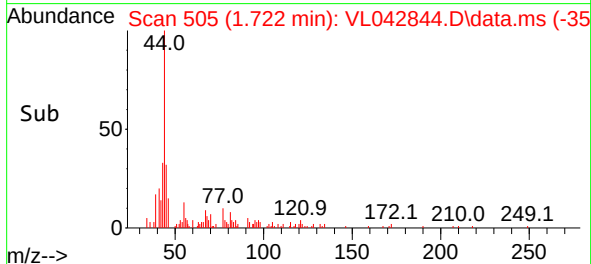
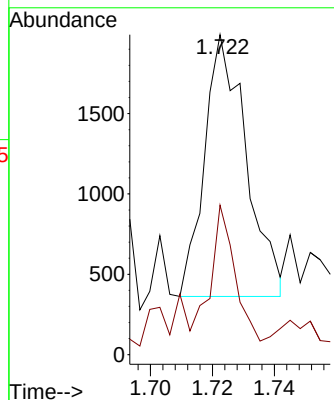
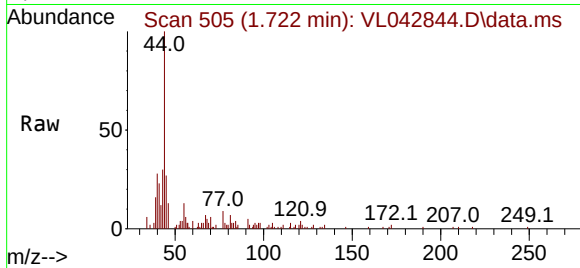




#13
Ethanol
Concen: 1.705 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

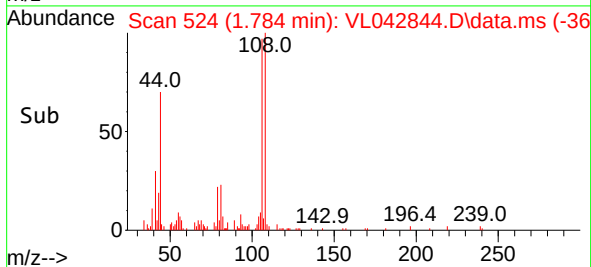
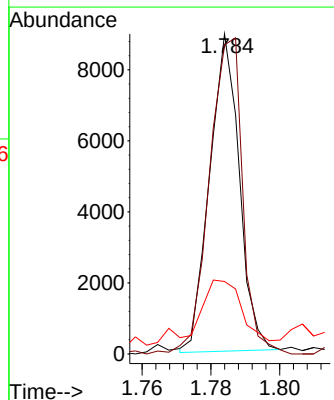
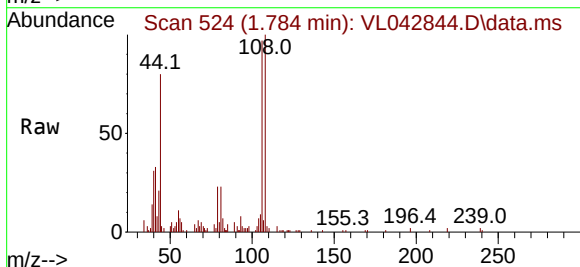
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

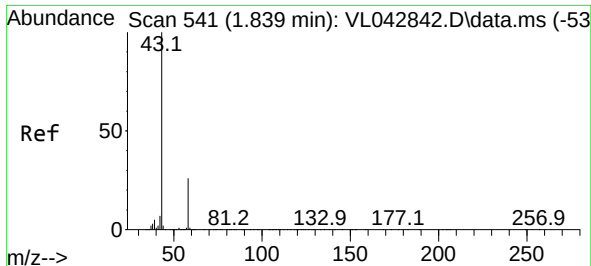
Tgt Ion: 45 Resp: 1519
Ion Ratio Lower Upper
45 100
46 53.5 17.5 69.9



#14
Bromoethene
Concen: 0.996 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 108 Resp: 5343
Ion Ratio Lower Upper
108 100
106 117.1 85.1 127.7
79 58.9 16.3 24.5#





#15

Acetone

Concen: 1.115 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_1

ClientSampleId :

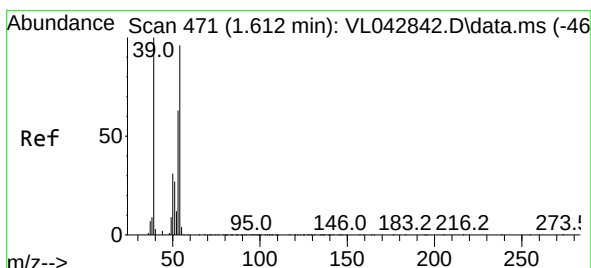
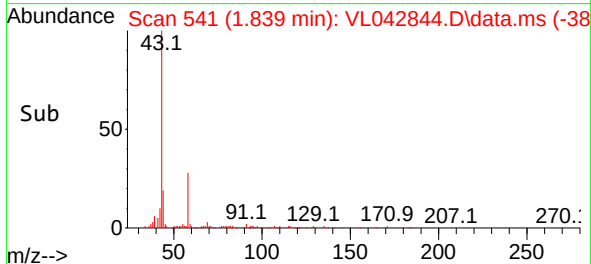
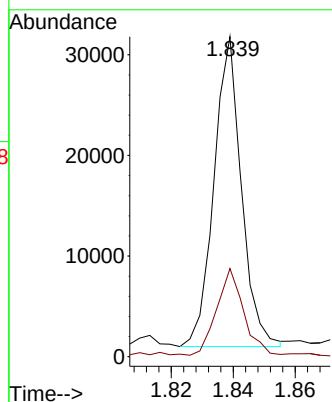
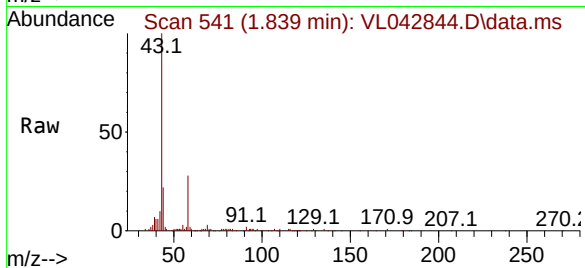
VSTDIC001

Tgt Ion: 43 Resp: 18961

Ion Ratio Lower Upper

43 100

58 29.1 22.4 33.6



#16

1,3-Butadiene

Concen: 1.055 ppbv

RT: 1.609 min Scan# 470

Delta R.T. -0.003 min

Lab File: VL042844.D

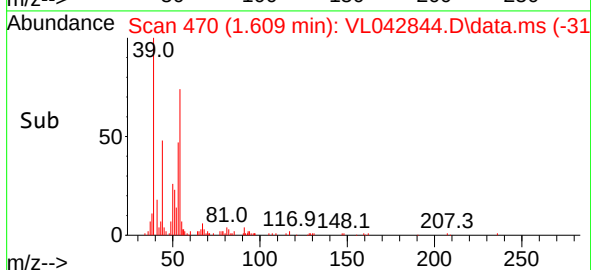
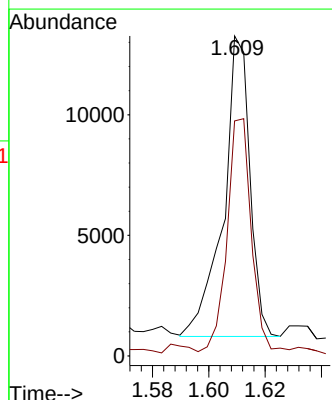
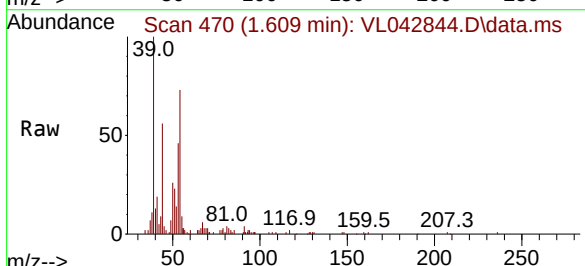
Acq: 13 Aug 2025 09:41

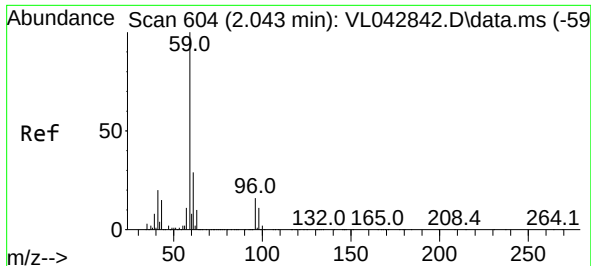
Tgt Ion: 39 Resp: 8133

Ion Ratio Lower Upper

39 100

54 78.0 63.6 95.4





#17

tert-Butyl alcohol

Concen: 1.058 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_1

ClientSampleId :

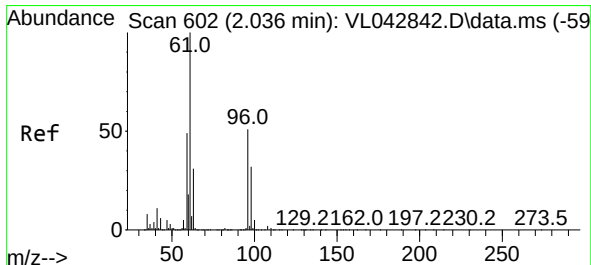
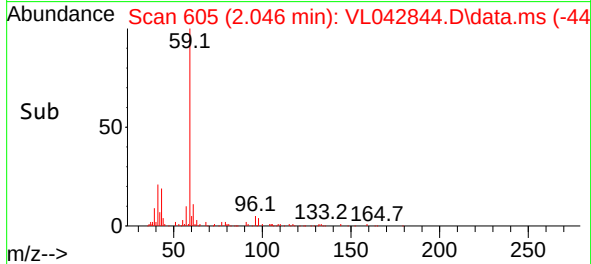
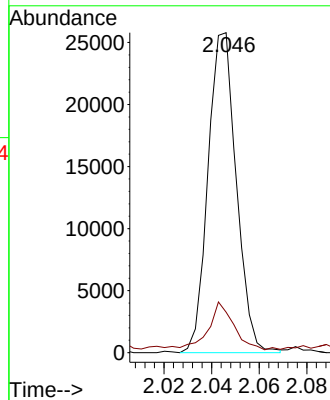
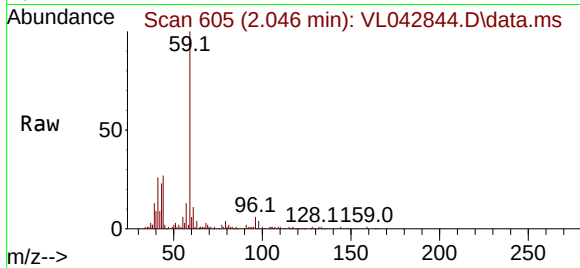
VSTDIC001

Tgt Ion: 59 Resp: 21342

Ion Ratio Lower Upper

59 100

57 13.7 9.0 13.4#



#18

1,1-Dichloroethene

Concen: 1.006 ppbv

RT: 2.040 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

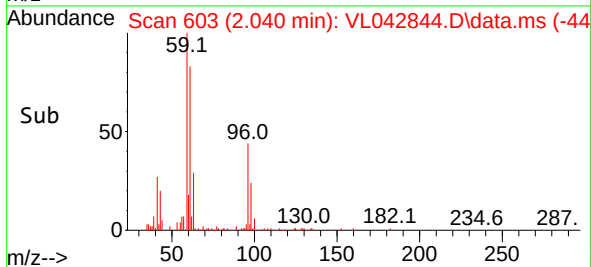
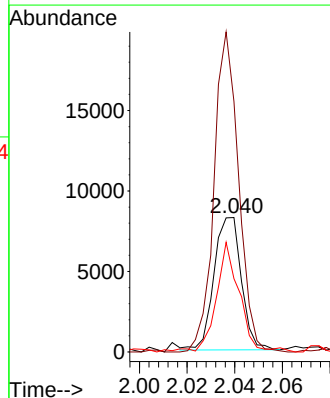
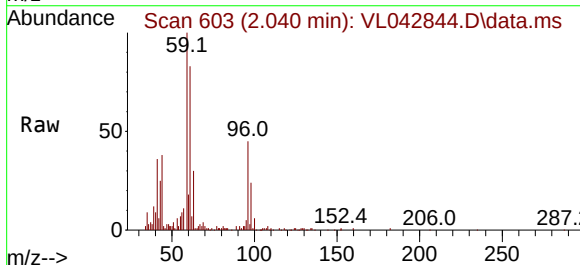
Tgt Ion: 96 Resp: 6549

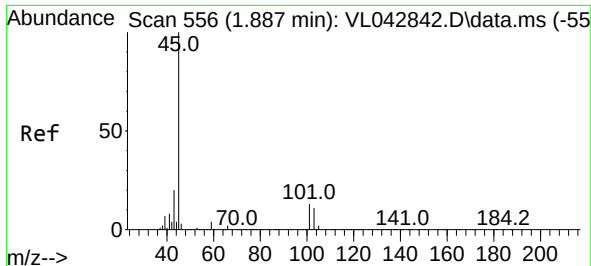
Ion Ratio Lower Upper

96 100

61 189.6 158.2 237.4

98 53.1 50.6 76.0

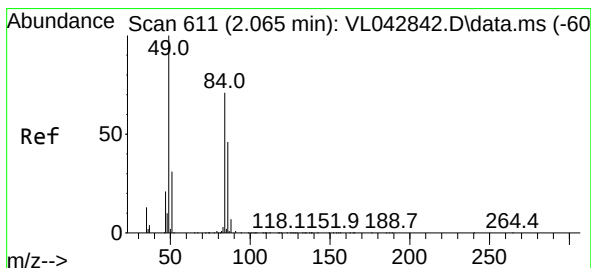
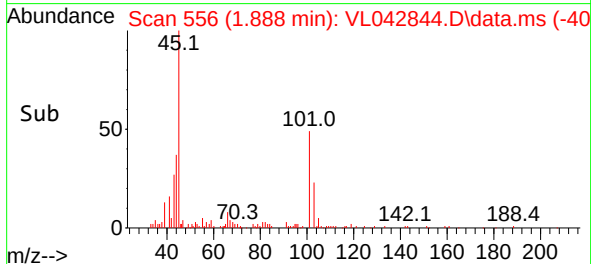
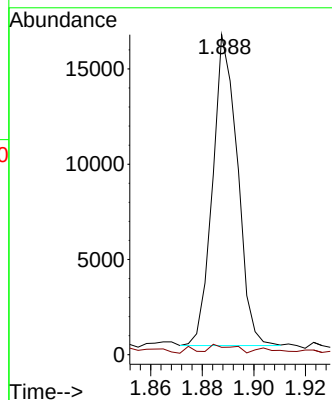
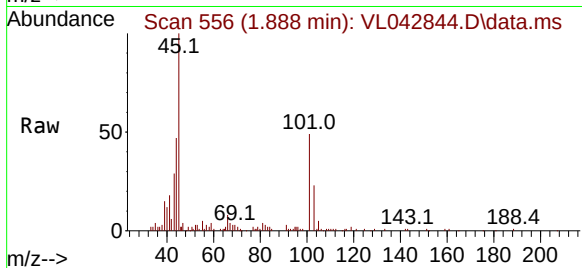




#19
Isopropyl Alcohol
Concen: 1.073 ppbv
RT: 1.888 min Scan# 510
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

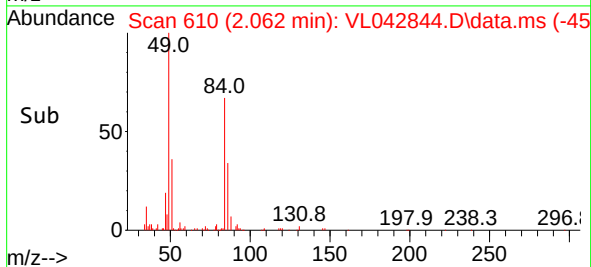
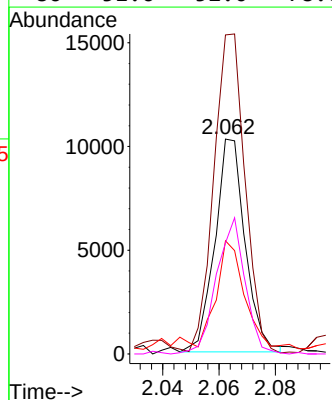
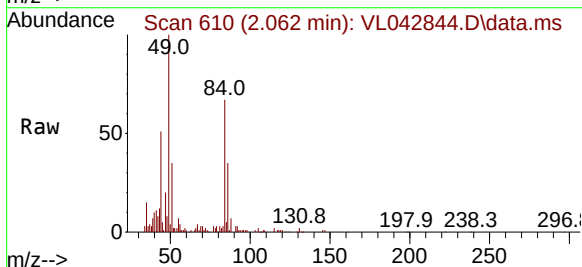
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

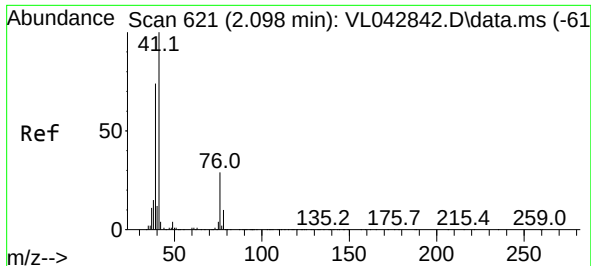
Tgt Ion: 45 Resp: 10893
Ion Ratio Lower Upper
45 100
58 2.9 32.7 49.1#



#20
Methylene Chloride
Concen: 1.076 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 84 Resp: 7661
Ion Ratio Lower Upper
84 100
49 149.4 112.3 168.5
51 49.2 36.0 54.0
86 51.6 52.0 78.0#

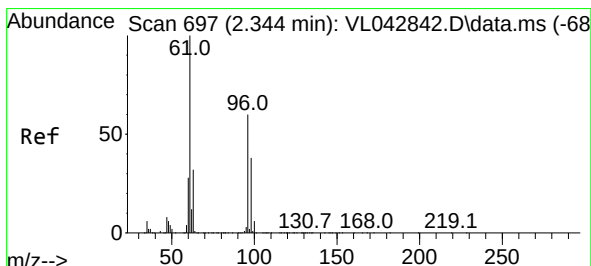
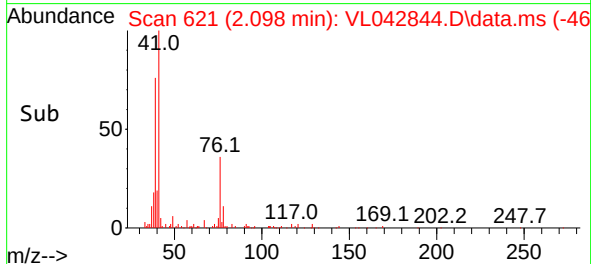
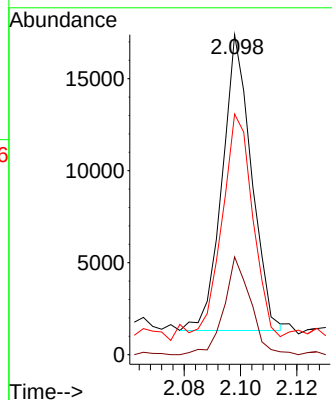
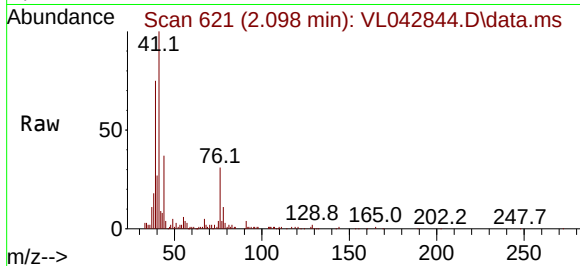




#21
 Allyl Chloride
 Concen: 0.966 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

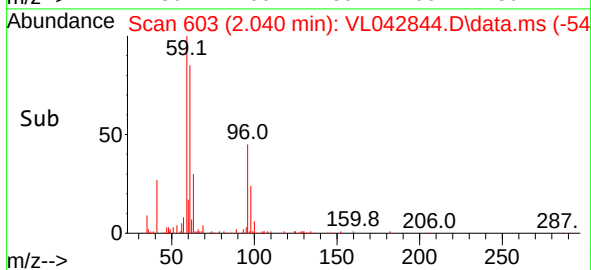
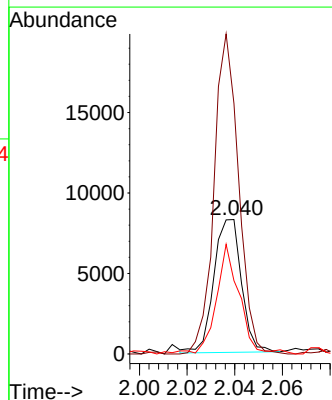
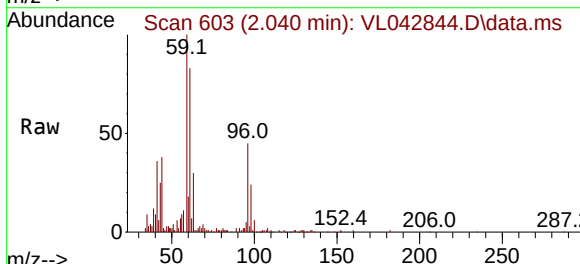
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

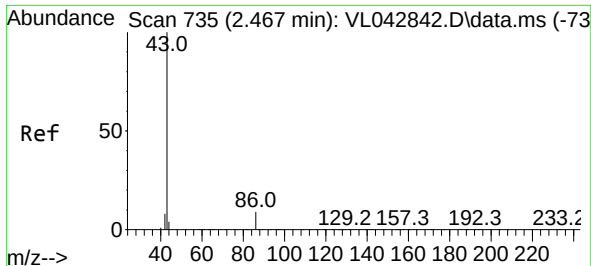
Tgt Ion: 41 Resp: 11598
 Ion Ratio Lower Upper
 41 100
 76 30.9 23.9 35.9
 39 86.2 57.8 86.6



#22
 trans-1,2-Dichloroethene
 Concen: 0.910 ppbv
 RT: 2.040 min Scan# 603
 Delta R.T. -0.304 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion: 96 Resp: 6629
 Ion Ratio Lower Upper
 96 100
 61 189.6 132.6 199.0
 98 53.1 50.0 75.0

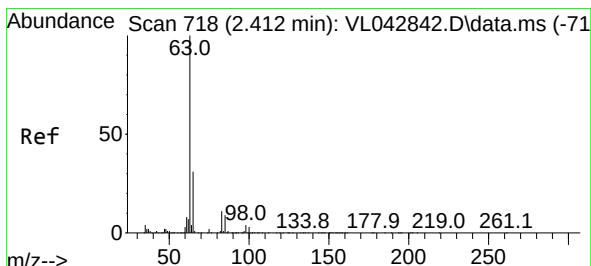
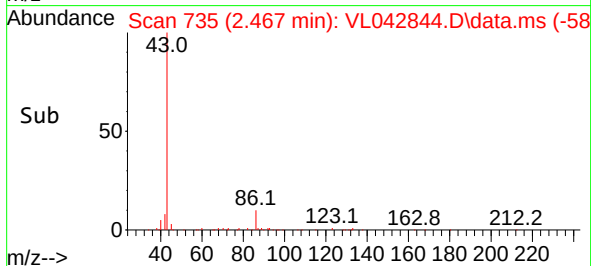
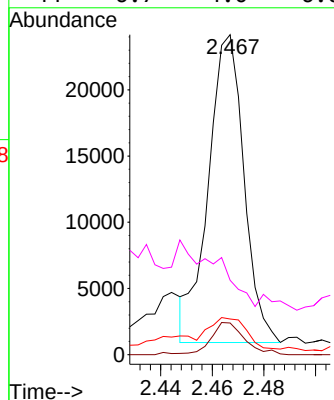
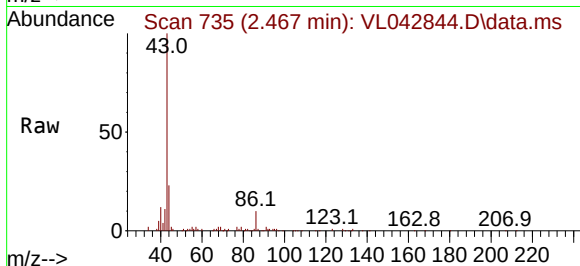




#23
 Vinyl Acetate
 Concen: 0.996 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

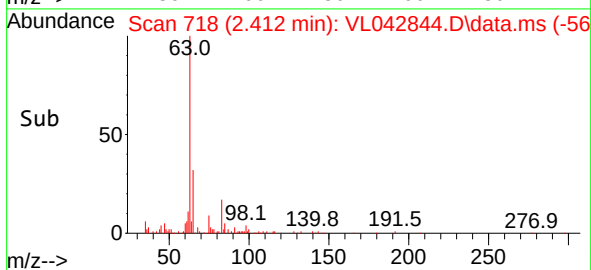
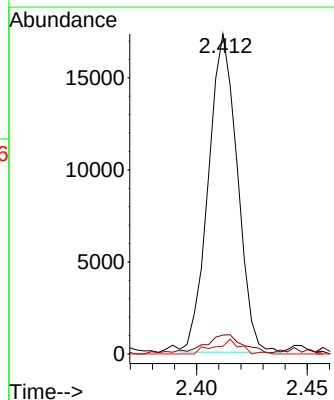
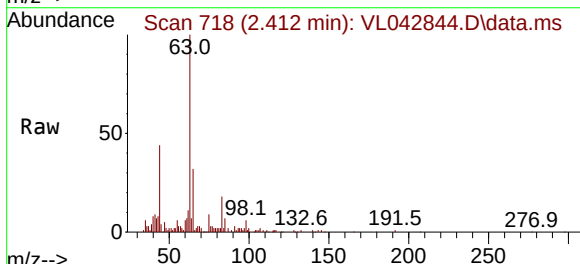
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

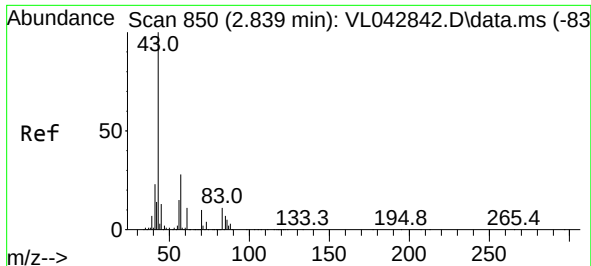
Tgt Ion:	43	Resp:	22270
Ion	Ratio	Lower	Upper
43	100		
86	10.0	6.6	9.8#
42	9.8	7.0	10.6
44	6.7	4.0	6.0#



#24
 1,1-Dichloroethane
 Concen: 1.045 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion:	63	Resp:	15727
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.1	6.5
100	2.4	1.7	5.1

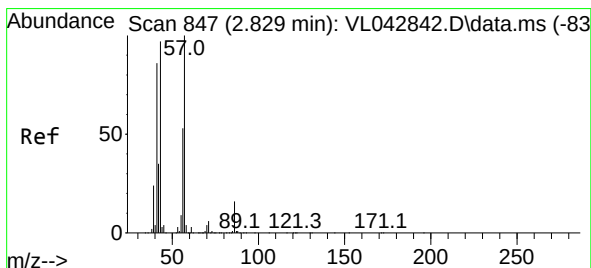
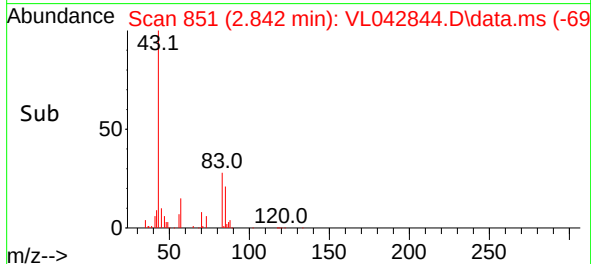
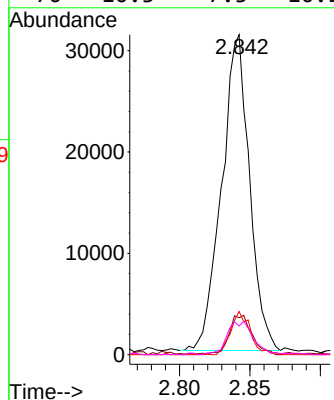
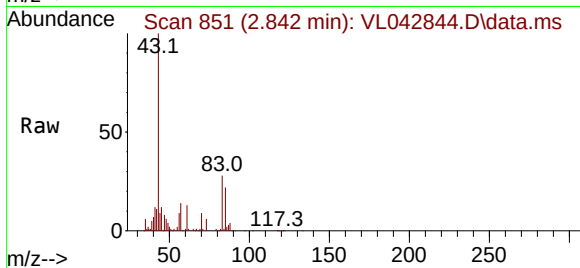




#25
Ethyl Acetate
Concen: 1.045 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

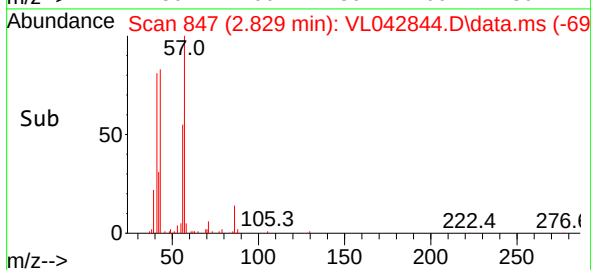
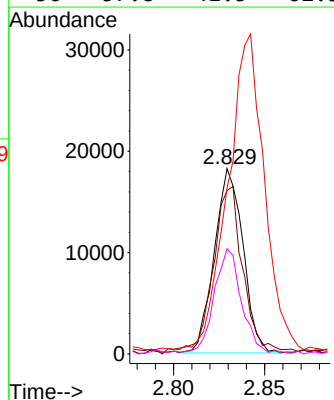
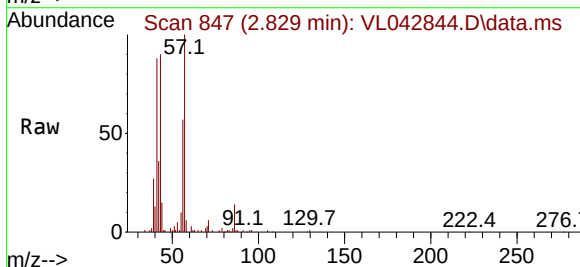
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

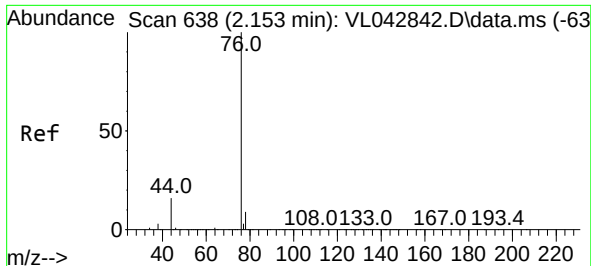
Tgt Ion:	43	Resp:	43007
Ion	Ratio	Lower	Upper
43	100		
45	11.2	8.1	12.1
61	9.7	7.4	11.2
70	10.3	7.3	10.9



#26
Hexane
Concen: 1.050 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:	57	Resp:	19944
Ion	Ratio	Lower	Upper
57	100		
41	93.6	68.6	103.0
43	222.4	168.5	252.7
56	57.8	41.5	62.3





#27

Carbon Disulfide

Concen: 1.052 ppbv

RT: 2.153 min Scan# 638

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

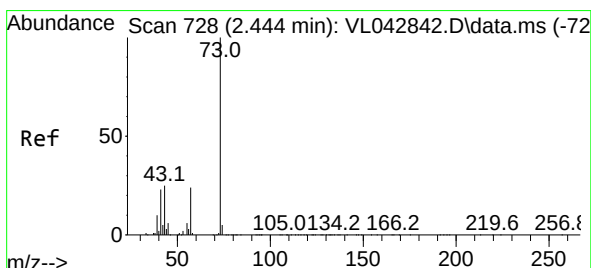
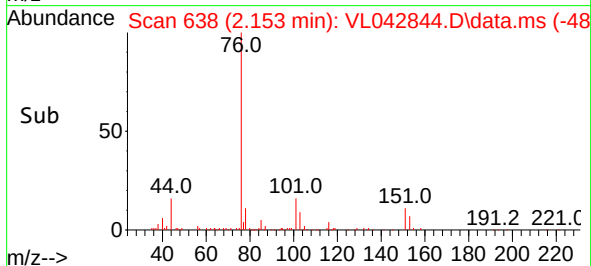
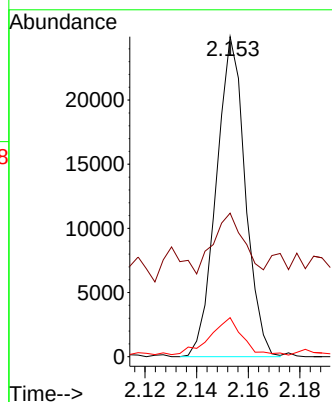
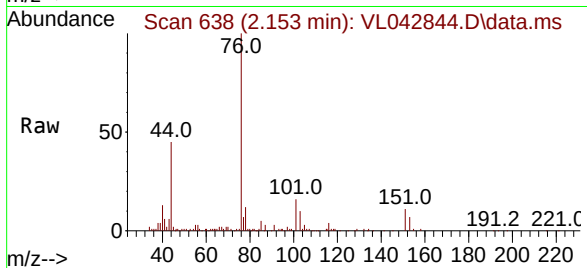
Tgt Ion: 76 Resp: 19450

Ion Ratio Lower Upper

76 100

44 88.3 15.9 23.9#

78 17.1 9.5 14.3#



#28

Methyl tert-Butyl Ether

Concen: 0.991 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.000 min

Lab File: VL042844.D

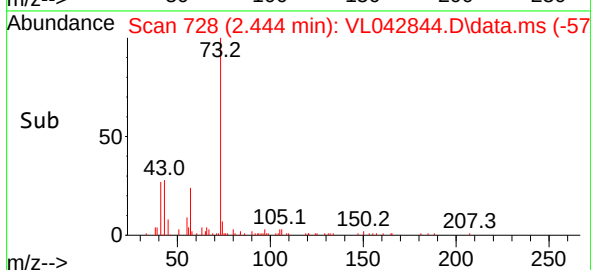
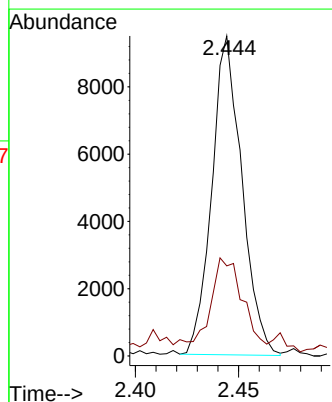
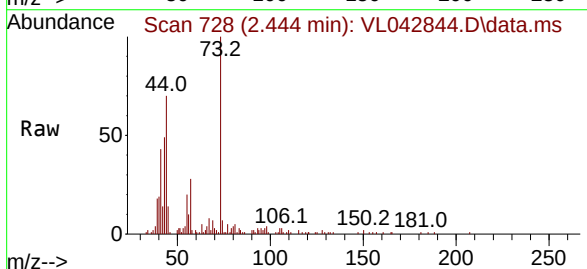
Acq: 13 Aug 2025 09:41

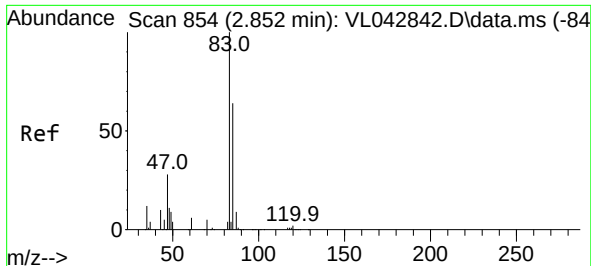
Tgt Ion: 73 Resp: 9600

Ion Ratio Lower Upper

73 100

57 33.4 21.6 32.4#





#29

Chloroform

Concen: 1.034 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

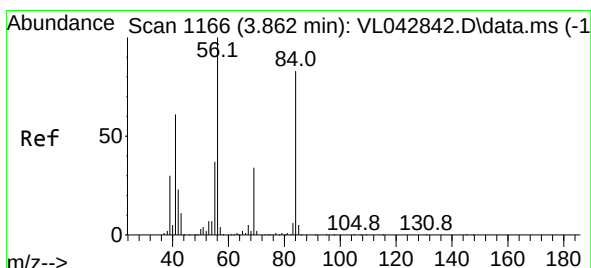
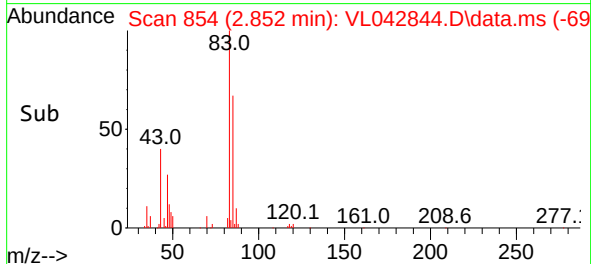
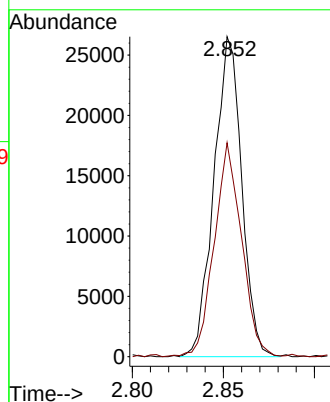
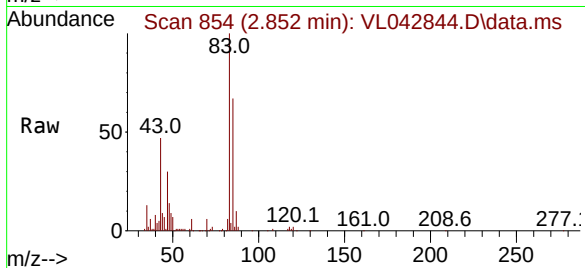
VSTDIC001

Tgt Ion: 83 Resp: 28055

Ion Ratio Lower Upper

83 100

85 66.6 51.1 76.7



#30

Cyclohexane

Concen: 0.990 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

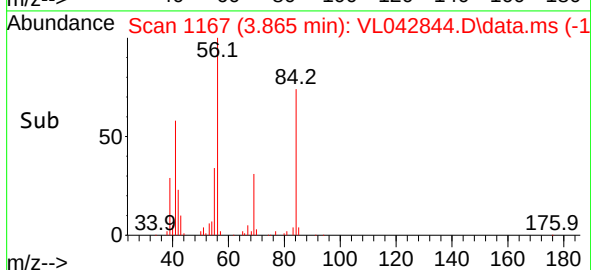
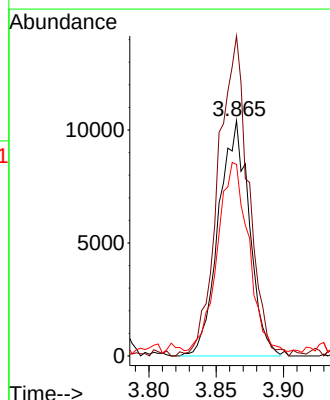
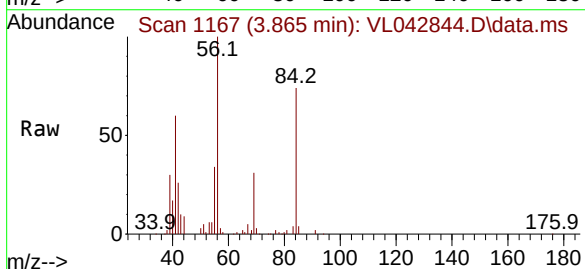
Tgt Ion: 84 Resp: 16492

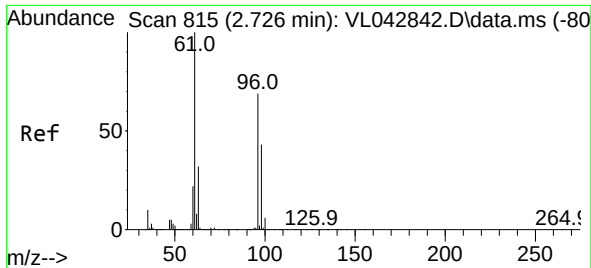
Ion Ratio Lower Upper

84 100

56 135.9 98.8 148.2

41 84.9 61.3 91.9

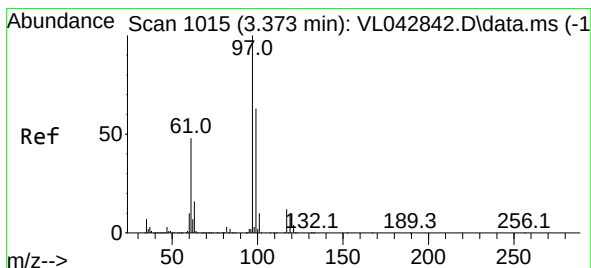
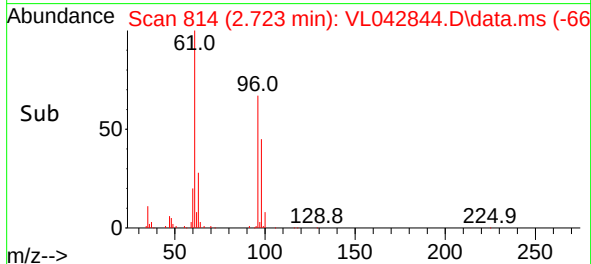
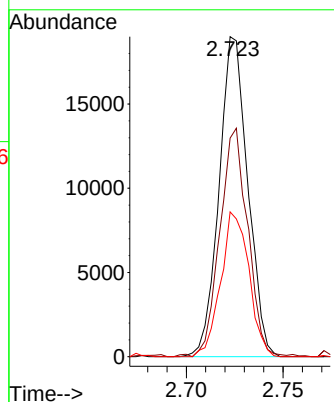
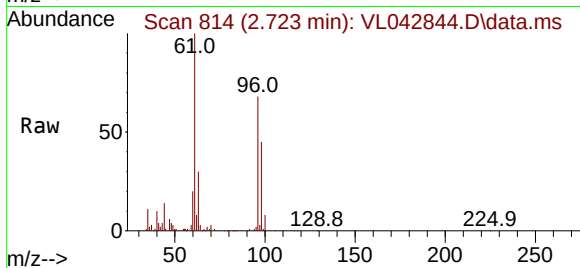




#31
 cis-1,2-Dichloroethene
 Concen: 1.031 ppbv
 RT: 2.723 min Scan# 815
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

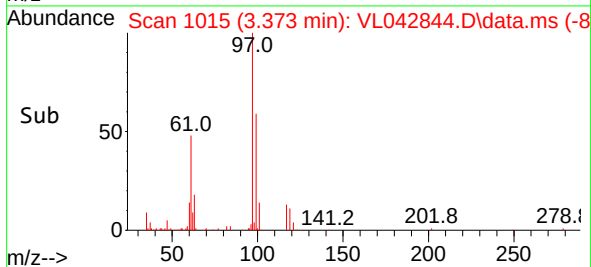
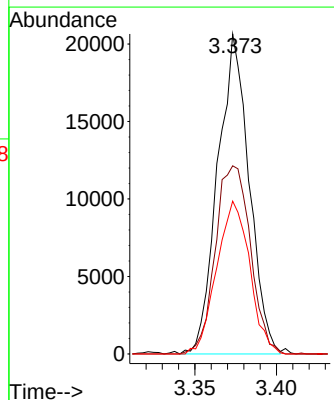
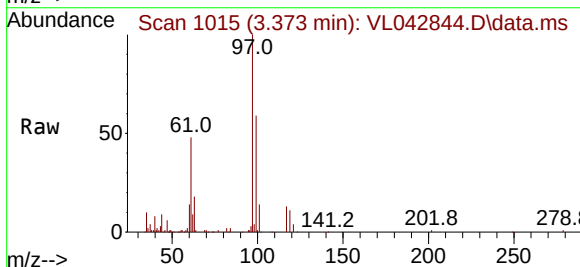
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

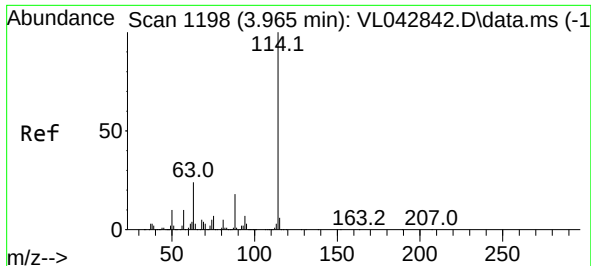
Tgt Ion:	61	Resp:	19591
Ion	Ratio	Lower	Upper
61	100		
96	67.7	55.0	82.6
98	45.2	34.3	51.5



#32
 1,1,1-Trichloroethane
 Concen: 0.961 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion:	97	Resp:	27607
Ion	Ratio	Lower	Upper
97	100		
99	65.8	51.0	76.6
61	50.2	38.0	57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

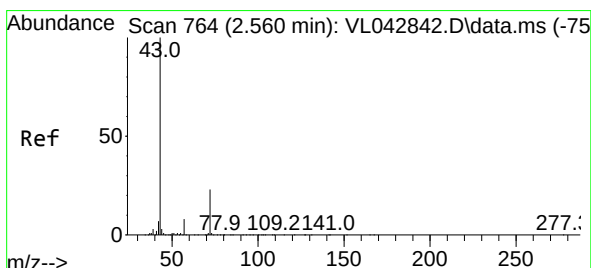
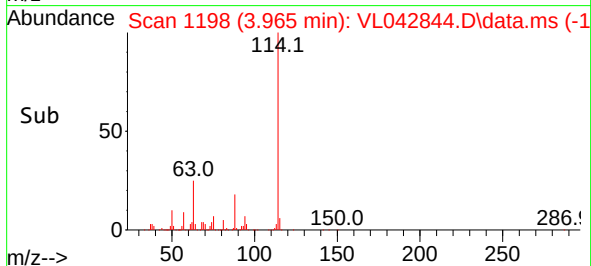
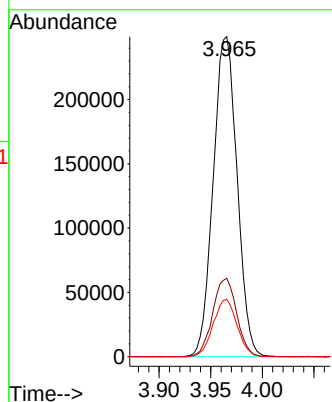
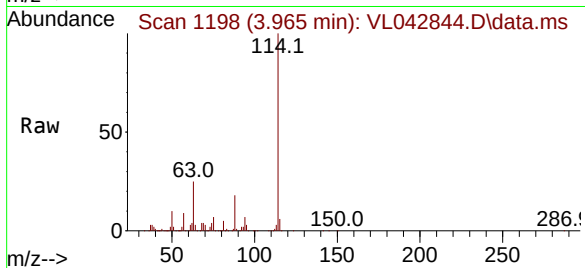
Tgt Ion:114 Resp: 400305

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

88 17.9 14.4 21.6



#34

2-Butanone

Concen: 1.040 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.003 min

Lab File: VL042844.D

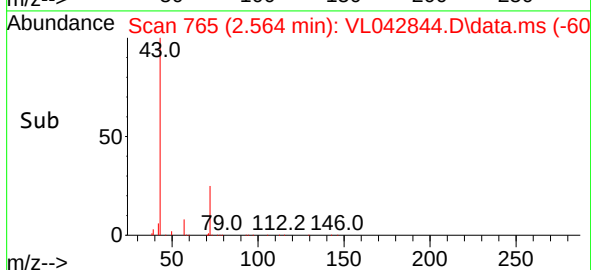
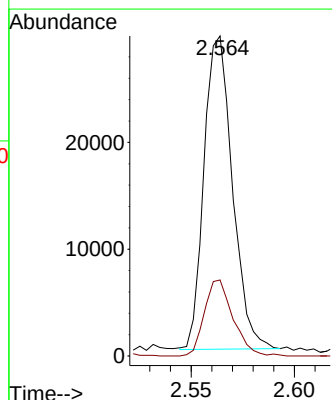
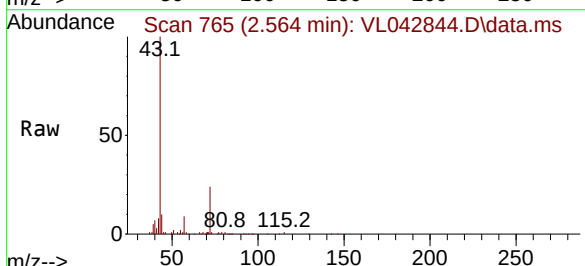
Acq: 13 Aug 2025 09:41

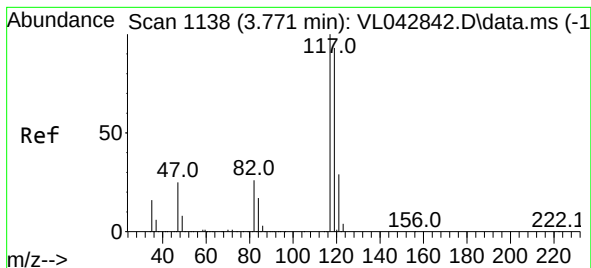
Tgt Ion: 43 Resp: 28105

Ion Ratio Lower Upper

43 100

72 24.4 18.6 28.0





#35

Carbon Tetrachloride

Concen: 1.015 ppbv

RT: 3.768 min Scan# 1137

Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

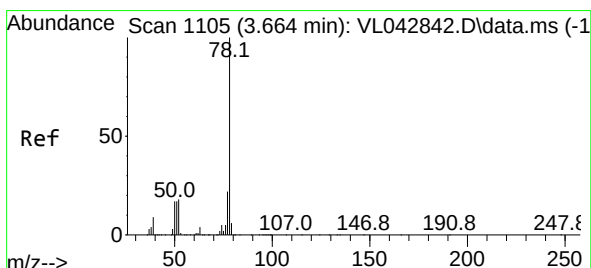
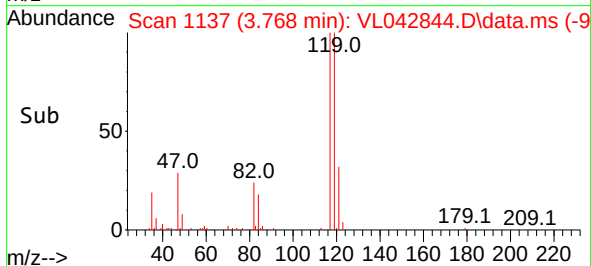
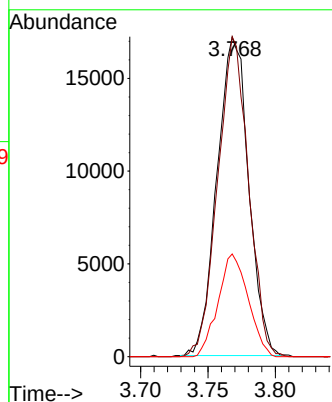
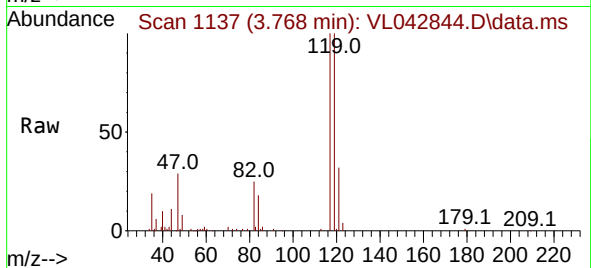
Tgt Ion:117 Resp: 28008

Ion Ratio Lower Upper

117 100

119 100.5 74.7 112.1

121 32.3 23.2 34.8



#36

Benzene

Concen: 1.021 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

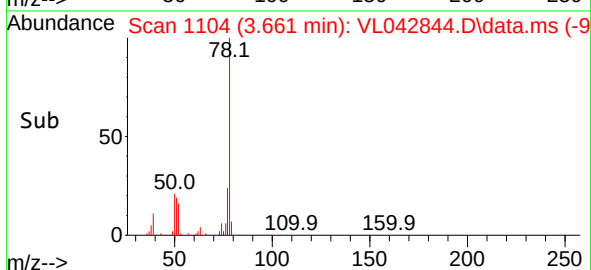
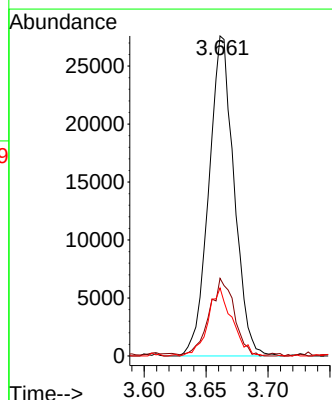
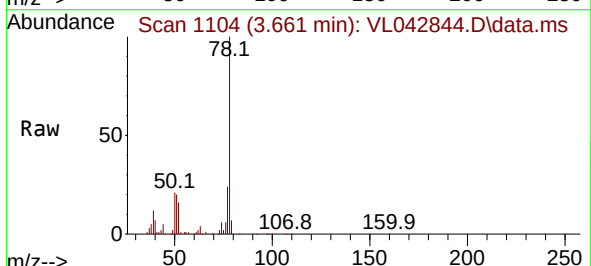
Tgt Ion: 78 Resp: 39137

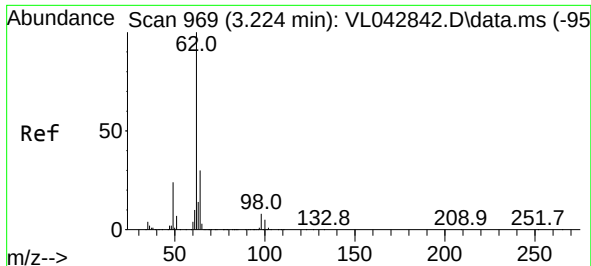
Ion Ratio Lower Upper

78 100

77 23.8 17.7 26.5

50 21.1 13.9 20.9#





#37

1,2-Dichloroethane

Concen: 1.031 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

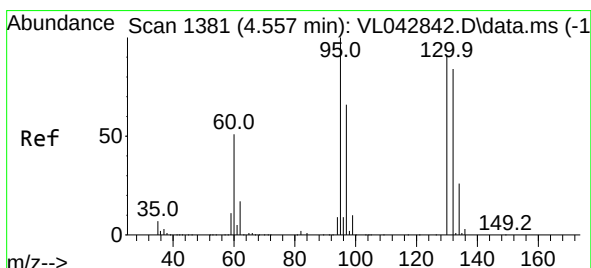
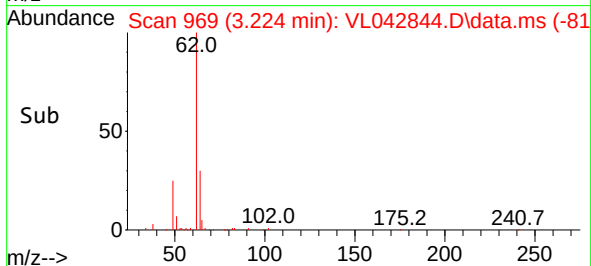
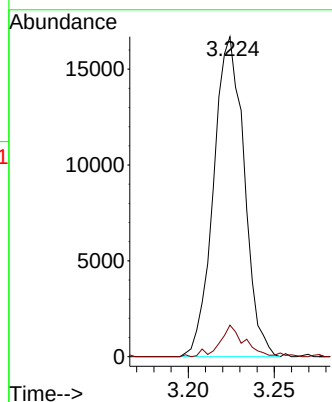
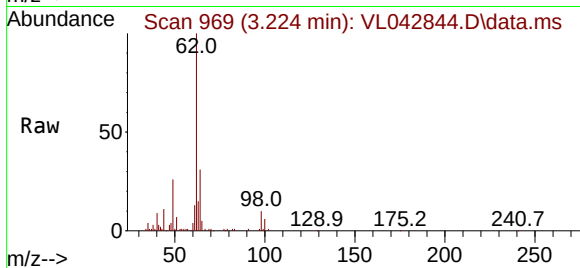
VSTDIC001

Tgt Ion: 62 Resp: 20645

Ion Ratio Lower Upper

62 100

98 8.4 5.9 8.9



#38

Trichloroethene

Concen: 1.024 ppbv

RT: 4.555 min Scan# 1380

Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Tgt Ion:130 Resp: 17921

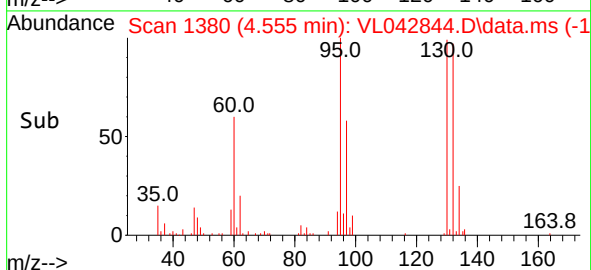
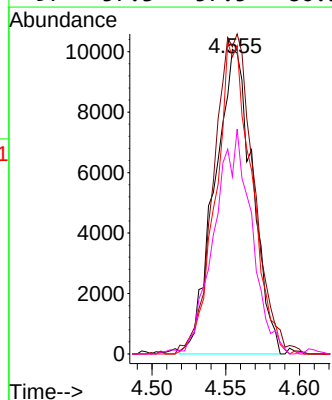
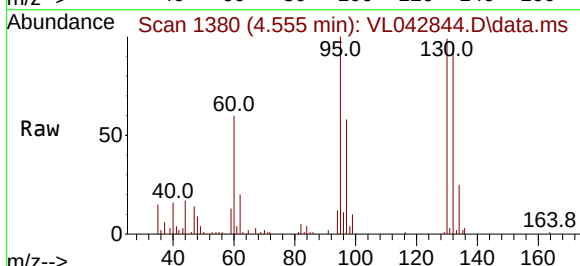
Ion Ratio Lower Upper

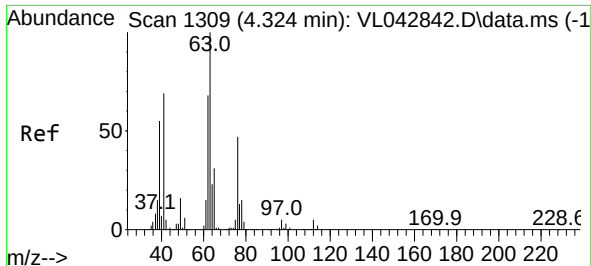
130 100

95 97.9 87.6 131.4

132 96.6 73.8 110.8

97 57.3 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 0.469 ppbv

RT: 4.325 min Scan# 1309

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

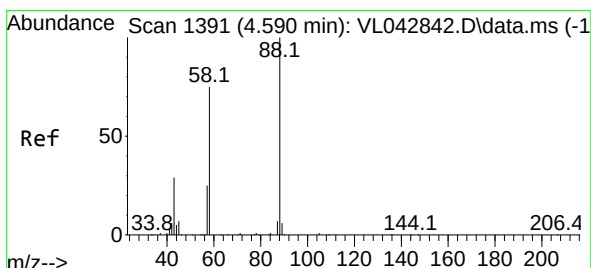
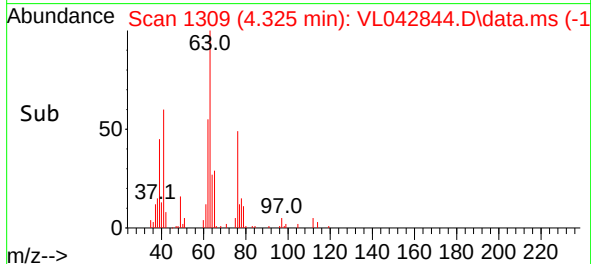
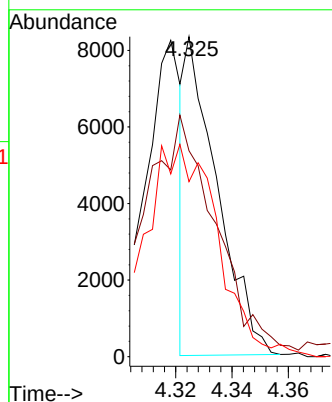
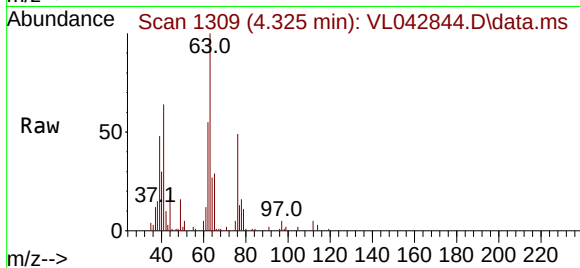
Tgt Ion: 63 Resp: 6572

Ion Ratio Lower Upper

63 100

41 61.3 55.0 82.4

62 51.1 54.4 81.6#



#40

1,4-Dioxane

Concen: 0.599 ppbv

RT: 4.603 min Scan# 1395

Delta R.T. 0.013 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Tgt Ion: 88 Resp: 3925

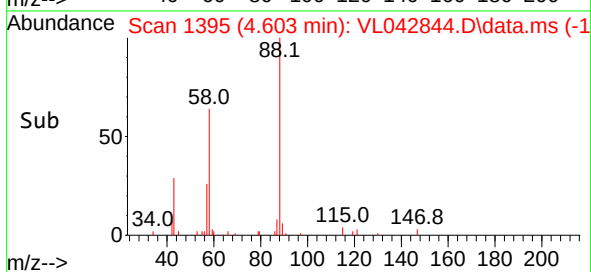
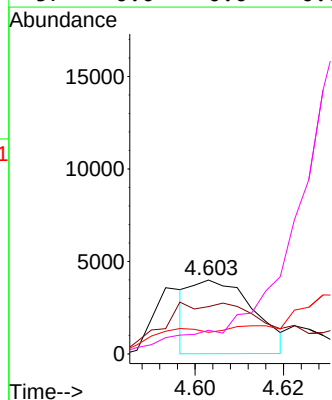
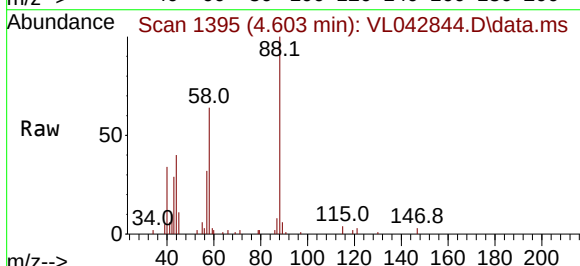
Ion Ratio Lower Upper

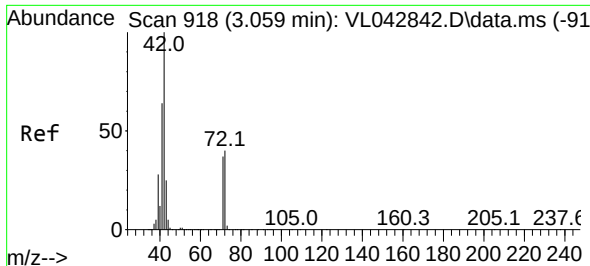
88 100

58 0.0 53.8 80.6#

43 0.0 22.8 34.2#

57 0.0 0.0 0.0

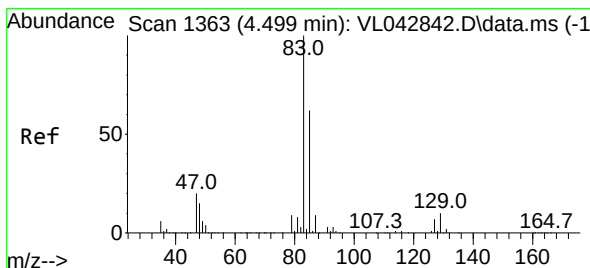
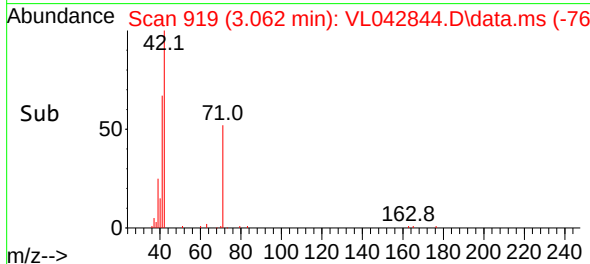
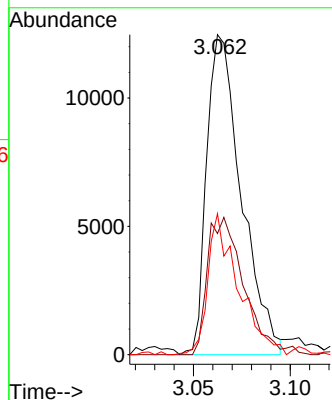
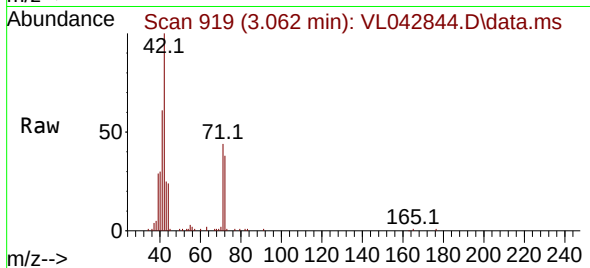




#41
Tetrahydrofuran
Concen: 1.032 ppbv
RT: 3.062 min Scan# 918
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

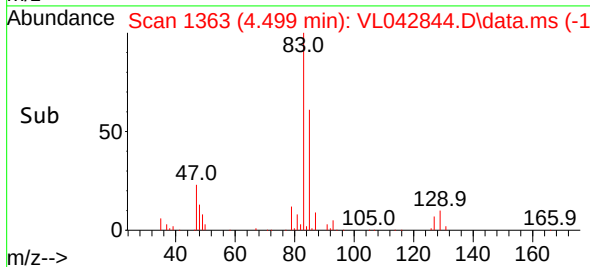
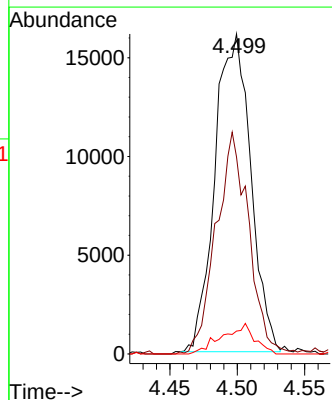
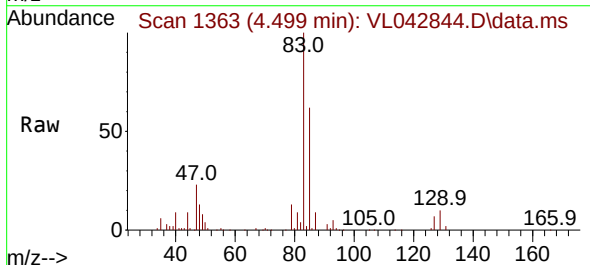
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

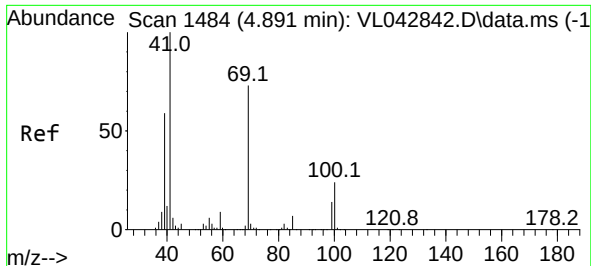
Tgt Ion: 42 Resp: 15552
Ion Ratio Lower Upper
42 100
72 45.4 32.6 48.8
71 40.1 30.0 45.0



#42
Bromodichloromethane
Concen: 0.995 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 83 Resp: 29683
Ion Ratio Lower Upper
83 100
85 61.3 49.8 74.8
127 7.2 5.8 8.6

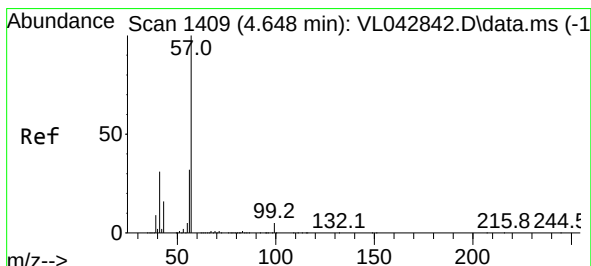
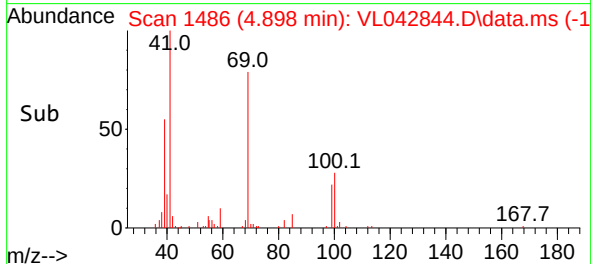
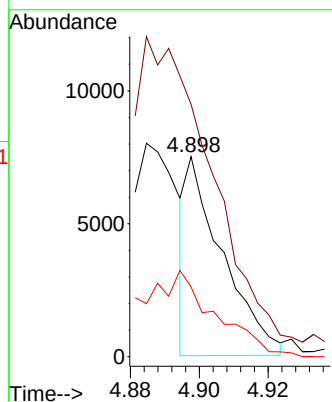
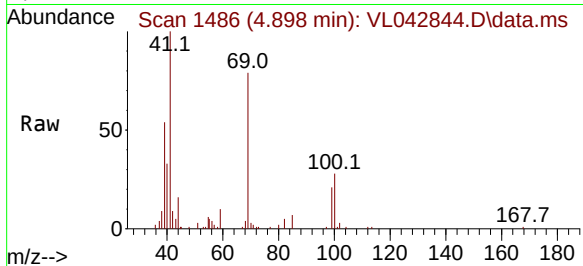




#43
Methyl Methacrylate
Concen: 0.349 ppbv
RT: 4.898 min Scan# 1486
Delta R.T. 0.007 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

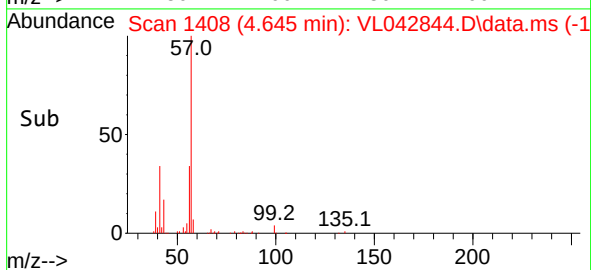
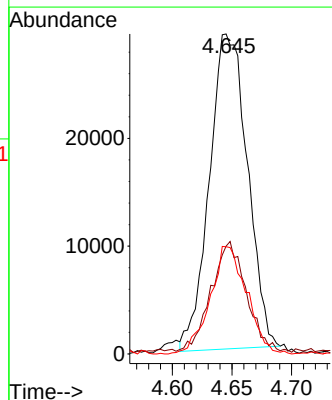
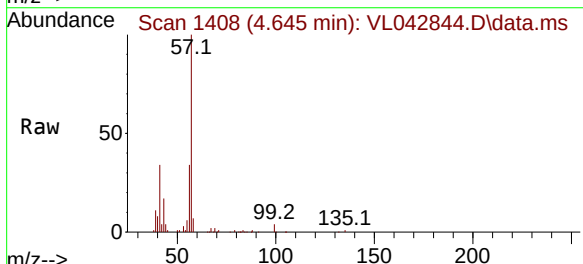
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

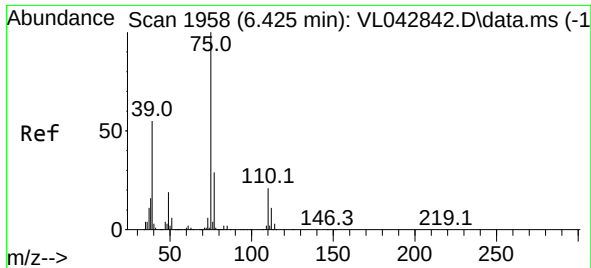
Tgt Ion: 69 Resp: 5494
Ion Ratio Lower Upper
69 100
41 0.0 114.6 172.0#
100 102.7 30.2 45.4#



#44
2,2,4-Trimethylpentane
Concen: 1.009 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 57 Resp: 64930
Ion Ratio Lower Upper
57 100
41 34.6 24.8 37.2
56 33.2 25.5 38.3

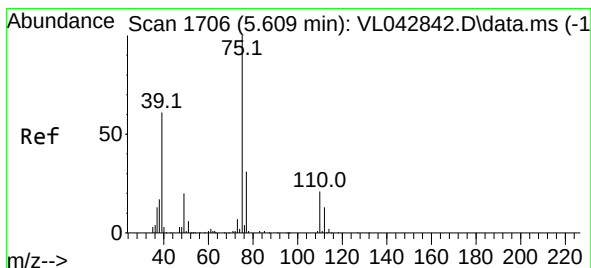
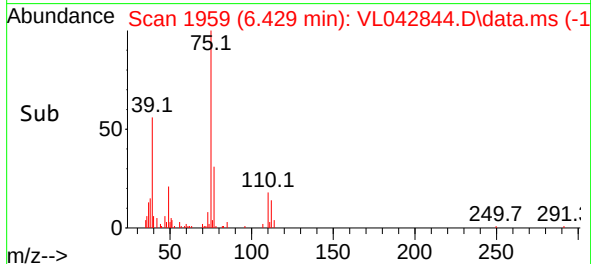
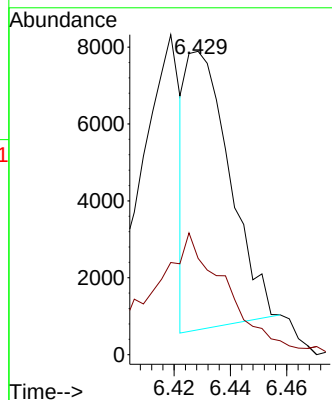
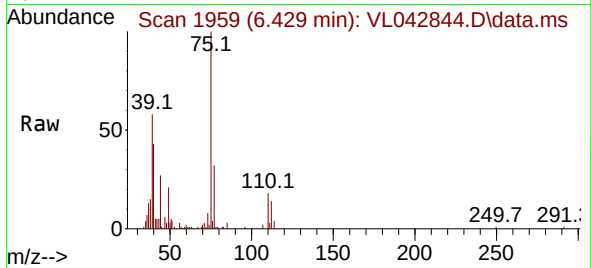




#45
 t-1,3-Dichloropropene
 Concen: 0.434 ppbv
 RT: 6.429 min Scan# 1958
 Delta R.T. 0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

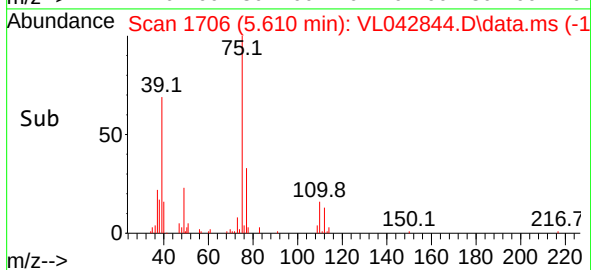
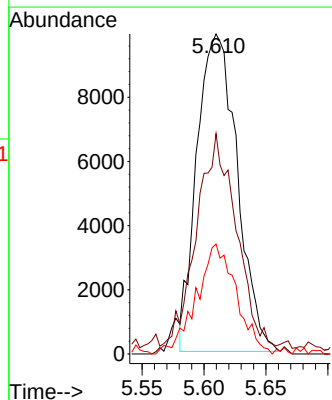
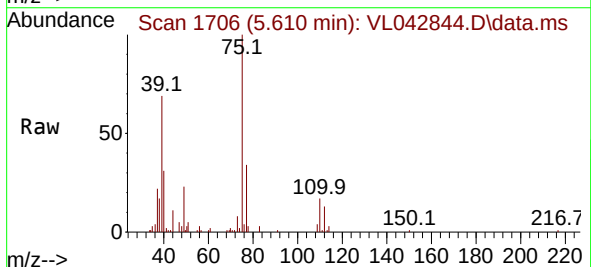
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

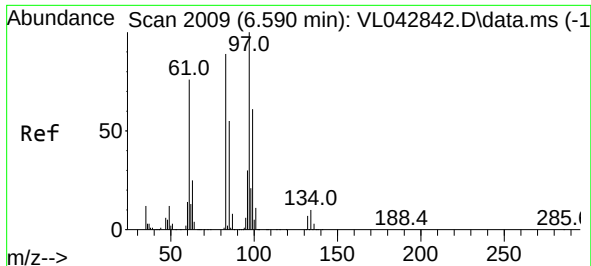
Tgt Ion: 75 Resp: 7736
 Ion Ratio Lower Upper
 75 100
 77 31.8 23.8 35.6



#46
 cis-1,3-Dichloropropene
 Concen: 0.999 ppbv
 RT: 5.610 min Scan# 1706
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion: 75 Resp: 22372
 Ion Ratio Lower Upper
 75 100
 39 66.4 48.9 73.3
 77 33.8 24.9 37.3

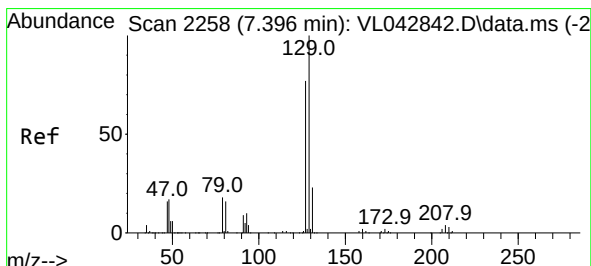
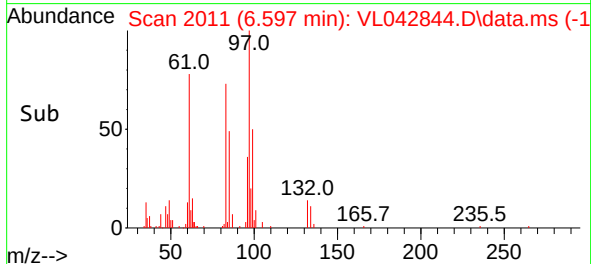
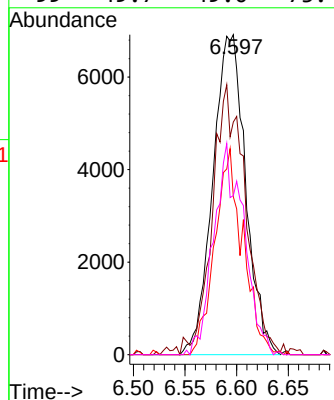
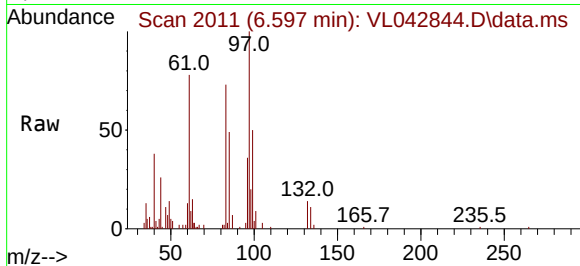




#47
 1,1,2-Trichloroethane
 Concen: 1.032 ppbv
 RT: 6.597 min Scan# 2009
 Delta R.T. 0.007 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

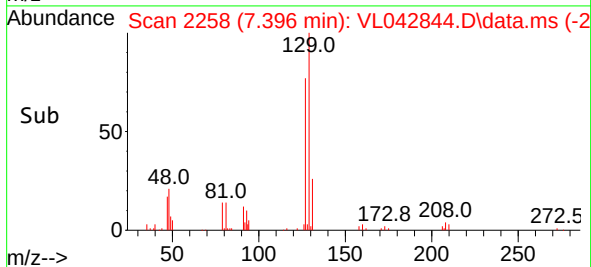
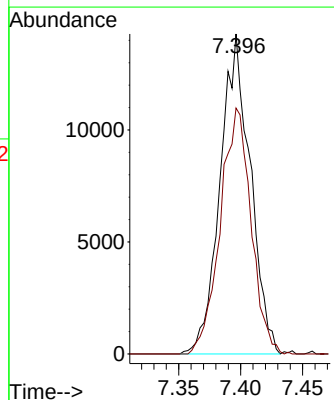
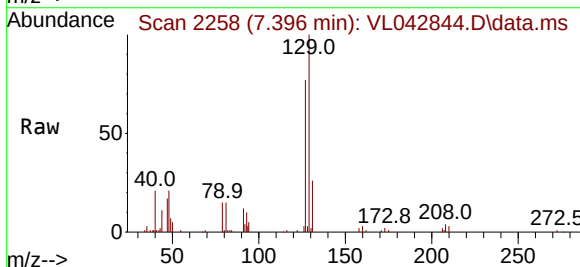
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

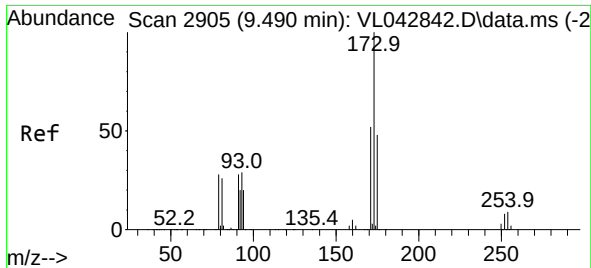
Tgt Ion:	97	Resp:	15295
Ion	Ratio	Lower	Upper
97	100		
83	72.7	71.0	106.4
85	49.4	43.6	65.4
99	49.7	49.0	73.4



#48
 Dibromochloromethane
 Concen: 1.009 ppbv
 RT: 7.396 min Scan# 2258
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion:	129	Resp:	24214
Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.4	118.2





#49

Bromoform

Concen: 1.040 ppbv

RT: 9.490 min Scan# 2905

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

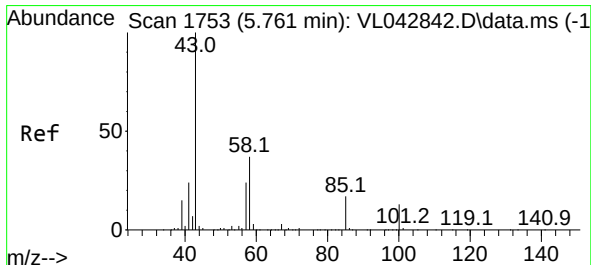
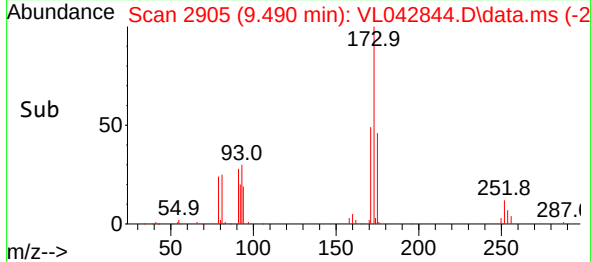
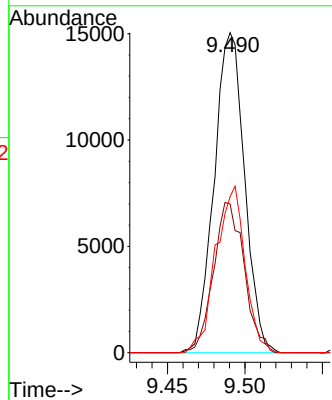
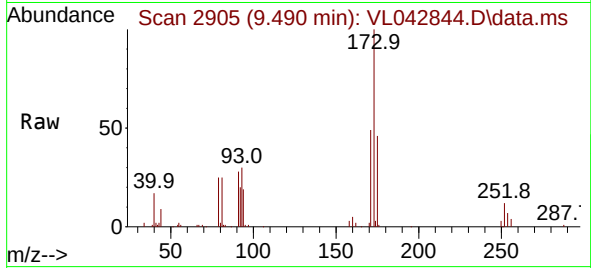
Tgt Ion:173 Resp: 20579

Ion Ratio Lower Upper

173 100

175 47.3 39.2 58.8

171 50.3 41.3 61.9



#50

4-Methyl-2-Pentanone

Concen: 1.001 ppbv

RT: 5.768 min Scan# 1755

Delta R.T. 0.007 min

Lab File: VL042844.D

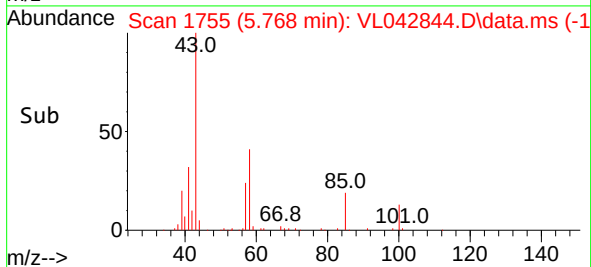
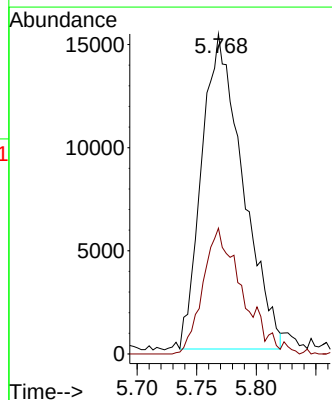
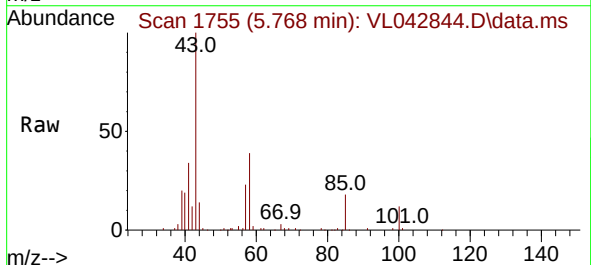
Acq: 13 Aug 2025 09:41

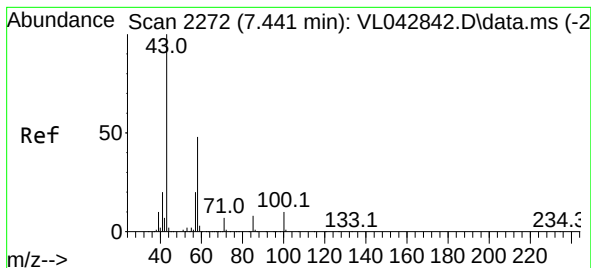
Tgt Ion: 43 Resp: 36710

Ion Ratio Lower Upper

43 100

58 38.3 29.8 44.8





#51

2-Hexanone

Concen: 1.026 ppbv

RT: 7.451 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

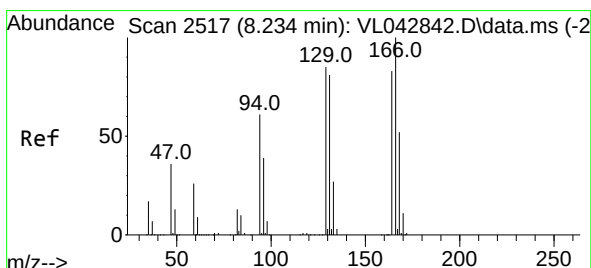
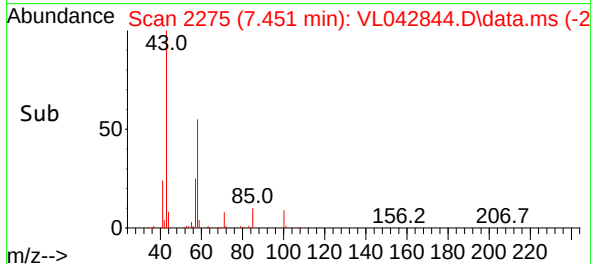
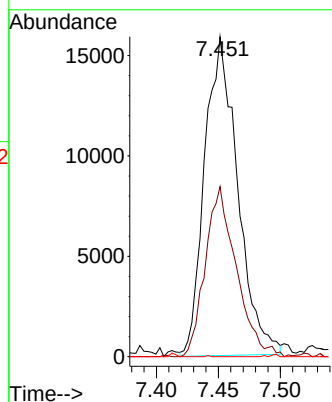
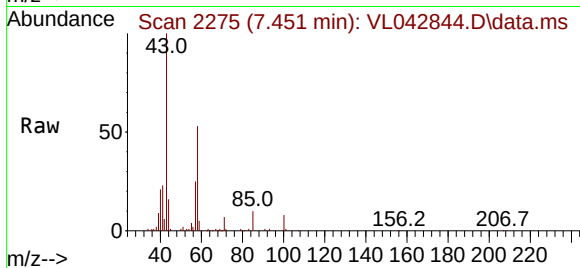
Tgt Ion: 43 Resp: 29487

Ion Ratio Lower Upper

43 100

58 50.6 41.0 61.6

98 0.2 0.1 0.1#



#52

Tetrachloroethene

Concen: 0.960 ppbv

RT: 8.235 min Scan# 2517

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Tgt Ion: 164 Resp: 13322

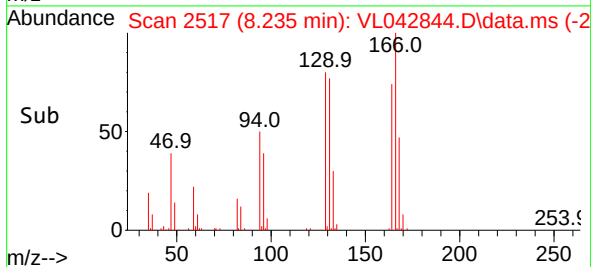
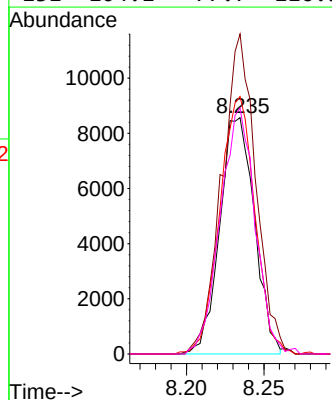
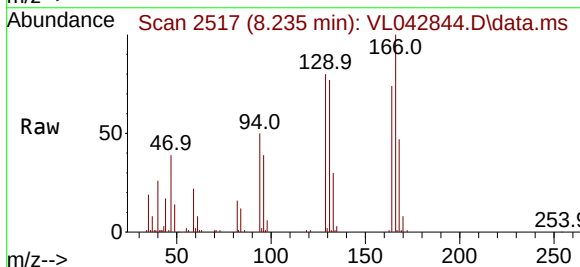
Ion Ratio Lower Upper

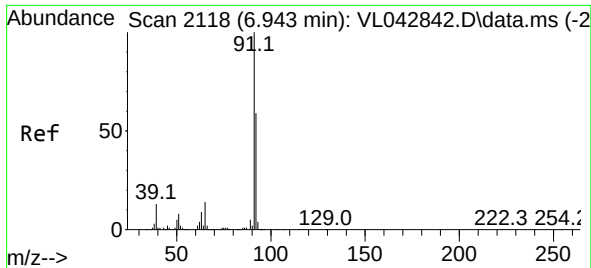
164 100

166 135.4 96.5 144.7

129 110.5 81.8 122.6

131 104.1 77.7 116.5

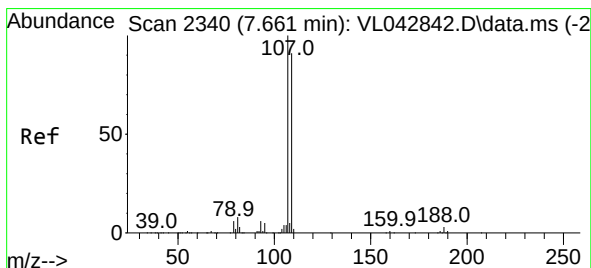
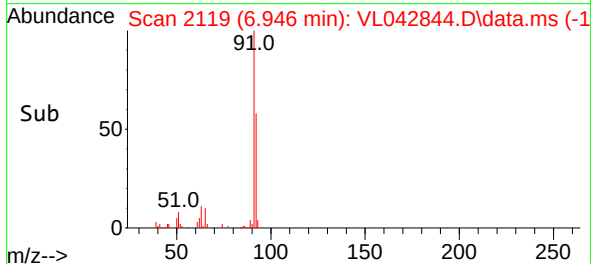
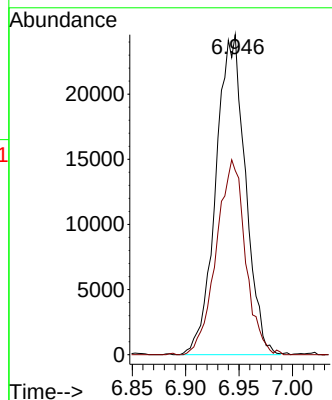
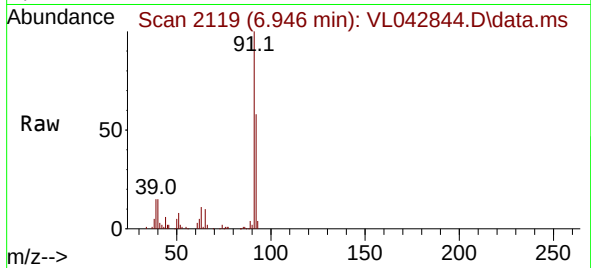




#53
Toluene
Concen: 1.036 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

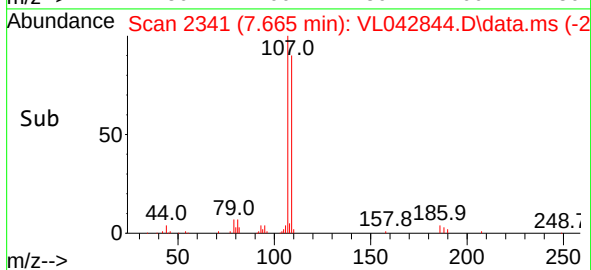
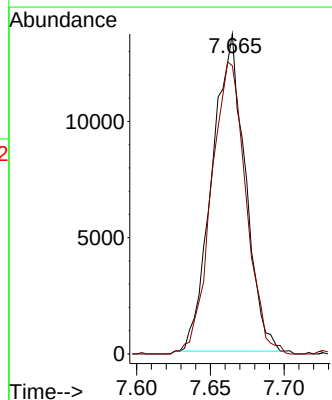
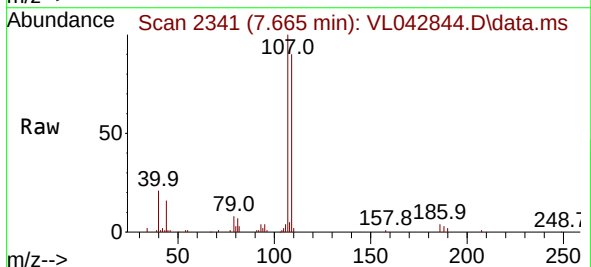
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

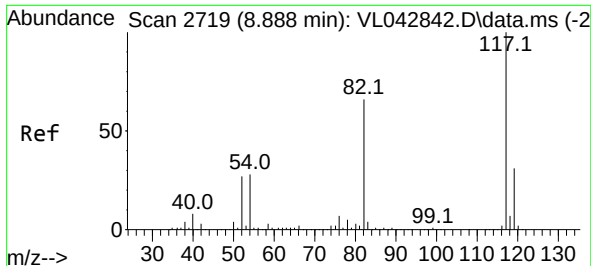
Tgt Ion: 91 Resp: 47256
Ion Ratio Lower Upper
91 100
92 60.1 47.8 71.6



#54
1,2-Dibromoethane
Concen: 0.982 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 107 Resp: 21280
Ion Ratio Lower Upper
107 100
109 89.9 72.5 108.7

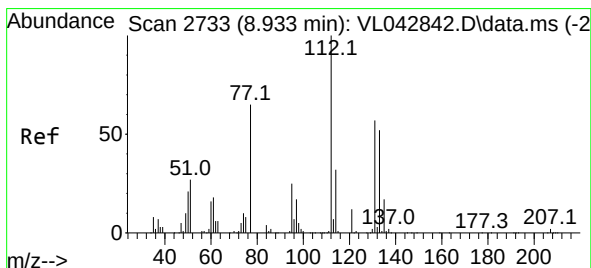
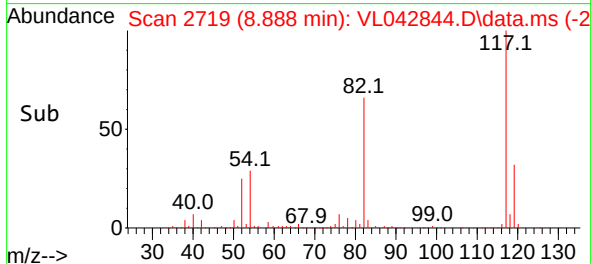
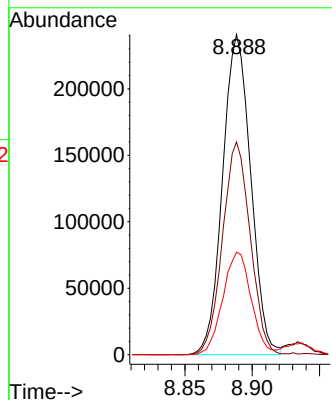
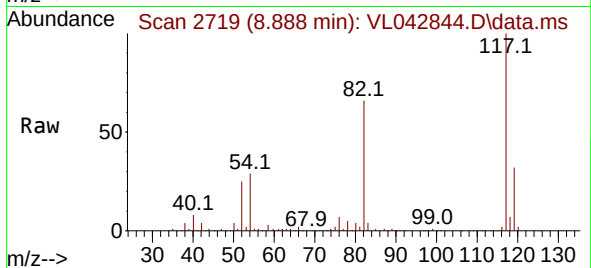




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

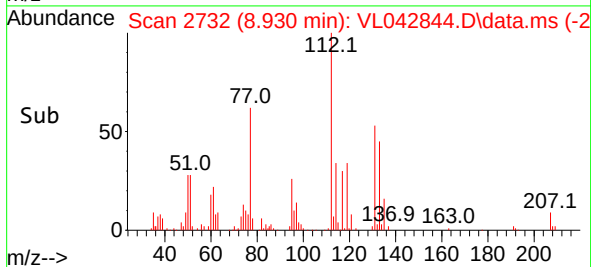
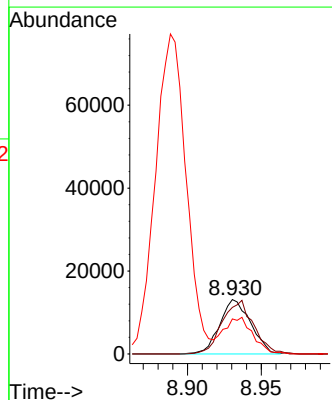
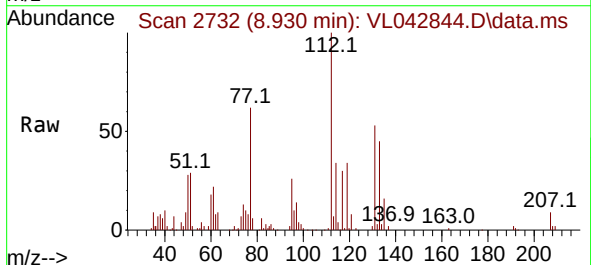
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

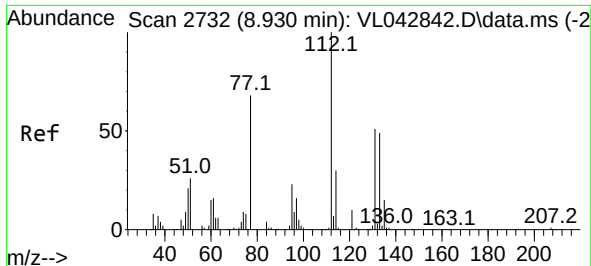
Tgt Ion:117 Resp: 349577
Ion Ratio Lower Upper
117 100
82 65.9 54.6 81.8
119 32.9 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 1.061 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:131 Resp: 19176
Ion Ratio Lower Upper
131 100
133 99.8 77.4 116.0
119 59.0 51.2 76.8

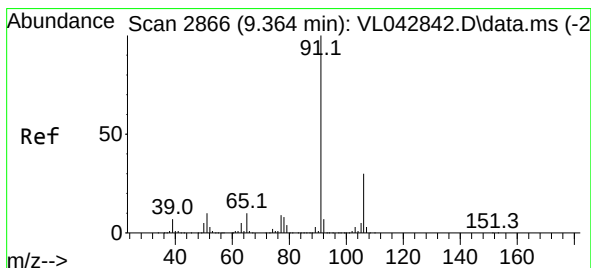
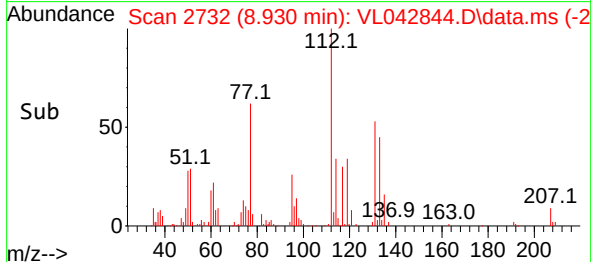
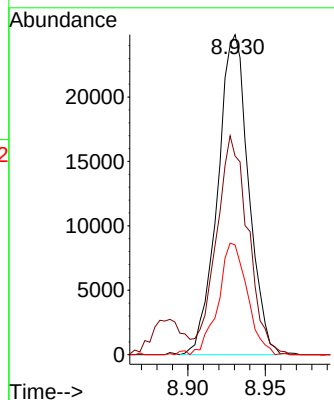
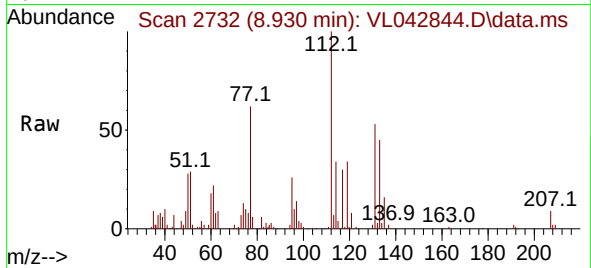




#57
Chlorobenzene
Concen: 1.041 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

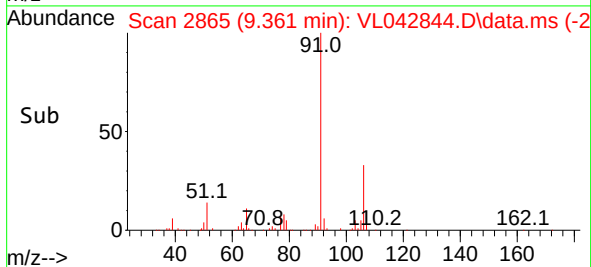
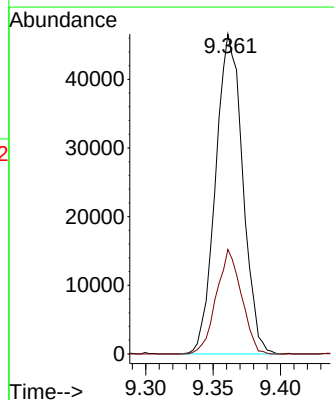
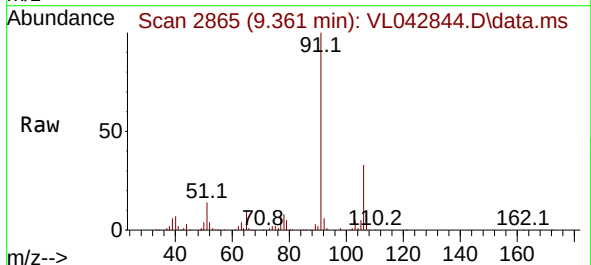
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

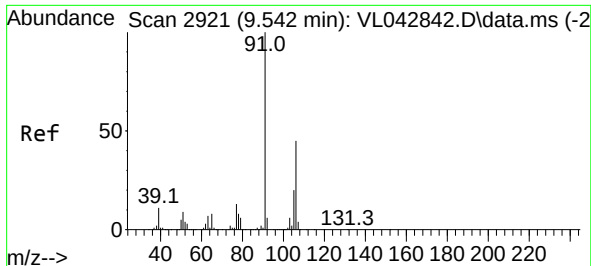
Tgt Ion:112 Resp: 34617
Ion Ratio Lower Upper
112 100
77 61.0 55.5 83.3
114 34.0 27.2 33.2#



#58
Ethyl Benzene
Concen: 1.057 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 91 Resp: 65223
Ion Ratio Lower Upper
91 100
106 32.7 23.9 35.9





#59

m/p-Xylene

Concen: 1.108 ppbv

RT: 9.539 min Scan# 2921

Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

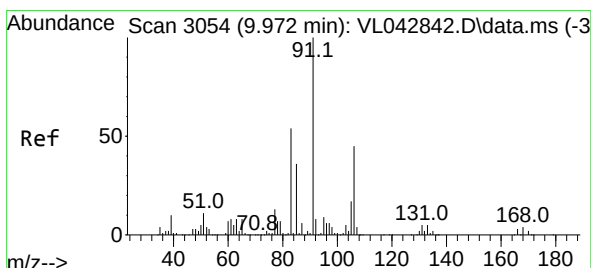
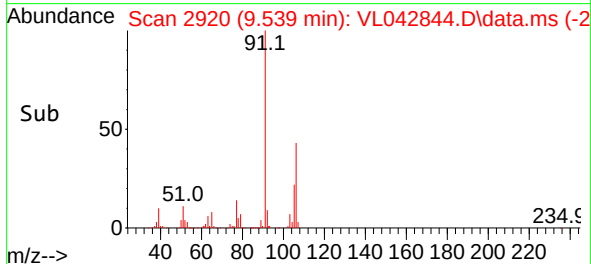
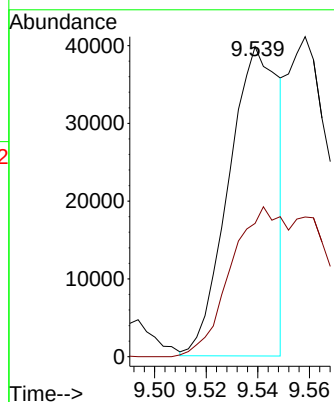
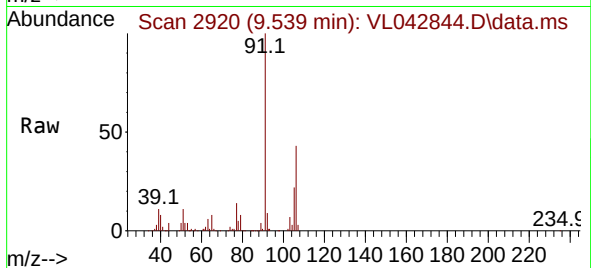
VSTDIC001

Tgt Ion: 91 Resp: 53658

Ion Ratio Lower Upper

91 100

106 88.3 0.0 0.0#



#60

o-Xylene

Concen: 1.058 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.003 min

Lab File: VL042844.D

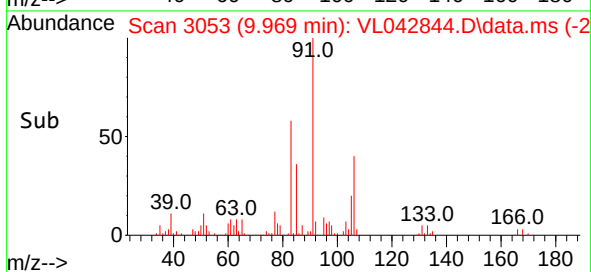
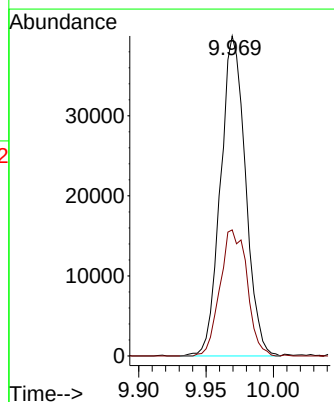
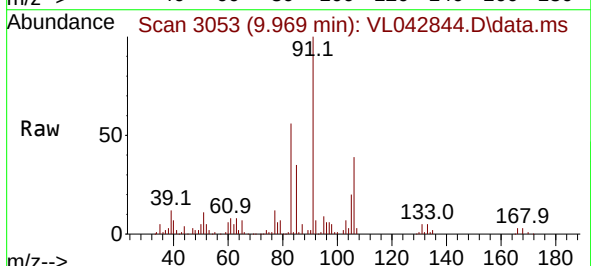
Acq: 13 Aug 2025 09:41

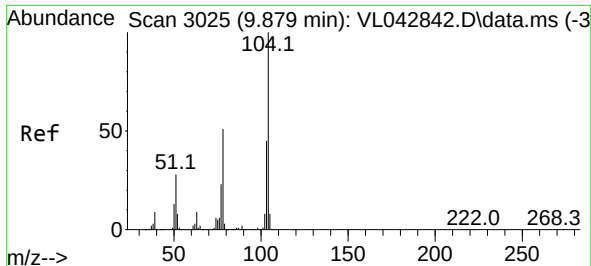
Tgt Ion: 91 Resp: 51445

Ion Ratio Lower Upper

91 100

106 42.8 21.8 65.4

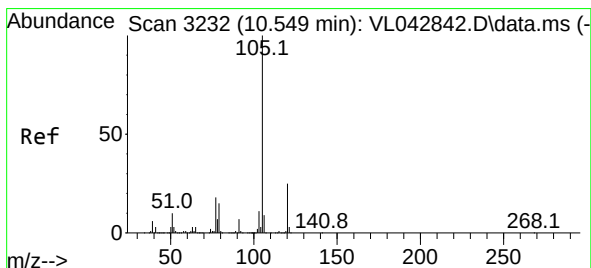
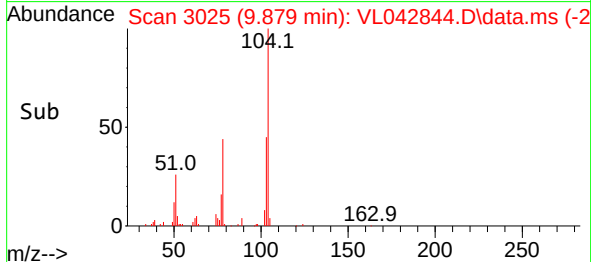
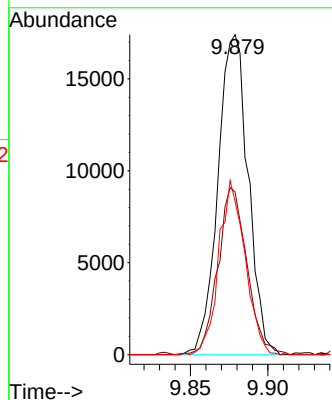
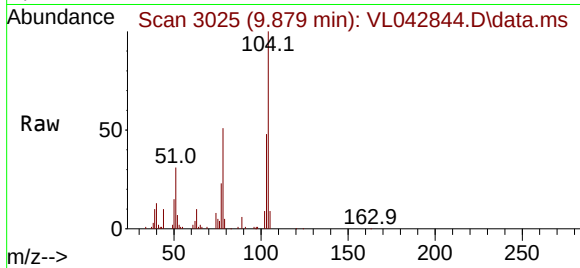




#61
Styrene
Concen: 1.038 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

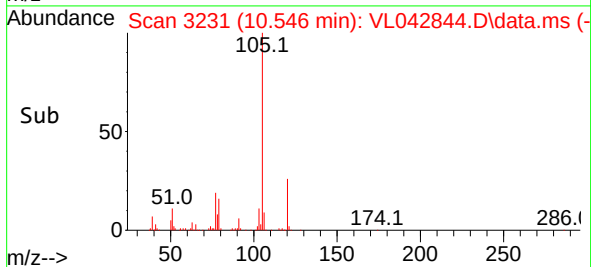
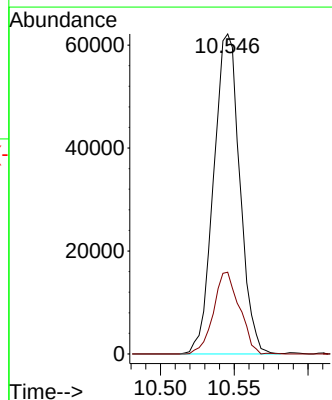
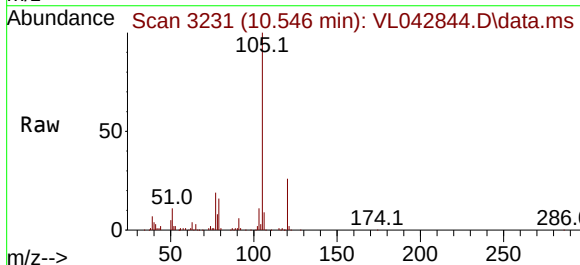
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

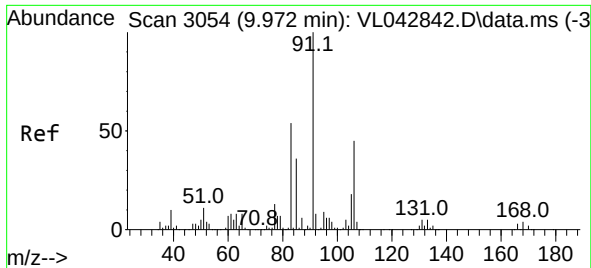
Tgt Ion:104 Resp: 23660
Ion Ratio Lower Upper
104 100
78 50.4 40.6 61.0
103 47.3 37.7 56.5



#62
Isopropylbenzene
Concen: 1.079 ppbv
RT: 10.546 min Scan# 3231
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:105 Resp: 76708
Ion Ratio Lower Upper
105 100
120 25.4 20.6 30.8

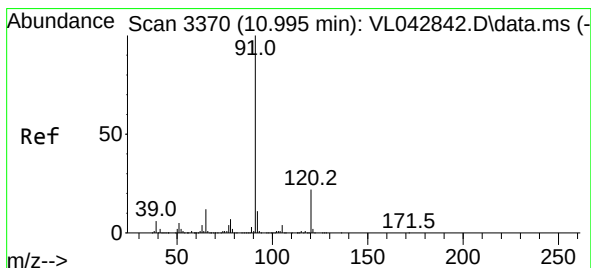
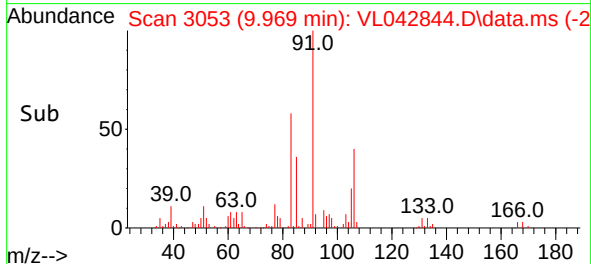
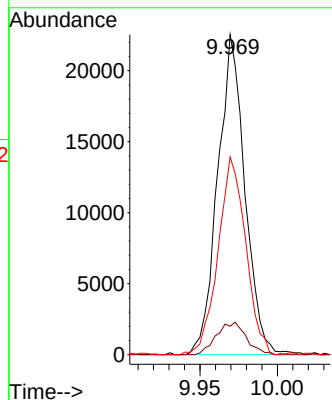
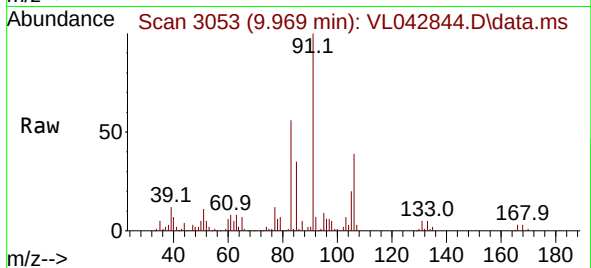




#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.032 ppbv
 RT: 9.969 min Scan# 3053
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

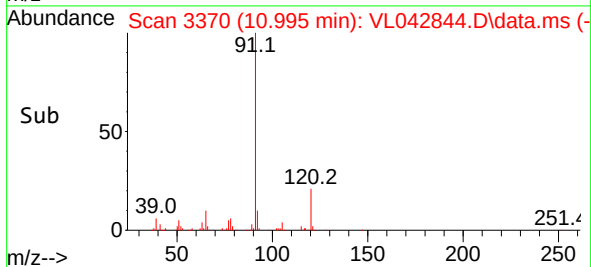
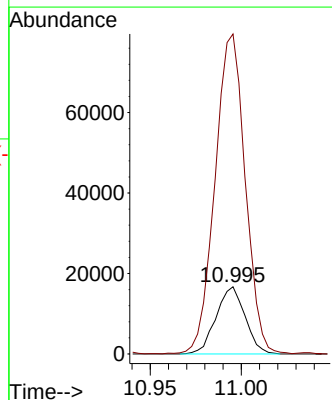
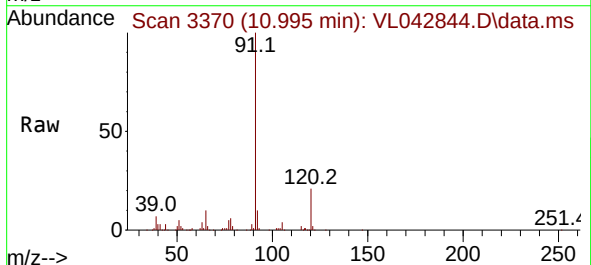
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

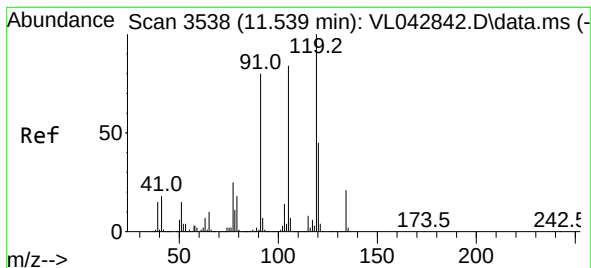
Tgt Ion: 83 Resp: 27410
 Ion Ratio Lower Upper
 83 100
 131 11.2 4.8 14.3
 85 63.5 32.3 96.8



#64
 n-propylbenzene
 Concen: 1.018 ppbv
 RT: 10.995 min Scan# 3370
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion:120 Resp: 18462
 Ion Ratio Lower Upper
 120 100
 91 496.0 375.8 563.6

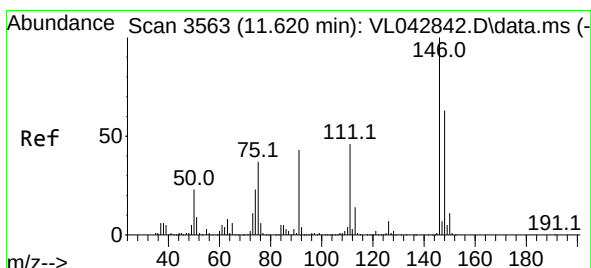
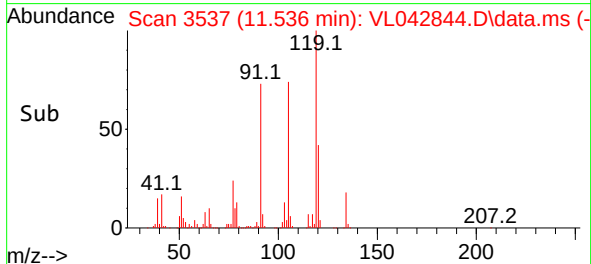
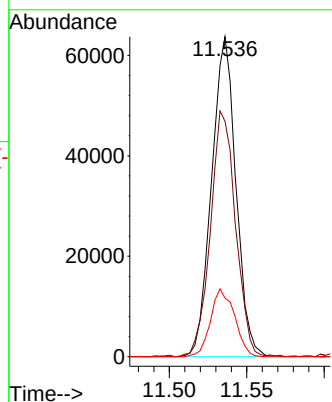
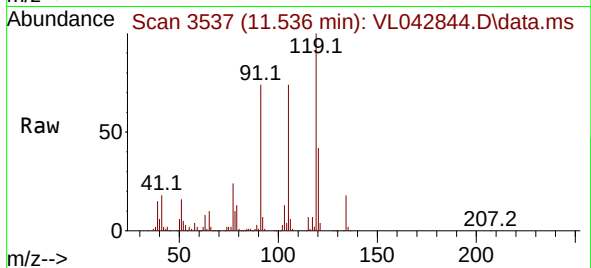




#65
tert-Butylbenzene
Concen: 1.111 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

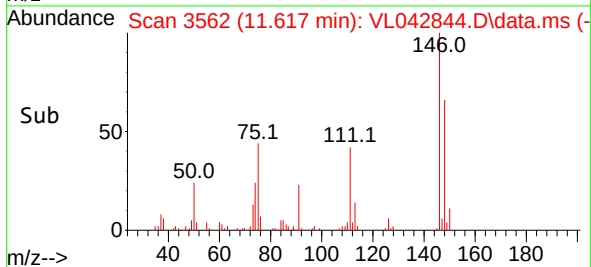
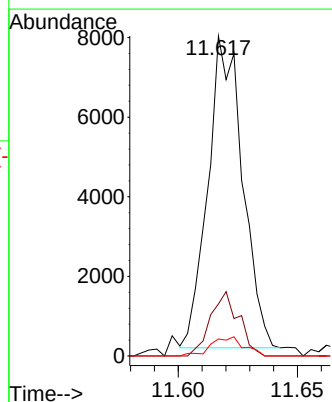
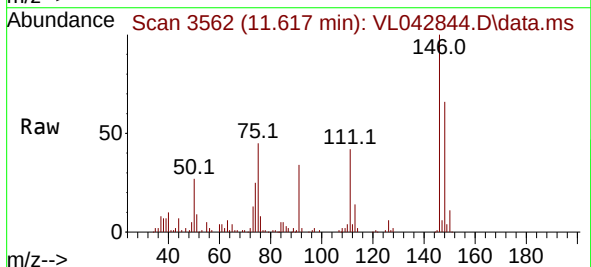
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

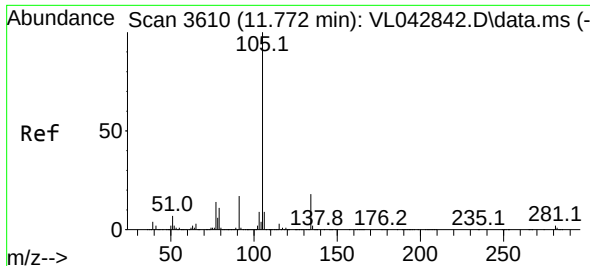
Tgt Ion:119 Resp: 69617
Ion Ratio Lower Upper
119 100
91 79.3 63.9 95.9
134 20.9 17.0 25.4



#66
Benzyl Chloride
Concen: 0.993 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 91 Resp: 7900
Ion Ratio Lower Upper
91 100
126 16.9 14.2 21.4
128 5.8 5.0 7.6

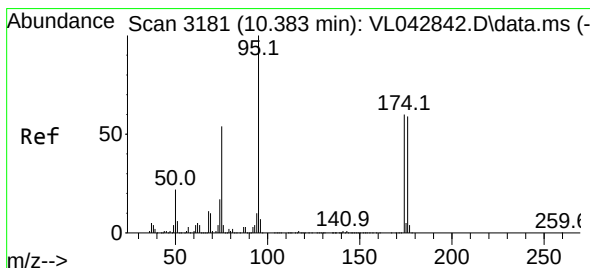
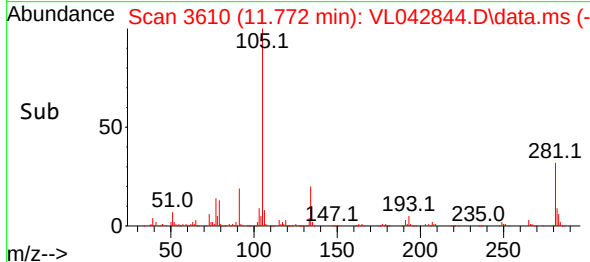
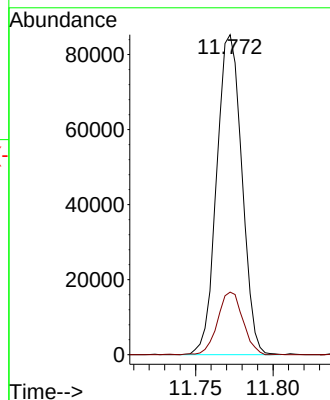
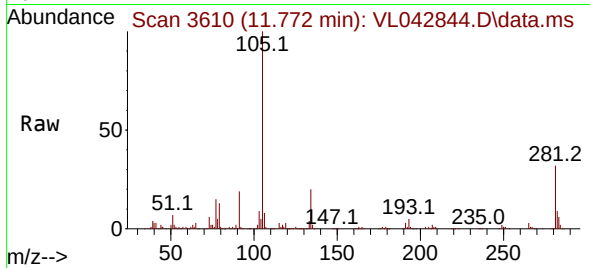




#67
 sec-Butylbenzene
 Concen: 1.095 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

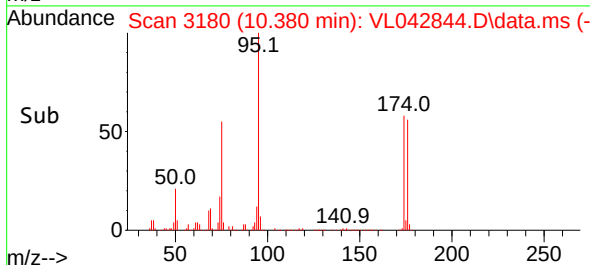
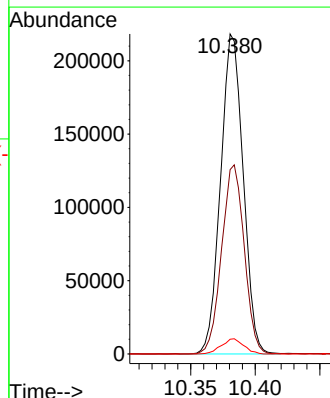
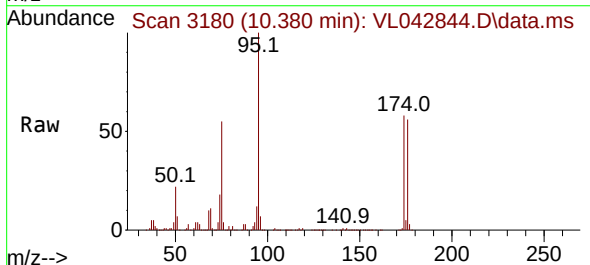
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

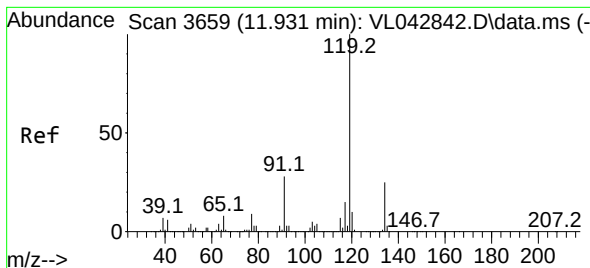
Tgt Ion:105 Resp: 96288
 Ion Ratio Lower Upper
 105 100
 134 19.7 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.135 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion: 95 Resp: 265708
 Ion Ratio Lower Upper
 95 100
 174 59.1 48.4 72.6
 175 4.7 3.8 5.8

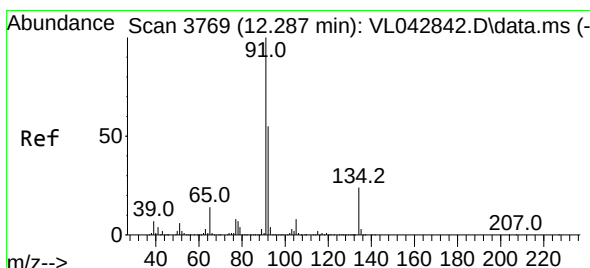
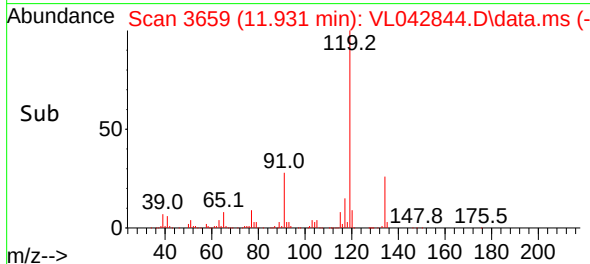
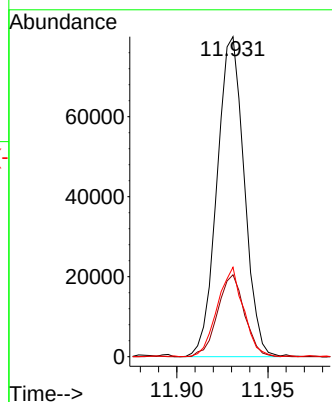
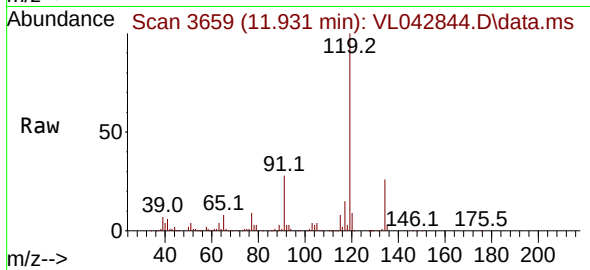




#69
 p-Isopropyltoluene
 Concen: 1.098 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

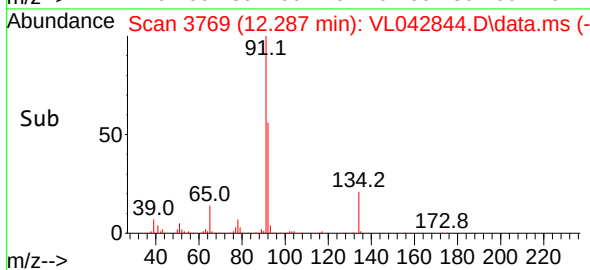
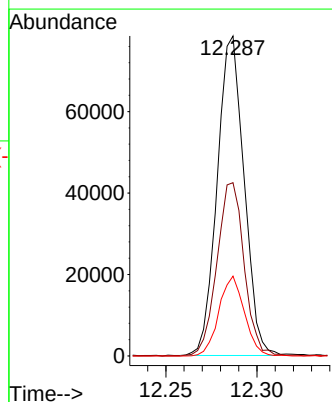
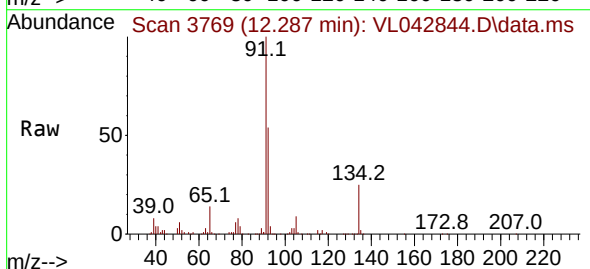
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

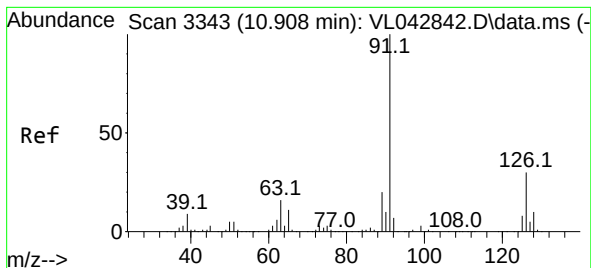
Tgt Ion: 119 Resp: 82934
 Ion Ratio Lower Upper
 119 100
 134 25.3 20.6 30.8
 91 27.2 22.6 34.0



#70
 n-Butylbenzene
 Concen: 1.075 ppbv
 RT: 12.287 min Scan# 3769
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion: 91 Resp: 80511
 Ion Ratio Lower Upper
 91 100
 92 55.2 44.6 66.8
 134 23.7 19.0 28.4

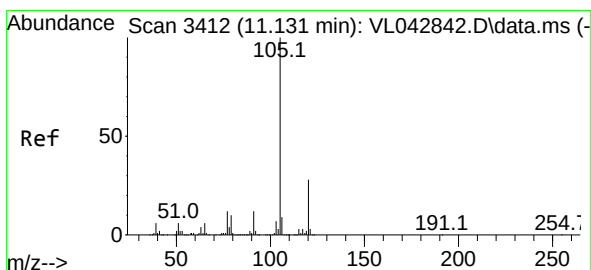
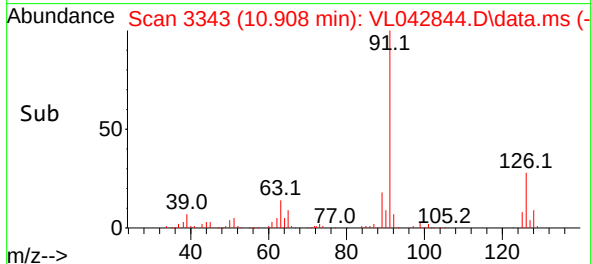
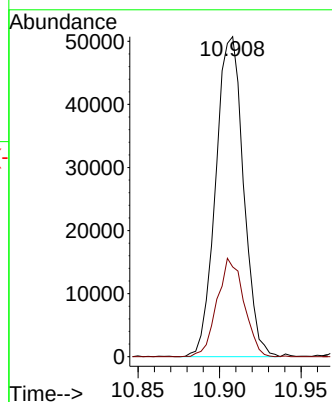
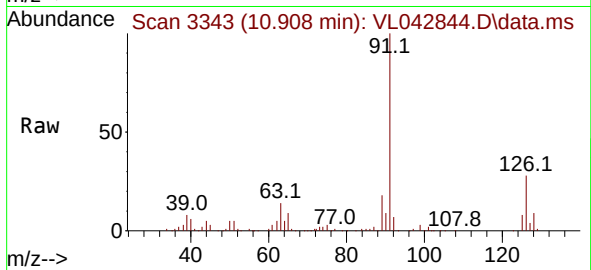




#71
2-Chlorotoluene
Concen: 1.089 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

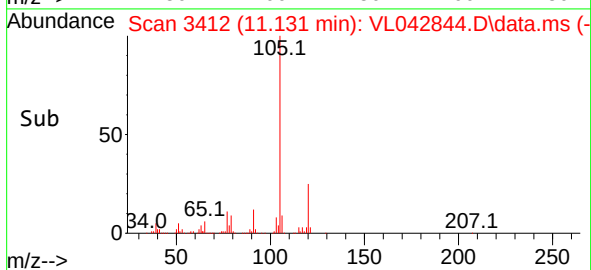
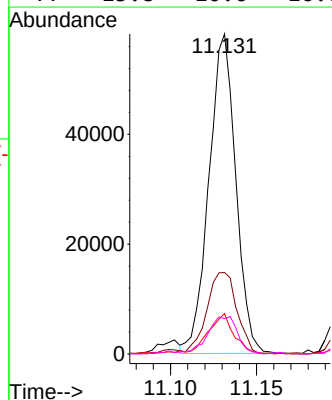
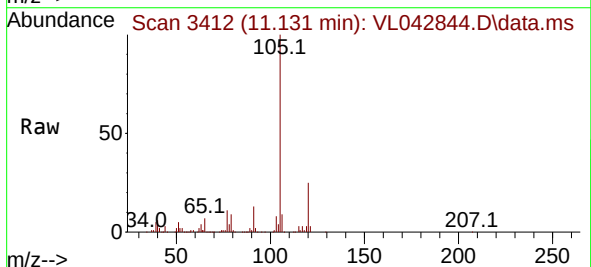
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

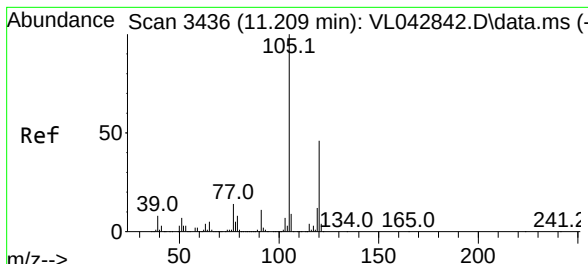
Tgt Ion: 91 Resp: 60086
Ion Ratio Lower Upper
91 100
126 29.7 12.0 47.8



#72
4-Ethyltoluene
Concen: 1.071 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 105 Resp: 63147
Ion Ratio Lower Upper
105 100
120 29.9 23.4 35.2
91 13.0 9.8 14.6
77 13.8 10.6 16.0

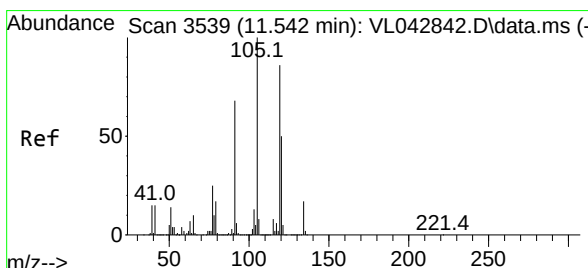
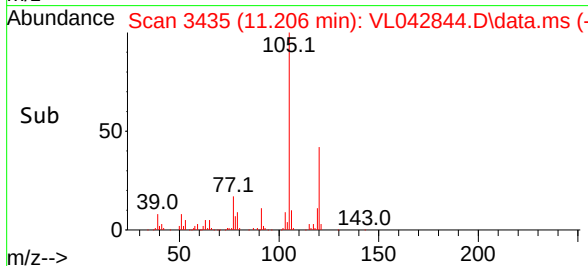
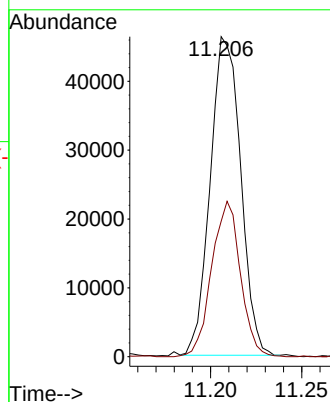
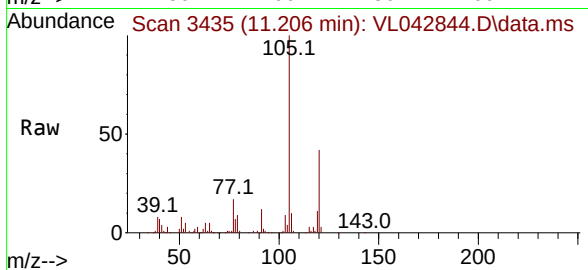




#73
 1,3,5-Trimethylbenzene
 Concen: 1.070 ppbv
 RT: 11.206 min Scan# 3436
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

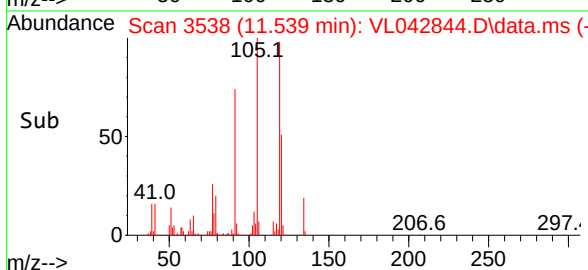
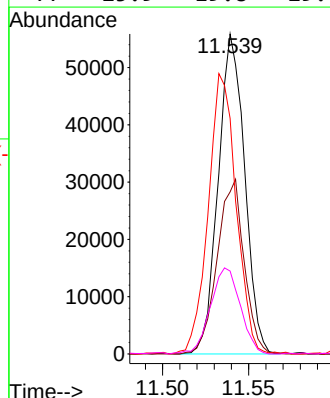
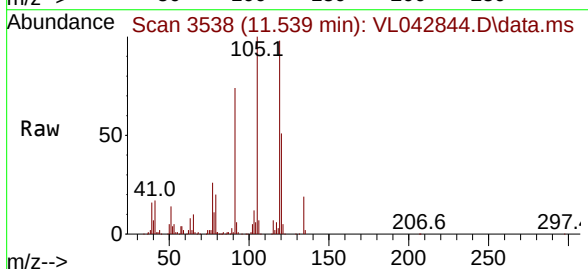
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

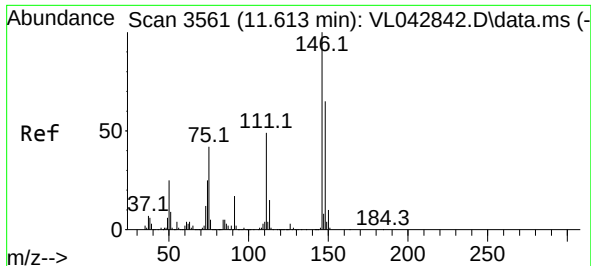
Tgt Ion:105 Resp: 53676
 Ion Ratio Lower Upper
 105 100
 120 42.3 36.6 54.8



#74
 1,2,4-Trimethylbenzene
 Concen: 1.083 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion:105 Resp: 59633
 Ion Ratio Lower Upper
 105 100
 120 50.7 39.8 59.6
 91 73.3 54.2 81.4
 77 25.9 19.8 29.6

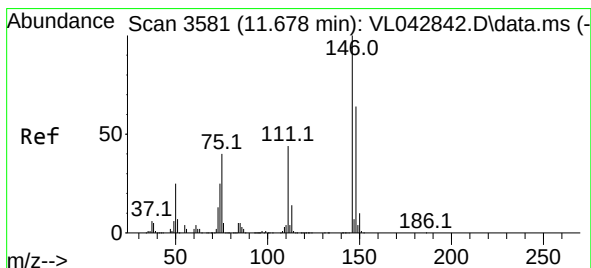
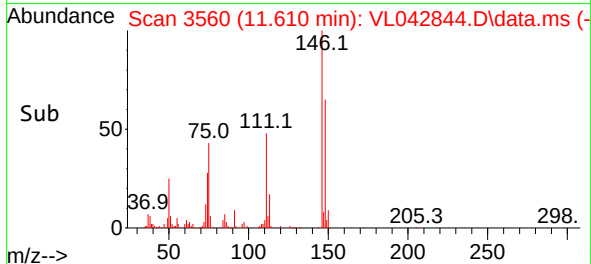
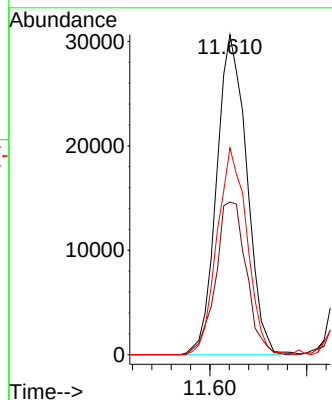
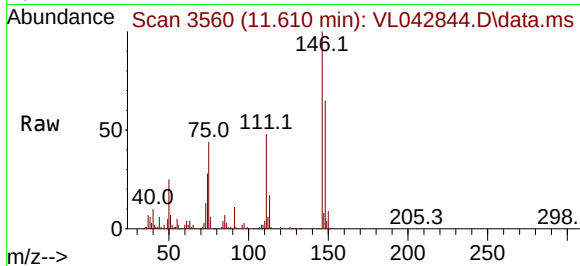




#75
1,3-Dichlorobenzene
Concen: 1.057 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

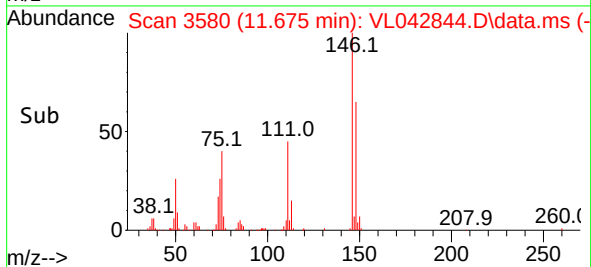
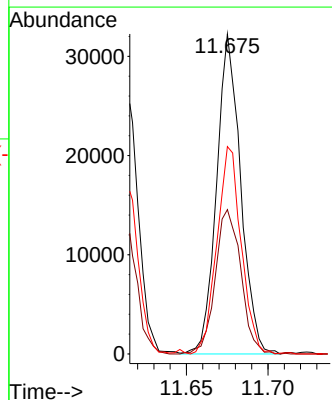
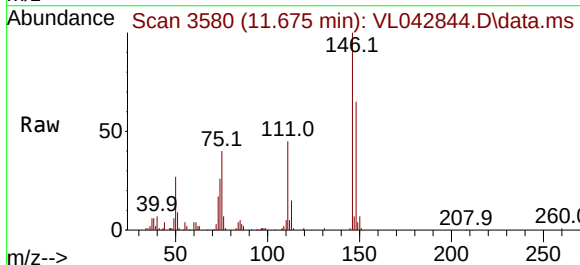
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

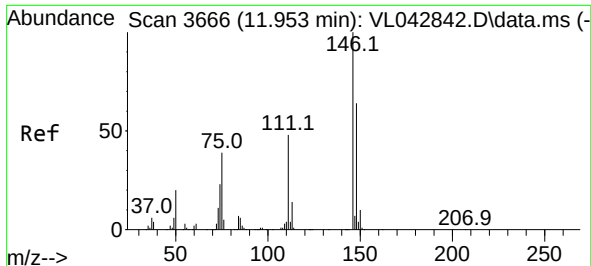
Tgt Ion:146 Resp: 33061
Ion Ratio Lower Upper
146 100
111 48.6 23.9 71.7
148 64.1 31.4 94.0



#76
1,4-Dichlorobenzene
Concen: 1.045 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:146 Resp: 33064
Ion Ratio Lower Upper
146 100
111 48.1 22.7 68.1
148 66.0 31.8 95.3

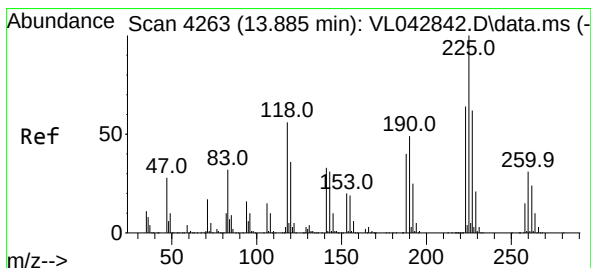
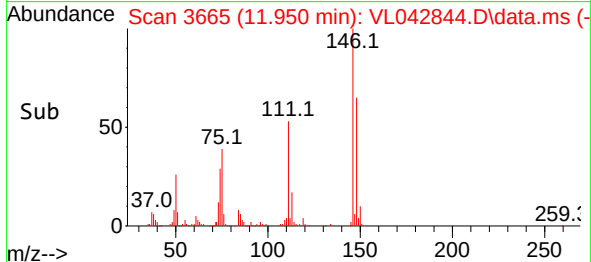
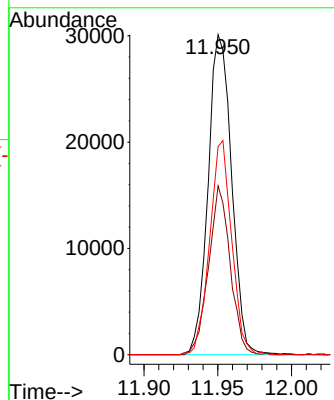
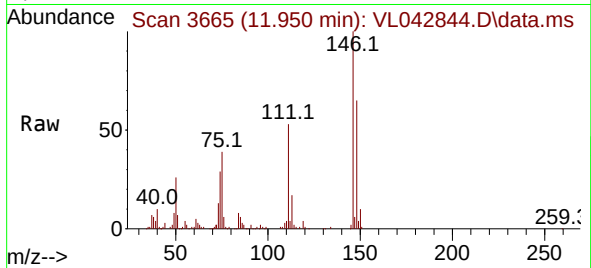




#77
 1,2-Dichlorobenzene
 Concen: 1.090 ppbv
 RT: 11.950 min Scan# 3665
 Delta R.T. -0.003 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

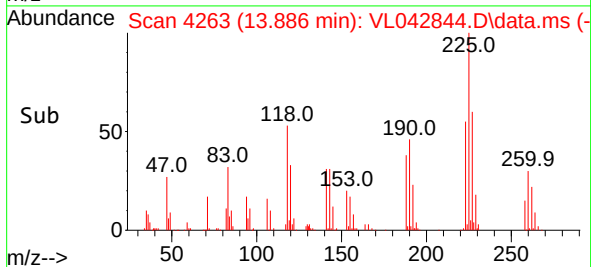
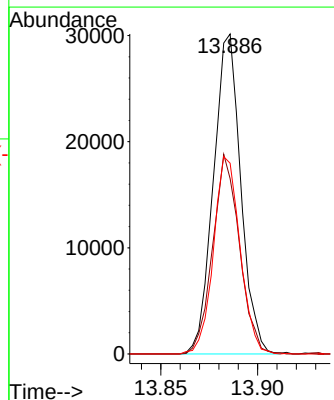
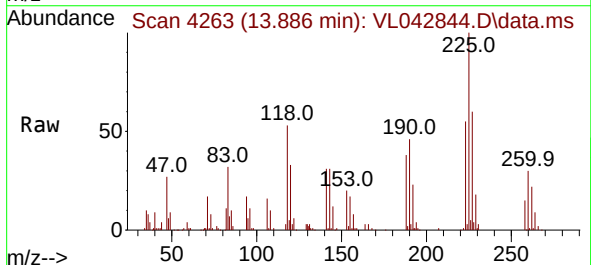
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

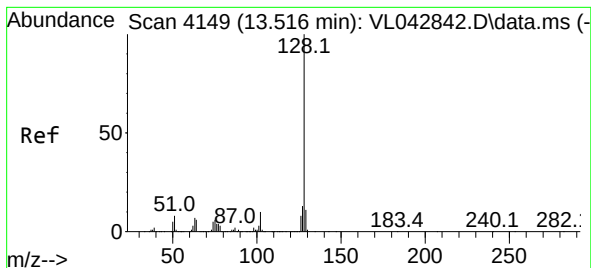
Tgt Ion:146 Resp: 33404
 Ion Ratio Lower Upper
 146 100
 111 48.4 24.6 74.0
 148 62.7 32.0 96.0



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.177 ppbv
 RT: 13.886 min Scan# 4263
 Delta R.T. 0.000 min
 Lab File: VL042844.D
 Acq: 13 Aug 2025 09:41

Tgt Ion:225 Resp: 29555
 Ion Ratio Lower Upper
 225 100
 223 61.2 51.4 77.2
 227 60.0 51.9 77.9





#79

Naphthalene

Concen: 1.169 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

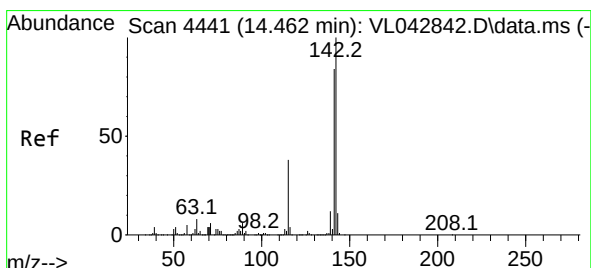
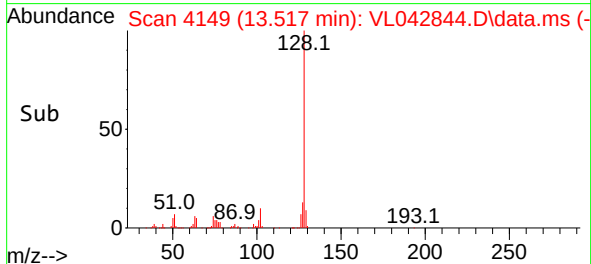
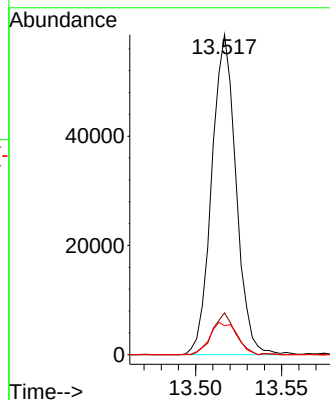
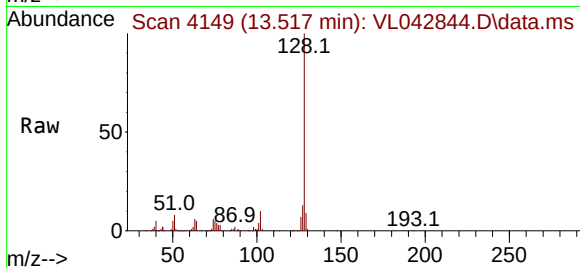
Tgt Ion:128 Resp: 57580

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

129 9.1 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 1.045 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

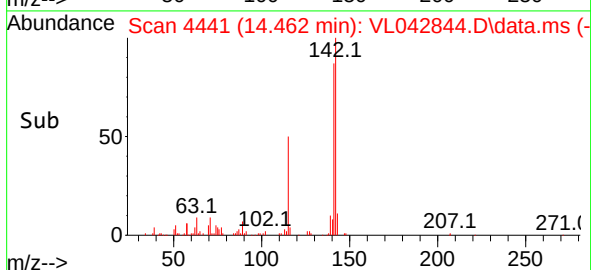
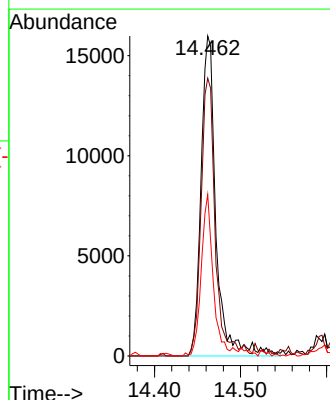
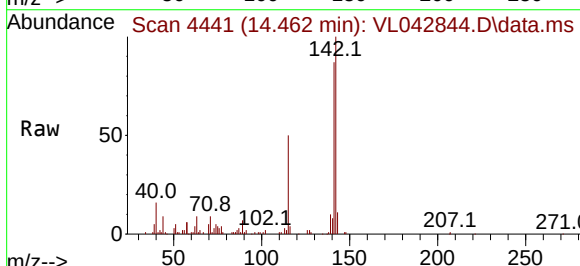
Tgt Ion:142 Resp: 19375

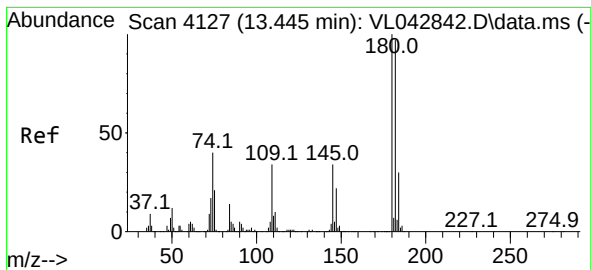
Ion Ratio Lower Upper

142 100

141 81.6 67.0 100.6

115 43.2 30.9 46.3





#81

1,2,4-Trichlorobenzene

Concen: 1.111 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042844.D

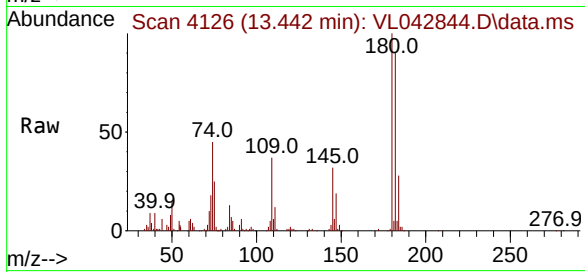
Acq: 13 Aug 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001



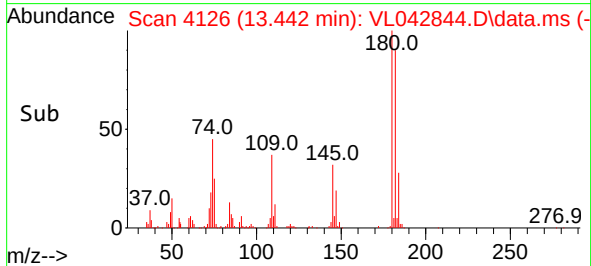
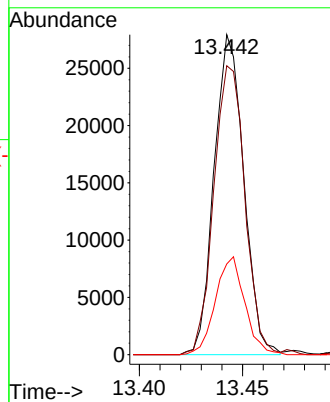
Tgt Ion:180 Resp: 27861

Ion Ratio Lower Upper

180 100

182 95.5 76.9 115.3

184 30.3 24.5 36.7



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 26 06:05:16 2022
 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	2.797	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-Trichlorotrifluo...	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	2065	0.318	ppbv #	1
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	7529	0.484	ppbv	89
44) 2,2,4-Trimethylpentane	4.651	57	16770	0.263	ppbv #	40
45) t-1,3-Dichloropropene	6.435	75	5507	0.312	ppbv	90

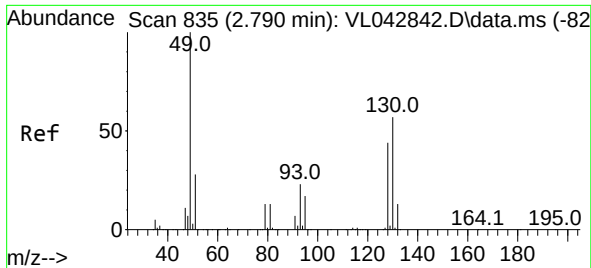
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 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

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 26 06:05:16 2022
 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	5.613	75	4895	0.221	ppbv	89
47) 1,1,2-Trichloroethane	6.597	97	3140	0.214	ppbv	90
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	11657	0.321	ppbv #	52
51) 2-Hexanone	7.458	43	14329	0.503	ppbv #	99
52) Tetrachloroethene	8.244	164	7304	0.531	ppbv #	87
53) Toluene	6.949	91	14358	0.318	ppbv #	41
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	9.542	91	27059	0.561	ppbv #	100
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

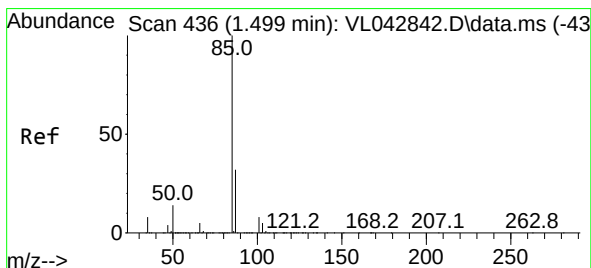
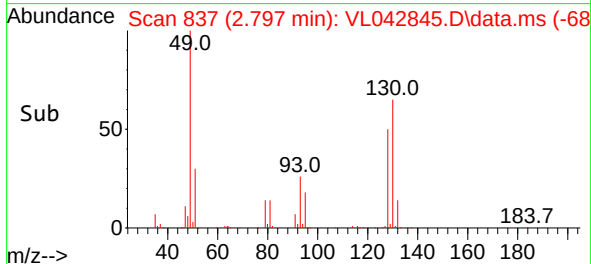
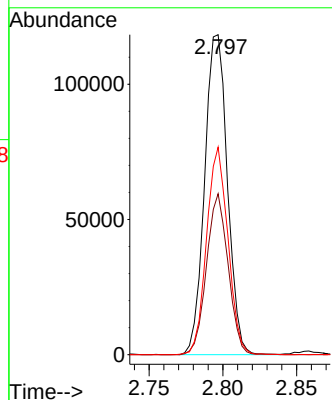
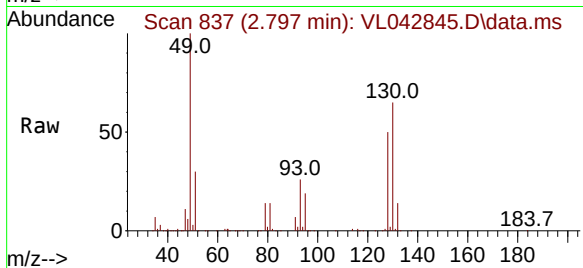
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.797 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

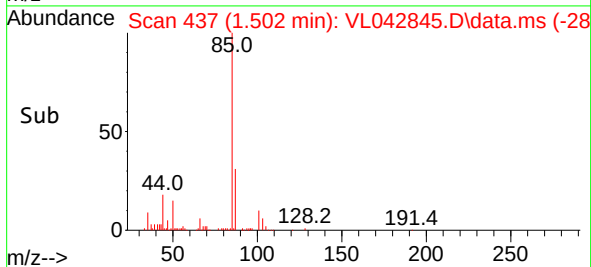
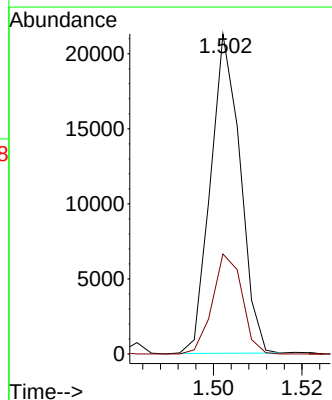
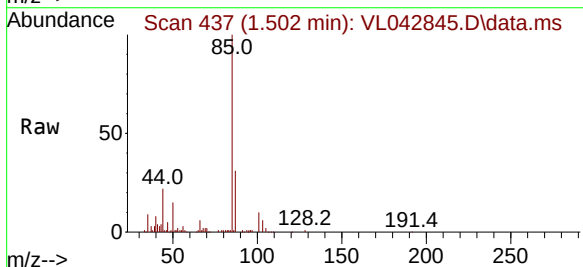
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

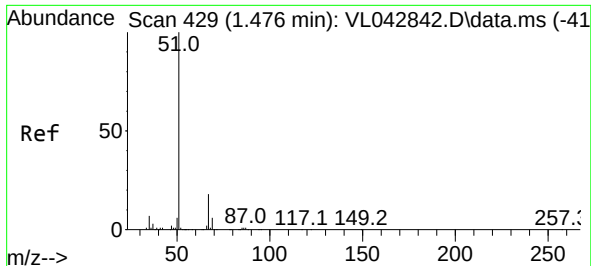
Tgt Ion: 49 Resp: 126879
 Ion Ratio Lower Upper
 49 100
 128 47.7 23.7 71.1
 130 60.9 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 0.534 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Tgt Ion: 85 Resp: 9937
 Ion Ratio Lower Upper
 85 100
 87 31.3 25.3 37.9

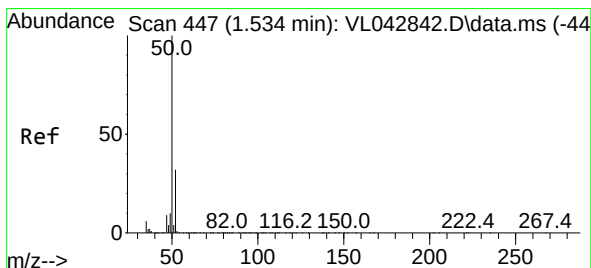
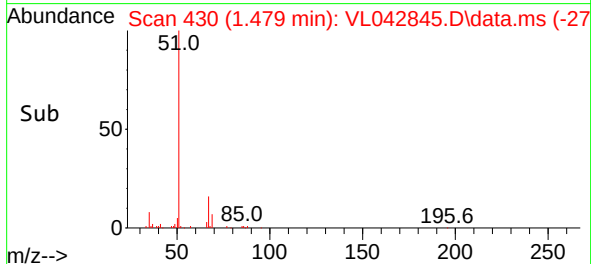
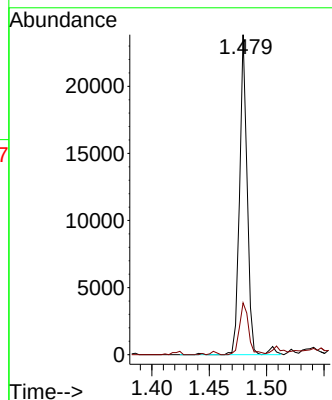
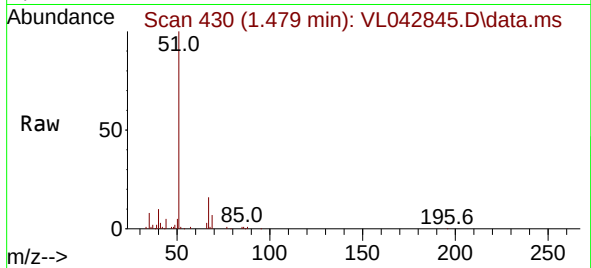




#3
Chlorodifluoromethane
Concen: 0.540 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

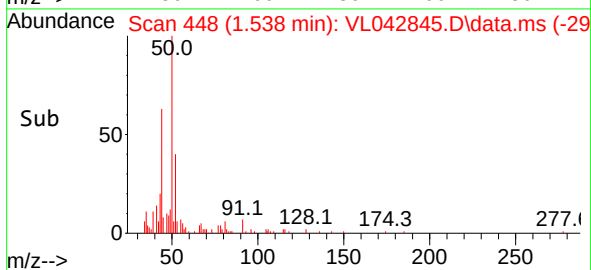
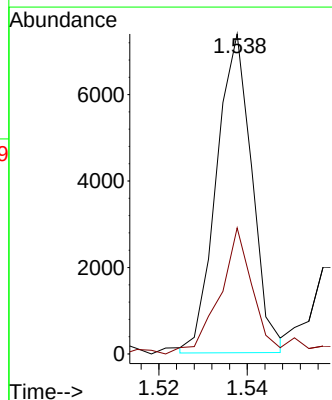
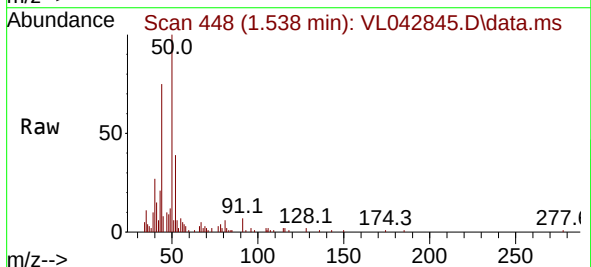
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

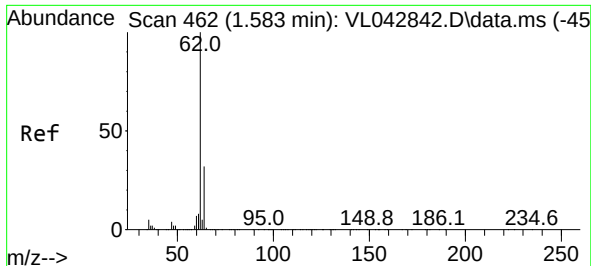
Tgt Ion: 51 Resp: 11115
Ion Ratio Lower Upper
51 100
67 20.5 14.9 22.3



#4
Chloromethane
Concen: 0.548 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 50 Resp: 4112
Ion Ratio Lower Upper
50 100
52 38.2 25.9 38.9

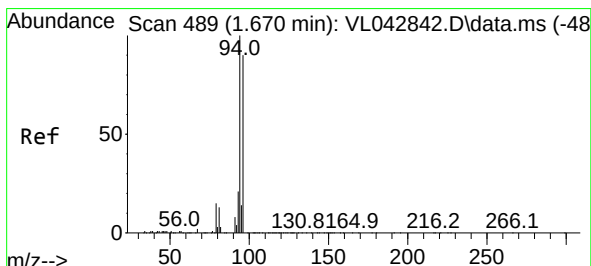
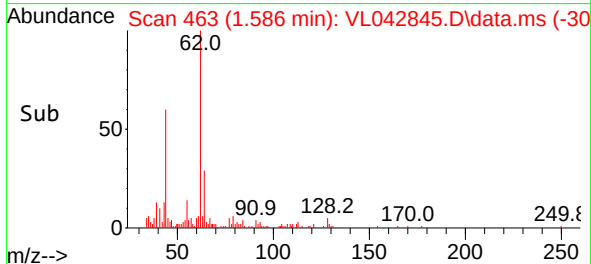
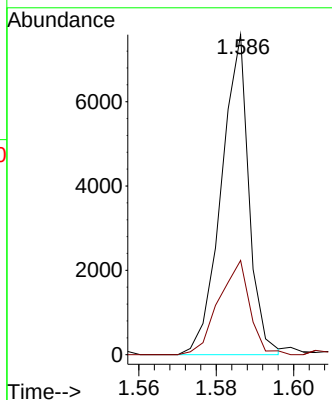
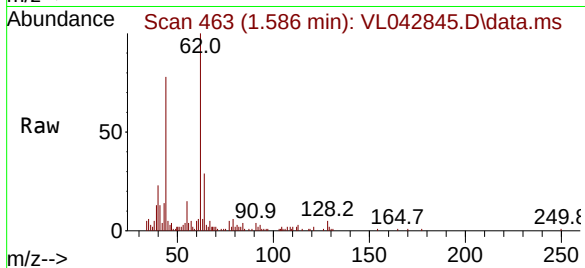




#5
 Vinyl Chloride
 Concen: 0.509 ppbv
 RT: 1.586 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

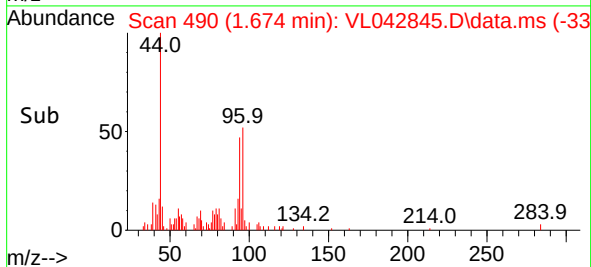
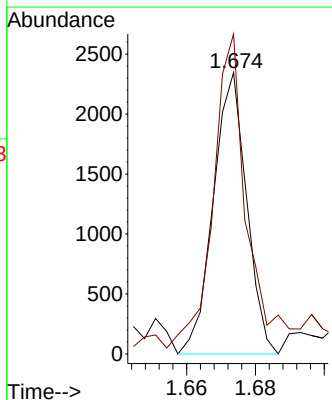
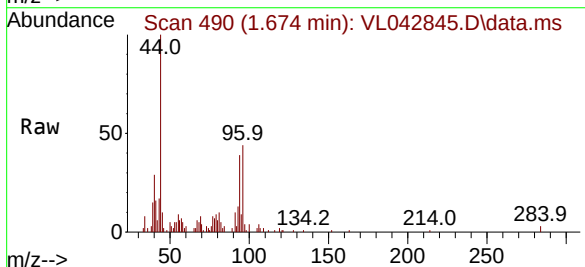
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

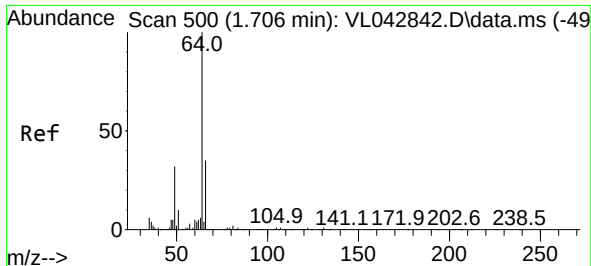
Tgt Ion: 62 Resp: 3762
 Ion Ratio Lower Upper
 62 100
 64 28.3 25.4 38.2



#6
 Bromomethane
 Concen: 0.533 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Tgt Ion: 94 Resp: 1576
 Ion Ratio Lower Upper
 94 100
 96 106.9 72.1 108.1

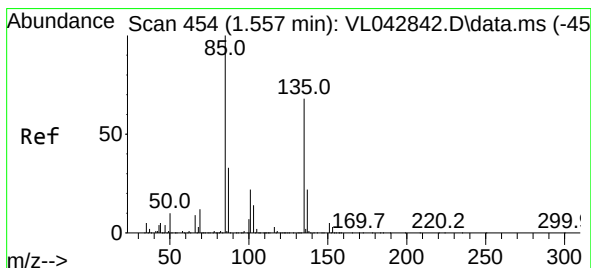
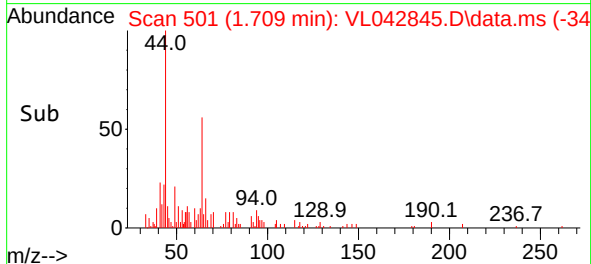
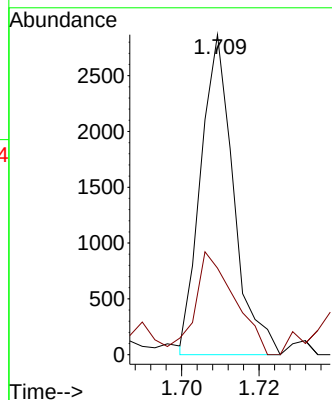
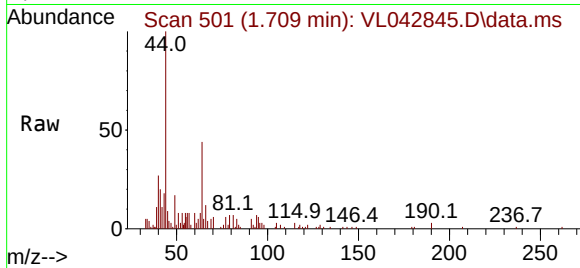




#7
Chloroethane
Concen: 0.586 ppbv
RT: 1.709 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

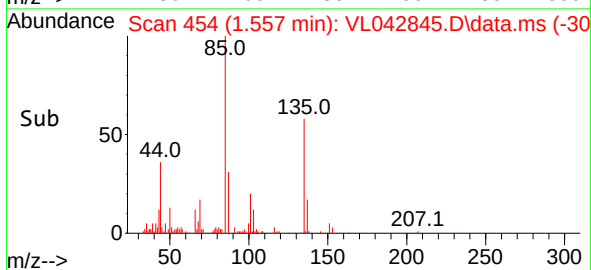
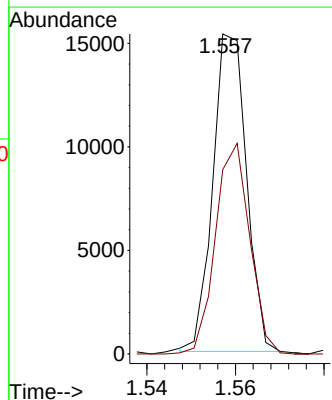
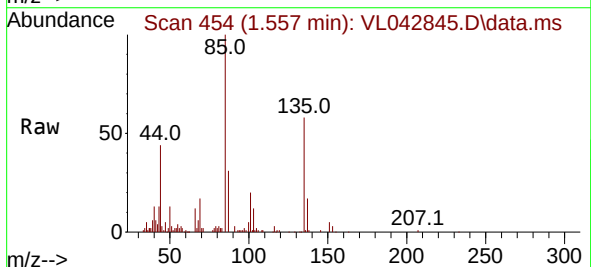
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

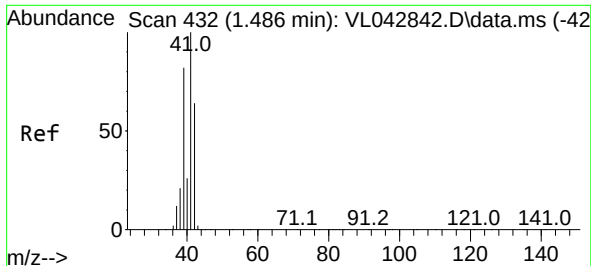
Tgt Ion: 64 Resp: 1690
Ion Ratio Lower Upper
64 100
66 27.0 28.6 42.8#



#8
Dichlorotetrafluoroethane
Concen: 0.531 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 85 Resp: 8079
Ion Ratio Lower Upper
85 100
135 67.7 51.2 76.8

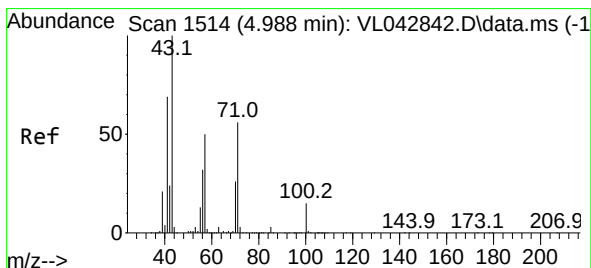
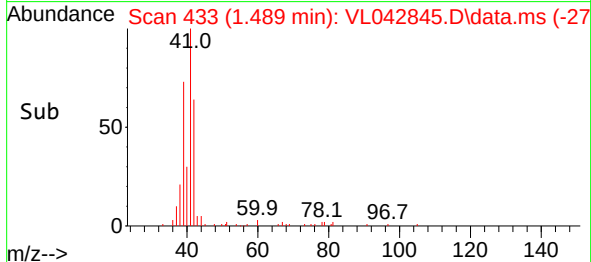
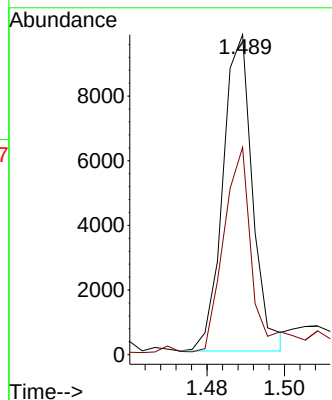
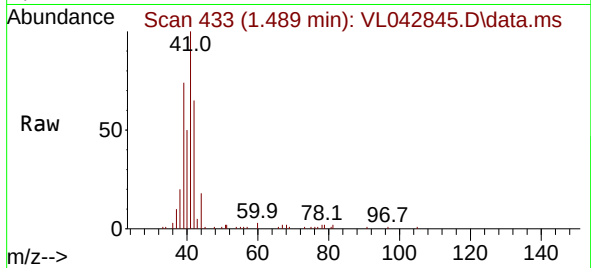




#9
Propene
Concen: 0.589 ppbv
RT: 1.489 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

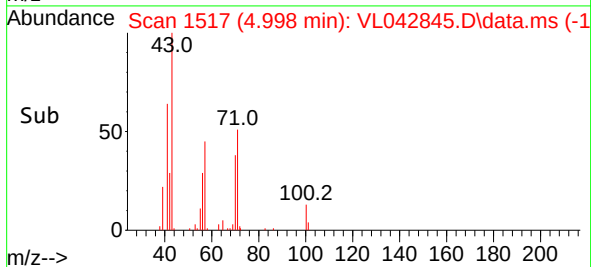
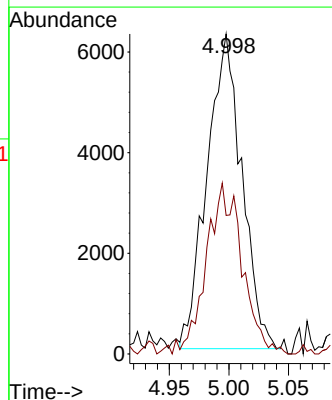
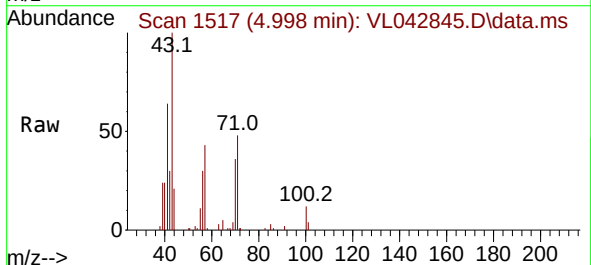
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

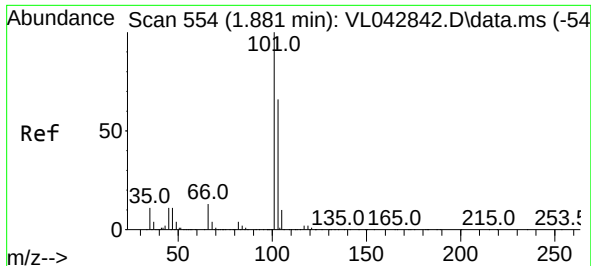
Tgt Ion: 41 Resp: 5225
Ion Ratio Lower Upper
41 100
42 73.7 53.0 79.4



#10
Heptane
Concen: 0.537 ppbv
RT: 4.998 min Scan# 1517
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 43 Resp: 12747
Ion Ratio Lower Upper
43 100
57 56.9 41.4 62.0

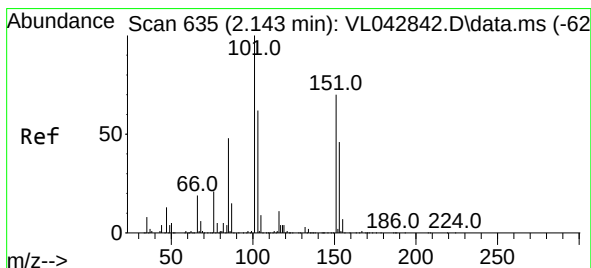
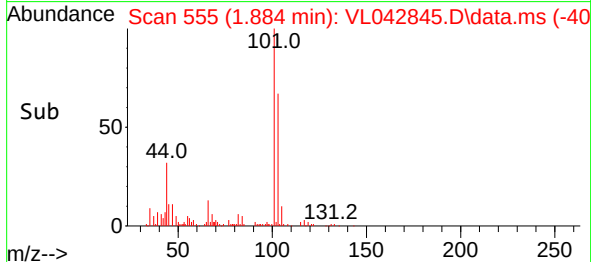
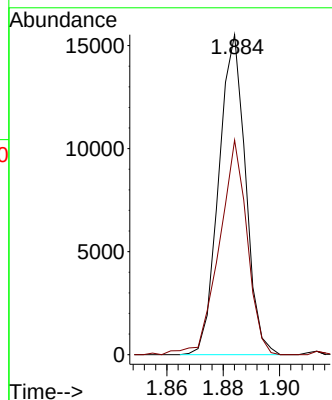
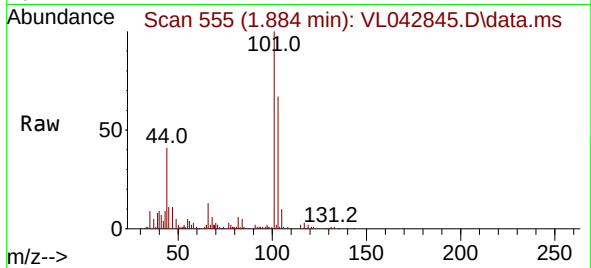




#11
Trichlorofluoromethane
Concen: 0.558 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

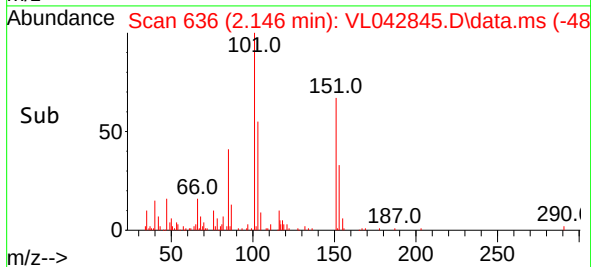
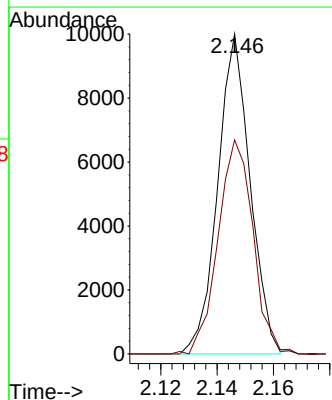
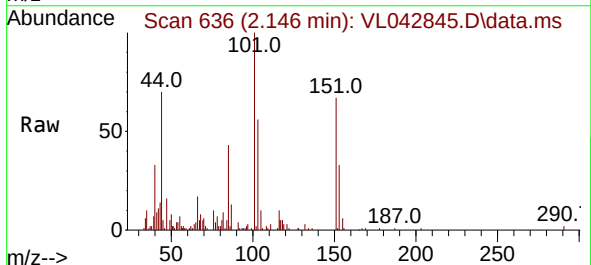
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

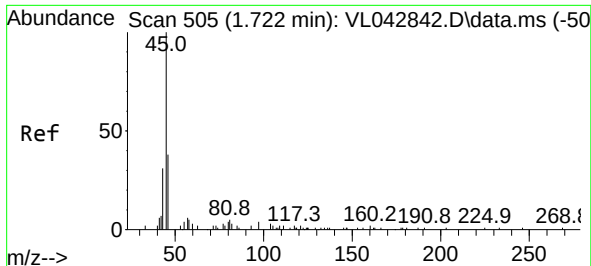
Tgt Ion:101 Resp: 10238
Ion Ratio Lower Upper
101 100
103 67.0 52.5 78.7



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.546 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:101 Resp: 7984
Ion Ratio Lower Upper
101 100
151 72.3 56.4 84.6

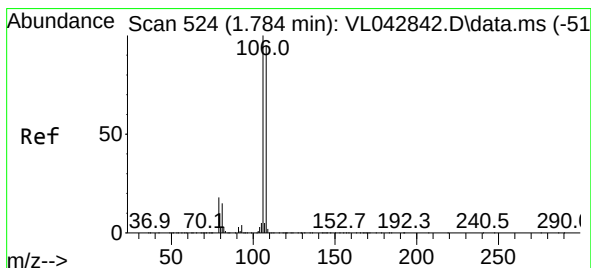
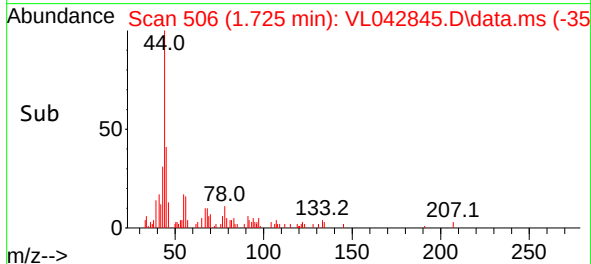
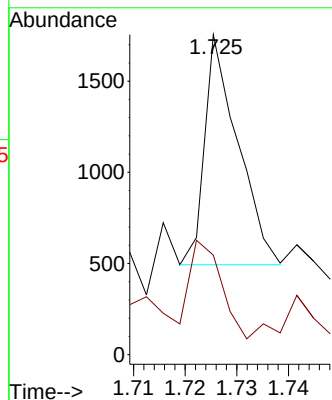
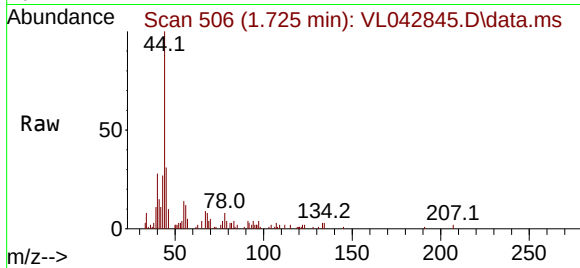




#13
Ethanol
Concen: 0.639 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

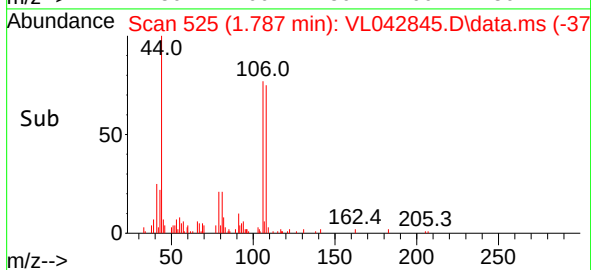
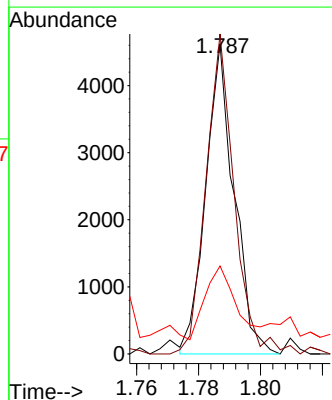
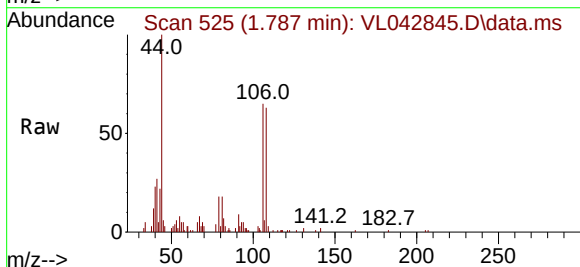
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

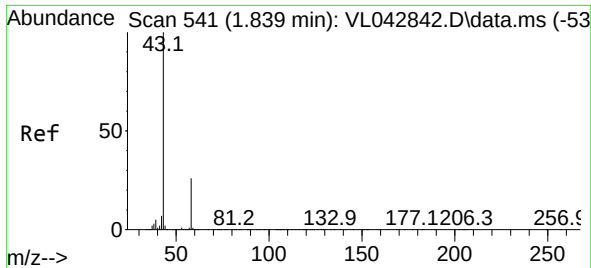
Tgt Ion: 45 Resp: 562
Ion Ratio Lower Upper
45 100
46 131.5 17.5 69.9#



#14
Bromoethene
Concen: 0.554 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 108 Resp: 2932
Ion Ratio Lower Upper
108 100
106 106.1 85.1 127.7
79 62.6 16.3 24.5#

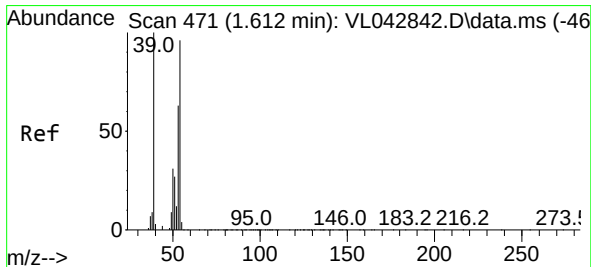
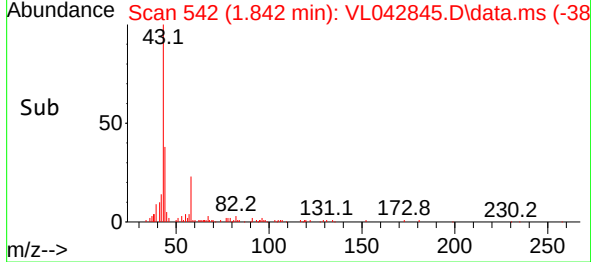
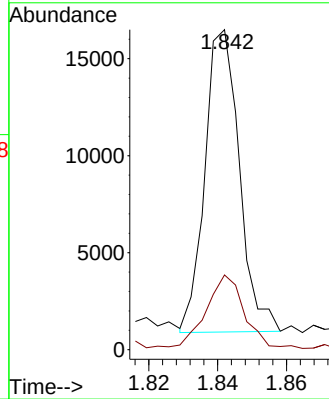
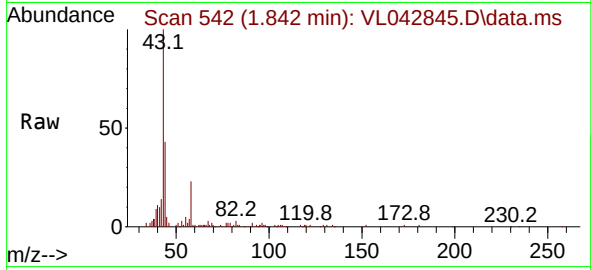




#15
Acetone
Concen: 0.646 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

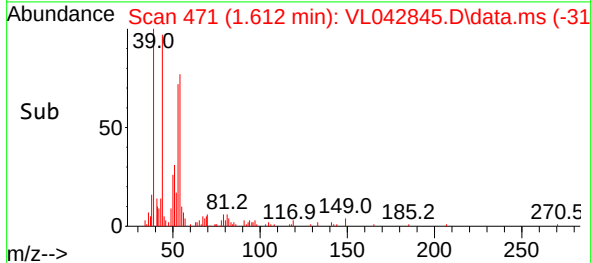
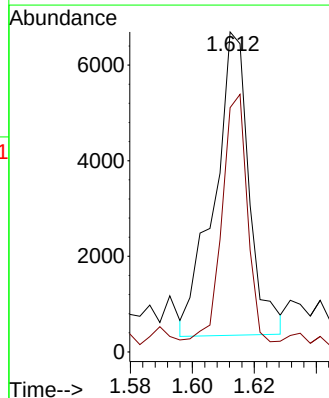
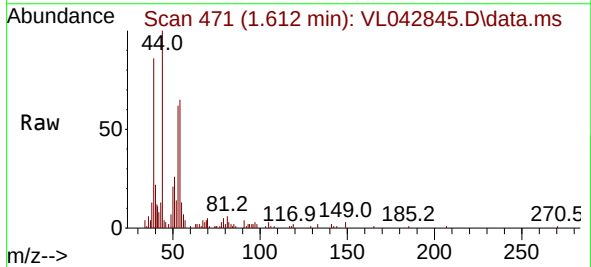
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

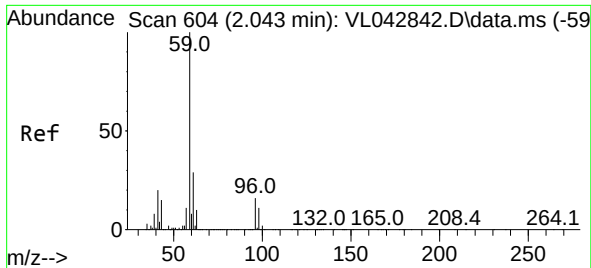
Tgt Ion: 43 Resp: 10836
Ion Ratio Lower Upper
43 100
58 26.8 22.4 33.6



#16
1,3-Butadiene
Concen: 0.653 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 39 Resp: 4970
Ion Ratio Lower Upper
39 100
54 78.6 63.6 95.4

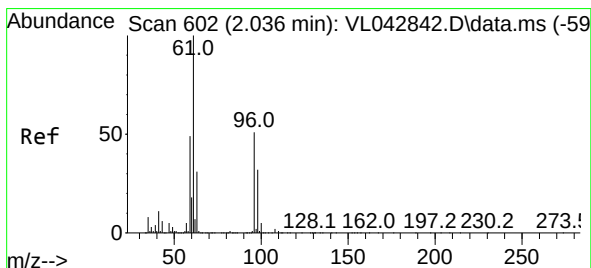
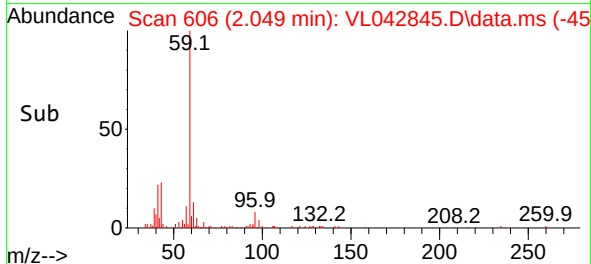
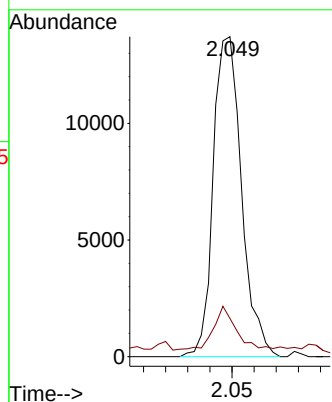
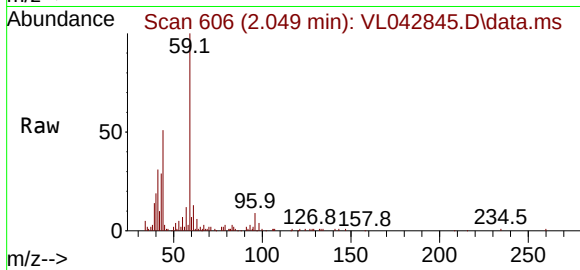




#17
 tert-Butyl alcohol
 Concen: 0.612 ppbv
 RT: 2.049 min Scan# 604
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

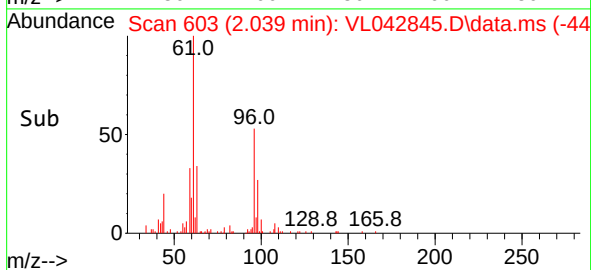
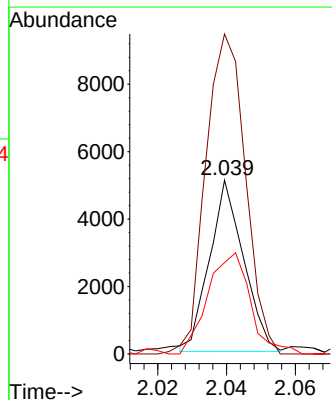
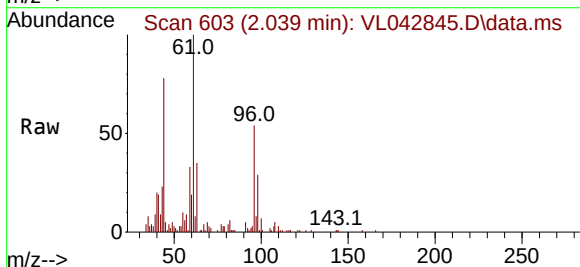
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

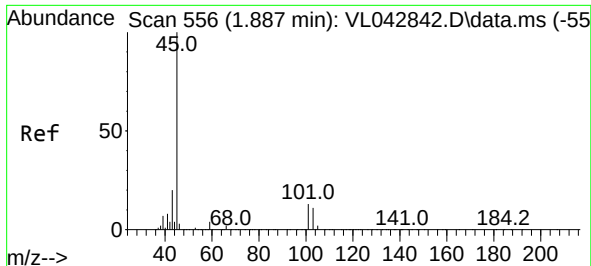
Tgt Ion: 59 Resp: 12182
 Ion Ratio Lower Upper
 59 100
 57 15.3 9.0 13.4#



#18
 1,1-Dichloroethene
 Concen: 0.545 ppbv
 RT: 2.039 min Scan# 603
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Tgt Ion: 96 Resp: 3501
 Ion Ratio Lower Upper
 96 100
 61 188.2 158.2 237.4
 98 53.8 50.6 76.0

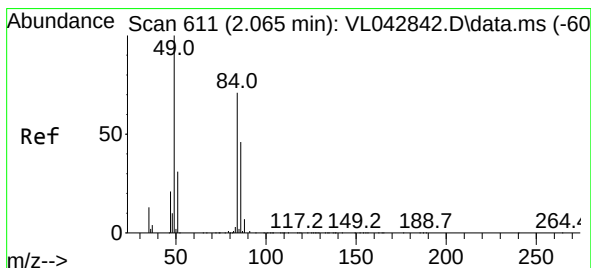
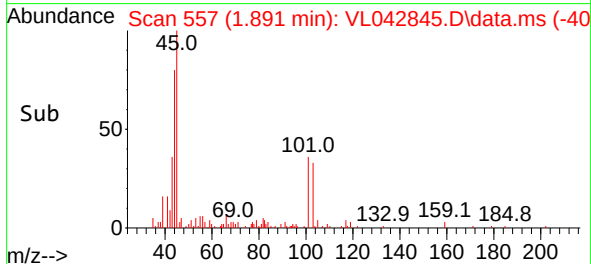
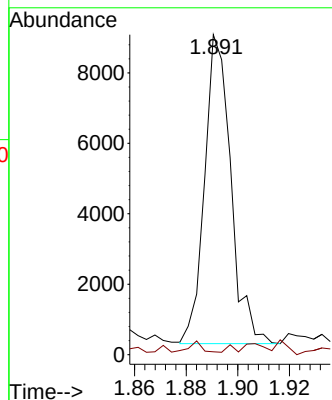
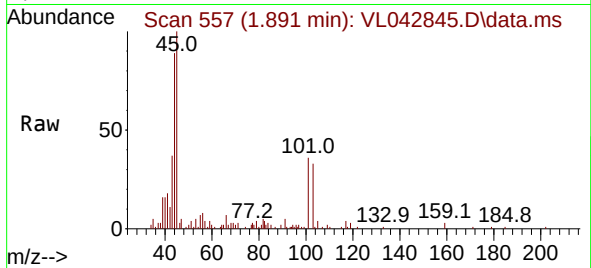




#19
Isopropyl Alcohol
Concen: 0.618 ppbv
RT: 1.891 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

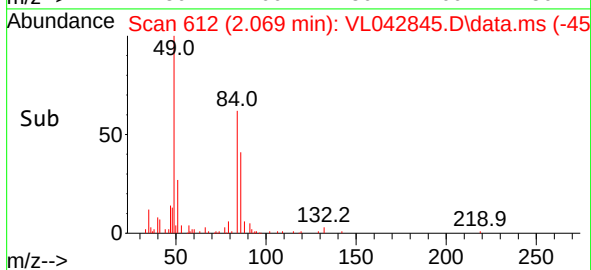
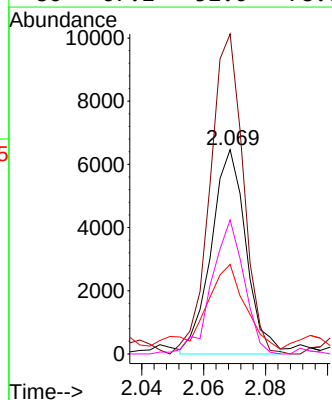
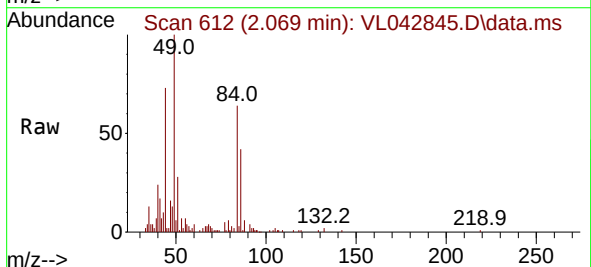
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

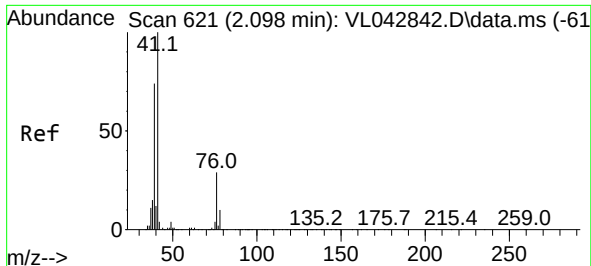
Tgt Ion: 45 Resp: 6194
Ion Ratio Lower Upper
45 100
58 13.3 32.7 49.1#



#20
Methylene Chloride
Concen: 0.715 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 84 Resp: 5025
Ion Ratio Lower Upper
84 100
49 159.3 112.3 168.5
51 42.5 36.0 54.0
86 67.2 52.0 78.0

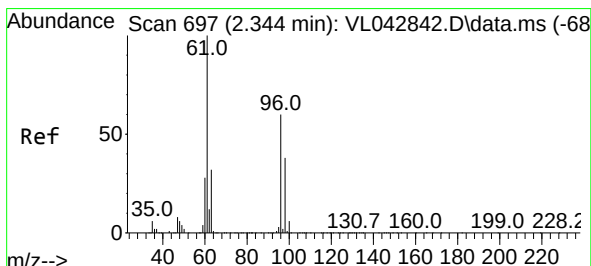
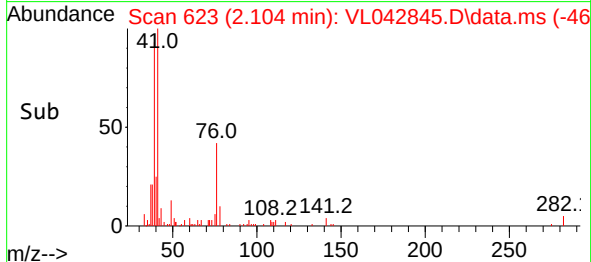
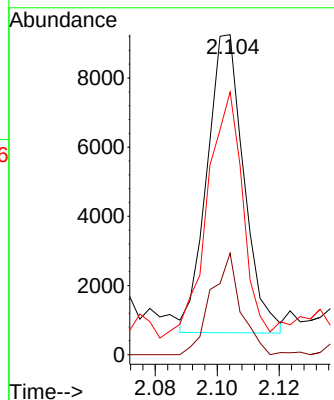
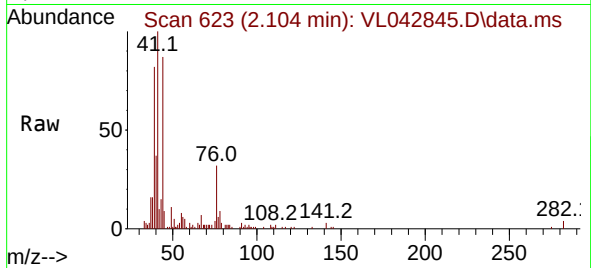




#21
 Allyl Chloride
 Concen: 0.600 ppbv
 RT: 2.104 min Scan# 611
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

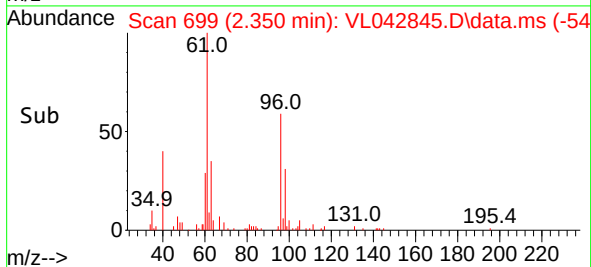
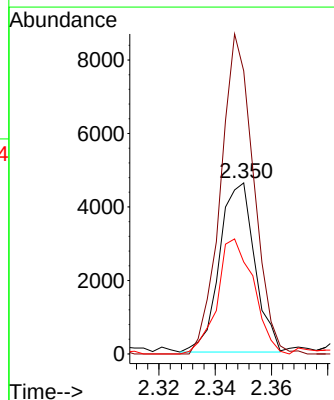
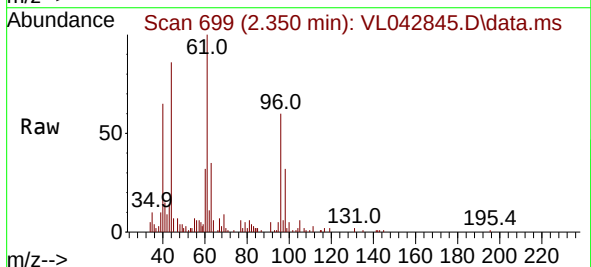
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

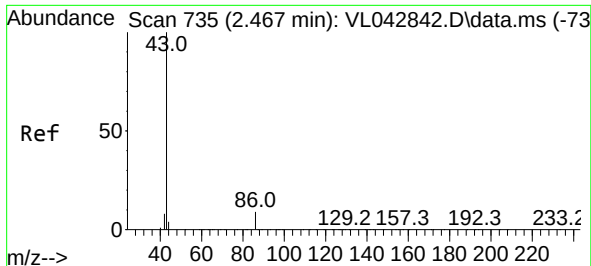
Tgt Ion: 41 Resp: 7120
 Ion Ratio Lower Upper
 41 100
 76 27.8 23.9 35.9
 39 98.9 57.8 86.6#



#22
 trans-1,2-Dichloroethene
 Concen: 0.556 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Tgt Ion: 96 Resp: 3996
 Ion Ratio Lower Upper
 96 100
 61 167.3 132.6 199.0
 98 54.4 50.0 75.0

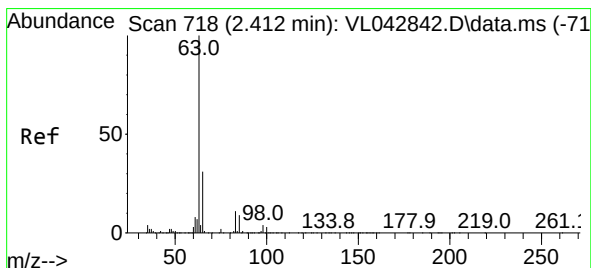
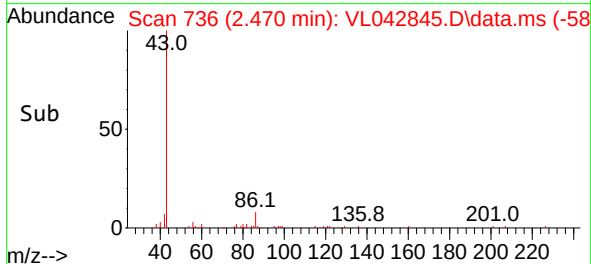
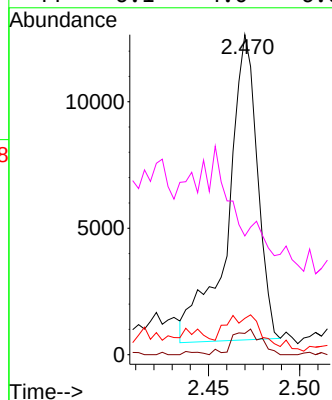
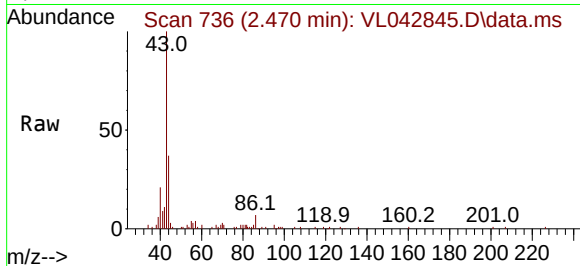




#23
 Vinyl Acetate
 Concen: 0.621 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

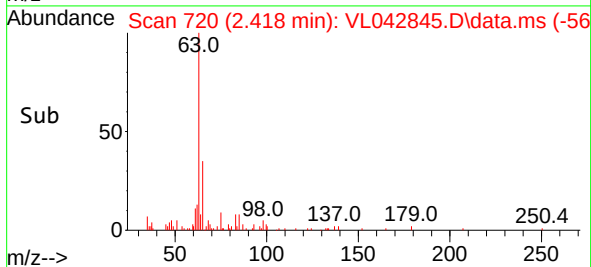
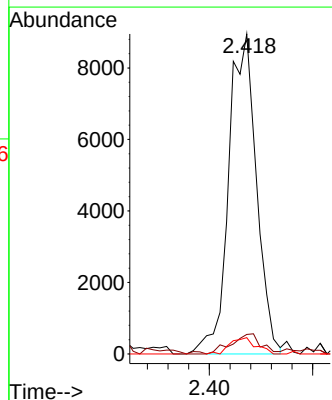
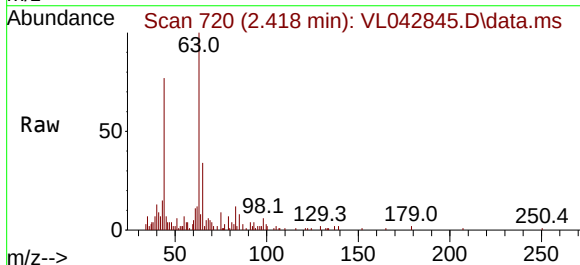
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

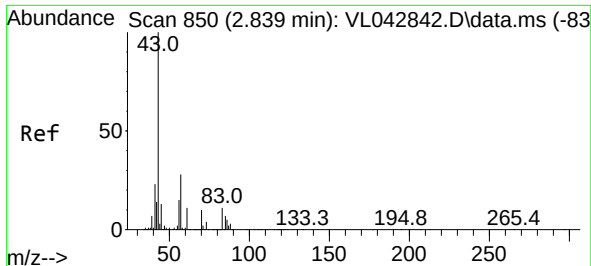
Tgt Ion:	43	Resp:	13709
Ion	Ratio	Lower	Upper
43	100		
86	7.0	6.6	9.8
42	9.3	7.0	10.6
44	6.1	4.0	6.0



#24
 1,1-Dichloroethane
 Concen: 0.562 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.006 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Tgt Ion:	63	Resp:	8354
Ion	Ratio	Lower	Upper
63	100		
98	5.5	2.1	6.5
100	5.1	1.7	5.1

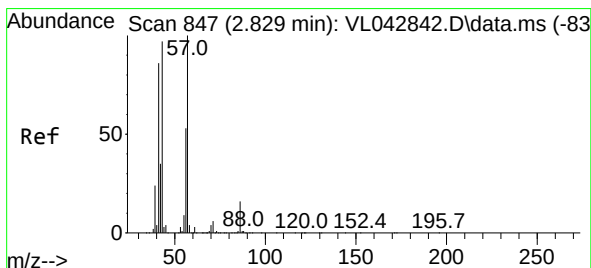
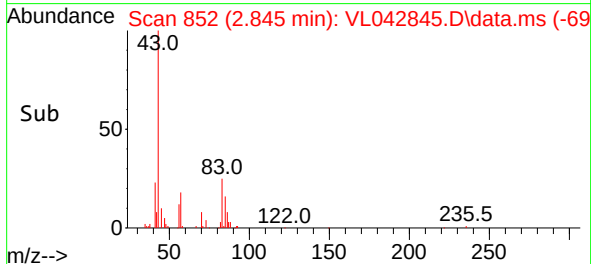
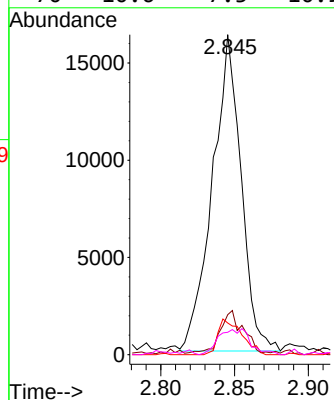
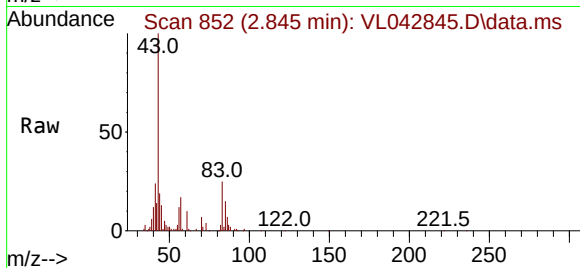




#25
Ethyl Acetate
Concen: 0.545 ppbv
RT: 2.845 min Scan# 811
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

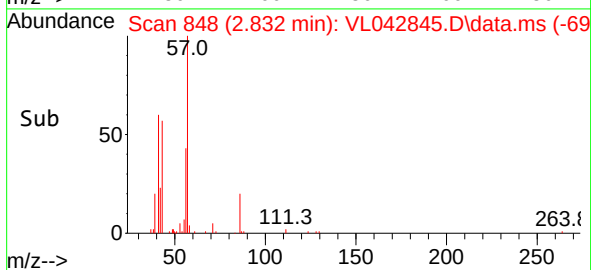
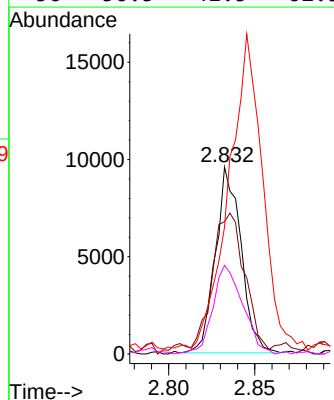
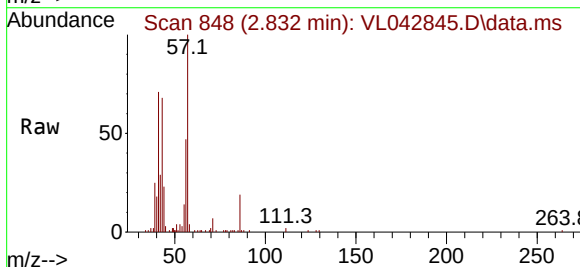
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

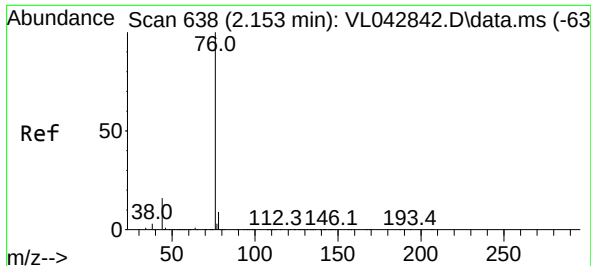
Tgt Ion:	43	Resp:	22148
Ion	Ratio	Lower	Upper
43	100		
45	13.2	8.1	12.1#
61	9.4	7.4	11.2
70	10.6	7.3	10.9



#26
Hexane
Concen: 0.527 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:	57	Resp:	9879
Ion	Ratio	Lower	Upper
57	100		
41	100.6	68.6	103.0
43	236.9	168.5	252.7
56	56.5	41.5	62.3





#27

Carbon Disulfide

Concen: 0.523 ppbv

RT: 2.156 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

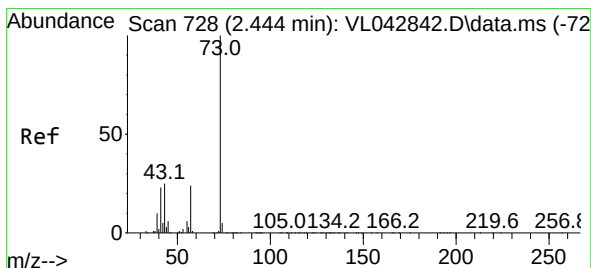
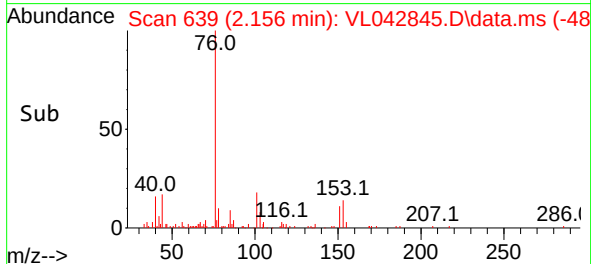
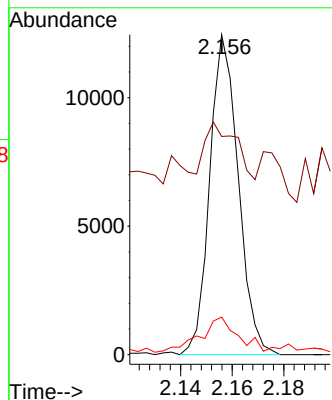
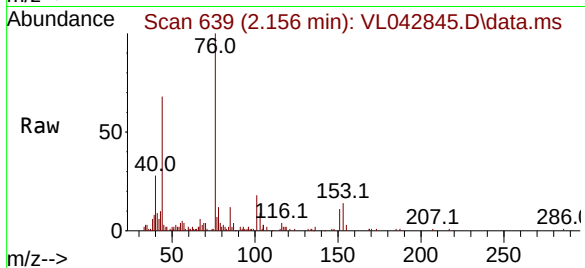
Tgt Ion: 76 Resp: 9539

Ion Ratio Lower Upper

76 100

44 136.8 15.9 23.9#

78 22.2 9.5 14.3#



#28

Methyl tert-Butyl Ether

Concen: 0.553 ppbv

RT: 2.447 min Scan# 729

Delta R.T. 0.003 min

Lab File: VL042845.D

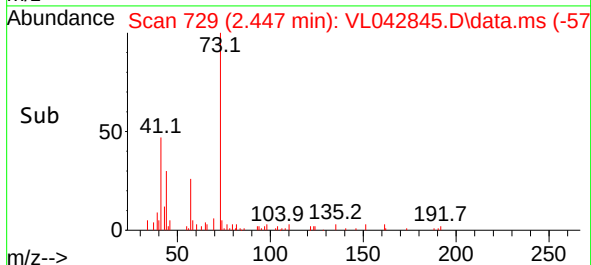
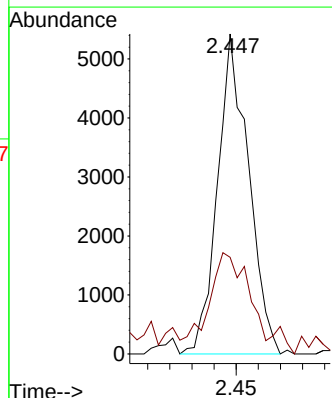
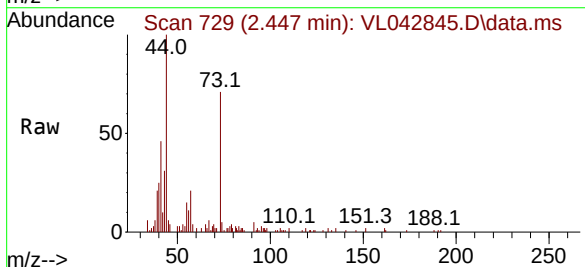
Acq: 13 Aug 2025 10:17

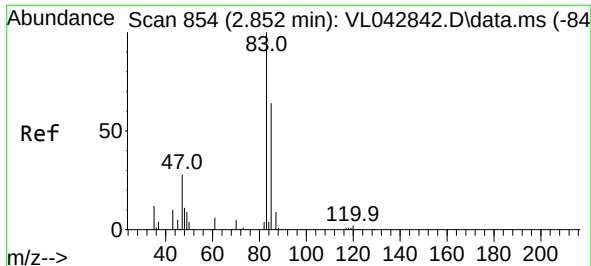
Tgt Ion: 73 Resp: 5284

Ion Ratio Lower Upper

73 100

57 46.5 21.6 32.4#





#29

Chloroform

Concen: 0.545 ppbv

RT: 2.858 min Scan# 856

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

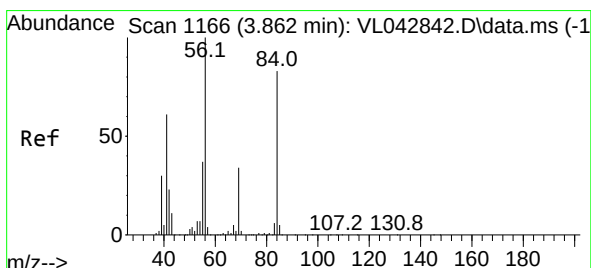
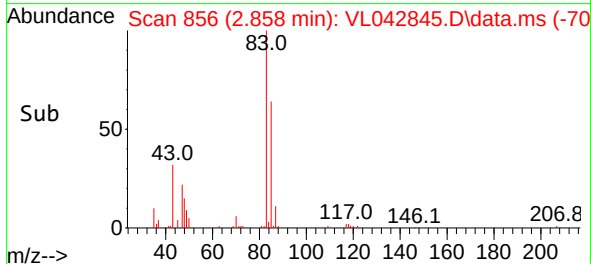
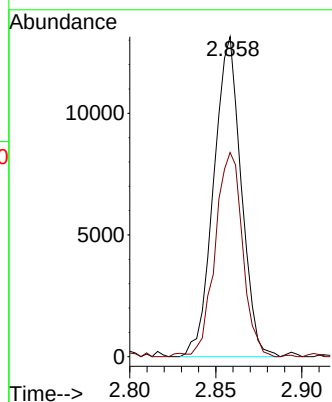
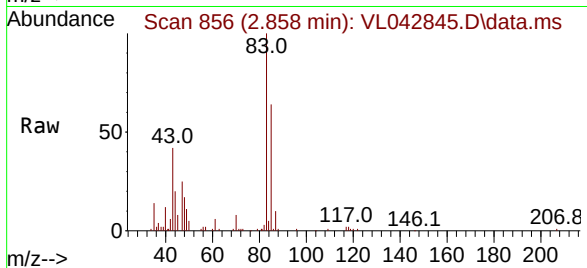
VSTDICC0.5

Tgt Ion: 83 Resp: 14586

Ion Ratio Lower Upper

83 100

85 63.8 51.1 76.7



#30

Cyclohexane

Concen: 0.550 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

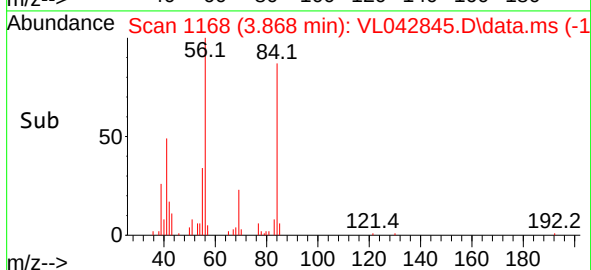
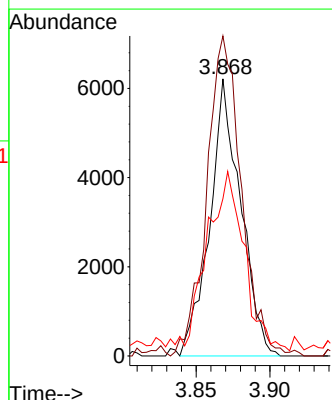
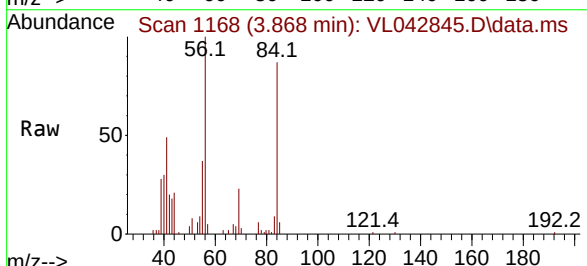
Tgt Ion: 84 Resp: 9037

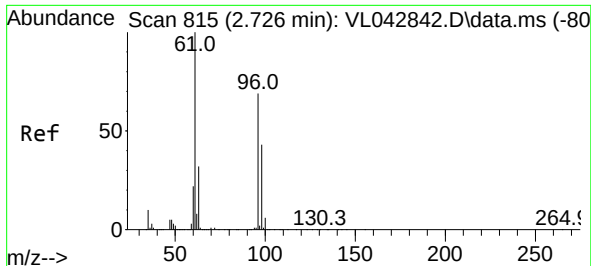
Ion Ratio Lower Upper

84 100

56 131.1 98.8 148.2

41 80.1 61.3 91.9

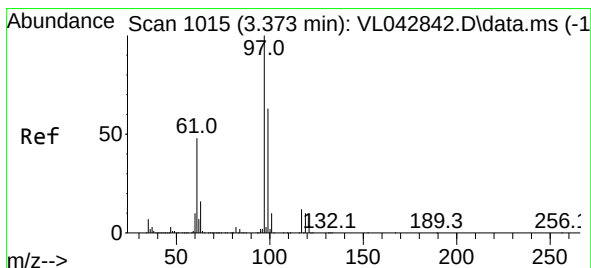
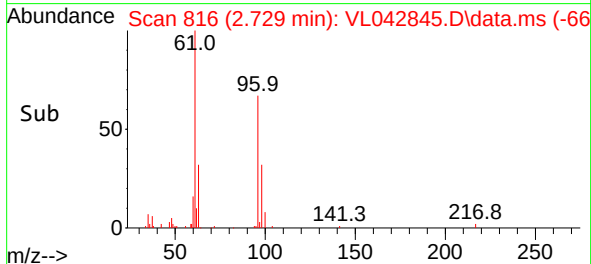
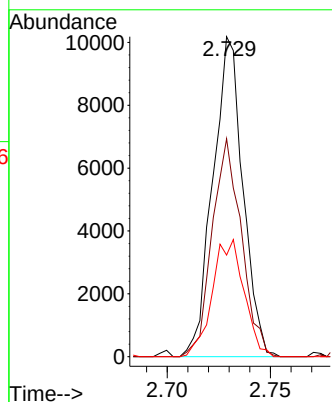
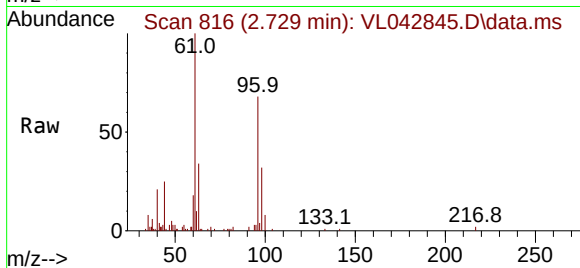




#31
 cis-1,2-Dichloroethene
 Concen: 0.550 ppbv
 RT: 2.729 min Scan# 815
 Delta R.T. 0.003 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

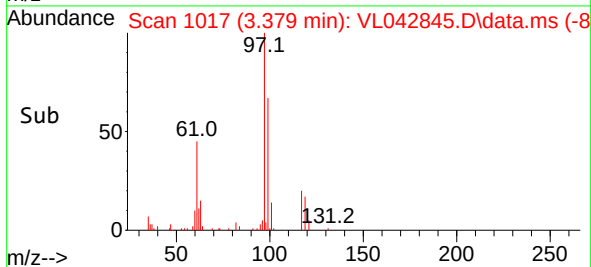
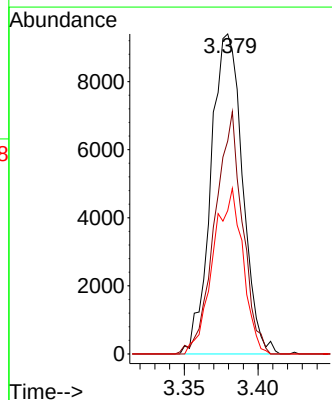
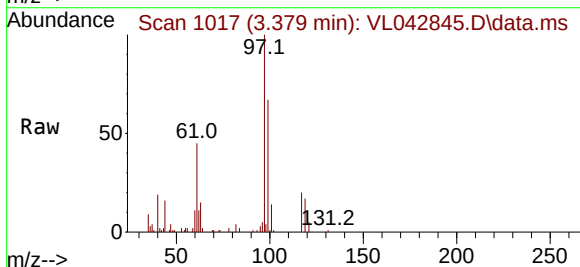
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

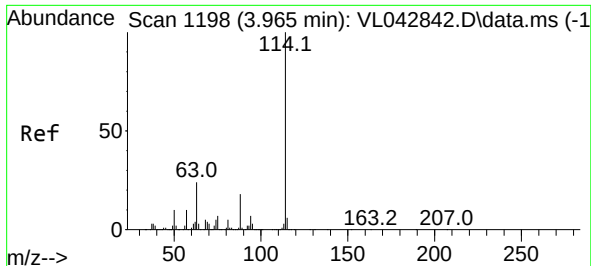
Tgt Ion: 61 Resp: 10308
 Ion Ratio Lower Upper
 61 100
 96 61.7 55.0 82.6
 98 28.7 34.3 51.5#



#32
 1,1,1-Trichloroethane
 Concen: 0.494 ppbv
 RT: 3.379 min Scan# 1017
 Delta R.T. 0.007 min
 Lab File: VL042845.D
 Acq: 13 Aug 2025 10:17

Tgt Ion: 97 Resp: 14011
 Ion Ratio Lower Upper
 97 100
 99 66.4 51.0 76.6
 61 48.9 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

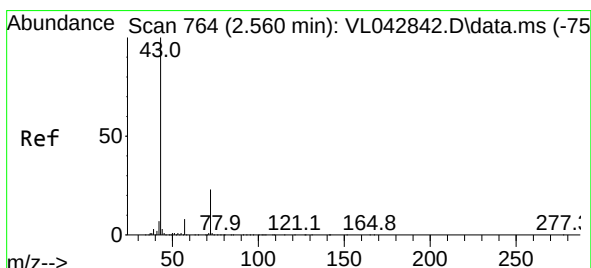
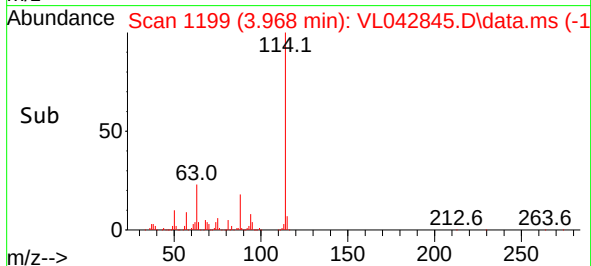
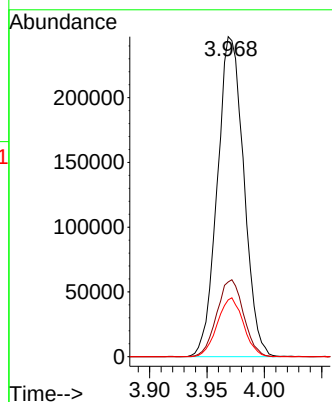
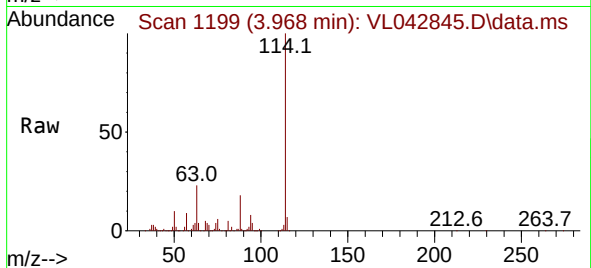
Tgt Ion:114 Resp: 396264

Ion Ratio Lower Upper

114 100

63 24.3 19.7 29.5

88 18.1 14.4 21.6



#34

2-Butanone

Concen: 0.558 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.006 min

Lab File: VL042845.D

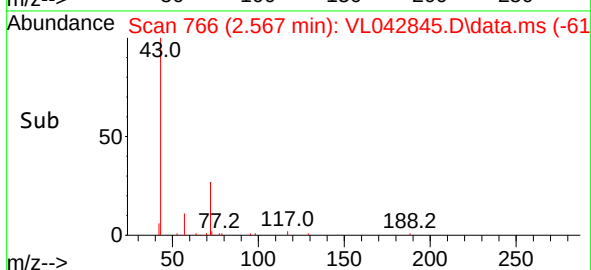
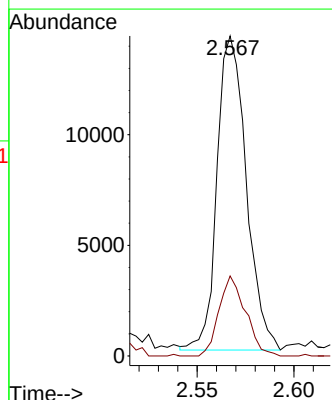
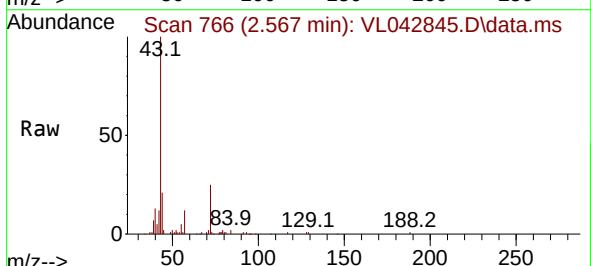
Acq: 13 Aug 2025 10:17

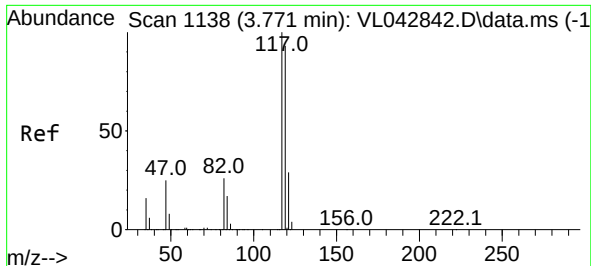
Tgt Ion: 43 Resp: 14923

Ion Ratio Lower Upper

43 100

72 23.3 18.6 28.0

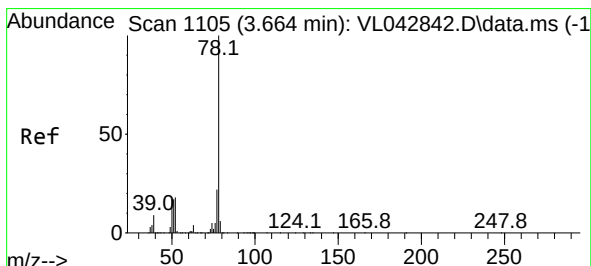
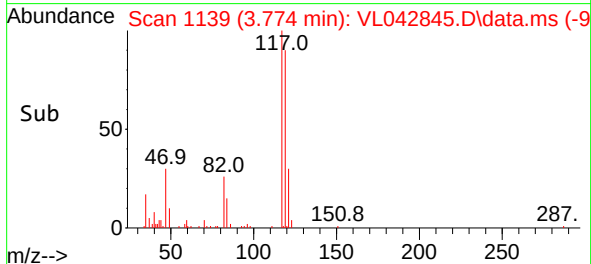
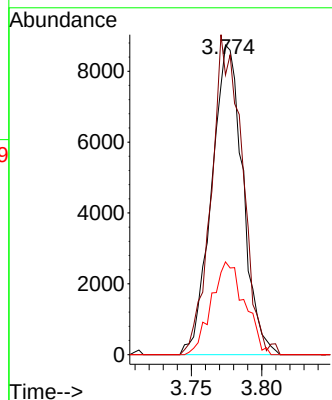
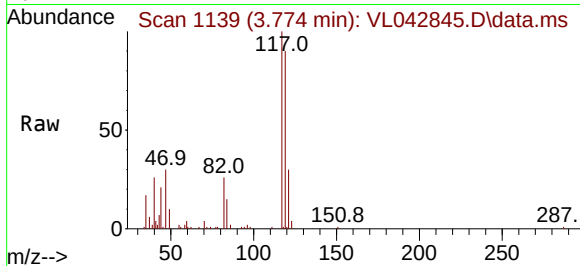




#35
Carbon Tetrachloride
Concen: 0.494 ppbv
RT: 3.774 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

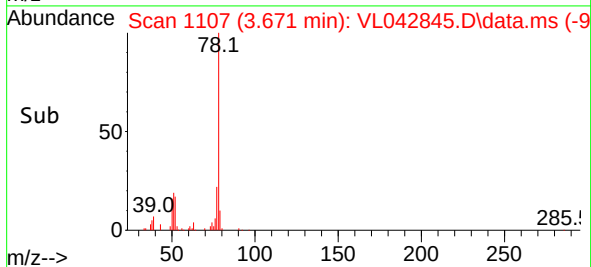
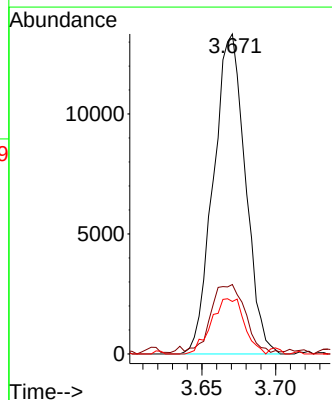
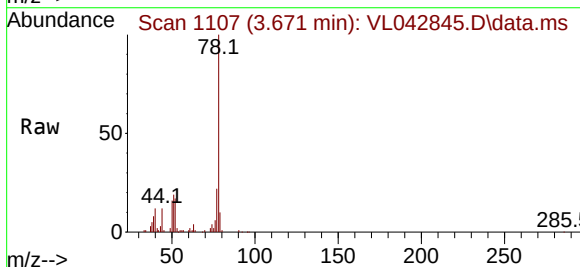
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

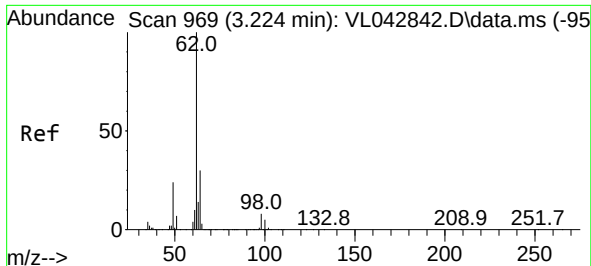
Tgt Ion:117 Resp: 13507
Ion Ratio Lower Upper
117 100
119 90.3 74.7 112.1
121 30.0 23.2 34.8



#36
Benzene
Concen: 0.529 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 78 Resp: 20073
Ion Ratio Lower Upper
78 100
77 21.0 17.7 26.5
50 16.4 13.9 20.9





#37

1,2-Dichloroethane

Concen: 0.512 ppbv

RT: 3.230 min Scan# 91

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

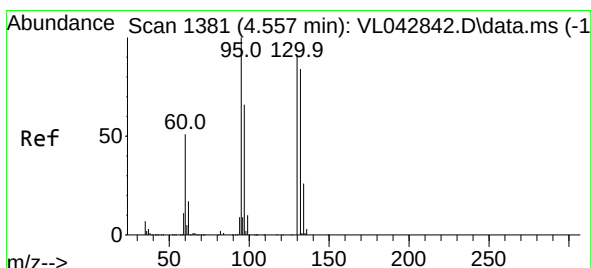
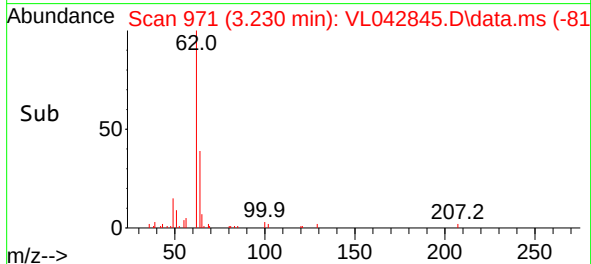
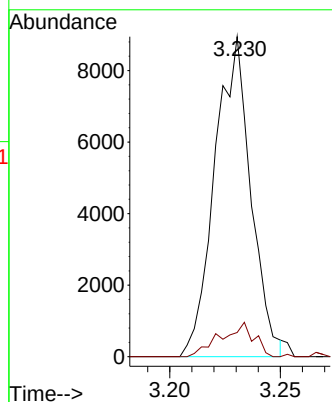
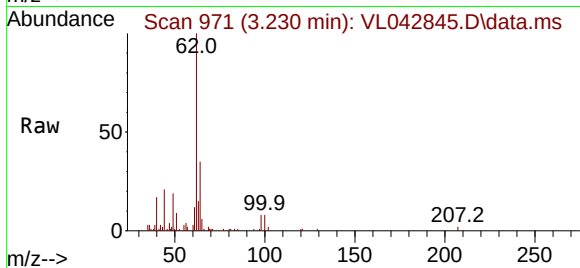
VSTDIC0.5

Tgt Ion: 62 Resp: 10141

Ion Ratio Lower Upper

62 100

98 10.0 5.9 8.9#



#38

Trichloroethene

Concen: 0.572 ppbv

RT: 4.564 min Scan# 1383

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Tgt Ion: 130 Resp: 9918

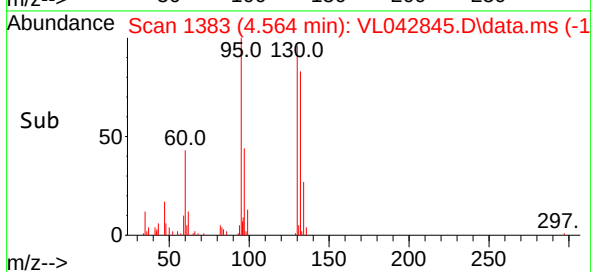
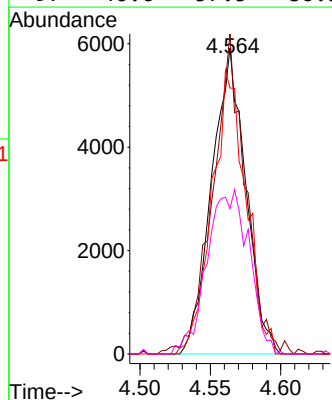
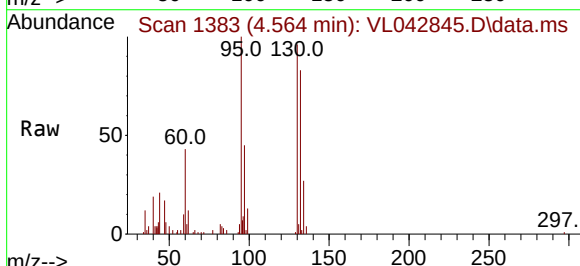
Ion Ratio Lower Upper

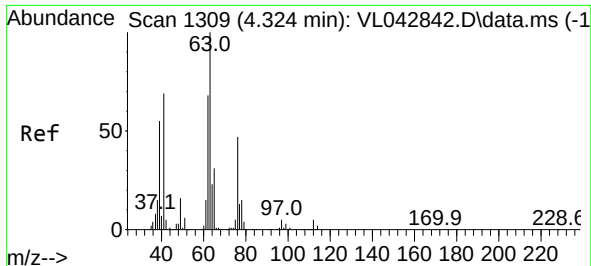
130 100

95 103.5 87.6 131.4

132 86.9 73.8 110.8

97 46.6 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 0.541 ppbv

RT: 4.334 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

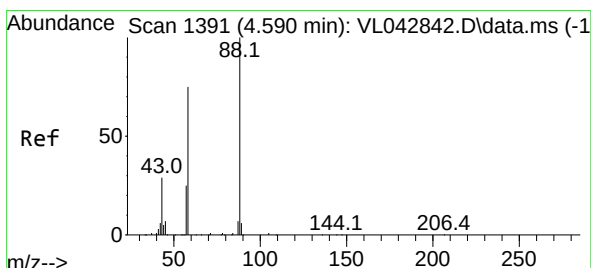
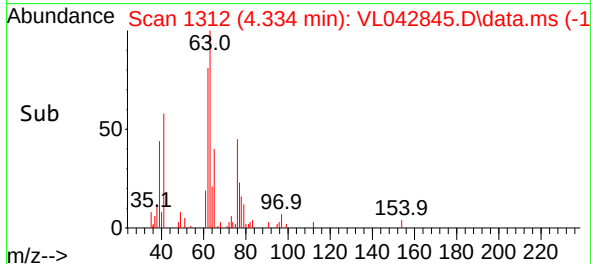
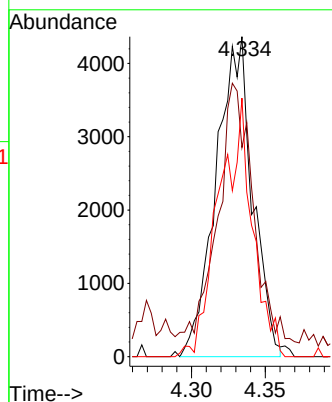
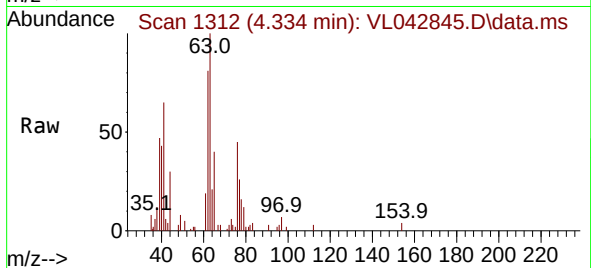
Tgt Ion: 63 Resp: 7491

Ion Ratio Lower Upper

63 100

41 57.8 55.0 82.4

62 79.7 54.4 81.6



#40

1,4-Dioxane

Concen: 0.318 ppbv

RT: 4.613 min Scan# 1398

Delta R.T. 0.023 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Tgt Ion: 88 Resp: 2065

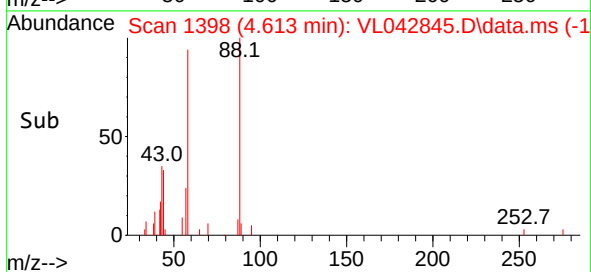
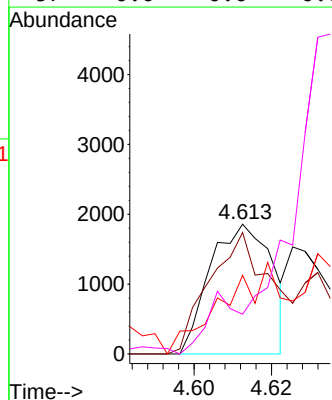
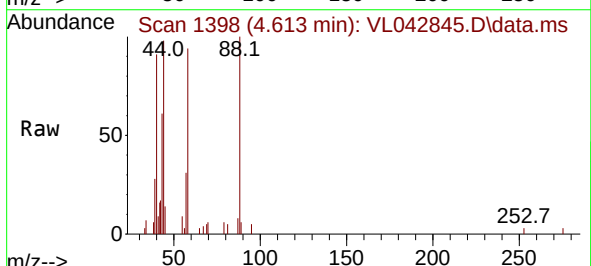
Ion Ratio Lower Upper

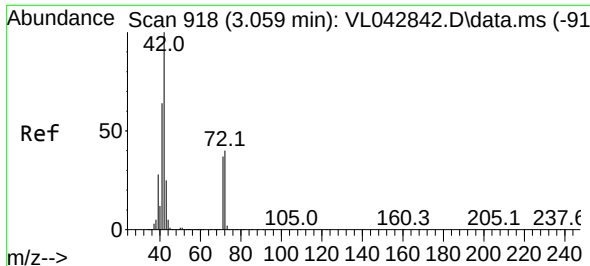
88 100

58 214.7 53.8 80.6#

43 0.0 22.8 34.2#

57 0.0 0.0 0.0

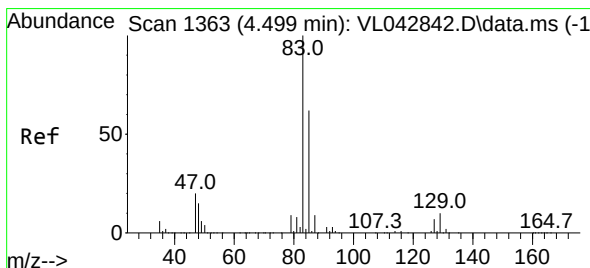
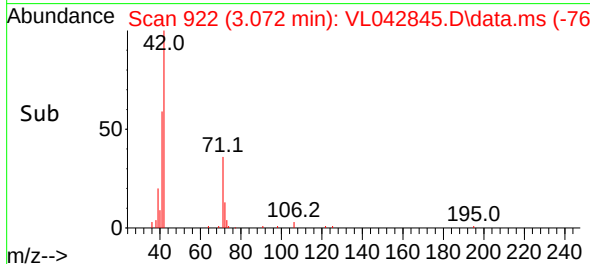
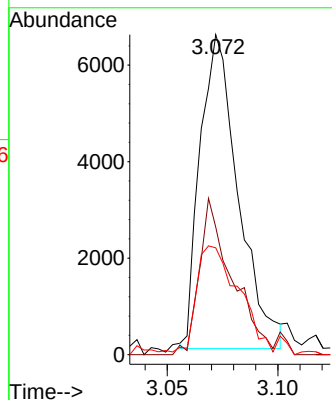
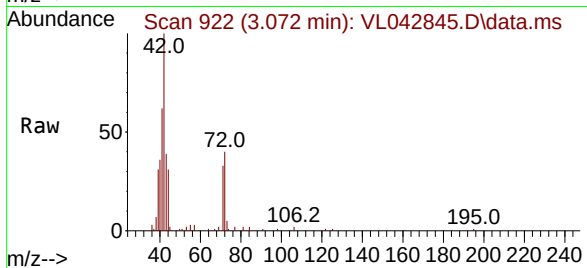




#41
Tetrahydrofuran
Concen: 0.525 ppbv
RT: 3.072 min Scan# 918
Delta R.T. 0.013 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

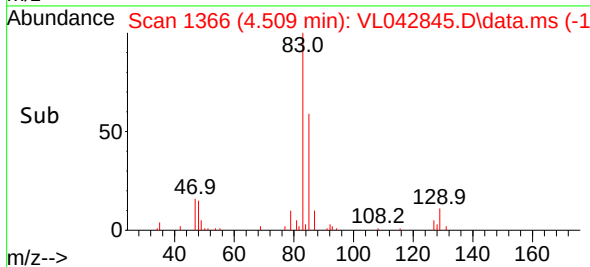
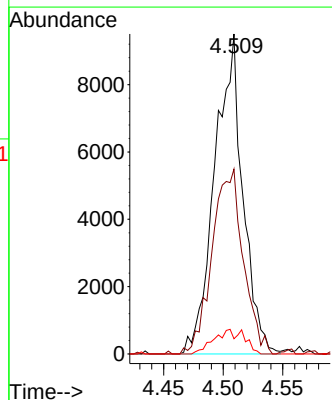
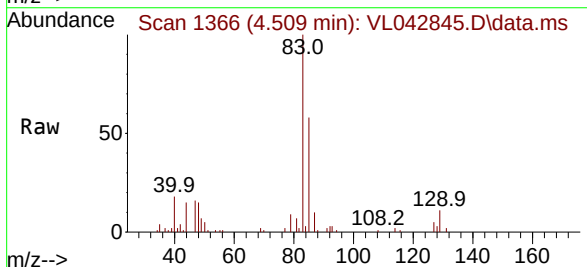
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

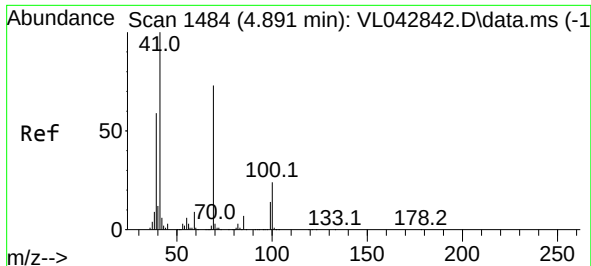
Tgt Ion:	42	Resp:	7827
Ion	Ratio	Lower	Upper
42	100		
72	44.5	32.6	48.8
71	42.0	30.0	45.0



#42
Bromodichloromethane
Concen: 0.527 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:	83	Resp:	15580
Ion	Ratio	Lower	Upper
83	100		
85	57.7	49.8	74.8
127	4.7	5.8	8.6

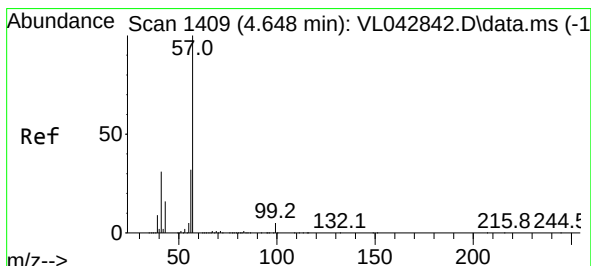
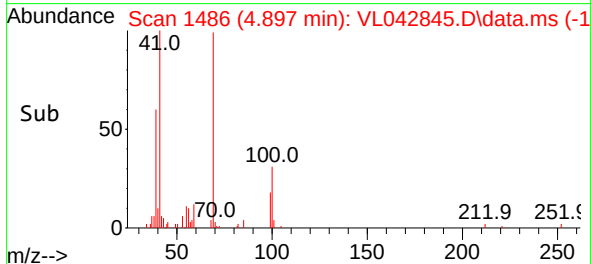
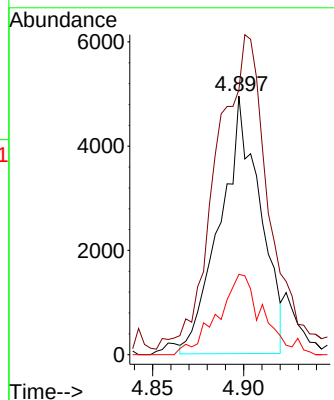
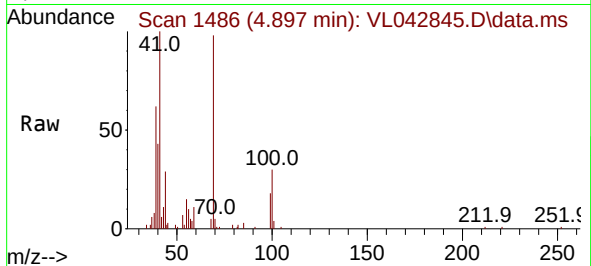




#43
Methyl Methacrylate
Concen: 0.484 ppbv
RT: 4.897 min Scan# 1486
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

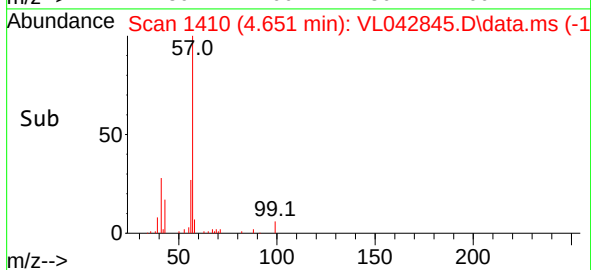
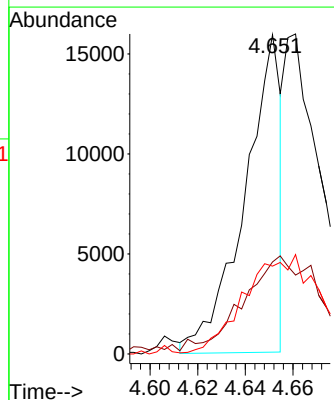
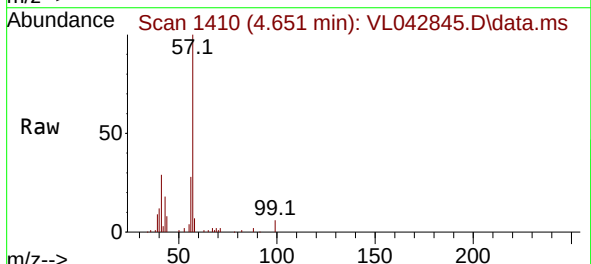
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

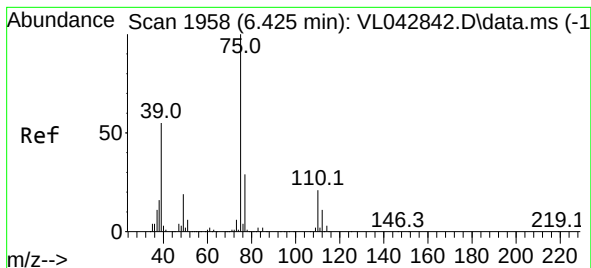
Tgt Ion: 69 Resp: 7529
Ion Ratio Lower Upper
69 100
41 158.8 114.6 172.0
100 35.6 30.2 45.4



#44
2,2,4-Trimethylpentane
Concen: 0.263 ppbv
RT: 4.651 min Scan# 1410
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 57 Resp: 16770
Ion Ratio Lower Upper
57 100
41 65.8 24.8 37.2#
56 0.0 25.5 38.3#





#45

t-1,3-Dichloropropene

Concen: 0.312 ppbv

RT: 6.435 min Scan# 1958

Delta R.T. 0.010 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

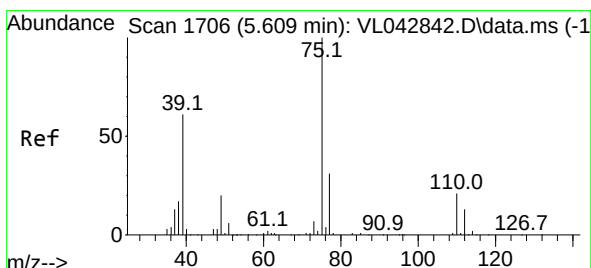
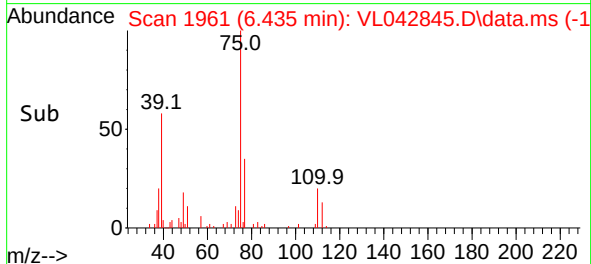
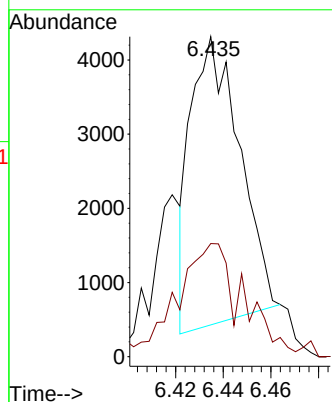
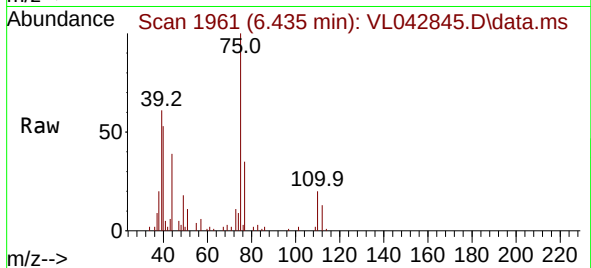
VSTDIC0.5

Tgt Ion: 75 Resp: 5507

Ion Ratio Lower Upper

75 100

77 35.4 23.8 35.6



#46

cis-1,3-Dichloropropene

Concen: 0.221 ppbv

RT: 5.613 min Scan# 1707

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

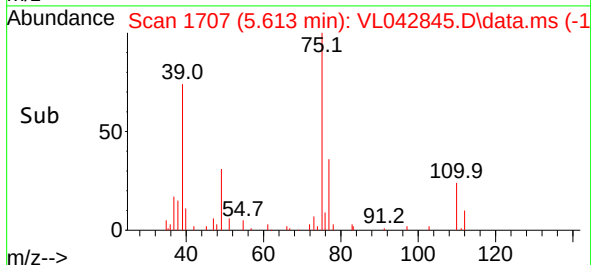
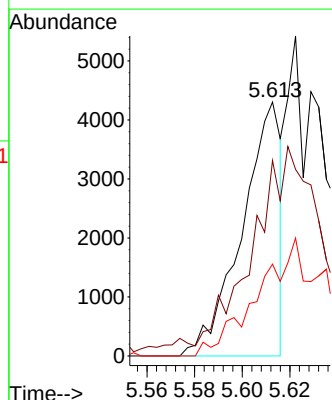
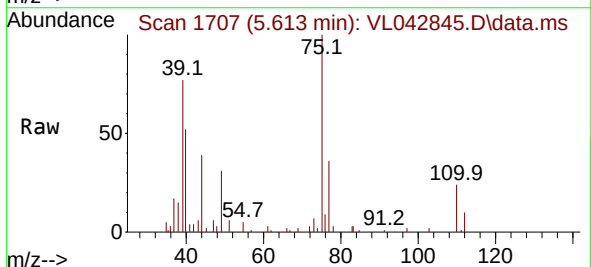
Tgt Ion: 75 Resp: 4895

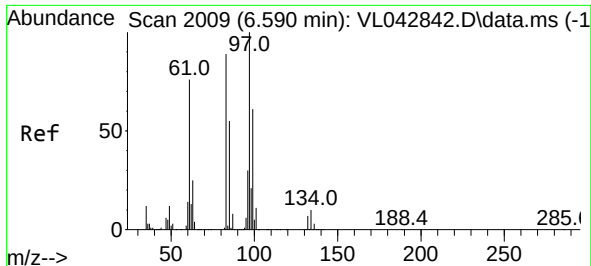
Ion Ratio Lower Upper

75 100

39 70.0 48.9 73.3

77 36.2 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 0.214 ppbv

RT: 6.597 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 3140

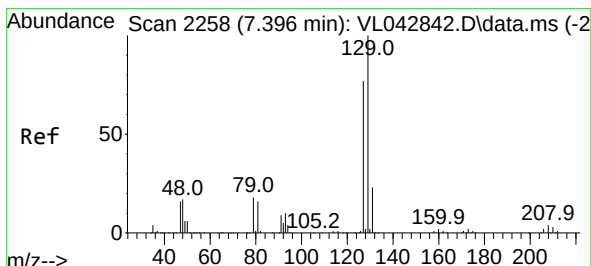
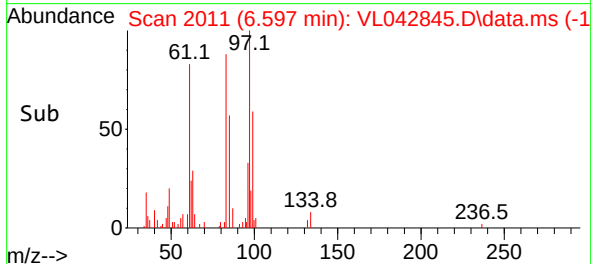
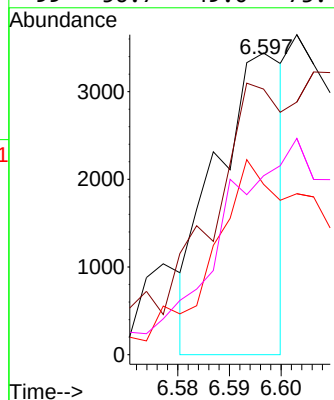
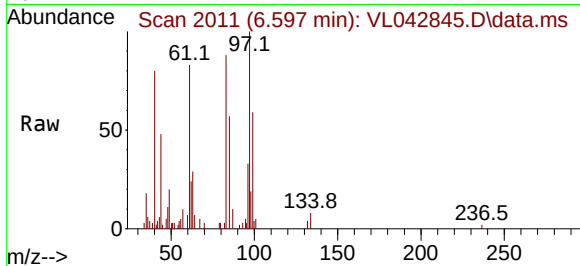
Ion Ratio Lower Upper

97 100

83 74.9 71.0 106.4

85 59.0 43.6 65.4

99 56.7 49.0 73.4



#48

Dibromochloromethane

Concen: 0.497 ppbv

RT: 7.406 min Scan# 2261

Delta R.T. 0.010 min

Lab File: VL042845.D

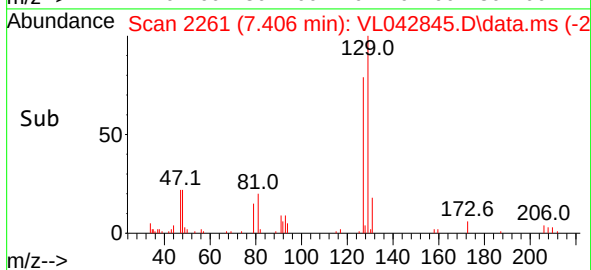
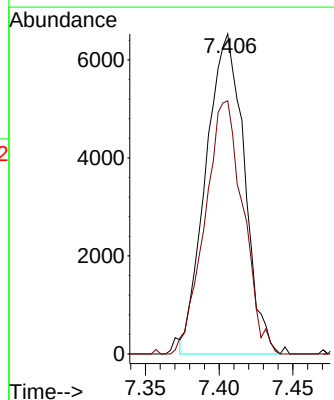
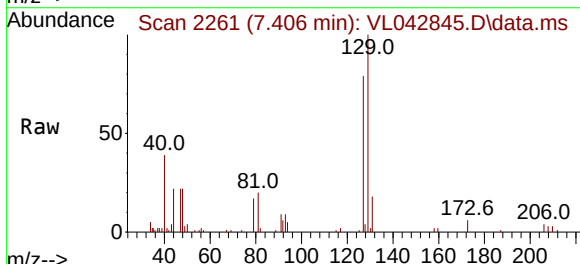
Acq: 13 Aug 2025 10:17

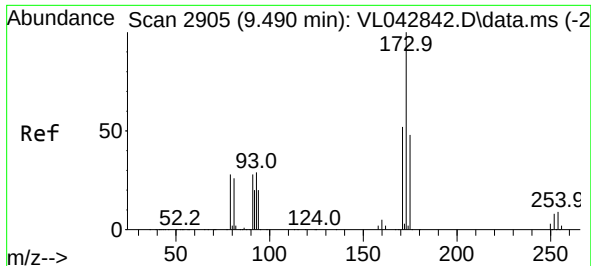
Tgt Ion: 129 Resp: 11805

Ion Ratio Lower Upper

129 100

127 79.1 39.4 118.2

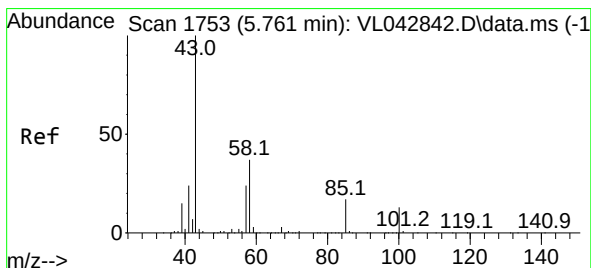
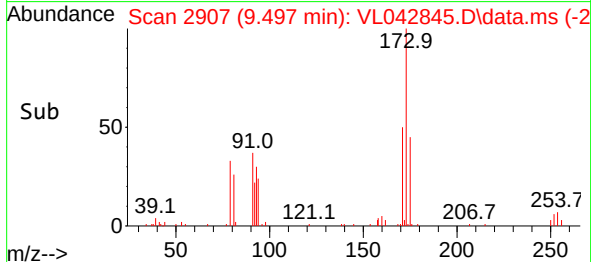
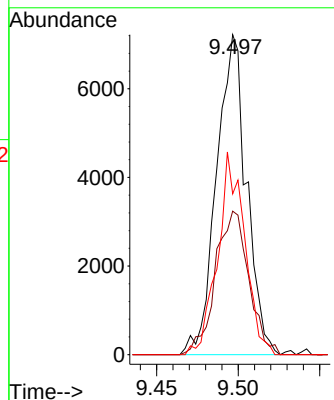
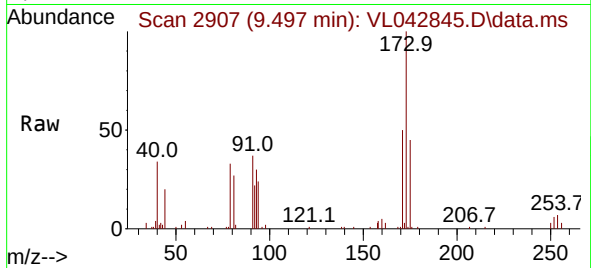




#49
Bromoform
Concen: 0.471 ppbv
RT: 9.497 min Scan# 2905
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

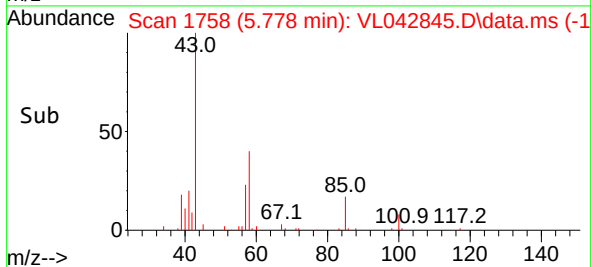
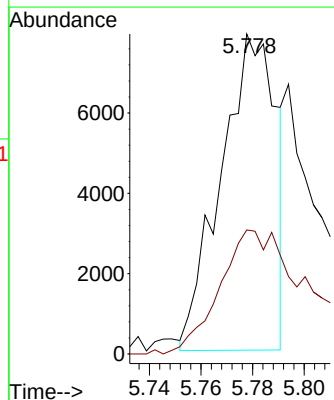
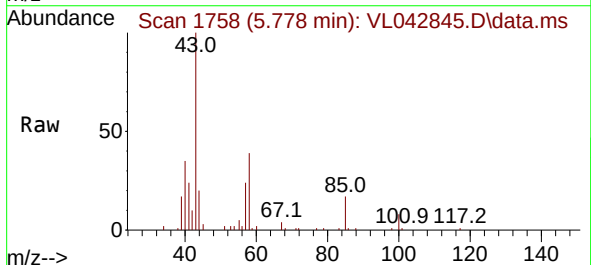
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

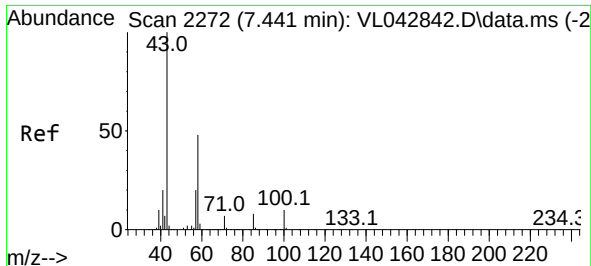
Tgt Ion:173 Resp: 9232
Ion Ratio Lower Upper
173 100
175 49.9 39.2 58.8
171 57.0 41.3 61.9



#50
4-Methyl-2-Pentanone
Concen: 0.321 ppbv
RT: 5.778 min Scan# 1758
Delta R.T. 0.016 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 43 Resp: 11657
Ion Ratio Lower Upper
43 100
58 66.0 29.8 44.8#

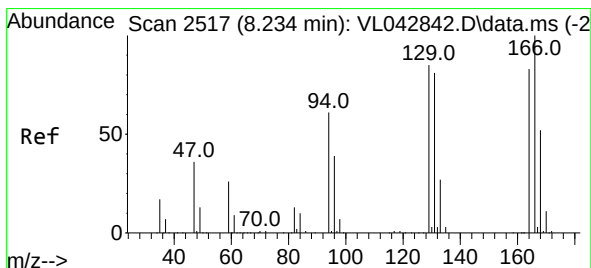
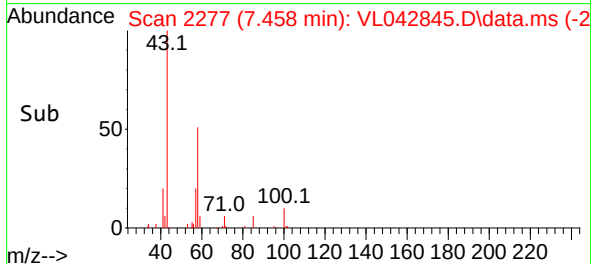
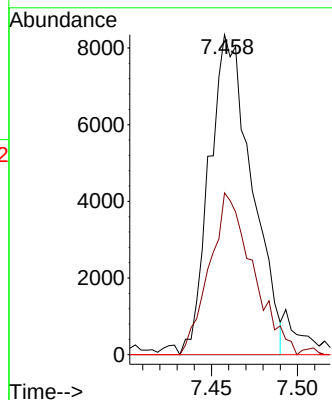
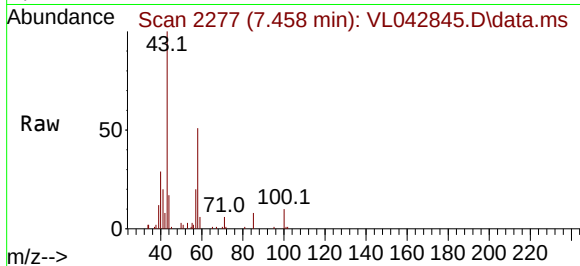




#51
2-Hexanone
Concen: 0.503 ppbv
RT: 7.458 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

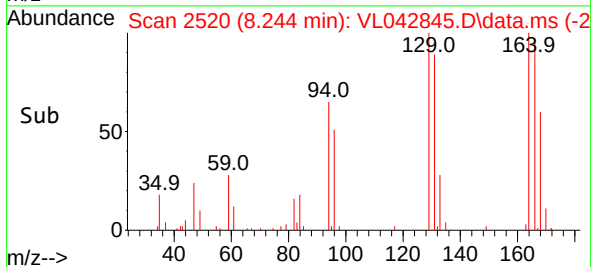
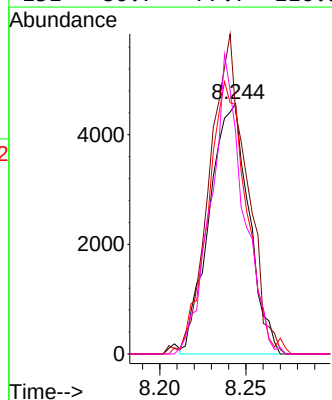
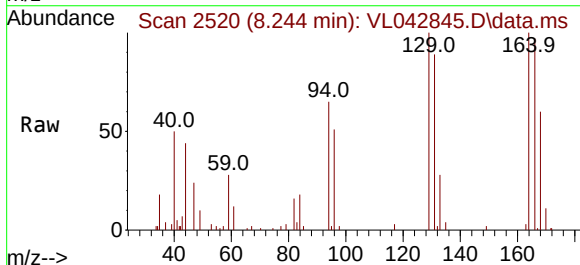
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

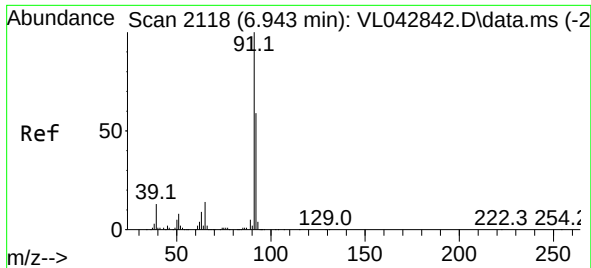
Tgt Ion: 43 Resp: 14329
Ion Ratio Lower Upper
43 100
58 52.3 41.0 61.6
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.531 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 164 Resp: 7304
Ion Ratio Lower Upper
164 100
166 95.1 96.5 144.7#
129 98.0 81.8 122.6
131 86.7 77.7 116.5

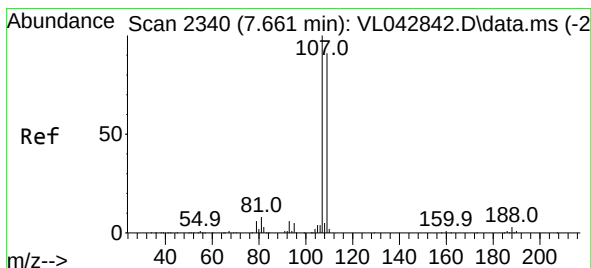
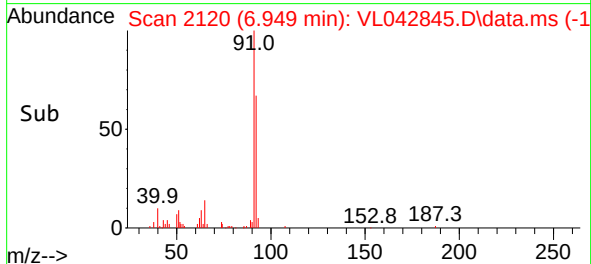
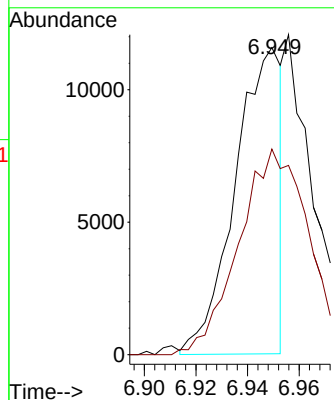
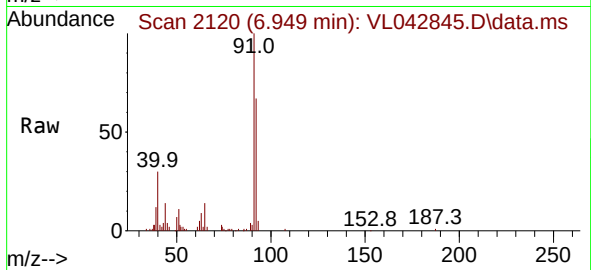




#53
Toluene
Concen: 0.318 ppbv
RT: 6.949 min Scan# 2118
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

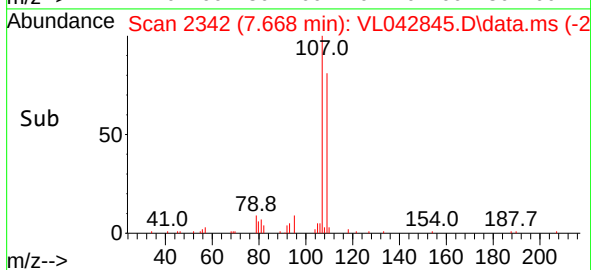
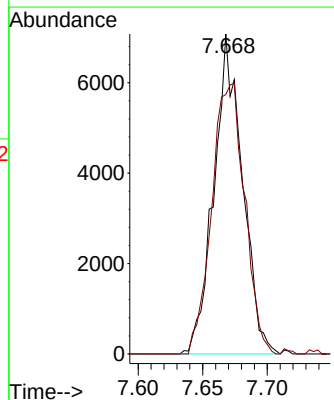
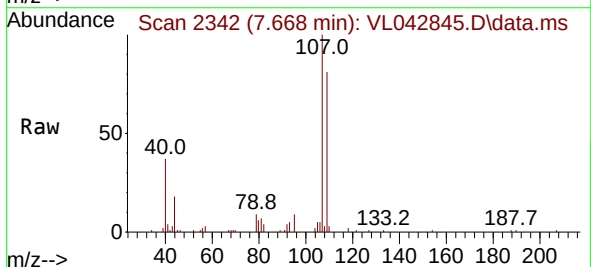
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

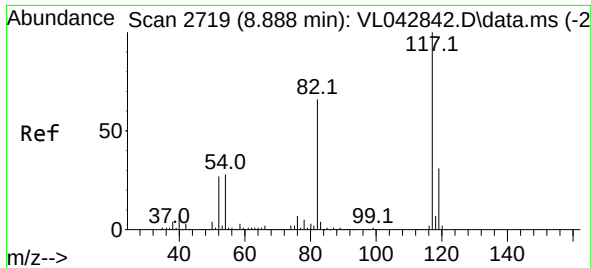
Tgt Ion: 91 Resp: 14358
Ion Ratio Lower Upper
91 100
92 104.5 47.8 71.6#



#54
1,2-Dibromoethane
Concen: 0.507 ppbv
RT: 7.668 min Scan# 2342
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 107 Resp: 10873
Ion Ratio Lower Upper
107 100
109 81.0 72.5 108.7

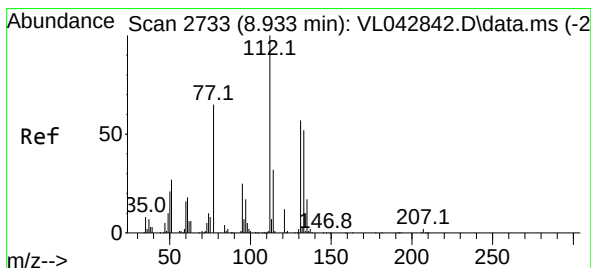
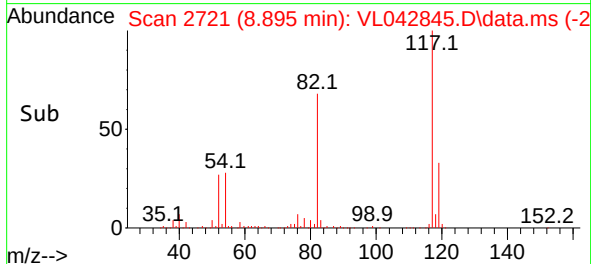
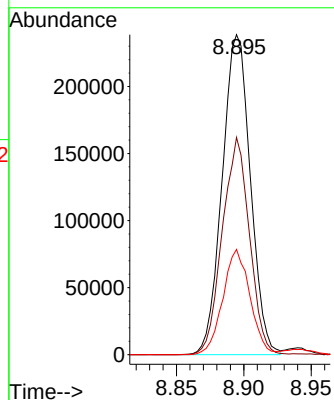
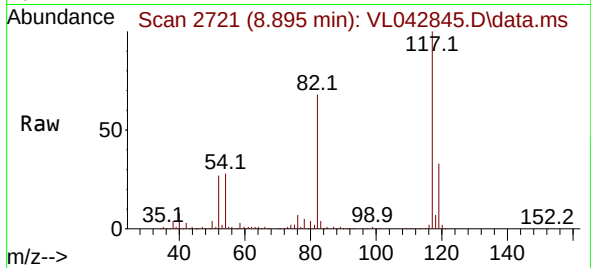




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2719
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

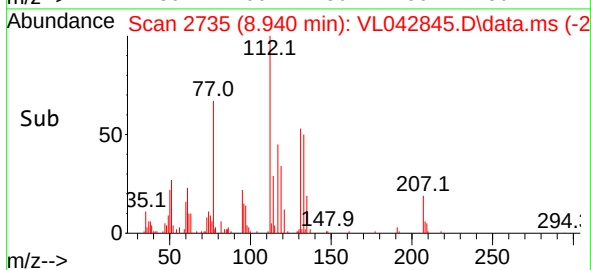
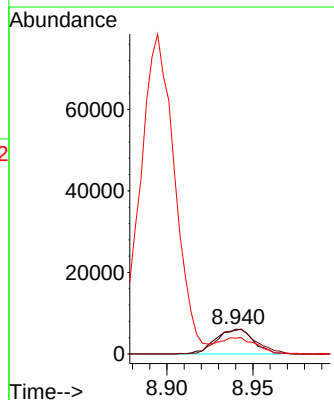
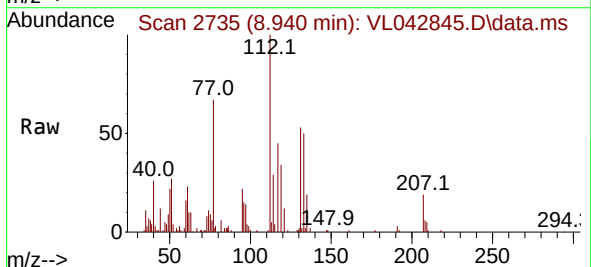
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

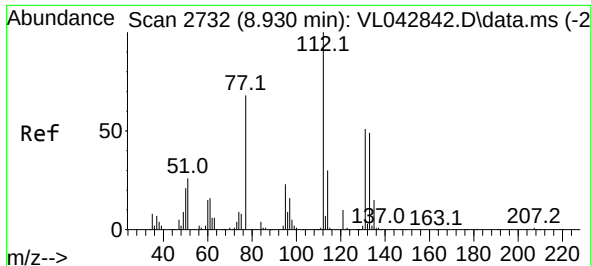
Tgt Ion:117 Resp: 348005
Ion Ratio Lower Upper
117 100
82 65.4 54.6 81.8
119 33.4 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 0.517 ppbv
RT: 8.940 min Scan# 2735
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:131 Resp: 9300
Ion Ratio Lower Upper
131 100
133 102.5 77.4 116.0
119 1250.4 51.2 76.8#

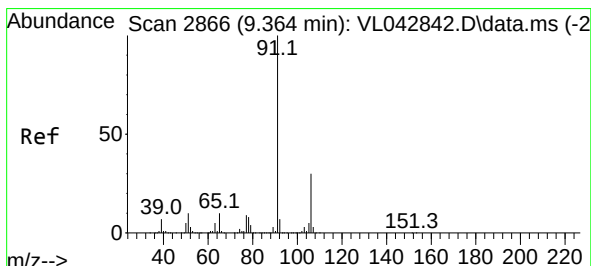
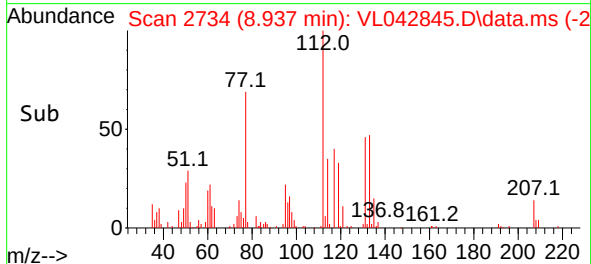
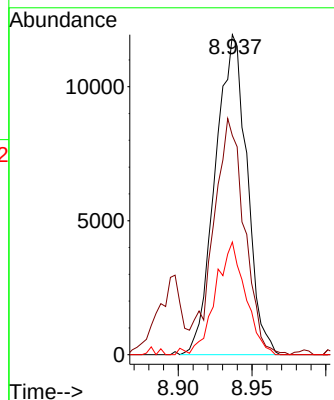
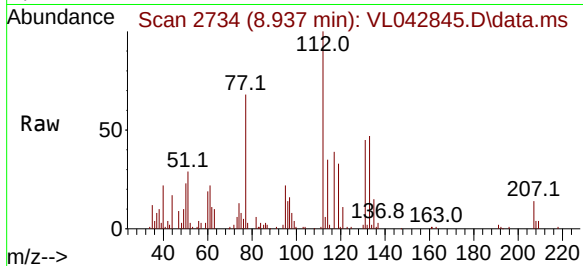




#57
Chlorobenzene
Concen: 0.539 ppbv
RT: 8.937 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

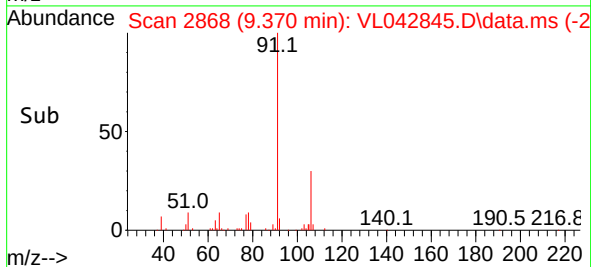
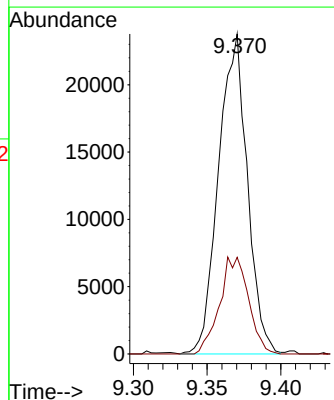
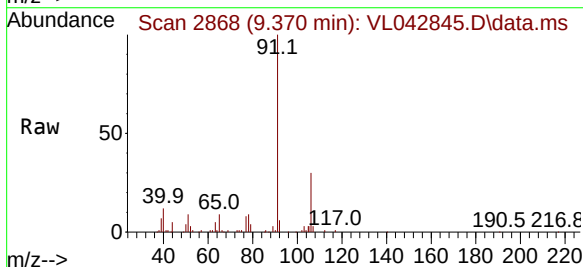
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

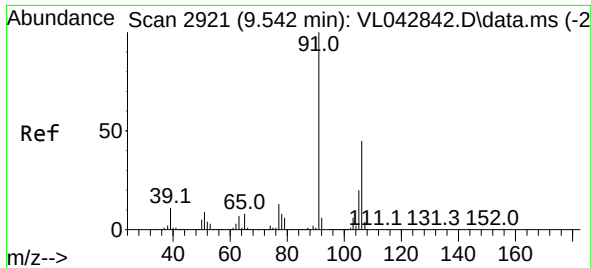
Tgt Ion:112 Resp: 17845
Ion Ratio Lower Upper
112 100
77 67.8 55.5 83.3
114 35.2 27.2 33.2#



#58
Ethyl Benzene
Concen: 0.525 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 32261
Ion Ratio Lower Upper
91 100
106 30.2 23.9 35.9

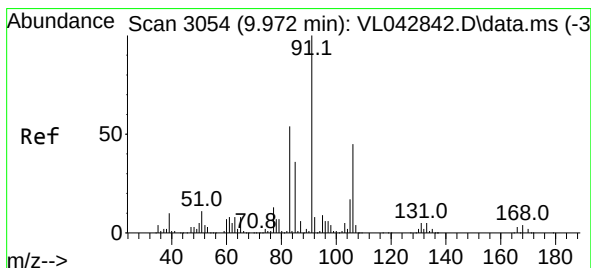
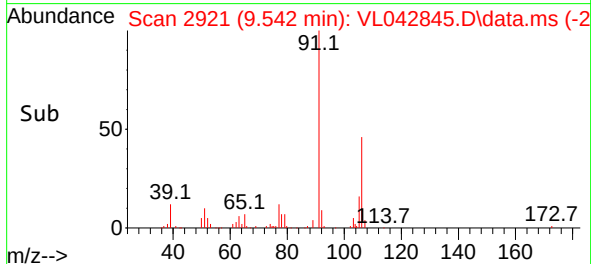
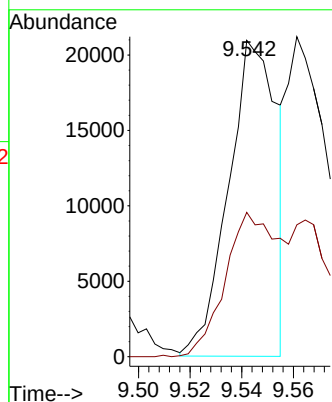
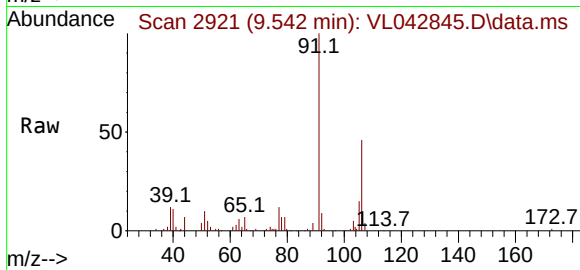




#59
m/p-Xylene
Concen: 0.561 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

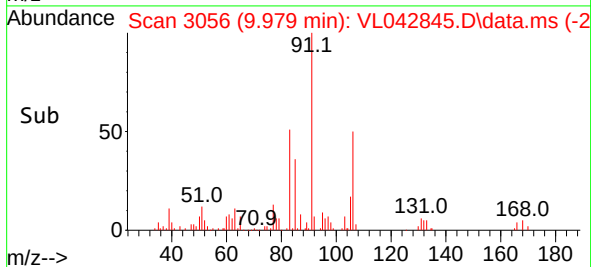
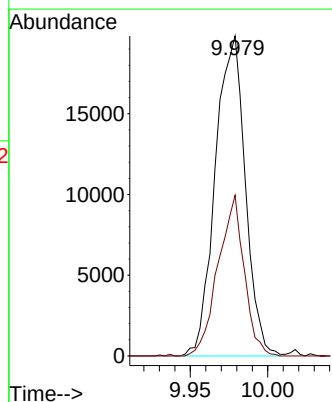
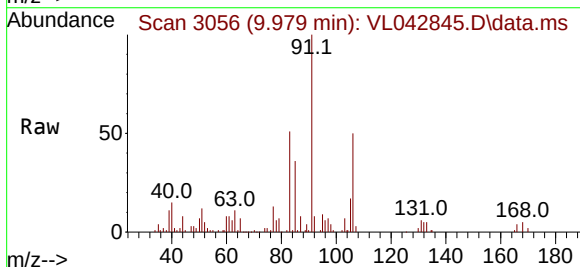
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

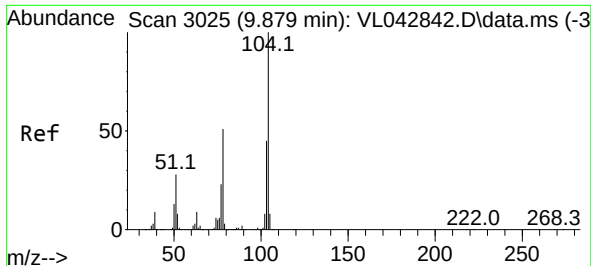
Tgt Ion: 91 Resp: 27059
Ion Ratio Lower Upper
91 100
106 87.4 0.0 0.0#



#60
o-Xylene
Concen: 0.551 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 26662
Ion Ratio Lower Upper
91 100
106 43.8 21.8 65.4

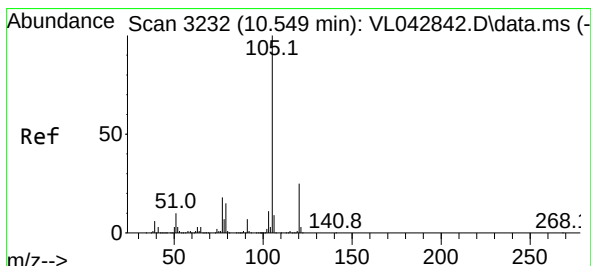
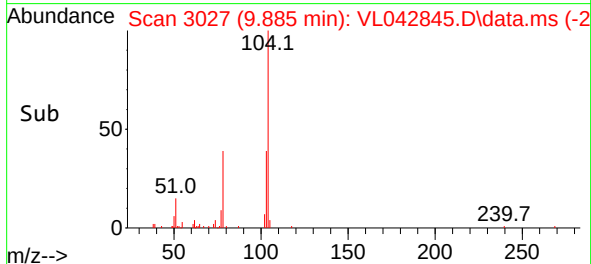
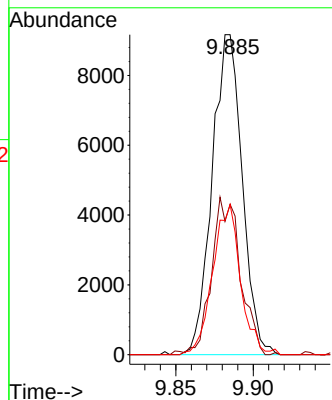
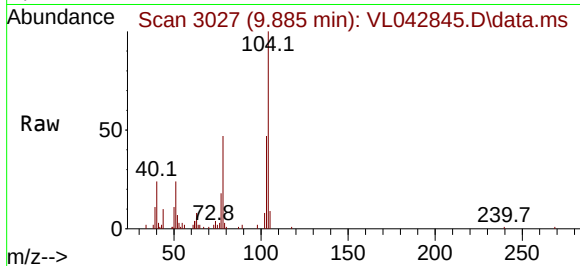




#61
Styrene
Concen: 0.546 ppbv
RT: 9.885 min Scan# 3025
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

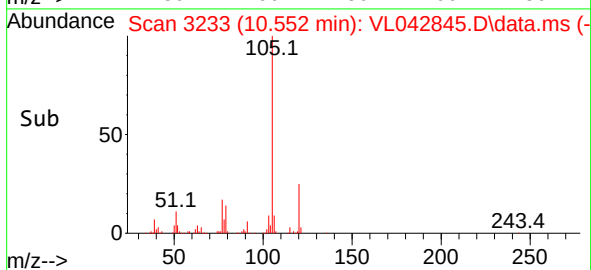
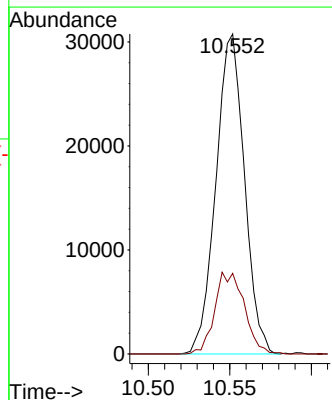
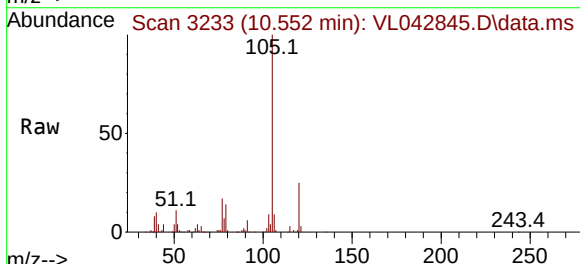
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

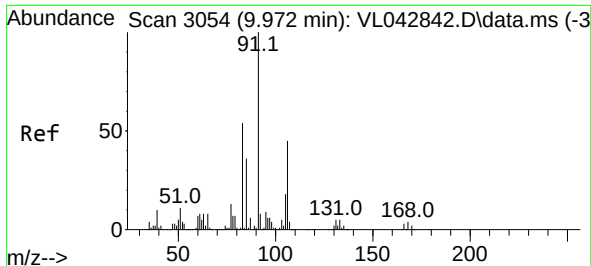
Tgt Ion:104 Resp: 12379
Ion Ratio Lower Upper
104 100
78 47.4 40.6 61.0
103 43.4 37.7 56.5



#62
Isopropylbenzene
Concen: 0.529 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:105 Resp: 37401
Ion Ratio Lower Upper
105 100
120 26.5 20.6 30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.523 ppbv

RT: 9.976 min Scan# 3054

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

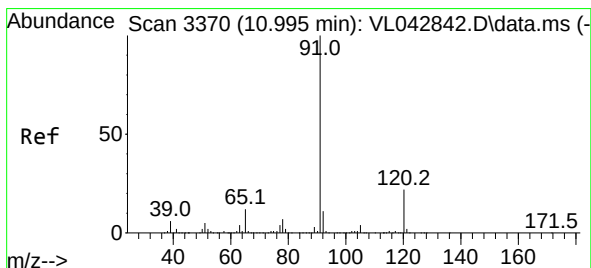
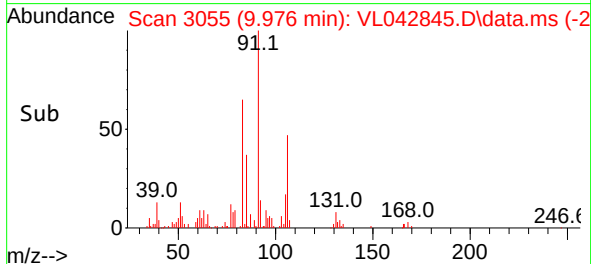
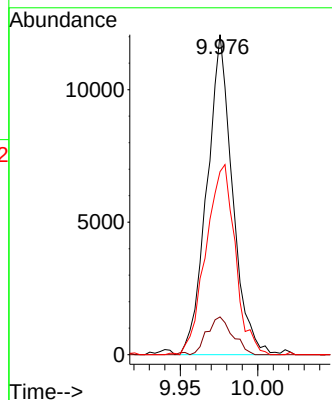
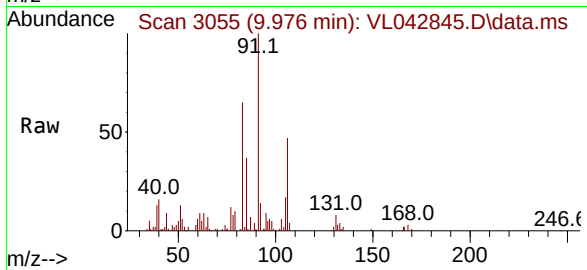
Tgt Ion: 83 Resp: 13828

Ion Ratio Lower Upper

83 100

131 12.0 4.8 14.3

85 68.3 32.3 96.8



#64

n-propylbenzene

Concen: 0.550 ppbv

RT: 10.998 min Scan# 3371

Delta R.T. 0.003 min

Lab File: VL042845.D

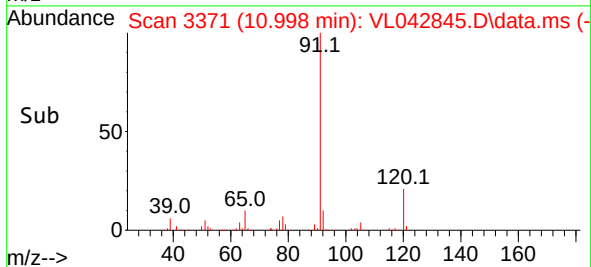
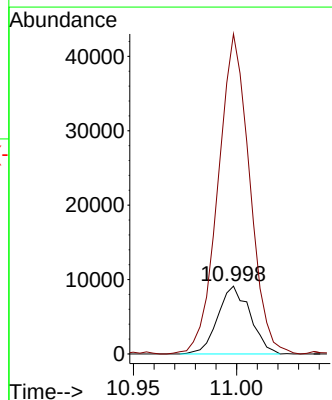
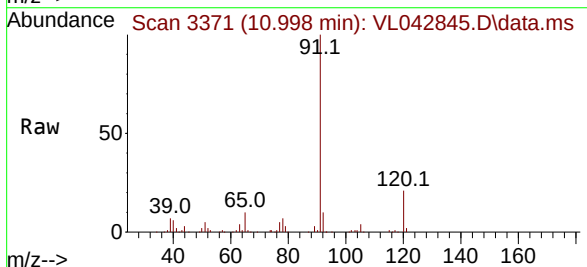
Acq: 13 Aug 2025 10:17

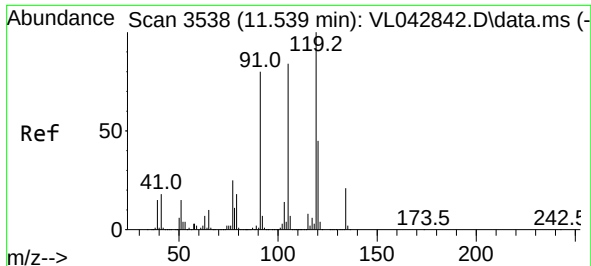
Tgt Ion: 120 Resp: 9922

Ion Ratio Lower Upper

120 100

91 463.3 375.8 563.6

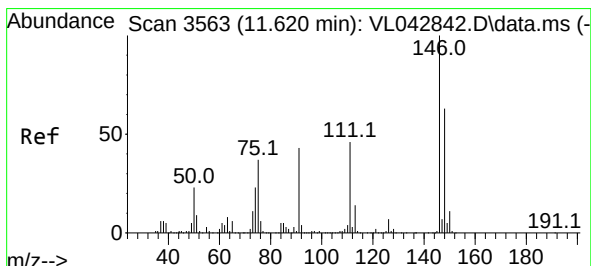
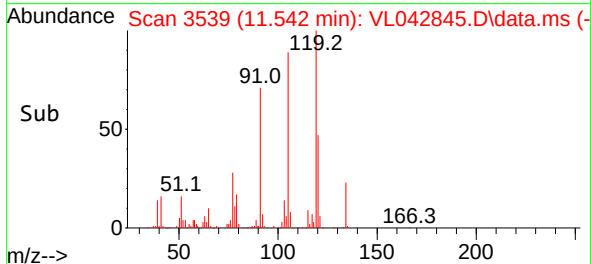
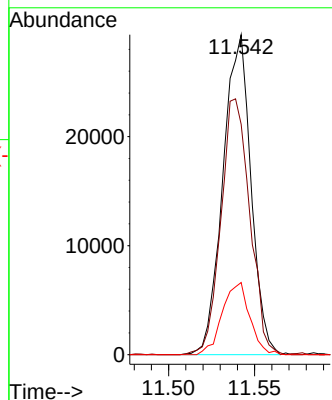
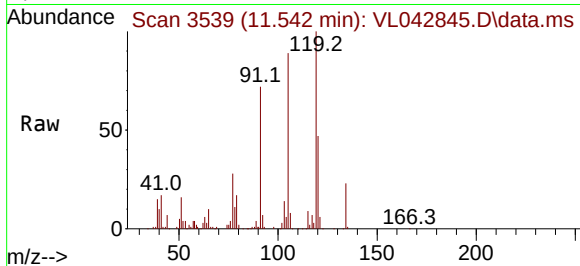




#65
tert-Butylbenzene
Concen: 0.532 ppbv
RT: 11.542 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

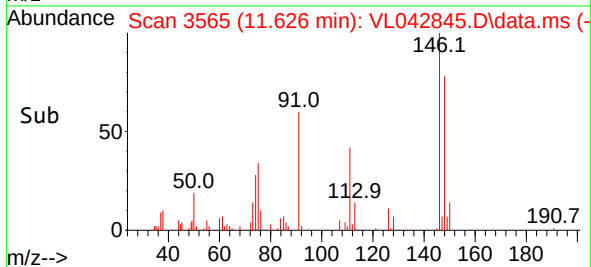
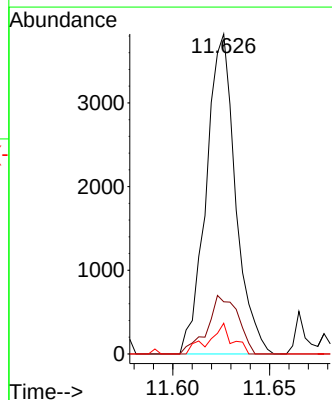
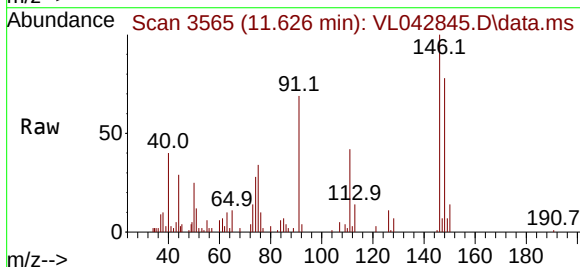
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

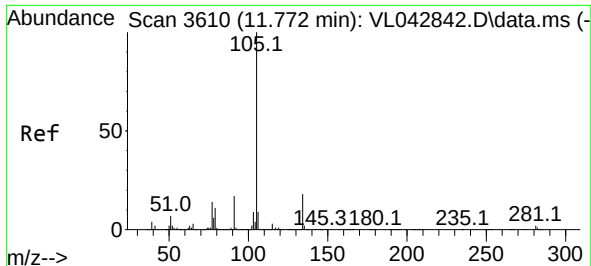
Tgt Ion:119 Resp: 33183
Ion Ratio Lower Upper
119 100
91 82.8 63.9 95.9
134 22.1 17.0 25.4



#66
Benzyl Chloride
Concen: 0.510 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 4039
Ion Ratio Lower Upper
91 100
126 19.0 14.2 21.4
128 7.6 5.0 7.6#





#67

sec-Butylbenzene

Concen: 0.530 ppbv

RT: 11.778 min Scan# 3610

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

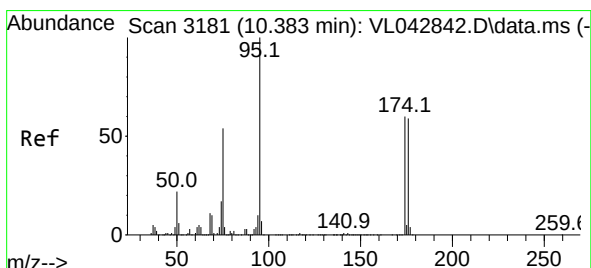
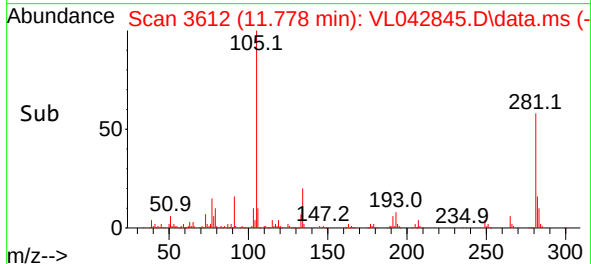
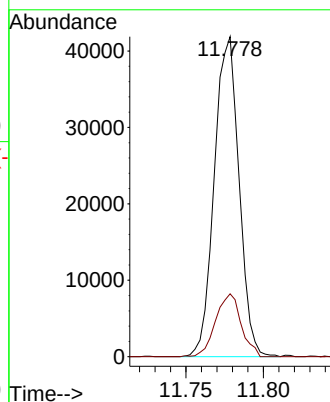
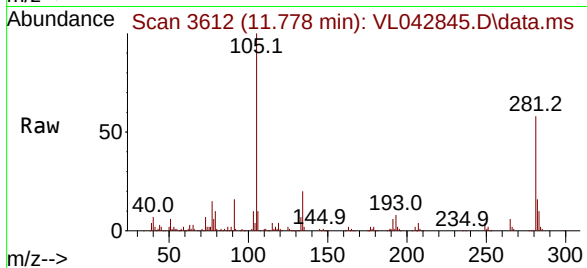
VSTDIC0.5

Tgt Ion:105 Resp: 46433

Ion Ratio Lower Upper

105 100

134 20.3 14.9 22.3



#68

1-Bromo-4-Fluorobenzene

Concen: 10.064 ppbv

RT: 10.387 min Scan# 3182

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

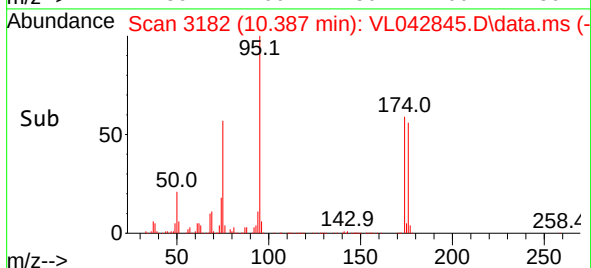
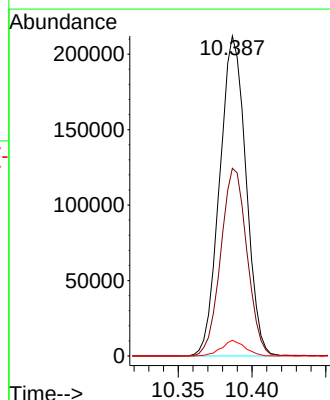
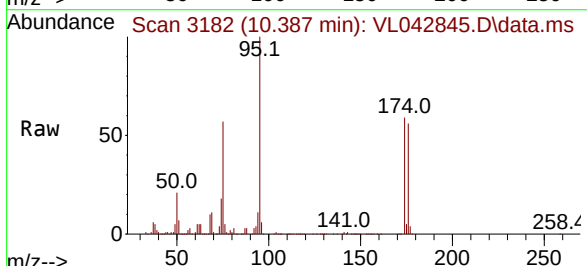
Tgt Ion: 95 Resp: 262663

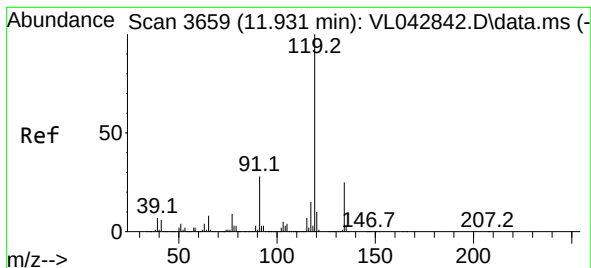
Ion Ratio Lower Upper

95 100

174 58.8 48.4 72.6

175 4.4 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.541 ppbv

RT: 11.934 min Scan# 3659

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

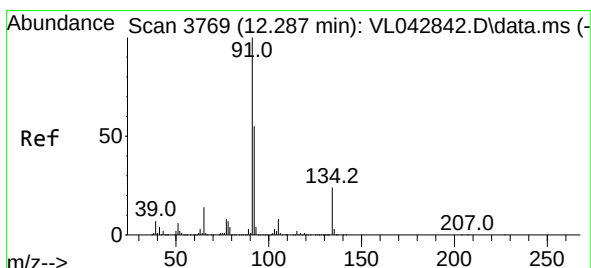
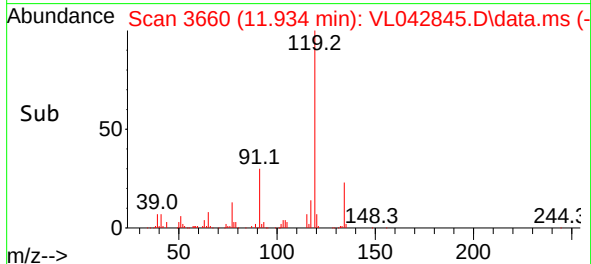
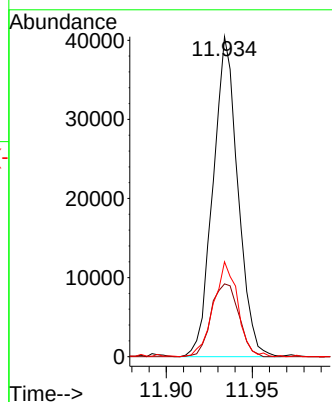
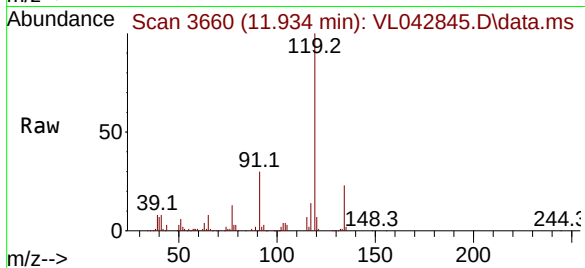
Tgt Ion:119 Resp: 40686

Ion Ratio Lower Upper

119 100

134 25.4 20.6 30.8

91 29.0 22.6 34.0



#70

n-Butylbenzene

Concen: 0.521 ppbv

RT: 12.290 min Scan# 3770

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

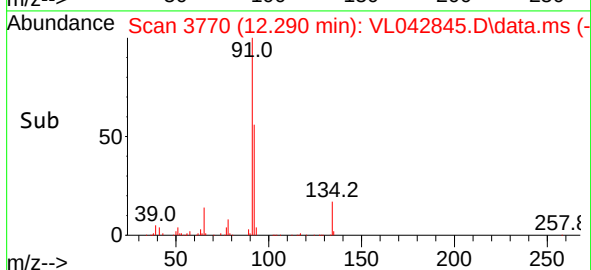
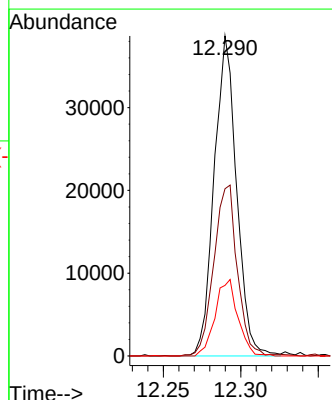
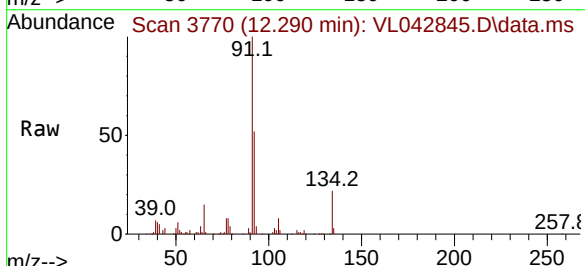
Tgt Ion: 91 Resp: 38867

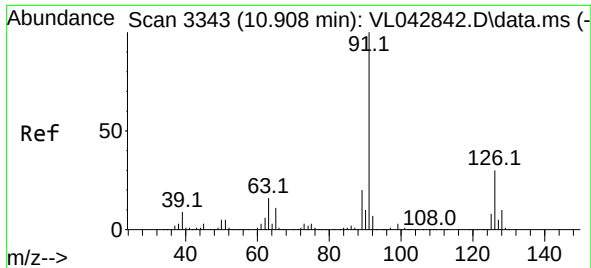
Ion Ratio Lower Upper

91 100

92 56.1 44.6 66.8

134 24.2 19.0 28.4

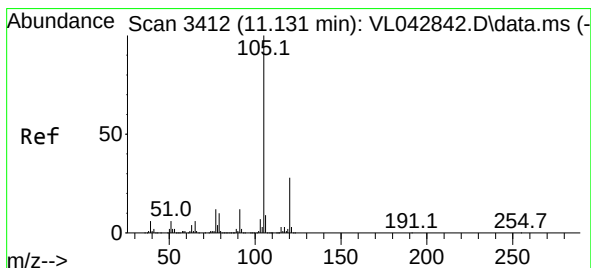
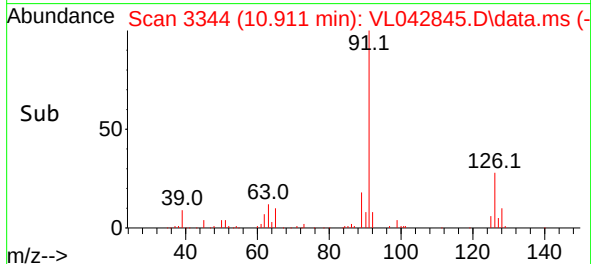
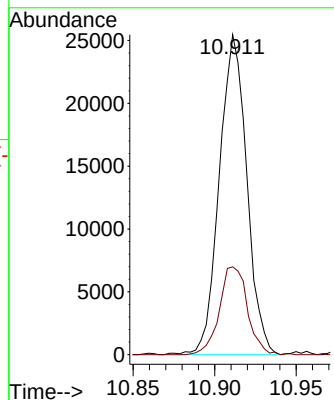
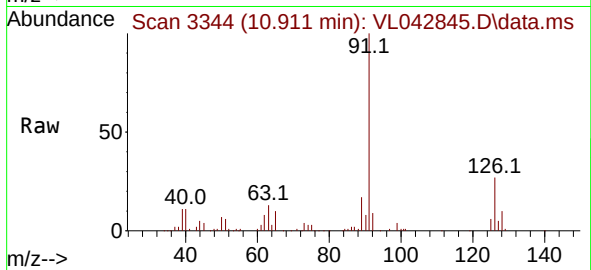




#71
2-Chlorotoluene
Concen: 0.541 ppbv
RT: 10.911 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

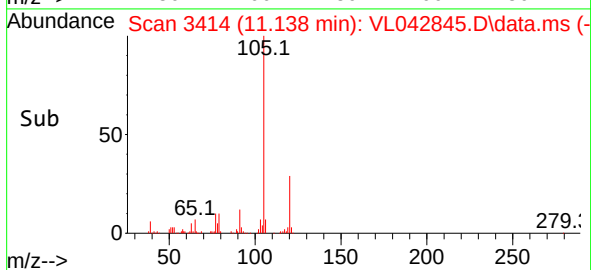
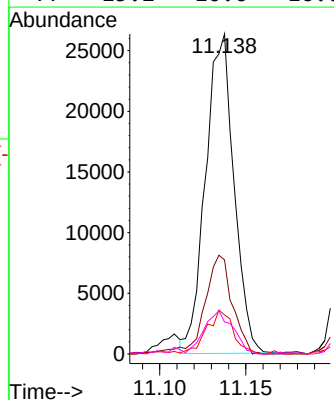
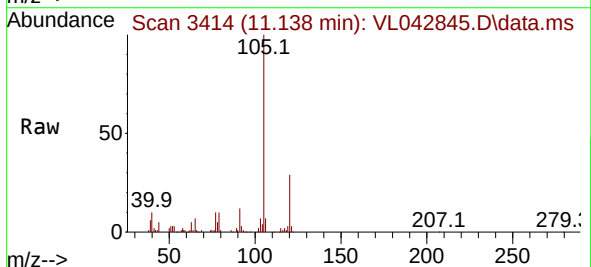
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

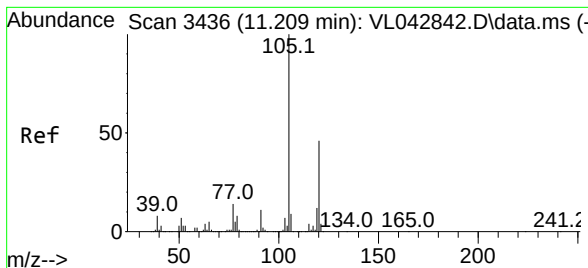
Tgt Ion: 91 Resp: 29736
Ion Ratio Lower Upper
91 100
126 28.2 12.0 47.8



#72
4-Ethyltoluene
Concen: 0.515 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 105 Resp: 30234
Ion Ratio Lower Upper
105 100
120 30.5 23.4 35.2
91 13.8 9.8 14.6
77 15.2 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 0.540 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

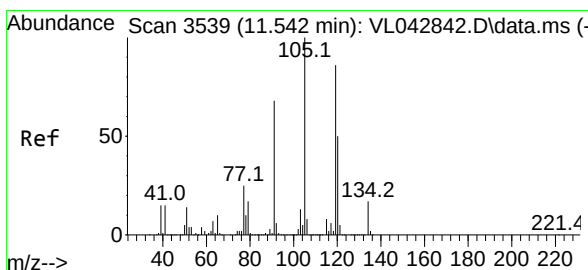
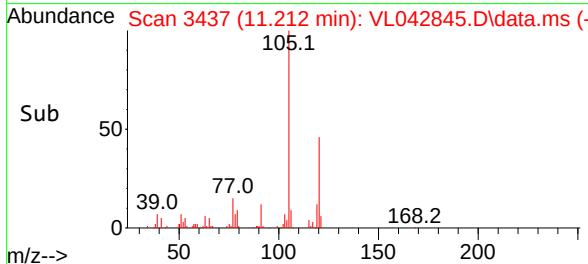
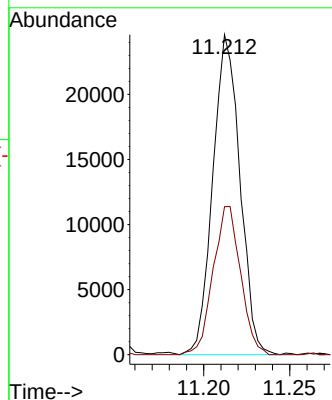
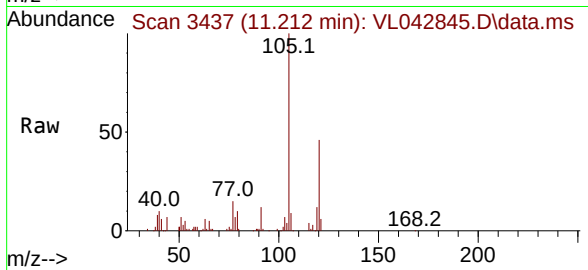
VSTDIC0.5

Tgt Ion:105 Resp: 26942

Ion Ratio Lower Upper

105 100

120 46.2 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 0.543 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Tgt Ion:105 Resp: 29750

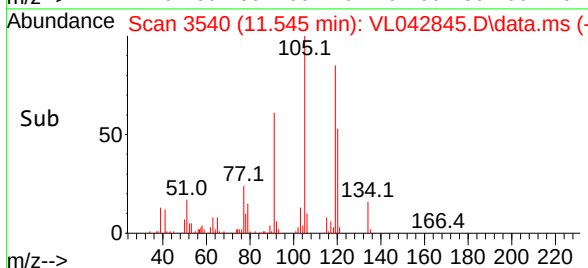
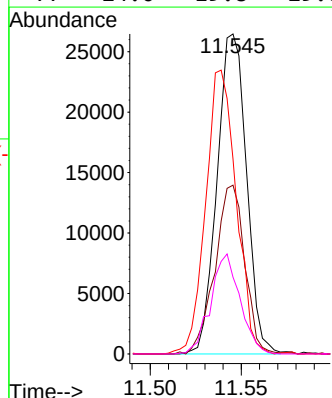
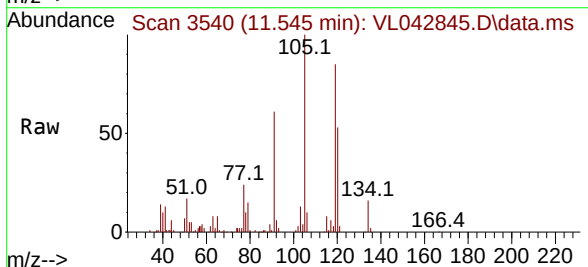
Ion Ratio Lower Upper

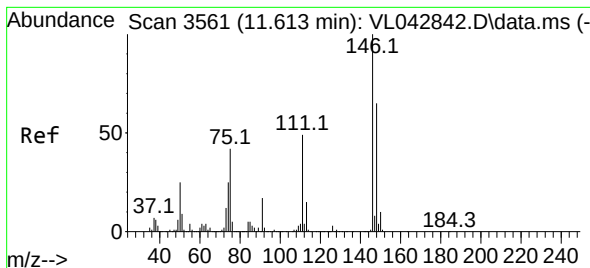
105 100

120 52.4 39.8 59.6

91 60.6 54.2 81.4

77 24.0 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 0.524 ppbv

RT: 11.617 min Scan# 3561

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

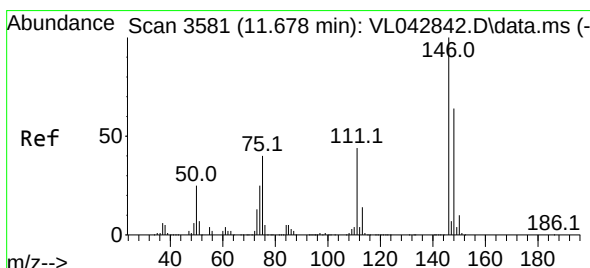
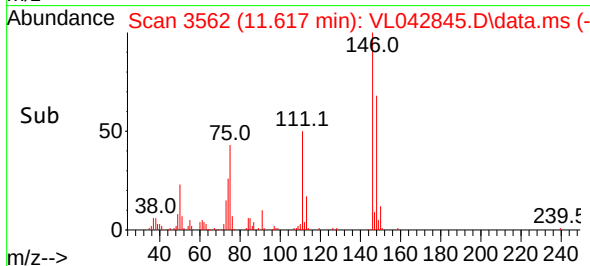
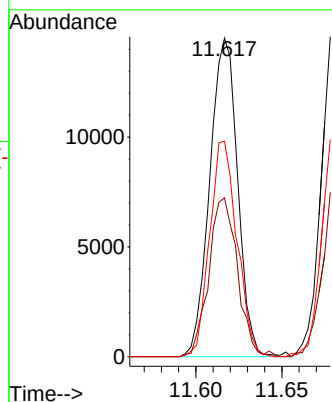
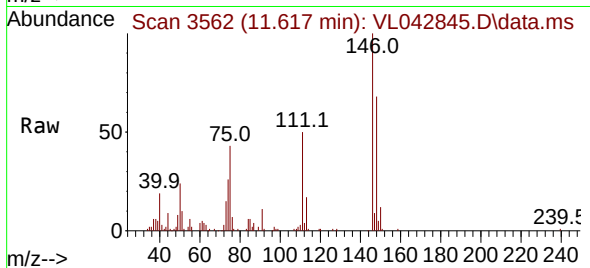
Tgt Ion:146 Resp: 16311

Ion Ratio Lower Upper

146 100

111 51.2 23.9 71.7

148 66.5 31.4 94.0



#76

1,4-Dichlorobenzene

Concen: 0.533 ppbv

RT: 11.681 min Scan# 3582

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

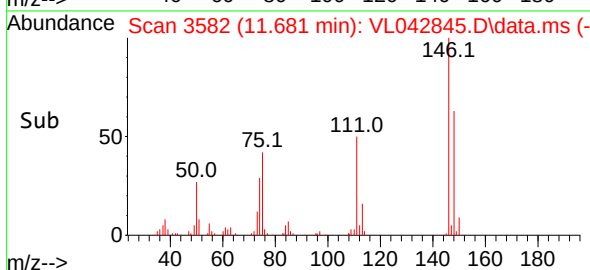
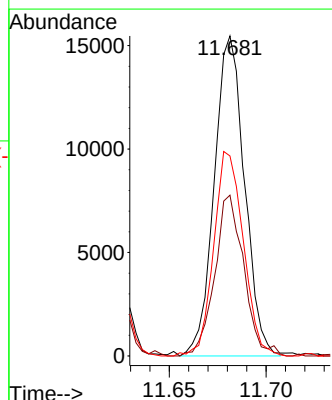
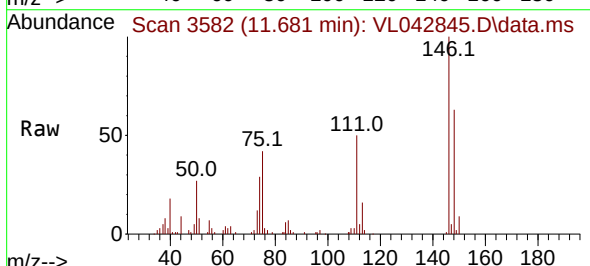
Tgt Ion:146 Resp: 16803

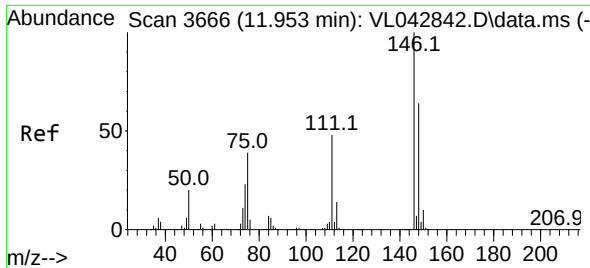
Ion Ratio Lower Upper

146 100

111 48.3 22.7 68.1

148 62.7 31.8 95.3

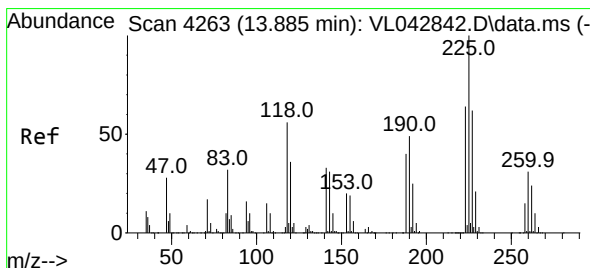
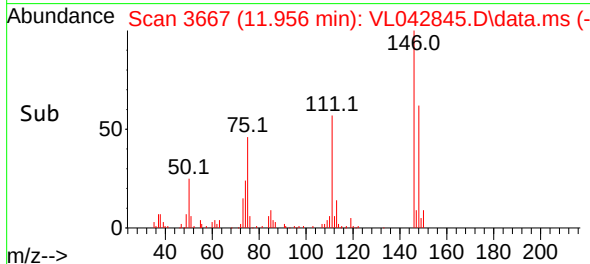
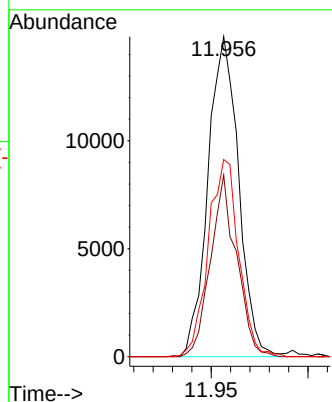
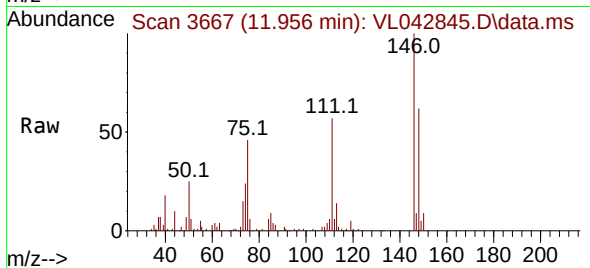




#77
1,2-Dichlorobenzene
Concen: 0.535 ppbv
RT: 11.956 min Scan# 3667
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

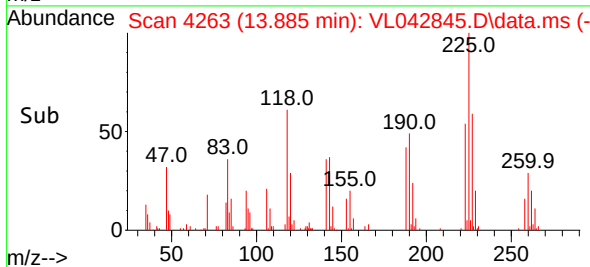
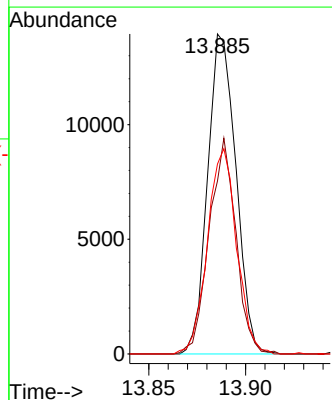
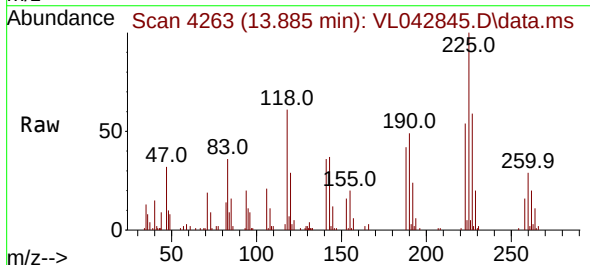
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

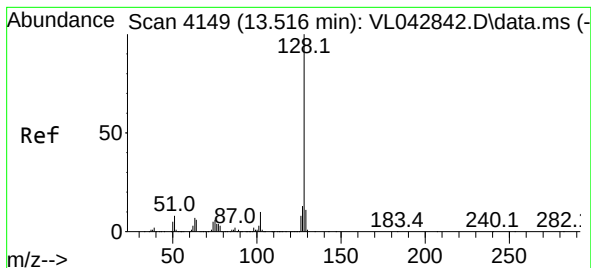
Tgt Ion:146	Resp:	16306
Ion Ratio	Lower	Upper
146	100	
111	48.2	24.6 74.0
148	61.1	32.0 96.0



#78
Hexachloro-1,3-Butadiene
Concen: 0.567 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:225	Resp:	14165
Ion Ratio	Lower	Upper
225	100	
223	63.7	51.4 77.2
227	66.2	51.9 77.9





#79

Naphthalene

Concen: 0.491 ppbv

RT: 13.520 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

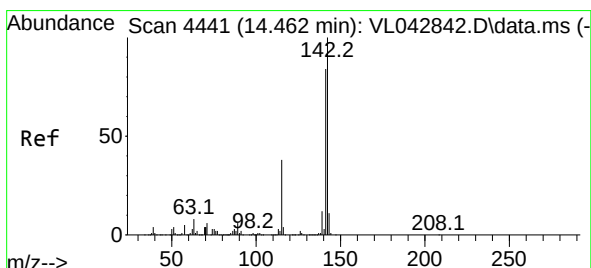
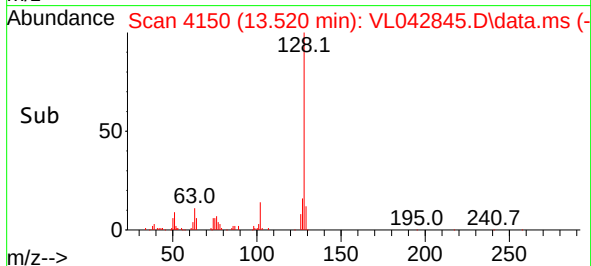
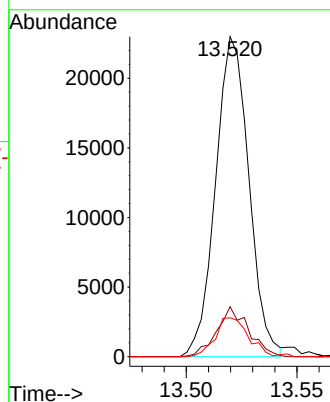
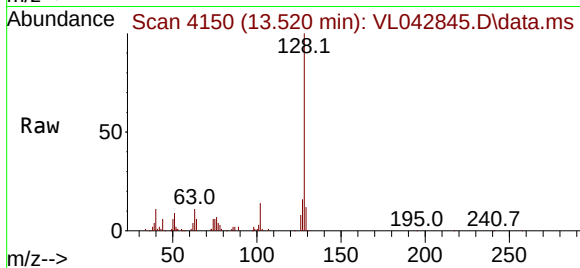
Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

Tgt Ion:	128	Resp:	24056
Ion Ratio	Lower	Upper	
128	100		
127	15.6	10.6	16.0
129	12.2	8.9	13.3



#80

Naphthalene, 2-methyl-

Concen: 0.405 ppbv

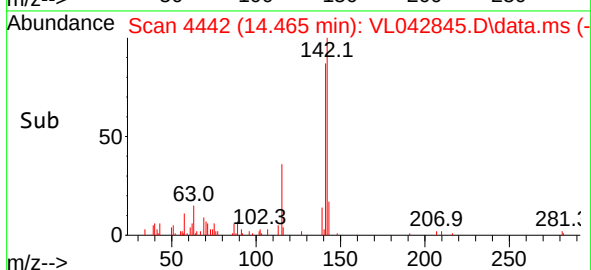
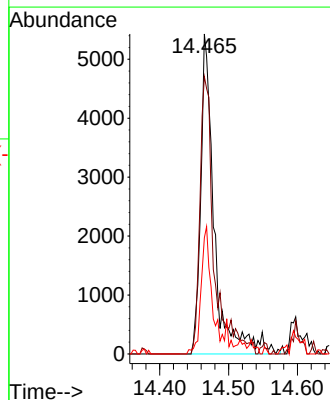
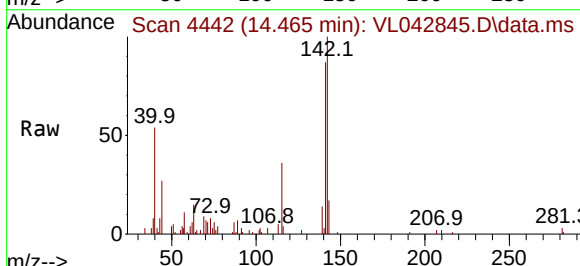
RT: 14.465 min Scan# 4442

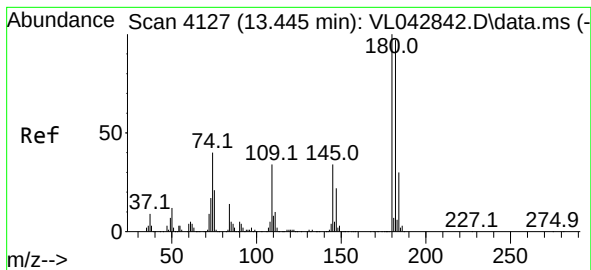
Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Tgt Ion:	142	Resp:	7482
Ion Ratio	Lower	Upper	
142	100		
141	90.9	67.0	100.6
115	38.5	30.9	46.3





#81

1,2,4-Trichlorobenzene

Concen: 0.434 ppbv

RT: 13.449 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042845.D

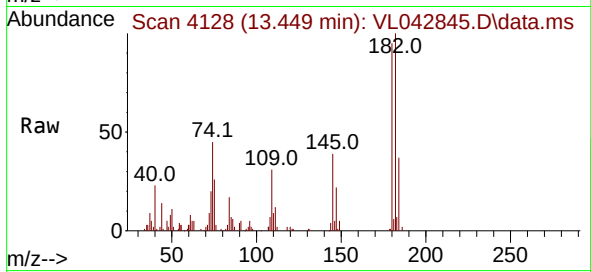
Acq: 13 Aug 2025 10:17

Instrument :

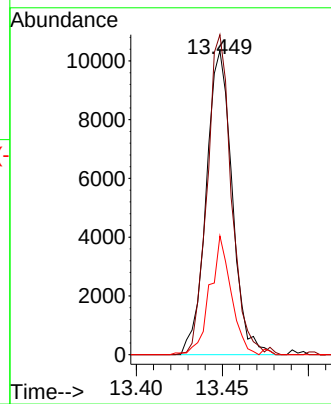
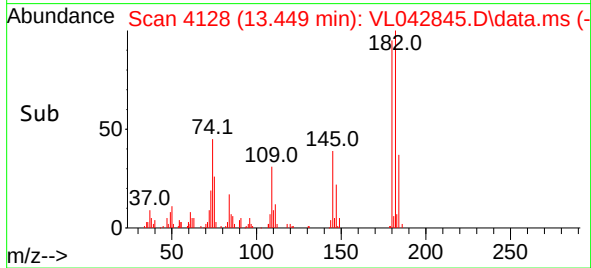
MSVOA_L

ClientSampleId :

VSTDICC0.5



Tgt Ion:	180	Resp:	10844
Ion	Ratio	Lower	Upper
180	100		
182	99.1	76.9	115.3
184	32.6	24.5	36.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042846.D
 Acq On : 13 Aug 2025 10:53
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

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 26 06:05:16 2022
 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
2) Dichlorodifluoromethane	1.499	85	1967	0.108	ppbv	89
3) Chlorodifluoromethane	1.479	51	2553	0.127	ppbv	100
4) Chloromethane	1.538	50	1167	0.160	ppbv #	72
5) Vinyl Chloride	1.583	62	790	0.110	ppbv #	86
6) Bromomethane	1.674	94	414	0.144	ppbv #	32
7) Chloroethane	1.709	64	272	0.097	ppbv #	23
8) Dichlorotetrafluoroethane	1.557	85	1898	0.128	ppbv	92
9) Propene	1.486	41	1233	0.142	ppbv #	1
10) Heptane	4.991	43	560	0.024	ppbv #	1
11) Trichlorofluoromethane	1.557	101	307	0.017	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	1758	0.123	ppbv	93
13) Ethanol	1.890	45	1584	1.847	ppbv	80
14) Bromoethene	1.787	108	602	0.117	ppbv #	30
15) Acetone	1.839	43	3411	0.208	ppbv #	72
16) 1,3-Butadiene	1.612	39	795	0.107	ppbv #	16
17) tert-Butyl alcohol	2.046	59	2697	0.139	ppbv #	64
18) 1,1-Dichloroethene	2.039	96	964	0.154	ppbv	92
19) Isopropyl Alcohol	1.890	45	1584	0.162	ppbv #	76
20) Methylene Chloride	2.065	84	2577	0.376	ppbv	92
21) Allyl Chloride	2.098	41	2198	0.190	ppbv #	67
22) trans-1,2-Dichloroethene	2.039	96	964	0.138	ppbv	86
23) Vinyl Acetate	2.463	43	3002	0.139	ppbv #	69
24) 1,1-Dichloroethane	2.415	63	1879	0.130	ppbv #	95
25) Ethyl Acetate	2.836	43	1206	0.030	ppbv #	74
26) Hexane	2.836	57	2223	0.122	ppbv #	3
27) Carbon Disulfide	2.156	76	965	0.054	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	1300	0.139	ppbv #	1
29) Chloroform	2.855	83	2962	0.113	ppbv	98
30) Cyclohexane	3.865	84	835	0.052	ppbv #	1
31) cis-1,2-Dichloroethene	2.725	61	1839	0.101	ppbv #	86
32) 1,1,1-Trichloroethane	3.373	97	2627	0.095	ppbv	86
34) 2-Butanone	2.564	43	2970	0.113	ppbv	93
35) Carbon Tetrachloride	3.774	117	2883	0.107	ppbv	89
36) Benzene	3.661	78	2430	0.065	ppbv	97
37) 1,2-Dichloroethane	3.230	62	576	0.029	ppbv #	47
38) Trichloroethene	4.557	130	624	0.037	ppbv #	79
39) 1,2-Dichloropropane	3.962	63	96098	7.036	ppbv #	26
40) 1,4-Dioxane	4.625	88	693	0.108	ppbv #	17
41) Tetrahydrofuran	3.049	42	78	0.005	ppbv #	36
42) Bromodichloromethane	4.489	83	756	0.026	ppbv #	27
43) Methyl Methacrylate	4.894	69	1289	0.084	ppbv #	61
44) 2,2,4-Trimethylpentane	4.645	57	2178	0.035	ppbv #	1
45) t-1,3-Dichloropropene	6.415	75	486	0.028	ppbv	94

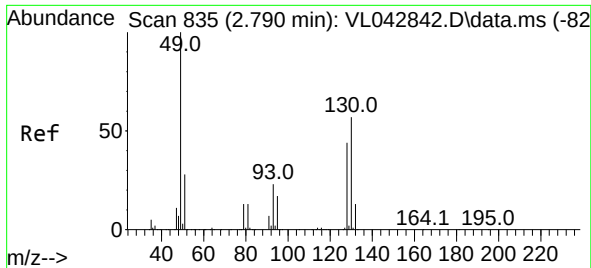
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 Acq On : 13 Aug 2025 10:53
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

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 26 06:05:16 2022
 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	1454	0.067	ppbv #	85
47) 1,1,2-Trichloroethane	6.580	97	260	0.018	ppbv #	20
48) Dibromochloromethane	7.399	129	2052	0.088	ppbv	74
49) Bromoform	9.487	173	1909	0.099	ppbv	91
50) 4-Methyl-2-Pentanone	5.758	43	266	0.007	ppbv #	38
51) 2-Hexanone	7.432	43	57	0.002	ppbv #	27
52) Tetrachloroethene	8.228	164	425	0.031	ppbv #	56
53) Toluene	6.940	91	1918	0.043	ppbv #	21
54) 1,2-Dibromoethane	7.658	107	828	0.039	ppbv #	72
56) 1,1,1,2-Tetrachloroethane	8.937	131	573	0.032	ppbv #	1
57) Chlorobenzene	8.933	112	3936	0.120	ppbv #	92
58) Ethyl Benzene	9.361	91	6413	0.105	ppbv	97
59) m/p-Xylene	9.539	91	4356	0.091	ppbv #	100
60) o-Xylene	9.972	91	5090	0.106	ppbv	91
61) Styrene	9.882	104	2306	0.103	ppbv	98
62) Isopropylbenzene	10.545	105	7444	0.106	ppbv	94
63) 1,1,2,2-Tetrachloroethane	9.972	83	2672	0.102	ppbv	99
64) n-propylbenzene	10.995	120	1372	0.077	ppbv #	36
65) tert-Butylbenzene	11.532	119	6442	0.104	ppbv	88
66) Benzyl Chloride	11.620	91	276	0.035	ppbv #	65
67) sec-Butylbenzene	11.772	105	9332	0.107	ppbv #	91
69) p-Isopropyltoluene	11.934	119	7360	0.099	ppbv #	93
70) n-Butylbenzene	12.290	91	6458	0.087	ppbv	95
71) 2-Chlorotoluene	10.908	91	5660	0.104	ppbv	100
72) 4-Ethyltoluene	11.131	105	5621	0.097	ppbv #	88
73) 1,3,5-Trimethylbenzene	11.212	105	5297	0.107	ppbv	93
74) 1,2,4-Trimethylbenzene	11.542	105	5786	0.106	ppbv #	83
75) 1,3-Dichlorobenzene	11.617	146	3112	0.101	ppbv	93
76) 1,4-Dichlorobenzene	11.675	146	2717	0.087	ppbv	92
77) 1,2-Dichlorobenzene	11.953	146	3151	0.104	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	2639	0.106	ppbv	95
79) Naphthalene	13.520	128	3670	0.075	ppbv #	94
80) Naphthalene,2-methyl-	14.471	142	682	0.037	ppbv #	82
81) 1,2,4-Trichlorobenzene	13.442	180	1342	0.054	ppbv	90

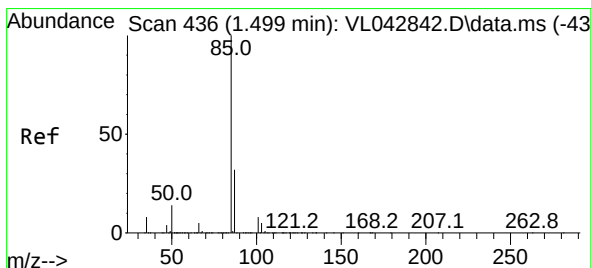
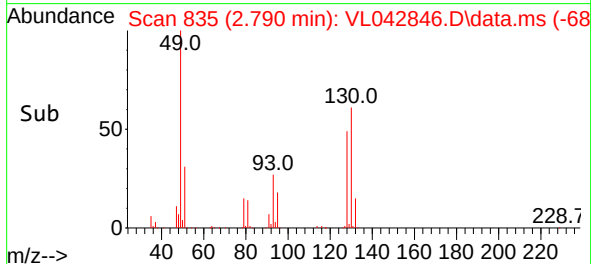
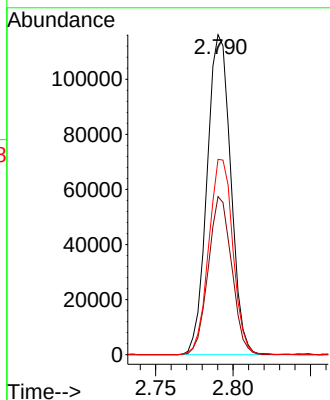
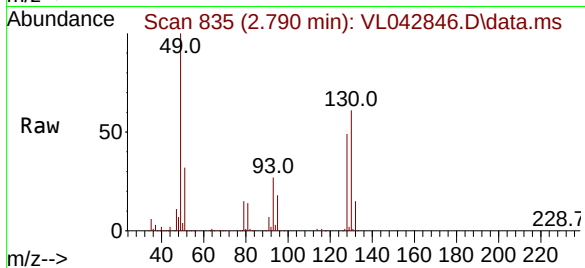
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

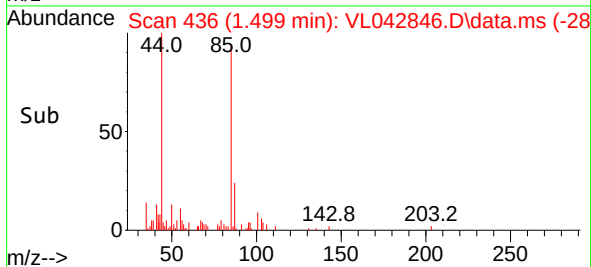
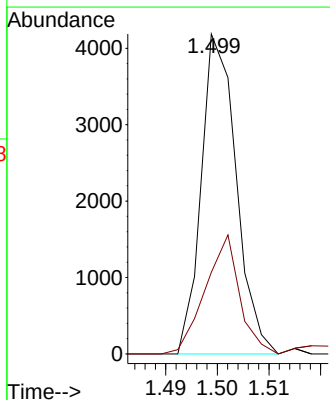
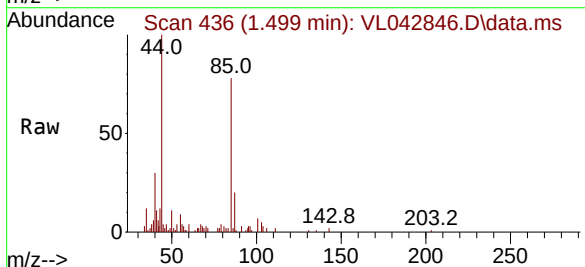
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MSVOA_L
ClientSampleId :
VSTDIC0.1

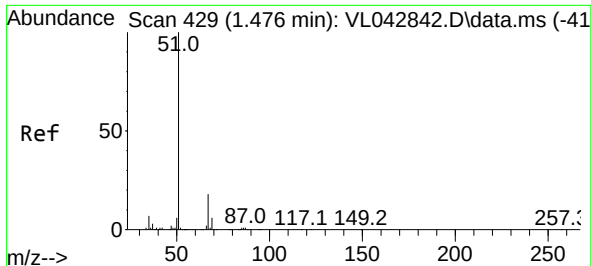
Tgt Ion: 49 Resp: 123711
Ion Ratio Lower Upper
49 100
128 48.6 23.7 71.1
130 62.1 30.6 91.6



#2
Dichlorodifluoromethane
Concen: 0.108 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 85 Resp: 1967
Ion Ratio Lower Upper
85 100
87 25.5 25.3 37.9

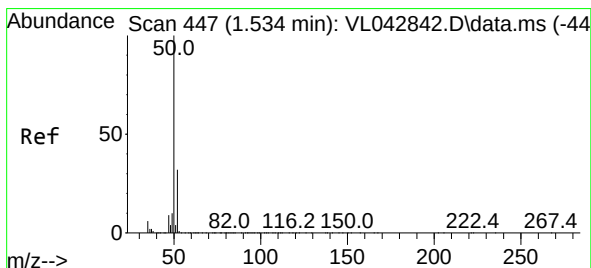
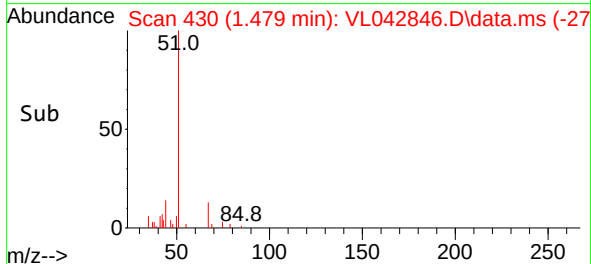
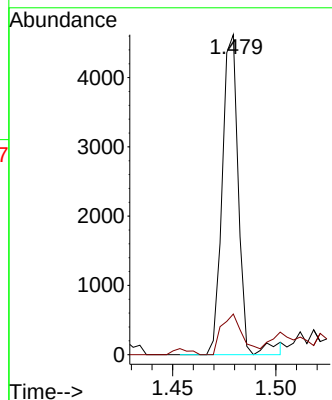
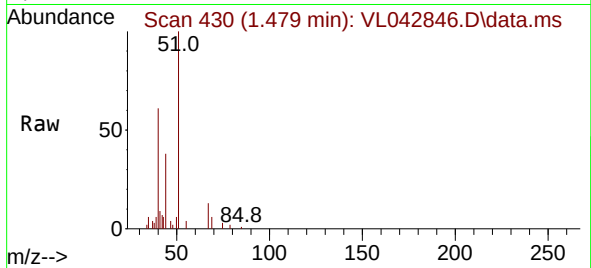




#3
Chlorodifluoromethane
Concen: 0.127 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

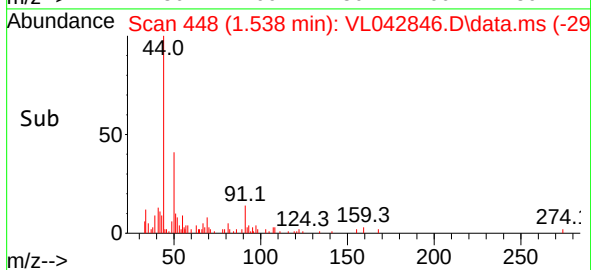
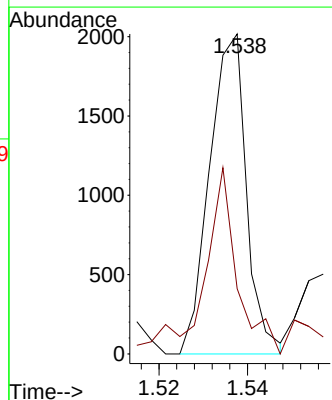
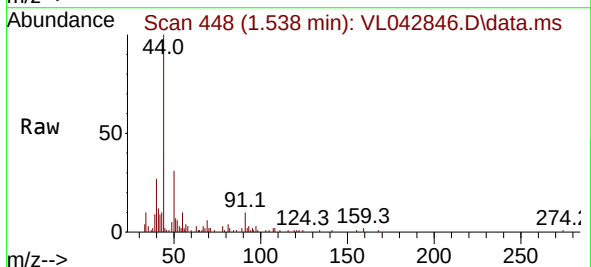
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

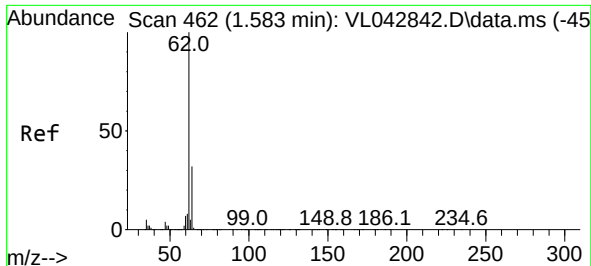
Tgt Ion: 51 Resp: 2553
Ion Ratio Lower Upper
51 100
67 18.6 14.9 22.3



#4
Chloromethane
Concen: 0.160 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 50 Resp: 1167
Ion Ratio Lower Upper
50 100
52 16.8 25.9 38.9#

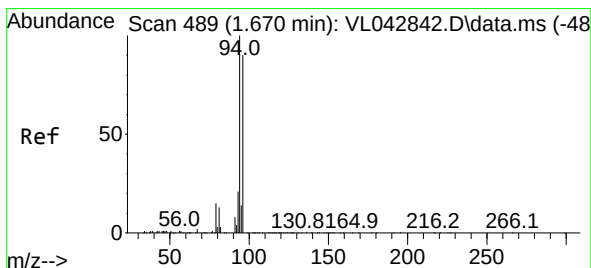
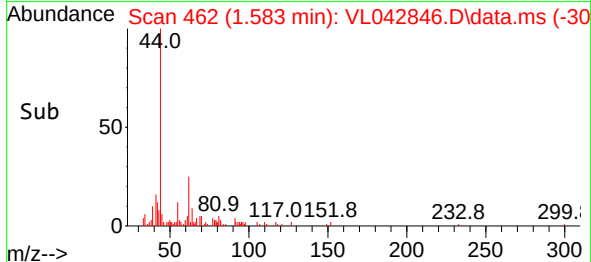
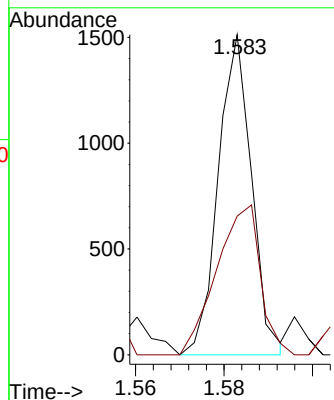
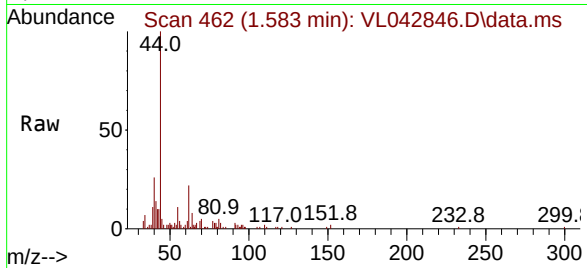




#5
 Vinyl Chloride
 Concen: 0.110 ppbv
 RT: 1.583 min Scan# 411
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

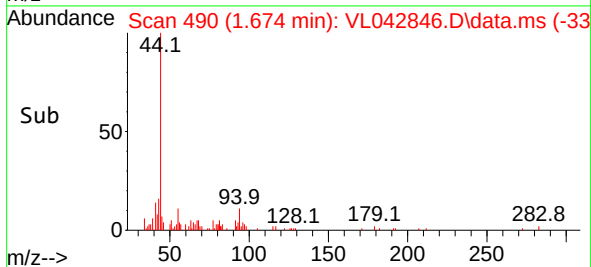
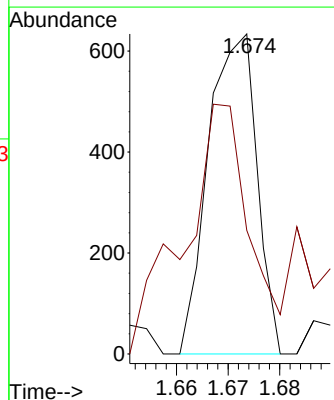
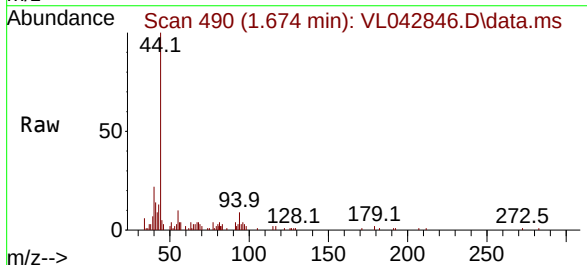
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

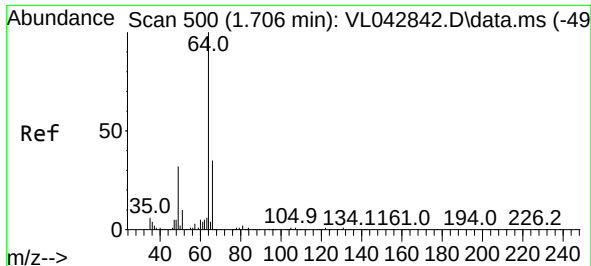
Tgt Ion: 62 Resp: 790
 Ion Ratio Lower Upper
 62 100
 64 39.7 25.4 38.2#



#6
 Bromomethane
 Concen: 0.144 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.003 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Tgt Ion: 94 Resp: 414
 Ion Ratio Lower Upper
 94 100
 96 26.3 72.1 108.1#

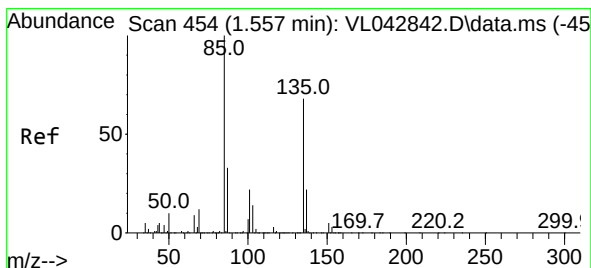
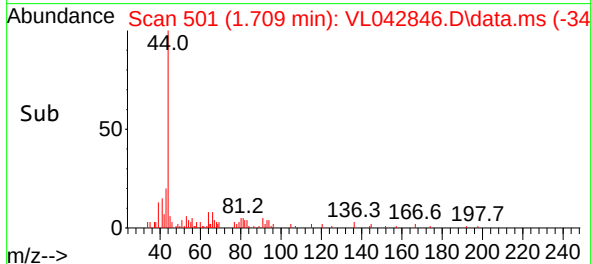
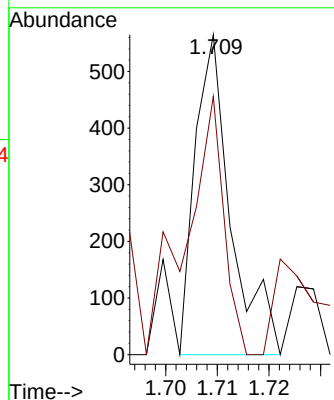
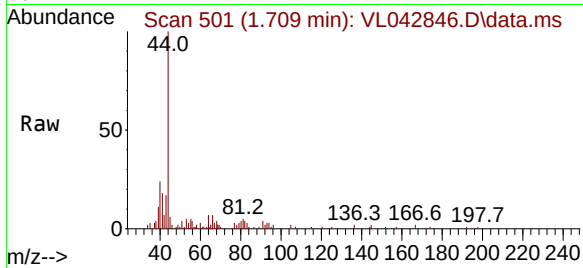




#7
Chloroethane
Concen: 0.097 ppbv
RT: 1.709 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

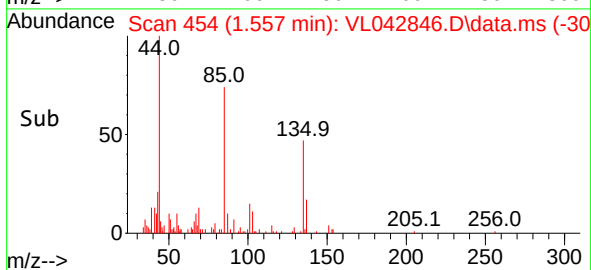
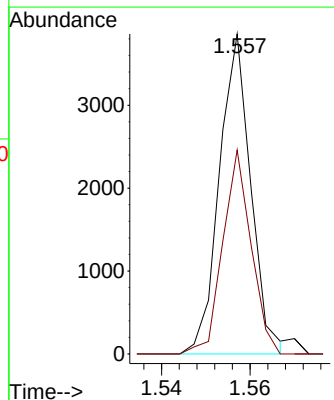
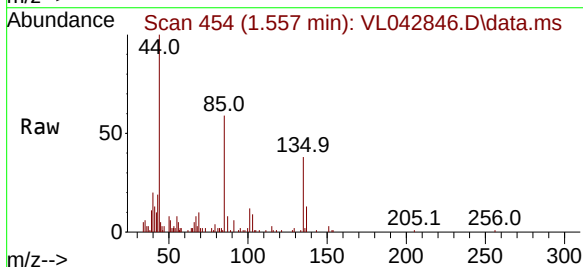
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

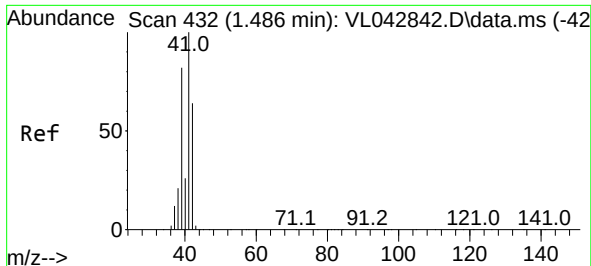
Tgt Ion: 64 Resp: 272
Ion Ratio Lower Upper
64 100
66 80.7 28.6 42.8#



#8
Dichlorotetrafluoroethane
Concen: 0.128 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 85 Resp: 1898
Ion Ratio Lower Upper
85 100
135 57.6 51.2 76.8

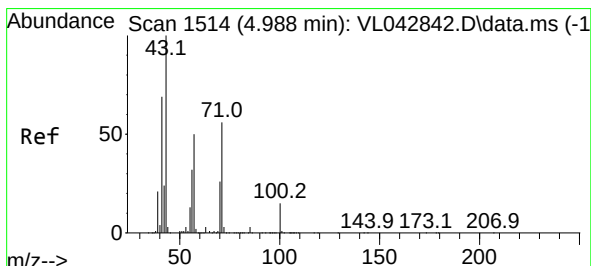
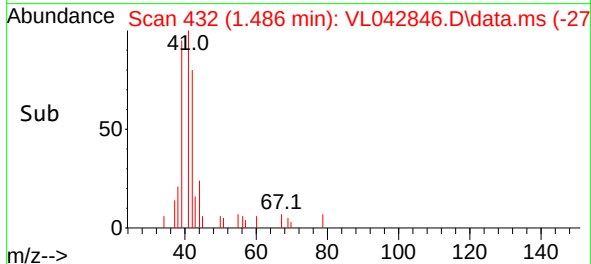
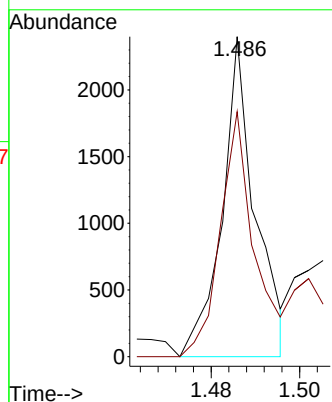
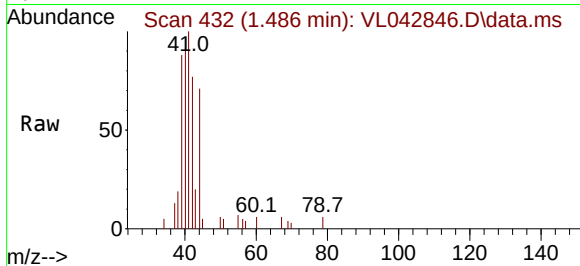




#9
 Propene
 Concen: 0.142 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

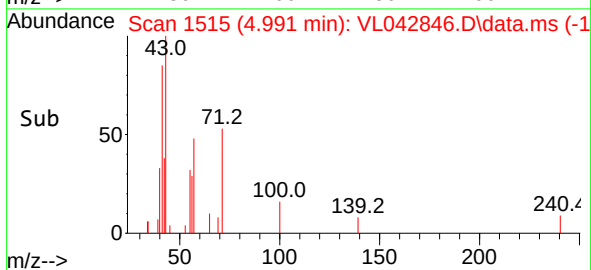
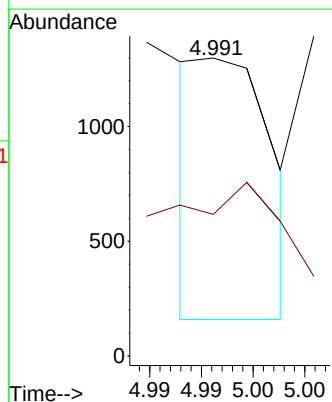
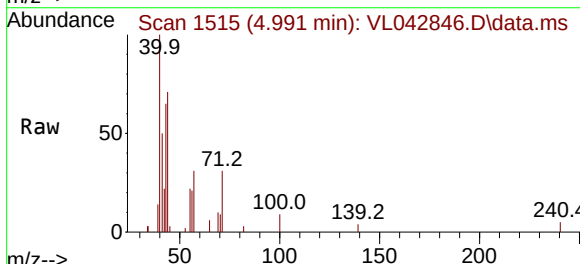
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

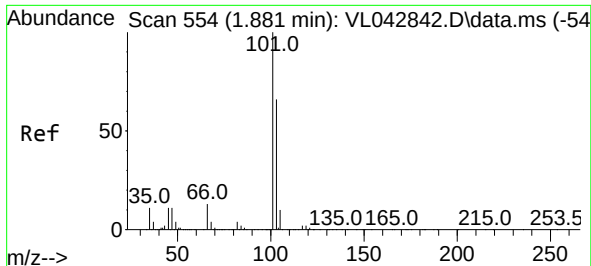
Tgt Ion: 41 Resp: 1233
 Ion Ratio Lower Upper
 41 100
 42 148.2 53.0 79.4#



#10
 Heptane
 Concen: 0.024 ppbv
 RT: 4.991 min Scan# 1515
 Delta R.T. 0.003 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Tgt Ion: 43 Resp: 560
 Ion Ratio Lower Upper
 43 100
 57 281.8 41.4 62.0#

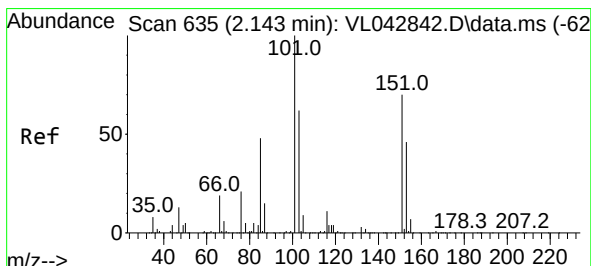
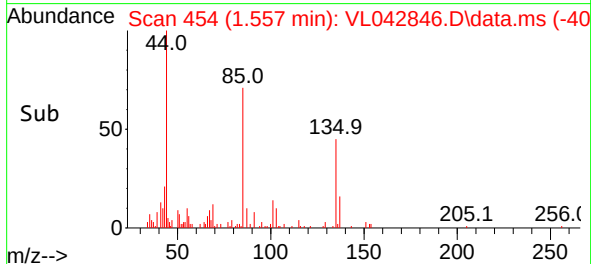
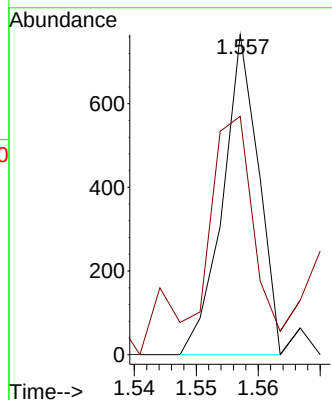
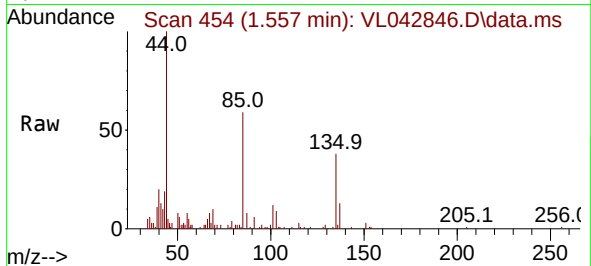




#11
Trichlorofluoromethane
Concen: 0.017 ppbv
RT: 1.557 min Scan# 411
Delta R.T. -0.324 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

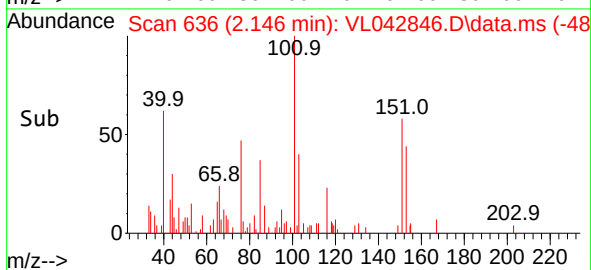
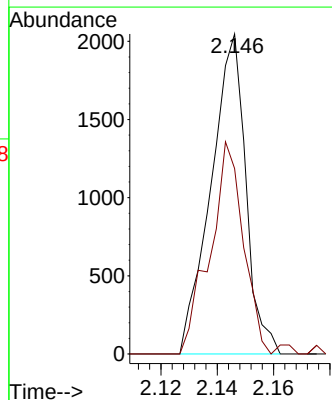
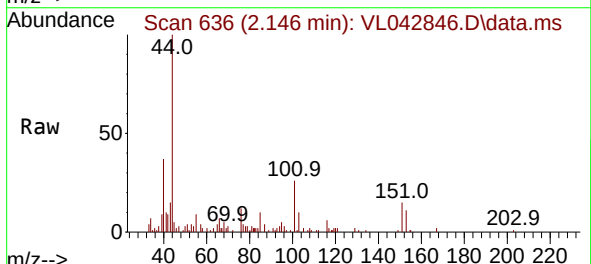
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

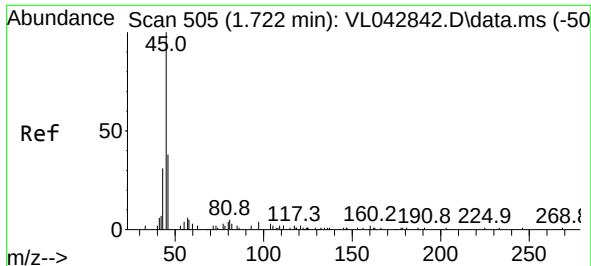
Tgt Ion:101 Resp: 307
Ion Ratio Lower Upper
101 100
103 67.2 52.5 78.7



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.123 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:101 Resp: 1758
Ion Ratio Lower Upper
101 100
151 64.7 56.4 84.6

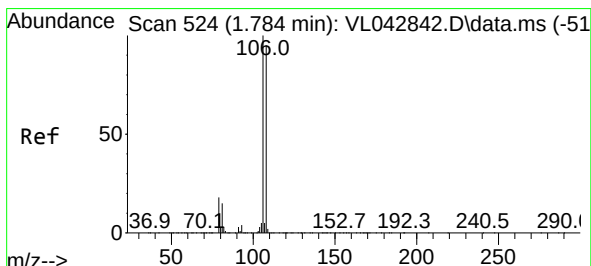
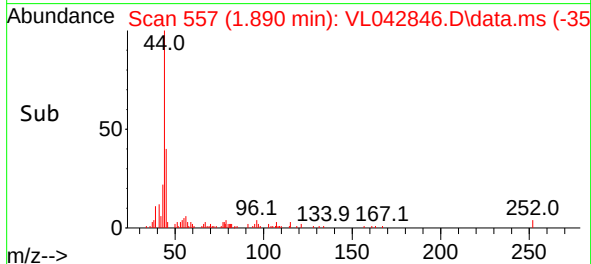
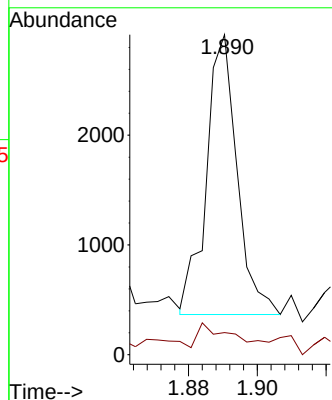
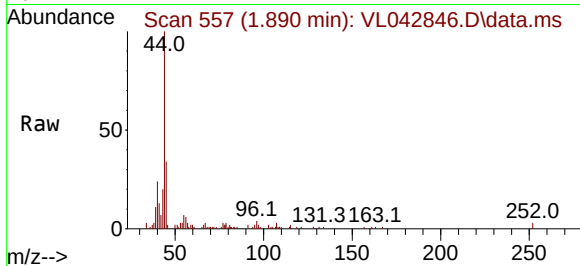




#13
Ethanol
Concen: 1.847 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.168 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

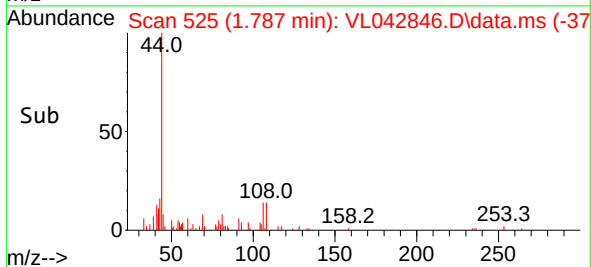
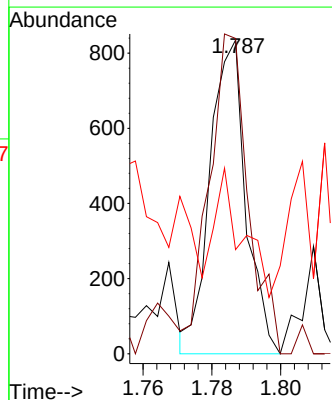
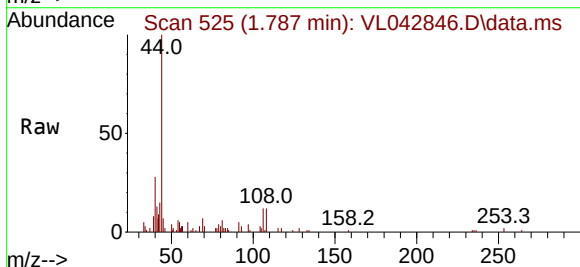
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

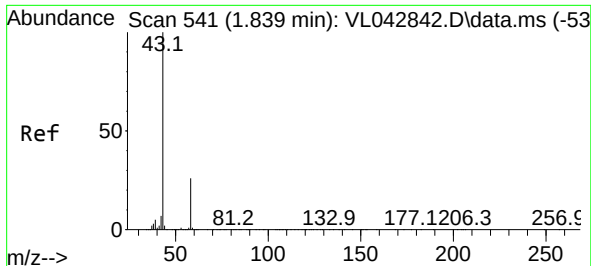
Tgt Ion: 45 Resp: 1584
Ion Ratio Lower Upper
45 100
46 30.6 17.5 69.9



#14
Bromoethene
Concen: 0.117 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 108 Resp: 602
Ion Ratio Lower Upper
108 100
106 149.0 85.1 127.7#
79 122.9 16.3 24.5#

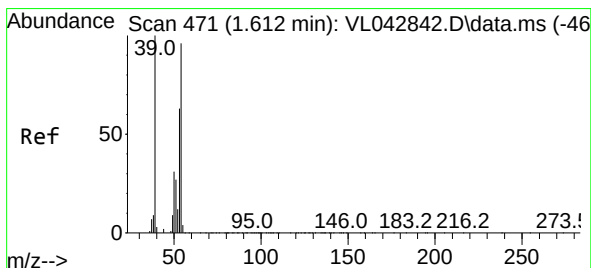
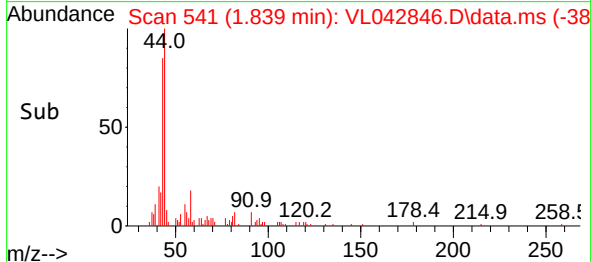
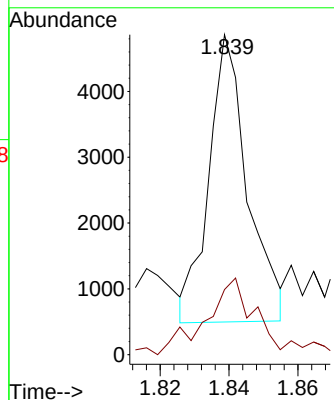
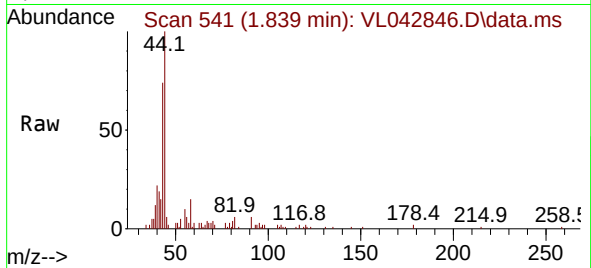




#15
Acetone
Concen: 0.208 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

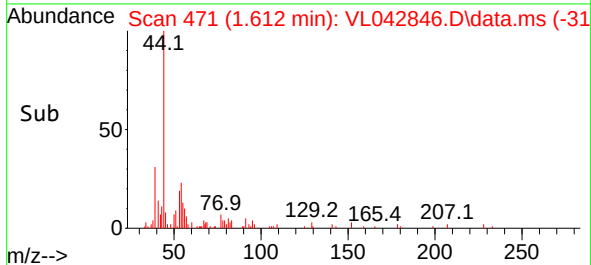
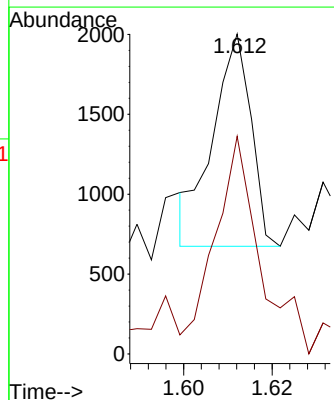
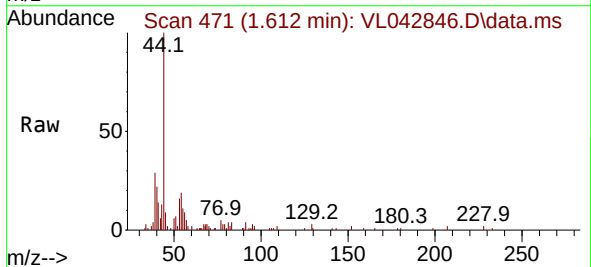
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

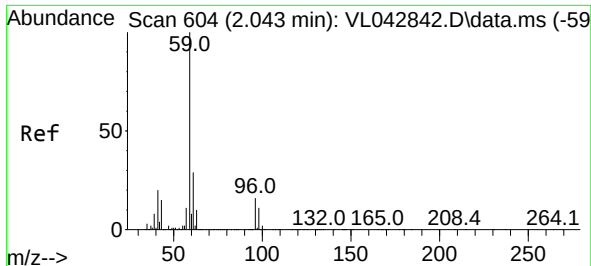
Tgt Ion: 43 Resp: 3411
Ion Ratio Lower Upper
43 100
58 42.9 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.107 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 39 Resp: 795
Ion Ratio Lower Upper
39 100
54 153.6 63.6 95.4#





#17

tert-Butyl alcohol

Concen: 0.139 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

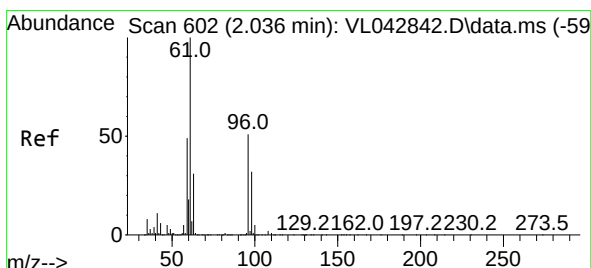
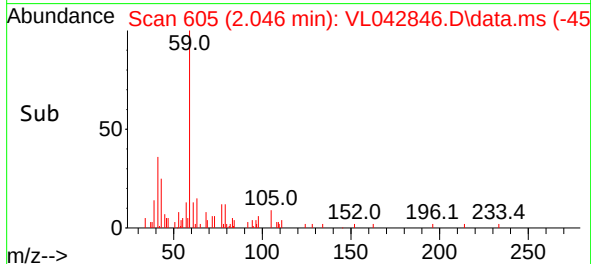
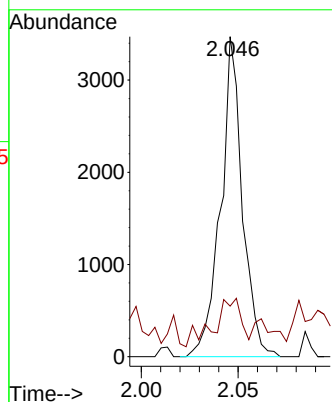
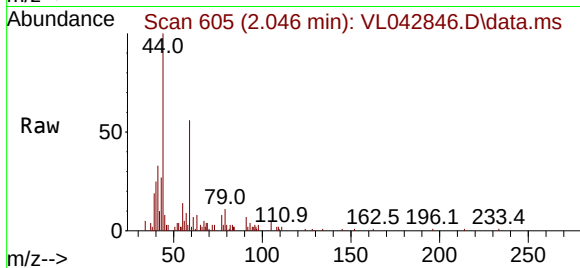
VSTDIC0.1

Tgt Ion: 59 Resp: 2697

Ion Ratio Lower Upper

59 100

57 24.9 9.0 13.4#



#18

1,1-Dichloroethene

Concen: 0.154 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

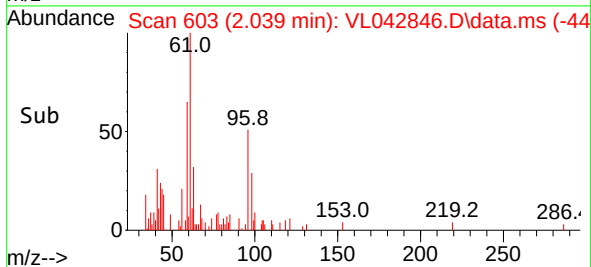
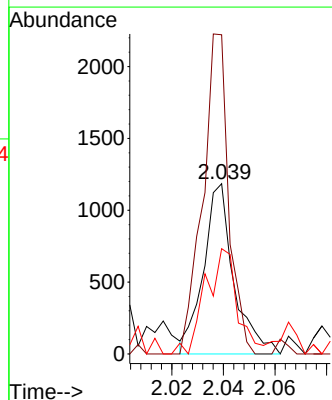
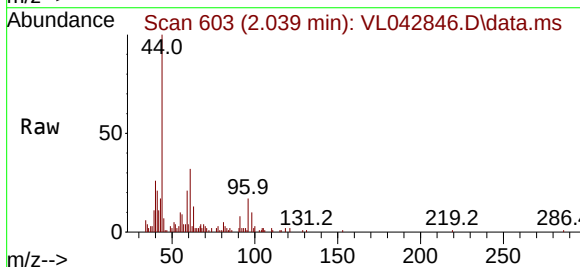
Tgt Ion: 96 Resp: 964

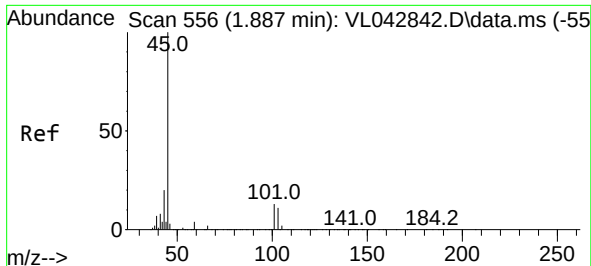
Ion Ratio Lower Upper

96 100

61 187.5 158.2 237.4

98 55.6 50.6 76.0

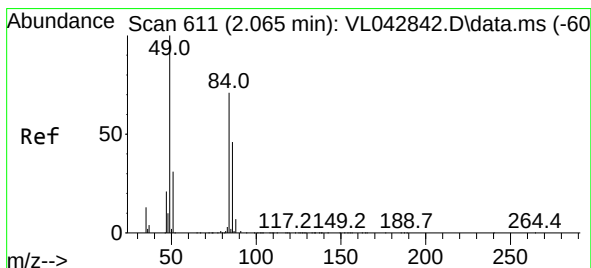
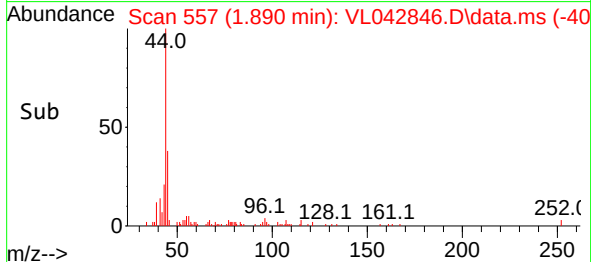
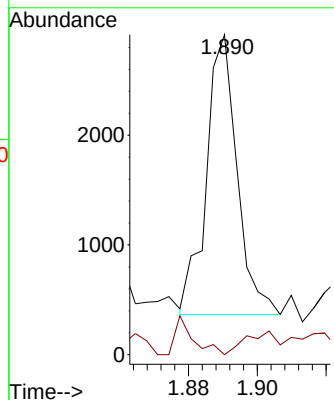
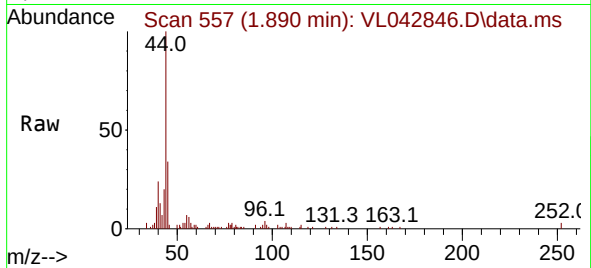




#19
Isopropyl Alcohol
Concen: 0.162 ppbv
RT: 1.890 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

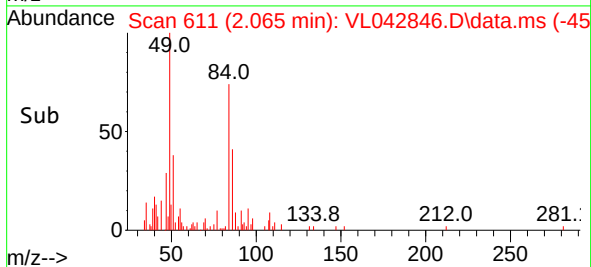
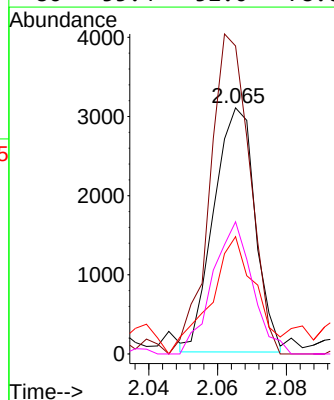
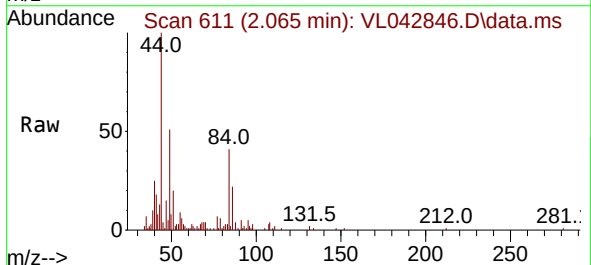
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

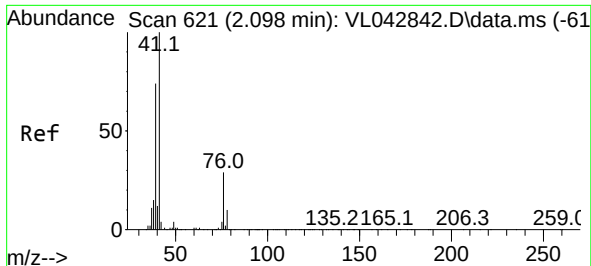
Tgt Ion: 45 Resp: 1584
Ion Ratio Lower Upper
45 100
58 26.0 32.7 49.1#



#20
Methylene Chloride
Concen: 0.376 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 84 Resp: 2577
Ion Ratio Lower Upper
84 100
49 149.4 112.3 168.5
51 42.1 36.0 54.0
86 55.4 52.0 78.0

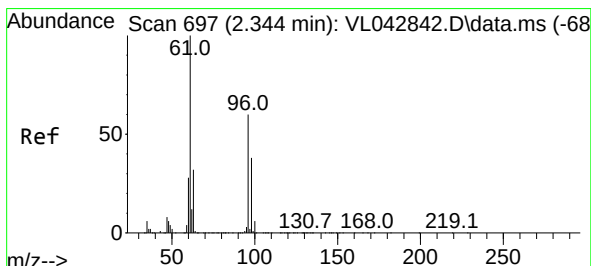
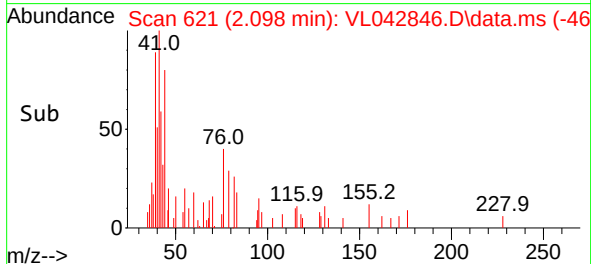
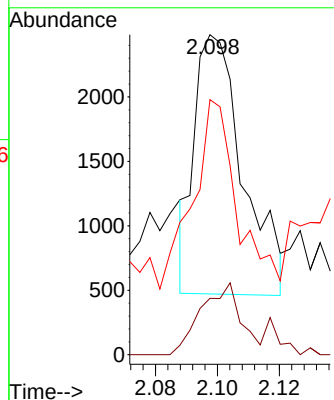
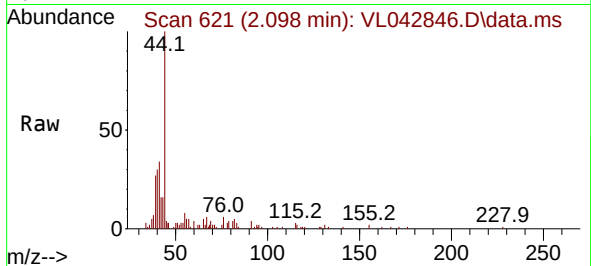




#21
 Allyl Chloride
 Concen: 0.190 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

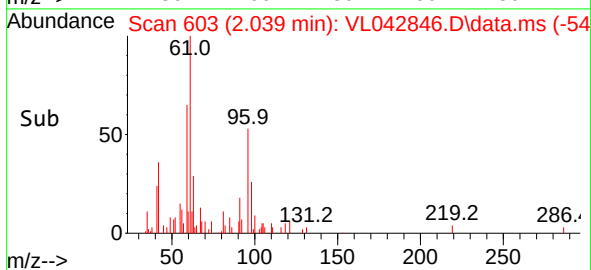
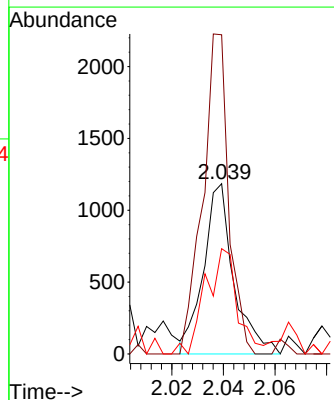
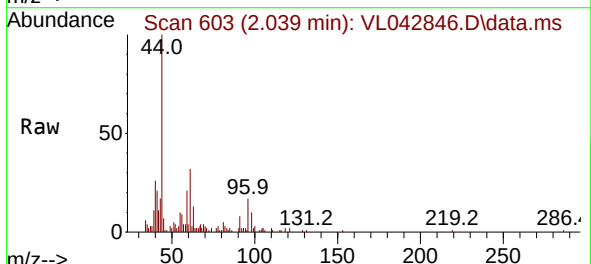
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

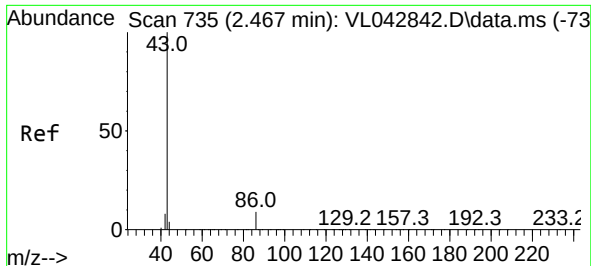
Tgt Ion: 41 Resp: 2198
 Ion Ratio Lower Upper
 41 100
 76 27.2 23.9 35.9
 39 109.1 57.8 86.6#



#22
 trans-1,2-Dichloroethene
 Concen: 0.138 ppbv
 RT: 2.039 min Scan# 603
 Delta R.T. -0.304 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Tgt Ion: 96 Resp: 964
 Ion Ratio Lower Upper
 96 100
 61 187.5 132.6 199.0
 98 55.6 50.0 75.0

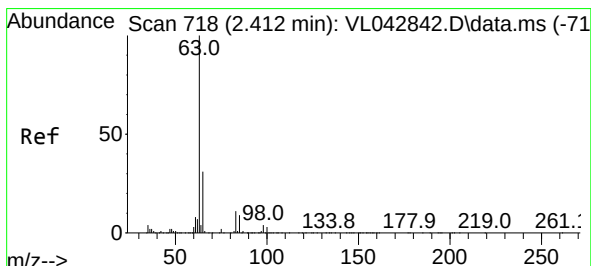
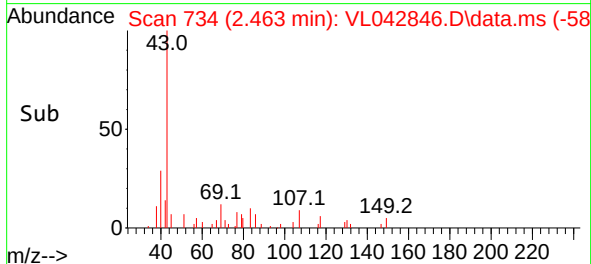
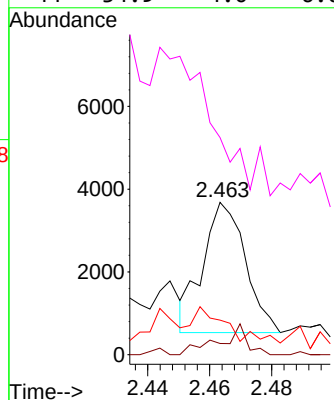
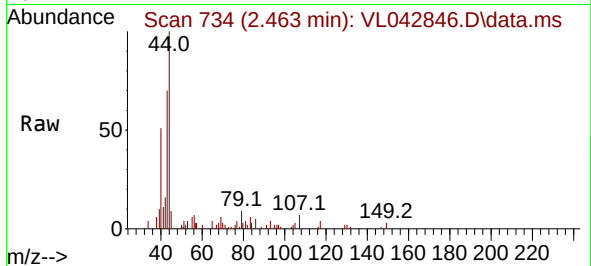




#23
 Vinyl Acetate
 Concen: 0.139 ppbv
 RT: 2.463 min Scan# 719
 Delta R.T. -0.003 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

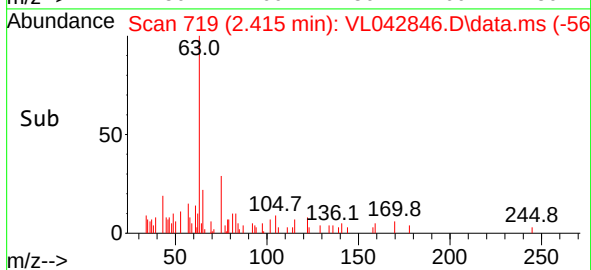
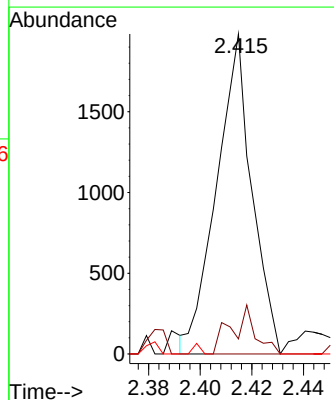
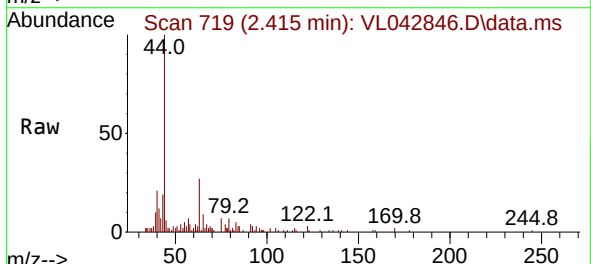
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

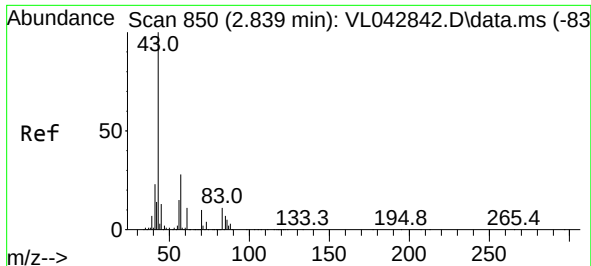
Tgt Ion: 43	Resp: 3002
Ion Ratio	Lower Upper
43 100	
86 8.6	6.6 9.8
42 17.6	7.0 10.6#
44 34.9	4.0 6.0#



#24
 1,1-Dichloroethane
 Concen: 0.130 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Tgt Ion: 63	Resp:	1879
Ion Ratio	Lower	Upper
63 100		
98 4.7	2.1	6.5
100 0.0	1.7	5.1#





#25

Ethyl Acetate

Concen: 0.030 ppbv

RT: 2.836 min Scan# 849

Delta R.T. -0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 1206

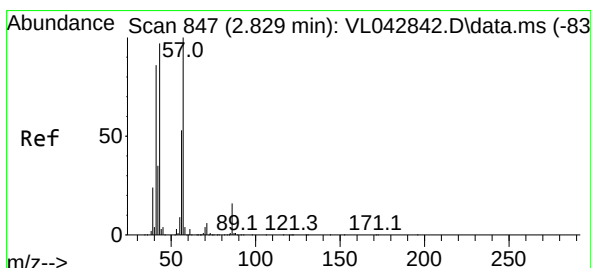
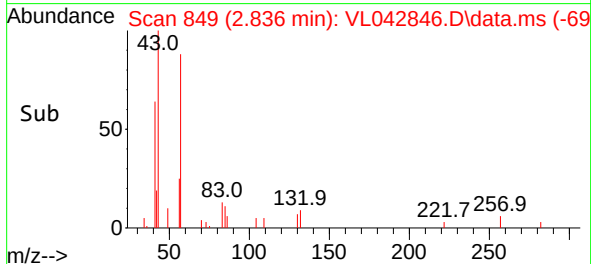
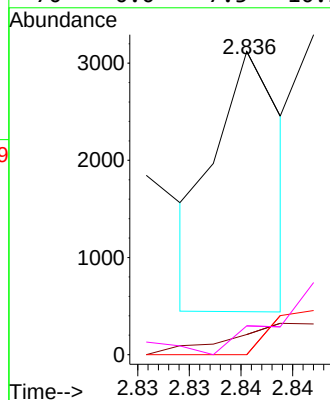
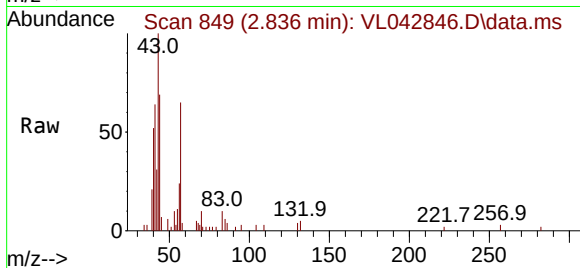
Ion Ratio Lower Upper

43 100

45 0.0 8.1 12.1#

61 0.0 7.4 11.2#

70 0.0 7.3 10.9#



#26

Hexane

Concen: 0.122 ppbv

RT: 2.836 min Scan# 849

Delta R.T. 0.006 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Tgt Ion: 57 Resp: 2223

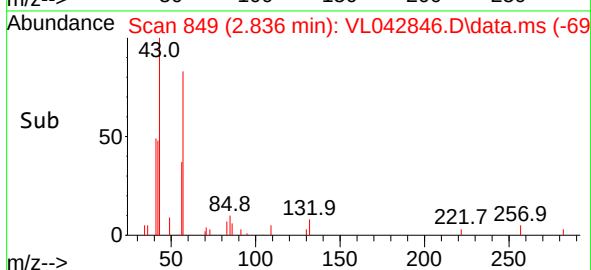
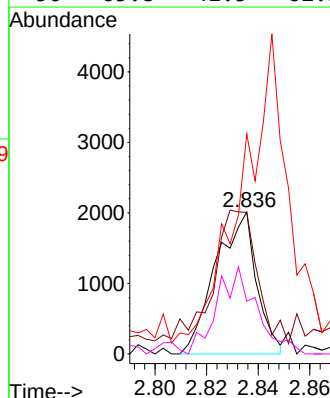
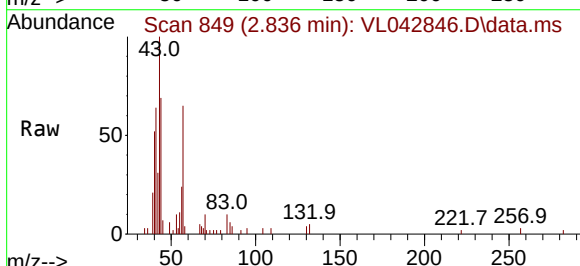
Ion Ratio Lower Upper

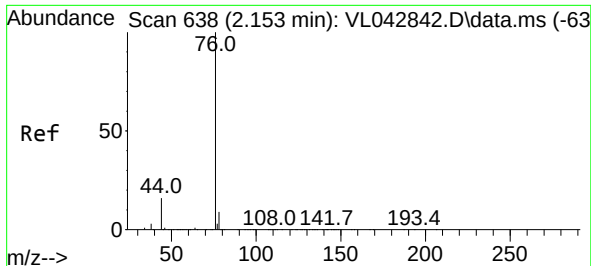
57 100

41 133.1 68.6 103.0#

43 0.0 168.5 252.7#

56 65.8 41.5 62.3#

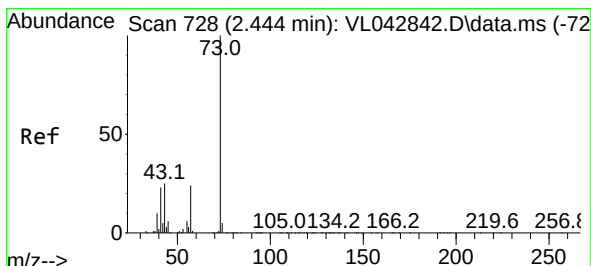
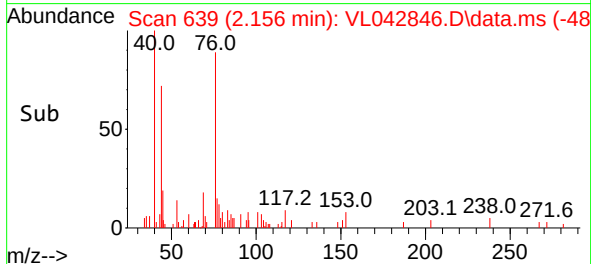
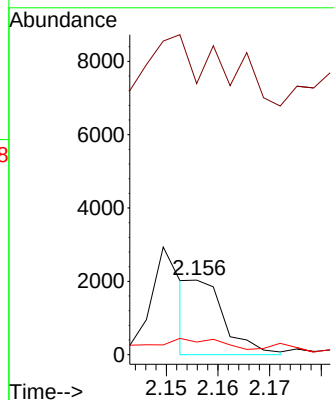
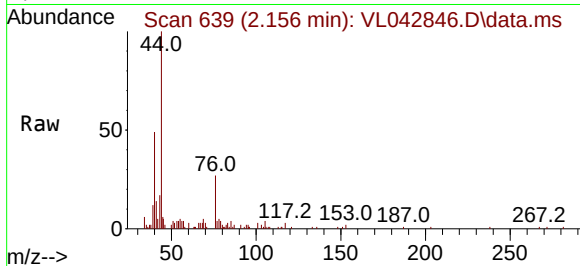




#27
Carbon Disulfide
Concen: 0.054 ppbv
RT: 2.156 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

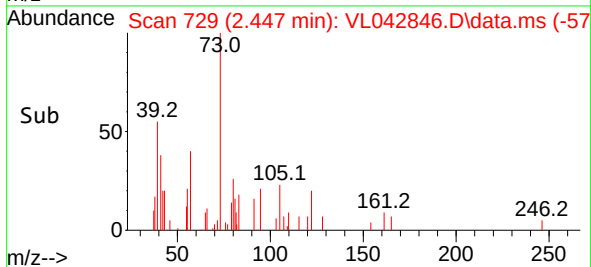
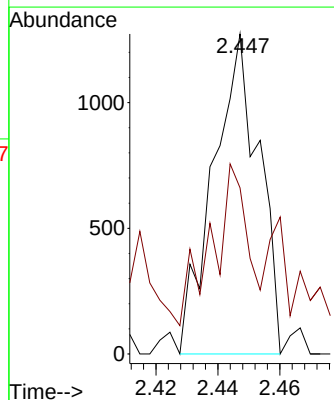
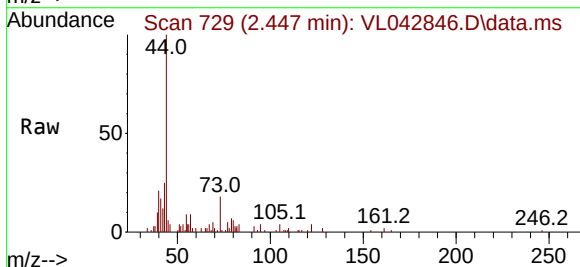
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

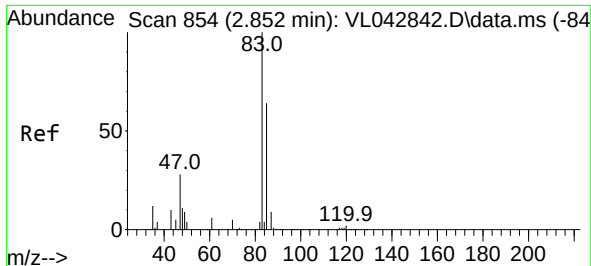
Tgt Ion: 76 Resp: 965
Ion Ratio Lower Upper
76 100
44 1802.5 15.9 23.9#
78 81.7 9.5 14.3#



#28
Methyl tert-Butyl Ether
Concen: 0.139 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 73 Resp: 1300
Ion Ratio Lower Upper
73 100
57 84.2 21.6 32.4#





#29

Chloroform

Concen: 0.113 ppbv

RT: 2.855 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

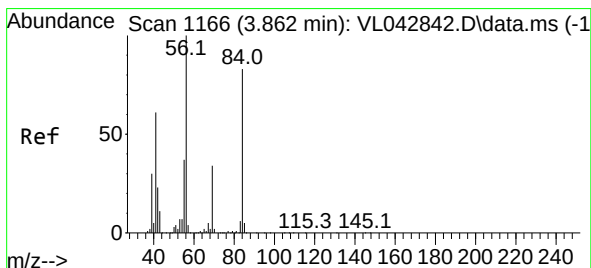
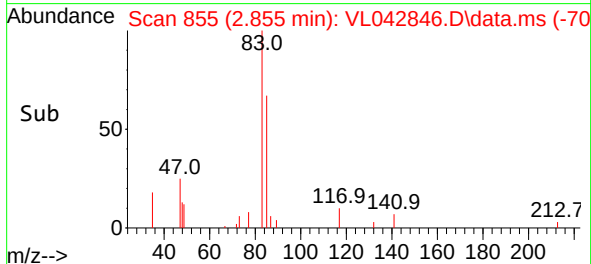
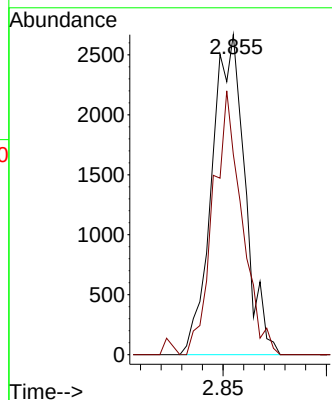
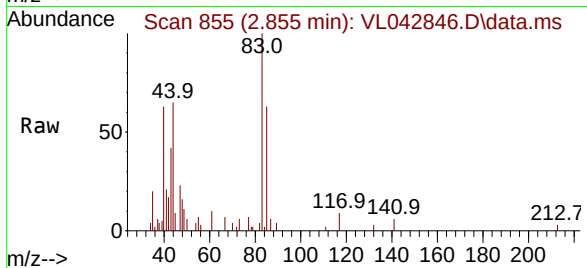
VSTDIC0.1

Tgt Ion: 83 Resp: 2962

Ion Ratio Lower Upper

83 100

85 62.6 51.1 76.7



#30

Cyclohexane

Concen: 0.052 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

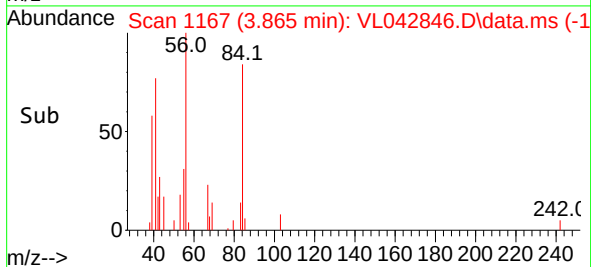
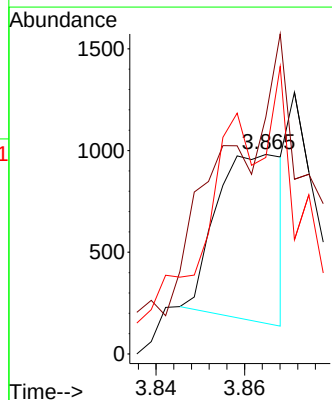
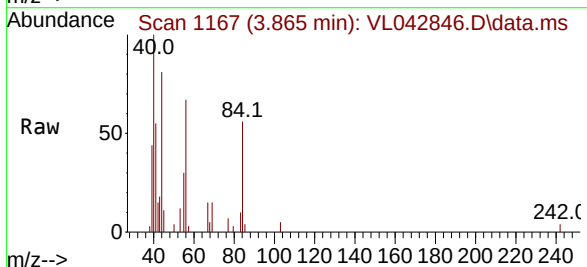
Tgt Ion: 84 Resp: 835

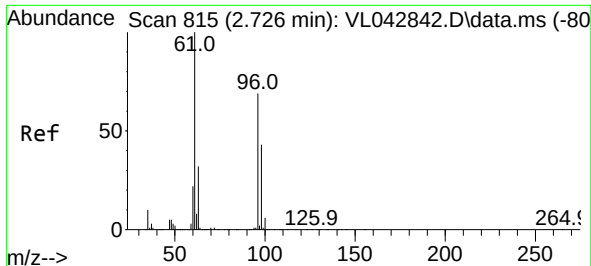
Ion Ratio Lower Upper

84 100

56 0.0 98.8 148.2#

41 0.0 61.3 91.9#

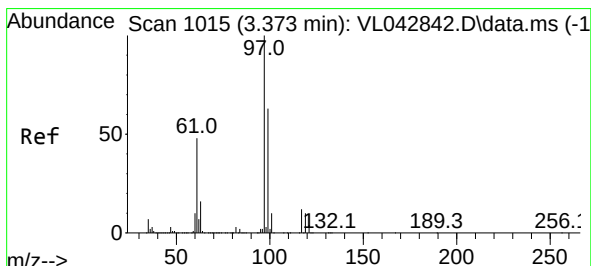
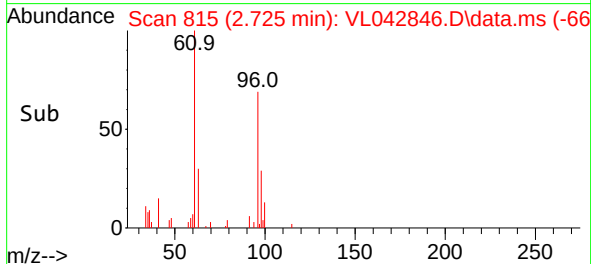
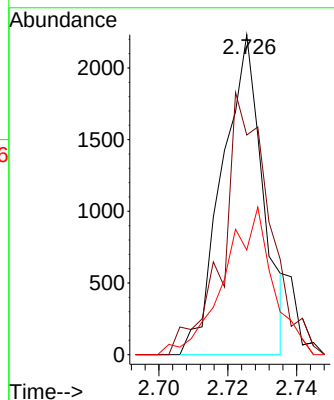
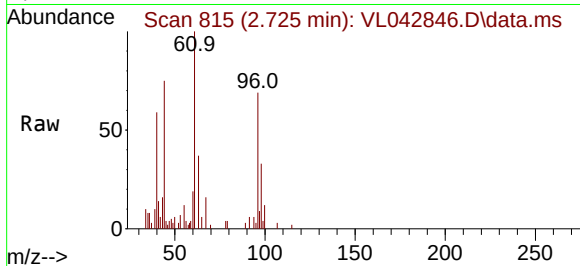




#31
 cis-1,2-Dichloroethene
 Concen: 0.101 ppbv
 RT: 2.725 min Scan# 815
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

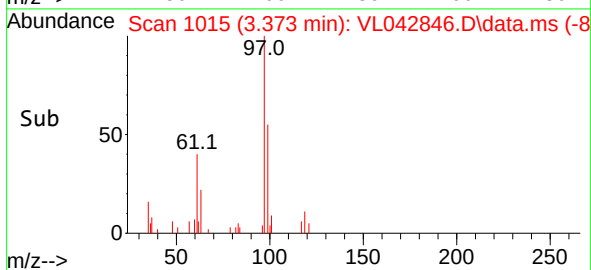
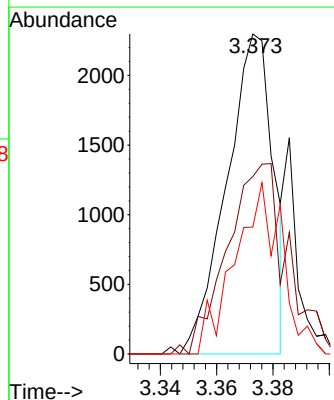
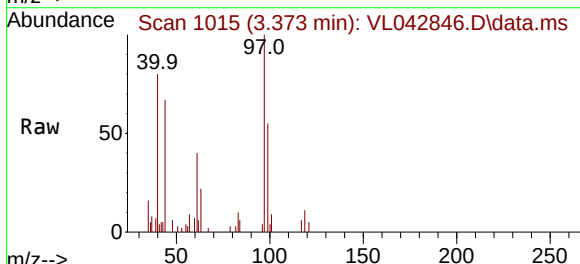
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

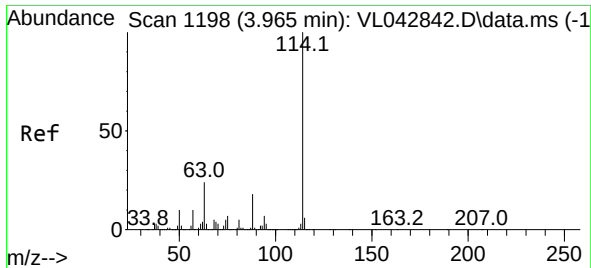
Tgt Ion: 61 Resp: 1839
 Ion Ratio Lower Upper
 61 100
 96 60.0 55.0 82.6
 98 30.3 34.3 51.5#



#32
 1,1,1-Trichloroethane
 Concen: 0.095 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Tgt Ion: 97 Resp: 2627
 Ion Ratio Lower Upper
 97 100
 99 76.4 51.0 76.6
 61 54.3 38.0 57.0

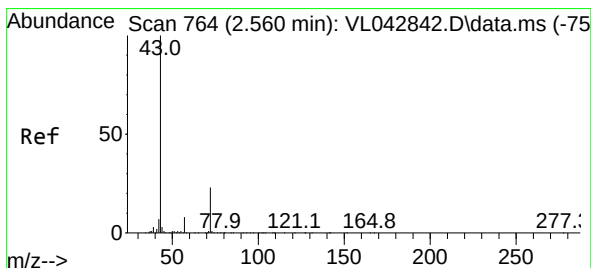
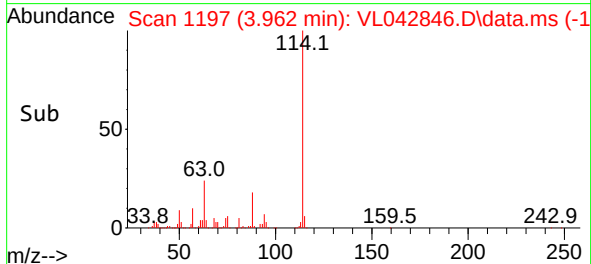
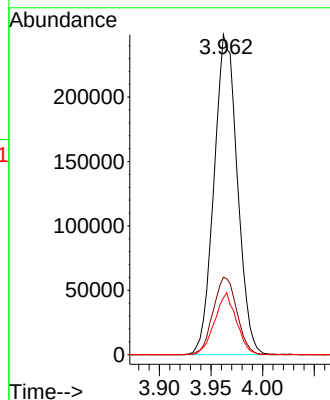
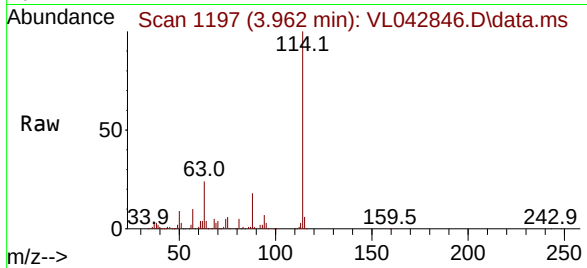




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

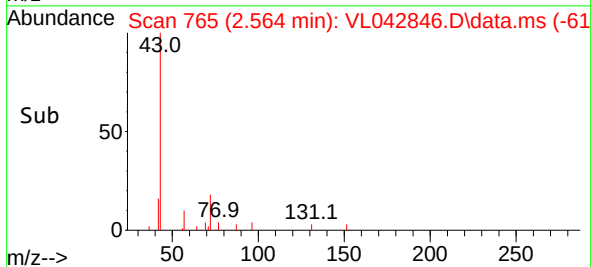
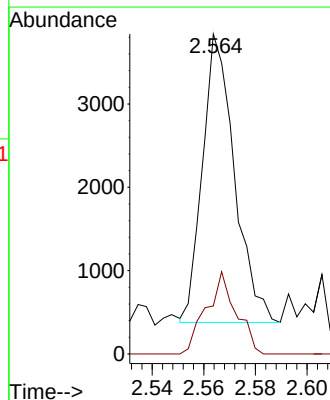
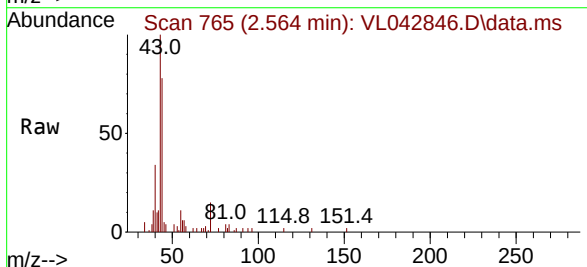
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

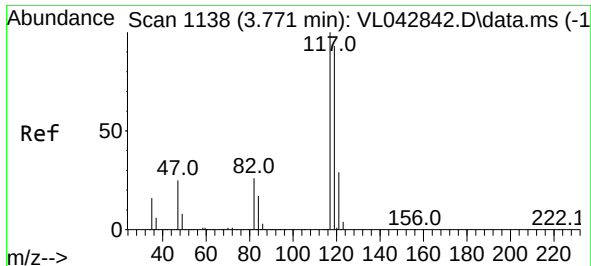
Tgt Ion:114 Resp: 390520
Ion Ratio Lower Upper
114 100
63 24.6 19.7 29.5
88 18.1 14.4 21.6



#34
2-Butanone
Concen: 0.113 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 43 Resp: 2970
Ion Ratio Lower Upper
43 100
72 26.7 18.6 28.0

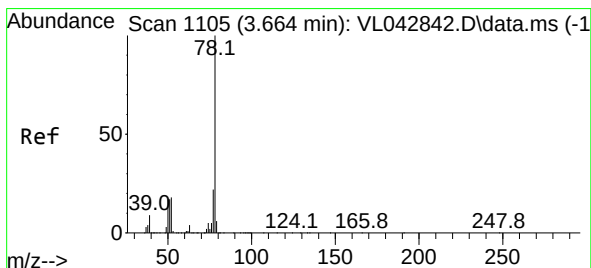
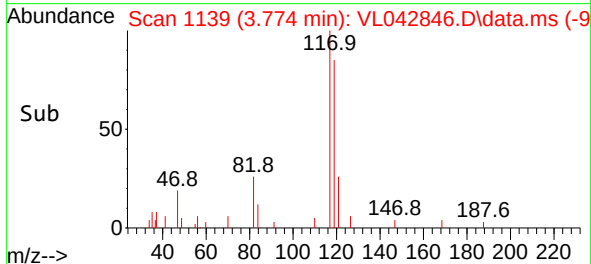
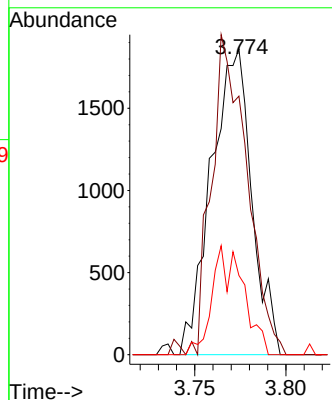
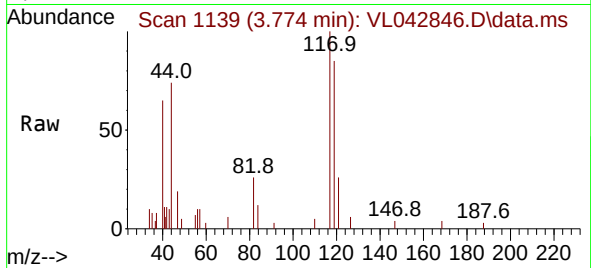




#35
Carbon Tetrachloride
Concen: 0.107 ppbv
RT: 3.774 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

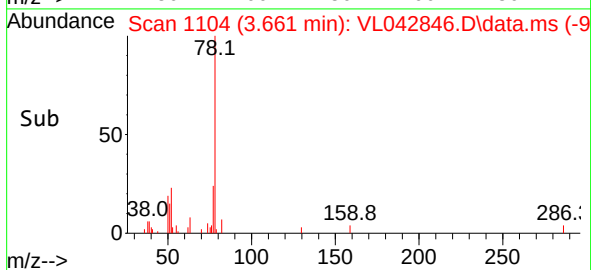
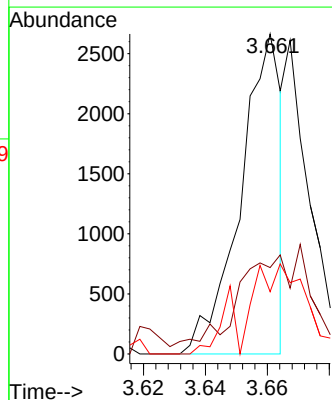
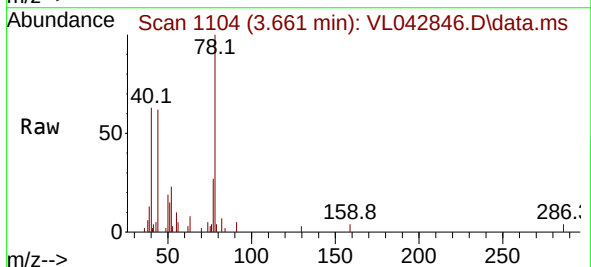
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

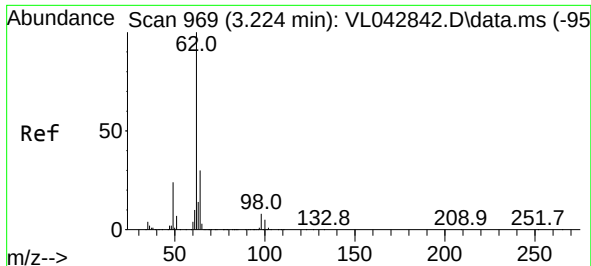
Tgt Ion:117 Resp: 2883
Ion Ratio Lower Upper
117 100
119 81.8 74.7 112.1
121 25.9 23.2 34.8



#36
Benzene
Concen: 0.065 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 78 Resp: 2430
Ion Ratio Lower Upper
78 100
77 23.1 17.7 26.5
50 19.4 13.9 20.9

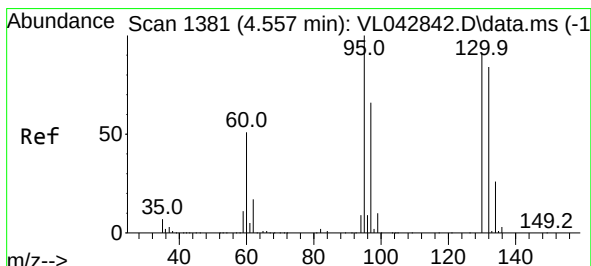
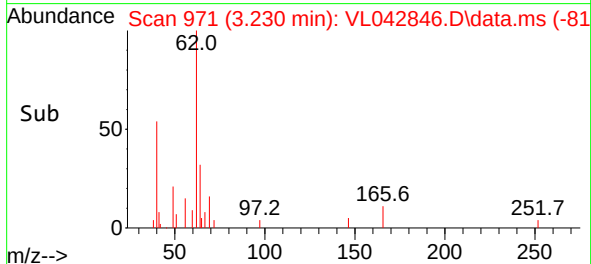
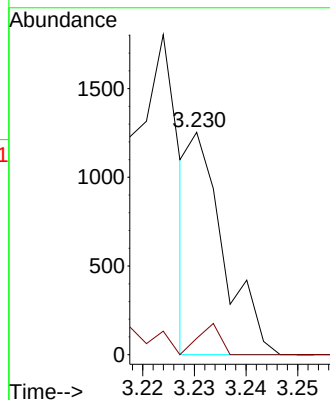
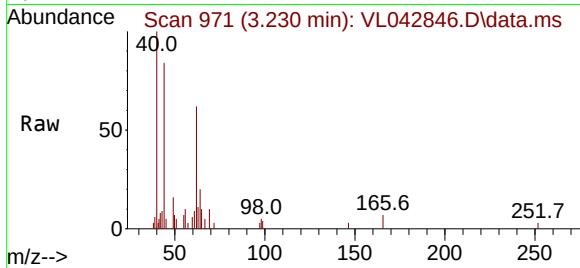




#37
1,2-Dichloroethane
Concen: 0.029 ppbv
RT: 3.230 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

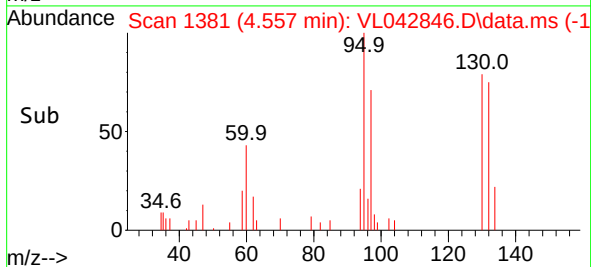
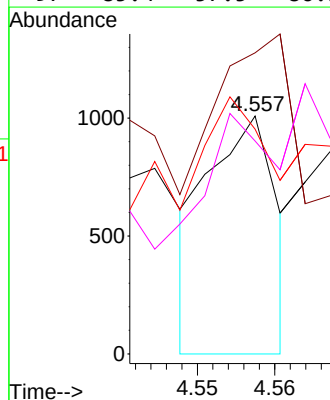
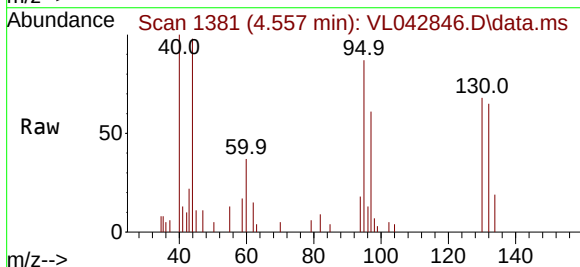
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

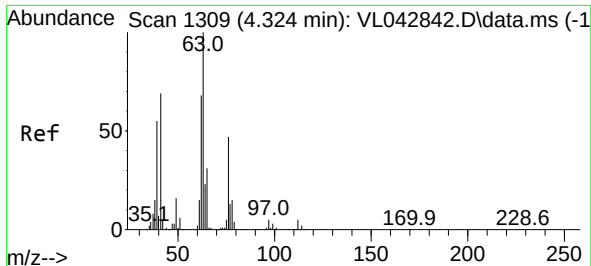
Tgt Ion: 62 Resp: 576
Ion Ratio Lower Upper
62 100
98 25.9 5.9 8.9#



#38
Trichloroethene
Concen: 0.037 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:130 Resp: 624
Ion Ratio Lower Upper
130 100
95 145.9 87.6 131.4#
132 83.5 73.8 110.8
97 85.4 57.5 86.3





#39

1,2-Dichloropropane

Concen: 7.036 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.363 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

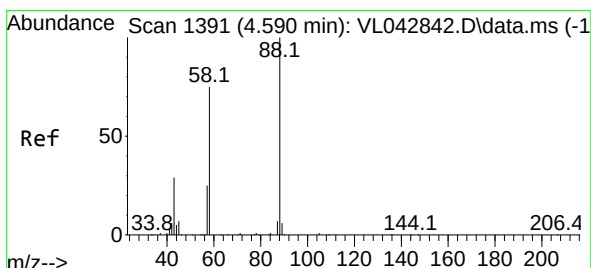
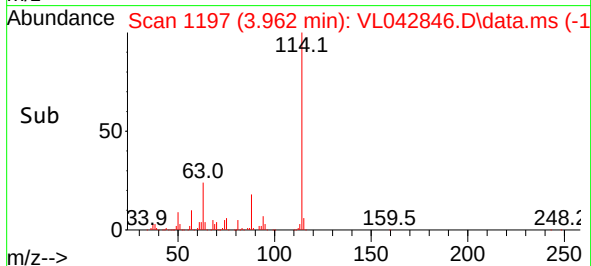
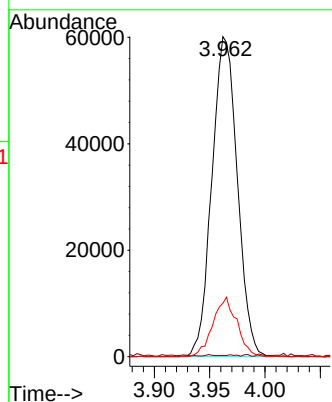
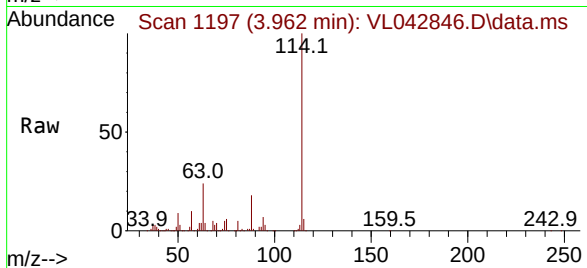
Tgt Ion: 63 Resp: 96098

Ion Ratio Lower Upper

63 100

41 0.0 55.0 82.4#

62 16.7 54.4 81.6#



#40

1,4-Dioxane

Concen: 0.108 ppbv

RT: 4.625 min Scan# 1402

Delta R.T. 0.036 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Tgt Ion: 88 Resp: 693

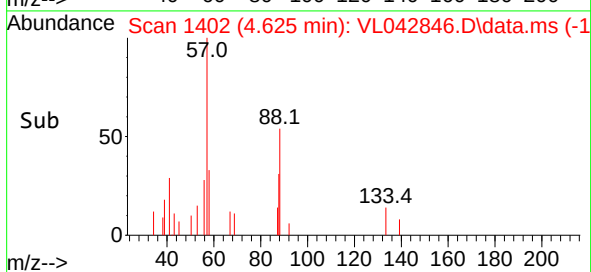
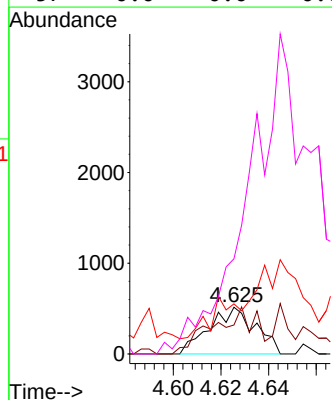
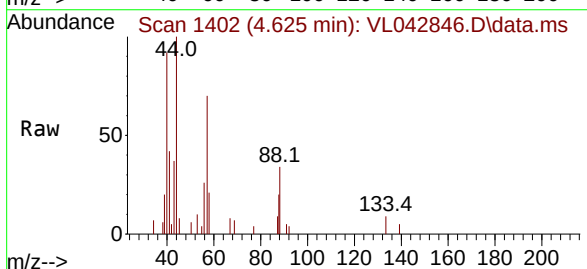
Ion Ratio Lower Upper

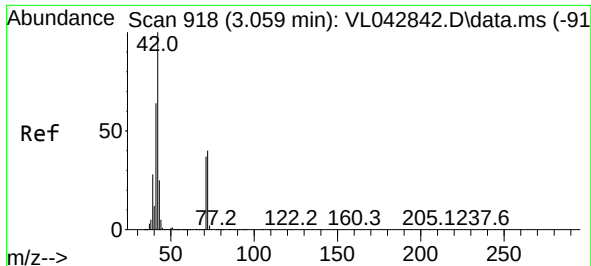
88 100

58 0.0 53.8 80.6#

43 71.0 22.8 34.2#

57 0.0 0.0 0.0

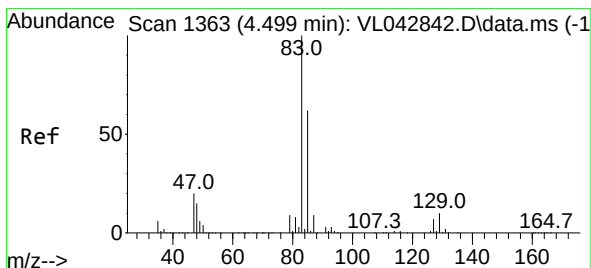
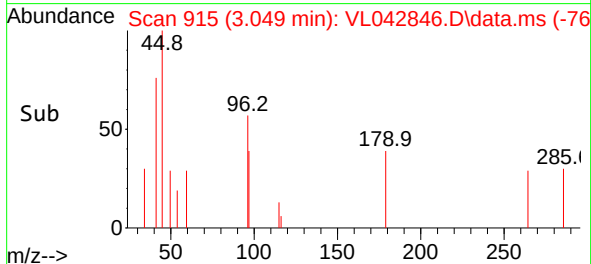
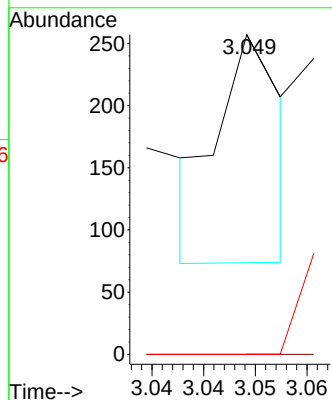
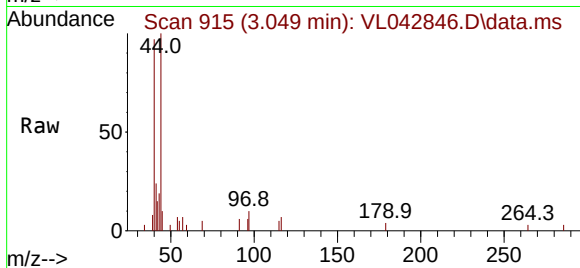




#41
Tetrahydrofuran
Concen: 0.005 ppbv
RT: 3.049 min Scan# 918
Delta R.T. -0.010 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

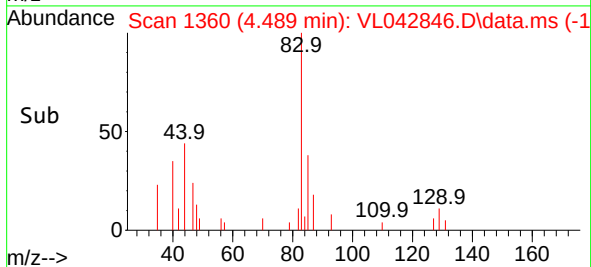
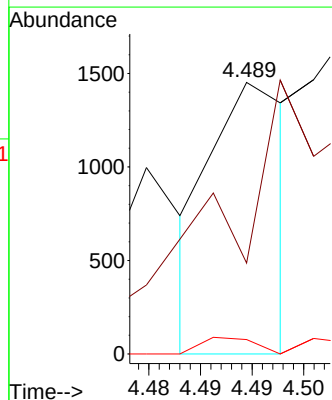
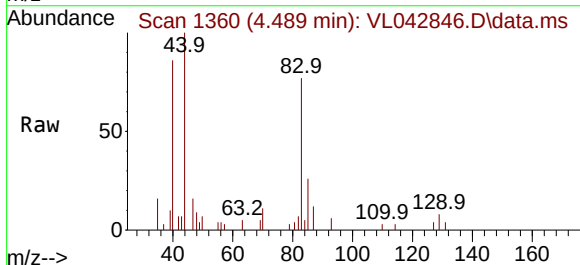
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

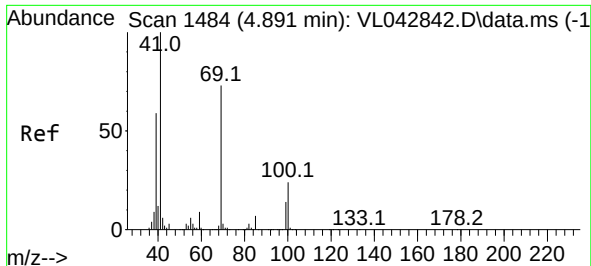
Tgt Ion: 42 Resp: 78
Ion Ratio Lower Upper
42 100
72 0.0 32.6 48.8#
71 0.0 30.0 45.0#



#42
Bromodichloromethane
Concen: 0.026 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.010 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 83 Resp: 756
Ion Ratio Lower Upper
83 100
85 0.0 49.8 74.8#
127 10.8 5.8 8.6#

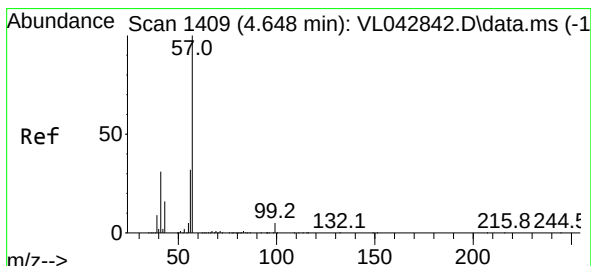
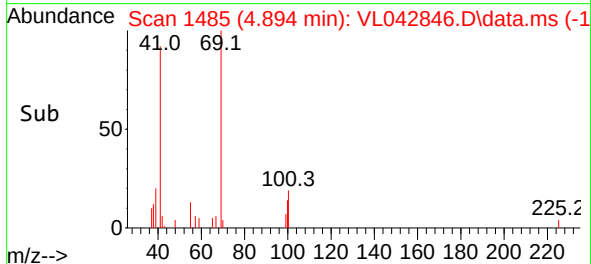
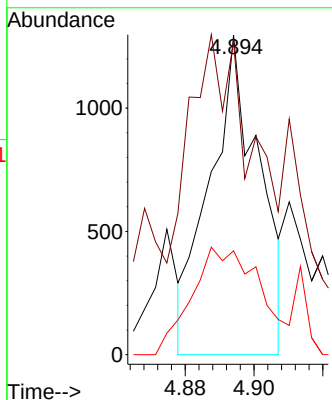
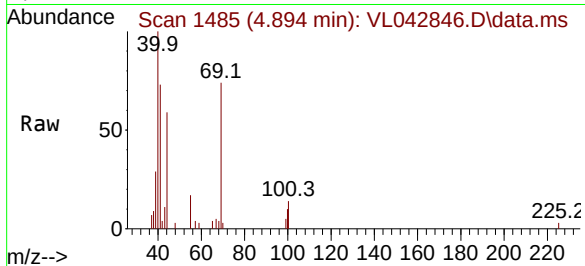




#43
Methyl Methacrylate
Concen: 0.084 ppbv
RT: 4.894 min Scan# 1485
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

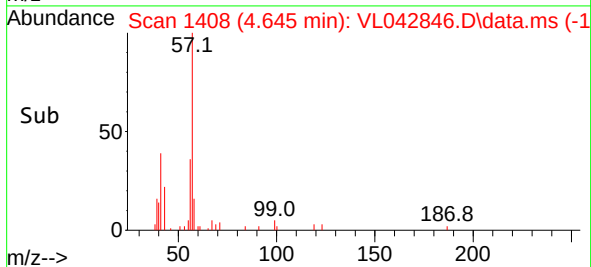
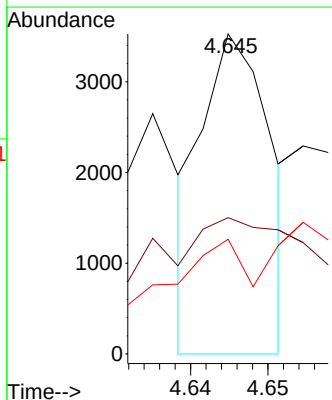
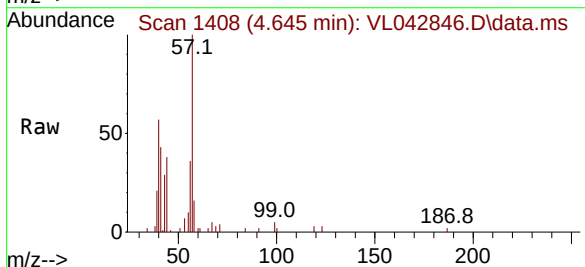
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

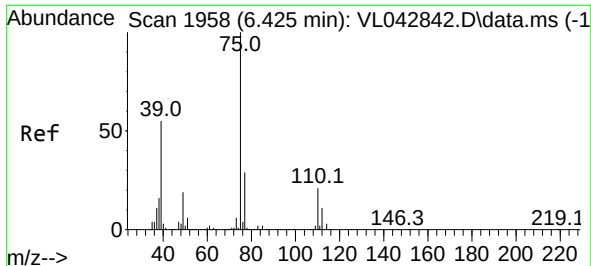
Tgt Ion: 69 Resp: 1289
Ion Ratio Lower Upper
69 100
41 194.8 114.6 172.0#
100 55.2 30.2 45.4#



#44
2,2,4-Trimethylpentane
Concen: 0.035 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 57 Resp: 2178
Ion Ratio Lower Upper
57 100
41 145.1 24.8 37.2#
56 0.0 25.5 38.3#

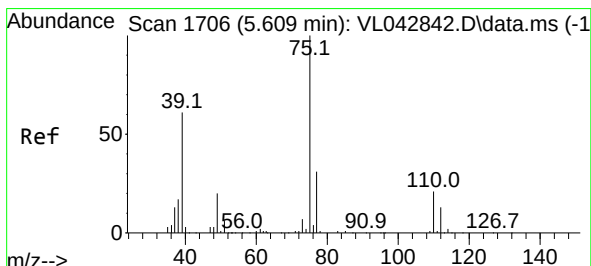
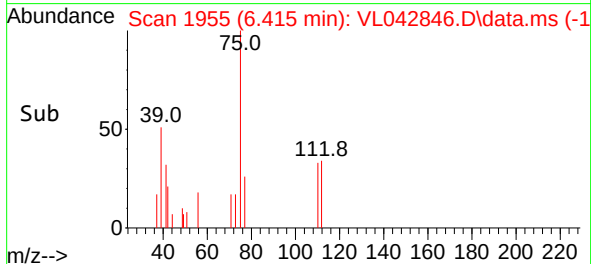
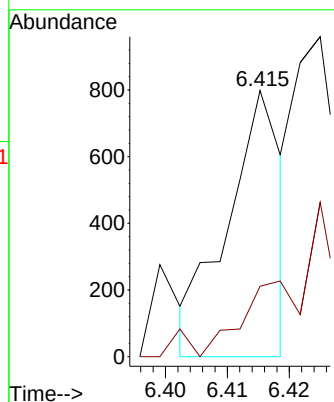
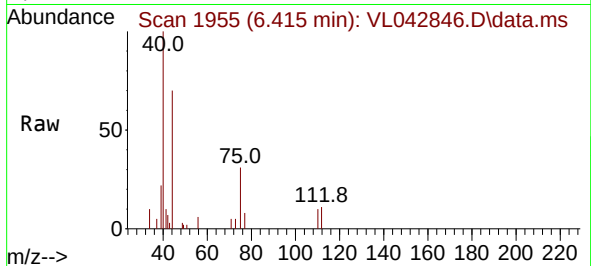




#45
 t-1,3-Dichloropropene
 Concen: 0.028 ppbv
 RT: 6.415 min Scan# 1955
 Delta R.T. -0.010 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

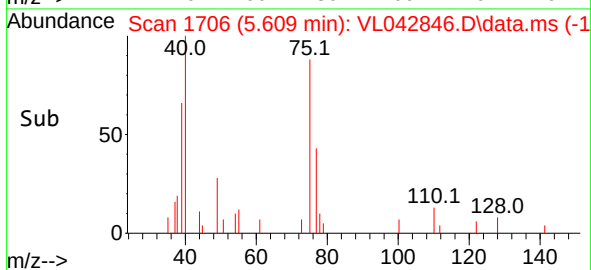
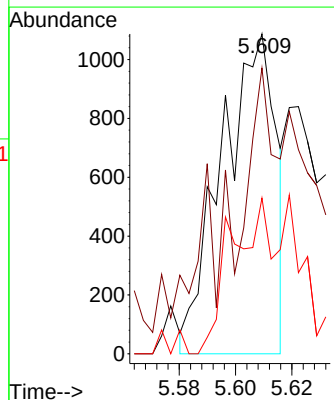
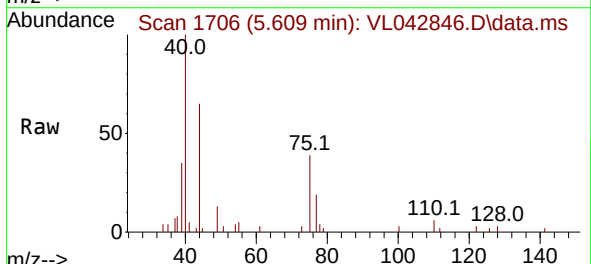
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

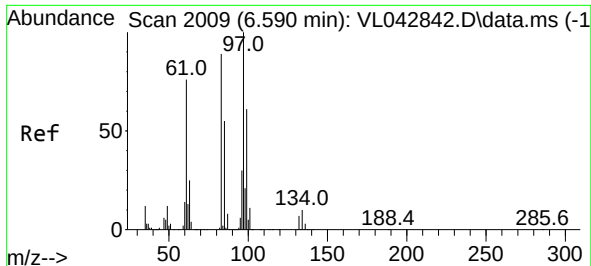
Tgt Ion: 75 Resp: 486
 Ion Ratio Lower Upper
 75 100
 77 26.4 23.8 35.6



#46
 cis-1,3-Dichloropropene
 Concen: 0.067 ppbv
 RT: 5.609 min Scan# 1706
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Tgt Ion: 75 Resp: 1454
 Ion Ratio Lower Upper
 75 100
 39 69.2 48.9 73.3
 77 44.1 24.9 37.3#





#47

1,1,2-Trichloroethane

Concen: 0.018 ppbv

RT: 6.580 min Scan# 2009

Delta R.T. -0.010 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 97 Resp: 260

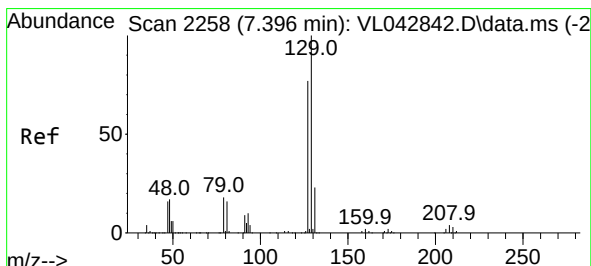
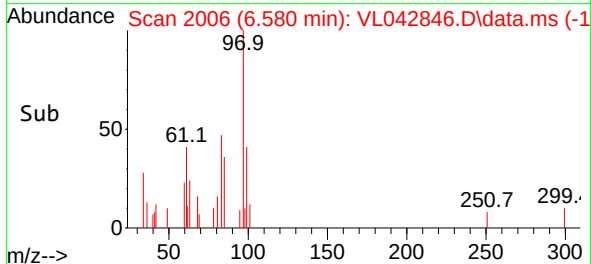
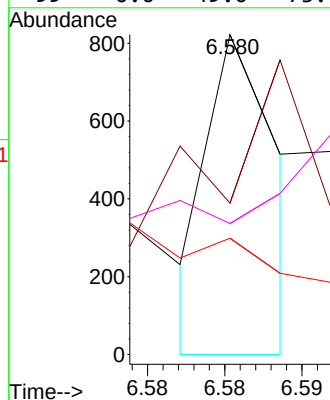
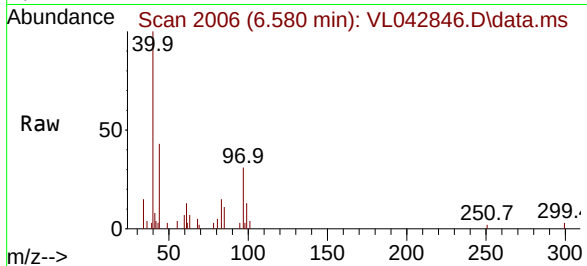
Ion Ratio Lower Upper

97 100

83 0.0 71.0 106.4#

85 15.2 43.6 65.4#

99 0.0 49.0 73.4#



#48

Dibromochloromethane

Concen: 0.088 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.003 min

Lab File: VL042846.D

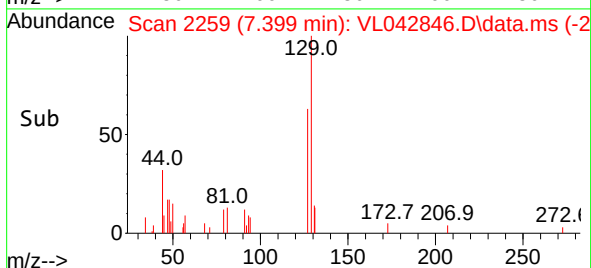
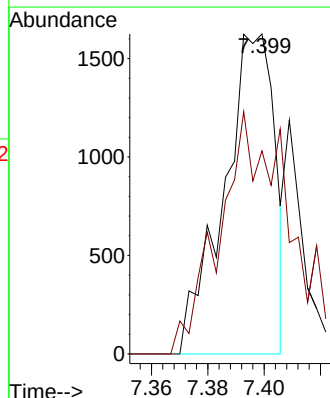
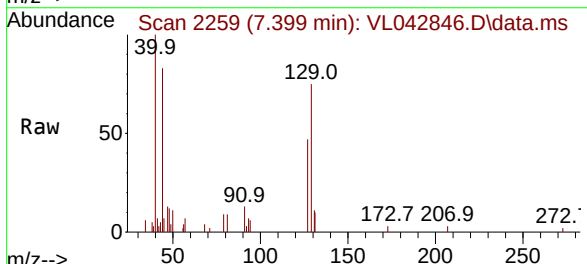
Acq: 13 Aug 2025 10:53

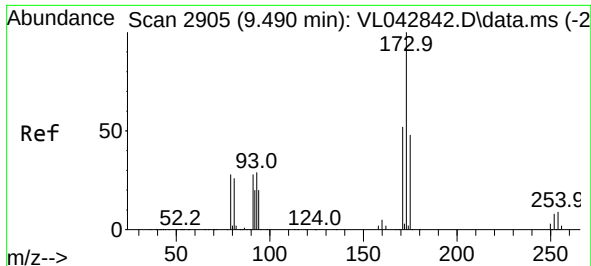
Tgt Ion: 129 Resp: 2052

Ion Ratio Lower Upper

129 100

127 101.4 39.4 118.2

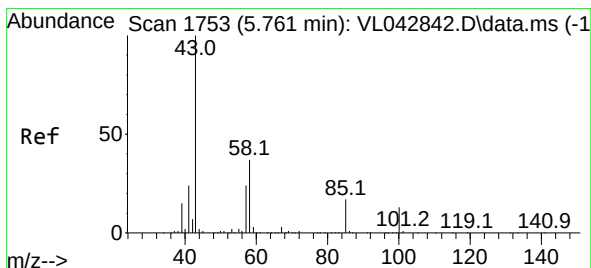
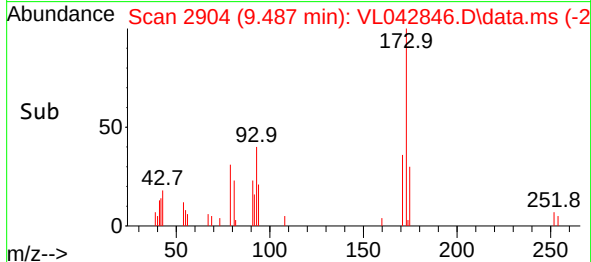
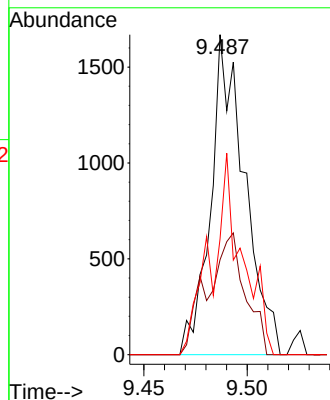
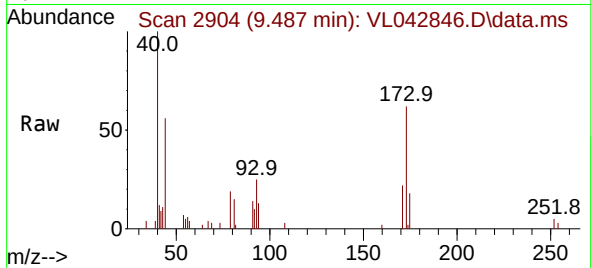




#49
Bromoform
Concen: 0.099 ppbv
RT: 9.487 min Scan# 2905
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

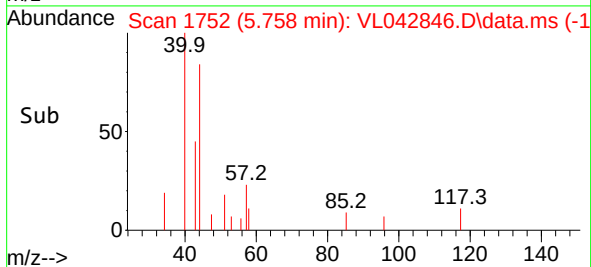
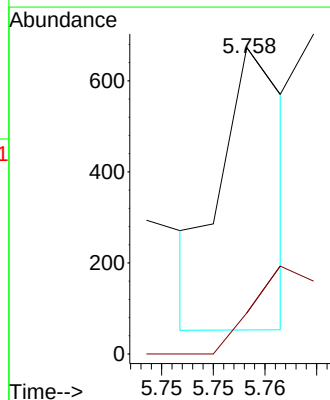
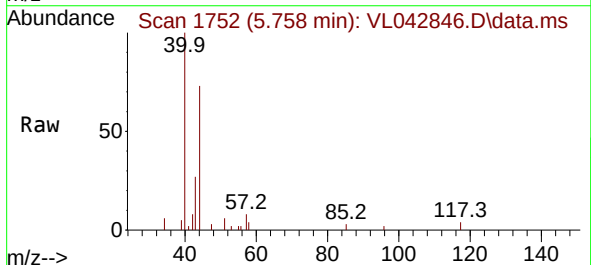
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

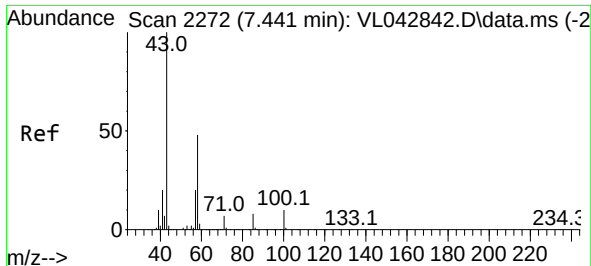
Tgt Ion:173 Resp: 1909
Ion Ratio Lower Upper
173 100
175 42.4 39.2 58.8
171 57.5 41.3 61.9



#50
4-Methyl-2-Pentanone
Concen: 0.007 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 43 Resp: 266
Ion Ratio Lower Upper
43 100
58 0.0 29.8 44.8#

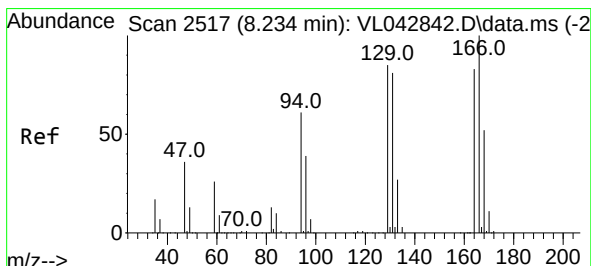
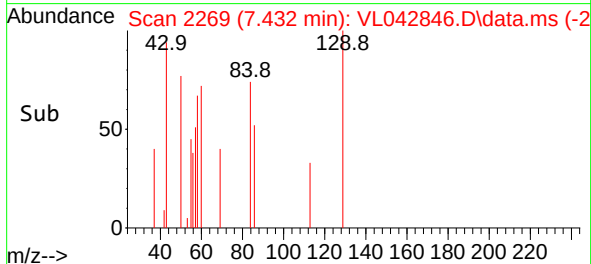
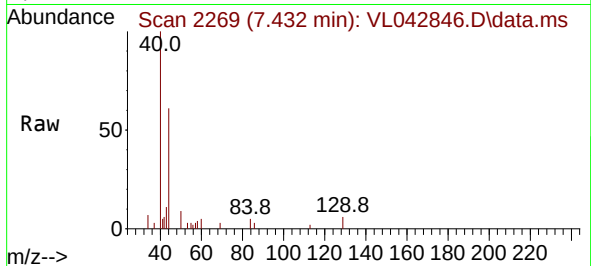




#51
2-Hexanone
Concen: 0.002 ppbv
RT: 7.432 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

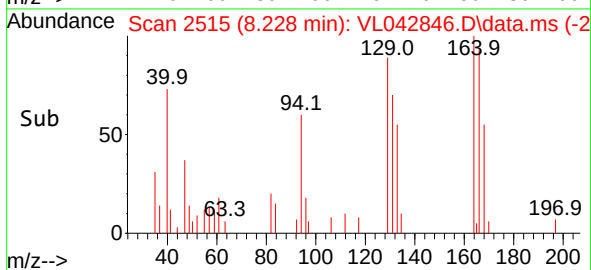
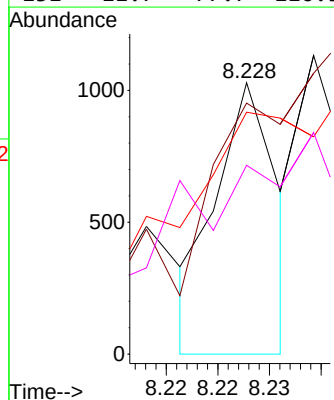
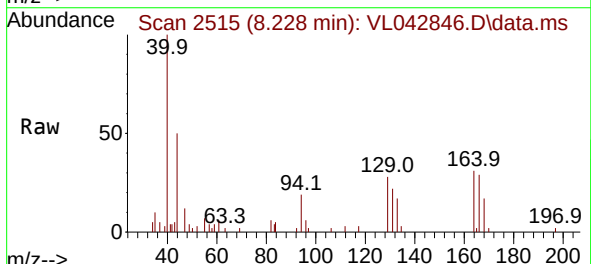
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

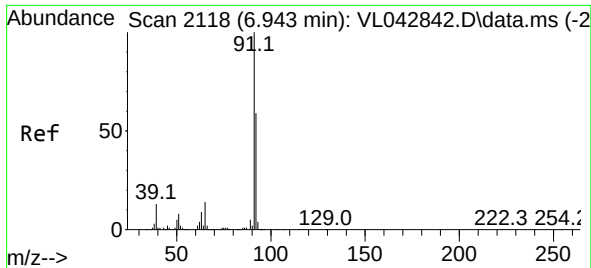
Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
58 0.0 41.0 61.6#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.031 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. -0.007 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 164 Resp: 425
Ion Ratio Lower Upper
164 100
166 104.7 96.5 144.7
129 62.6 81.8 122.6#
131 11.7 77.7 116.5#

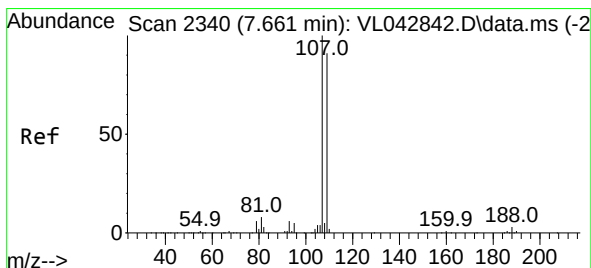
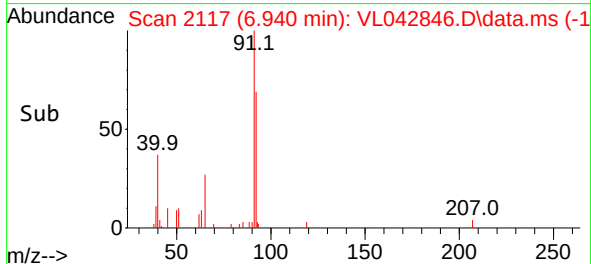
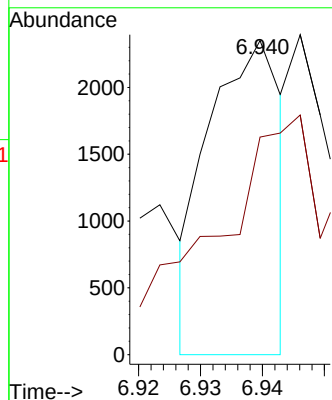
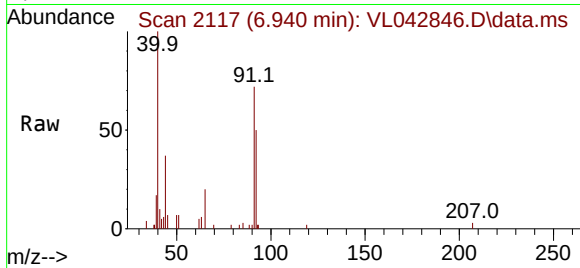




#53
Toluene
Concen: 0.043 ppbv
RT: 6.940 min Scan# 2118
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

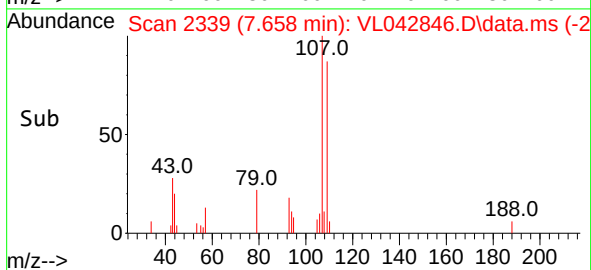
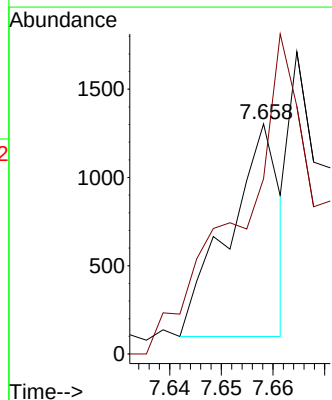
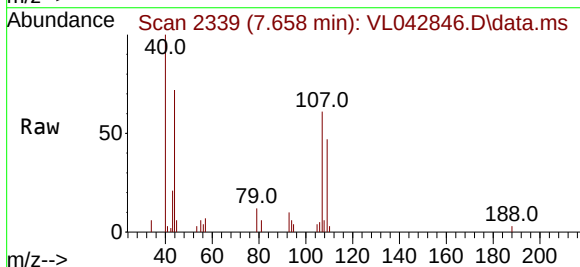
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

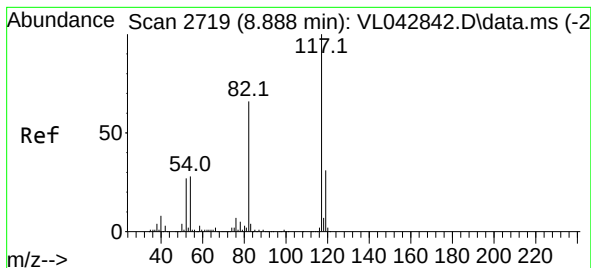
Tgt Ion: 91 Resp: 1918
Ion Ratio Lower Upper
91 100
92 0.0 47.8 71.6#



#54
1,2-Dibromoethane
Concen: 0.039 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 107 Resp: 828
Ion Ratio Lower Upper
107 100
109 63.7 72.5 108.7#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2719

Delta R.T. -0.000 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

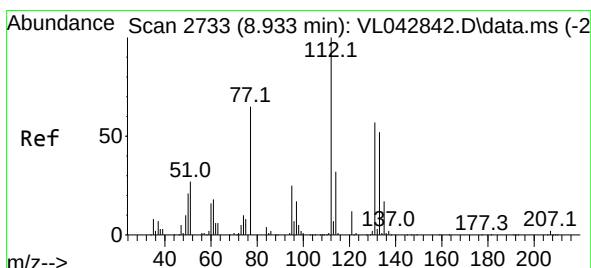
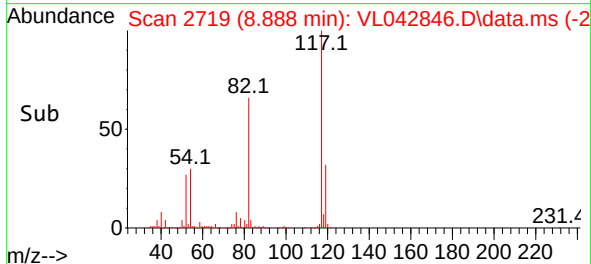
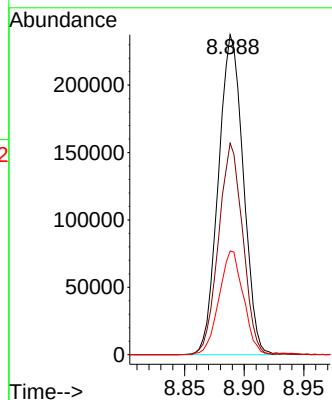
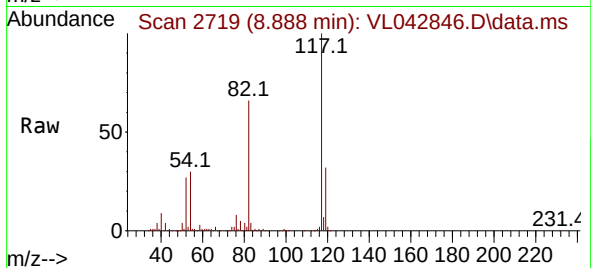
Tgt Ion:117 Resp: 345073

Ion Ratio Lower Upper

117 100

82 64.3 54.6 81.8

119 32.2 25.9 38.9



#56

1,1,1,2-Tetrachloroethane

Concen: 0.032 ppbv

RT: 8.937 min Scan# 2734

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

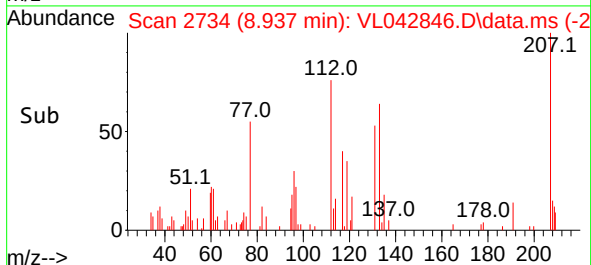
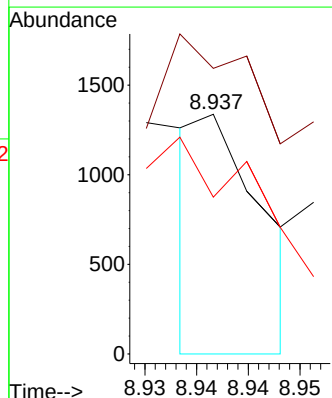
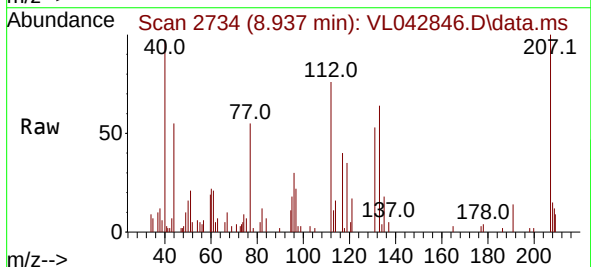
Tgt Ion:131 Resp: 573

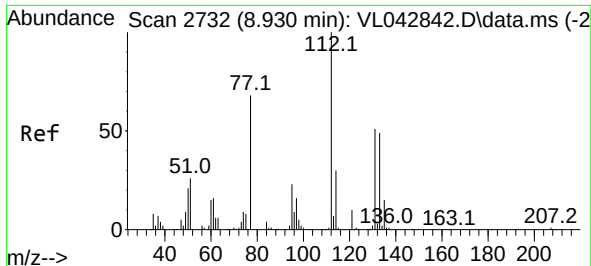
Ion Ratio Lower Upper

131 100

133 500.2 77.4 116.0#

119 0.0 51.2 76.8#

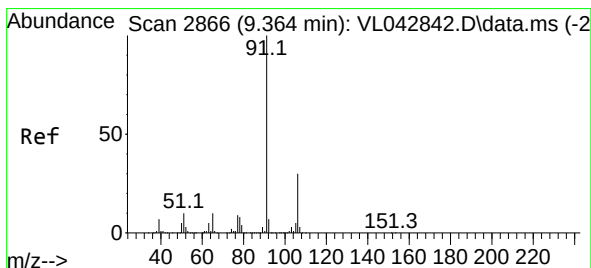
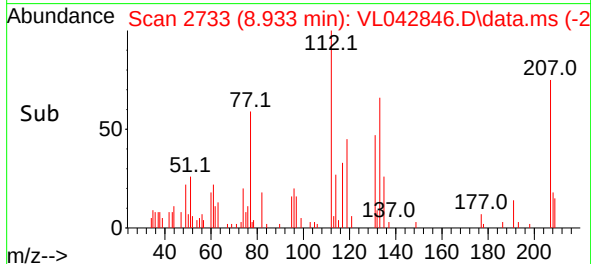
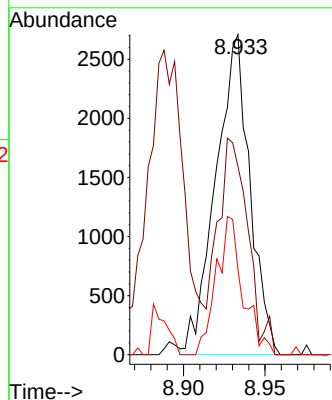
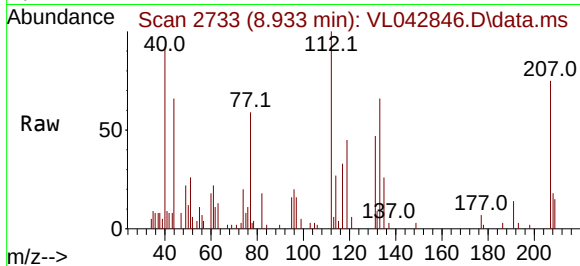




#57
Chlorobenzene
Concen: 0.120 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

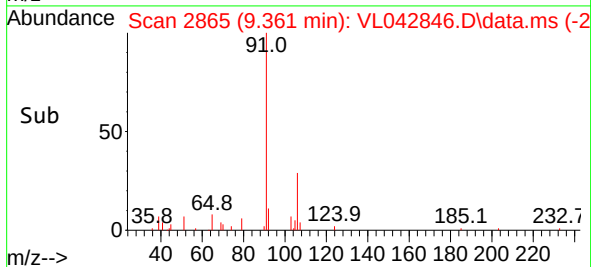
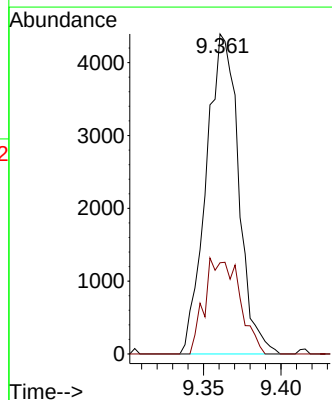
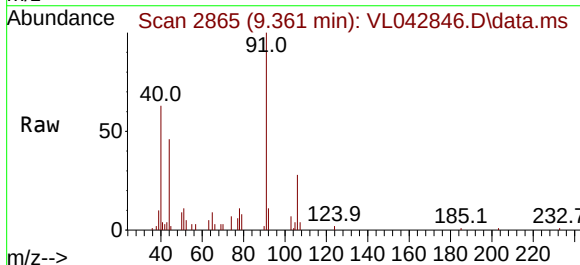
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

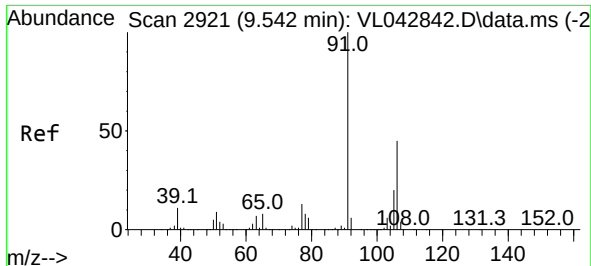
Tgt Ion:112 Resp: 3936
Ion Ratio Lower Upper
112 100
77 62.3 55.5 83.3
114 26.7 27.2 33.2#



#58
Ethyl Benzene
Concen: 0.105 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 91 Resp: 6413
Ion Ratio Lower Upper
91 100
106 28.5 23.9 35.9





#59

m/p-Xylene

Concen: 0.091 ppbv

RT: 9.539 min Scan# 2921

Delta R.T. -0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

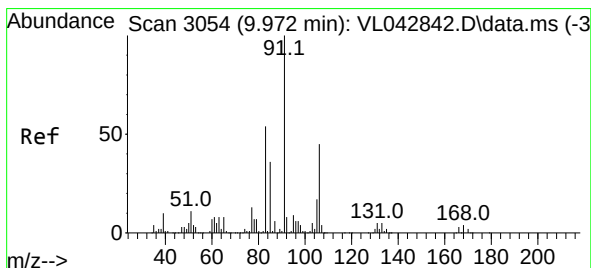
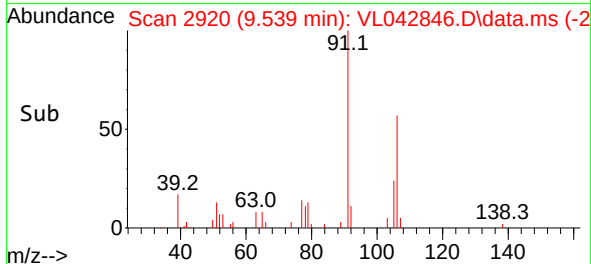
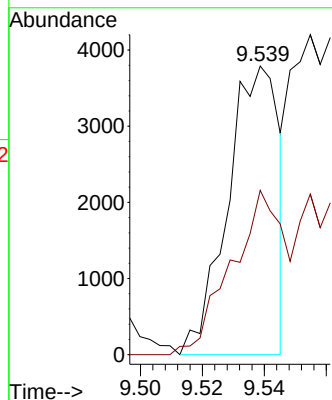
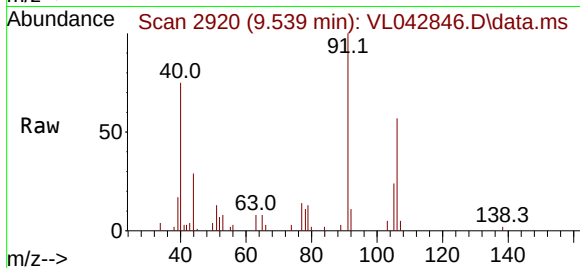
VSTDIC0.1

Tgt Ion: 91 Resp: 4356

Ion Ratio Lower Upper

91 100

106 114.3 0.0 0.0#



#60

o-Xylene

Concen: 0.106 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. -0.000 min

Lab File: VL042846.D

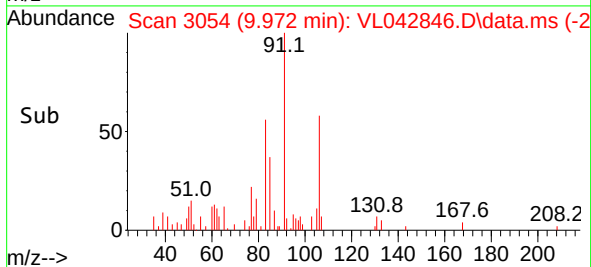
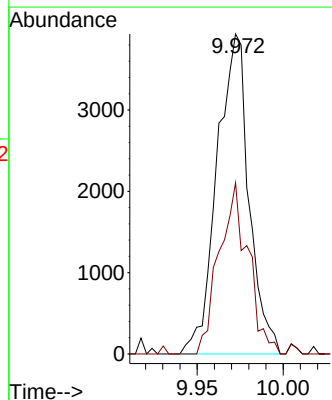
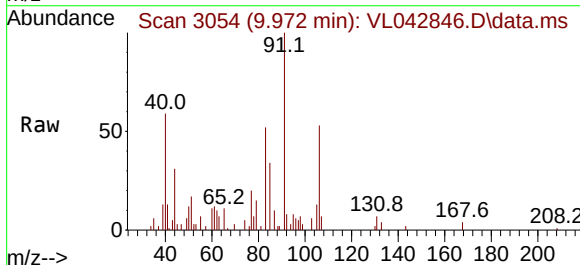
Acq: 13 Aug 2025 10:53

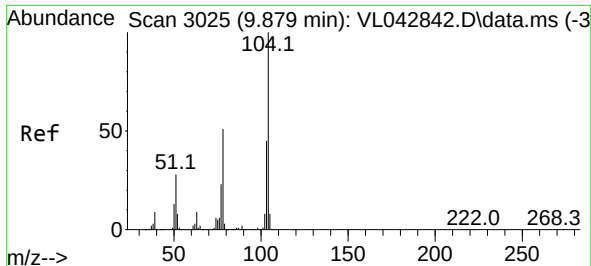
Tgt Ion: 91 Resp: 5090

Ion Ratio Lower Upper

91 100

106 49.7 21.8 65.4

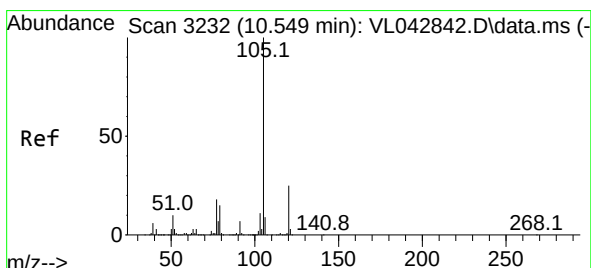
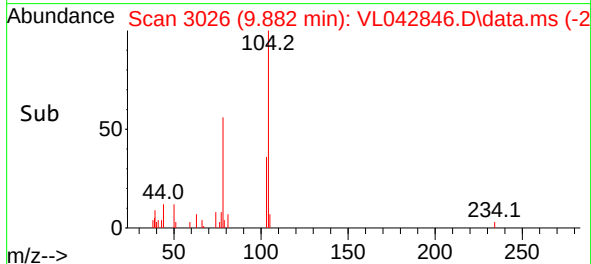
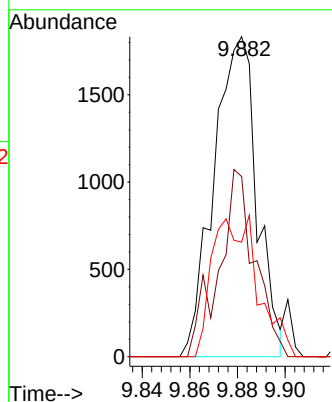
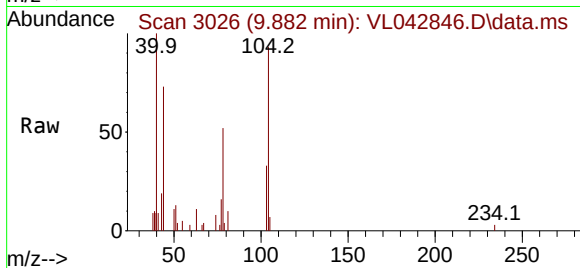




#61
Styrene
Concen: 0.103 ppbv
RT: 9.882 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

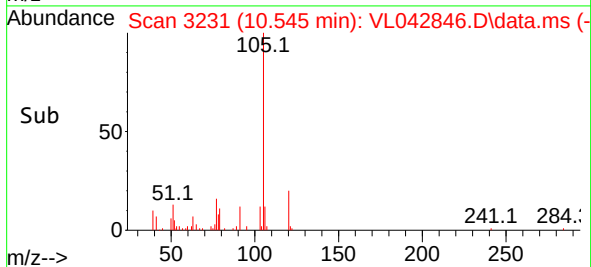
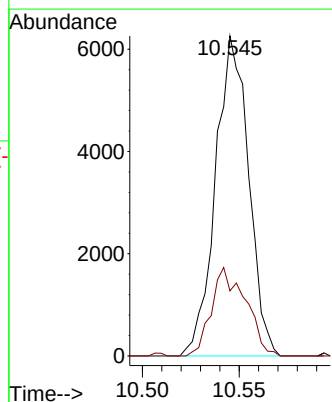
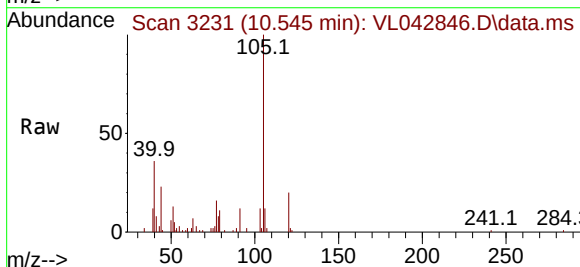
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

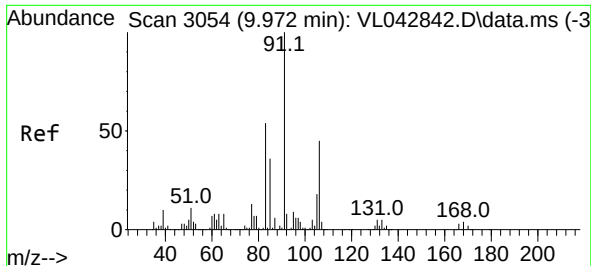
Tgt Ion:104 Resp: 2306
Ion Ratio Lower Upper
104 100
78 48.8 40.6 61.0
103 46.2 37.7 56.5



#62
Isopropylbenzene
Concen: 0.106 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:105 Resp: 7444
Ion Ratio Lower Upper
105 100
120 28.9 20.6 30.8

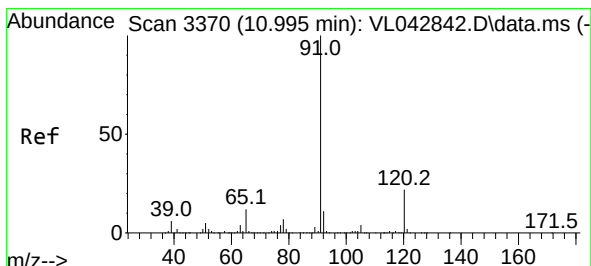
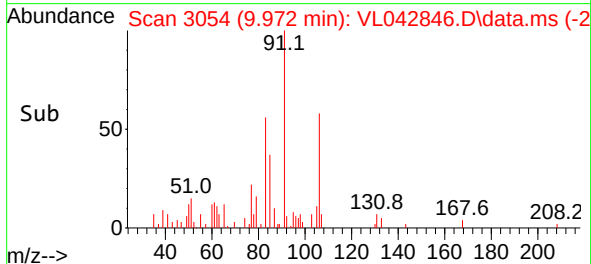
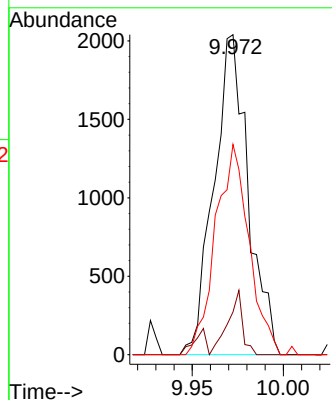
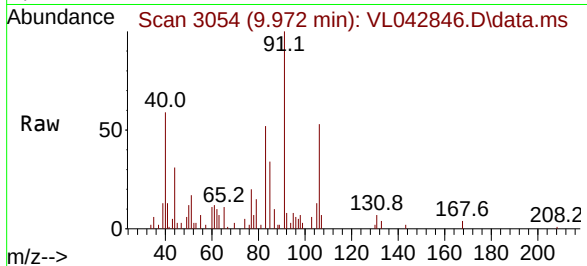




#63
1,1,2,2-Tetrachloroethane
Concen: 0.102 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

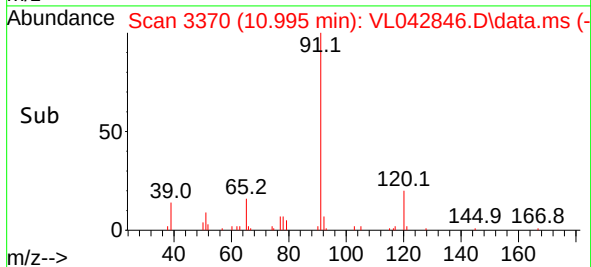
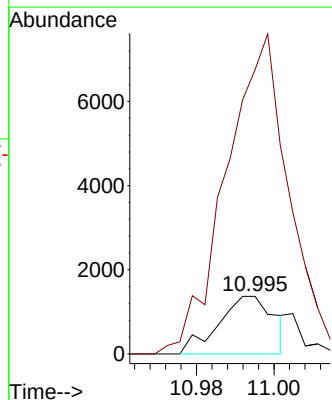
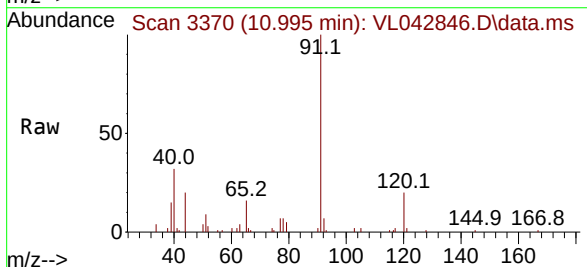
Instrument : MSVOA_1
ClientSampleId : VSTDIC0.1

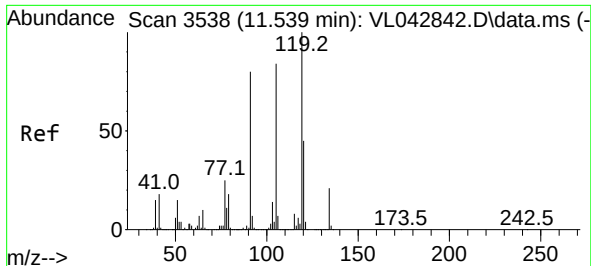
Tgt Ion: 83 Resp: 2672
Ion Ratio Lower Upper
83 100
131 11.4 4.8 14.3
85 64.3 32.3 96.8



#64
n-propylbenzene
Concen: 0.077 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:120 Resp: 1372
Ion Ratio Lower Upper
120 100
91 640.0 375.8 563.6#

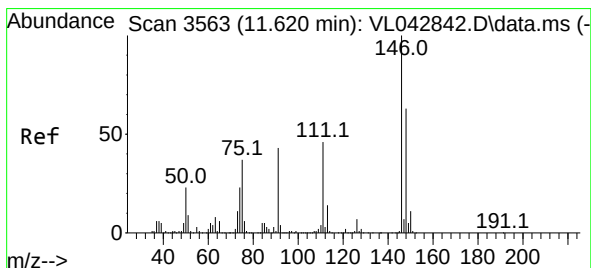
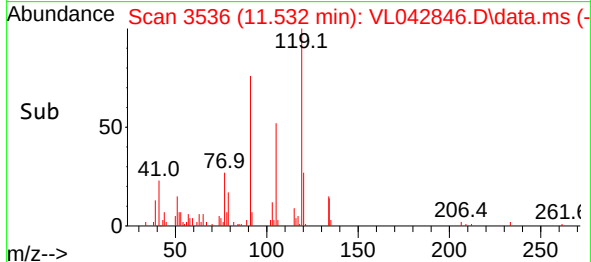
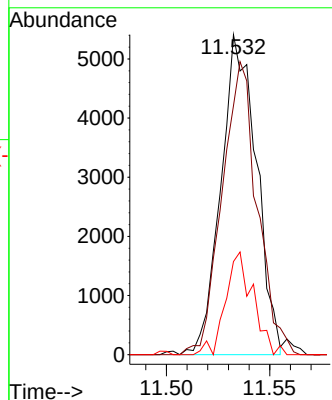
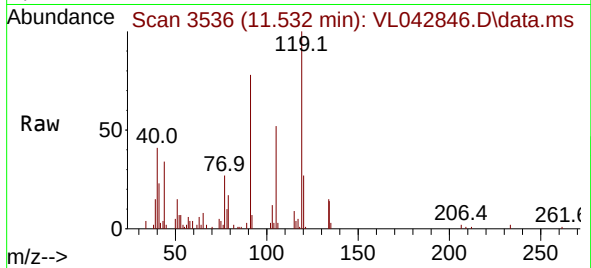




#65
tert-Butylbenzene
Concen: 0.104 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.006 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

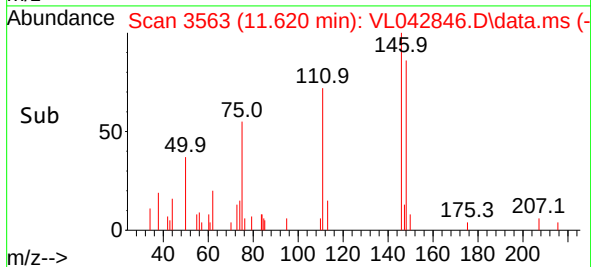
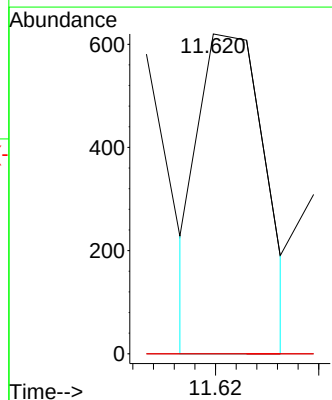
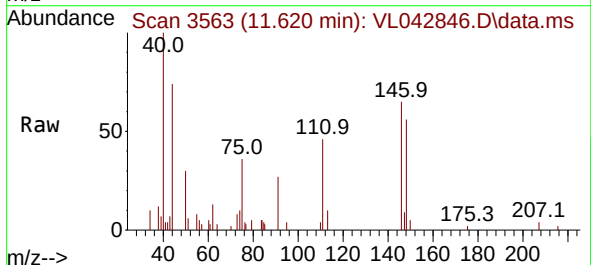
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

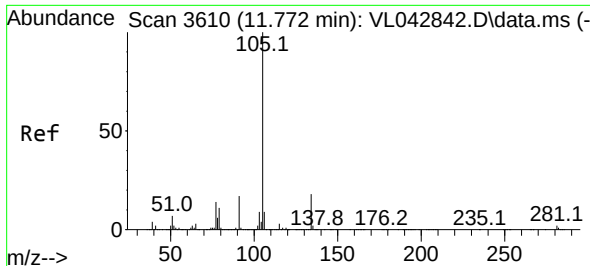
Tgt Ion:	119	Resp:	6442
Ion	Ratio	Lower	Upper
119	100		
91	91.1	63.9	95.9
134	25.4	17.0	25.4



#66
Benzyl Chloride
Concen: 0.035 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:	91	Resp:	276
Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.2	21.4#
128	0.0	5.0	7.6#

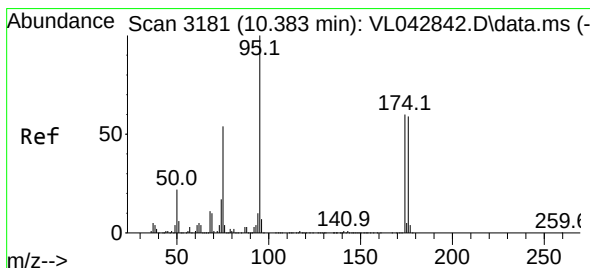
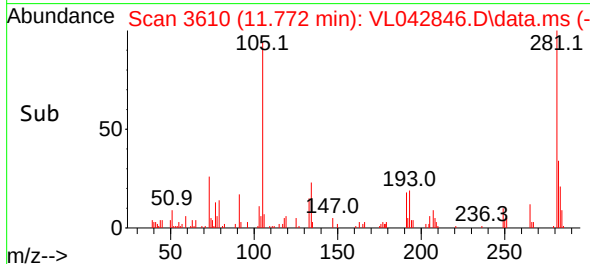
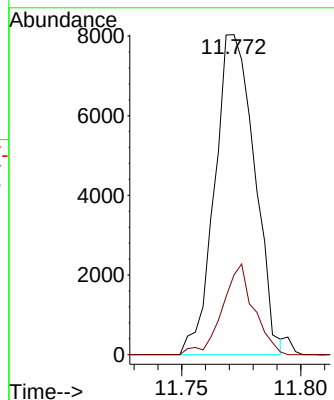
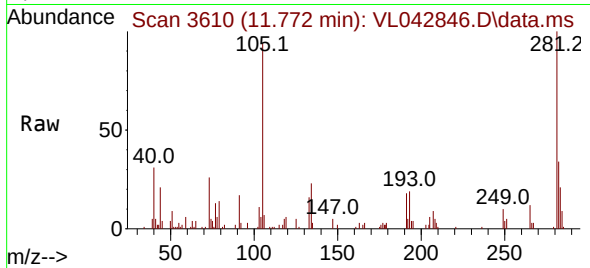




#67
 sec-Butylbenzene
 Concen: 0.107 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

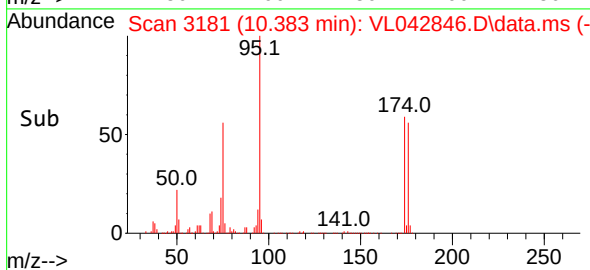
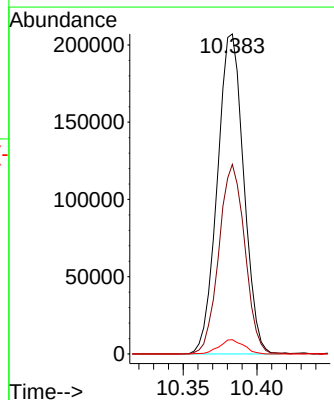
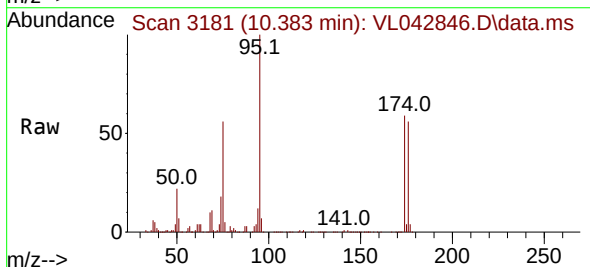
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

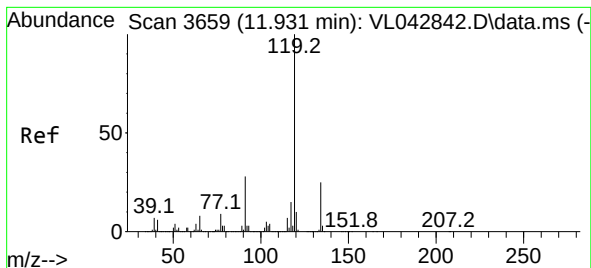
Tgt Ion:105 Resp: 9332
 Ion Ratio Lower Upper
 105 100
 134 22.4 14.9 22.3#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.948 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. -0.000 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Tgt Ion: 95 Resp: 257439
 Ion Ratio Lower Upper
 95 100
 174 58.3 48.4 72.6
 175 4.2 3.8 5.8

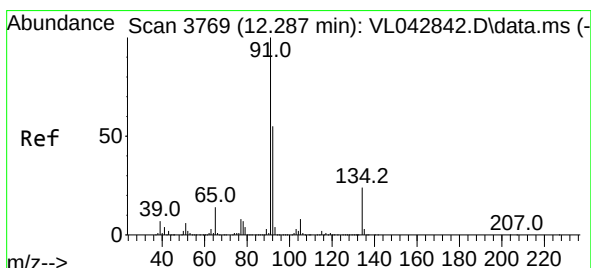
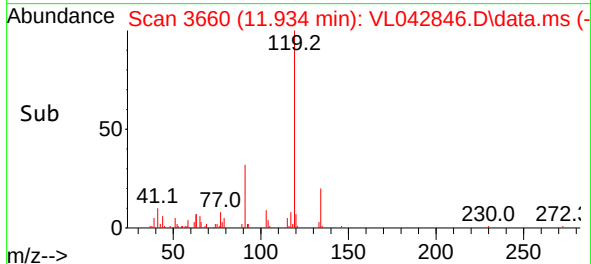
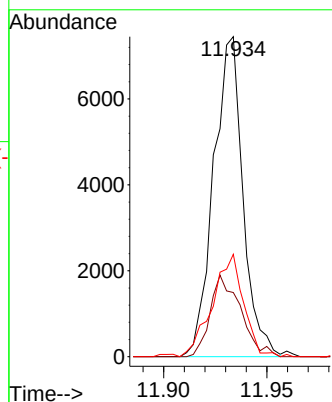
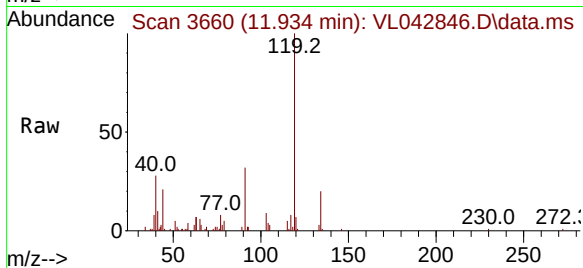




#69
 p-Isopropyltoluene
 Concen: 0.099 ppbv
 RT: 11.934 min Scan# 3660
 Delta R.T. 0.003 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

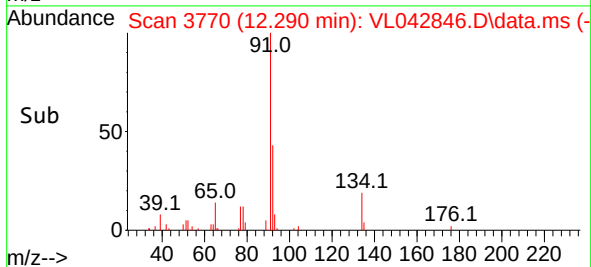
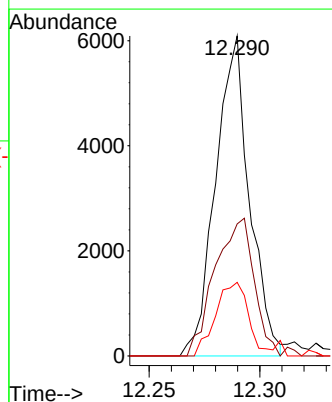
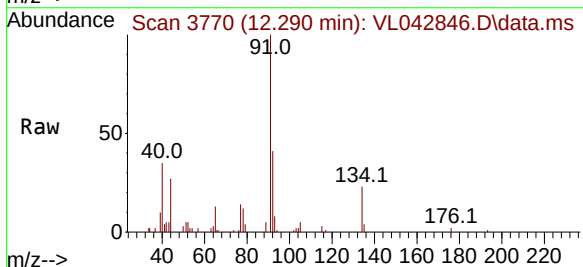
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

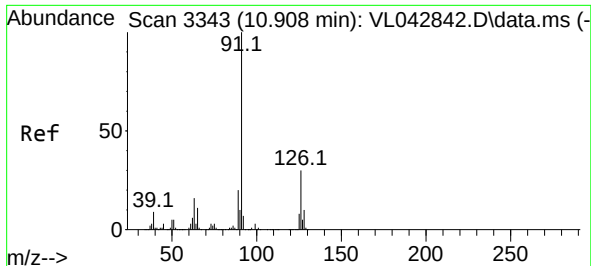
Tgt Ion:119 Resp: 7360
 Ion Ratio Lower Upper
 119 100
 134 26.5 20.6 30.8
 91 34.5 22.6 34.0#



#70
 n-Butylbenzene
 Concen: 0.087 ppbv
 RT: 12.290 min Scan# 3770
 Delta R.T. 0.003 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Tgt Ion: 91 Resp: 6458
 Ion Ratio Lower Upper
 91 100
 92 50.7 44.6 66.8
 134 24.0 19.0 28.4

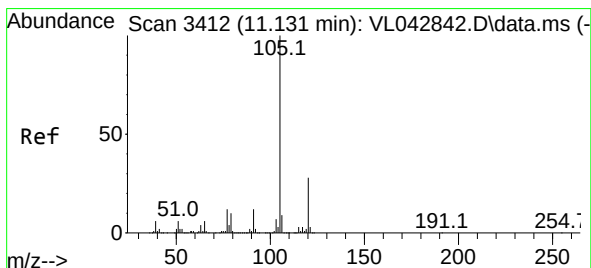
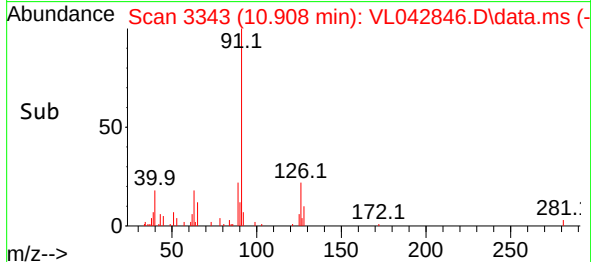
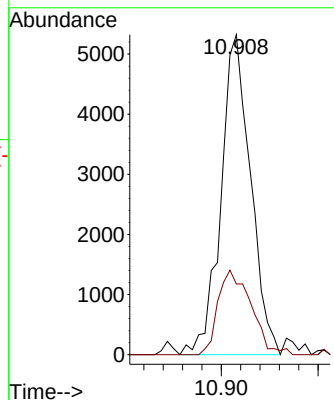
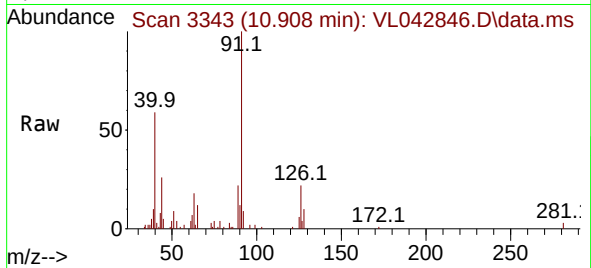




#71
2-Chlorotoluene
Concen: 0.104 ppbv
RT: 10.908 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

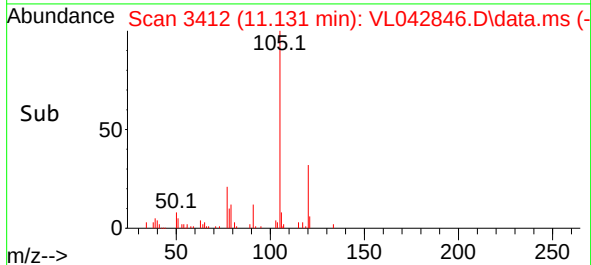
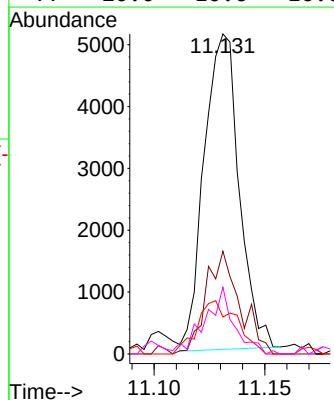
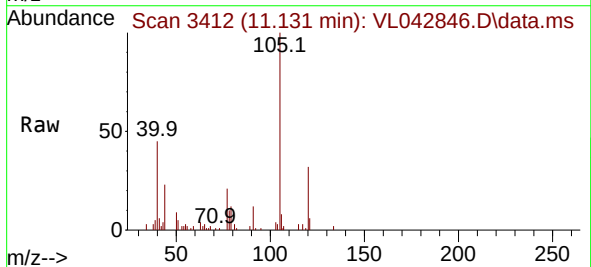
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

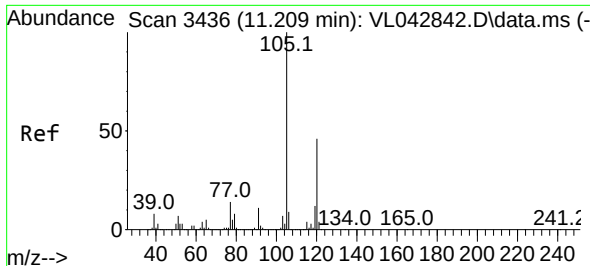
Tgt Ion: 91 Resp: 5660
Ion Ratio Lower Upper
91 100
126 29.8 12.0 47.8



#72
4-Ethyltoluene
Concen: 0.097 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 105 Resp: 5621
Ion Ratio Lower Upper
105 100
120 32.0 23.4 35.2
91 21.2 9.8 14.6#
77 20.0 10.6 16.0#

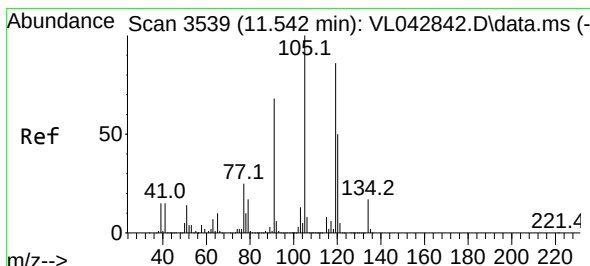
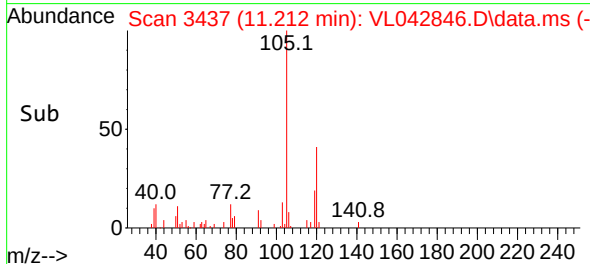
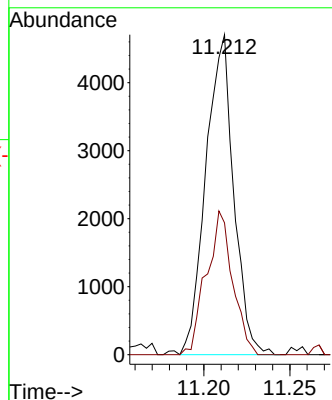
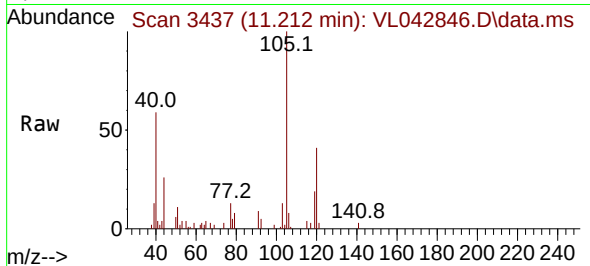




#73
1,3,5-Trimethylbenzene
Concen: 0.107 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

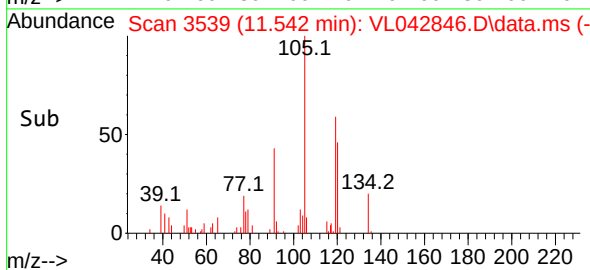
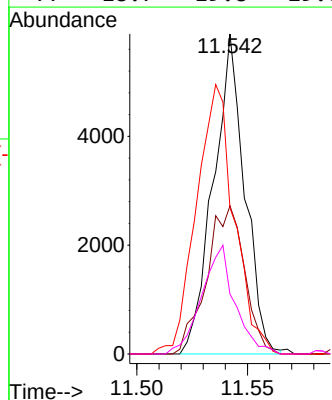
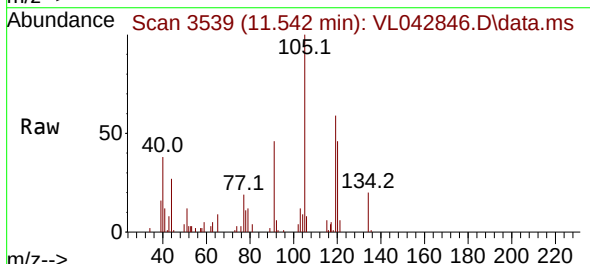
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

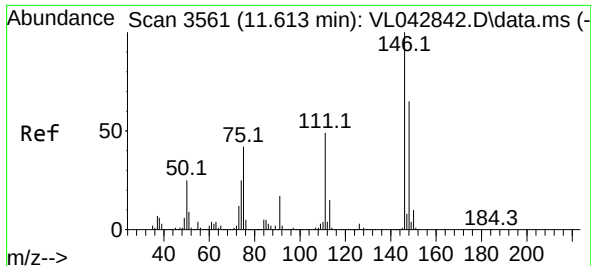
Tgt Ion:105 Resp: 5297
Ion Ratio Lower Upper
105 100
120 41.2 36.6 54.8



#74
1,2,4-Trimethylbenzene
Concen: 0.106 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:105 Resp: 5786
Ion Ratio Lower Upper
105 100
120 46.3 39.8 59.6
91 45.6 54.2 81.4#
77 18.7 19.8 29.6#

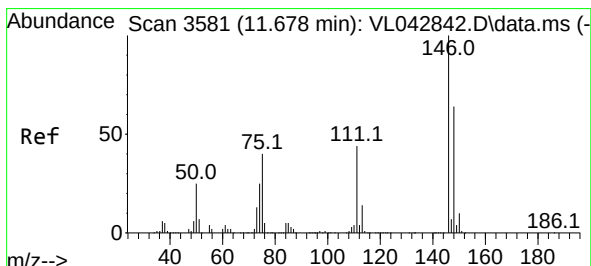
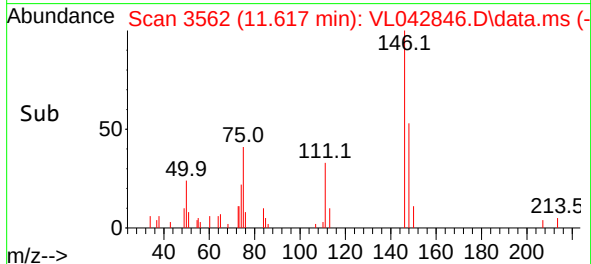
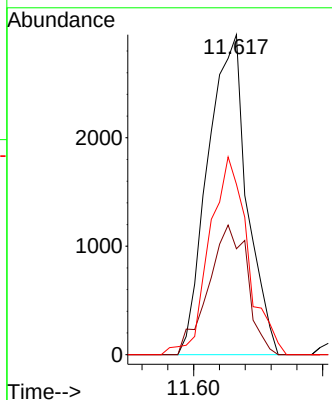
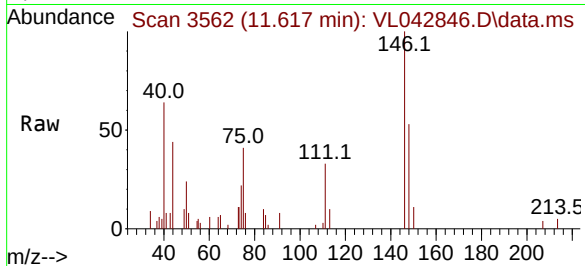




#75
1,3-Dichlorobenzene
Concen: 0.101 ppbv
RT: 11.617 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

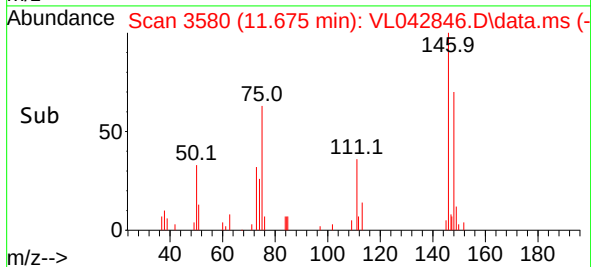
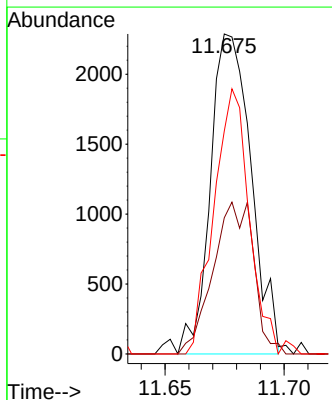
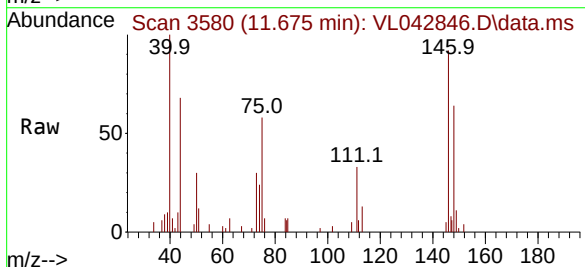
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

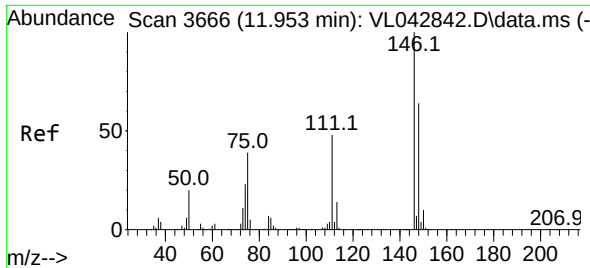
Tgt Ion:146 Resp: 3112
Ion Ratio Lower Upper
146 100
111 40.1 23.9 71.7
148 60.4 31.4 94.0



#76
1,4-Dichlorobenzene
Concen: 0.087 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:146 Resp: 2717
Ion Ratio Lower Upper
146 100
111 47.4 22.7 68.1
148 72.9 31.8 95.3

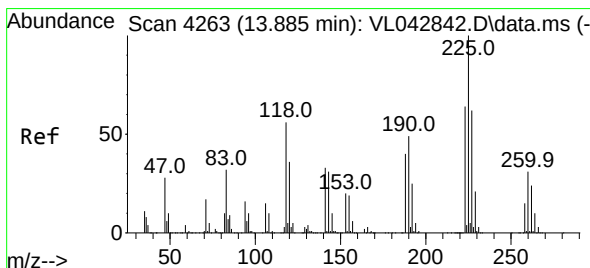
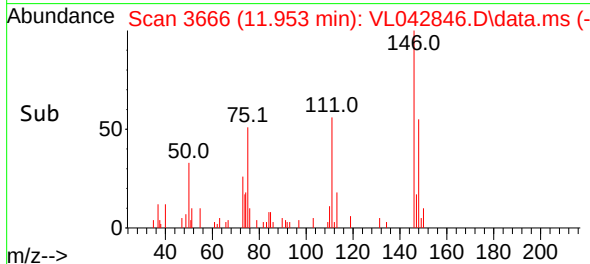
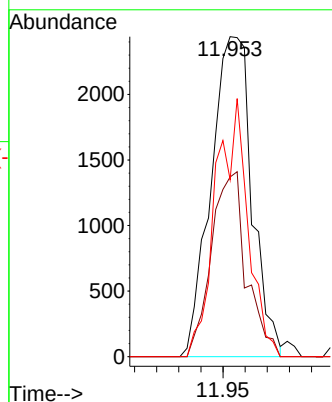
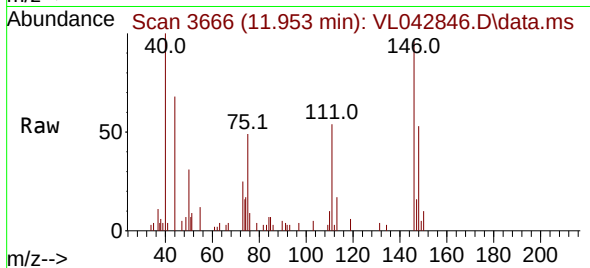




#77
1,2-Dichlorobenzene
Concen: 0.104 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

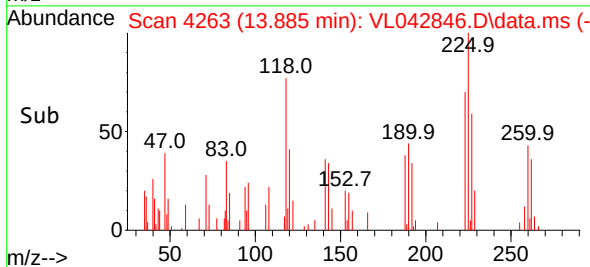
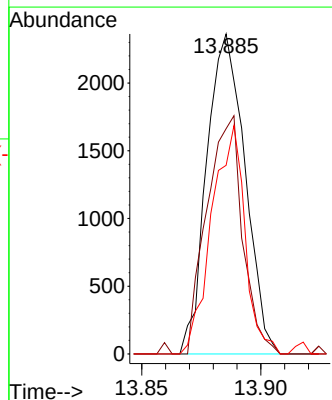
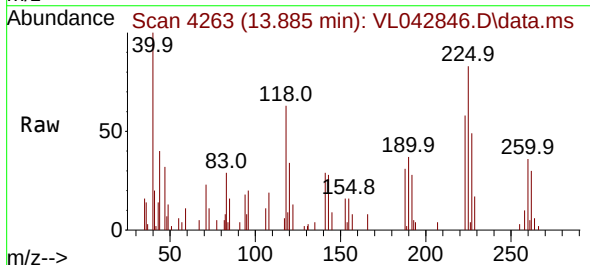
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

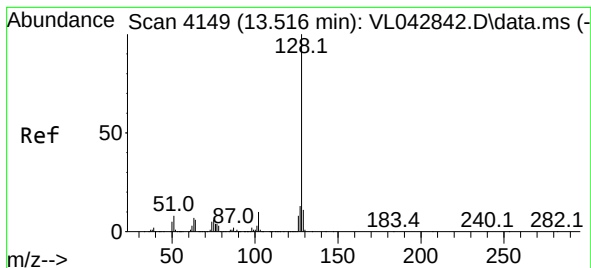
Tgt Ion:	146	Resp:	3151
Ion Ratio	Lower	Upper	
146	100		
111	49.2	24.6	74.0
148	63.3	32.0	96.0



#78
Hexachloro-1,3-Butadiene
Concen: 0.106 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:	225	Resp:	2639
Ion Ratio	Lower	Upper	
225	100		
223	70.3	51.4	77.2
227	62.8	51.9	77.9





#79

Naphthalene

Concen: 0.075 ppbv

RT: 13.520 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

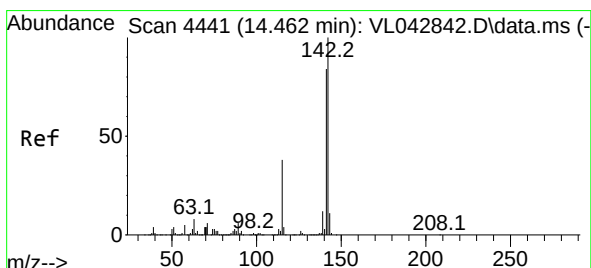
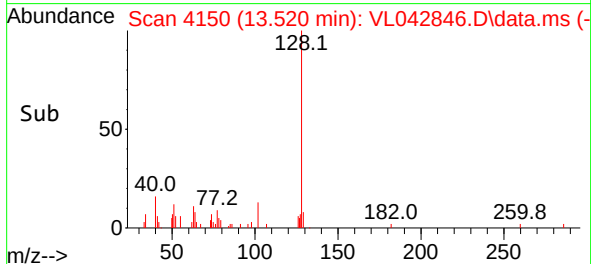
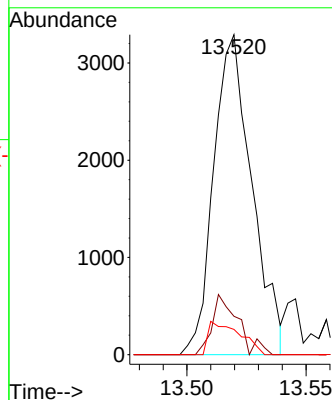
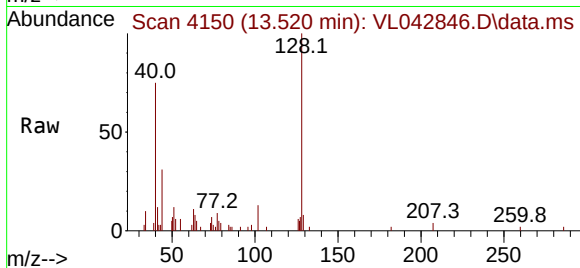
Tgt Ion:128 Resp: 3670

Ion Ratio Lower Upper

128 100

127 12.0 10.6 16.0

129 7.9 8.9 13.3#



#80

Naphthalene,2-methyl-

Concen: 0.037 ppbv

RT: 14.471 min Scan# 4444

Delta R.T. 0.010 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

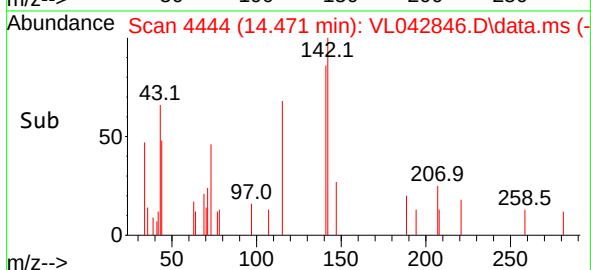
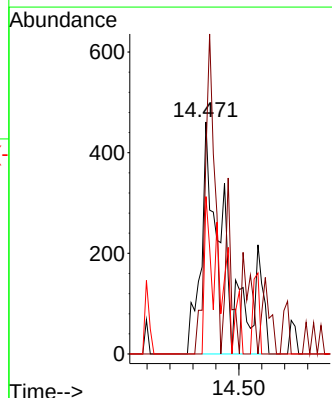
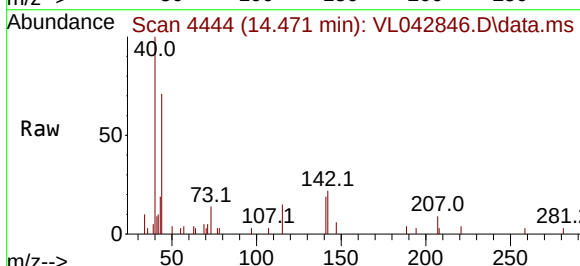
Tgt Ion:142 Resp: 682

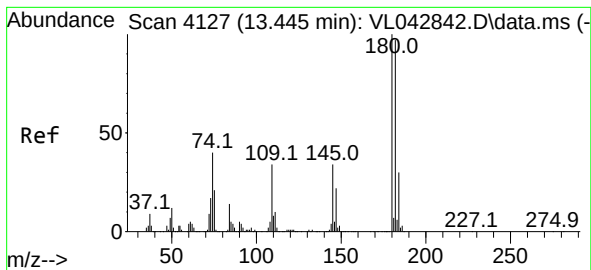
Ion Ratio Lower Upper

142 100

141 104.0 67.0 100.6#

115 43.4 30.9 46.3

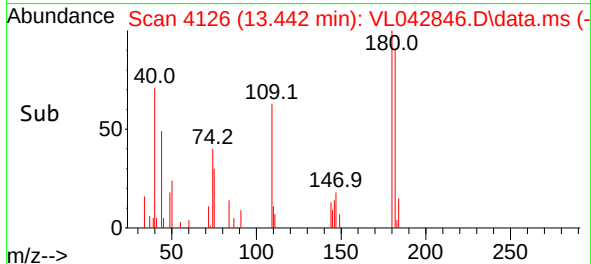
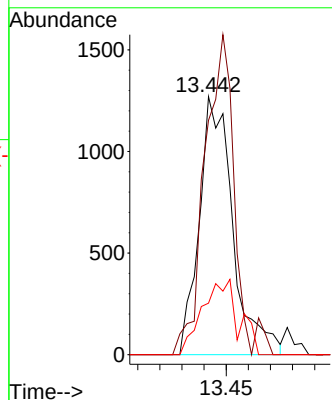
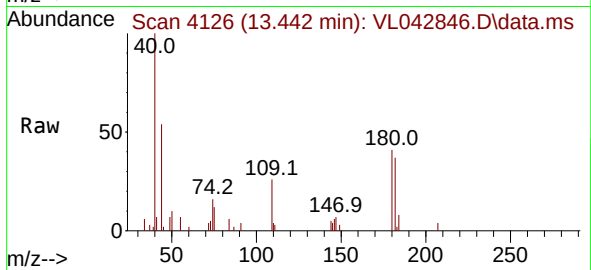




#81
 1,2,4-Trichlorobenzene
 Concen: 0.054 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042846.D
 Acq: 13 Aug 2025 10:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion:180 Resp: 1342
 Ion Ratio Lower Upper
 180 100
 182 109.0 76.9 115.3
 184 31.3 24.5 36.7



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

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 26 06:05:16 2022
 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
2) Dichlorodifluoromethane	1.557	85	549	0.031	ppbv	92
3) Chlorodifluoromethane	1.479	51	868	0.044	ppbv #	83
4) Chloromethane	1.537	50	498	0.069	ppbv #	70
5) Vinyl Chloride	1.583	62	268	0.037	ppbv #	81
6) Bromomethane	1.667	94	184	0.064	ppbv #	52
7) Chloroethane	1.706	64	240	0.086	ppbv #	1
8) Dichlorotetrafluoroethane	1.557	85	549	0.037	ppbv	85
9) Propene	1.602	41	687	0.080	ppbv	93
10) Heptane	4.994	43	492	0.021	ppbv #	1
11) Trichlorofluoromethane	1.884	101	420	0.024	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.143	101	592	0.042	ppbv #	78
13) Ethanol	1.722	45	370	0.435	ppbv #	32
14) Bromoethene	1.787	108	243	0.047	ppbv #	66
15) Acetone	1.845	43	1759	0.108	ppbv #	44
16) 1,3-Butadiene	1.612	39	303	0.041	ppbv #	1
17) tert-Butyl alcohol	2.039	59	167	0.009	ppbv #	71
18) 1,1-Dichloroethene	2.042	96	464	0.075	ppbv #	27
19) Isopropyl Alcohol	1.893	45	945	0.097	ppbv #	65
20) Methylene Chloride	2.068	84	2076	0.305	ppbv #	73
21) Allyl Chloride	2.104	41	953	0.083	ppbv #	50
22) trans-1,2-Dichloroethene	2.350	96	317	0.046	ppbv #	21
23) Vinyl Acetate	2.470	43	629	0.029	ppbv #	36
24) 1,1-Dichloroethane	2.411	63	388	0.027	ppbv #	71
25) Ethyl Acetate	2.839	43	126	0.003	ppbv #	1
26) Hexane	2.826	57	483	0.027	ppbv #	1
27) Carbon Disulfide	2.159	76	509	0.029	ppbv #	1
28) Methyl tert-Butyl Ether	2.450	73	517	0.056	ppbv #	1
29) Chloroform	2.855	83	902	0.035	ppbv	100
30) Cyclohexane	3.861	84	352	0.022	ppbv #	1
31) cis-1,2-Dichloroethene	2.729	61	497	0.027	ppbv #	73
32) 1,1,1-Trichloroethane	3.379	97	493	0.018	ppbv #	31
34) 2-Butanone	2.567	43	422	0.016	ppbv #	52
35) Carbon Tetrachloride	3.774	117	756	0.028	ppbv #	68
36) Benzene	3.670	78	1185	0.032	ppbv #	90
37) 1,2-Dichloroethane	3.227	62	792	0.041	ppbv #	94
38) Trichloroethene	4.560	130	363	0.021	ppbv #	45
39) 1,2-Dichloropropane	3.968	63	93873	6.881	ppbv #	27
40) 1,4-Dioxane	4.641	88	105	0.016	ppbv #	1
41) Tetrahydrofuran	3.059	42	127	0.009	ppbv #	36
42) Bromodichloromethane	4.499	83	271	0.009	ppbv #	91
43) Methyl Methacrylate	4.900	69	270	0.018	ppbv #	1
44) 2,2,4-Trimethylpentane	4.651	57	726	0.012	ppbv #	43
45) t-1,3-Dichloropropene	6.428	75	162	0.009	ppbv #	1

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 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

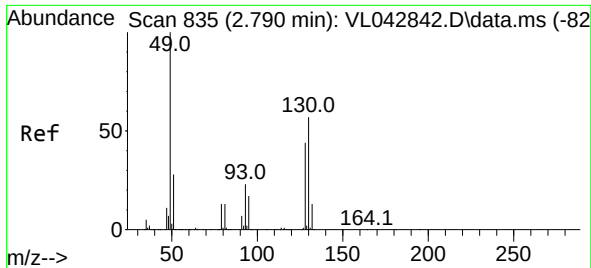
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.612	75	343	0.016	ppbv #	65
47) 1,1,2-Trichloroethane	6.593	97	30	0.002	ppbv #	27
48) Dibromochloromethane	7.399	129	593	0.025	ppbv	71
49) Bromoform	9.493	173	431	0.022	ppbv	93
50) 4-Methyl-2-Pentanone	5.768	43	54	0.002	ppbv #	38
51) 2-Hexanone	7.444	43	92	0.003	ppbv #	27
52) Tetrachloroethene	8.241	164	262	0.019	ppbv #	67
53) Toluene	6.855	91	39	0.001	ppbv	99
54) 1,2-Dibromoethane	7.668	107	313	0.015	ppbv #	56
56) 1,1,1,2-Tetrachloroethane	8.953	131	49	0.003	ppbv #	8
57) Chlorobenzene	8.943	112	561	0.017	ppbv #	70
58) Ethyl Benzene	9.529	91	267	0.004	ppbv	96
59) m/p-Xylene	9.542	91	1589	0.034	ppbv #	100
60) o-Xylene	9.975	91	1722	0.036	ppbv	90
61) Styrene	9.888	104	354	0.016	ppbv #	28
62) Isopropylbenzene	10.548	105	1945	0.028	ppbv #	87
63) 1,1,2,2-Tetrachloroethane	9.979	83	451	0.017	ppbv #	1
64) n-propylbenzene	10.998	120	470	0.027	ppbv #	63
65) tert-Butylbenzene	11.539	119	2234	0.037	ppbv #	98
66) Benzyl Chloride	11.626	91	27	0.003	ppbv #	65
67) sec-Butylbenzene	11.778	105	2703	0.032	ppbv #	64
69) p-Isopropyltoluene	11.934	119	2136	0.029	ppbv #	88
70) n-Butylbenzene	12.296	91	829	0.011	ppbv #	4
71) 2-Chlorotoluene	10.911	91	1870	0.035	ppbv	97
72) 4-Ethyltoluene	11.134	105	1543	0.027	ppbv #	81
73) 1,3,5-Trimethylbenzene	11.212	105	1716	0.035	ppbv	96
74) 1,2,4-Trimethylbenzene	11.545	105	1610	0.030	ppbv #	76
75) 1,3-Dichlorobenzene	11.623	146	182	0.006	ppbv #	23
76) 1,4-Dichlorobenzene	11.681	146	596	0.019	ppbv	70
77) 1,2-Dichlorobenzene	11.953	146	701	0.024	ppbv	87
78) Hexachloro-1,3-Butadiene	13.888	225	744	0.030	ppbv #	84
79) Naphthalene	13.523	128	998	0.021	ppbv #	87
80) Naphthalene,2-methyl-	14.536	142	73	0.004	ppbv #	78
81) 1,2,4-Trichlorobenzene	13.461	180	114	0.005	ppbv #	1

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

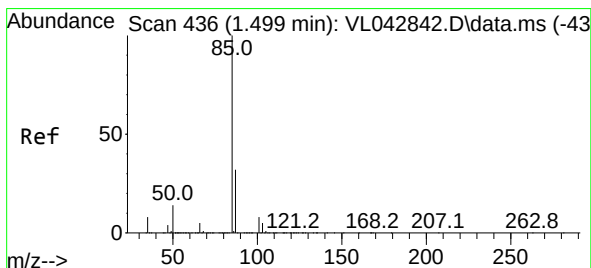
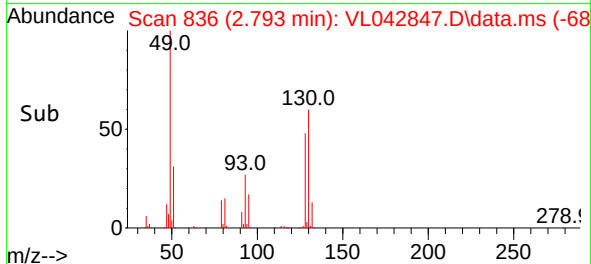
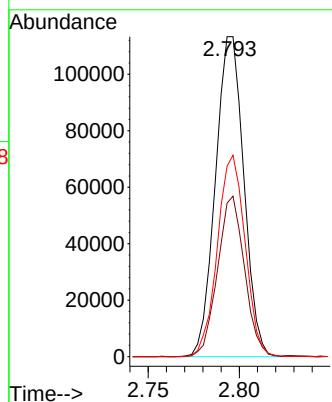
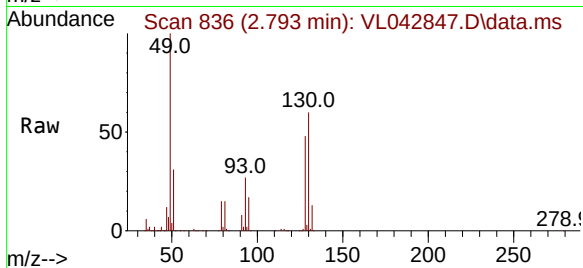
[illegible]



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

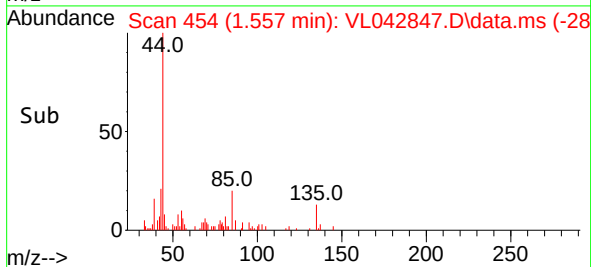
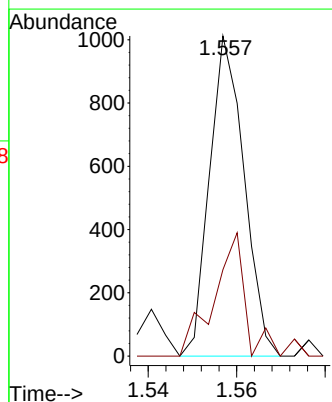
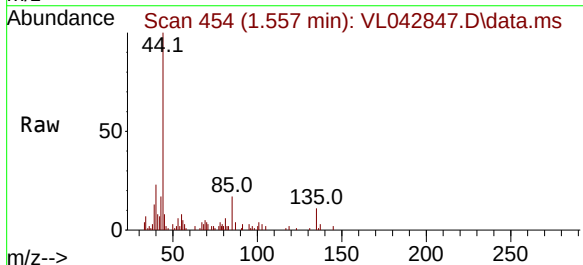
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ClientSampleId :
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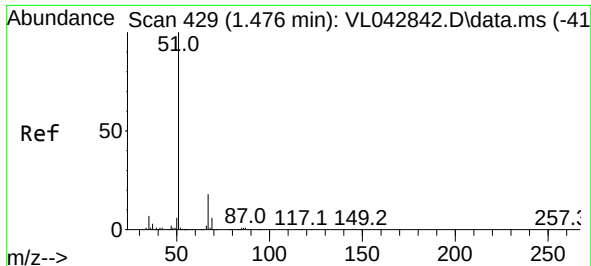
Tgt Ion: 49 Resp: 122705
Ion Ratio Lower Upper
49 100
128 47.7 23.7 71.1
130 61.6 30.6 91.6



#2
Dichlorodifluoromethane
Concen: 0.031 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.058 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 85 Resp: 549
Ion Ratio Lower Upper
85 100
87 27.0 25.3 37.9

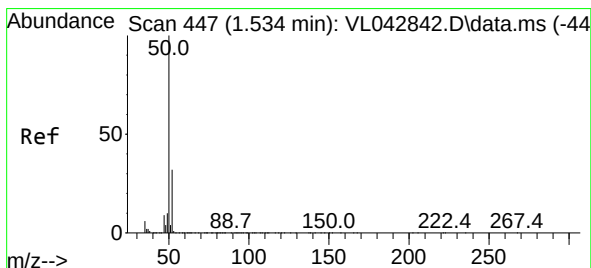
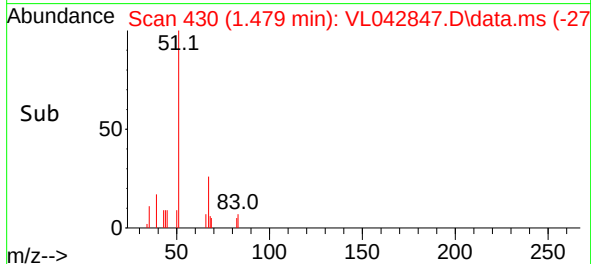
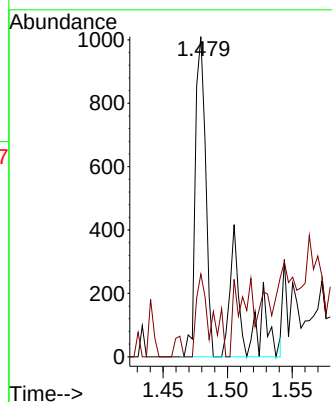
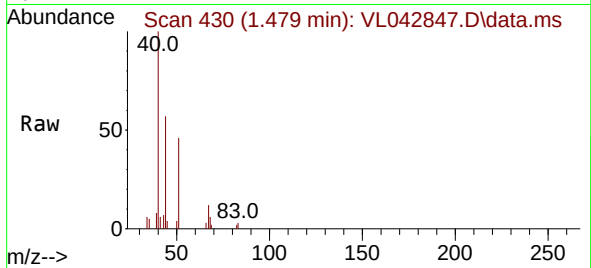




#3
Chlorodifluoromethane
Concen: 0.044 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

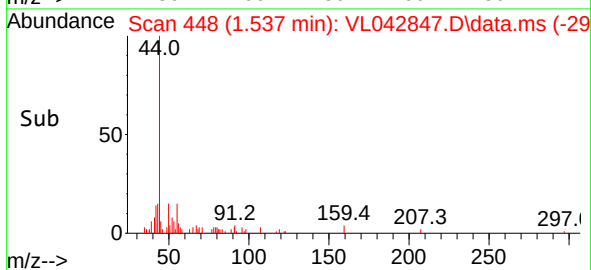
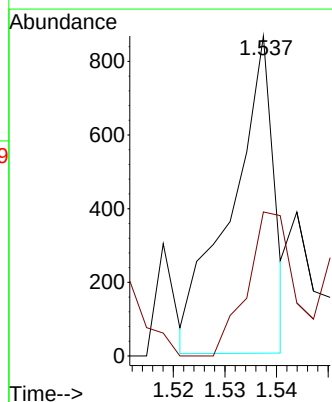
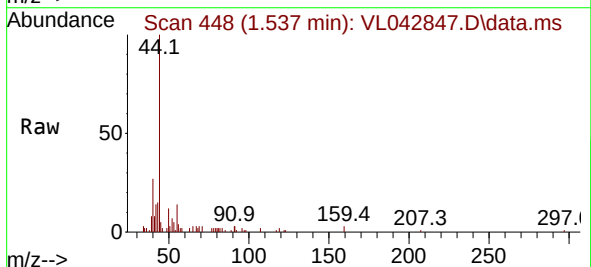
Instrument :
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ClientSampleId :
VSTDIC0.03

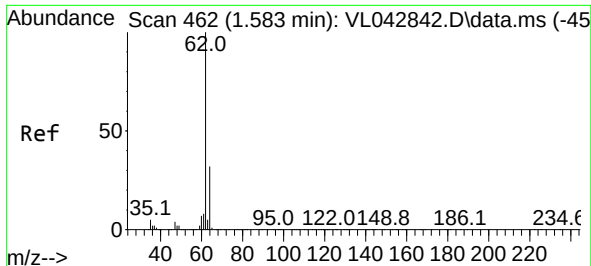
Tgt Ion: 51 Resp: 868
Ion Ratio Lower Upper
51 100
67 26.4 14.9 22.3#



#4
Chloromethane
Concen: 0.069 ppbv
RT: 1.537 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 50 Resp: 498
Ion Ratio Lower Upper
50 100
52 49.3 25.9 38.9#

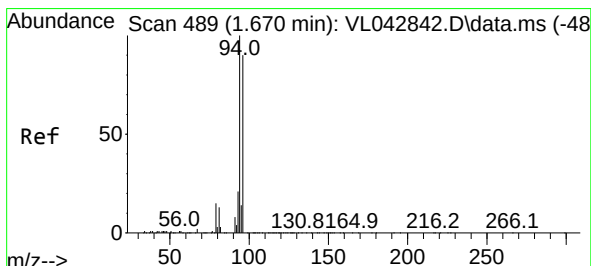
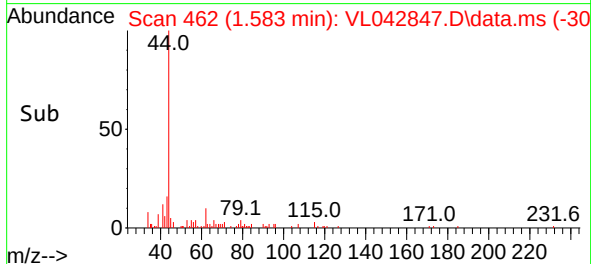
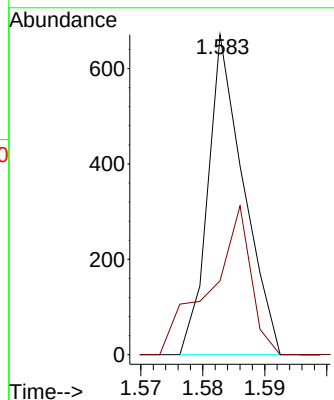
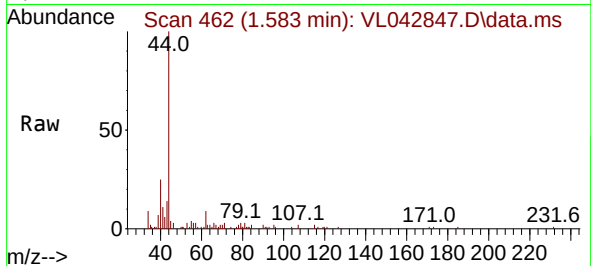




#5
 Vinyl Chloride
 Concen: 0.037 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

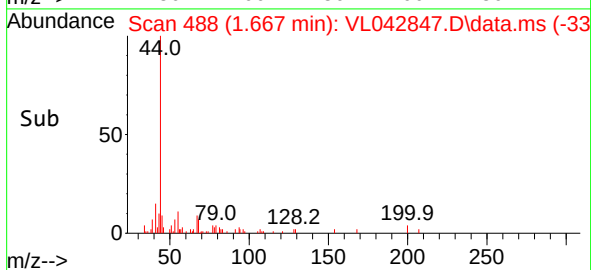
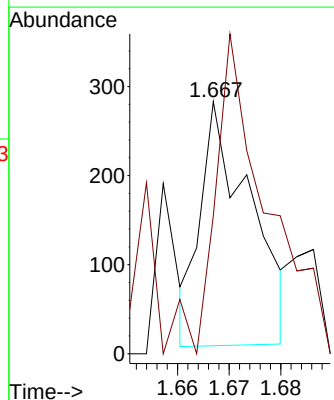
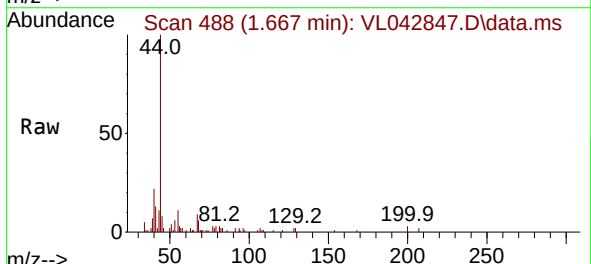
Instrument :
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 ClientSampleId :
 VSTDIC0.03

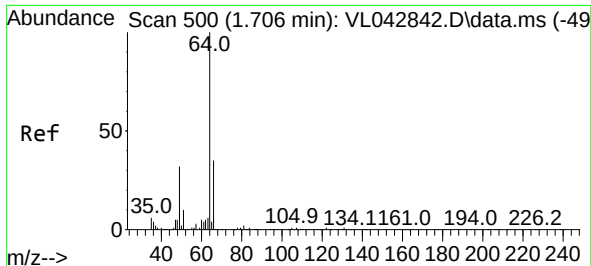
Tgt Ion: 62 Resp: 268
 Ion Ratio Lower Upper
 62 100
 64 21.2 25.4 38.2#



#6
 Bromomethane
 Concen: 0.064 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Tgt Ion: 94 Resp: 184
 Ion Ratio Lower Upper
 94 100
 96 45.2 72.1 108.1#

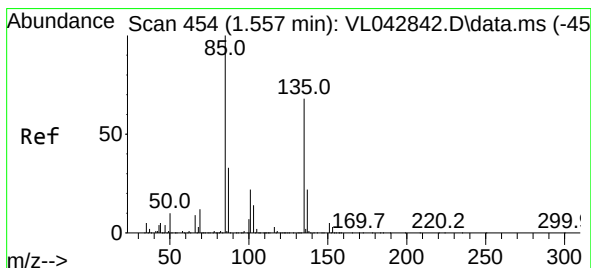
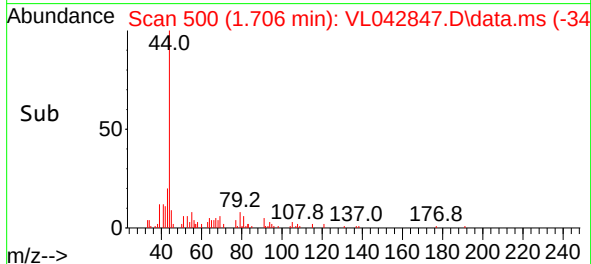
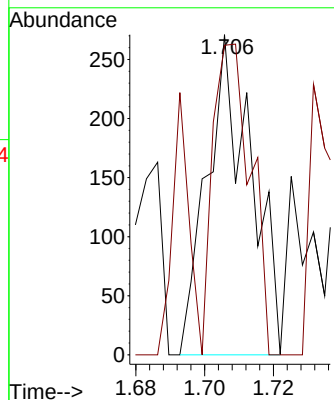
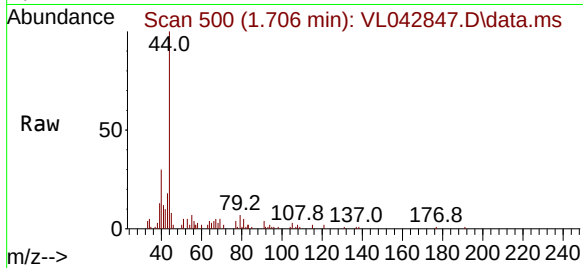




#7
Chloroethane
Concen: 0.086 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

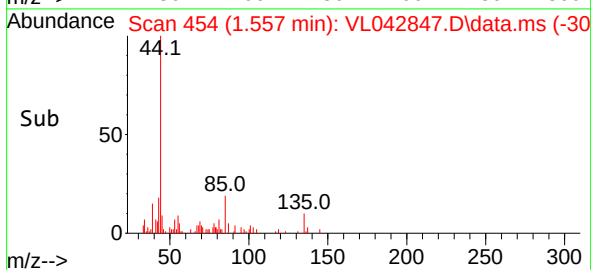
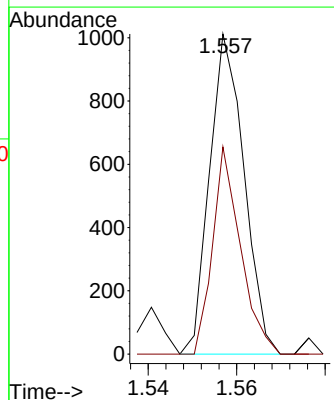
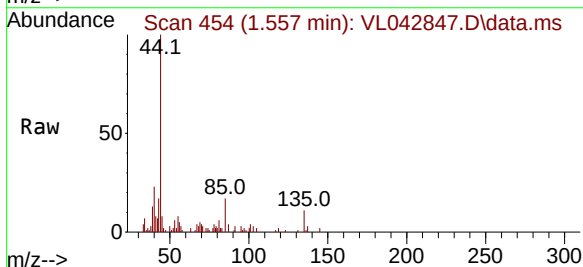
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

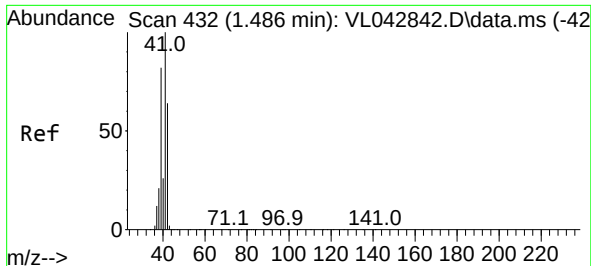
Tgt Ion: 64 Resp: 240
Ion Ratio Lower Upper
64 100
66 96.7 28.6 42.8#



#8
Dichlorotetrafluoroethane
Concen: 0.037 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 85 Resp: 549
Ion Ratio Lower Upper
85 100
135 52.3 51.2 76.8





#9

Propene

Concen: 0.080 ppbv

RT: 1.602 min Scan# 41

Delta R.T. 0.116 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

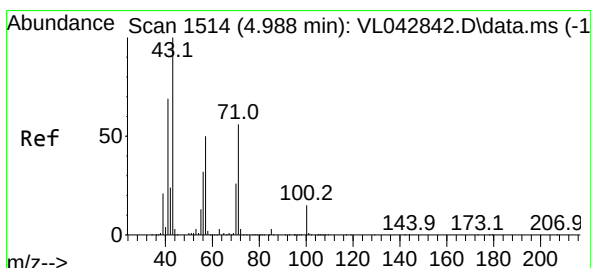
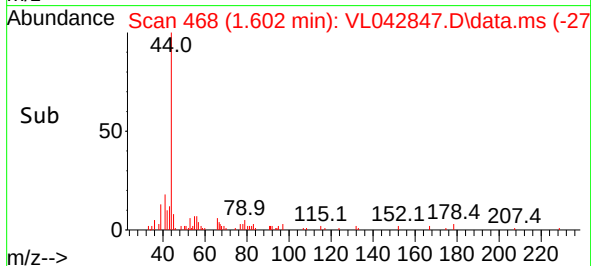
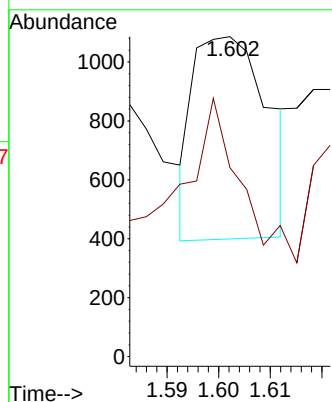
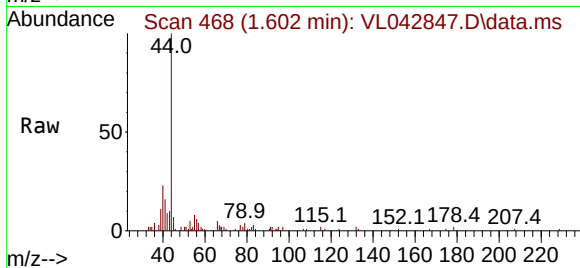
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Tgt Ion: 41 Resp: 687

Ion Ratio Lower Upper

41 100

42 72.1 53.0 79.4



#10

Heptane

Concen: 0.021 ppbv

RT: 4.994 min Scan# 1516

Delta R.T. 0.006 min

Lab File: VL042847.D

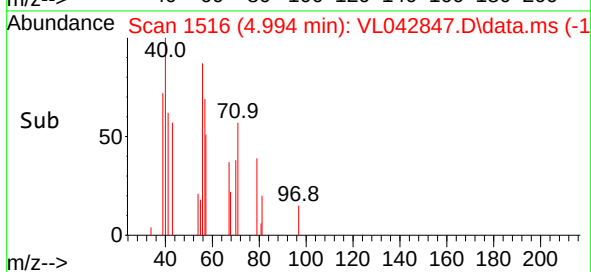
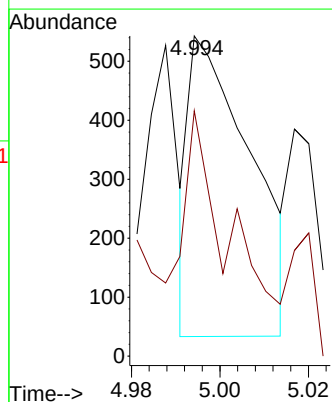
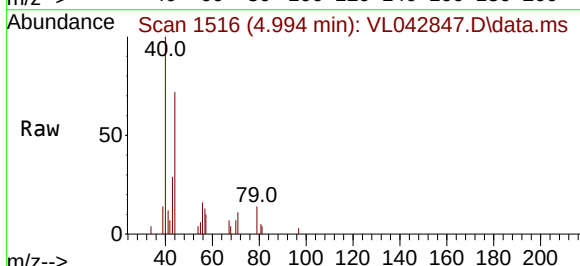
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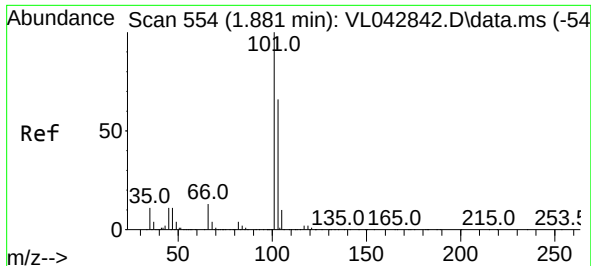
Tgt Ion: 43 Resp: 492

Ion Ratio Lower Upper

43 100

57 137.2 41.4 62.0#

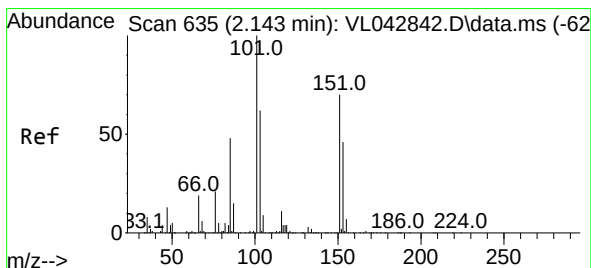
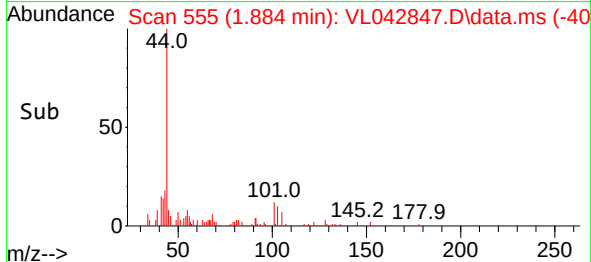
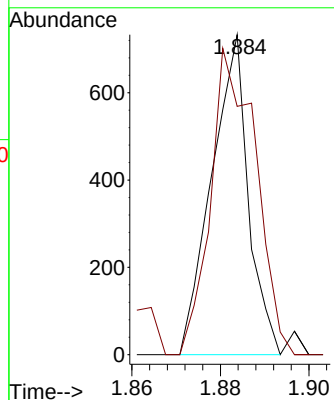
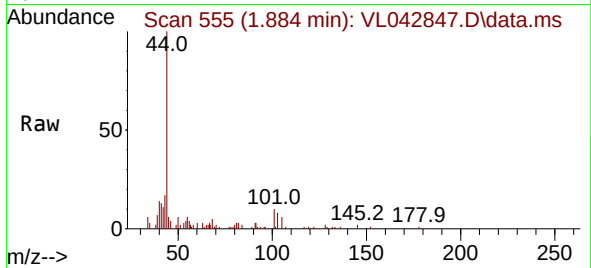




#11
 Trichlorofluoromethane
 Concen: 0.024 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

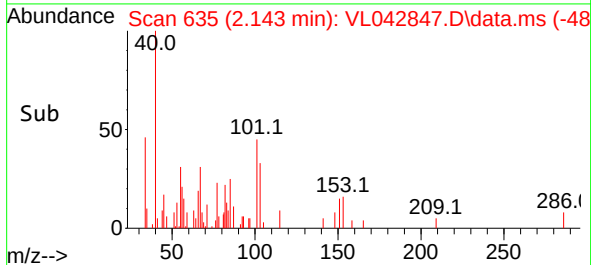
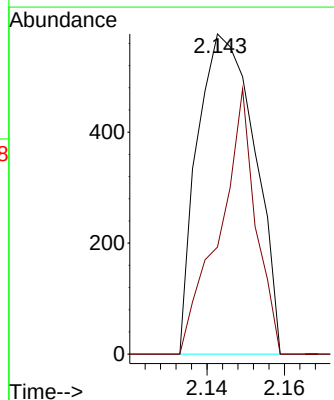
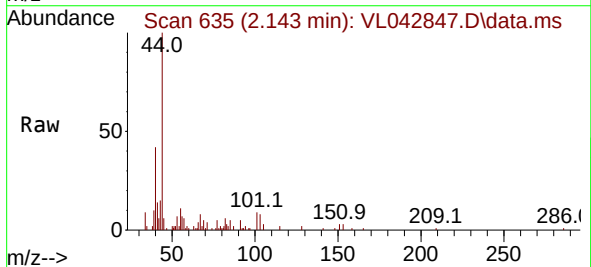
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 ClientSampleId :
 VSTDIC0.03

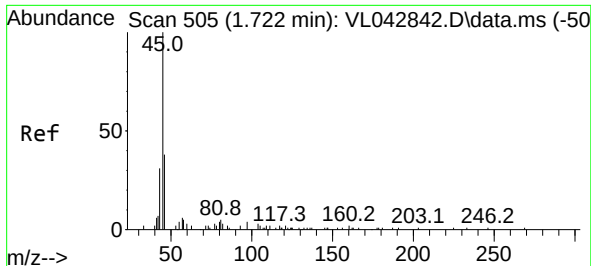
Tgt Ion:101 Resp: 420
 Ion Ratio Lower Upper
 101 100
 103 69.7 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.042 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Tgt Ion:101 Resp: 592
 Ion Ratio Lower Upper
 101 100
 151 52.5 56.4 84.6#

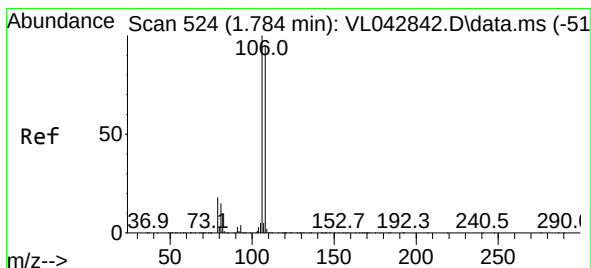
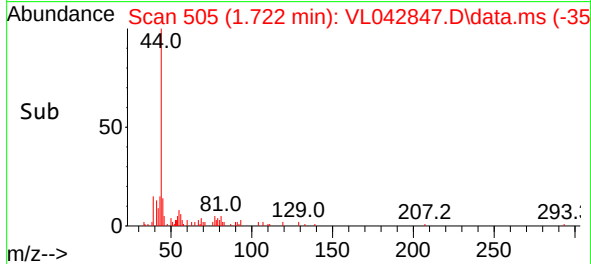
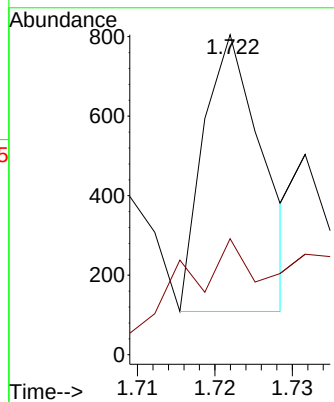
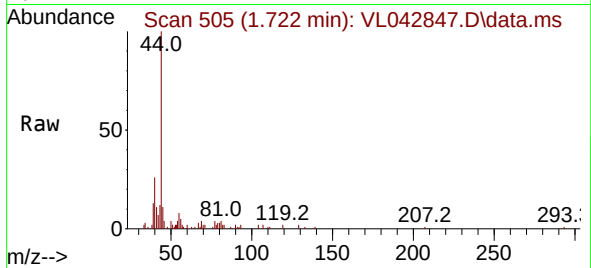




#13
 Ethanol
 Concen: 0.435 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. -0.000 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

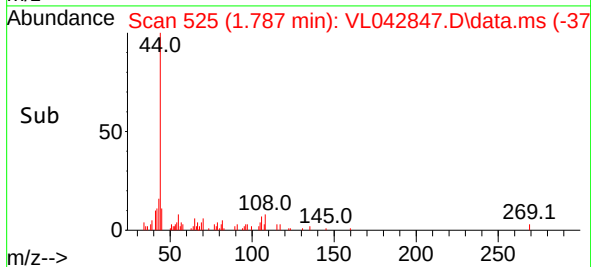
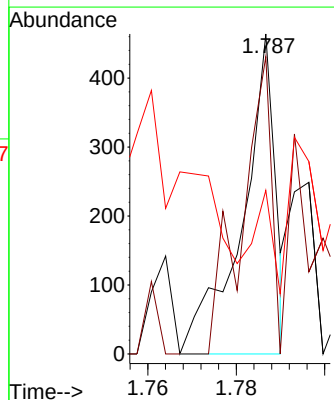
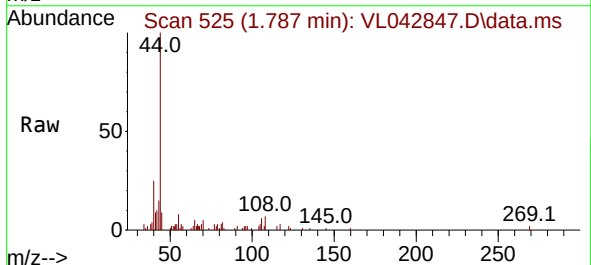
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

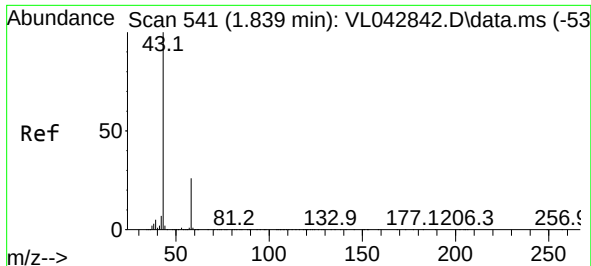
Tgt Ion: 45 Resp: 370
 Ion Ratio Lower Upper
 45 100
 46 0.0 17.5 69.9#



#14
 Bromoethene
 Concen: 0.047 ppbv
 RT: 1.787 min Scan# 525
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Tgt Ion: 108 Resp: 243
 Ion Ratio Lower Upper
 108 100
 106 139.9 85.1 127.7#
 79 0.0 16.3 24.5#

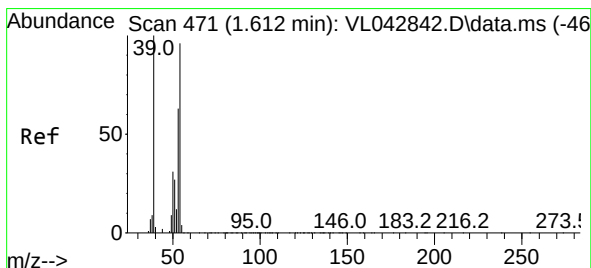
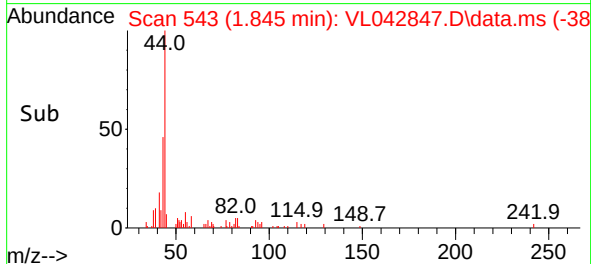
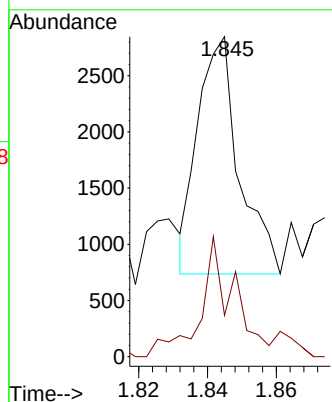
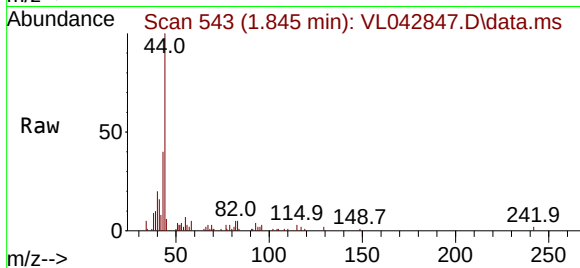




#15
Acetone
Concen: 0.108 ppbv
RT: 1.845 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

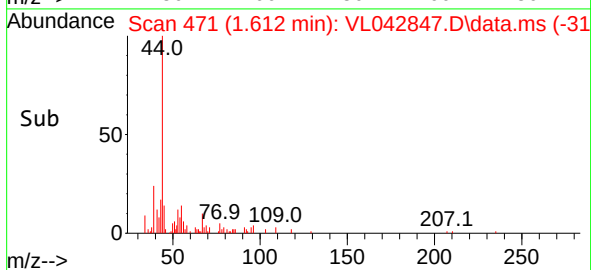
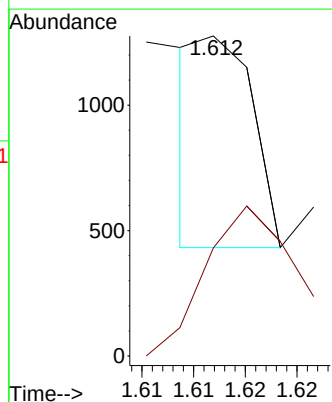
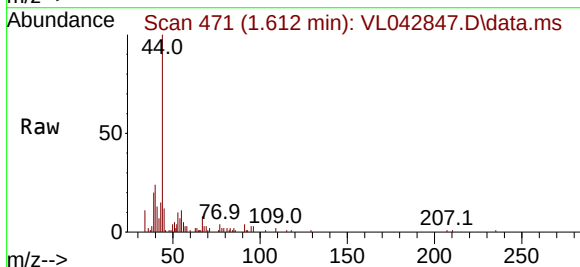
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

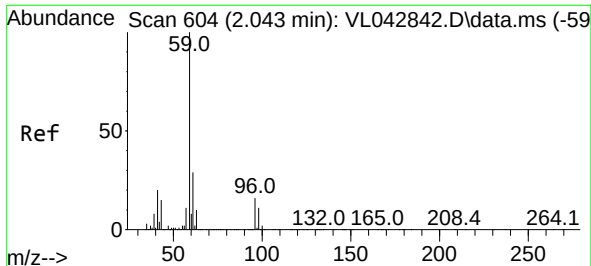
Tgt Ion: 43 Resp: 1759
Ion Ratio Lower Upper
43 100
58 57.4 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.041 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 39 Resp: 303
Ion Ratio Lower Upper
39 100
54 197.7 63.6 95.4#





#17

tert-Butyl alcohol

Concen: 0.009 ppbv

RT: 2.039 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_1

ClientSampleId :

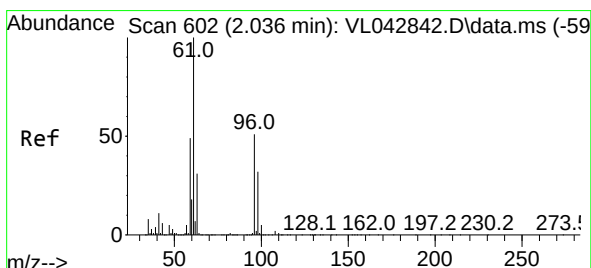
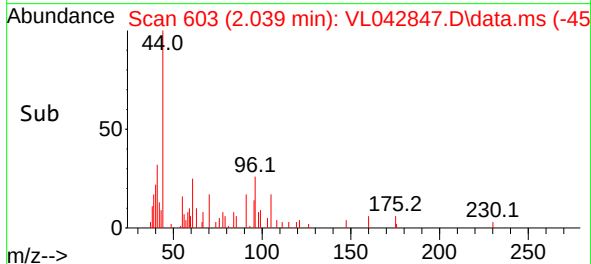
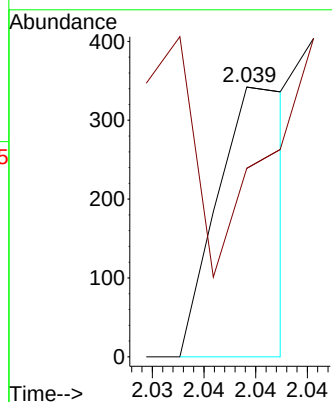
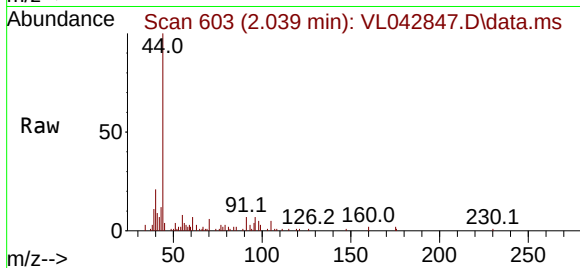
VSTDIC0.03

Tgt Ion: 59 Resp: 167

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



#18

1,1-Dichloroethene

Concen: 0.075 ppbv

RT: 2.042 min Scan# 604

Delta R.T. 0.006 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

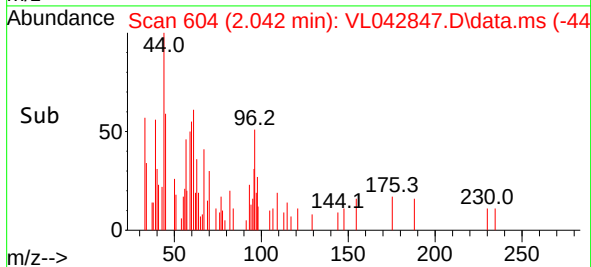
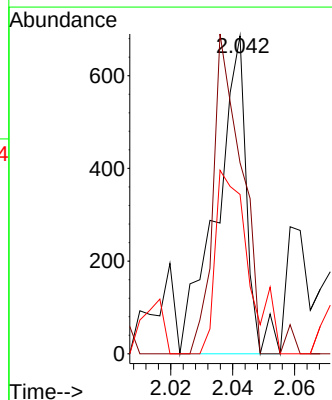
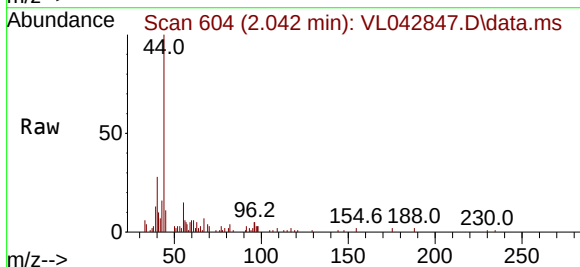
Tgt Ion: 96 Resp: 464

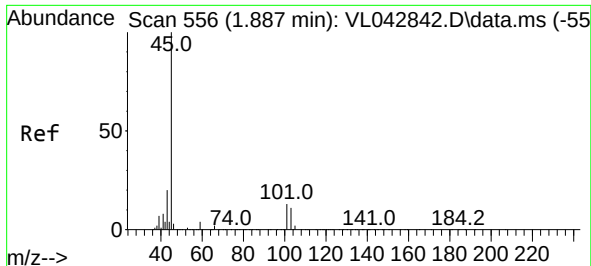
Ion Ratio Lower Upper

96 100

61 60.1 158.2 237.4#

98 50.1 50.6 76.0#

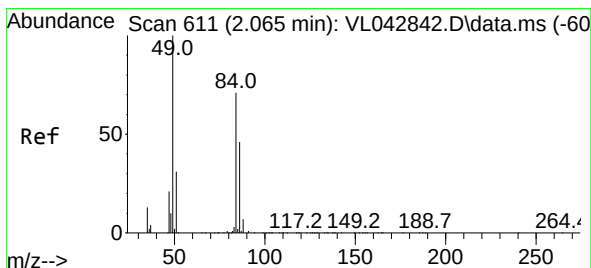
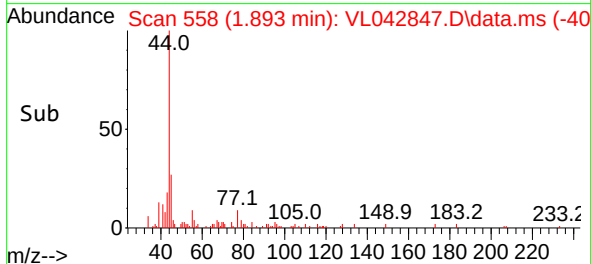
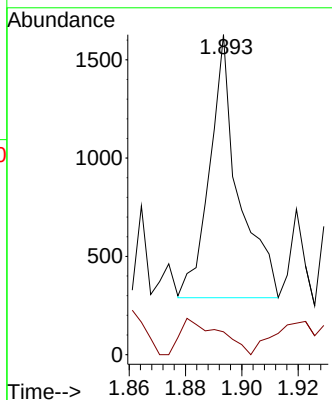
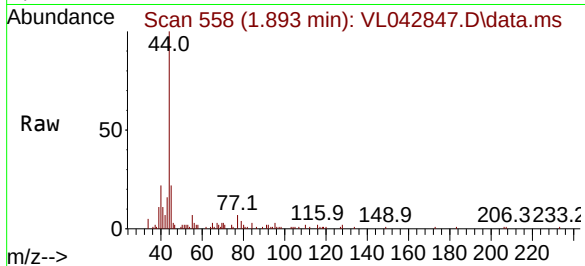




#19
Isopropyl Alcohol
Concen: 0.097 ppbv
RT: 1.893 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

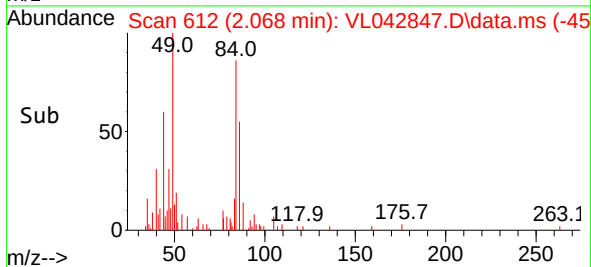
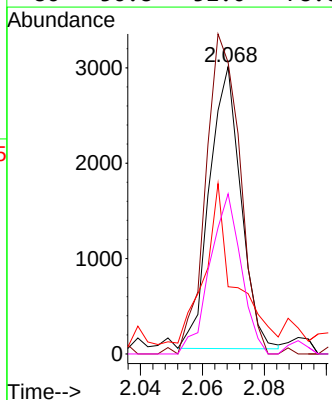
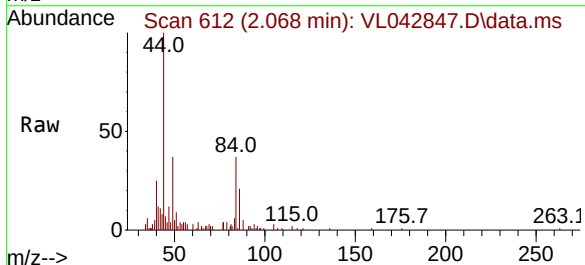
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

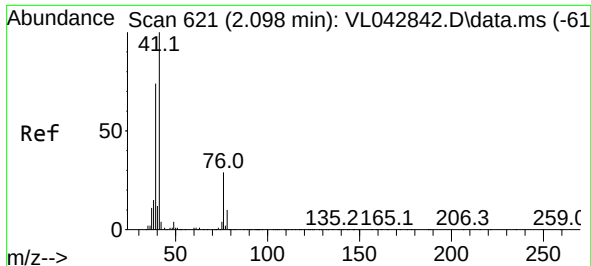
Tgt Ion: 45 Resp: 945
Ion Ratio Lower Upper
45 100
58 18.9 32.7 49.1#



#20
Methylene Chloride
Concen: 0.305 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 84 Resp: 2076
Ion Ratio Lower Upper
84 100
49 103.5 112.3 168.5#
51 20.0 36.0 54.0#
86 56.8 52.0 78.0

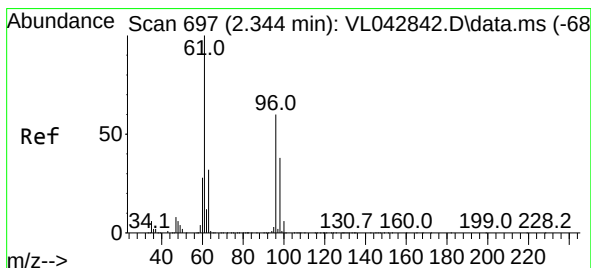
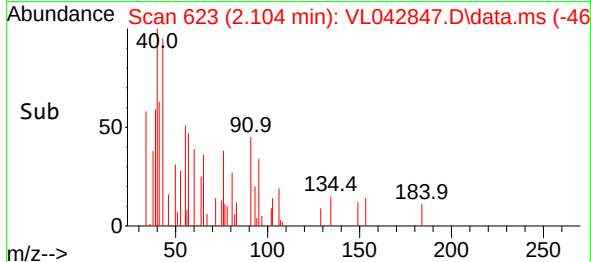
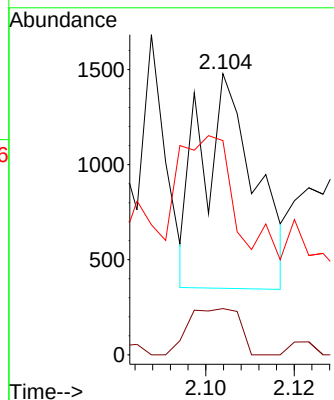
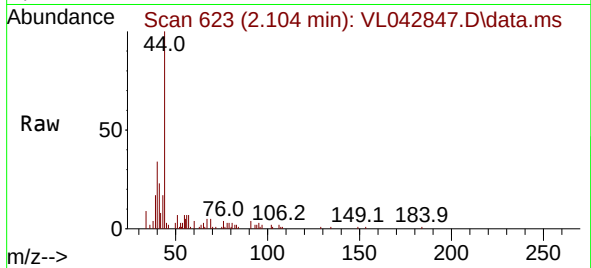




#21
 Allyl Chloride
 Concen: 0.083 ppbv
 RT: 2.104 min Scan# 61
 Delta R.T. 0.006 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

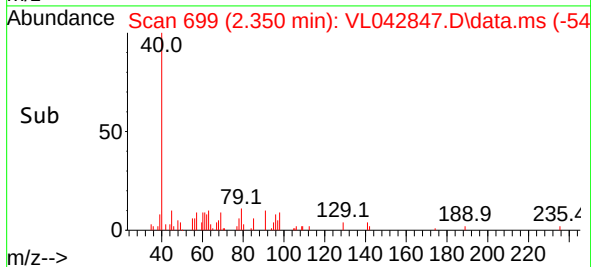
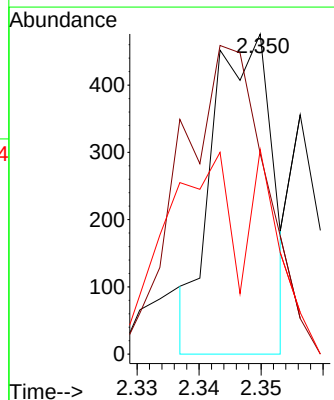
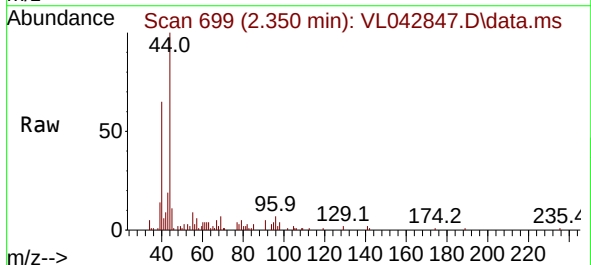
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

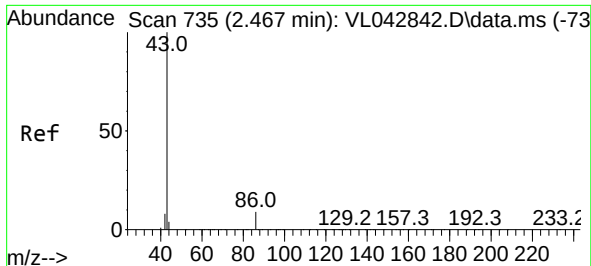
Tgt Ion: 41 Resp: 953
 Ion Ratio Lower Upper
 41 100
 76 26.5 23.9 35.9
 39 129.5 57.8 86.6#



#22
 trans-1,2-Dichloroethene
 Concen: 0.046 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.006 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Tgt Ion: 96 Resp: 317
 Ion Ratio Lower Upper
 96 100
 61 32.5 132.6 199.0#
 98 40.8 50.0 75.0#

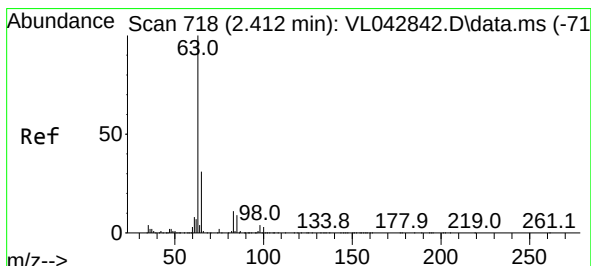
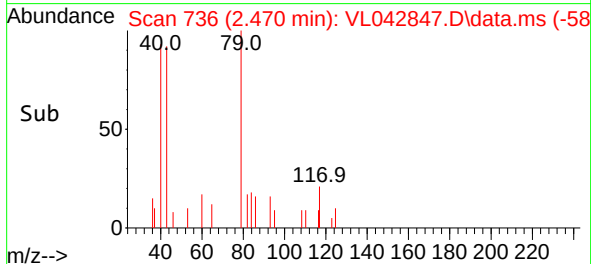
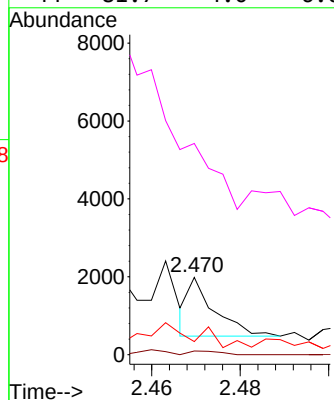
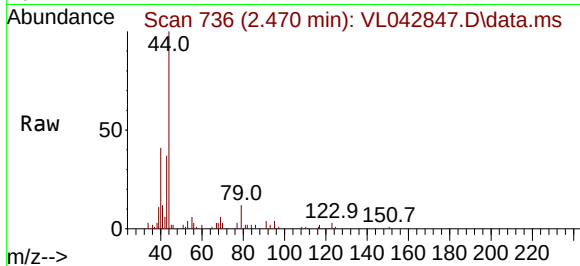




#23
 Vinyl Acetate
 Concen: 0.029 ppbv
 RT: 2.470 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

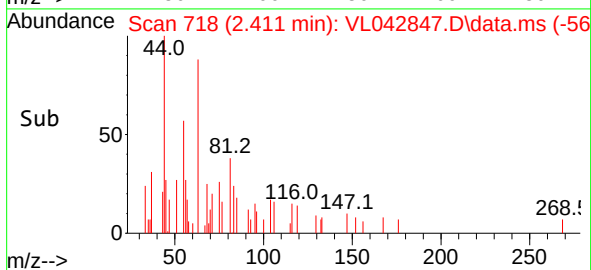
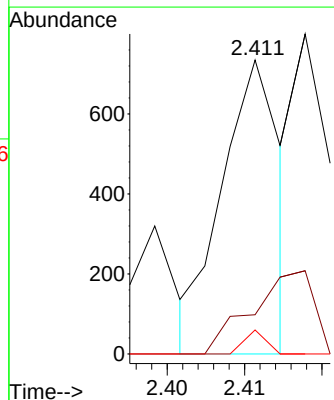
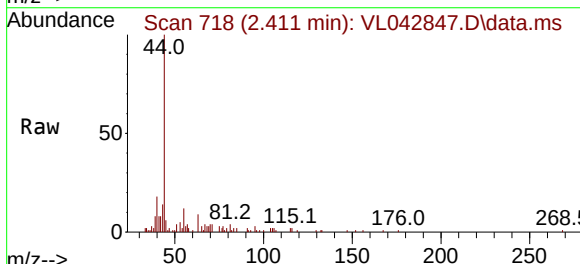
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

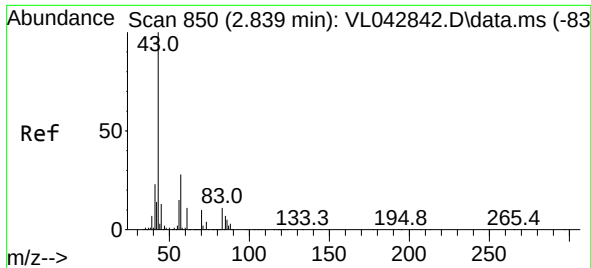
Tgt Ion: 43	Resp: 629
Ion Ratio	Lower Upper
43 100	
86 6.3	6.6 9.8#
42 0.0	7.0 10.6#
44 81.7	4.0 6.0#



#24
 1,1-Dichloroethane
 Concen: 0.027 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Tgt Ion: 63	Resp:	388
Ion Ratio	Lower	Upper
63 100		
98 16.4	2.1	6.5#
100 10.0	1.7	5.1#

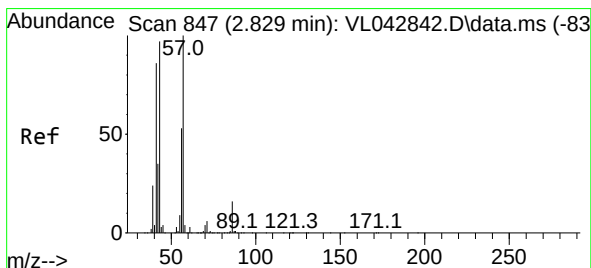
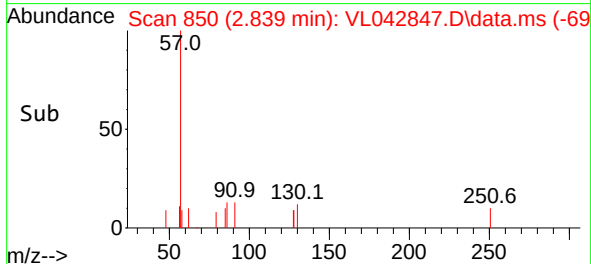
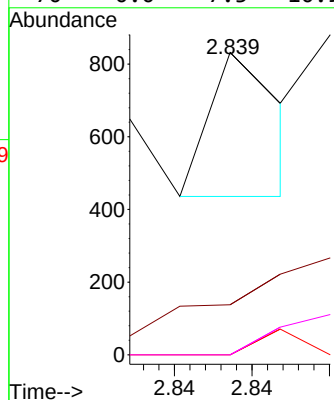
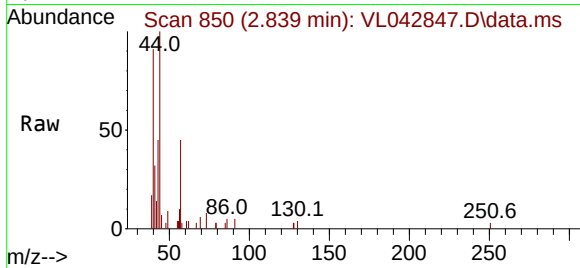




#25
Ethyl Acetate
Concen: 0.003 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

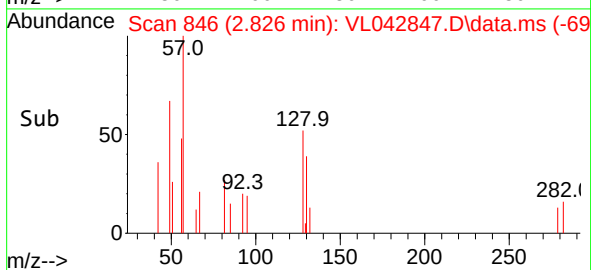
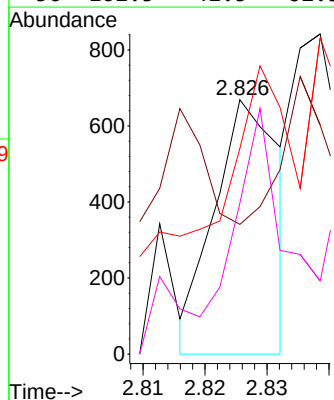
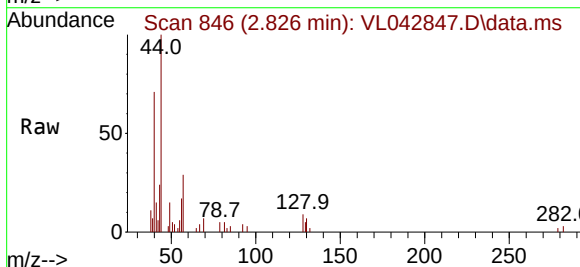
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

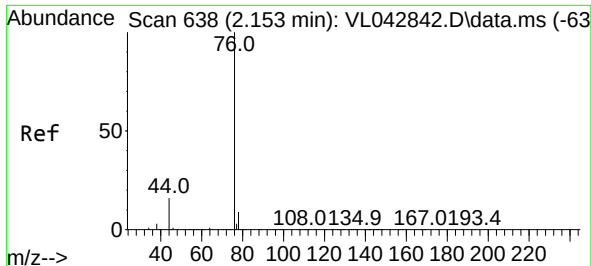
Tgt Ion:	43	Resp:	126
Ion	Ratio	Lower	Upper
43	100		
45	268.3	8.1	12.1#
61	0.0	7.4	11.2#
70	0.0	7.3	10.9#



#26
Hexane
Concen: 0.027 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:	57	Resp:	483
Ion	Ratio	Lower	Upper
57	100		
41	0.0	68.6	103.0#
43	0.0	168.5	252.7#
56	162.5	41.5	62.3#





#27

Carbon Disulfide

Concen: 0.029 ppbv

RT: 2.159 min Scan# 64

Delta R.T. 0.006 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

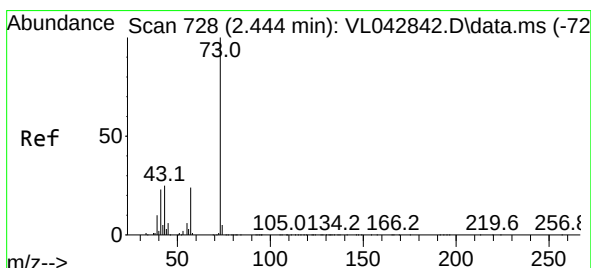
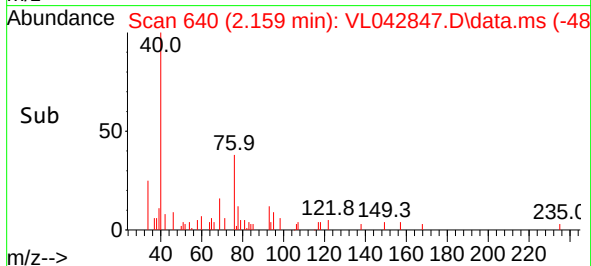
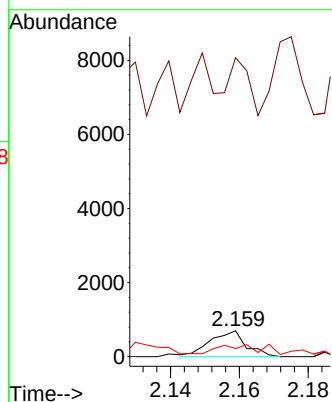
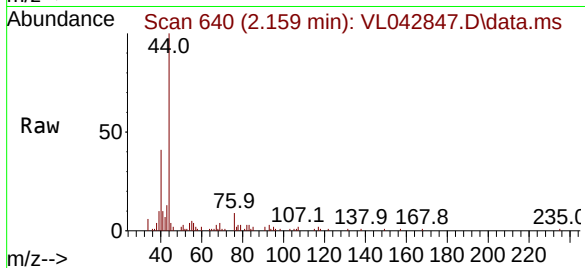
Tgt Ion: 76 Resp: 509

Ion Ratio Lower Upper

76 100

44 2370.7 15.9 23.9#

78 81.3 9.5 14.3#



#28

Methyl tert-Butyl Ether

Concen: 0.056 ppbv

RT: 2.450 min Scan# 730

Delta R.T. 0.006 min

Lab File: VL042847.D

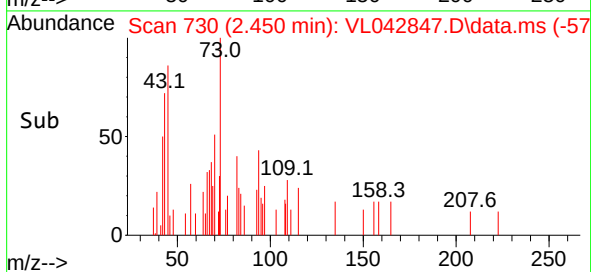
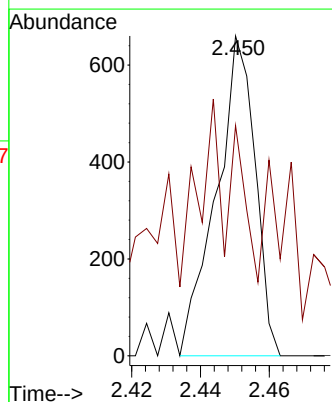
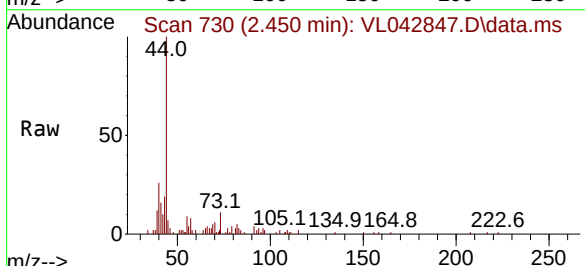
Acq: 13 Aug 2025 11:30

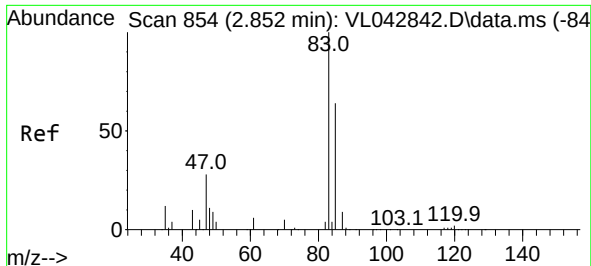
Tgt Ion: 73 Resp: 517

Ion Ratio Lower Upper

73 100

57 159.0 21.6 32.4#





#29

Chloroform

Concen: 0.035 ppbv

RT: 2.855 min Scan# 8

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

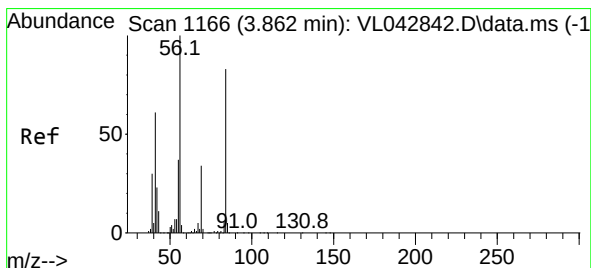
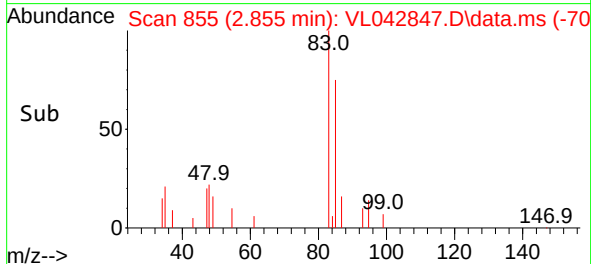
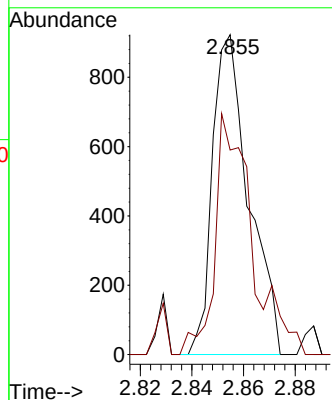
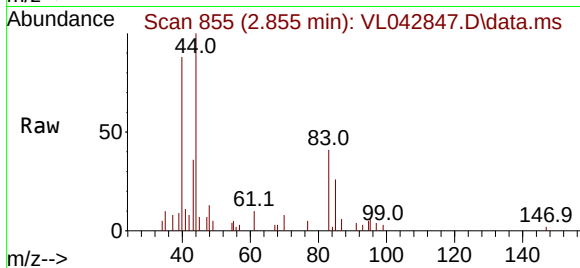
VSTDIC0.03

Tgt Ion: 83 Resp: 902

Ion Ratio Lower Upper

83 100

85 63.9 51.1 76.7



#30

Cyclohexane

Concen: 0.022 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

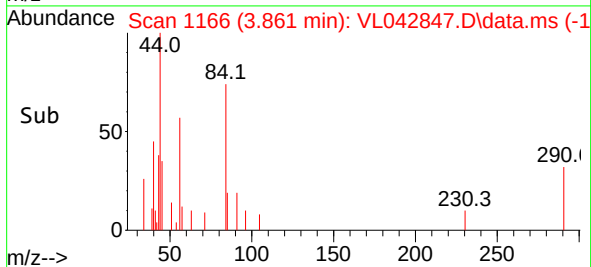
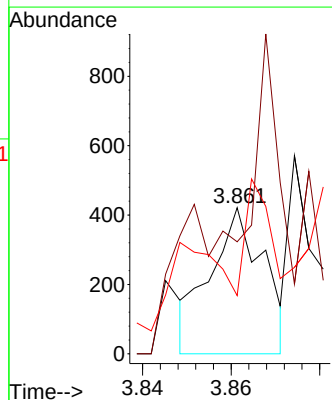
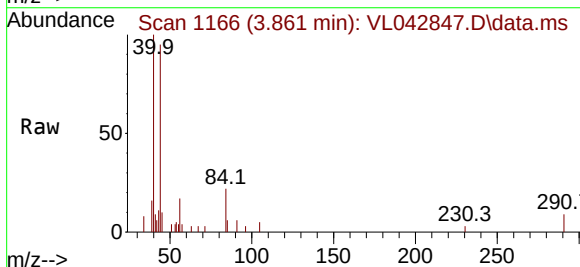
Tgt Ion: 84 Resp: 352

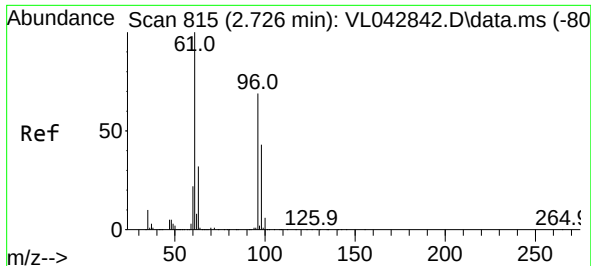
Ion Ratio Lower Upper

84 100

56 309.9 98.8 148.2#

41 239.8 61.3 91.9#

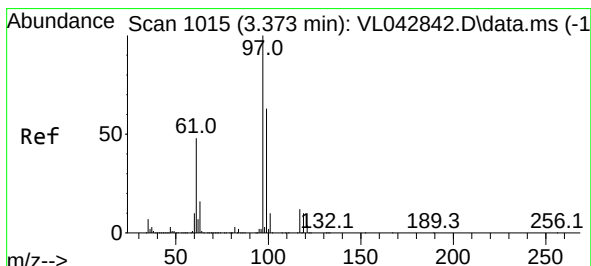
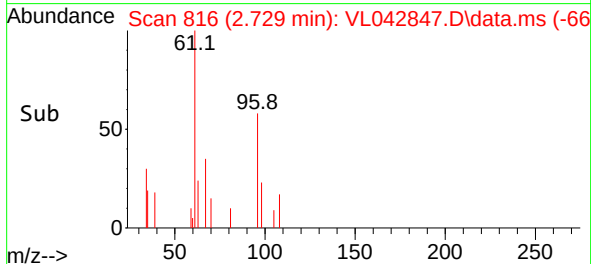
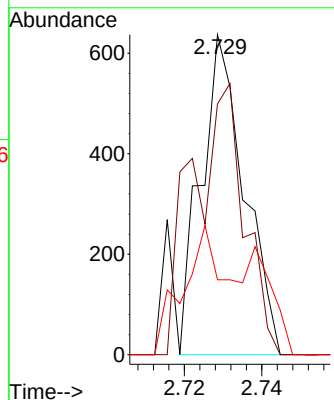
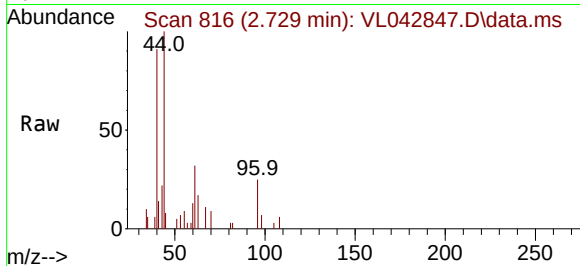




#31
 cis-1,2-Dichloroethene
 Concen: 0.027 ppbv
 RT: 2.729 min Scan# 815
 Delta R.T. 0.003 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

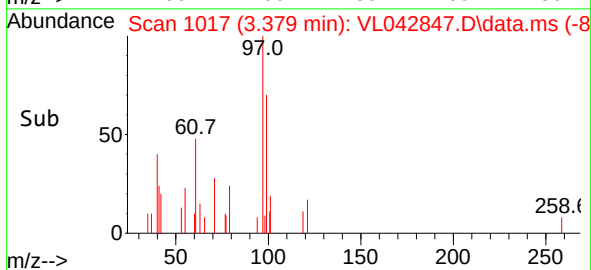
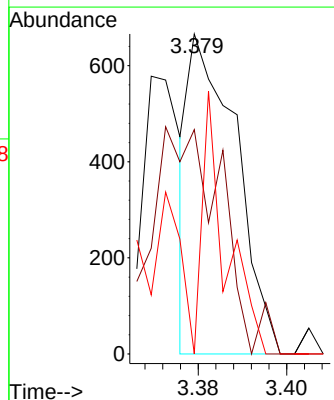
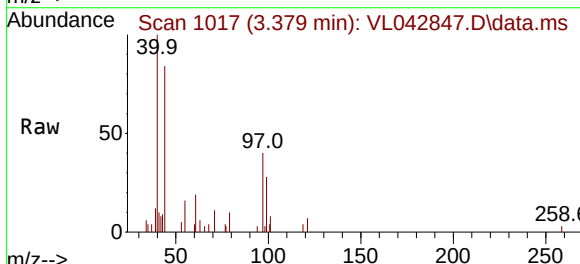
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

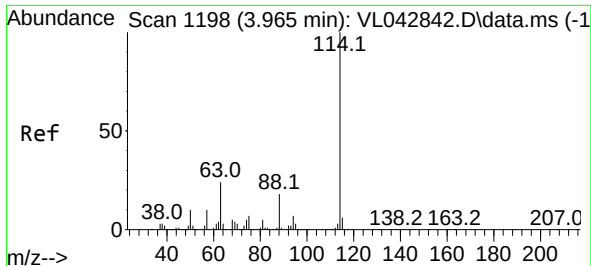
Tgt Ion:	61	Resp:	497
Ion	Ratio	Lower	Upper
61	100		
96	78.3	55.0	82.6
98	9.4	34.3	51.5



#32
 1,1,1-Trichloroethane
 Concen: 0.018 ppbv
 RT: 3.379 min Scan# 1017
 Delta R.T. 0.006 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Tgt Ion:	97	Resp:	493
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.0	76.6
61	82.6	38.0	57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1198

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

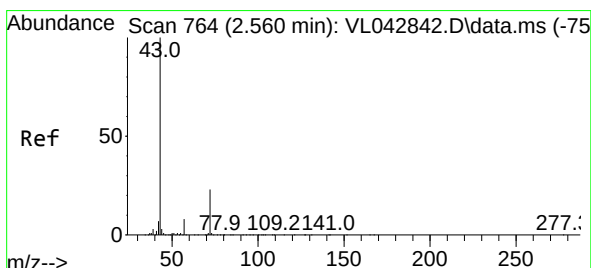
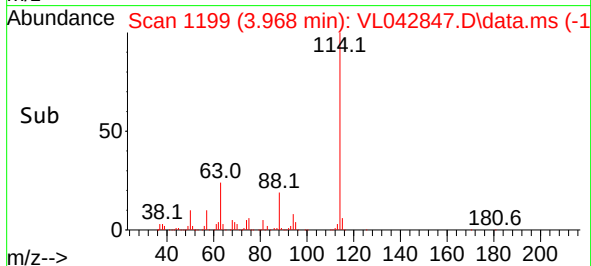
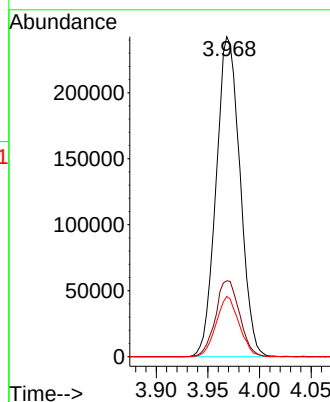
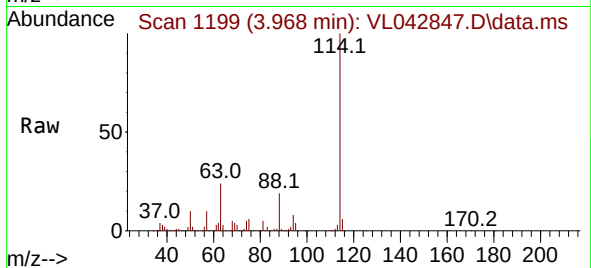
Tgt Ion:114 Resp: 390076

Ion Ratio Lower Upper

114 100

63 24.1 19.7 29.5

88 18.1 14.4 21.6



#34

2-Butanone

Concen: 0.016 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.006 min

Lab File: VL042847.D

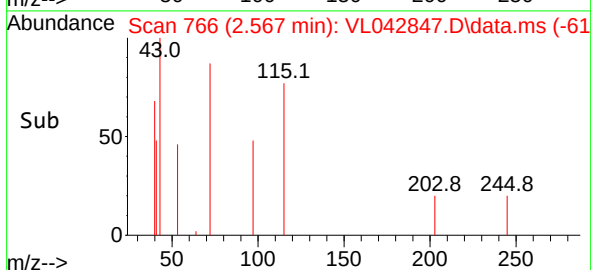
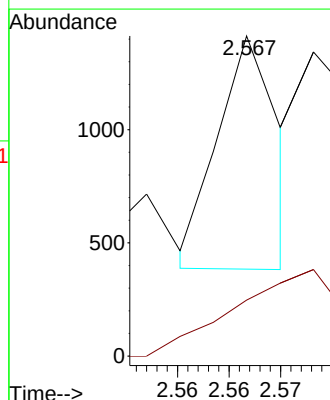
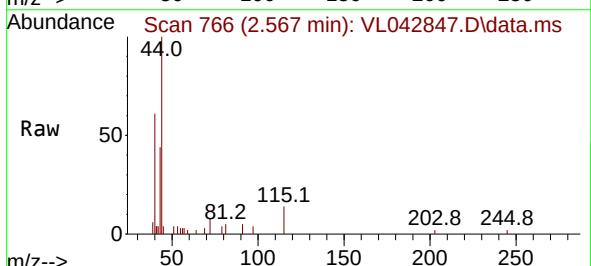
Acq: 13 Aug 2025 11:30

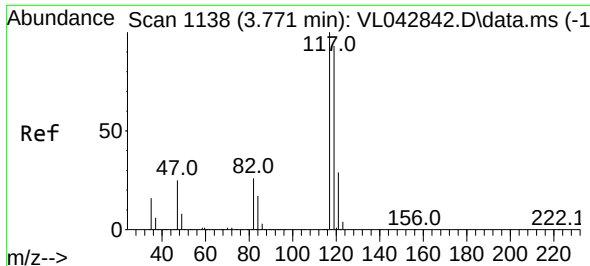
Tgt Ion: 43 Resp: 422

Ion Ratio Lower Upper

43 100

72 0.0 18.6 28.0#

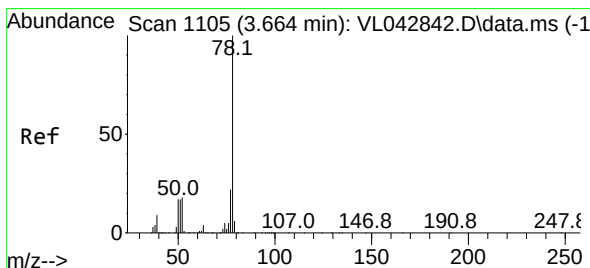
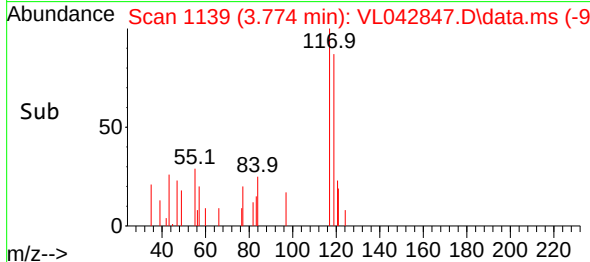
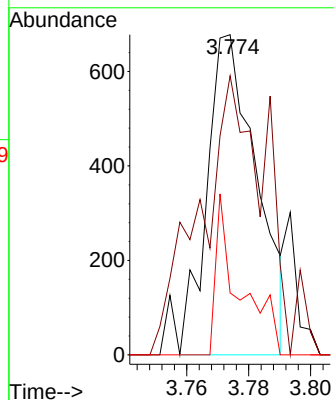
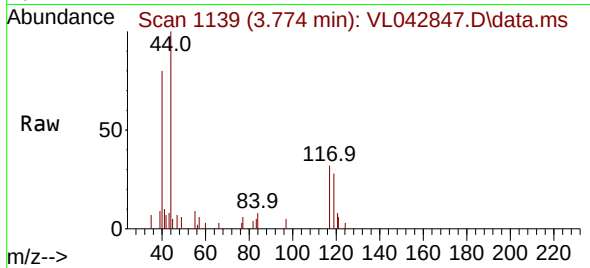




#35
Carbon Tetrachloride
Concen: 0.028 ppbv
RT: 3.774 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

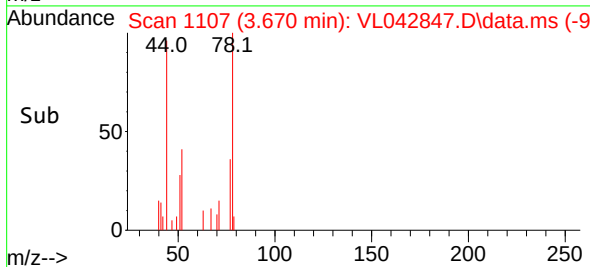
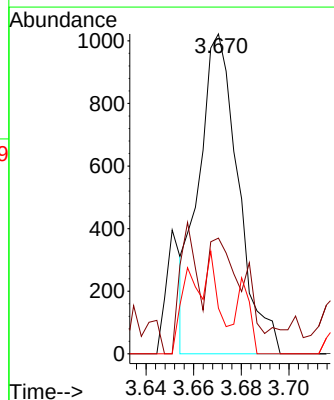
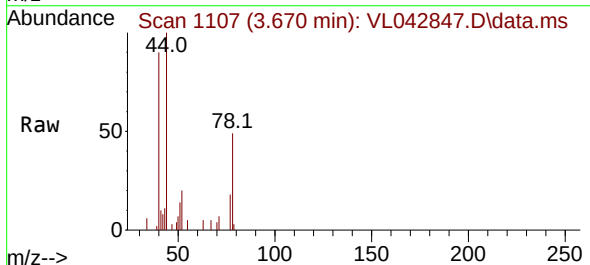
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

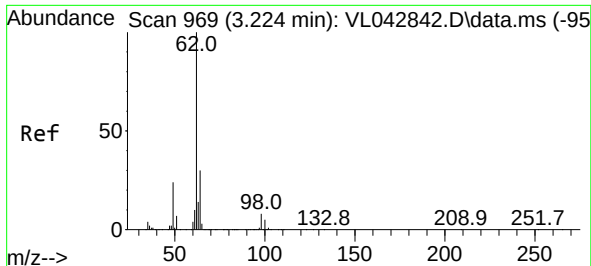
Tgt Ion:117 Resp: 756
Ion Ratio Lower Upper
117 100
119 59.0 74.7 112.1#
121 19.3 23.2 34.8#



#36
Benzene
Concen: 0.032 ppbv
RT: 3.670 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 78 Resp: 1185
Ion Ratio Lower Upper
78 100
77 26.8 17.7 26.5#
50 13.4 13.9 20.9#

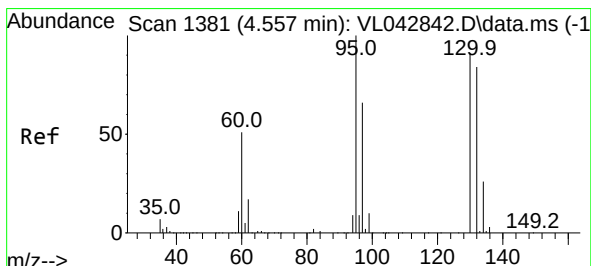
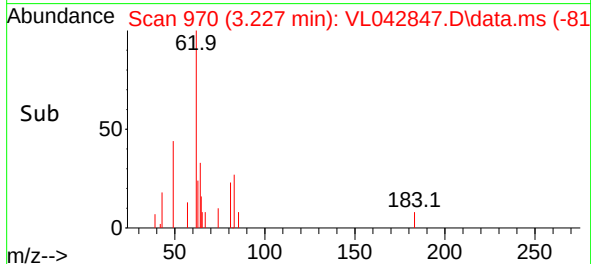
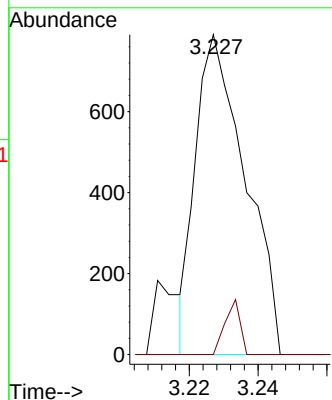
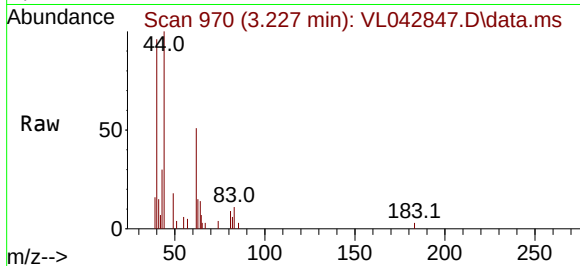




#37
1,2-Dichloroethane
Concen: 0.041 ppbv
RT: 3.227 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

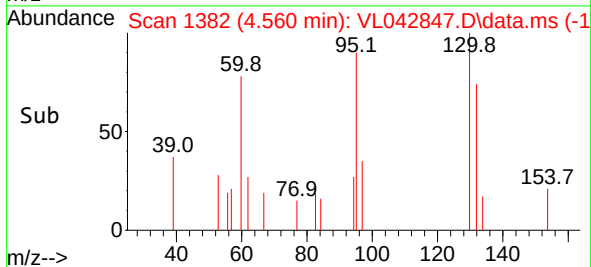
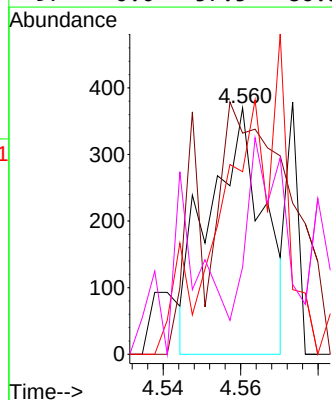
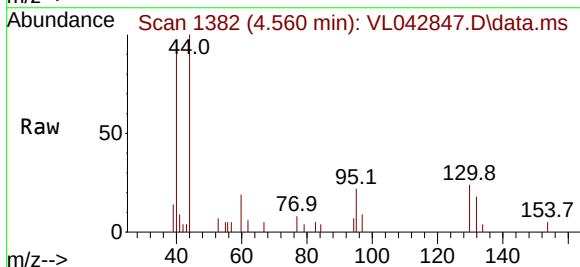
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

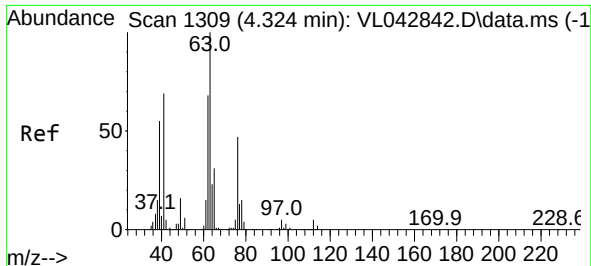
Tgt Ion: 62 Resp: 792
Ion Ratio Lower Upper
62 100
98 5.2 5.9 8.9#



#38
Trichloroethene
Concen: 0.021 ppbv
RT: 4.560 min Scan# 1382
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:130 Resp: 363
Ion Ratio Lower Upper
130 100
95 77.9 87.6 131.4#
132 35.9 73.8 110.8#
97 0.0 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 6.881 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.356 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

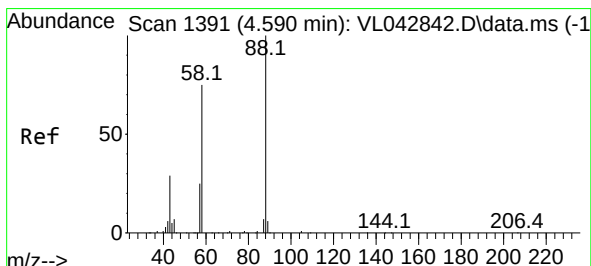
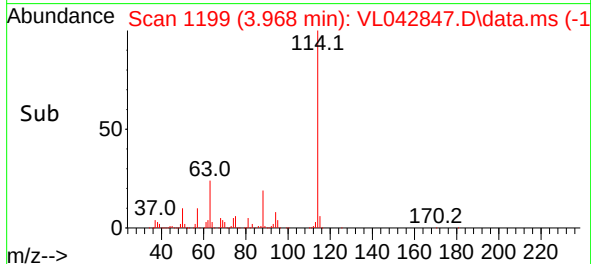
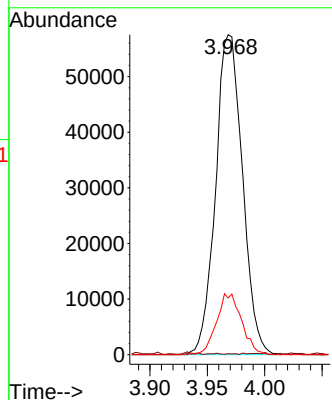
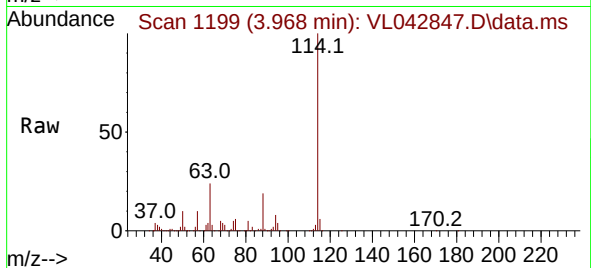
Tgt Ion: 63 Resp: 93873

Ion Ratio Lower Upper

63 100

41 0.2 55.0 82.4#

62 17.7 54.4 81.6#



#40

1,4-Dioxane

Concen: 0.016 ppbv

RT: 4.641 min Scan# 1407

Delta R.T. 0.052 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Tgt Ion: 88 Resp: 105

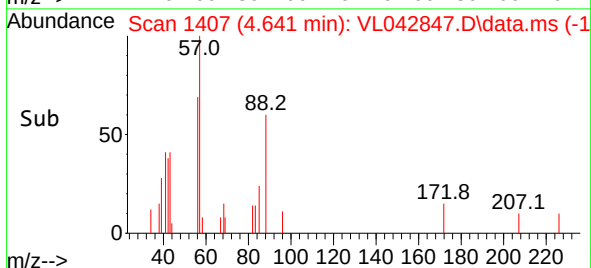
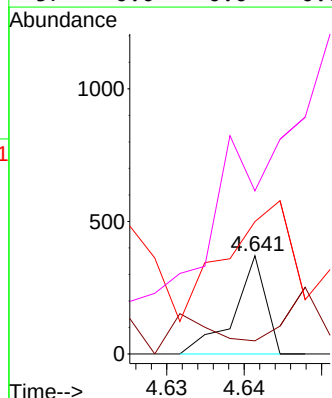
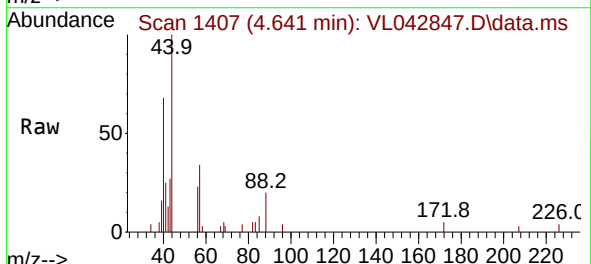
Ion Ratio Lower Upper

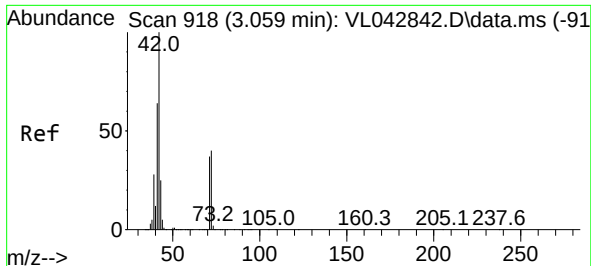
88 100

58 239.0 53.8 80.6#

43 781.0 22.8 34.2#

57 0.0 0.0 0.0

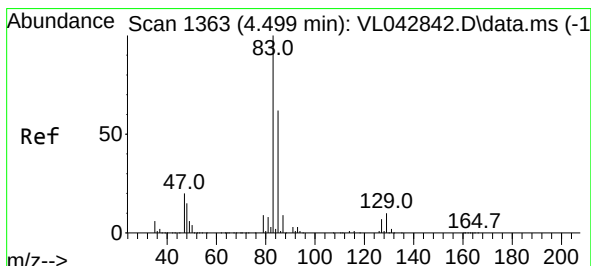
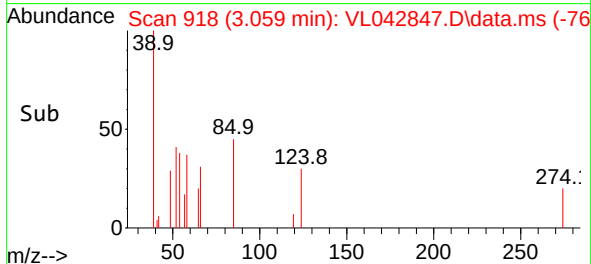
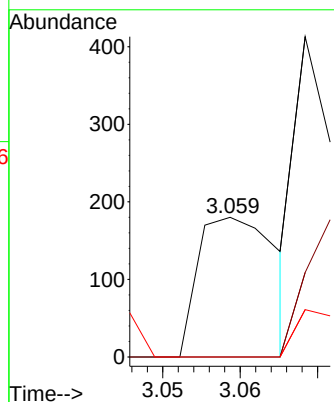
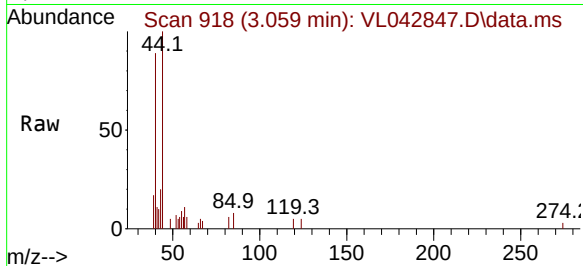




#41
Tetrahydrofuran
Concen: 0.009 ppbv
RT: 3.059 min Scan# 918
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

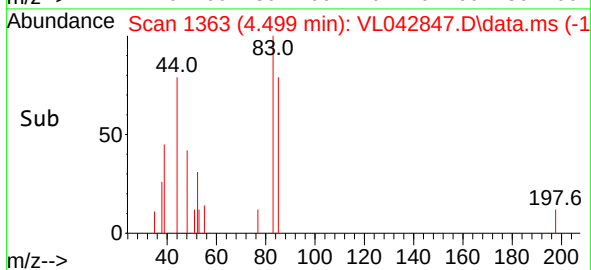
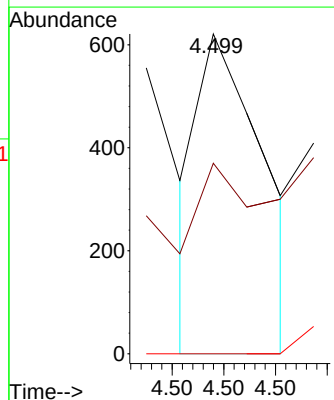
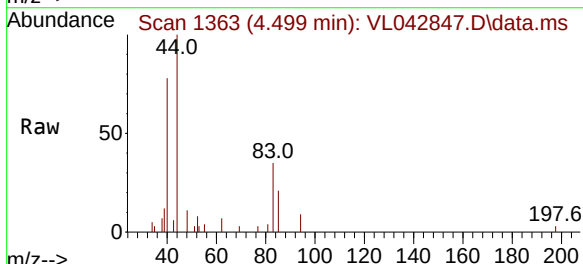
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

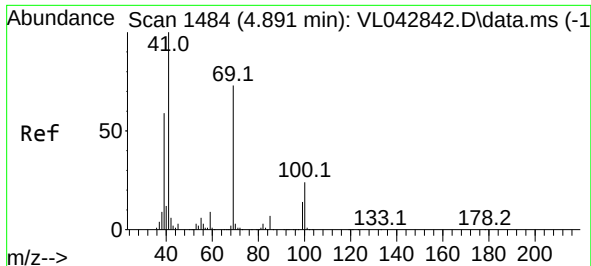
Tgt Ion: 42 Resp: 127
Ion Ratio Lower Upper
42 100
72 0.0 32.6 48.8#
71 0.0 30.0 45.0#



#42
Bromodichloromethane
Concen: 0.009 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 83 Resp: 271
Ion Ratio Lower Upper
83 100
85 56.1 49.8 74.8
127 0.0 5.8 8.6#

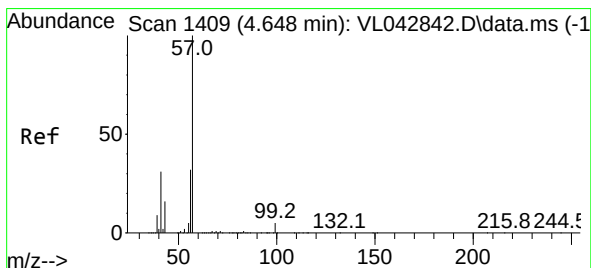
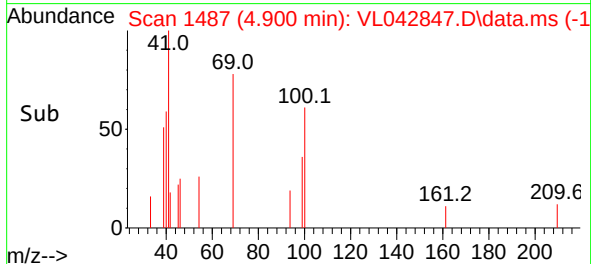
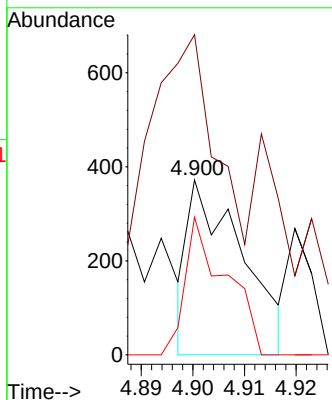
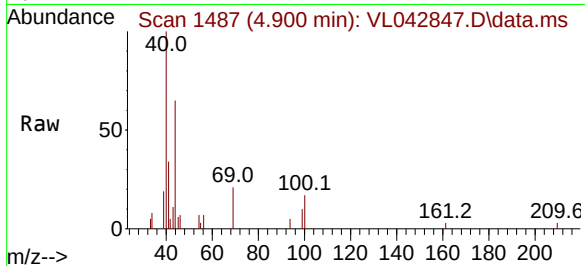




#43
Methyl Methacrylate
Concen: 0.018 ppbv
RT: 4.900 min Scan# 1410
Delta R.T. 0.009 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

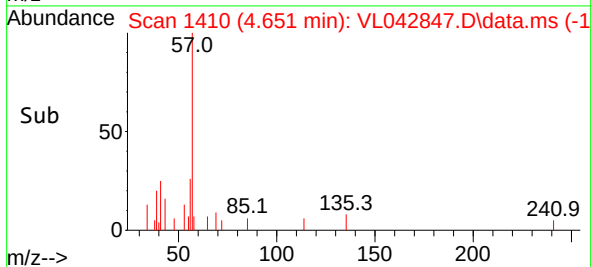
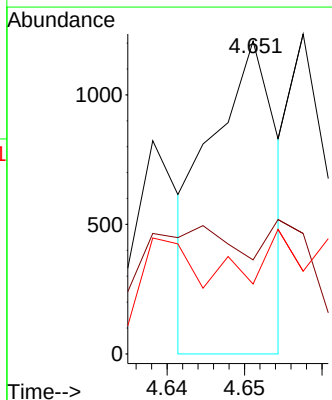
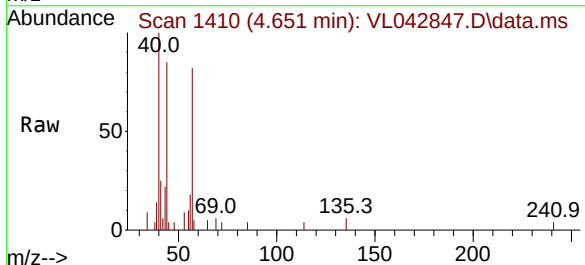
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

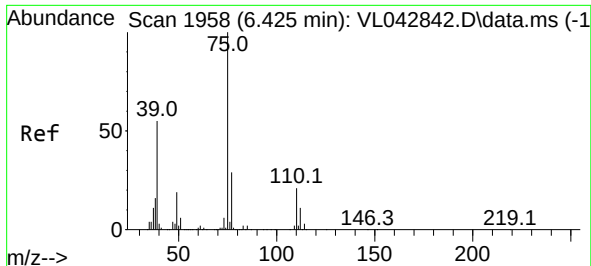
Tgt Ion: 69 Resp: 270
Ion Ratio Lower Upper
69 100
41 466.3 114.6 172.0#
100 59.6 30.2 45.4#



#44
2,2,4-Trimethylpentane
Concen: 0.012 ppbv
RT: 4.651 min Scan# 1410
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 57 Resp: 726
Ion Ratio Lower Upper
57 100
41 0.0 24.8 37.2#
56 0.0 25.5 38.3#





#45

t-1,3-Dichloropropene

Concen: 0.009 ppbv

RT: 6.428 min Scan# 1958

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

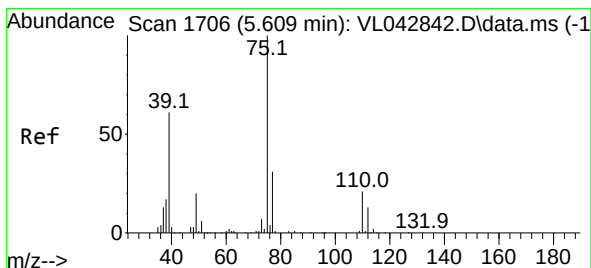
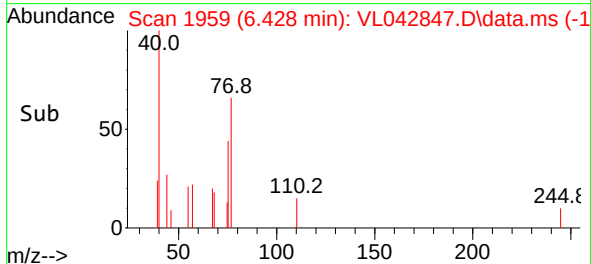
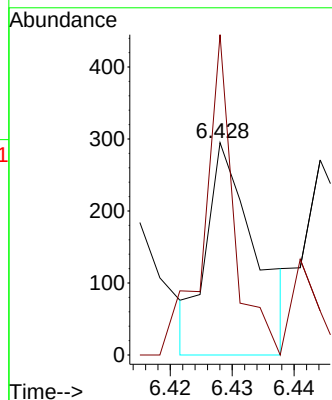
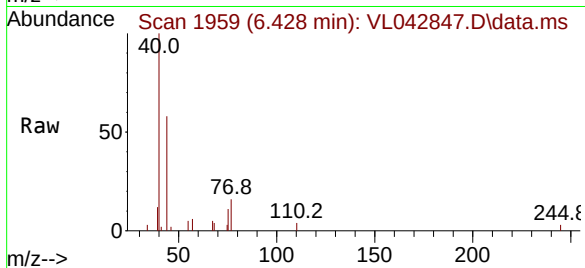
VSTDIC0.03

Tgt Ion: 75 Resp: 162

Ion Ratio Lower Upper

75 100

77 150.8 23.8 35.6#



#46

cis-1,3-Dichloropropene

Concen: 0.016 ppbv

RT: 5.612 min Scan# 1707

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

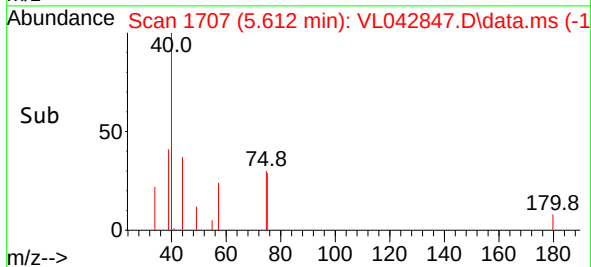
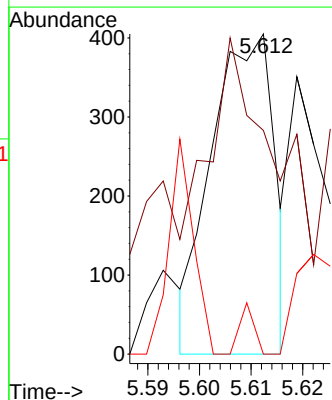
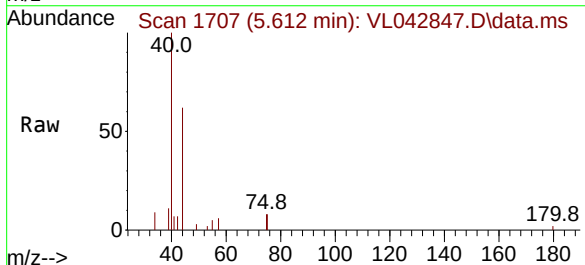
Tgt Ion: 75 Resp: 343

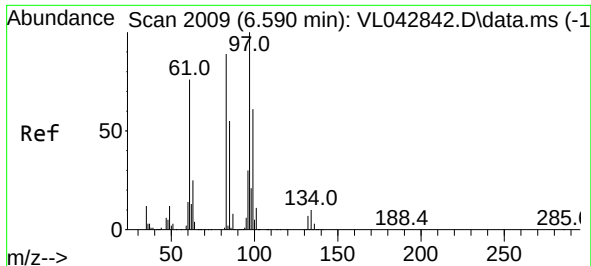
Ion Ratio Lower Upper

75 100

39 42.7 48.9 73.3#

77 0.0 24.9 37.3#





#47

1,1,2-Trichloroethane

Concen: 0.002 ppbv

RT: 6.593 min Scan# 2009

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion: 97 Resp: 30

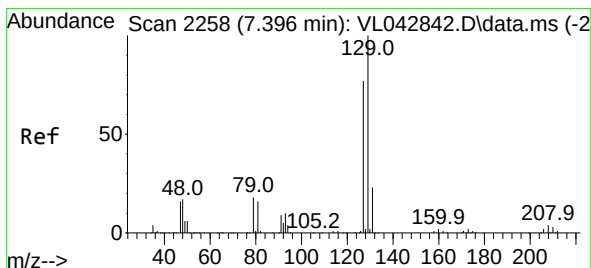
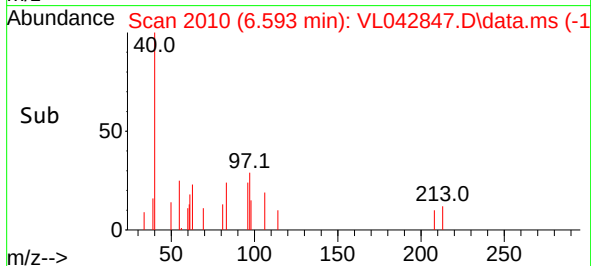
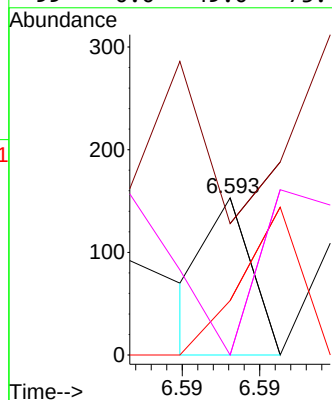
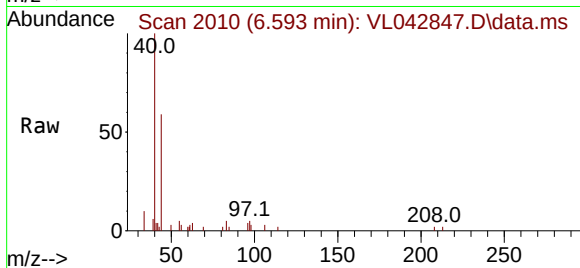
Ion Ratio Lower Upper

97 100

83 0.0 71.0 106.4#

85 34.6 43.6 65.4#

99 0.0 49.0 73.4#



#48

Dibromochloromethane

Concen: 0.025 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.003 min

Lab File: VL042847.D

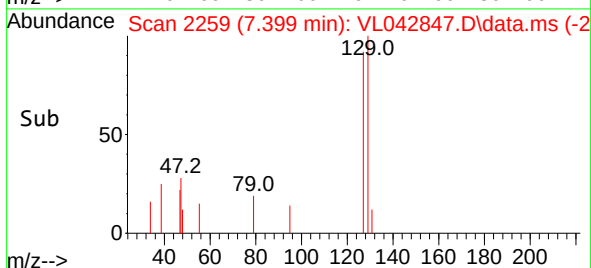
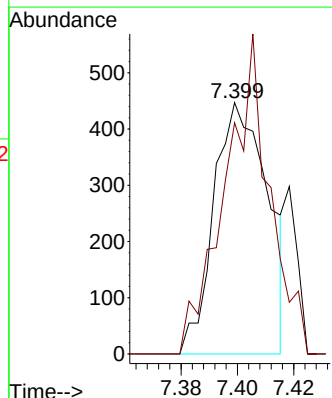
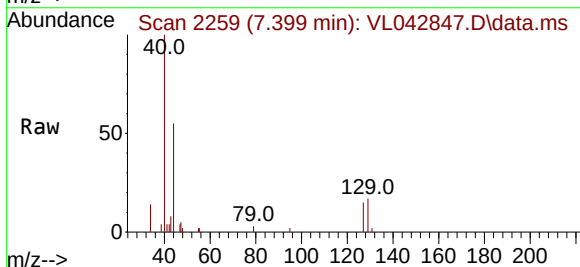
Acq: 13 Aug 2025 11:30

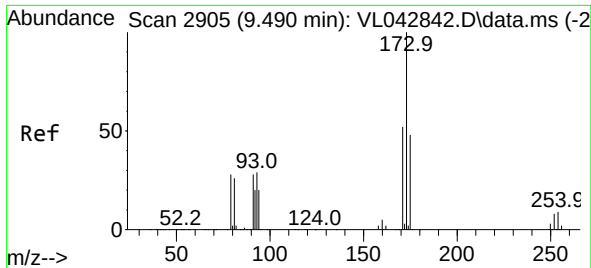
Tgt Ion: 129 Resp: 593

Ion Ratio Lower Upper

129 100

127 104.0 39.4 118.2

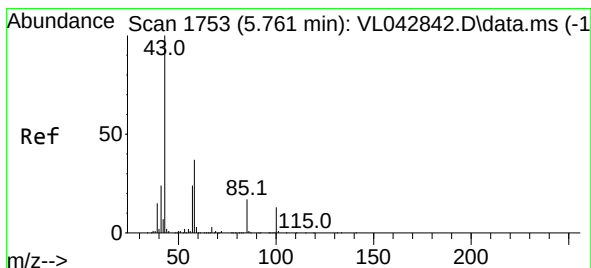
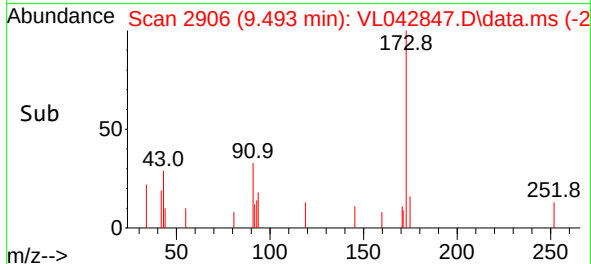
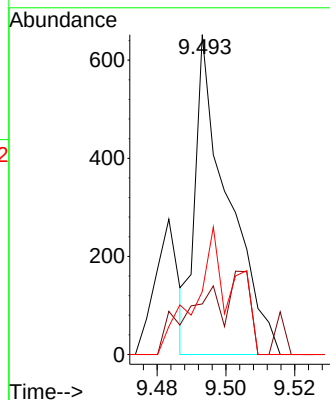
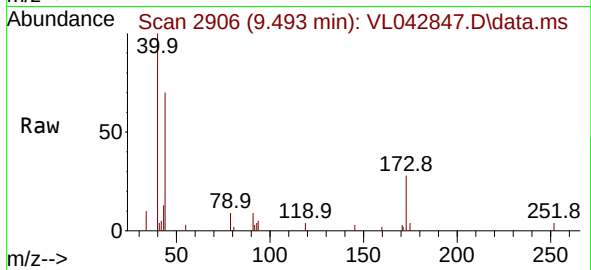




#49
Bromoform
Concen: 0.022 ppbv
RT: 9.493 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

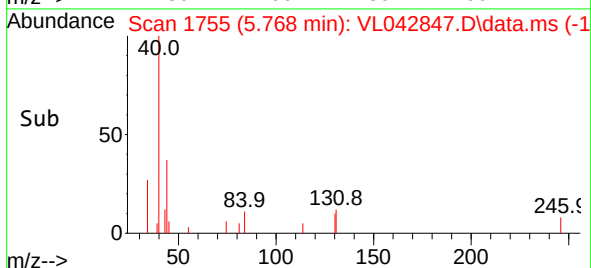
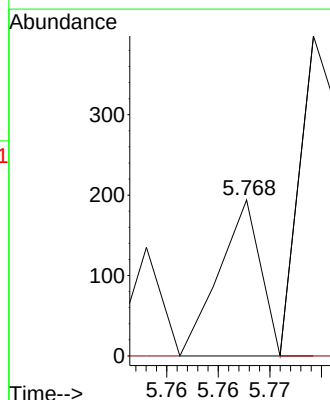
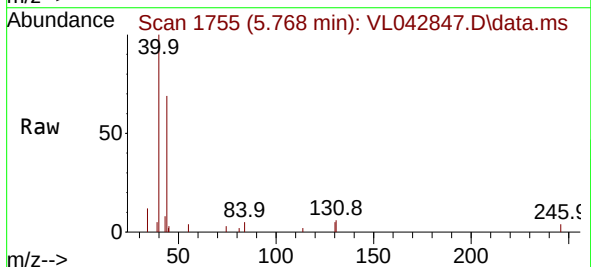
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

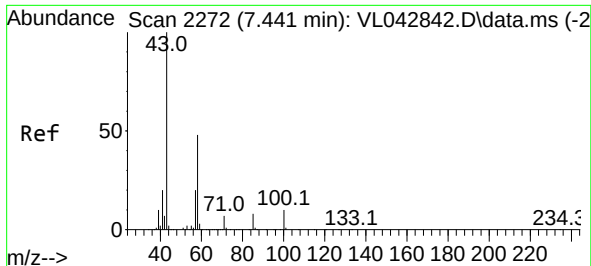
Tgt Ion:173 Resp: 431
Ion Ratio Lower Upper
173 100
175 43.9 39.2 58.8
171 46.9 41.3 61.9



#50
4-Methyl-2-Pentanone
Concen: 0.002 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
58 0.0 29.8 44.8#

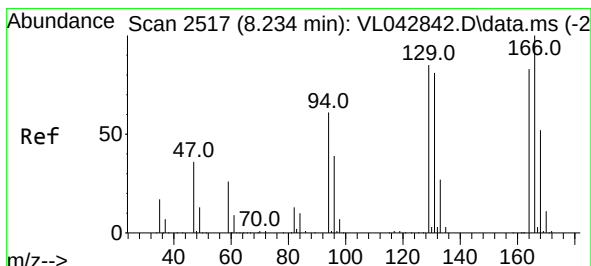
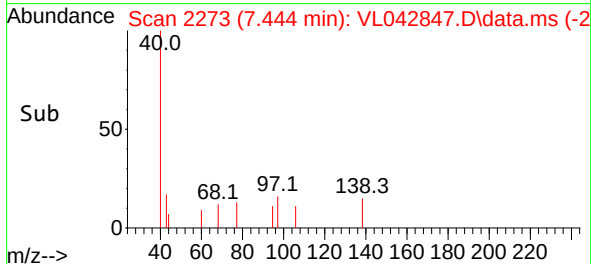
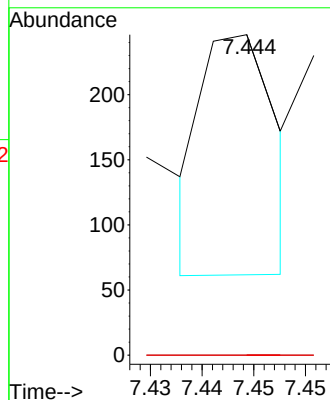
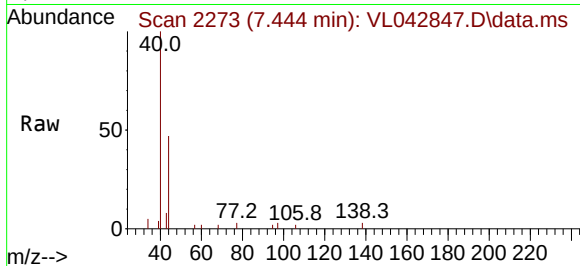




#51
2-Hexanone
Concen: 0.003 ppbv
RT: 7.444 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

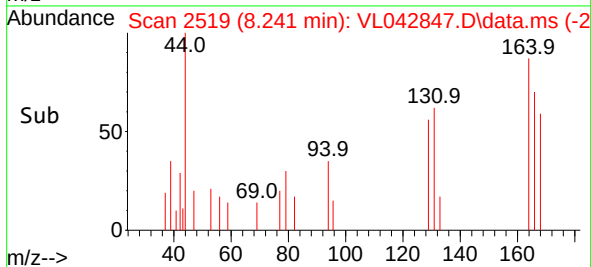
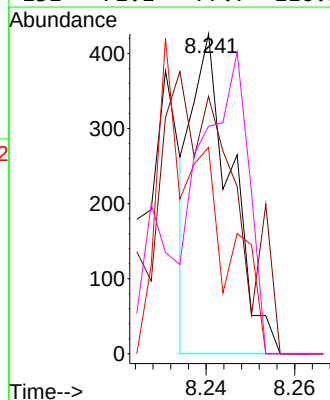
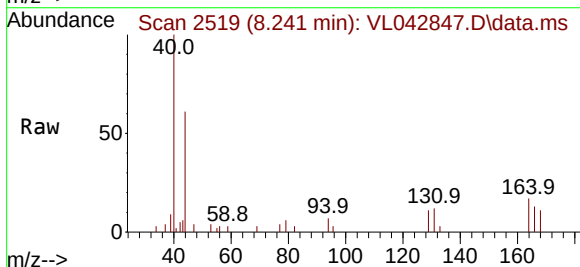
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

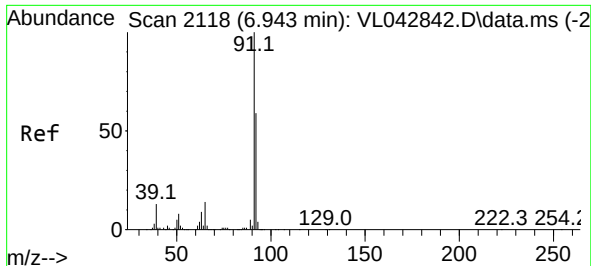
Tgt Ion: 43 Resp: 92
Ion Ratio Lower Upper
43 100
58 0.0 41.0 61.6#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.019 ppbv
RT: 8.241 min Scan# 2519
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 164 Resp: 262
Ion Ratio Lower Upper
164 100
166 80.5 96.5 144.7#
129 64.6 81.8 122.6#
131 71.1 77.7 116.5#

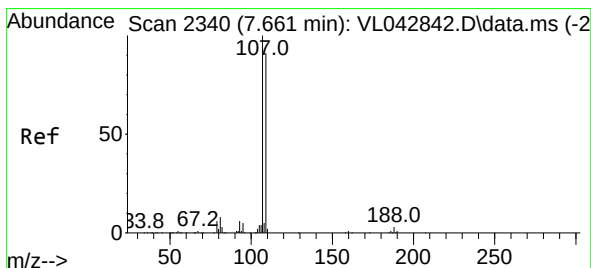
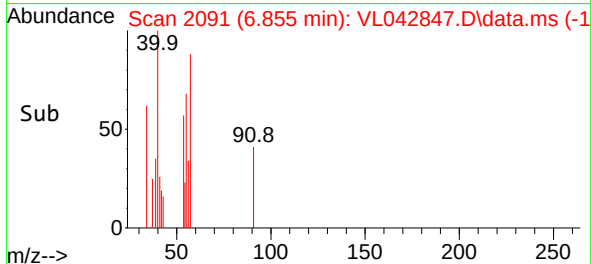
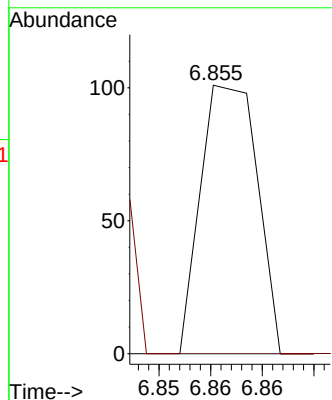
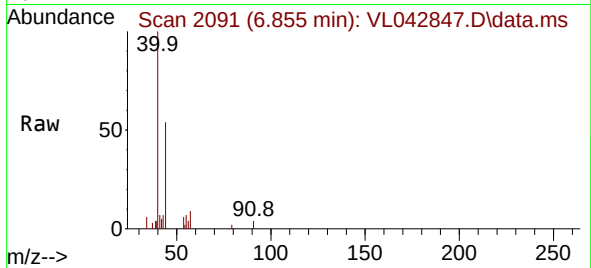




#53
Toluene
Concen: 0.001 ppbv
RT: 6.855 min Scan# 2091
Delta R.T. -0.088 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

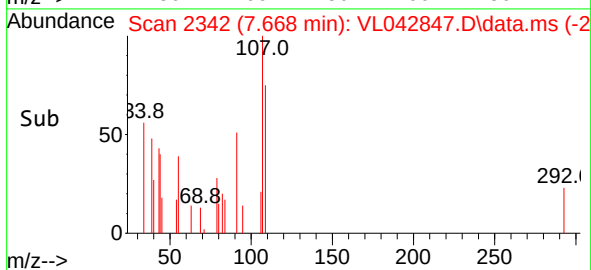
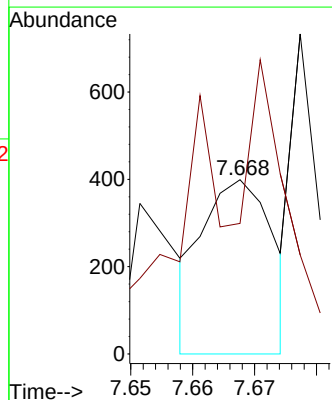
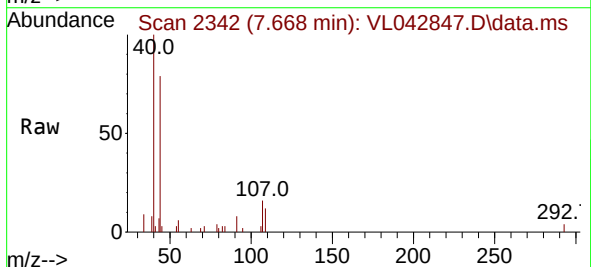
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

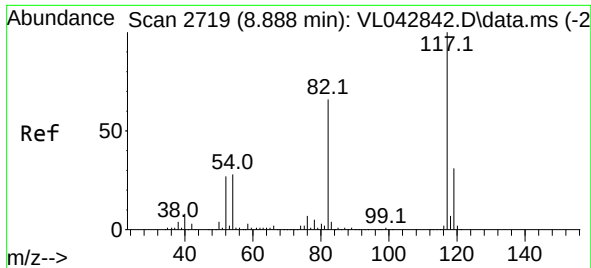
Tgt Ion: 91 Resp: 39
Ion Ratio Lower Upper
91 100
92 59.0 47.8 71.6



#54
1,2-Dibromoethane
Concen: 0.015 ppbv
RT: 7.668 min Scan# 2342
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 107 Resp: 313
Ion Ratio Lower Upper
107 100
109 48.9 72.5 108.7#

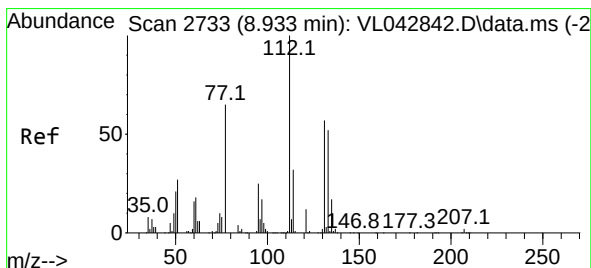
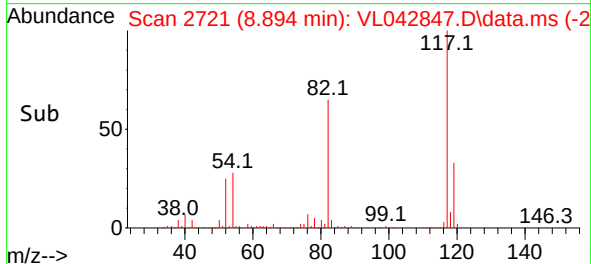
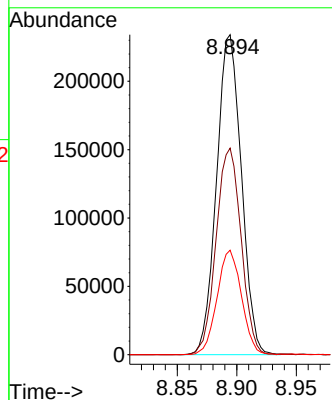
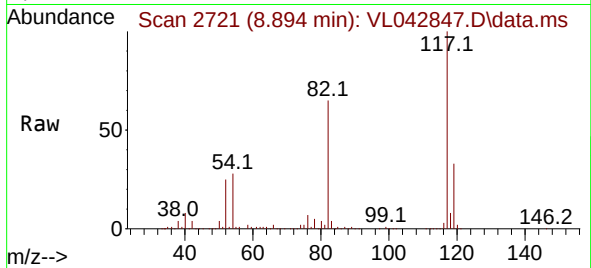




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

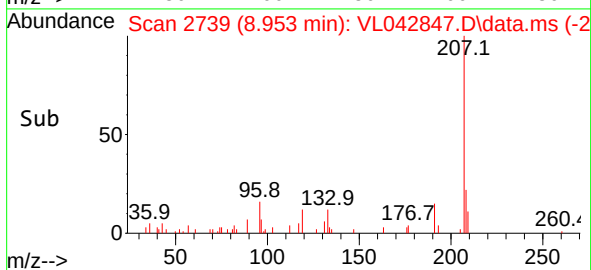
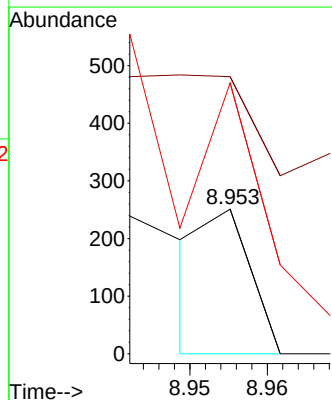
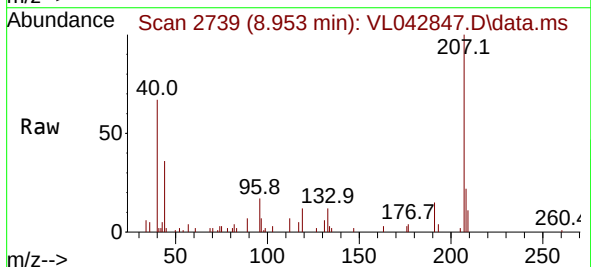
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.03

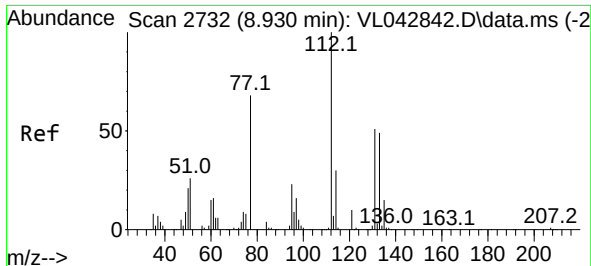
Tgt Ion:117 Resp: 339700
Ion Ratio Lower Upper
117 100
82 65.1 54.6 81.8
119 32.2 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 0.003 ppbv
RT: 8.953 min Scan# 2739
Delta R.T. 0.019 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:131 Resp: 49
Ion Ratio Lower Upper
131 100
133 0.0 77.4 116.0#
119 0.0 51.2 76.8#

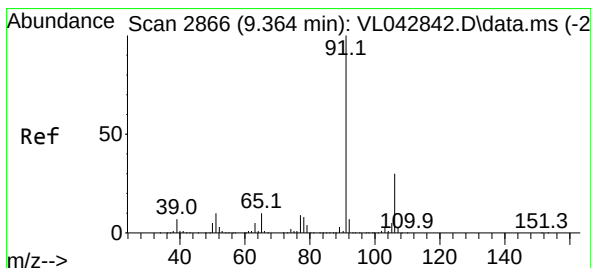
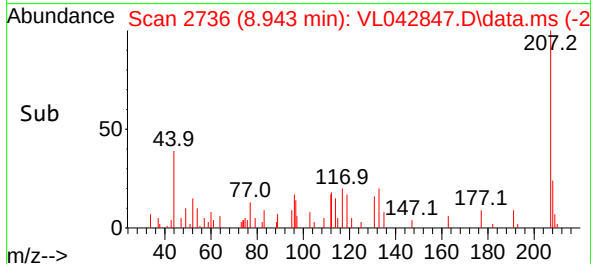
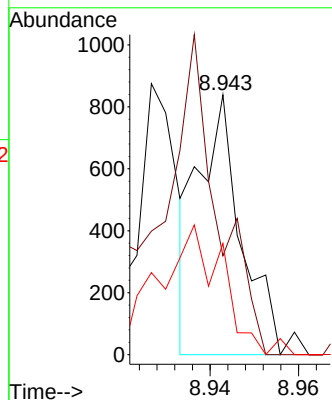
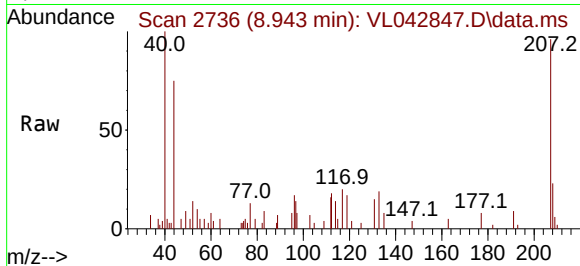




#57
Chlorobenzene
Concen: 0.017 ppbv
RT: 8.943 min Scan# 2117
Delta R.T. 0.013 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

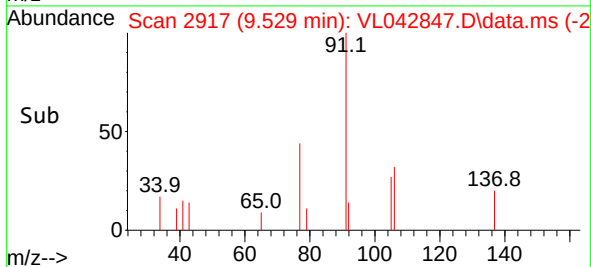
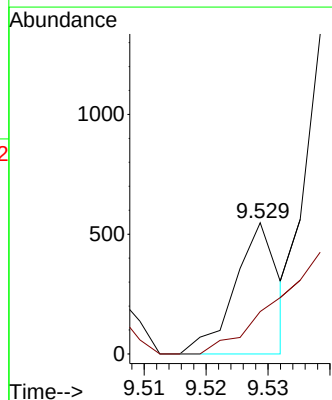
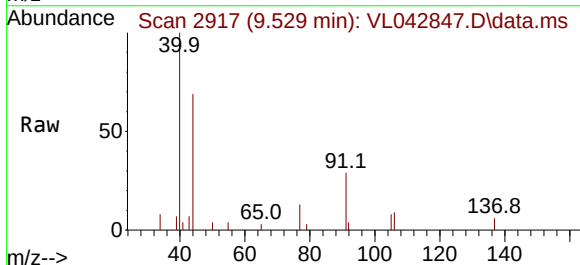
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

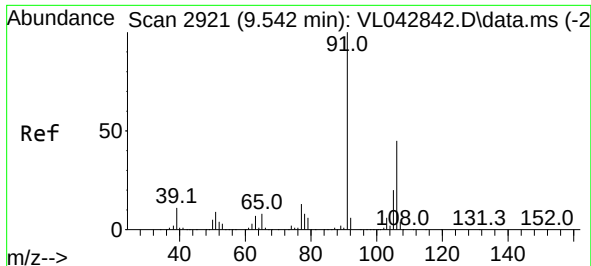
Tgt Ion:112 Resp: 561
Ion Ratio Lower Upper
112 100
77 38.0 55.5 83.3#
114 36.6 27.2 33.2#



#58
Ethyl Benzene
Concen: 0.004 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. 0.165 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 91 Resp: 267
Ion Ratio Lower Upper
91 100
106 32.3 23.9 35.9





#59

m/p-Xylene

Concen: 0.034 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. -0.000 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

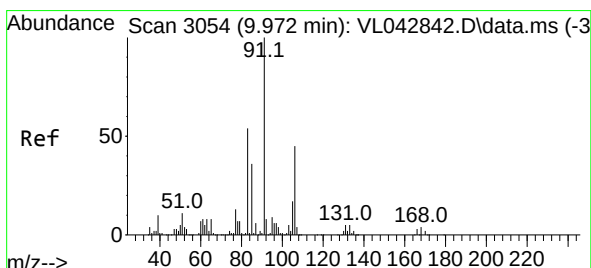
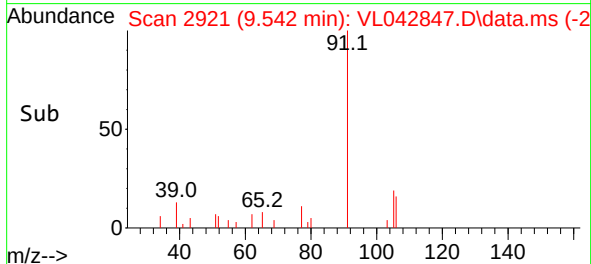
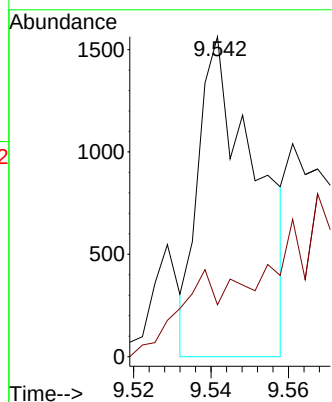
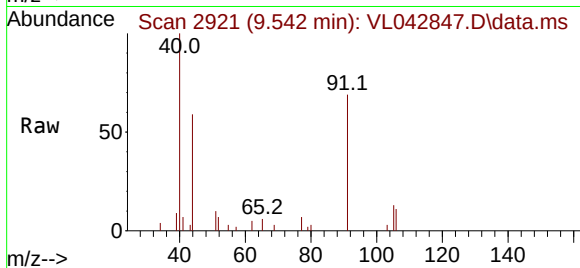
VSTDICC0.03

Tgt Ion: 91 Resp: 1589

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 0.036 ppbv

RT: 9.975 min Scan# 3055

Delta R.T. 0.003 min

Lab File: VL042847.D

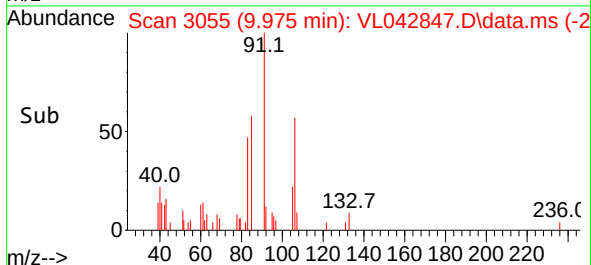
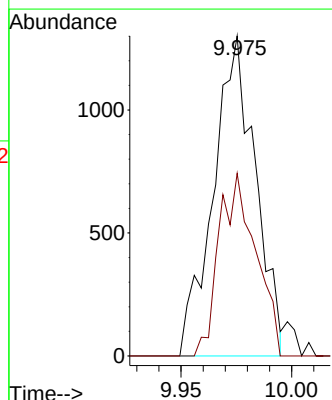
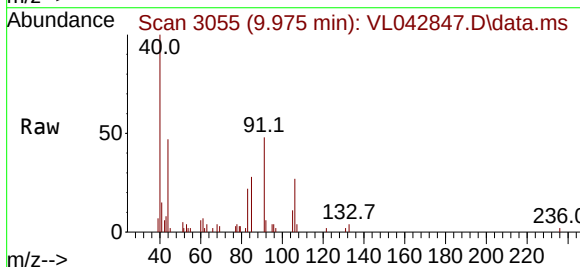
Acq: 13 Aug 2025 11:30

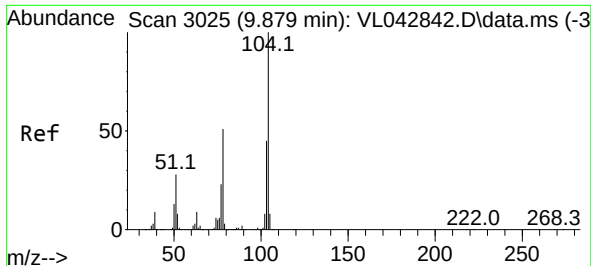
Tgt Ion: 91 Resp: 1722

Ion Ratio Lower Upper

91 100

106 49.8 21.8 65.4

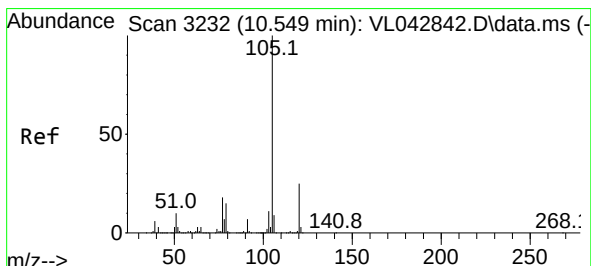
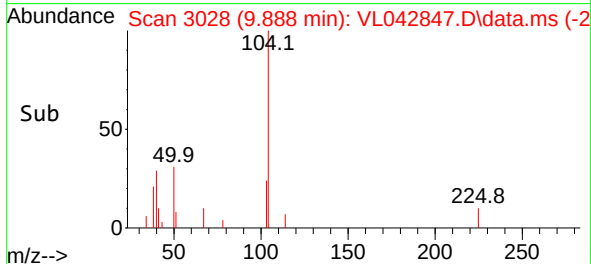
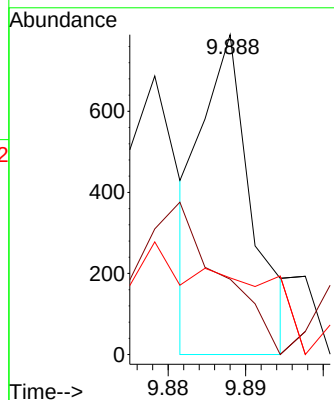
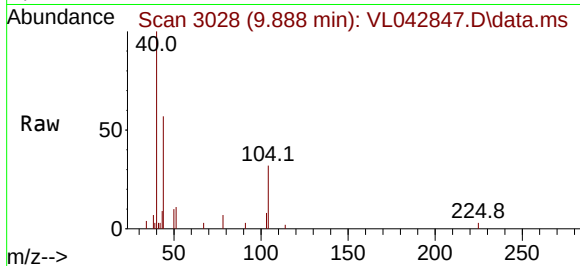




#61
Styrene
Concen: 0.016 ppbv
RT: 9.888 min Scan# 3025
Delta R.T. 0.009 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

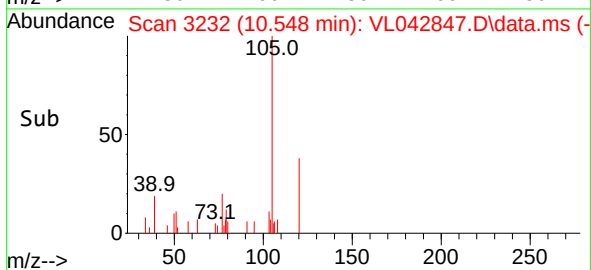
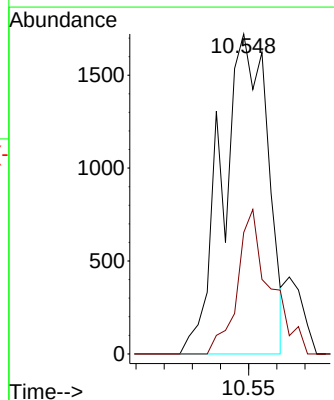
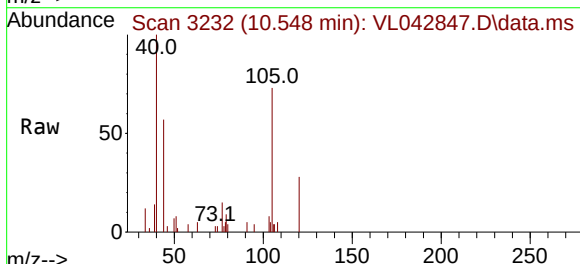
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

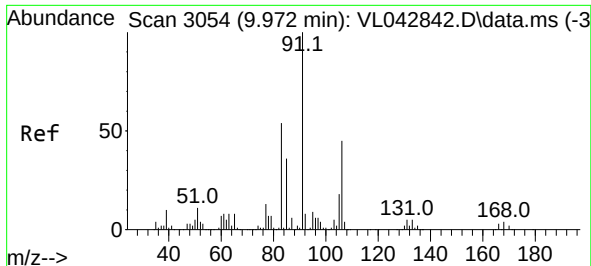
Tgt Ion:104 Resp: 354
Ion Ratio Lower Upper
104 100
78 0.0 40.6 61.0#
103 0.0 37.7 56.5#



#62
Isopropylbenzene
Concen: 0.028 ppbv
RT: 10.548 min Scan# 3232
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:105 Resp: 1945
Ion Ratio Lower Upper
105 100
120 32.1 20.6 30.8#

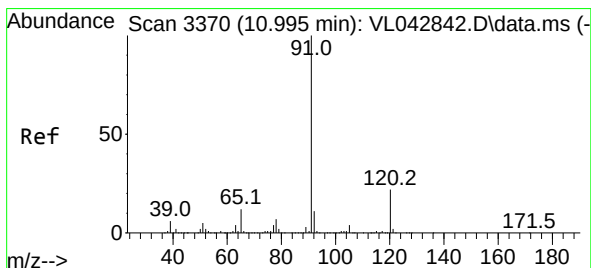
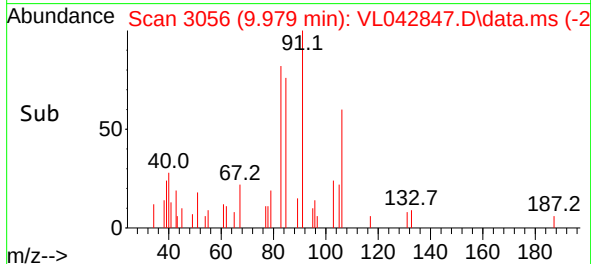
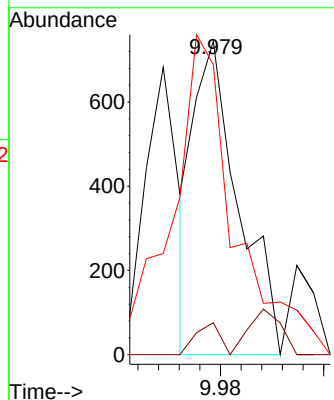
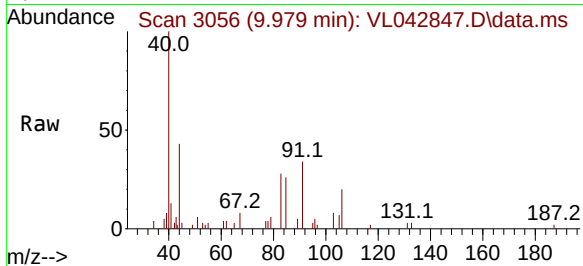




#63
1,1,2,2-Tetrachloroethane
Concen: 0.017 ppbv
RT: 9.979 min Scan# 3054
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

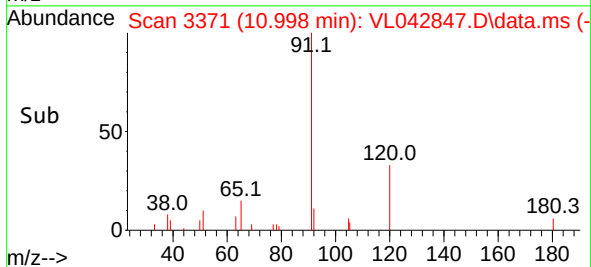
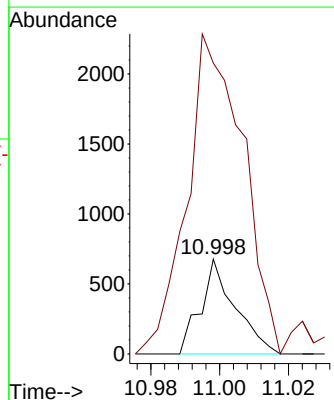
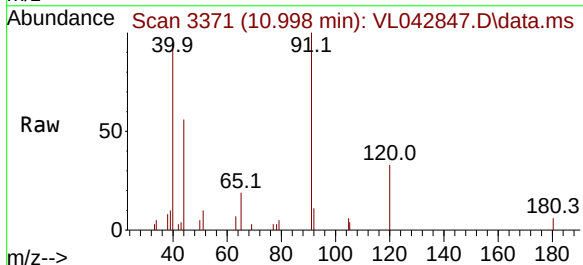
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

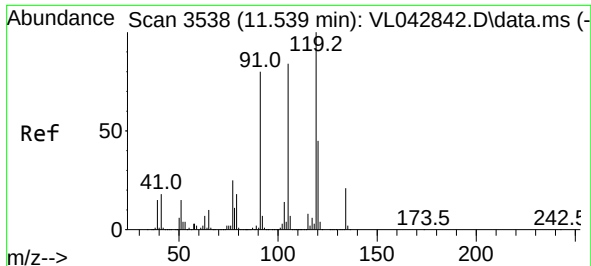
Tgt Ion: 83 Resp: 451
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.3#
85 154.3 32.3 96.8#



#64
n-propylbenzene
Concen: 0.027 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 120 Resp: 470
Ion Ratio Lower Upper
120 100
91 567.7 375.8 563.6#

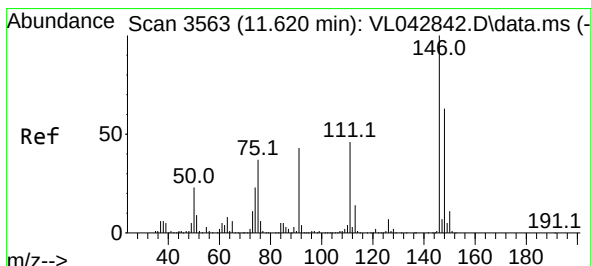
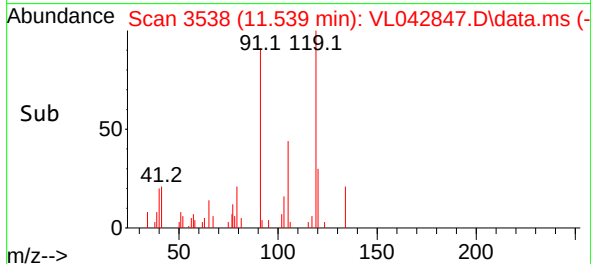
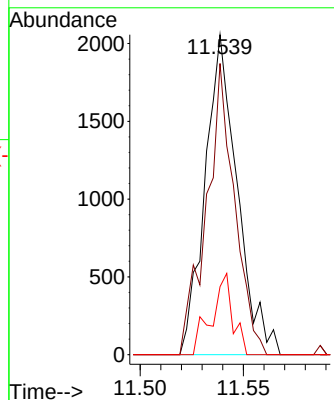
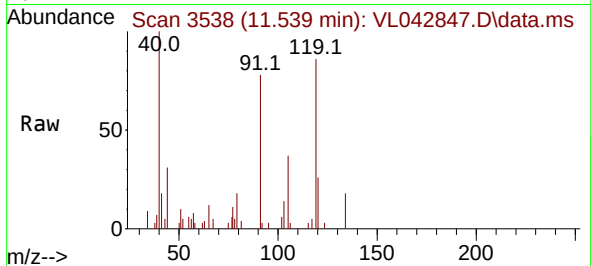




#65
tert-Butylbenzene
Concen: 0.037 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

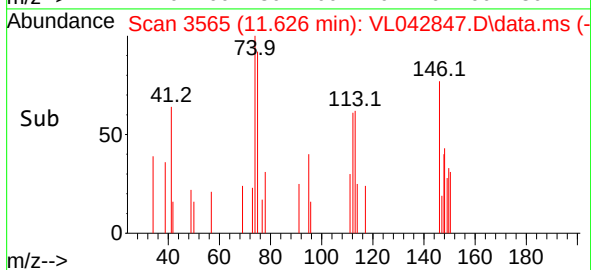
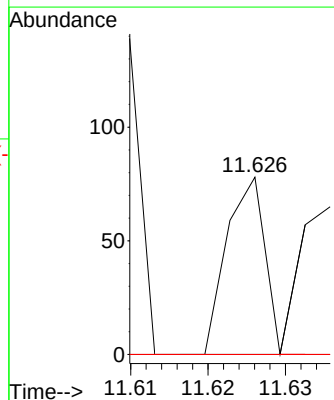
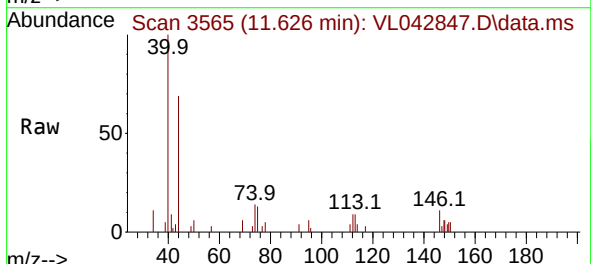
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

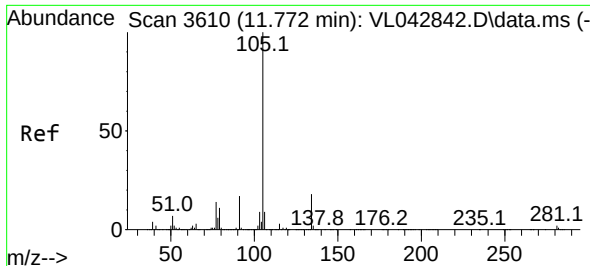
Tgt Ion:119 Resp: 2234
Ion Ratio Lower Upper
119 100
91 79.5 63.9 95.9
134 16.7 17.0 25.4#



#66
Benzyl Chloride
Concen: 0.003 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 91 Resp: 27
Ion Ratio Lower Upper
91 100
126 0.0 14.2 21.4#
128 0.0 5.0 7.6#





#67

sec-Butylbenzene

Concen: 0.032 ppbv

RT: 11.778 min Scan# 3610

Delta R.T. 0.006 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_1

ClientSampleId :

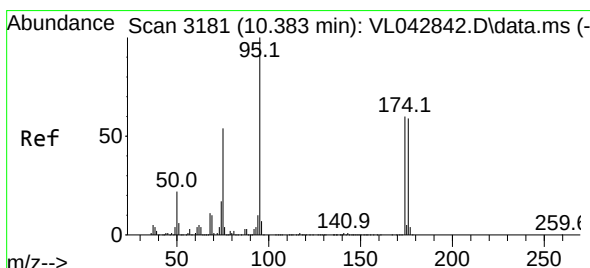
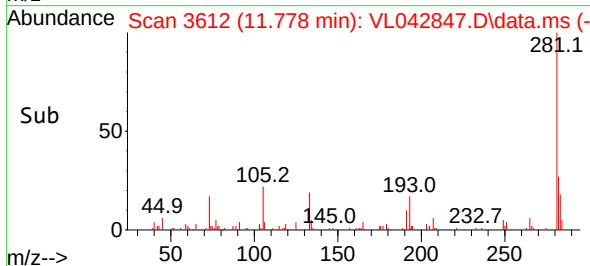
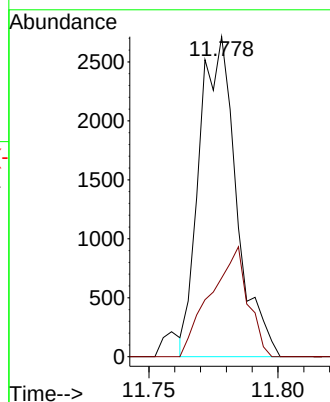
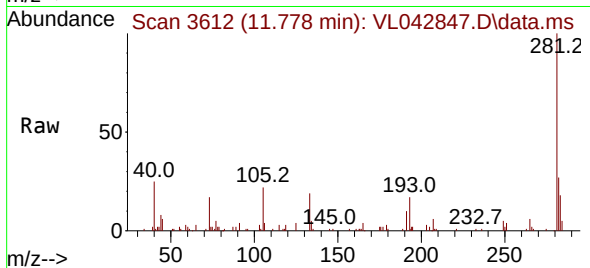
VSTDICC0.03

Tgt Ion:105 Resp: 2703

Ion Ratio Lower Upper

105 100

134 34.8 14.9 22.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.816 ppbv

RT: 10.386 min Scan# 3182

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

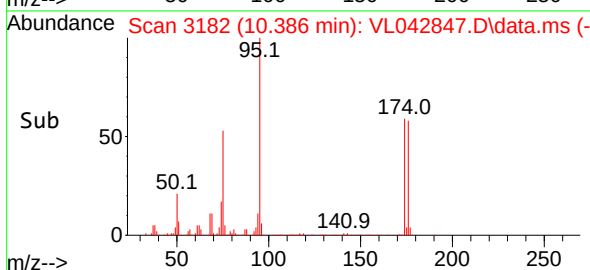
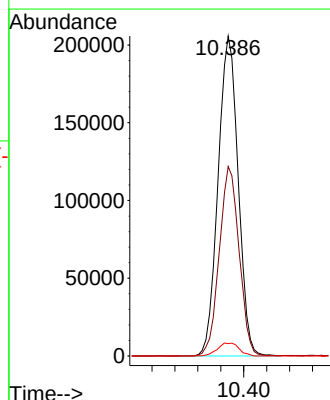
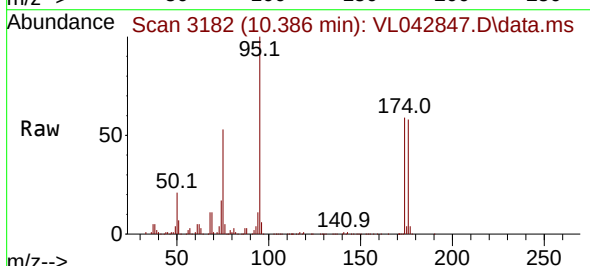
Tgt Ion: 95 Resp: 250082

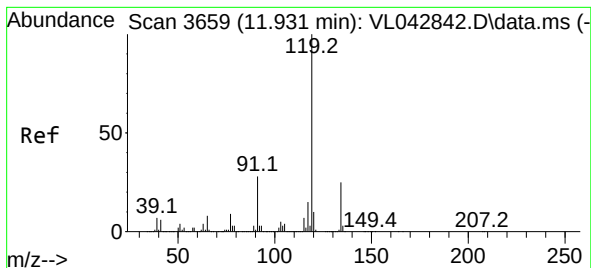
Ion Ratio Lower Upper

95 100

174 58.5 48.4 72.6

175 4.4 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.029 ppbv

RT: 11.934 min Scan# 3660

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

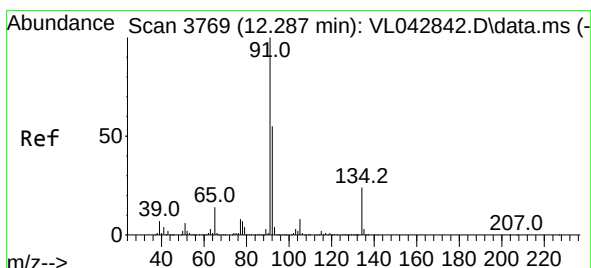
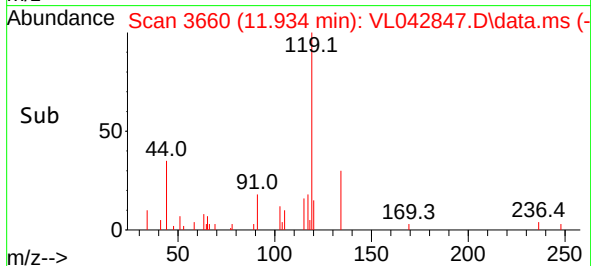
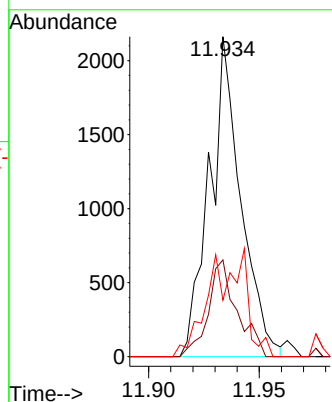
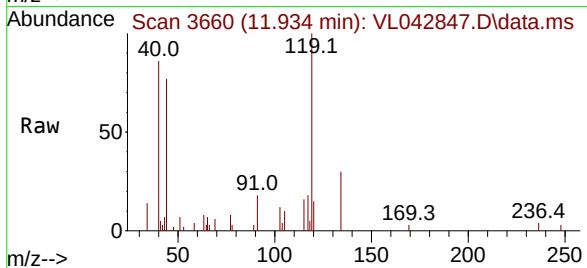
Tgt Ion:119 Resp: 2136

Ion Ratio Lower Upper

119 100

134 27.7 20.6 30.8

91 38.2 22.6 34.0#



#70

n-Butylbenzene

Concen: 0.011 ppbv

RT: 12.296 min Scan# 3772

Delta R.T. 0.009 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

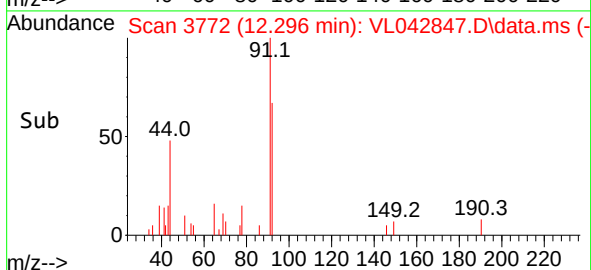
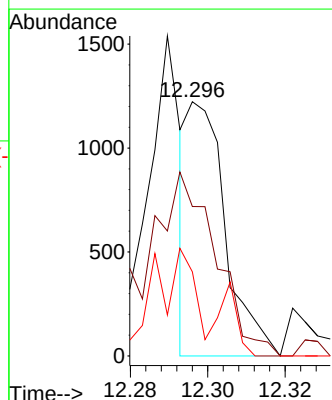
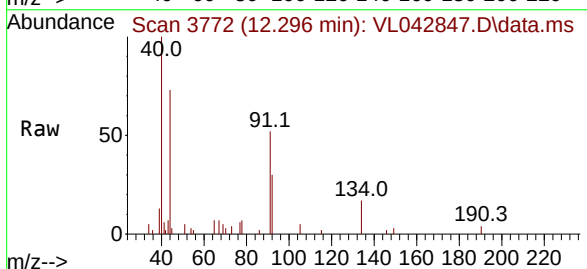
Tgt Ion: 91 Resp: 829

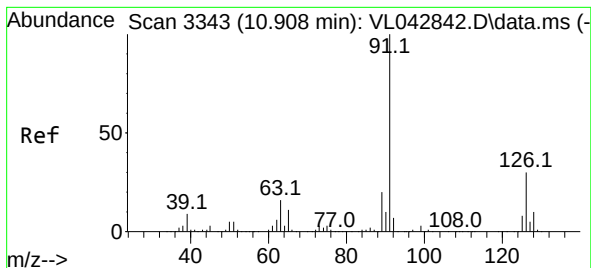
Ion Ratio Lower Upper

91 100

92 132.4 44.6 66.8#

134 60.6 19.0 28.4#





#71

2-Chlorotoluene

Concen: 0.035 ppbv

RT: 10.911 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

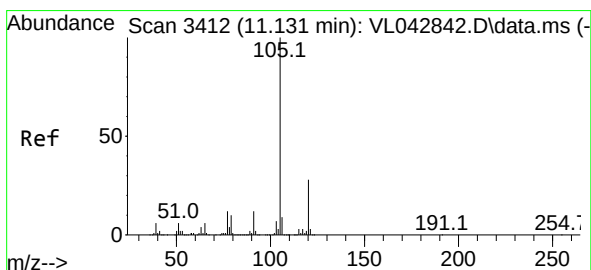
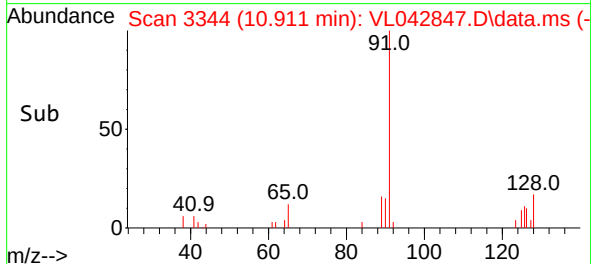
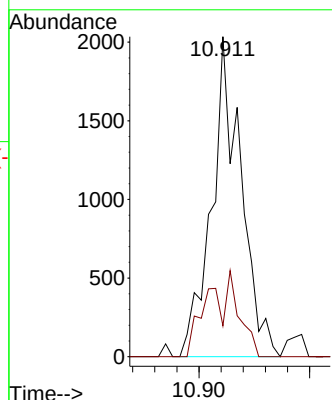
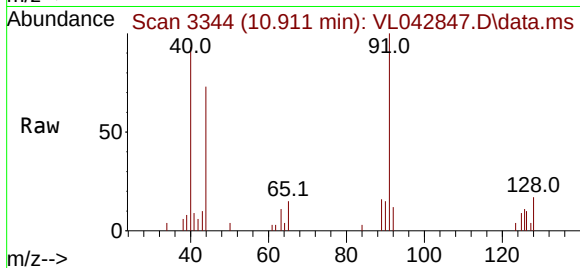
VSTDIC0.03

Tgt Ion: 91 Resp: 1870

Ion Ratio Lower Upper

91 100

126 28.4 12.0 47.8



#72

4-Ethyltoluene

Concen: 0.027 ppbv

RT: 11.134 min Scan# 3413

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Tgt Ion: 105 Resp: 1543

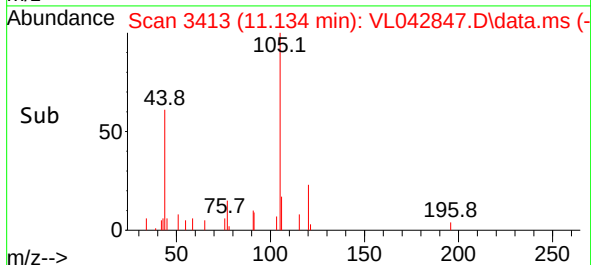
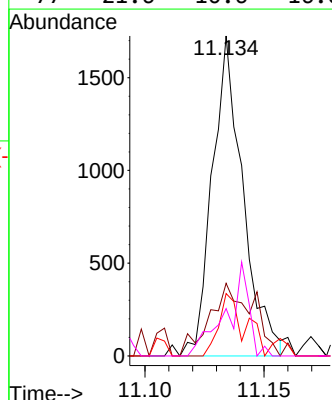
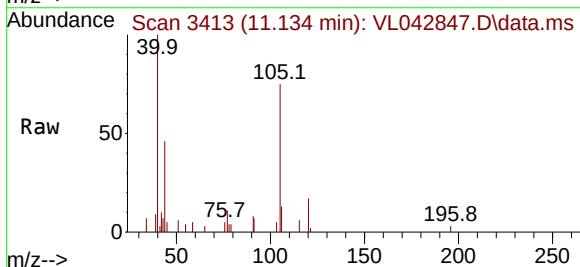
Ion Ratio Lower Upper

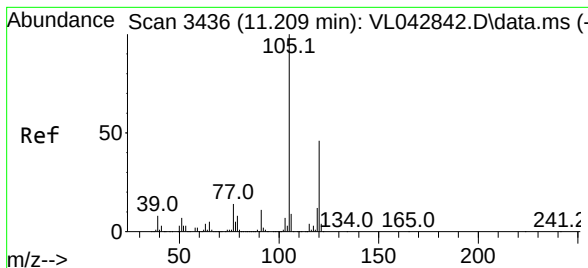
105 100

120 37.8 23.4 35.2#

91 21.4 9.8 14.6#

77 21.6 10.6 16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.035 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

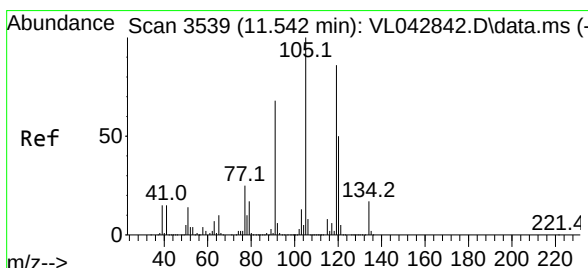
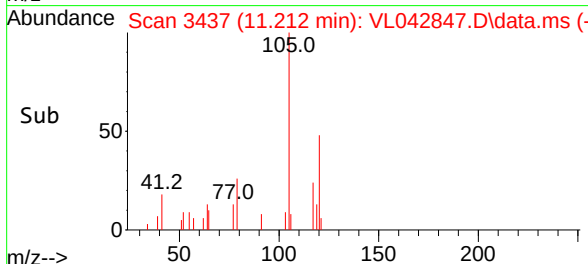
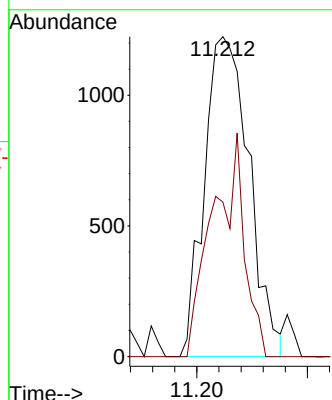
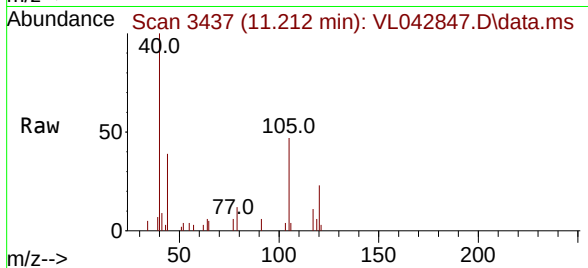
VSTDIC0.03

Tgt Ion:105 Resp: 1716

Ion Ratio Lower Upper

105 100

120 48.3 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 0.030 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Tgt Ion:105 Resp: 1610

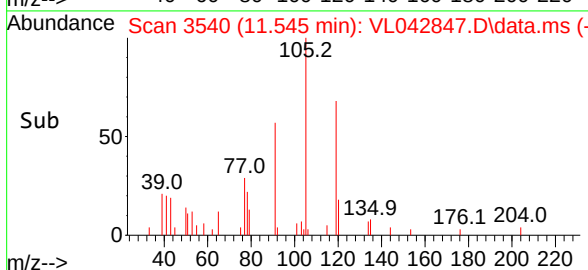
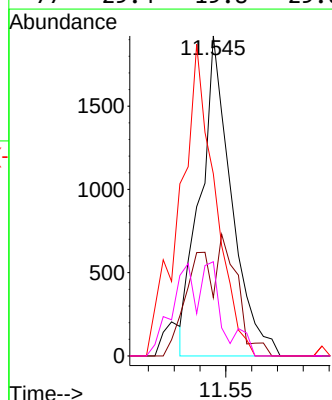
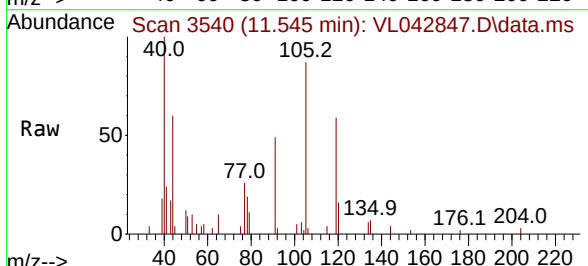
Ion Ratio Lower Upper

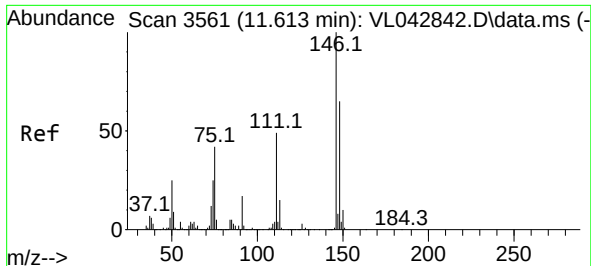
105 100

120 18.3 39.8 59.6#

91 56.9 54.2 81.4

77 29.4 19.8 29.6

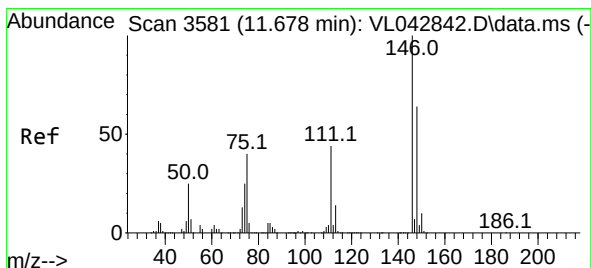
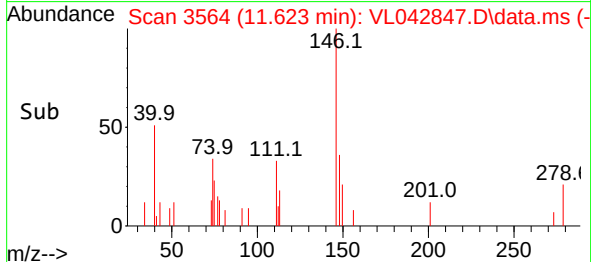
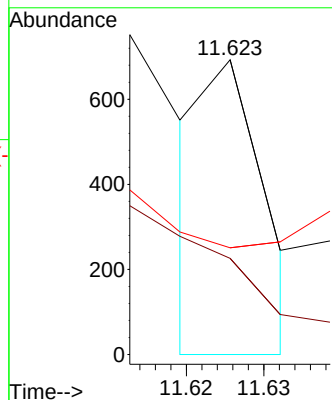
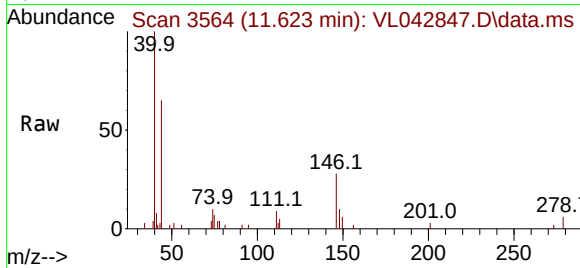




#75
1,3-Dichlorobenzene
Concen: 0.006 ppbv
RT: 11.623 min Scan# 3561
Delta R.T. 0.009 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

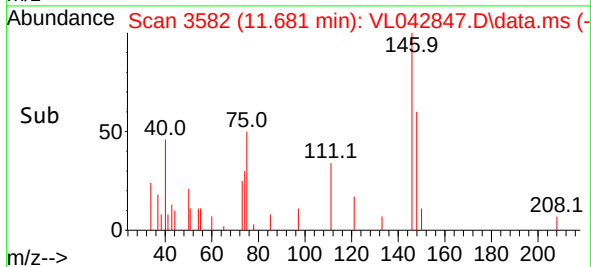
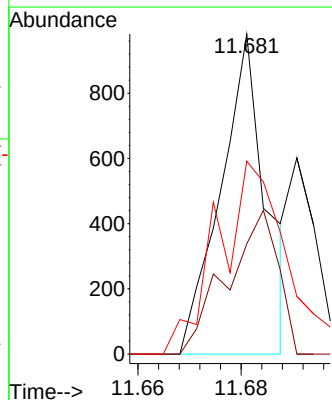
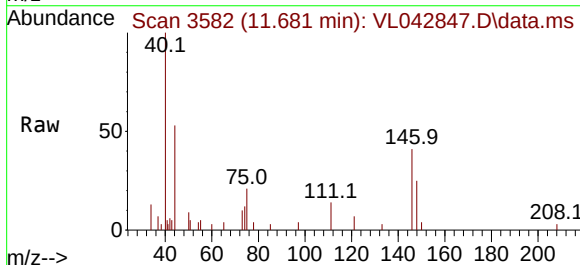
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

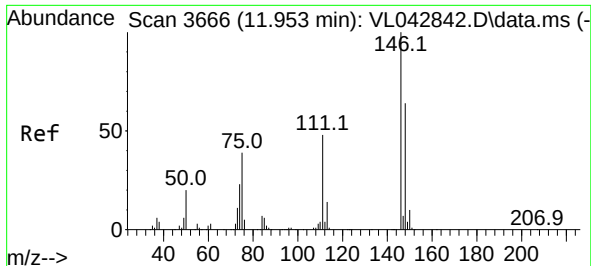
Tgt Ion:146 Resp: 182
Ion Ratio Lower Upper
146 100
111 0.0 23.9 71.7#
148 0.0 31.4 94.0#



#76
1,4-Dichlorobenzene
Concen: 0.019 ppbv
RT: 11.681 min Scan# 3582
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:146 Resp: 596
Ion Ratio Lower Upper
146 100
111 58.2 22.7 68.1
148 92.8 31.8 95.3

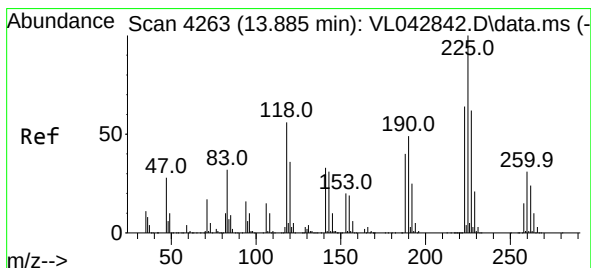
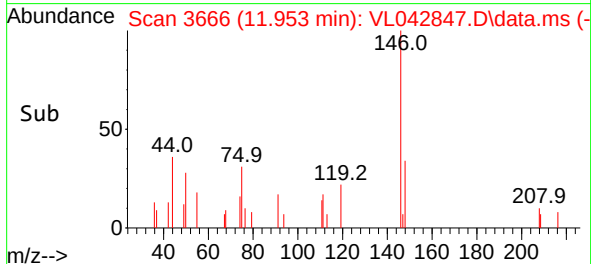
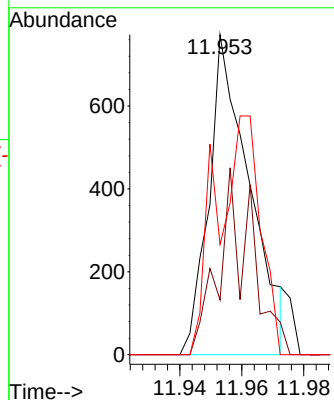
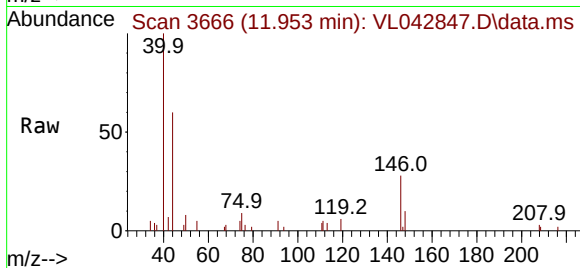




#77
1,2-Dichlorobenzene
Concen: 0.024 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

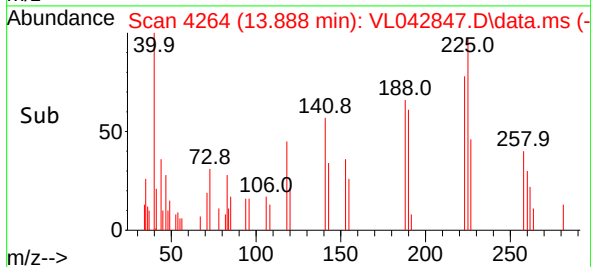
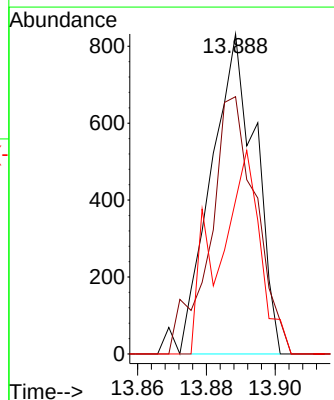
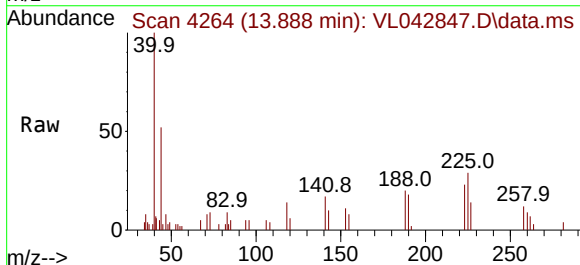
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

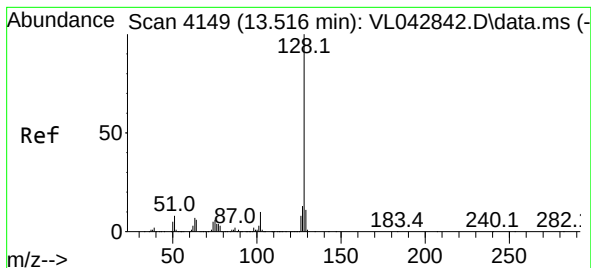
Tgt Ion:146 Resp: 701
Ion Ratio Lower Upper
146 100
111 46.9 24.6 74.0
148 80.2 32.0 96.0



#78
Hexachloro-1,3-Butadiene
Concen: 0.030 ppbv
RT: 13.888 min Scan# 4264
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:225 Resp: 744
Ion Ratio Lower Upper
225 100
223 83.6 51.4 77.2#
227 59.5 51.9 77.9





#79

Naphthalene

Concen: 0.021 ppbv

RT: 13.523 min Scan# 4149

Delta R.T. 0.006 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

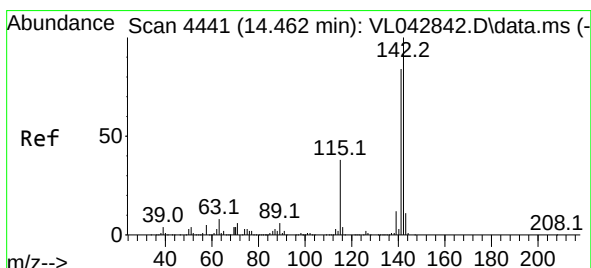
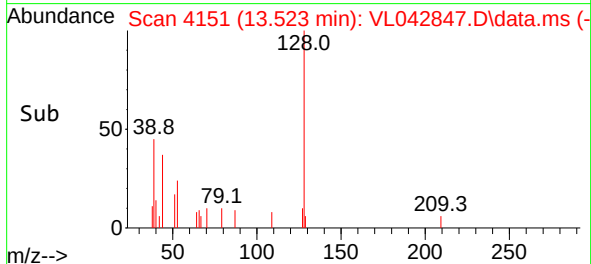
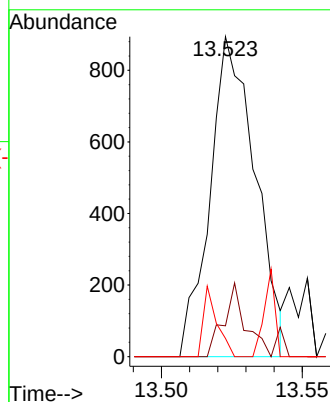
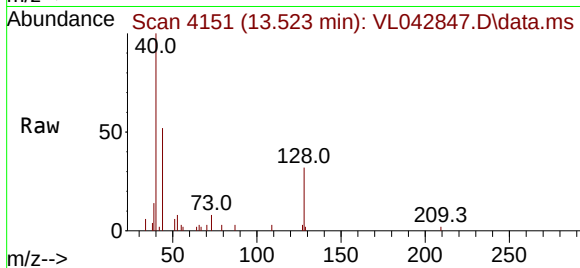
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion:	128	Resp:	998
Ion	Ratio	Lower	Upper
128	100		
127	9.1	10.6	16.0#
129	5.4	8.9	13.3#



#80

Naphthalene, 2-methyl-

Concen: 0.004 ppbv

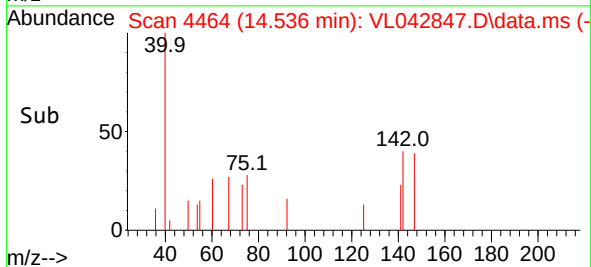
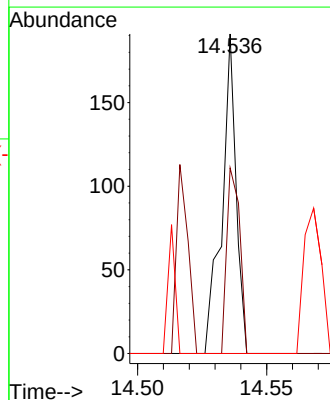
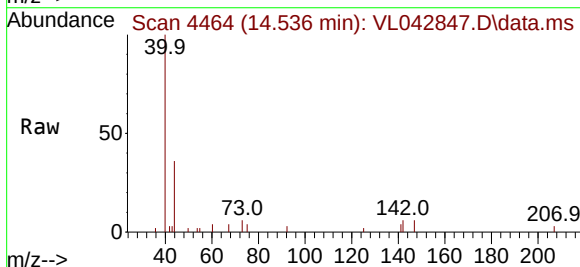
RT: 14.536 min Scan# 4464

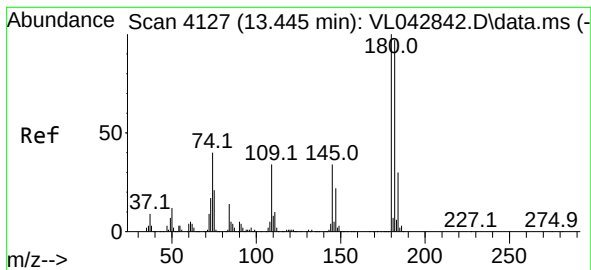
Delta R.T. 0.074 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Tgt Ion:	142	Resp:	73
Ion	Ratio	Lower	Upper
142	100		
141	101.4	67.0	100.6#
115	56.2	30.9	46.3#

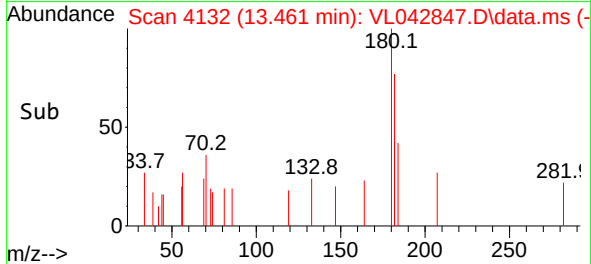
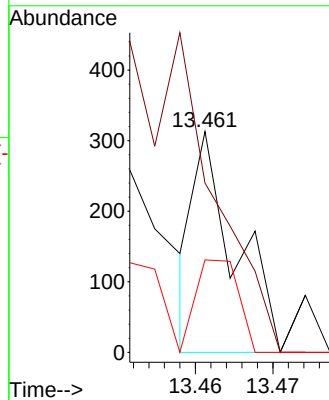
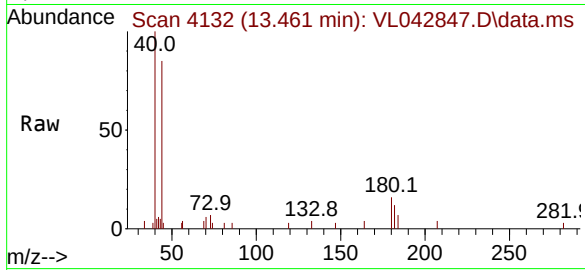




#81
 1,2,4-Trichlorobenzene
 Concen: 0.005 ppbv
 RT: 13.461 min Scan# 41
 Delta R.T. 0.016 min
 Lab File: VL042847.D
 Acq: 13 Aug 2025 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tgt Ion	Ratio	Lower	Upper
180	100		
182	352.6	76.9	115.3#
184	0.0	24.5	36.7#



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

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 26 06:05:16 2022
 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

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 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

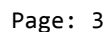
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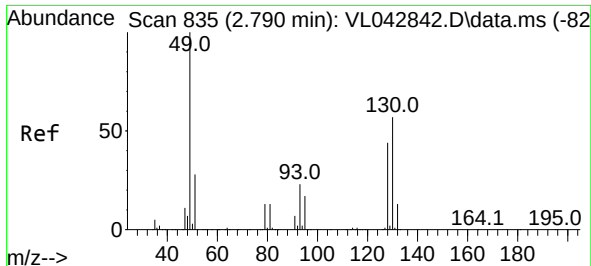
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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	9.542	91	667628	14.262	ppbv #	100
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

Quant Time: Aug 14 01:51:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
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Response via : Initial Calibration

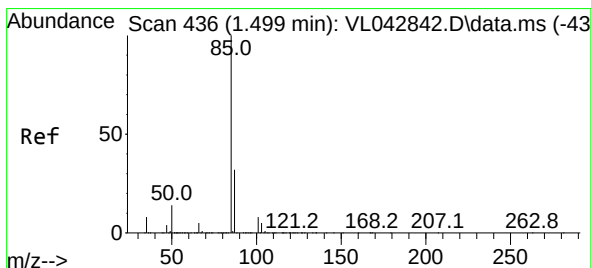
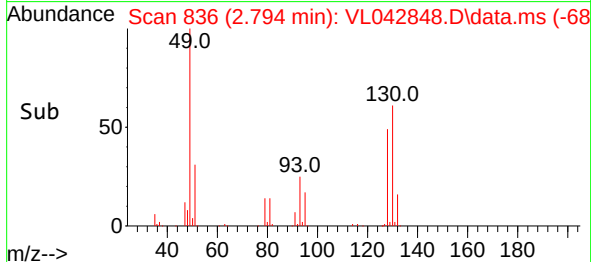
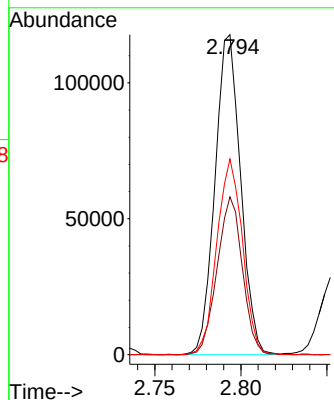
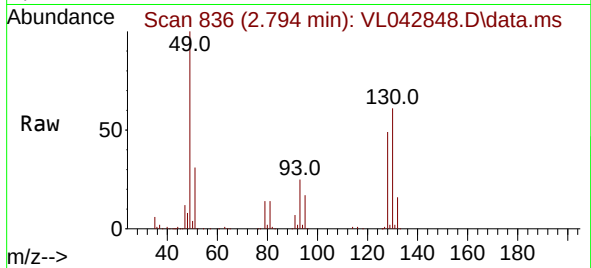




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.794 min Scan# 835
 Delta R.T. 0.004 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

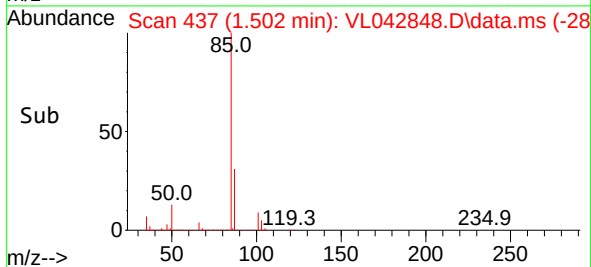
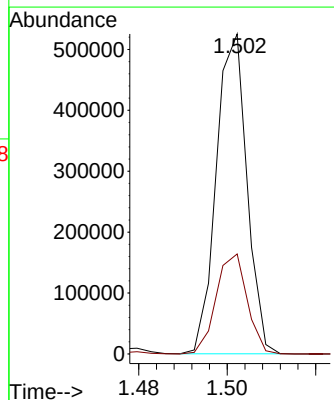
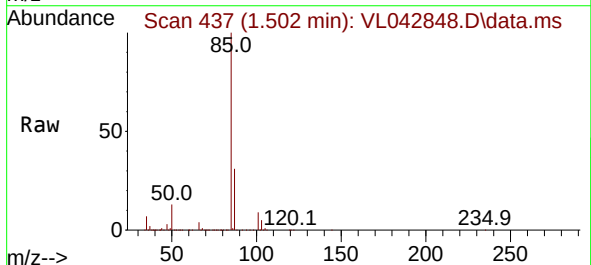
Instrument :
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 ClientSampleId :
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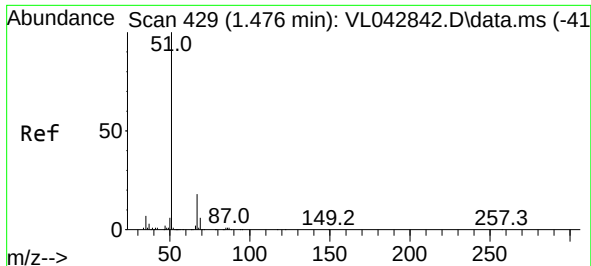
Tgt Ion: 49 Resp: 122073
 Ion Ratio Lower Upper
 49 100
 128 48.4 23.7 71.1
 130 61.2 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 14.150 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 85 Resp: 253151
 Ion Ratio Lower Upper
 85 100
 87 31.2 25.3 37.9

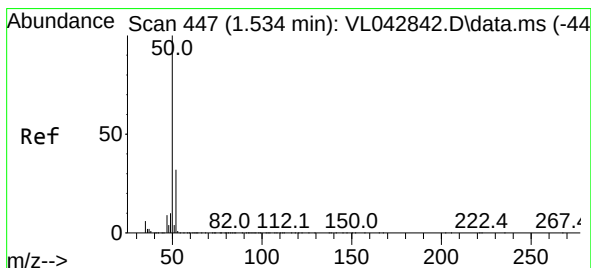
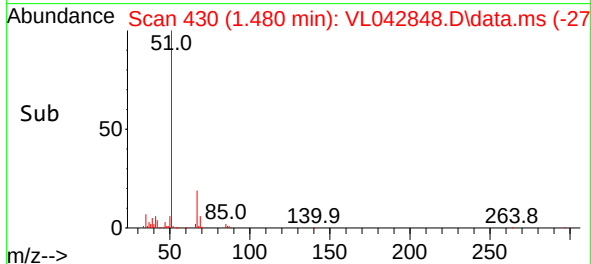
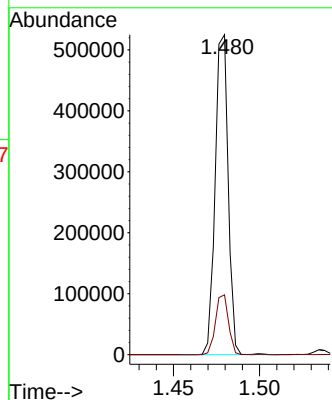
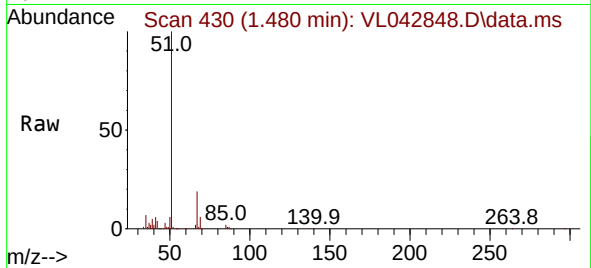




#3
Chlorodifluoromethane
Concen: 13.910 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

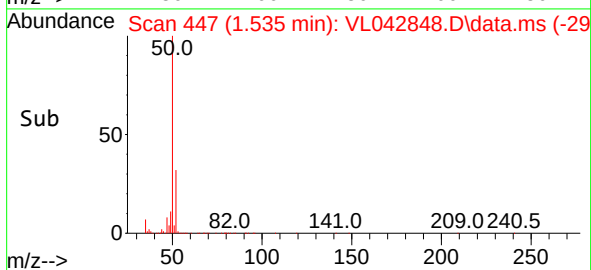
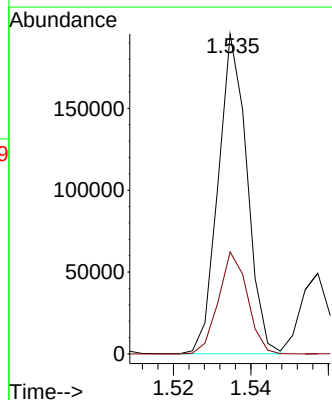
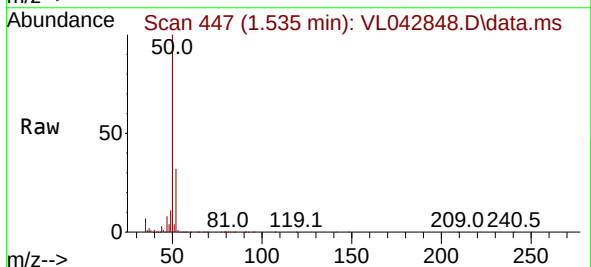
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ClientSampleId :
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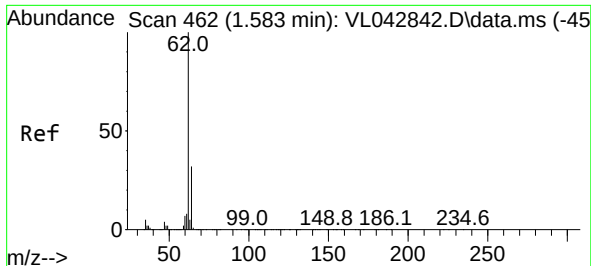
Tgt Ion: 51 Resp: 275350
Ion Ratio Lower Upper
51 100
67 18.9 14.9 22.3



#4
Chloromethane
Concen: 13.986 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 50 Resp: 100974
Ion Ratio Lower Upper
50 100
52 31.9 25.9 38.9

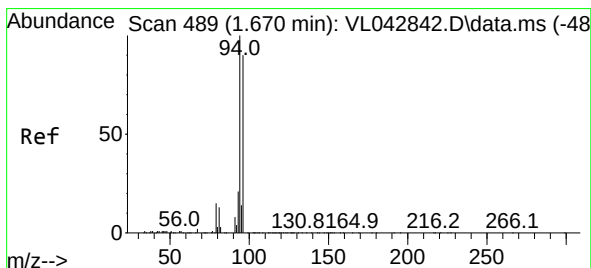
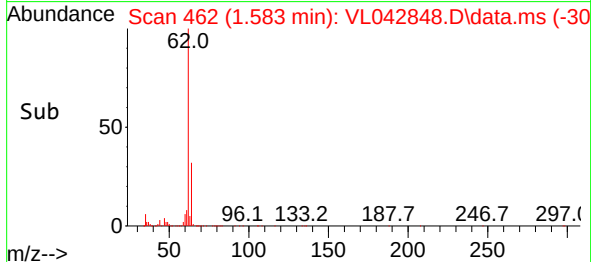
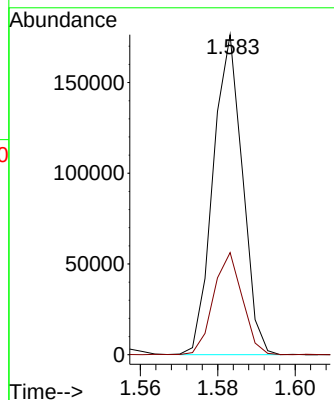
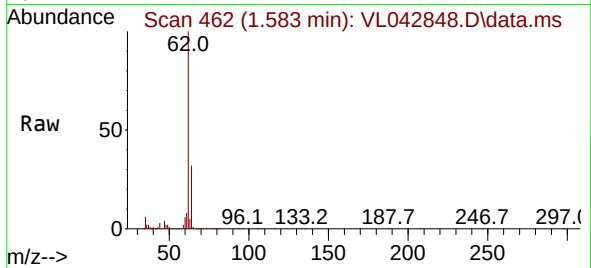




#5
Vinyl Chloride
Concen: 13.053 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

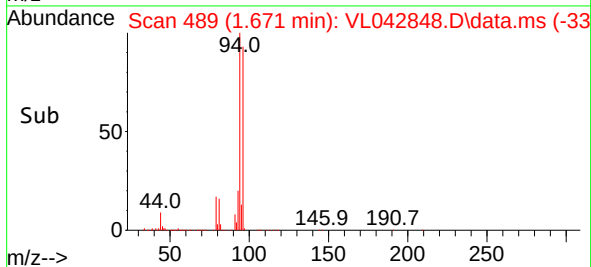
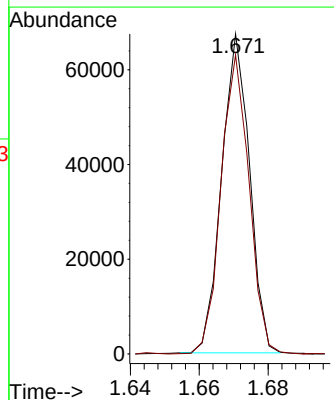
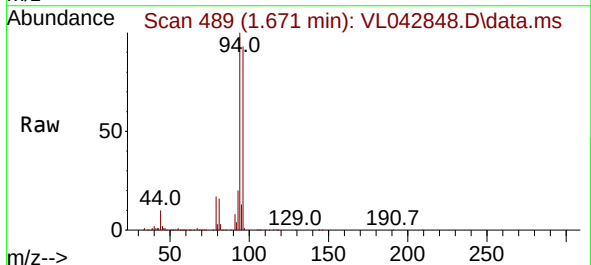
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

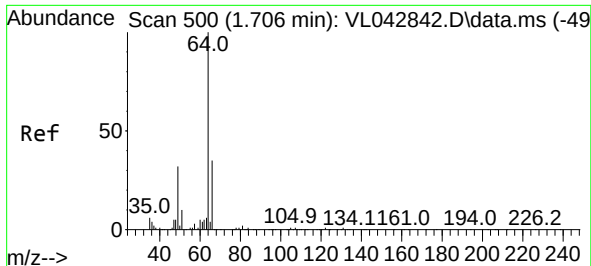
Tgt Ion: 62 Resp: 92812
Ion Ratio Lower Upper
62 100
64 31.8 25.4 38.2



#6
Bromomethane
Concen: 13.275 ppbv
RT: 1.671 min Scan# 489
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 94 Resp: 37740
Ion Ratio Lower Upper
94 100
96 93.7 72.1 108.1

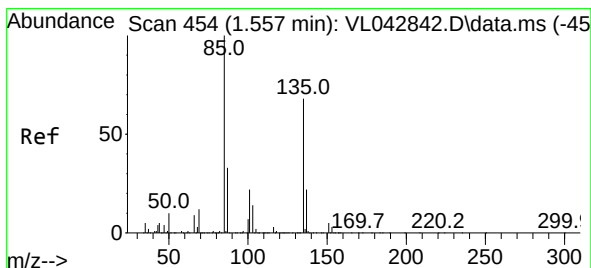
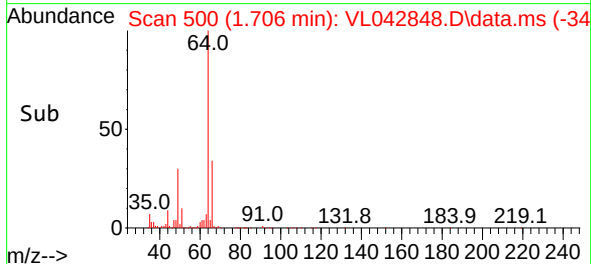
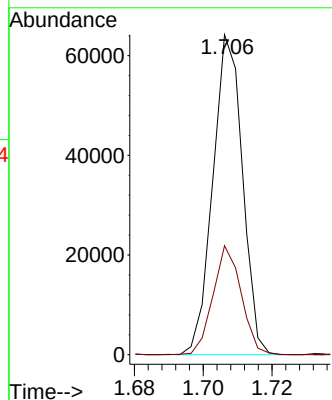
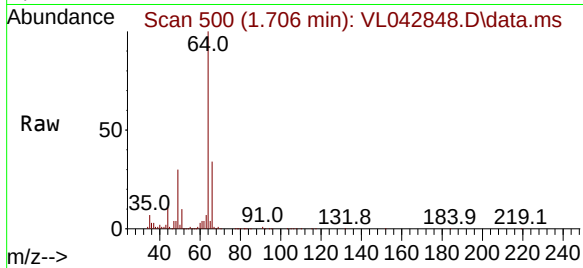




#7
Chloroethane
Concen: 13.828 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

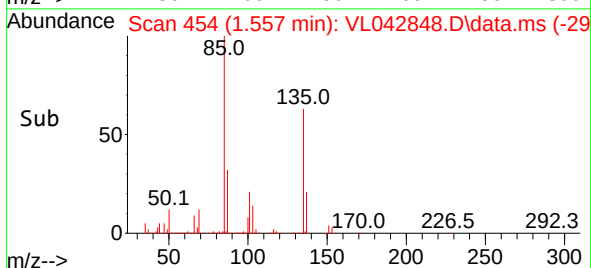
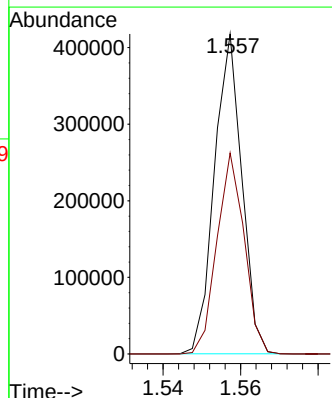
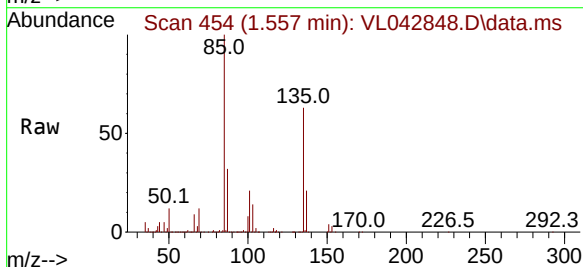
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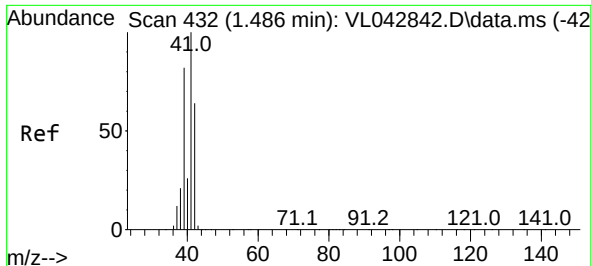
Tgt Ion: 64 Resp: 38398
Ion Ratio Lower Upper
64 100
66 34.1 28.6 42.8



#8
Dichlorotetrafluoroethane
Concen: 14.029 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 85 Resp: 205386
Ion Ratio Lower Upper
85 100
135 62.7 51.2 76.8





#9

Propene

Concen: 13.094 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

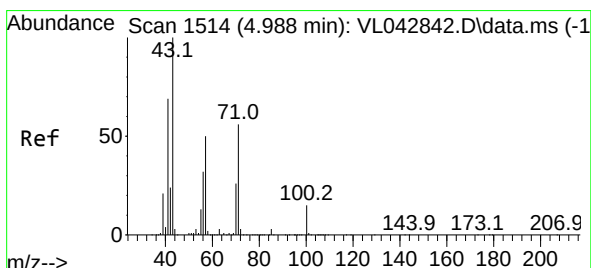
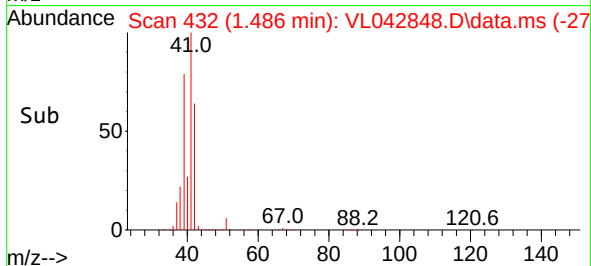
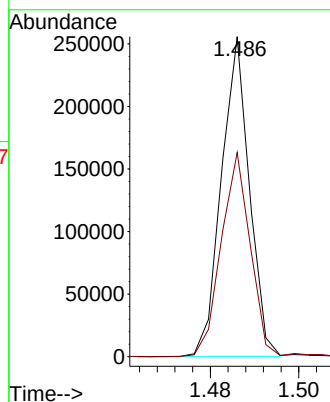
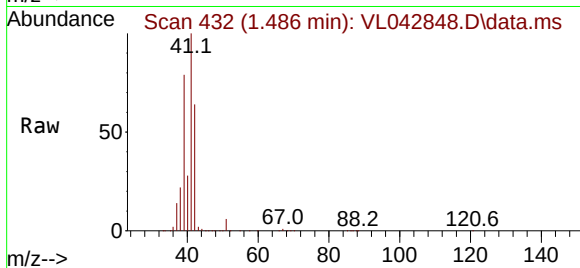
VSTDIC015

Tgt Ion: 41 Resp: 111824

Ion Ratio Lower Upper

41 100

42 67.0 53.0 79.4



#10

Heptane

Concen: 13.742 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.000 min

Lab File: VL042848.D

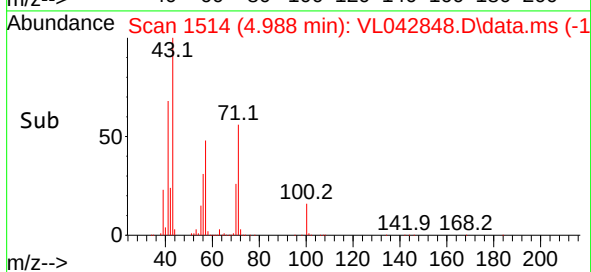
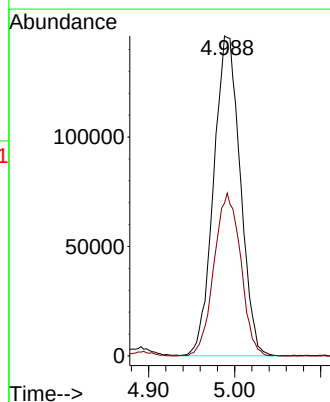
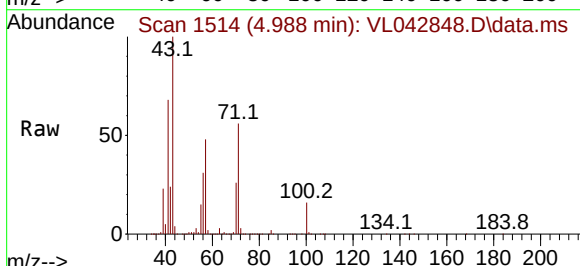
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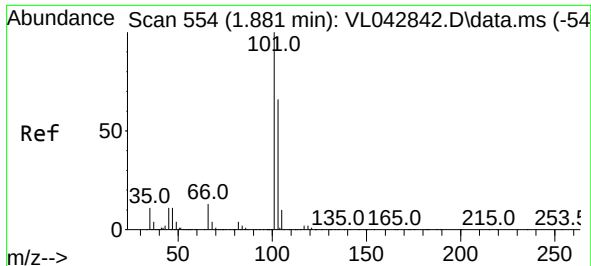
Tgt Ion: 43 Resp: 313734

Ion Ratio Lower Upper

43 100

57 51.0 41.4 62.0

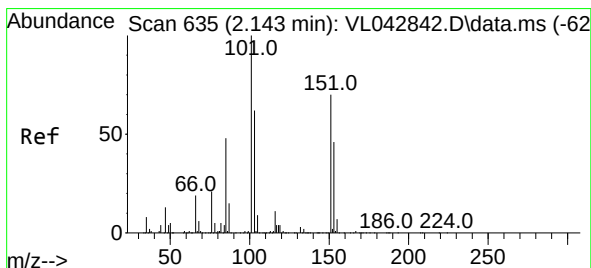
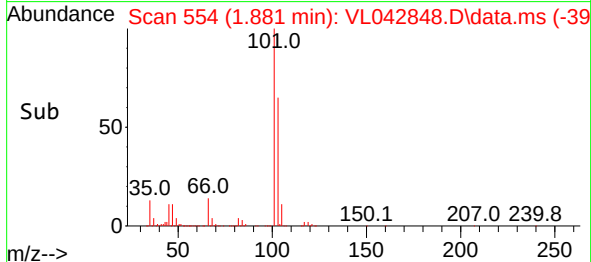
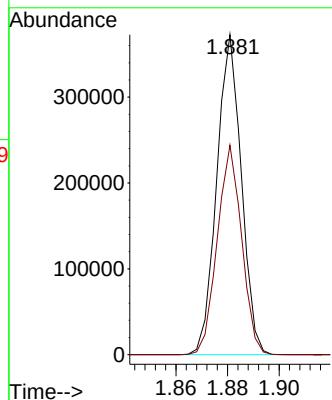
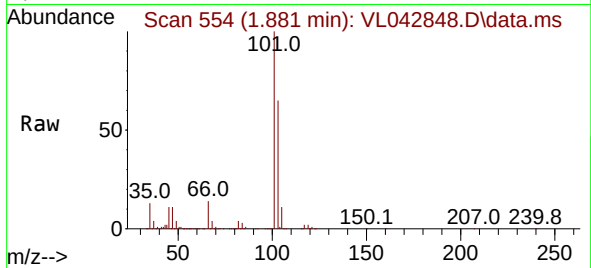




#11
 Trichlorofluoromethane
 Concen: 13.957 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

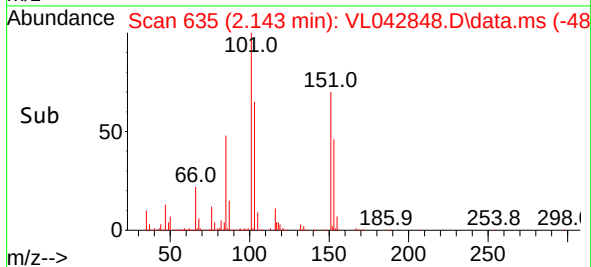
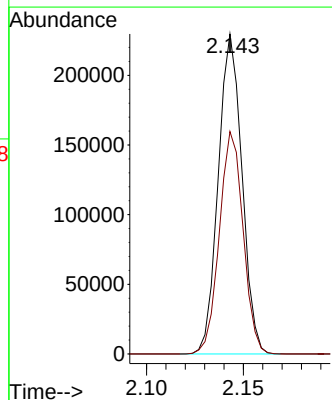
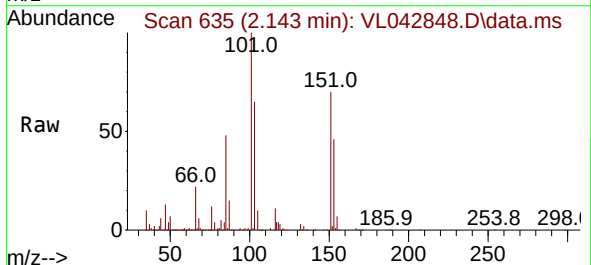
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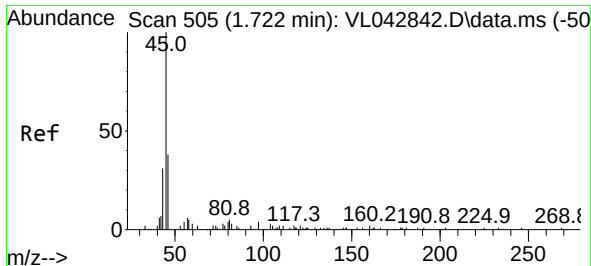
Tgt Ion:101 Resp: 246354
 Ion Ratio Lower Upper
 101 100
 103 65.5 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.877 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion:101 Resp: 195231
 Ion Ratio Lower Upper
 101 100
 151 69.7 56.4 84.6

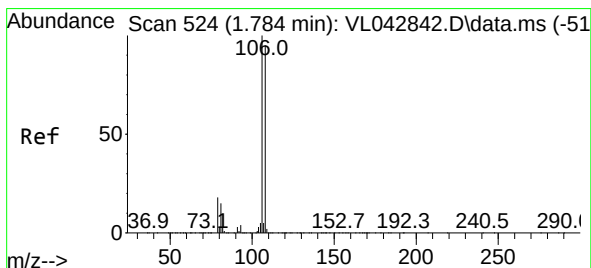
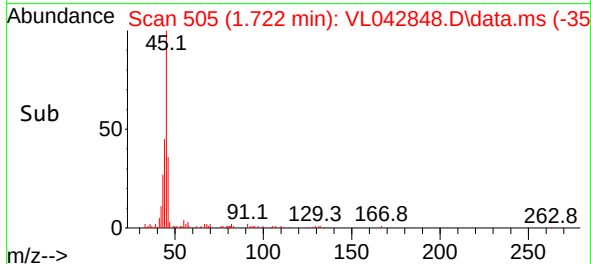
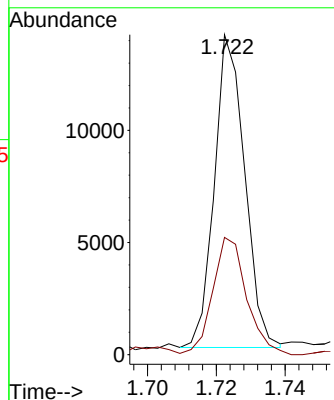
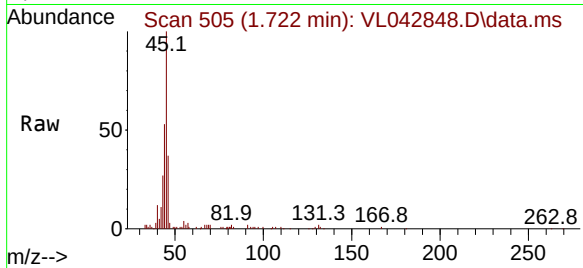




#13
Ethanol
Concen: 10.086 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

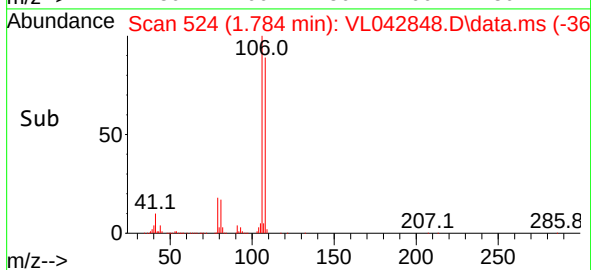
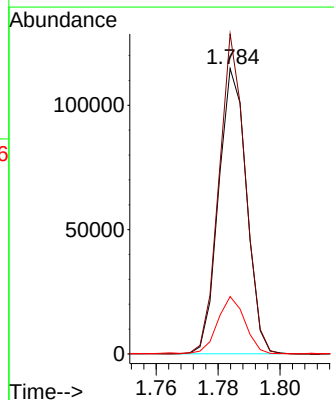
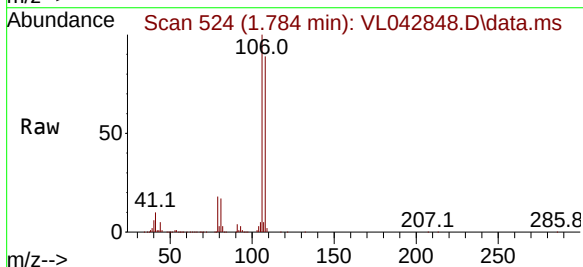
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

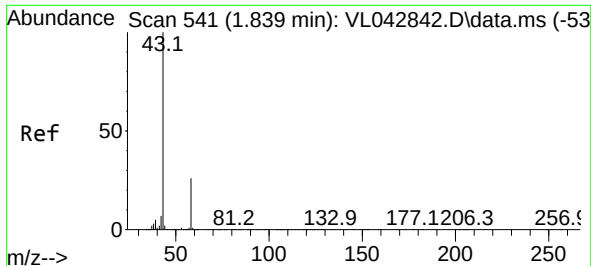
Tgt Ion: 45 Resp: 8534
Ion Ratio Lower Upper
45 100
46 42.3 17.5 69.9



#14
Bromoethene
Concen: 14.072 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 108 Resp: 71671
Ion Ratio Lower Upper
108 100
106 106.0 85.1 127.7
79 19.4 16.3 24.5

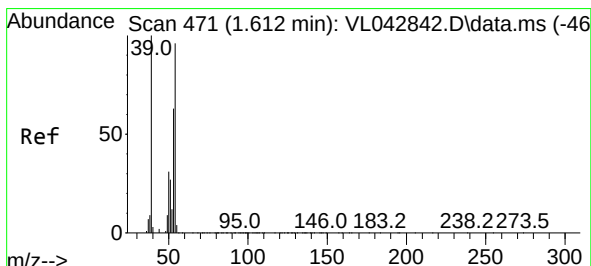
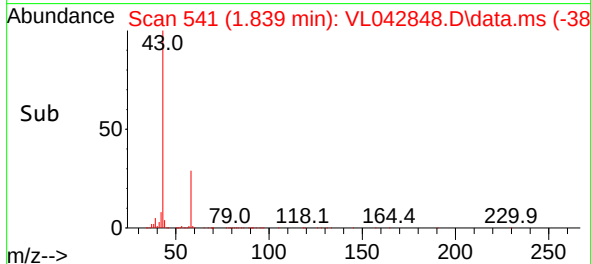
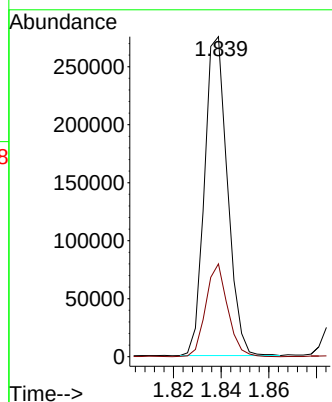
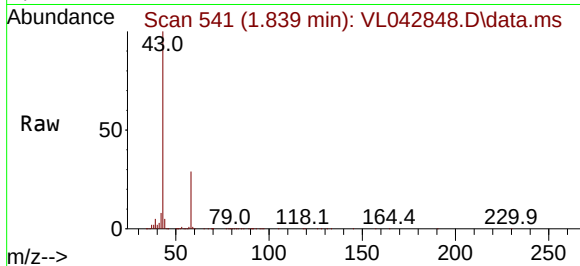




#15
Acetone
Concen: 11.402 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

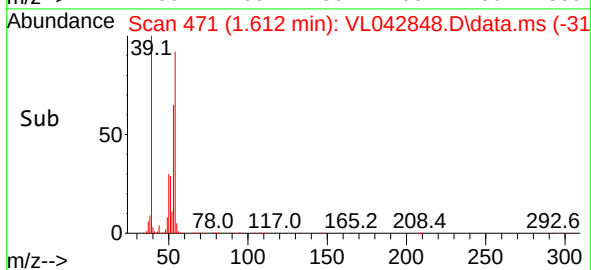
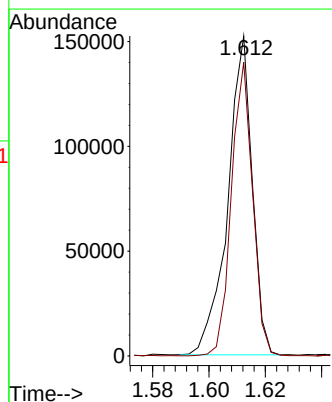
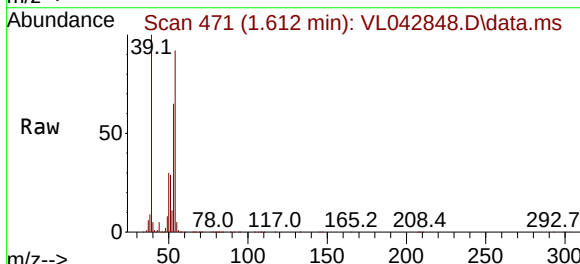
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

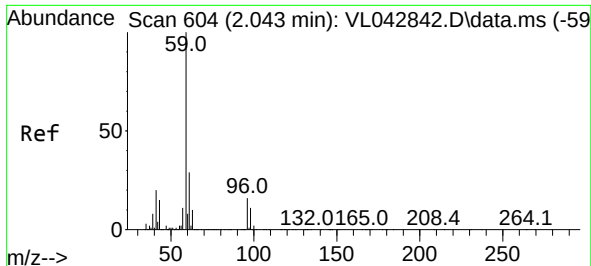
Tgt Ion: 43 Resp: 184116
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6



#16
1,3-Butadiene
Concen: 12.577 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 39 Resp: 92068
Ion Ratio Lower Upper
39 100
54 79.7 63.6 95.4





#17

tert-Butyl alcohol

Concen: 12.765 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_1

ClientSampleId :

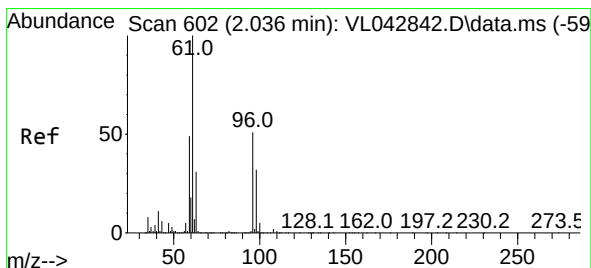
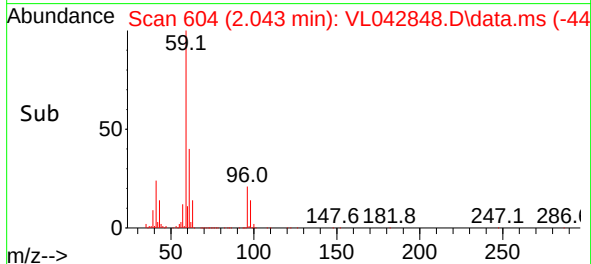
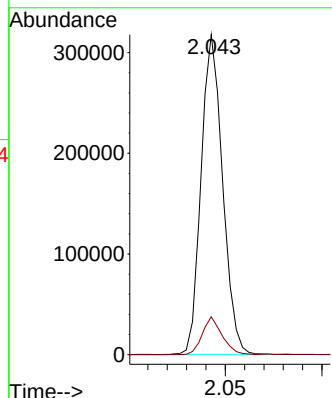
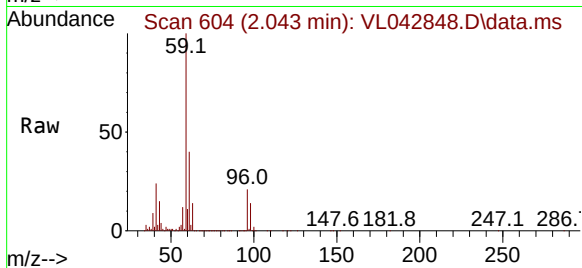
VSTDIC015

Tgt Ion: 59 Resp: 244441

Ion Ratio Lower Upper

59 100

57 11.3 9.0 13.4



#18

1,1-Dichloroethene

Concen: 13.961 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

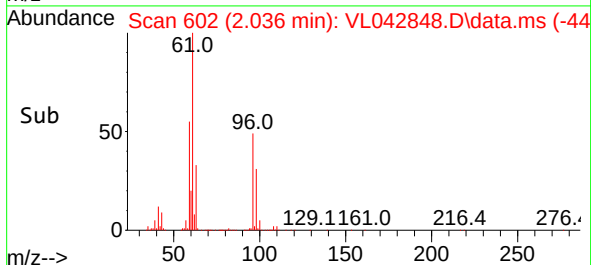
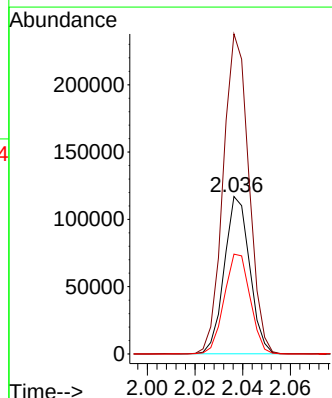
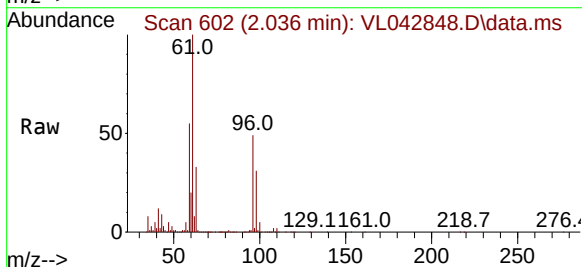
Tgt Ion: 96 Resp: 86349

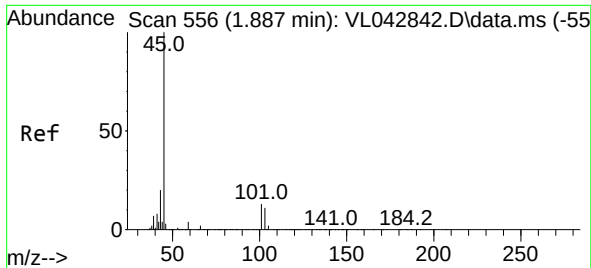
Ion Ratio Lower Upper

96 100

61 203.3 158.2 237.4

98 63.3 50.6 76.0

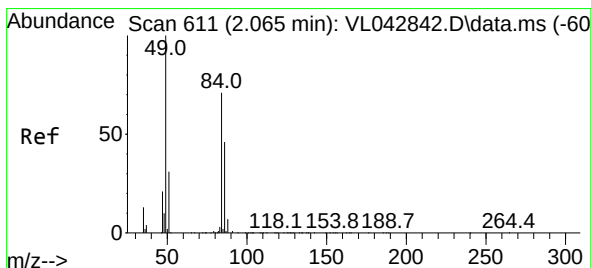
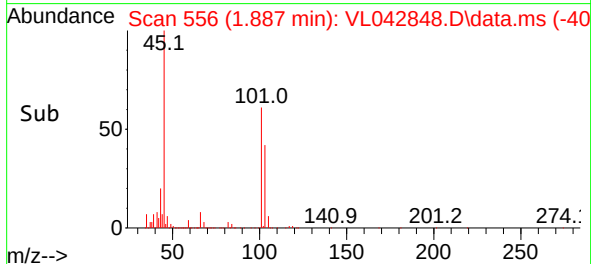
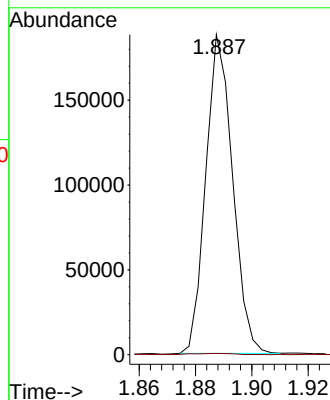
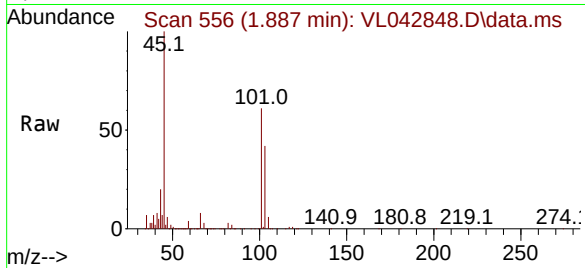




#19
Isopropyl Alcohol
Concen: 12.885 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

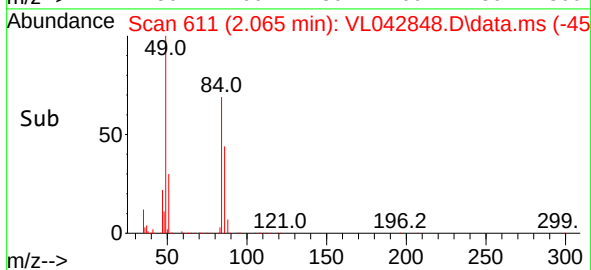
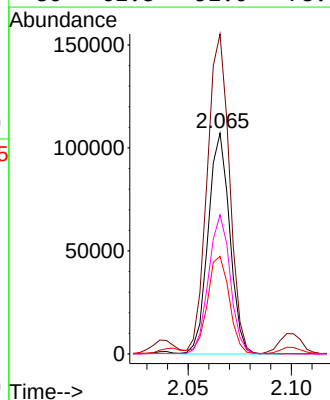
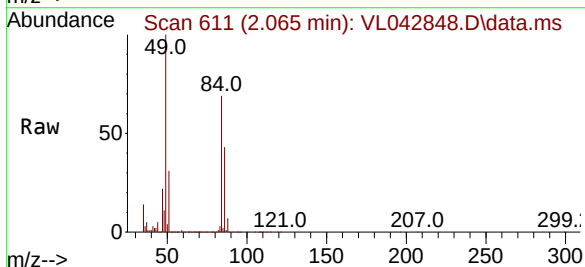
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

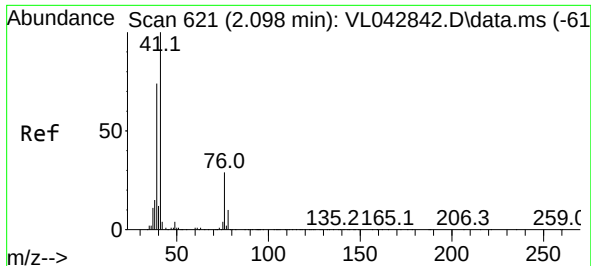
Tgt Ion: 45 Resp: 124270
Ion Ratio Lower Upper
45 100
58 41.3 32.7 49.1



#20
Methylene Chloride
Concen: 11.494 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 84 Resp: 77749
Ion Ratio Lower Upper
84 100
49 143.1 112.3 168.5
51 42.5 36.0 54.0
86 62.8 52.0 78.0

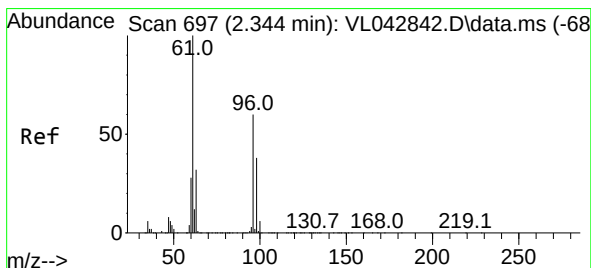
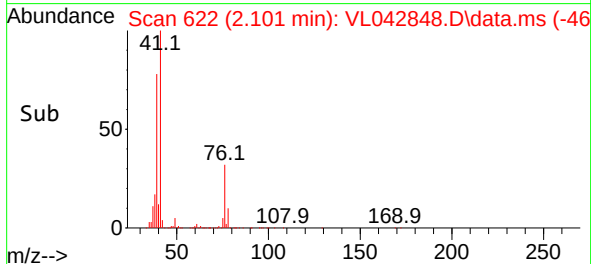
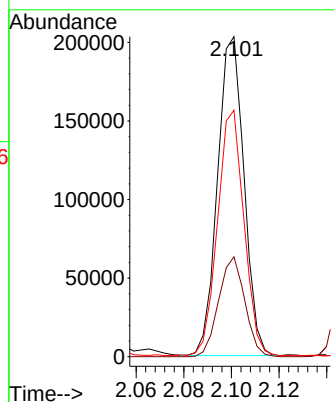
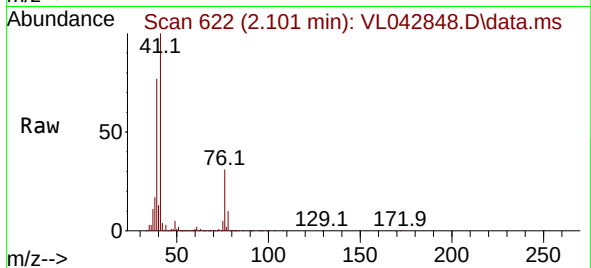




#21
 Allyl Chloride
 Concen: 13.703 ppbv
 RT: 2.101 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

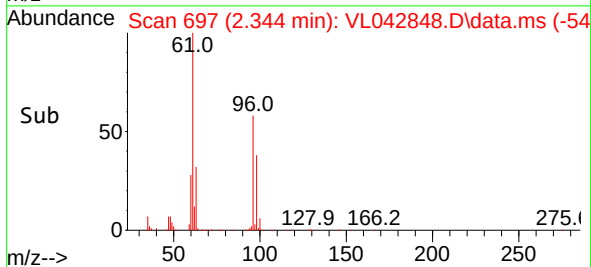
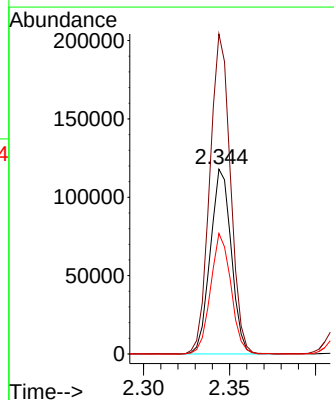
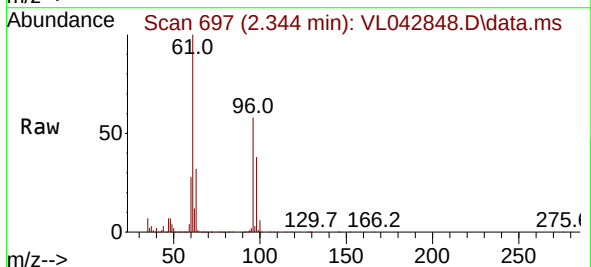
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

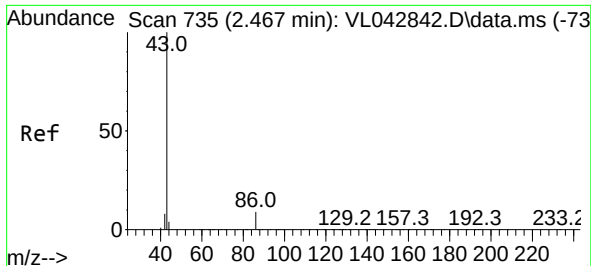
Tgt Ion: 41 Resp: 156318
 Ion Ratio Lower Upper
 41 100
 76 30.9 23.9 35.9
 39 76.9 57.8 86.6



#22
 trans-1,2-Dichloroethene
 Concen: 14.465 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 96 Resp: 100064
 Ion Ratio Lower Upper
 96 100
 61 173.1 132.6 199.0
 98 65.2 50.0 75.0



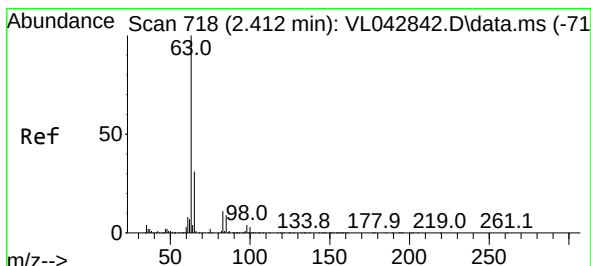
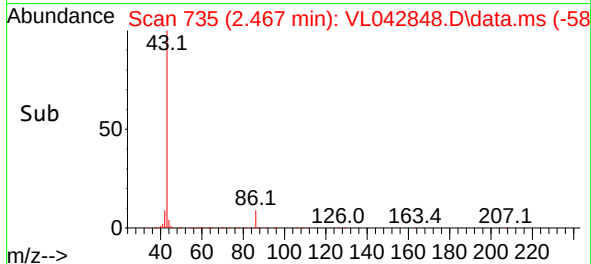
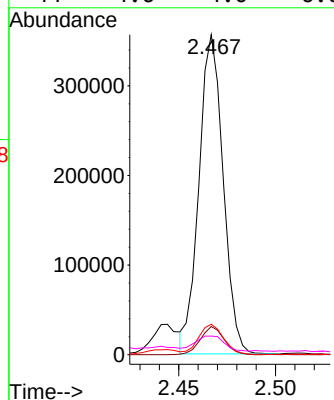
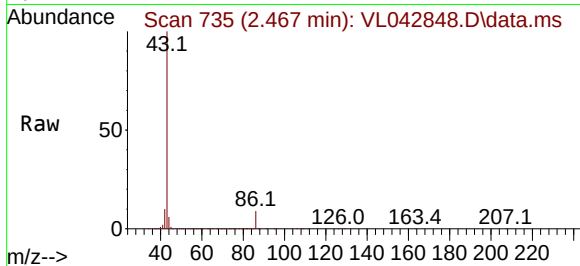


#23
 Vinyl Acetate
 Concen: 14.557 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

Tgt Ion: 43 Resp: 309236

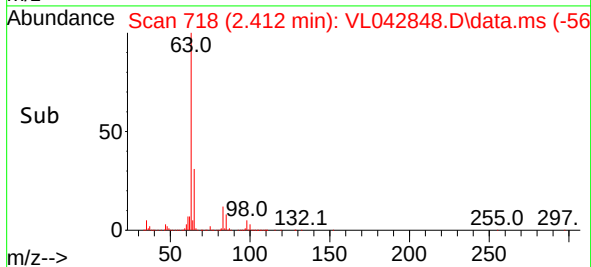
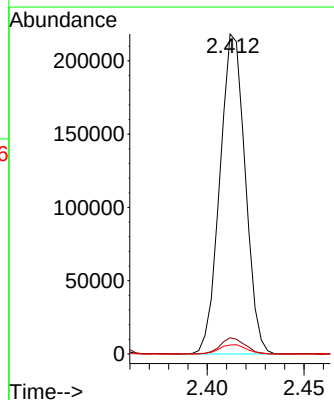
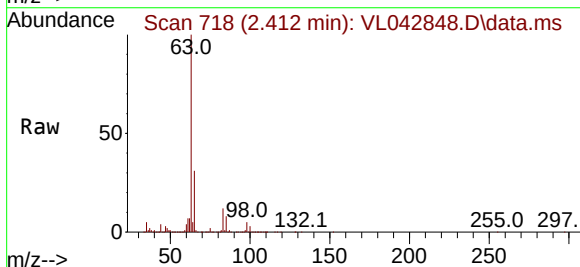
Ion	Ratio	Lower	Upper
43	100		
86	8.8	6.6	9.8
42	9.4	7.0	10.6
44	4.6	4.0	6.0

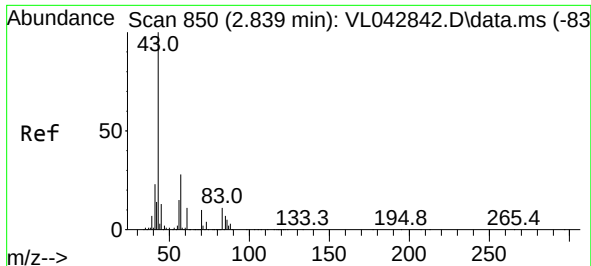


#24
 1,1-Dichloroethane
 Concen: 13.944 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 63 Resp: 199276

Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.1	6.5
100	2.8	1.7	5.1





#25

Ethyl Acetate

Concen: 13.653 ppbv

RT: 2.839 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 533600

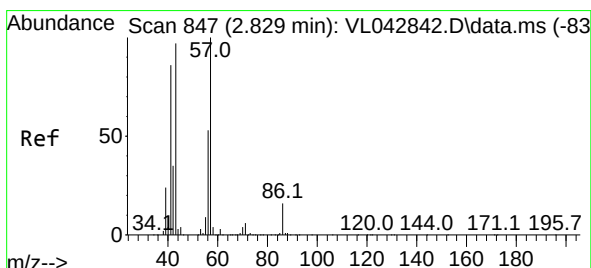
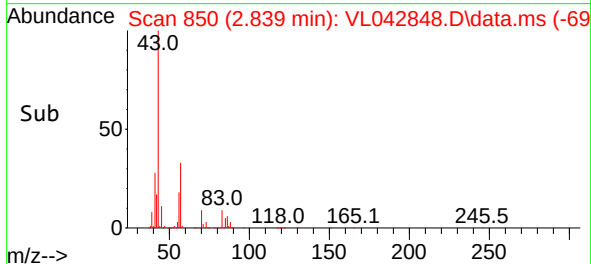
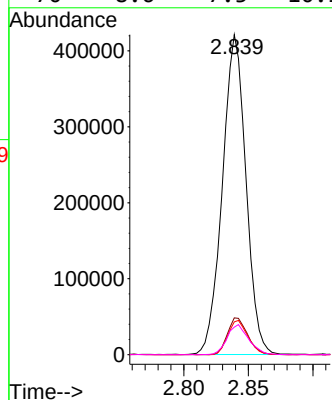
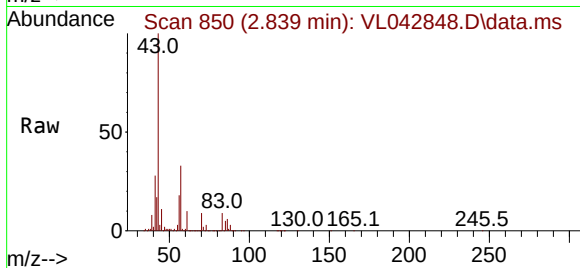
Ion Ratio Lower Upper

43 100

45 10.0 8.1 12.1

61 9.2 7.4 11.2

70 8.6 7.3 10.9



#26

Hexane

Concen: 13.869 ppbv

RT: 2.833 min Scan# 848

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Tgt Ion: 57 Resp: 250189

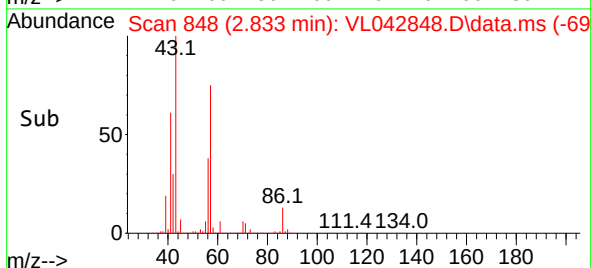
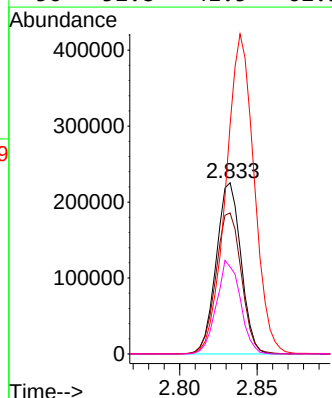
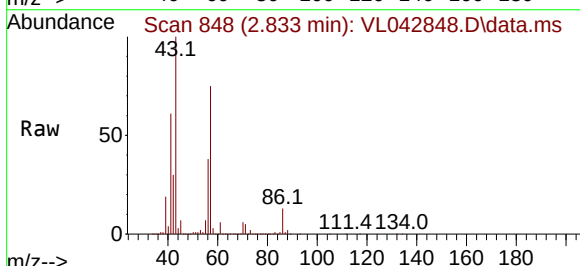
Ion Ratio Lower Upper

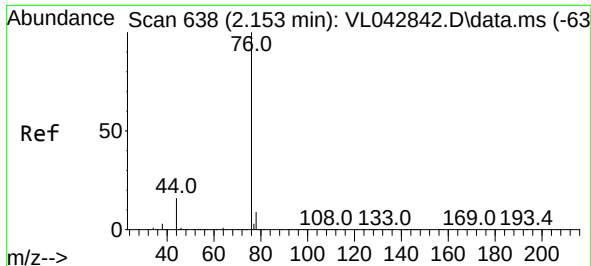
57 100

41 85.8 68.6 103.0

43 214.3 168.5 252.7

56 52.8 41.5 62.3

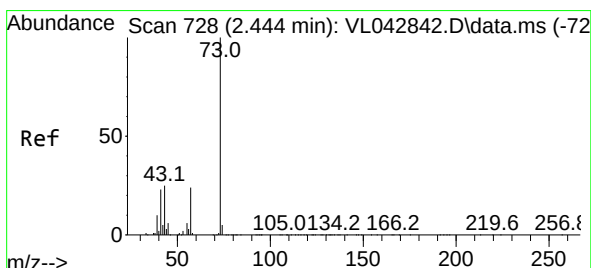
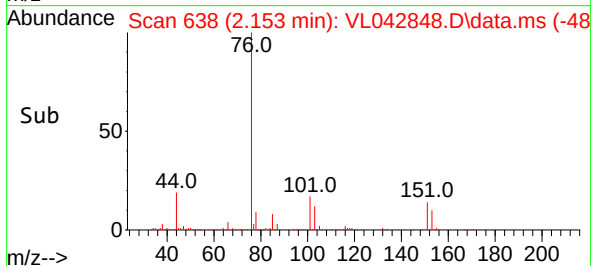
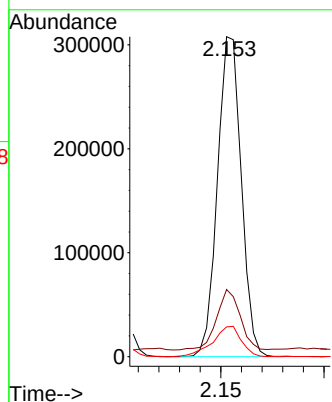
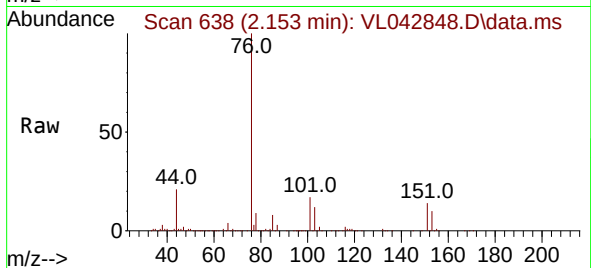




#27
Carbon Disulfide
Concen: 14.062 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

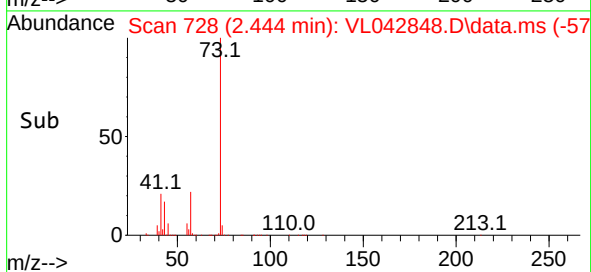
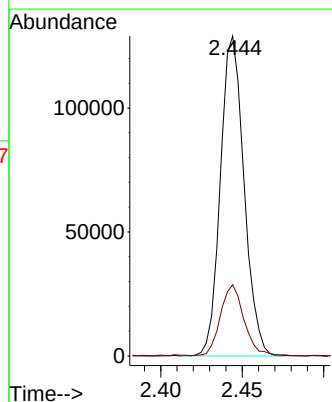
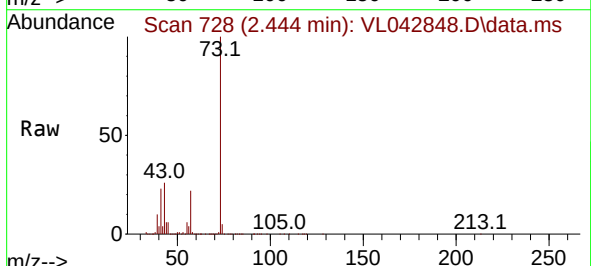
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

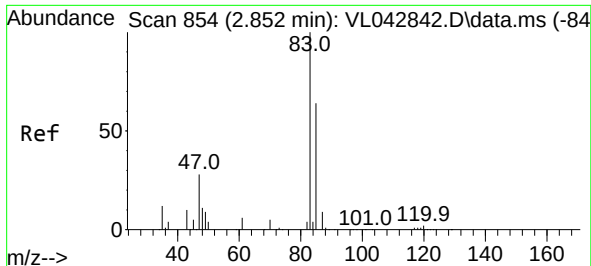
Tgt Ion: 76 Resp: 246868
Ion Ratio Lower Upper
76 100
44 19.7 15.9 23.9
78 11.4 9.5 14.3



#28
Methyl tert-Butyl Ether
Concen: 14.131 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 73 Resp: 129978
Ion Ratio Lower Upper
73 100
57 22.5 21.6 32.4





#29

Chloroform

Concen: 14.003 ppbv

RT: 2.855 min Scan# 85

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

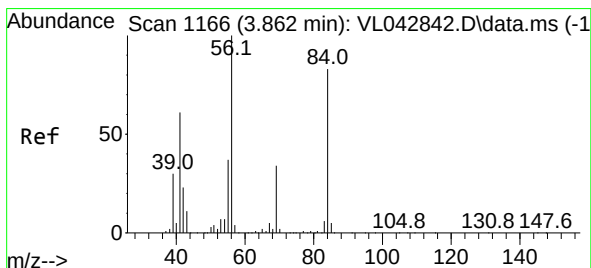
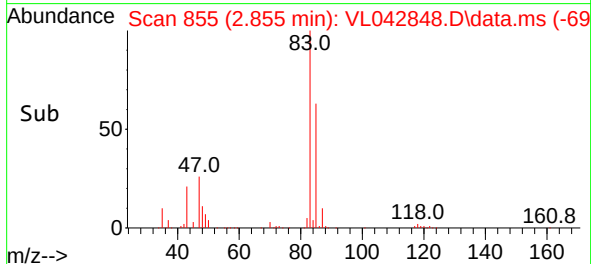
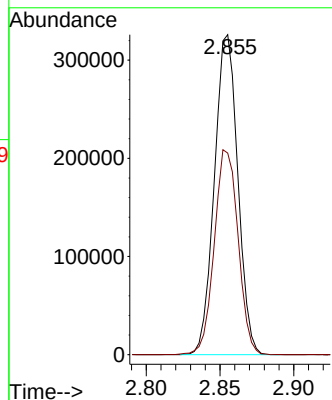
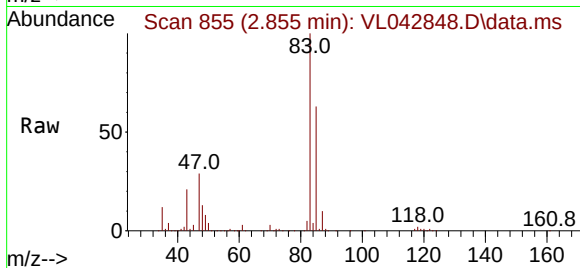
VSTDIC015

Tgt Ion: 83 Resp: 360661

Ion Ratio Lower Upper

83 100

85 63.0 51.1 76.7



#30

Cyclohexane

Concen: 14.088 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

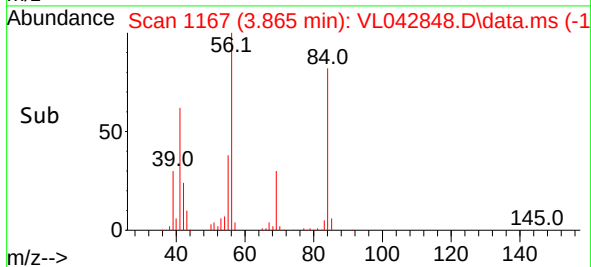
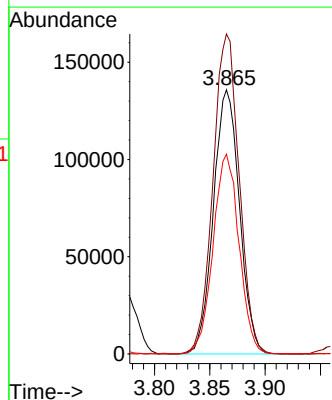
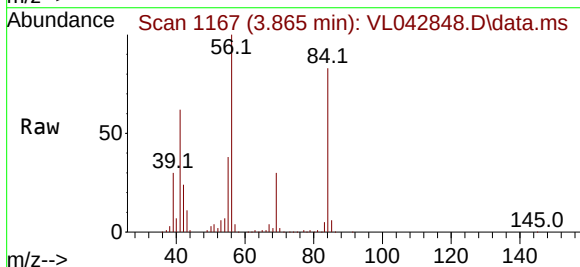
Tgt Ion: 84 Resp: 222820

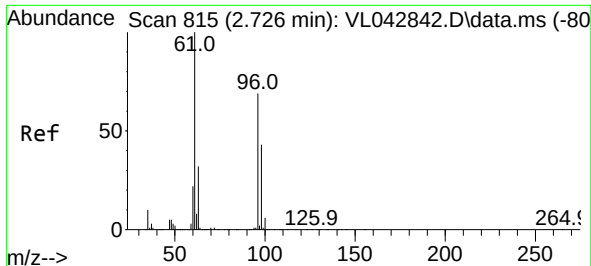
Ion Ratio Lower Upper

84 100

56 121.5 98.8 148.2

41 75.1 61.3 91.9

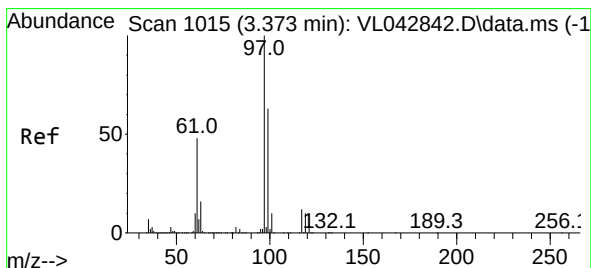
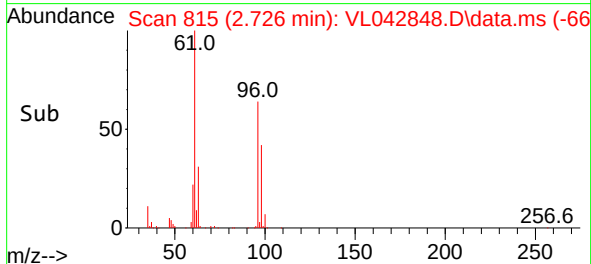
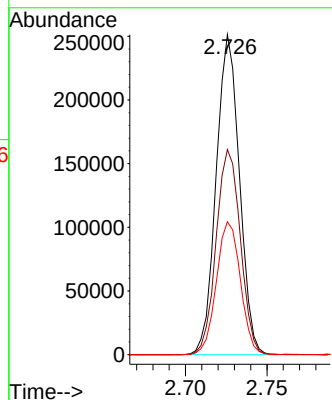
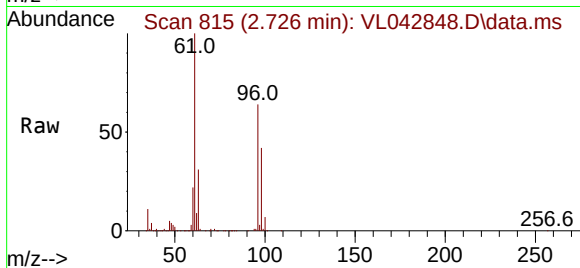




#31
 cis-1,2-Dichloroethene
 Concen: 13.821 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

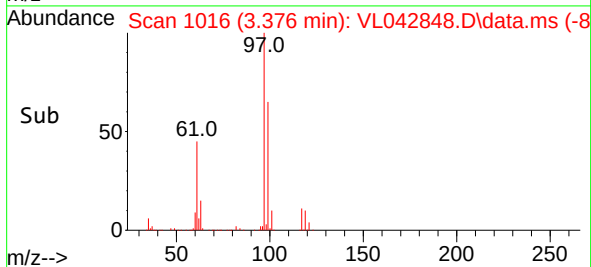
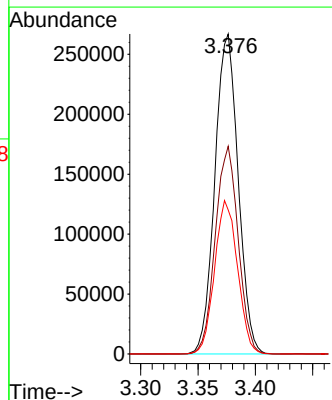
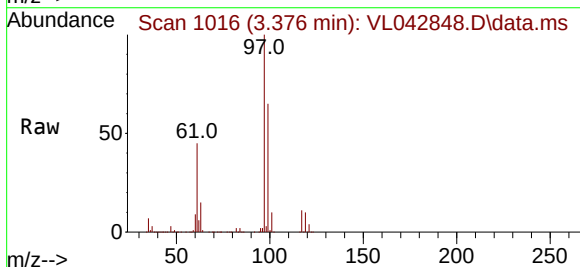
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

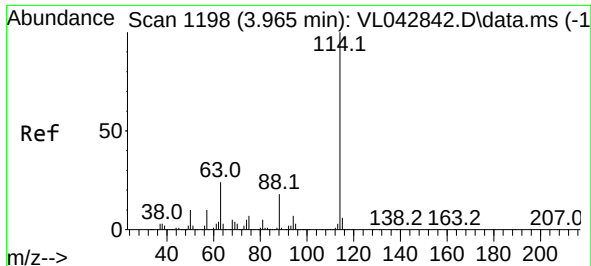
Tgt Ion: 61 Resp: 249376
 Ion Ratio Lower Upper
 61 100
 96 64.1 55.0 82.6
 98 41.6 34.3 51.5



#32
 1,1,1-Trichloroethane
 Concen: 13.851 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 97 Resp: 377739
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.6
 61 47.2 38.0 57.0

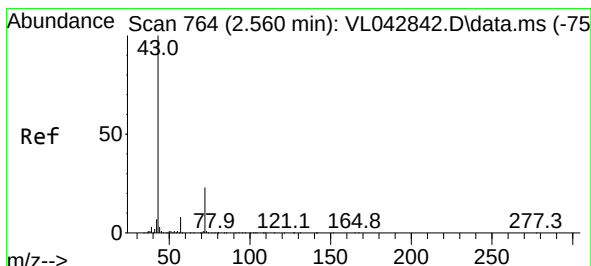
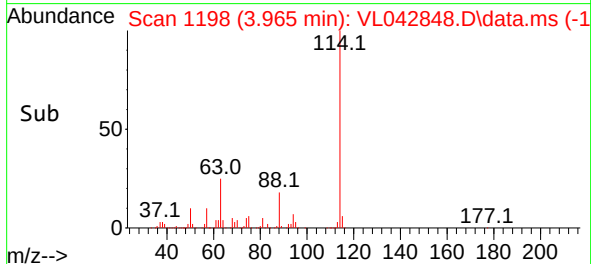
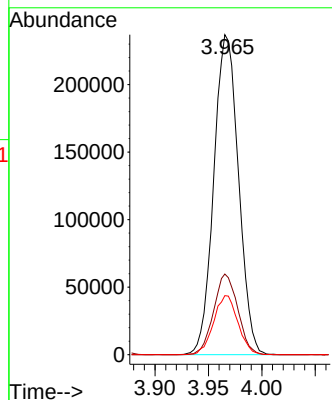
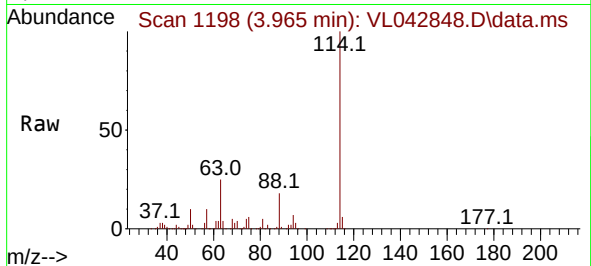




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

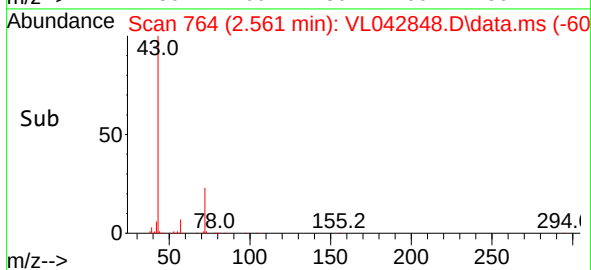
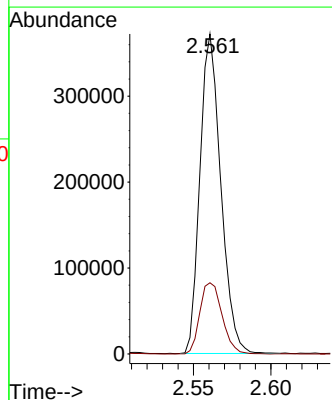
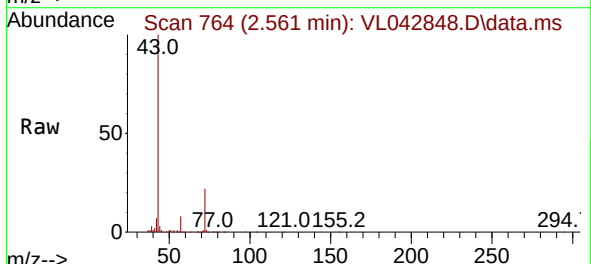
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

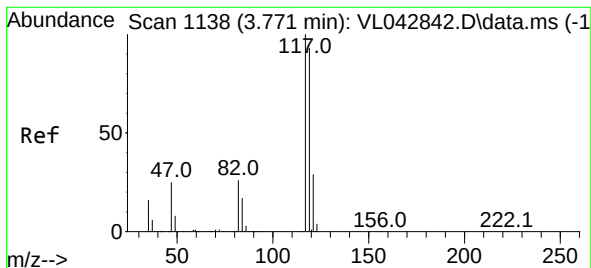
Tgt Ion:114 Resp: 380877
 Ion Ratio Lower Upper
 114 100
 63 24.6 19.7 29.5
 88 18.1 14.4 21.6



#34
 2-Butanone
 Concen: 13.563 ppbv
 RT: 2.561 min Scan# 764
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 43 Resp: 348815
 Ion Ratio Lower Upper
 43 100
 72 23.8 18.6 28.0





#35

Carbon Tetrachloride

Concen: 13.990 ppbv

RT: 3.771 min Scan# 1138

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

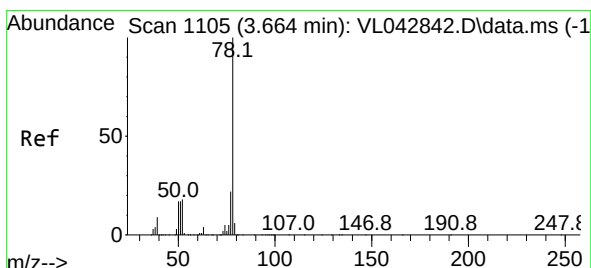
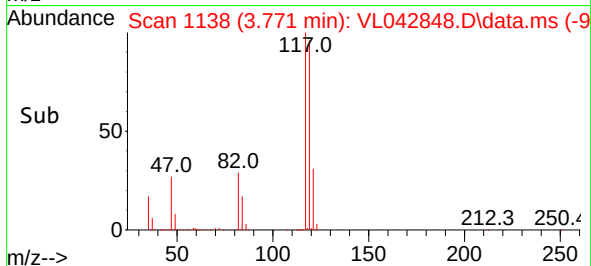
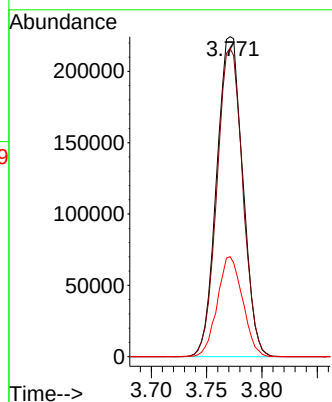
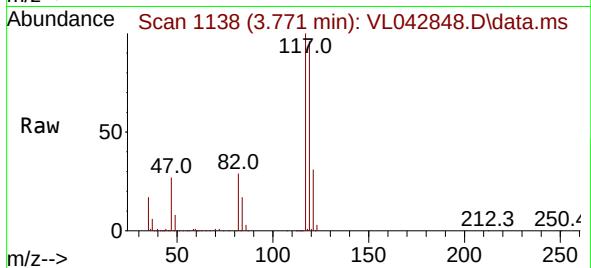
Tgt Ion:117 Resp: 367354

Ion Ratio Lower Upper

117 100

119 96.3 74.7 112.1

121 31.2 23.2 34.8



#36

Benzene

Concen: 14.033 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

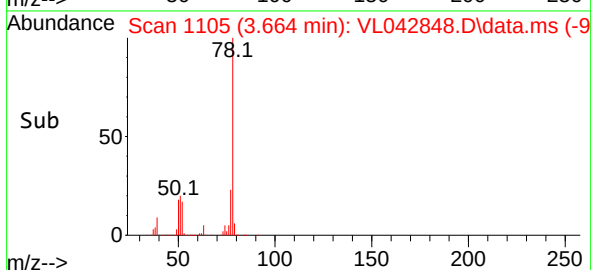
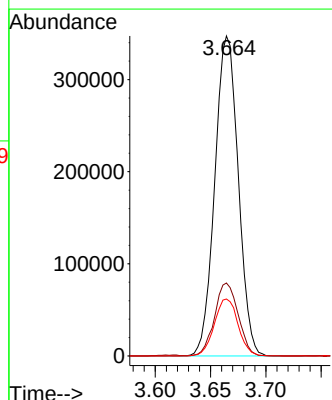
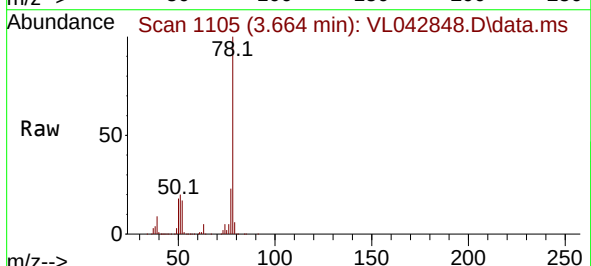
Tgt Ion: 78 Resp: 511811

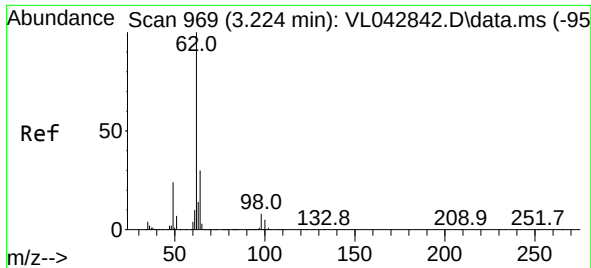
Ion Ratio Lower Upper

78 100

77 22.8 17.7 26.5

50 17.8 13.9 20.9





#37

1,2-Dichloroethane

Concen: 14.639 ppbv

RT: 3.224 min Scan# 969

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

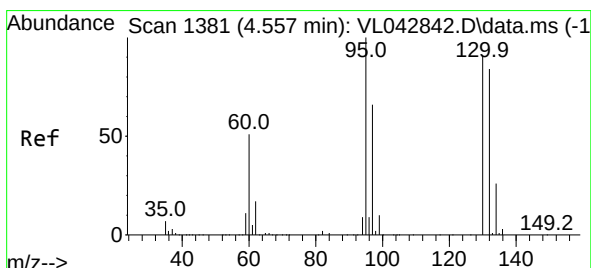
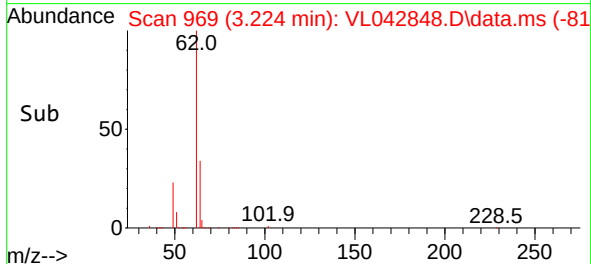
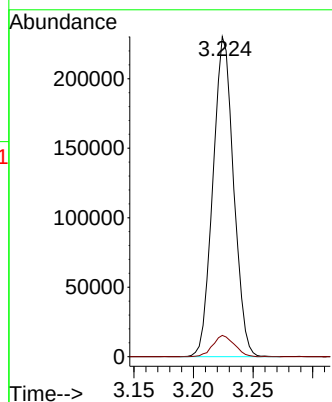
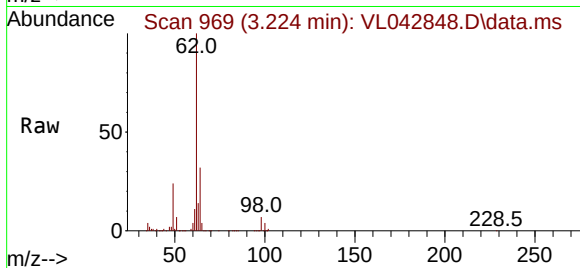
VSTDIC015

Tgt Ion: 62 Resp: 278934

Ion Ratio Lower Upper

62 100

98 6.9 5.9 8.9



#38

Trichloroethene

Concen: 13.634 ppbv

RT: 4.558 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Tgt Ion:130 Resp: 227091

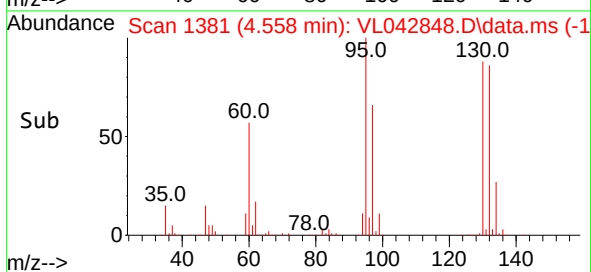
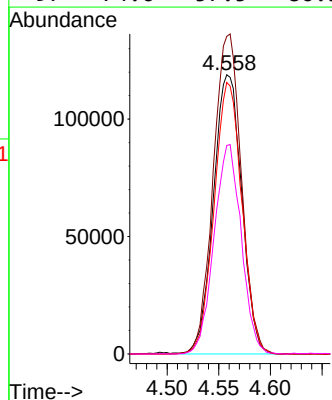
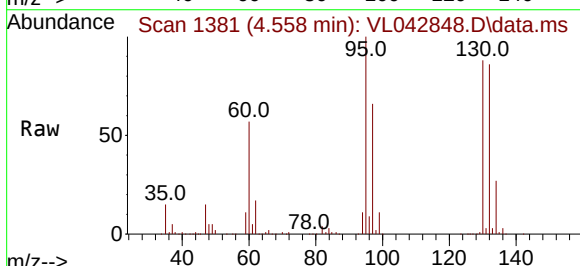
Ion Ratio Lower Upper

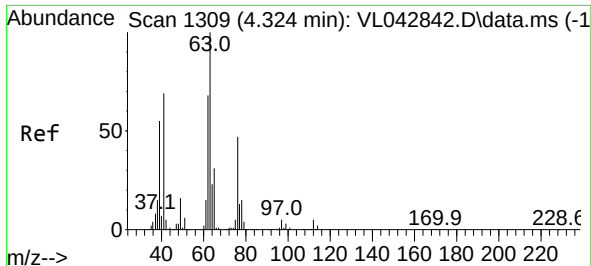
130 100

95 113.8 87.6 131.4

132 97.3 73.8 110.8

97 74.6 57.5 86.3





#39

1,2-Dichloropropane

Concen: 13.984 ppbv

RT: 4.325 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

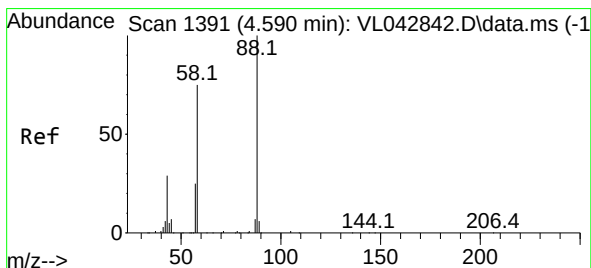
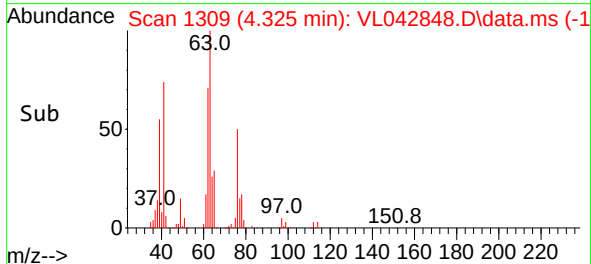
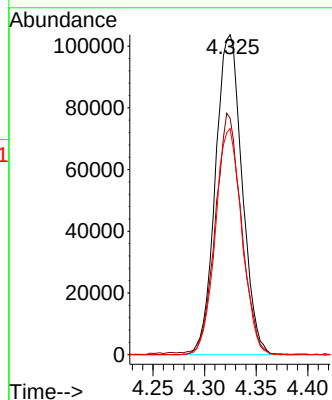
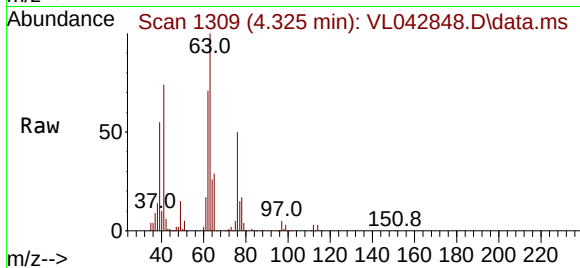
Tgt Ion: 63 Resp: 186277

Ion Ratio Lower Upper

63 100

41 73.5 55.0 82.4

62 70.6 54.4 81.6



#40

1,4-Dioxane

Concen: 13.212 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Tgt Ion: 88 Resp: 82385

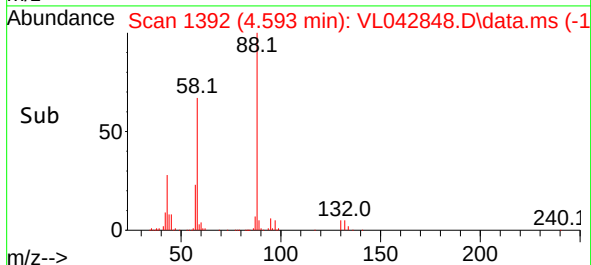
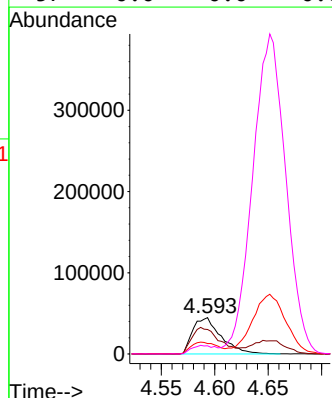
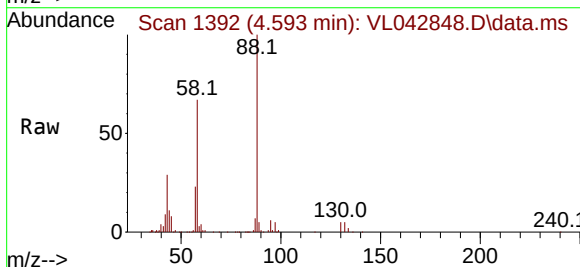
Ion Ratio Lower Upper

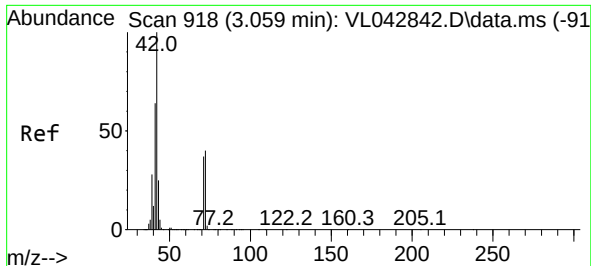
88 100

58 73.5 53.8 80.6

43 33.9 22.8 34.2

57 0.0 0.0 0.0

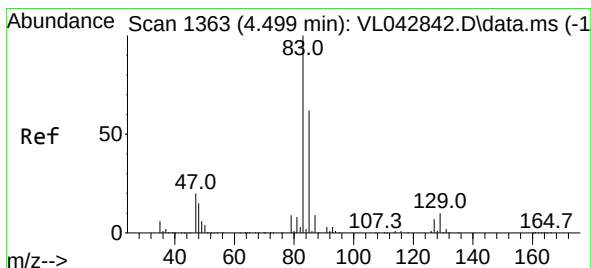
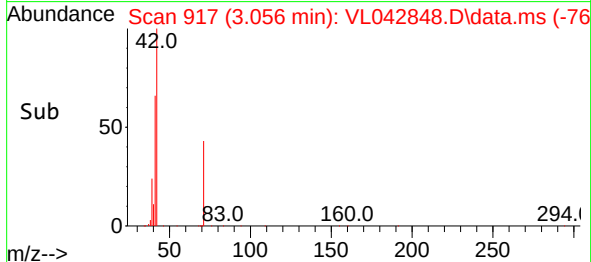
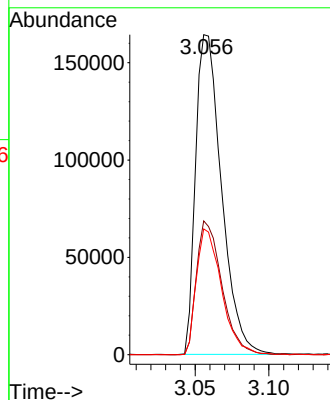
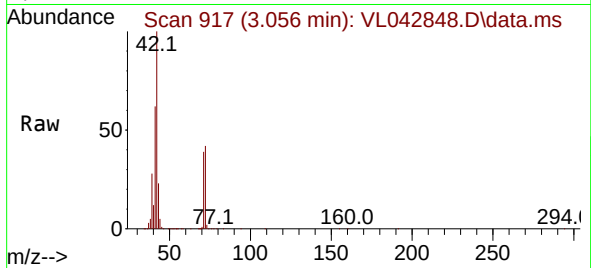




#41
Tetrahydrofuran
Concen: 14.001 ppbv
RT: 3.056 min Scan# 918
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

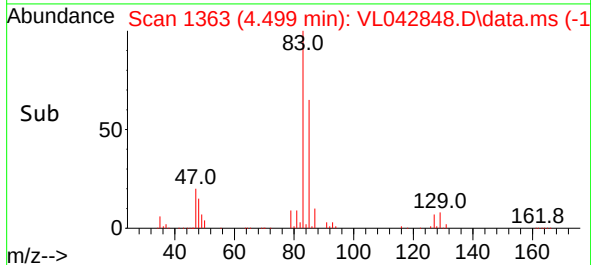
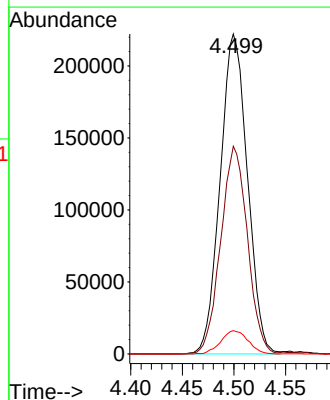
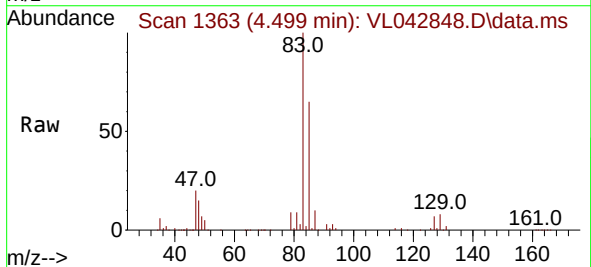
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

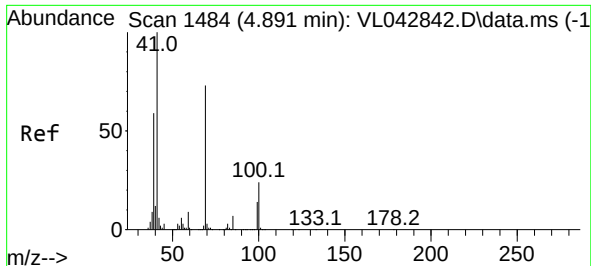
Tgt Ion: 42 Resp: 200751
Ion Ratio Lower Upper
42 100
72 41.0 32.6 48.8
71 38.4 30.0 45.0



#42
Bromodichloromethane
Concen: 14.372 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 83 Resp: 408089
Ion Ratio Lower Upper
83 100
85 64.9 49.8 74.8
127 7.3 5.8 8.6

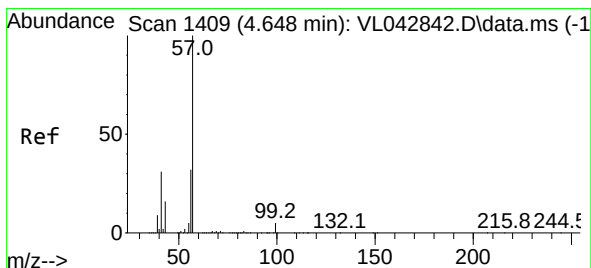
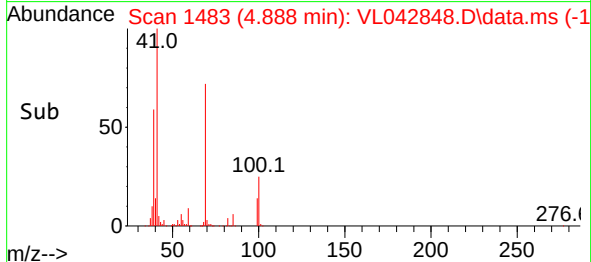
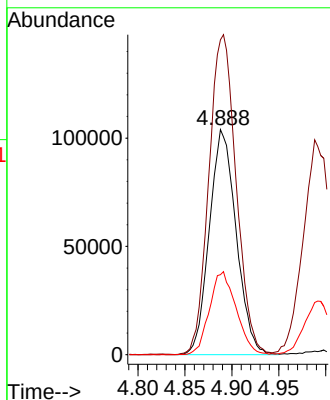
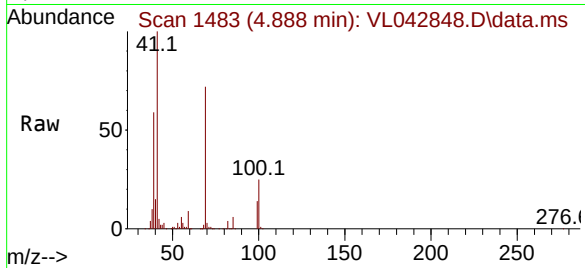




#43
Methyl Methacrylate
Concen: 13.808 ppbv
RT: 4.888 min Scan# 1410
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

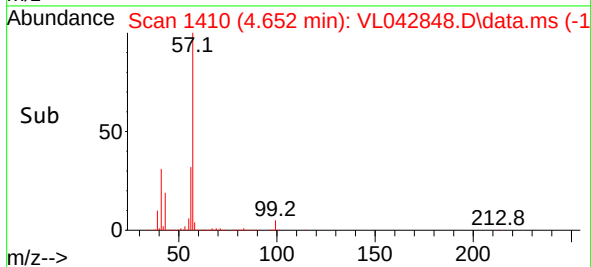
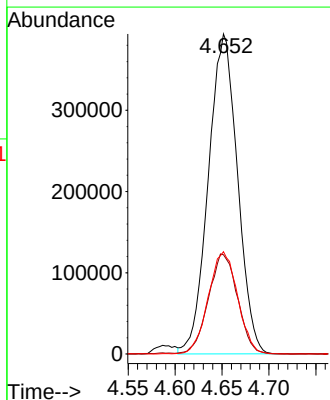
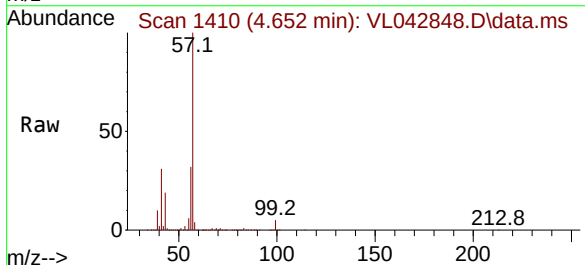
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

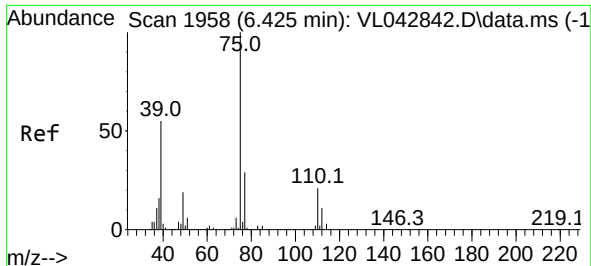
Tgt Ion: 69 Resp: 206590
Ion Ratio Lower Upper
69 100
41 144.8 114.6 172.0
100 36.8 30.2 45.4



#44
2,2,4-Trimethylpentane
Concen: 13.895 ppbv
RT: 4.652 min Scan# 1410
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 57 Resp: 850847
Ion Ratio Lower Upper
57 100
41 31.5 24.8 37.2
56 32.1 25.5 38.3

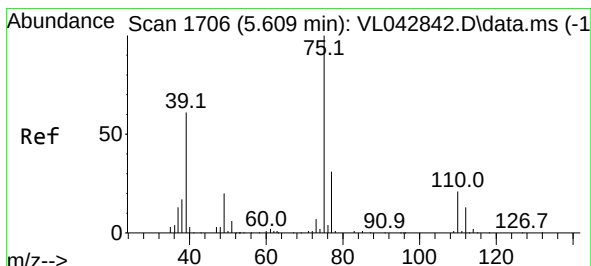
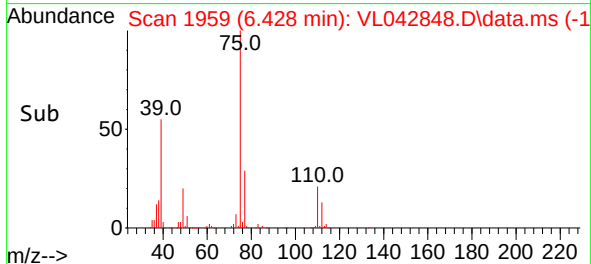
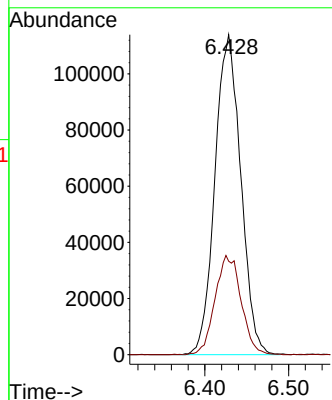
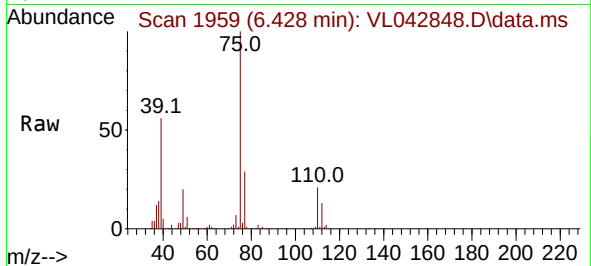




#45
t-1,3-Dichloropropene
Concen: 14.387 ppbv
RT: 6.428 min Scan# 1958
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

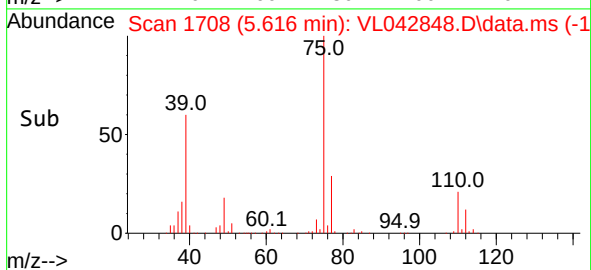
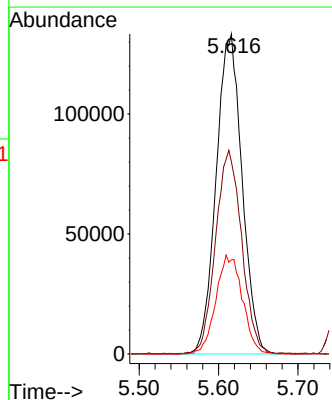
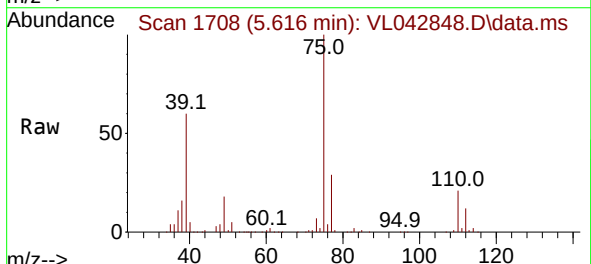
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

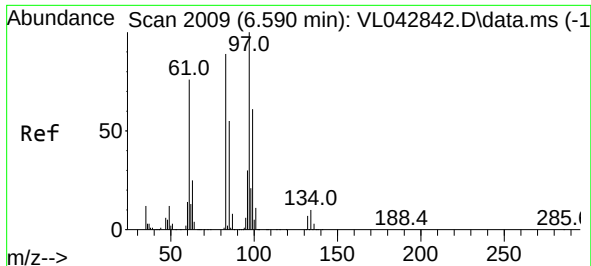
Tgt Ion: 75 Resp: 244117
Ion Ratio Lower Upper
75 100
77 29.2 23.8 35.6



#46
cis-1,3-Dichloropropene
Concen: 14.191 ppbv
RT: 5.616 min Scan# 1708
Delta R.T. 0.007 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 75 Resp: 302339
Ion Ratio Lower Upper
75 100
39 59.9 48.9 73.3
77 29.4 24.9 37.3

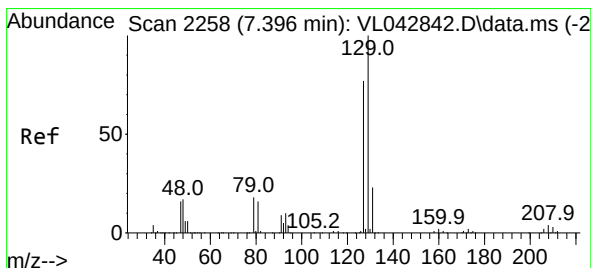
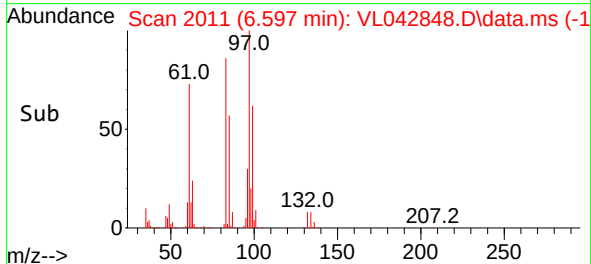
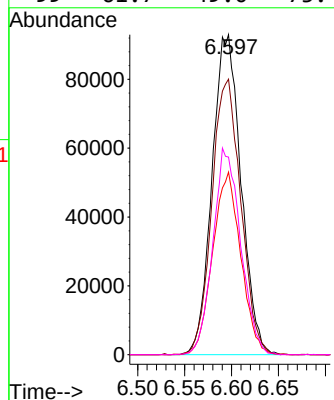
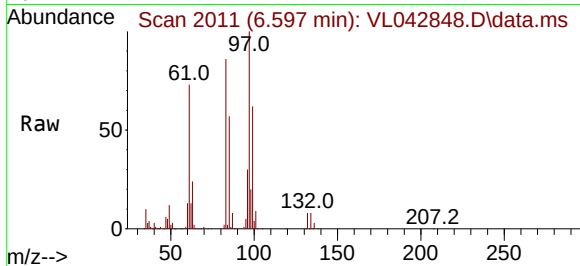




#47
 1,1,2-Trichloroethane
 Concen: 14.118 ppbv
 RT: 6.597 min Scan# 2009
 Delta R.T. 0.007 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

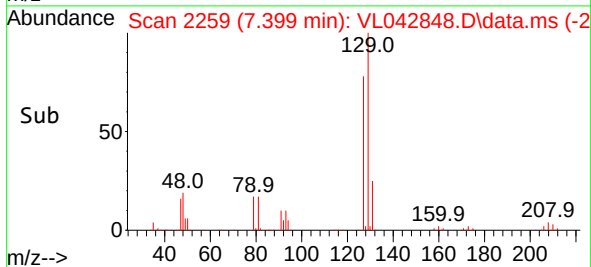
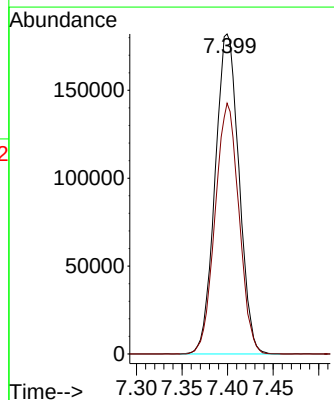
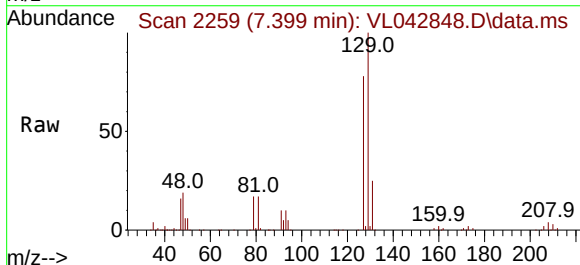
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

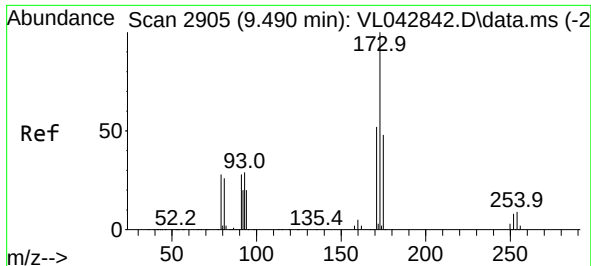
Tgt Ion: 97	Resp: 199067
Ion Ratio	Lower Upper
97 100	
83 86.0	71.0 106.4
85 57.0	43.6 65.4
99 61.7	49.0 73.4



#48
 Dibromochloromethane
 Concen: 14.535 ppbv
 RT: 7.399 min Scan# 2259
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion:129	Resp: 331947
Ion Ratio	Lower Upper
129 100	
127 78.4	39.4 118.2





#49

Bromoform

Concen: 14.162 ppbv

RT: 9.494 min Scan# 2905

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

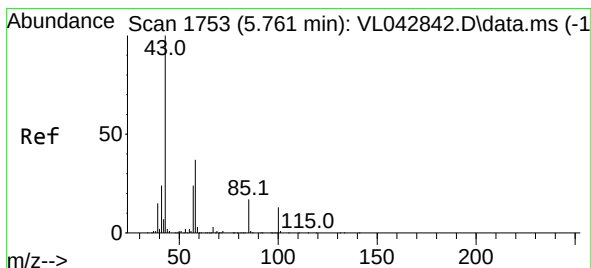
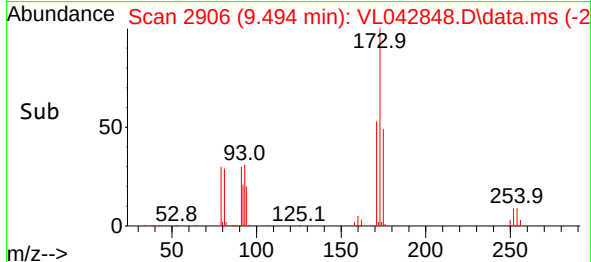
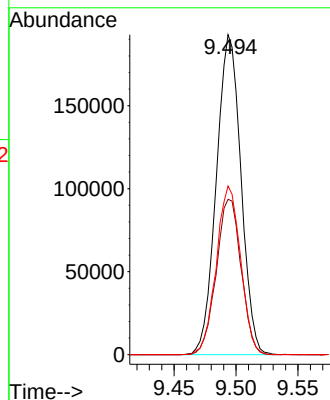
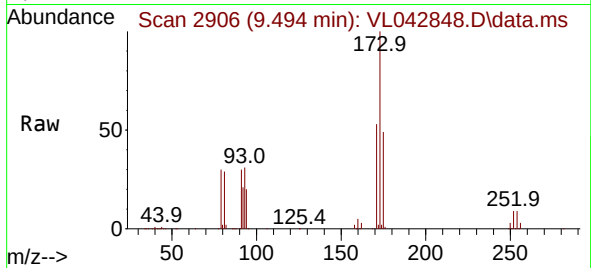
Tgt Ion:173 Resp: 266732

Ion Ratio Lower Upper

173 100

175 49.2 39.2 58.8

171 52.1 41.3 61.9



#50

4-Methyl-2-Pentanone

Concen: 14.073 ppbv

RT: 5.758 min Scan# 1752

Delta R.T. -0.003 min

Lab File: VL042848.D

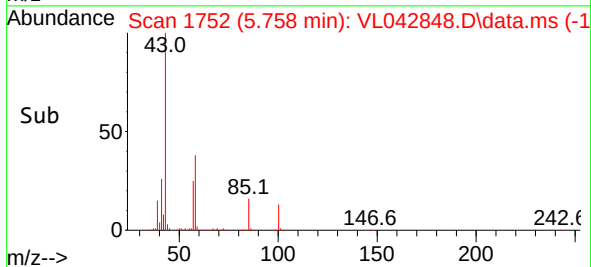
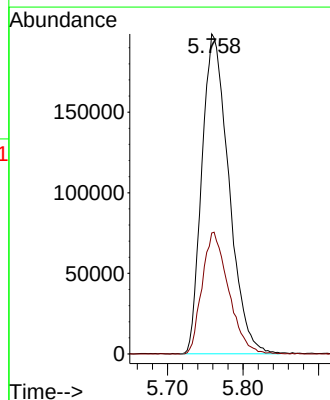
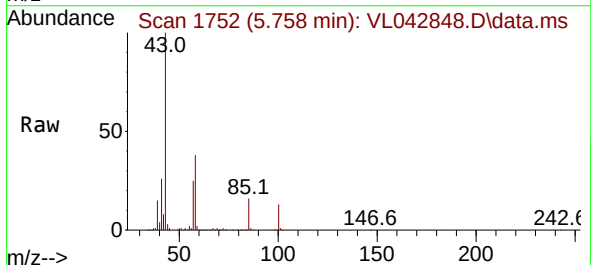
Acq: 13 Aug 2025 12:06

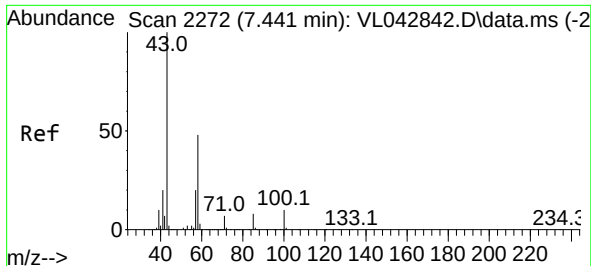
Tgt Ion: 43 Resp: 490917

Ion Ratio Lower Upper

43 100

58 37.5 29.8 44.8

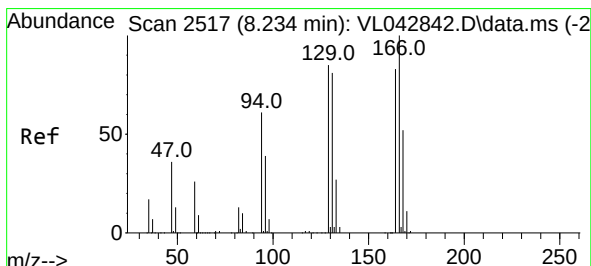
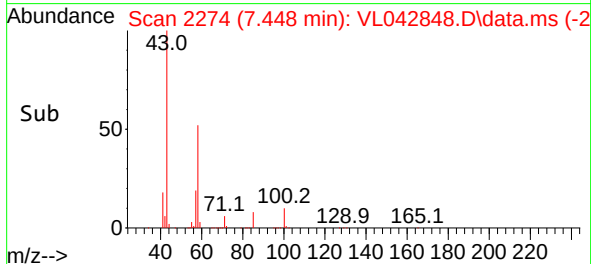
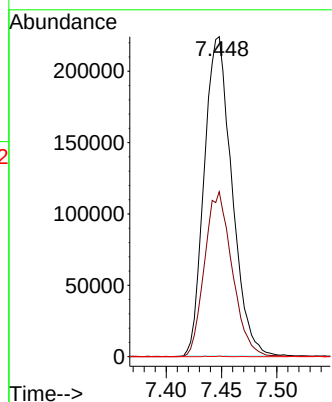
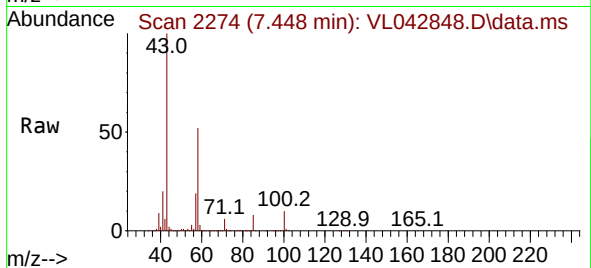




#51
2-Hexanone
Concen: 14.255 ppbv
RT: 7.448 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

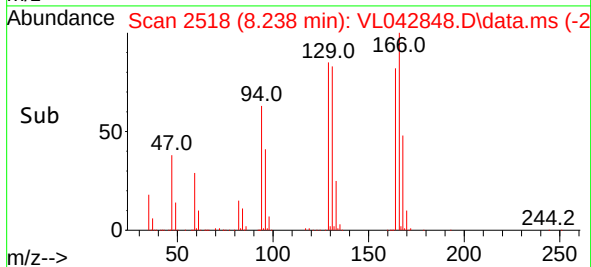
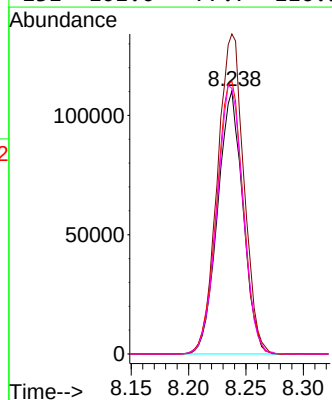
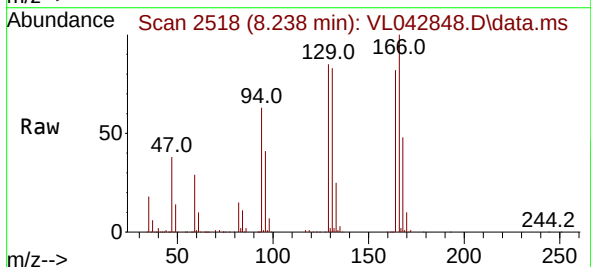
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

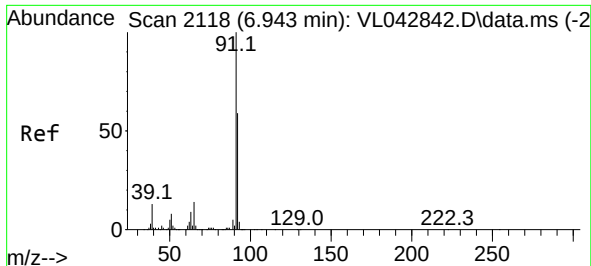
Tgt Ion: 43 Resp: 389940
Ion Ratio Lower Upper
43 100
58 51.6 41.0 61.6
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 12.772 ppbv
RT: 8.238 min Scan# 2518
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:164 Resp: 168712
Ion Ratio Lower Upper
164 100
166 121.7 96.5 144.7
129 103.7 81.8 122.6
131 101.0 77.7 116.5

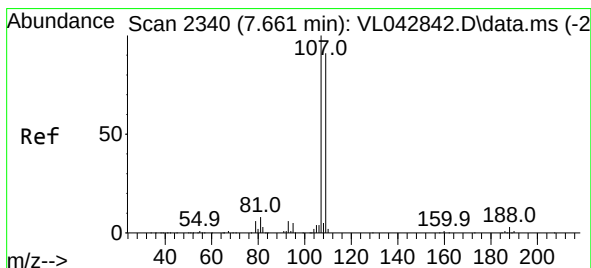
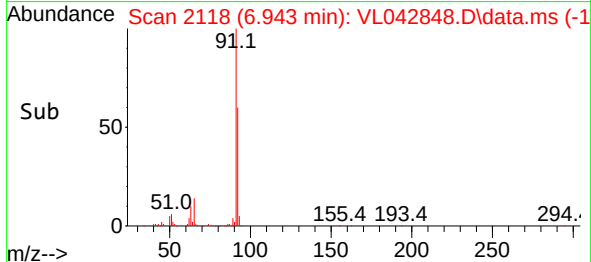
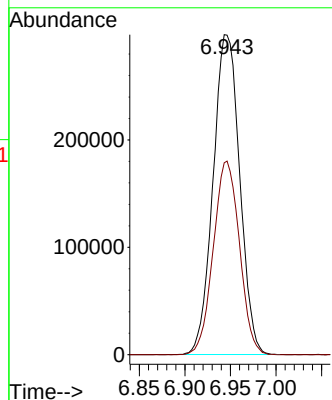
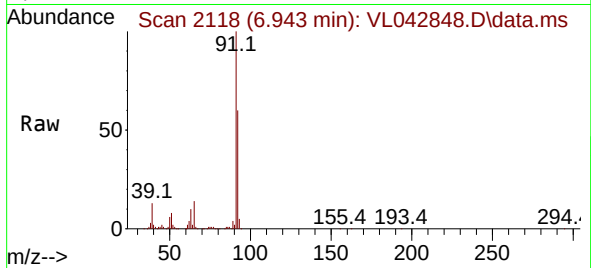




#53
Toluene
Concen: 13.961 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

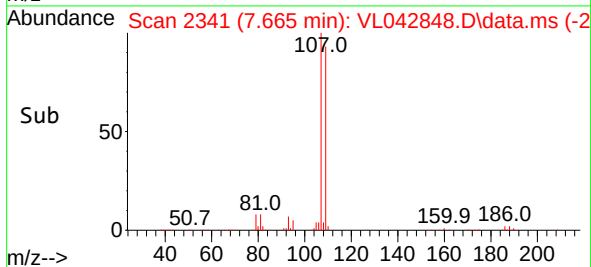
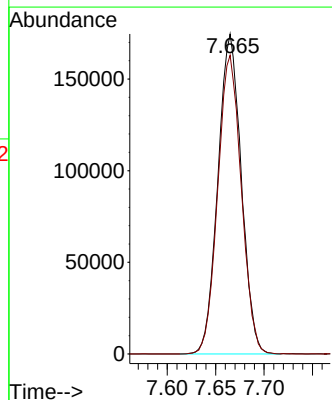
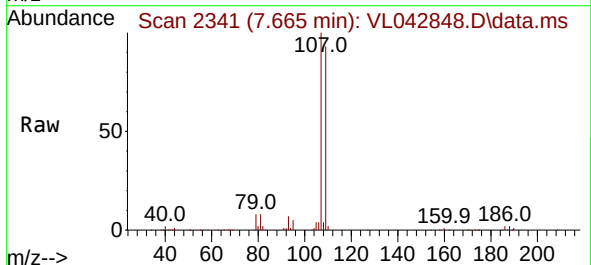
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

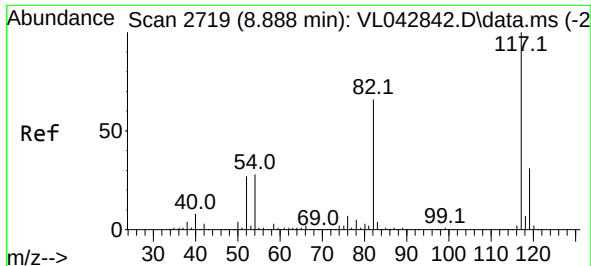
Tgt Ion: 91 Resp: 605941
Ion Ratio Lower Upper
91 100
92 59.4 47.8 71.6



#54
1,2-Dibromoethane
Concen: 14.173 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 107 Resp: 292327
Ion Ratio Lower Upper
107 100
109 93.4 72.5 108.7

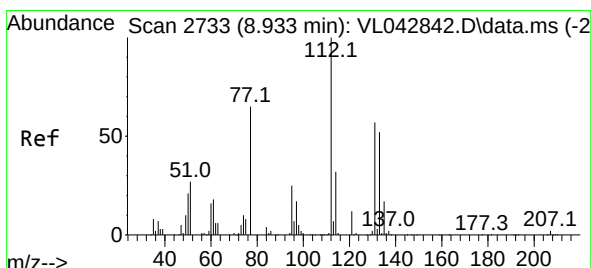
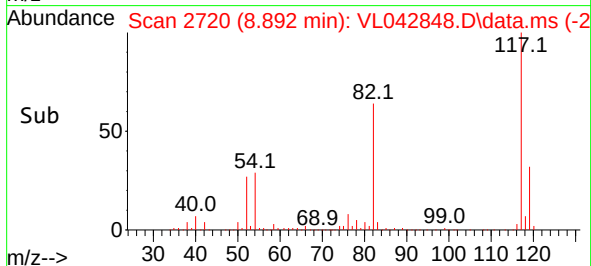
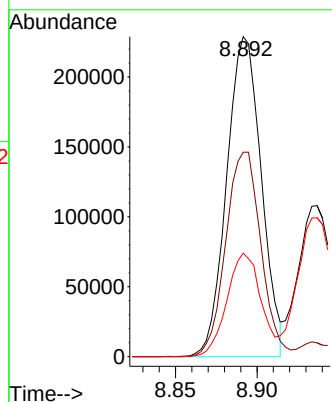
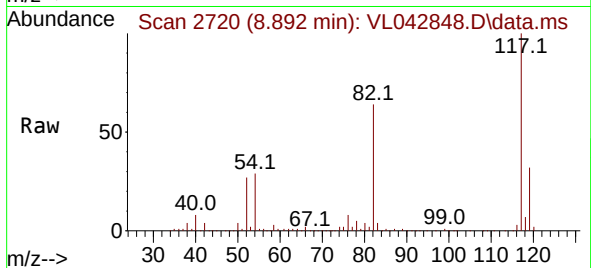




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

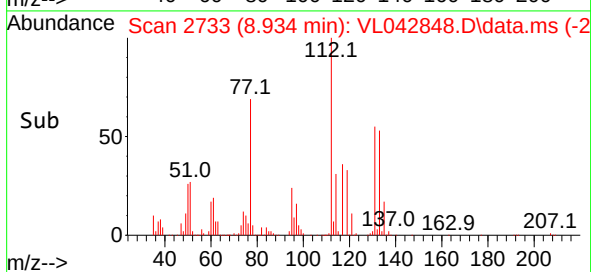
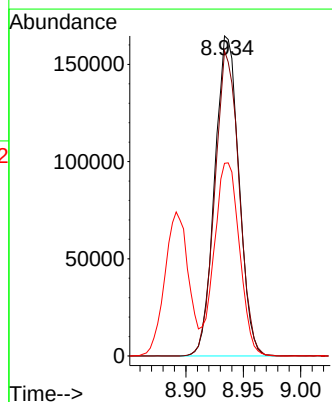
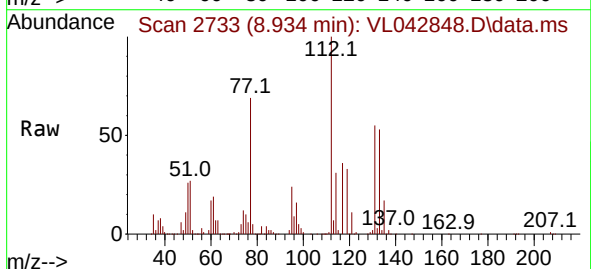
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

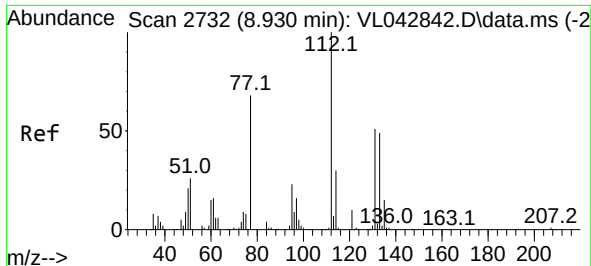
Tgt Ion:117 Resp: 337876
Ion Ratio Lower Upper
117 100
82 65.3 54.6 81.8
119 32.5 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 13.810 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:131 Resp: 241293
Ion Ratio Lower Upper
131 100
133 95.6 77.4 116.0
119 63.4 51.2 76.8

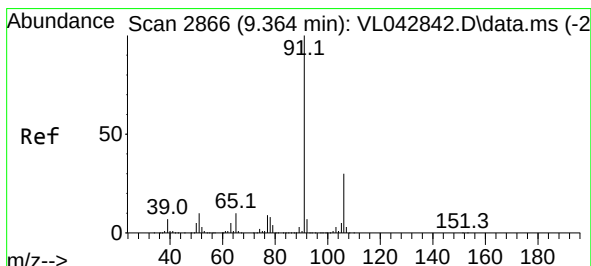
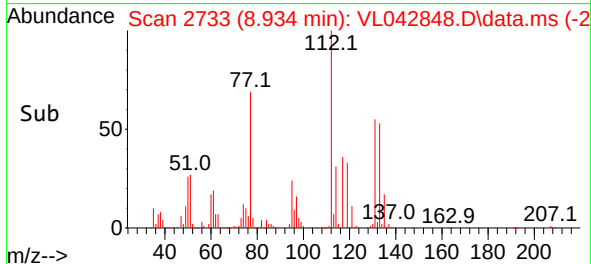
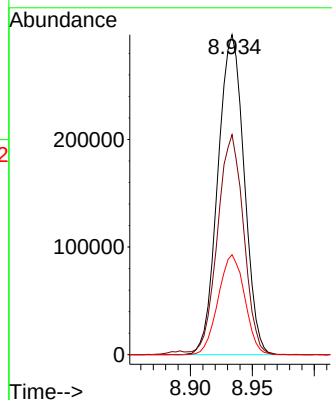
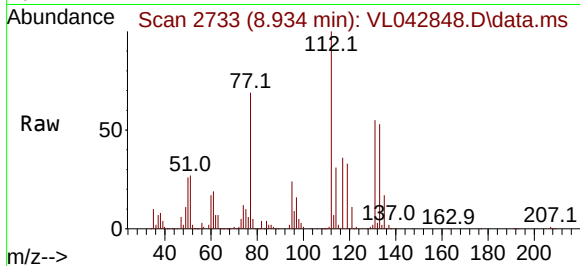




#57
Chlorobenzene
Concen: 13.668 ppbv
RT: 8.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

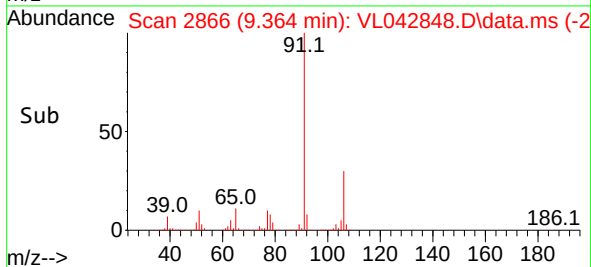
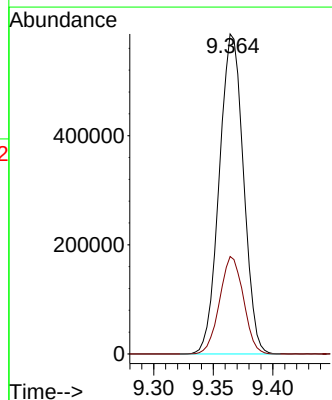
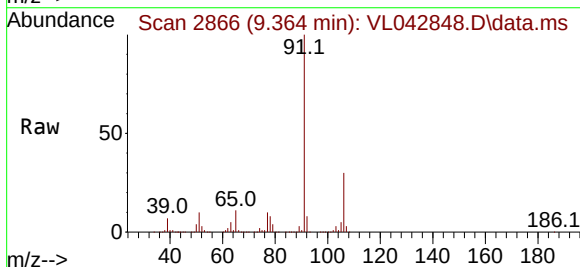
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

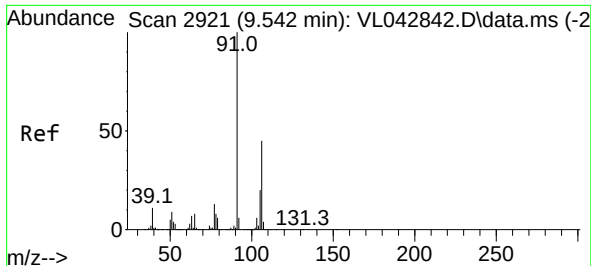
Tgt Ion:112 Resp: 439109
Ion Ratio Lower Upper
112 100
77 68.6 55.5 83.3
114 31.2 27.2 33.2



#58
Ethyl Benzene
Concen: 13.859 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 91 Resp: 826316
Ion Ratio Lower Upper
91 100
106 30.5 23.9 35.9





#59

m/p-Xylene

Concen: 14.262 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

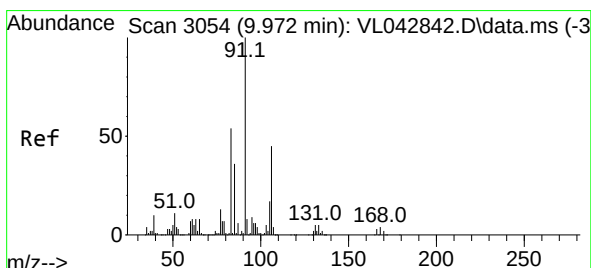
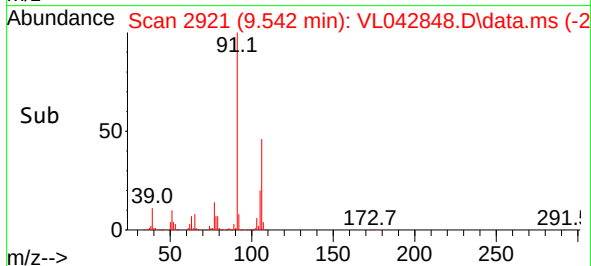
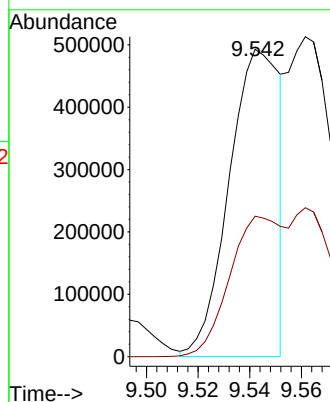
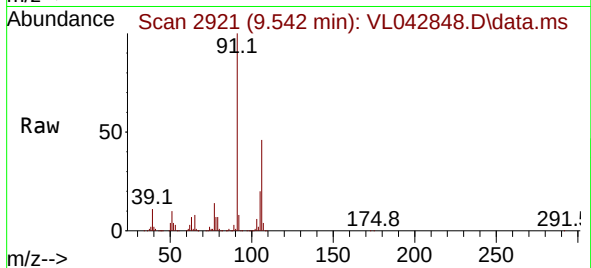
VSTDIC015

Tgt Ion: 91 Resp: 667628

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 13.389 ppbv

RT: 9.973 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VL042848.D

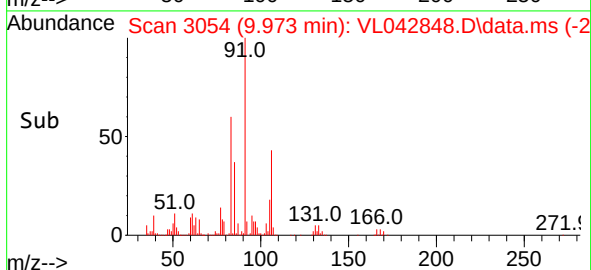
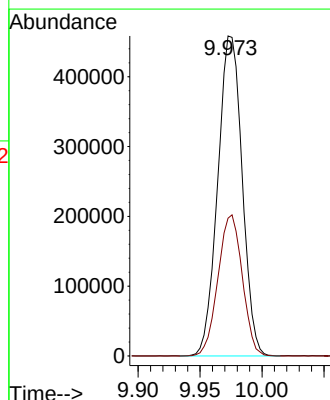
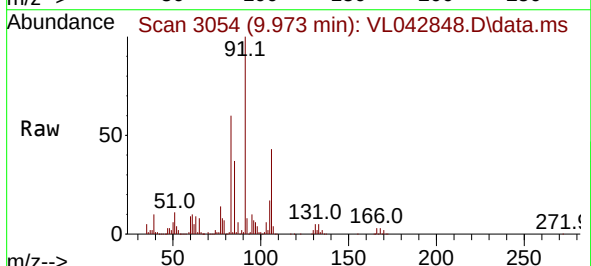
Acq: 13 Aug 2025 12:06

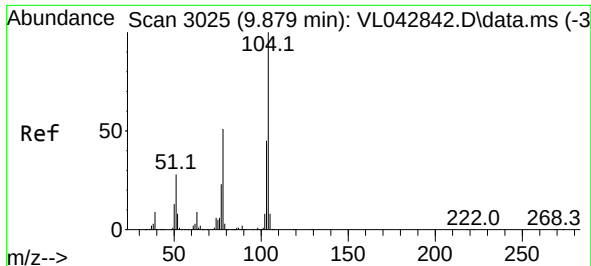
Tgt Ion: 91 Resp: 629445

Ion Ratio Lower Upper

91 100

106 43.9 21.8 65.4

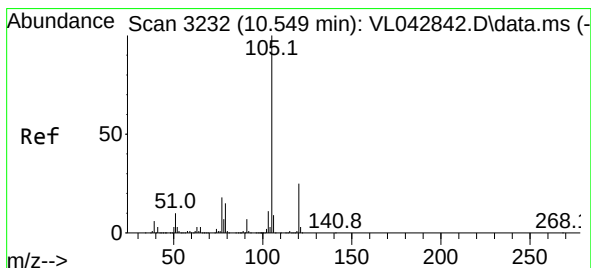
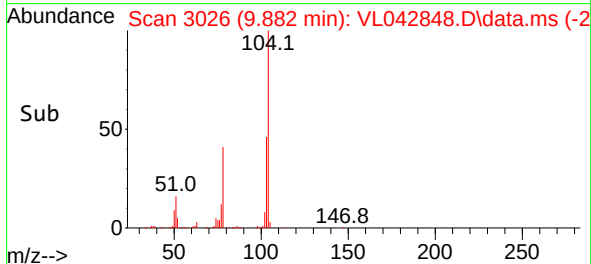
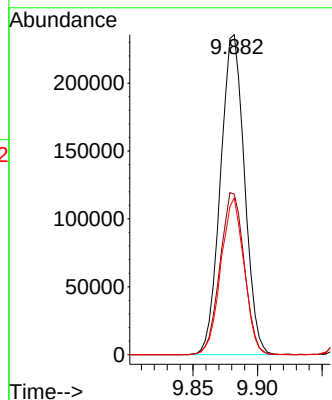
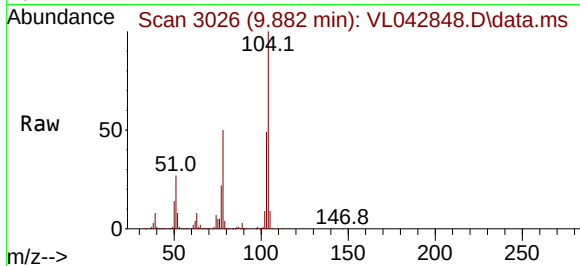




#61
Styrene
Concen: 13.827 ppbv
RT: 9.882 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

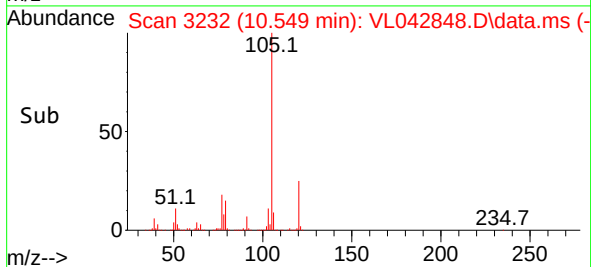
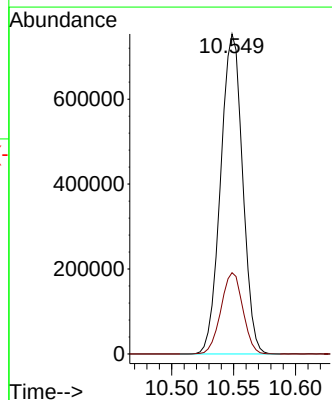
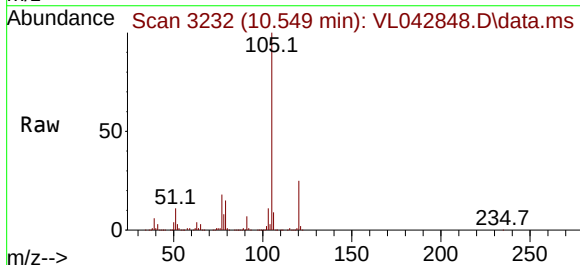
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

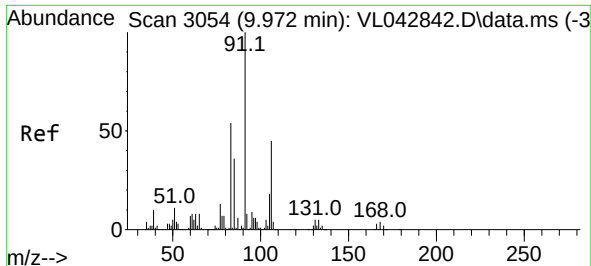
Tgt Ion:104 Resp: 304560
Ion Ratio Lower Upper
104 100
78 51.1 40.6 61.0
103 47.6 37.7 56.5



#62
Isopropylbenzene
Concen: 13.559 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:105 Resp: 931574
Ion Ratio Lower Upper
105 100
120 25.2 20.6 30.8

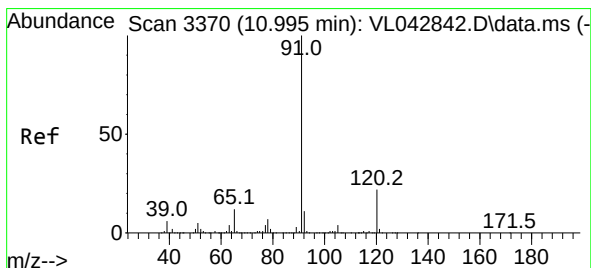
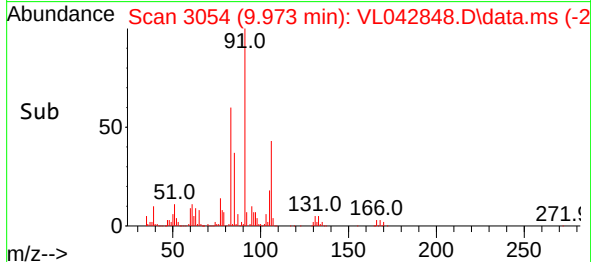
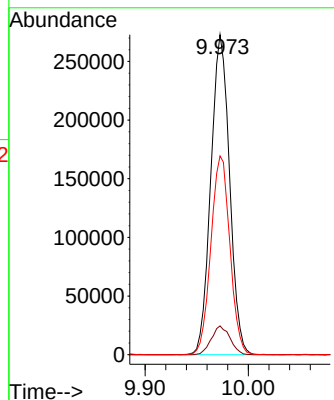
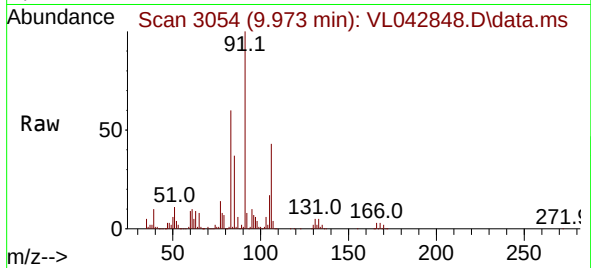




#63
 1,1,2,2-Tetrachloroethane
 Concen: 13.356 ppbv
 RT: 9.973 min Scan# 3054
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

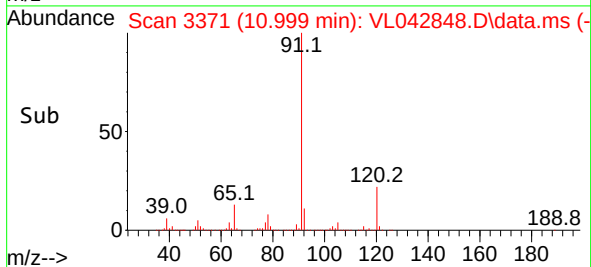
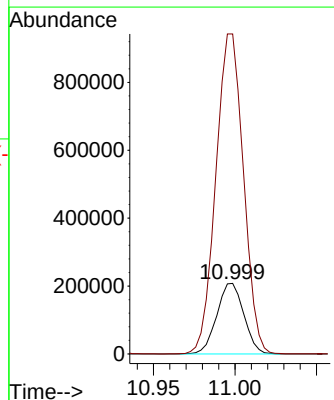
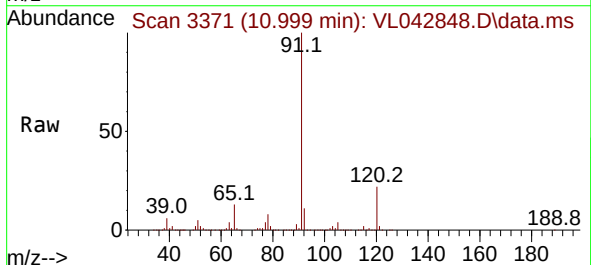
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

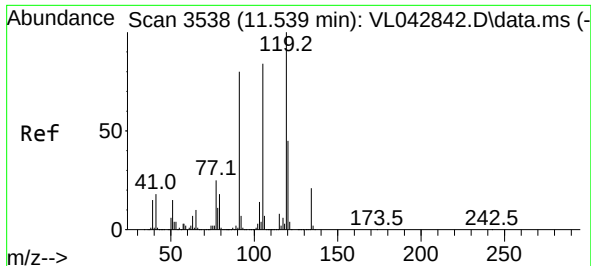
Tgt Ion: 83 Resp: 342890
 Ion Ratio Lower Upper
 83 100
 131 9.0 4.8 14.3
 85 63.0 32.3 96.8



#64
 n-propylbenzene
 Concen: 13.646 ppbv
 RT: 10.999 min Scan# 3371
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 120 Resp: 239209
 Ion Ratio Lower Upper
 120 100
 91 465.1 375.8 563.6

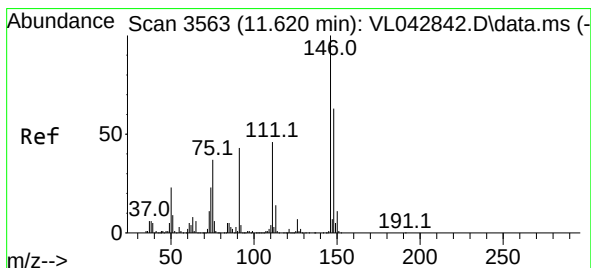
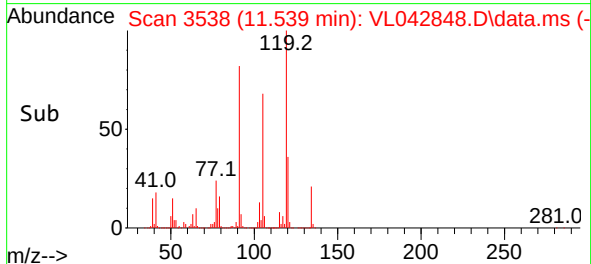
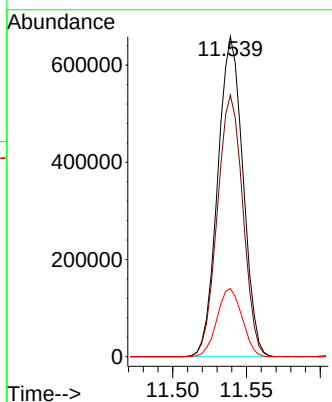
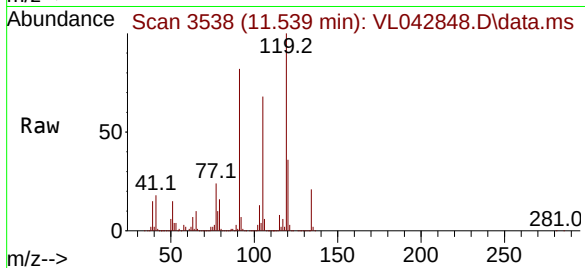




#65
tert-Butylbenzene
Concen: 12.965 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

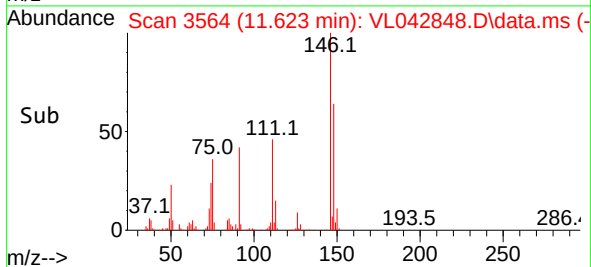
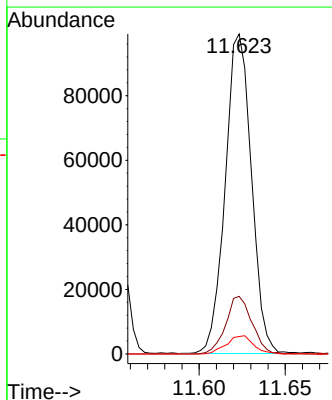
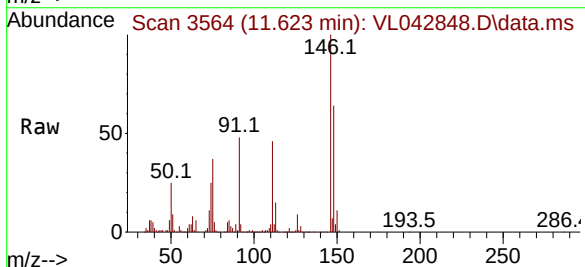
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

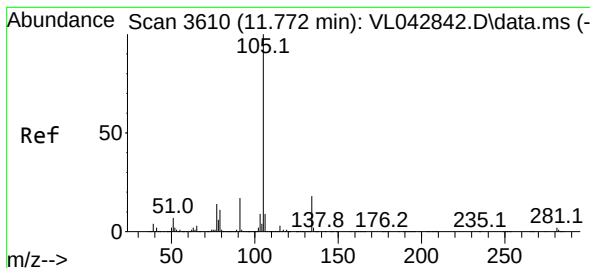
Tgt Ion:119 Resp: 785250
Ion Ratio Lower Upper
119 100
91 82.4 63.9 95.9
134 21.1 17.0 25.4



#66
Benzyl Chloride
Concen: 13.617 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 91 Resp: 104698
Ion Ratio Lower Upper
91 100
126 18.1 14.2 21.4
128 5.9 5.0 7.6

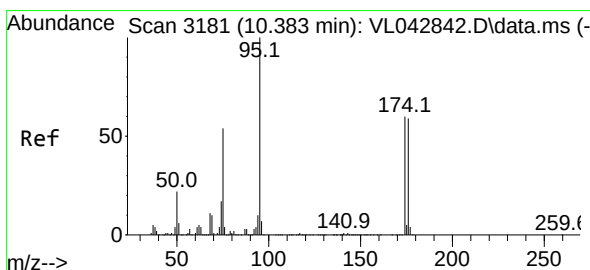
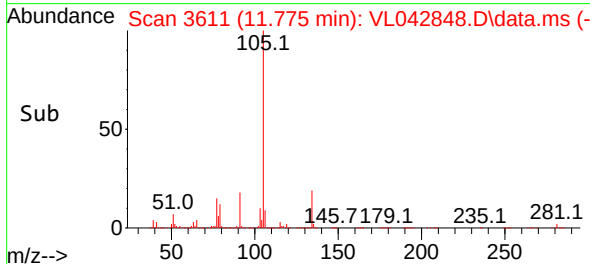
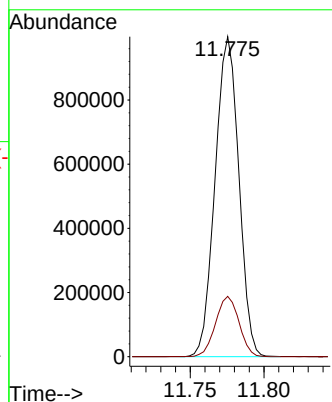
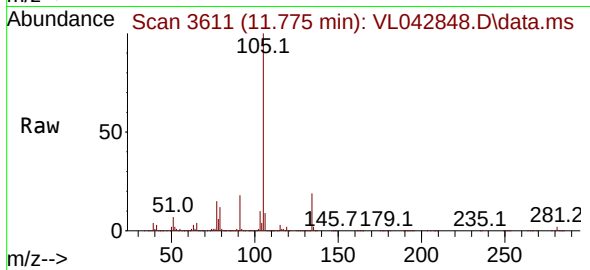




#67
 sec-Butylbenzene
 Concen: 13.127 ppbv
 RT: 11.775 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

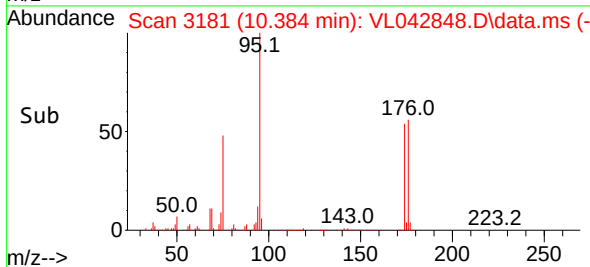
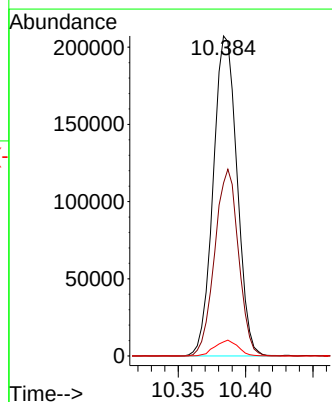
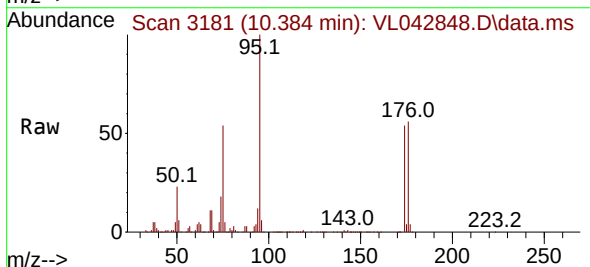
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

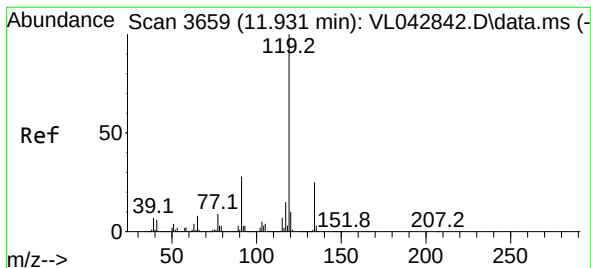
Tgt Ion:105 Resp: 1115979
 Ion Ratio Lower Upper
 105 100
 134 18.7 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.050 ppbv
 RT: 10.384 min Scan# 3181
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 95 Resp: 254655
 Ion Ratio Lower Upper
 95 100
 174 58.3 48.4 72.6
 175 4.8 3.8 5.8

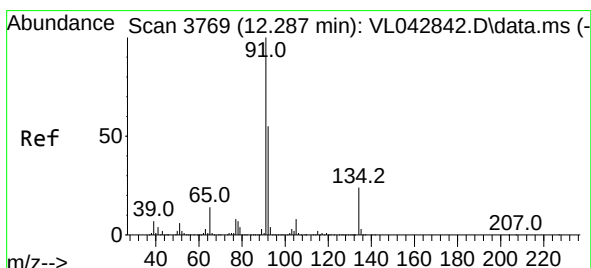
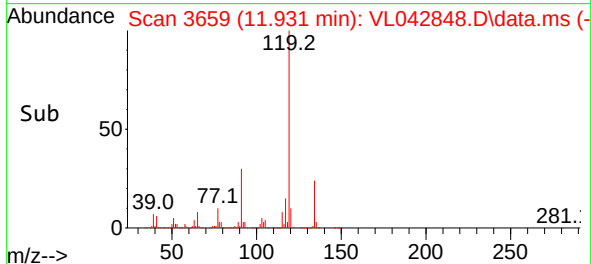
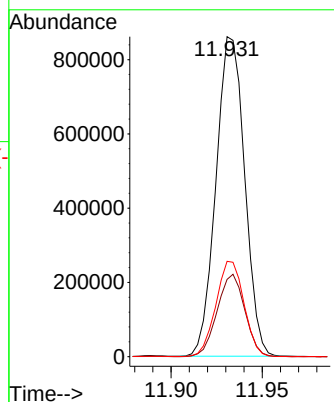
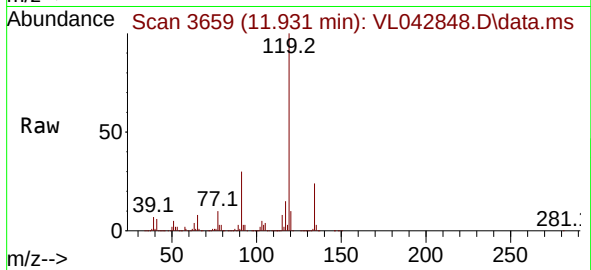




#69
 p-Isopropyltoluene
 Concen: 12.891 ppbv
 RT: 11.931 min Scan# 3659
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

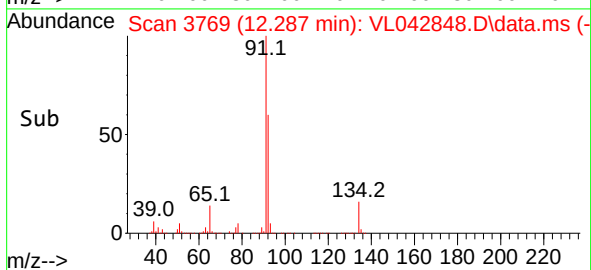
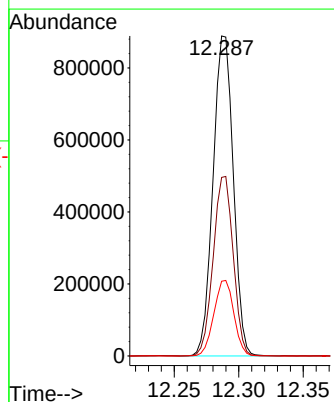
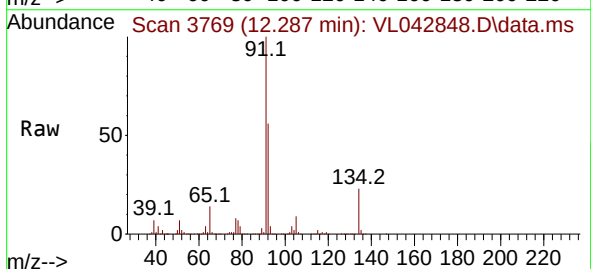
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

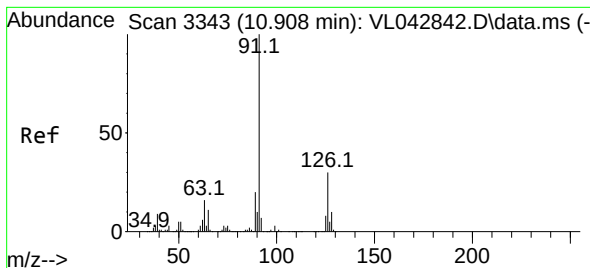
Tgt Ion:119 Resp: 940888
 Ion Ratio Lower Upper
 119 100
 134 25.0 20.6 30.8
 91 29.4 22.6 34.0



#70
 n-Butylbenzene
 Concen: 13.410 ppbv
 RT: 12.287 min Scan# 3769
 Delta R.T. 0.000 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion: 91 Resp: 970700
 Ion Ratio Lower Upper
 91 100
 92 55.5 44.6 66.8
 134 23.3 19.0 28.4

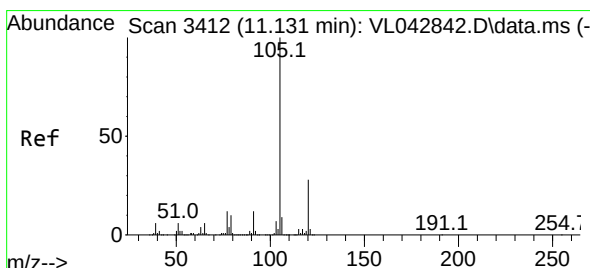
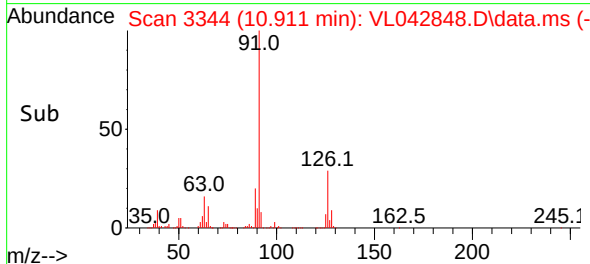
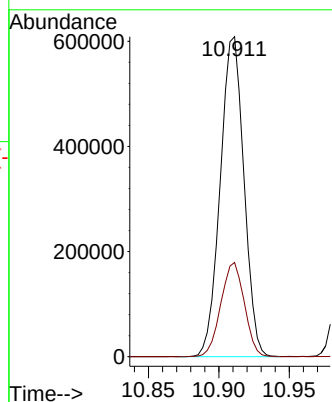
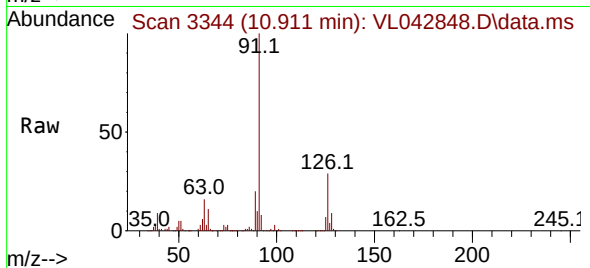




#71
2-Chlorotoluene
Concen: 13.378 ppbv
RT: 10.911 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

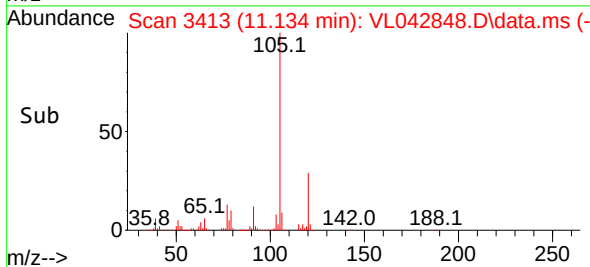
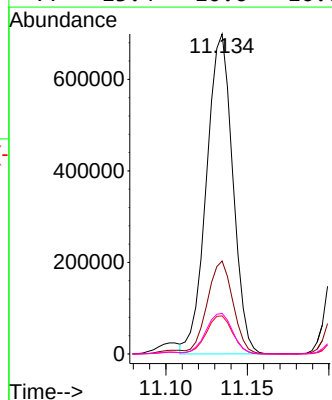
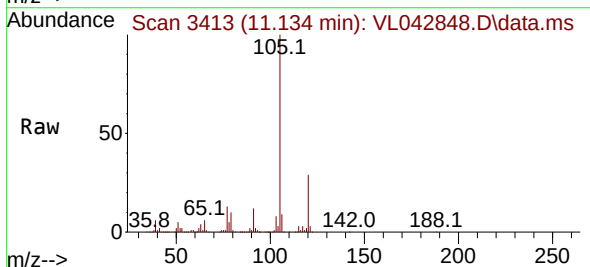
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

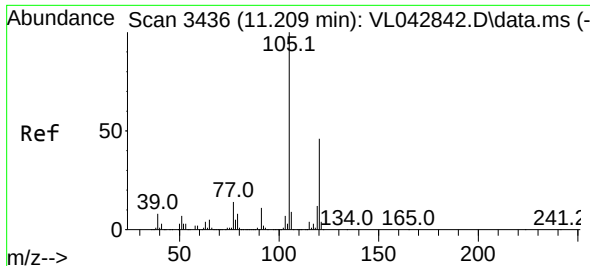
Tgt Ion: 91 Resp: 713696
Ion Ratio Lower Upper
91 100
126 29.2 12.0 47.8



#72
4-Ethyltoluene
Concen: 13.722 ppbv
RT: 11.134 min Scan# 3413
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 105 Resp: 782057
Ion Ratio Lower Upper
105 100
120 29.6 23.4 35.2
91 12.5 9.8 14.6
77 13.4 10.6 16.0

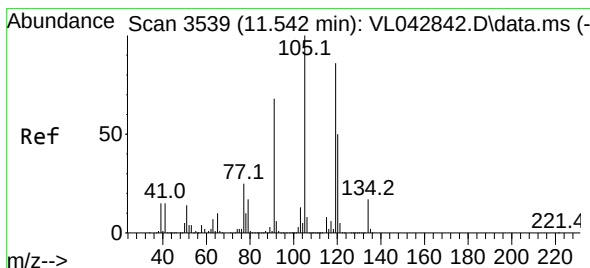
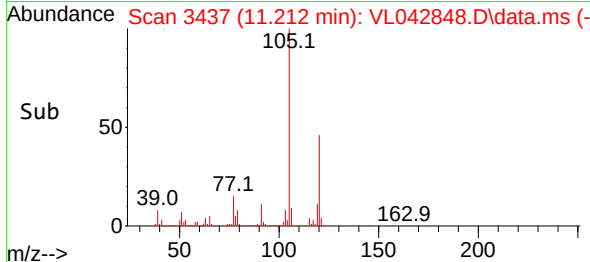
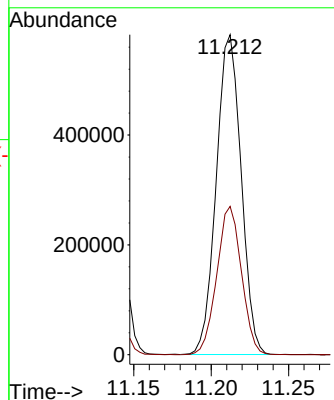
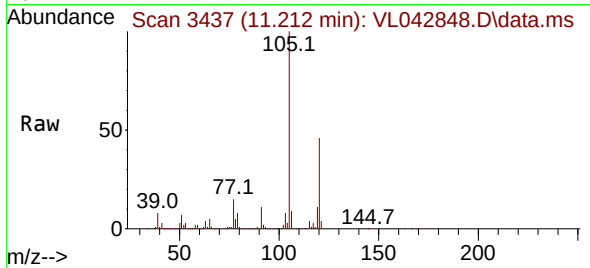




#73
 1,3,5-Trimethylbenzene
 Concen: 13.418 ppbv
 RT: 11.212 min Scan# 3437
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

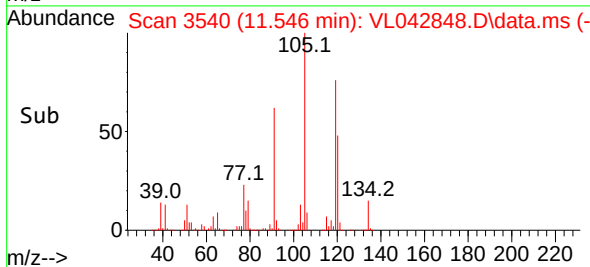
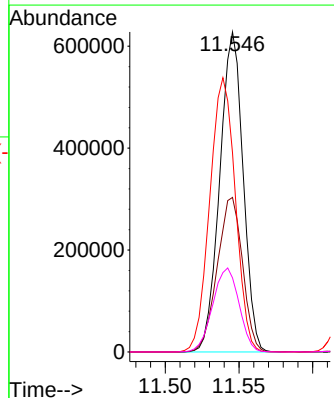
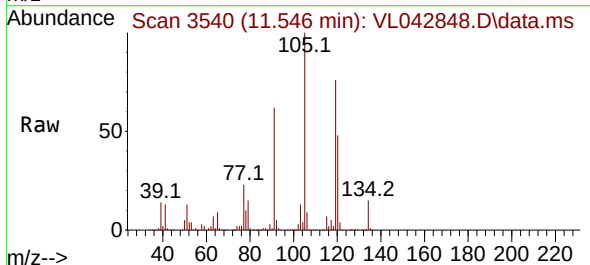
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

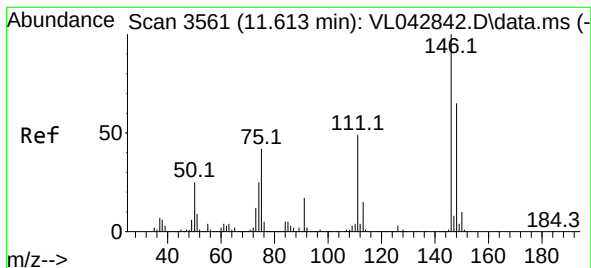
Tgt Ion:105 Resp: 650280
 Ion Ratio Lower Upper
 105 100
 120 46.4 36.6 54.8



#74
 1,2,4-Trimethylbenzene
 Concen: 13.003 ppbv
 RT: 11.546 min Scan# 3540
 Delta R.T. 0.003 min
 Lab File: VL042848.D
 Acq: 13 Aug 2025 12:06

Tgt Ion:105 Resp: 691709
 Ion Ratio Lower Upper
 105 100
 120 48.3 39.8 59.6
 91 62.2 54.2 81.4
 77 23.2 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 13.321 ppbv

RT: 11.617 min Scan# 3561

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

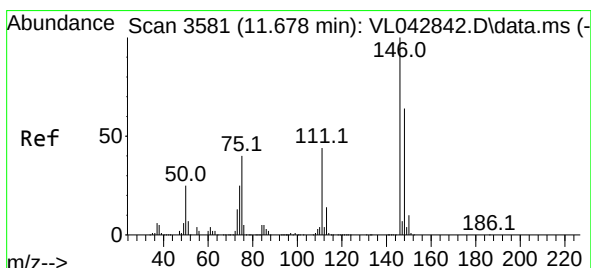
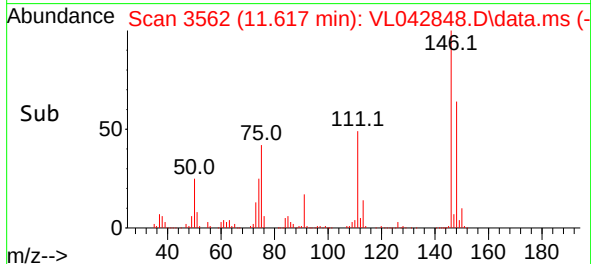
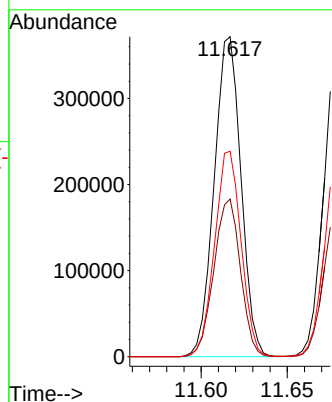
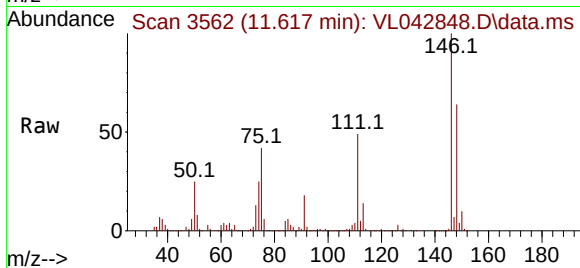
Tgt Ion:146 Resp: 402850

Ion Ratio Lower Upper

146 100

111 48.9 23.9 71.7

148 63.5 31.4 94.0



#76

1,4-Dichlorobenzene

Concen: 13.314 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

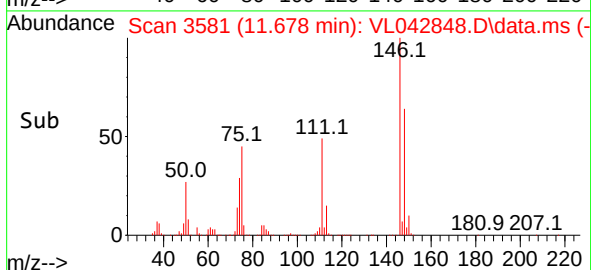
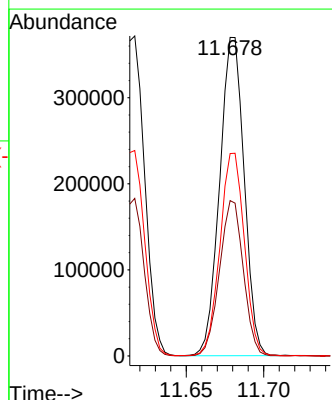
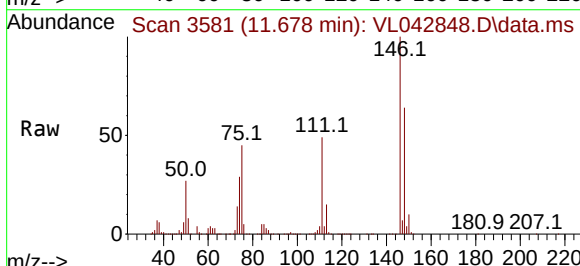
Tgt Ion:146 Resp: 407214

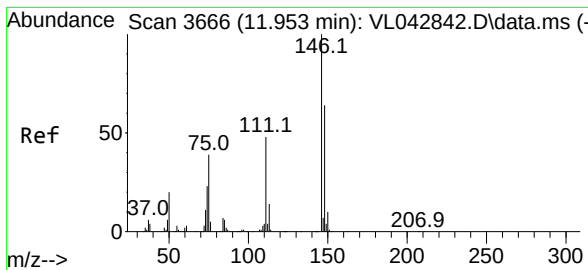
Ion Ratio Lower Upper

146 100

111 47.5 22.7 68.1

148 63.8 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 13.031 ppbv

RT: 11.953 min Scan# 3

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

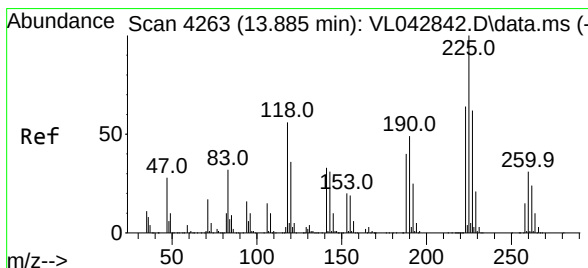
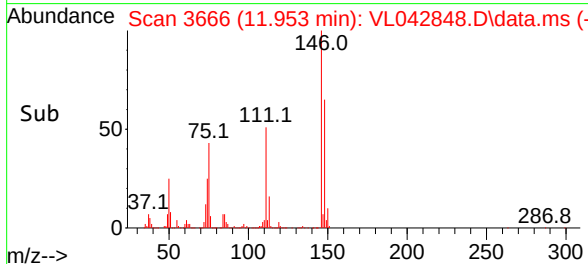
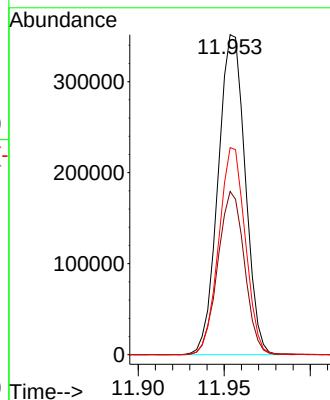
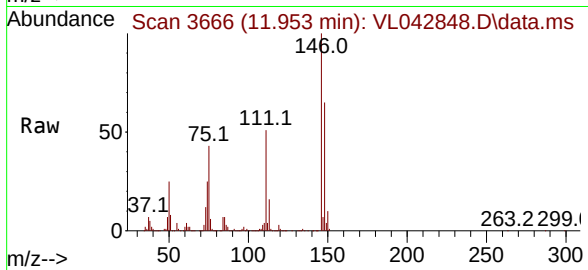
Tgt Ion:146 Resp: 385866

Ion Ratio Lower Upper

146 100

111 50.2 24.6 74.0

148 63.3 32.0 96.0



#78

Hexachloro-1,3-Butadiene

Concen: 11.602 ppbv

RT: 13.886 min Scan# 4263

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

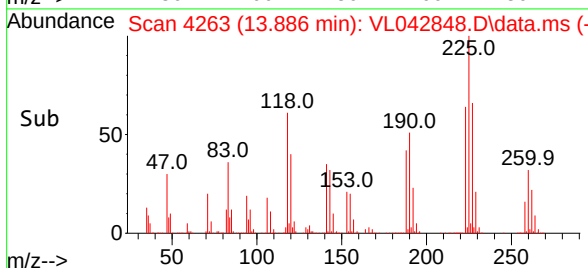
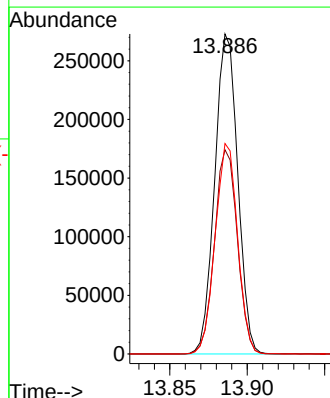
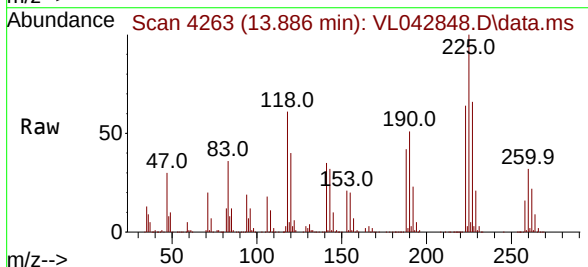
Tgt Ion:225 Resp: 281581

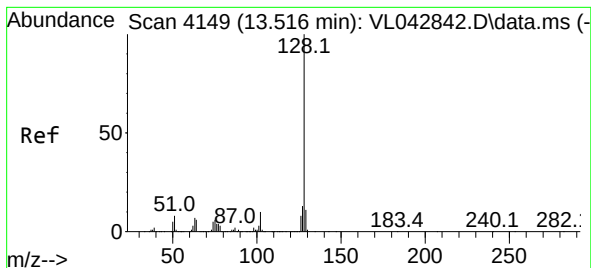
Ion Ratio Lower Upper

225 100

223 63.6 51.4 77.2

227 64.2 51.9 77.9





#79

Naphthalene

Concen: 13.837 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

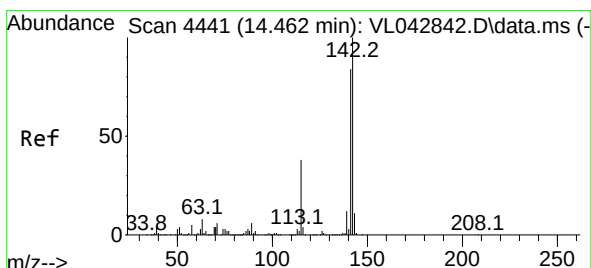
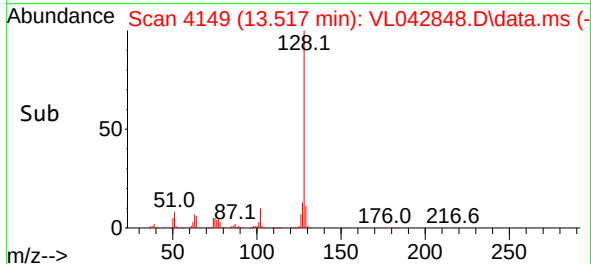
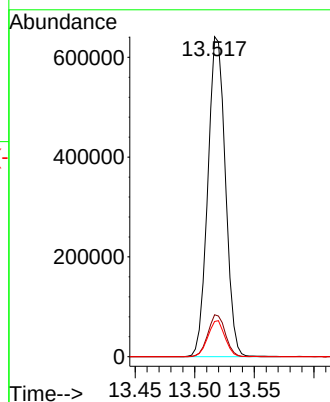
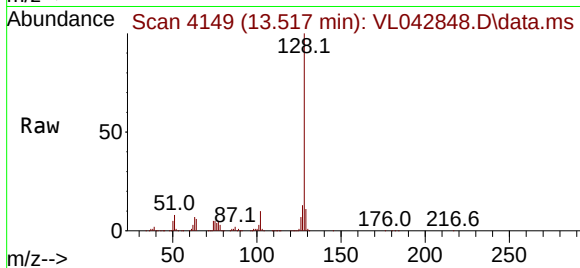
Tgt Ion:128 Resp: 658732

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

129 11.0 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 14.042 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

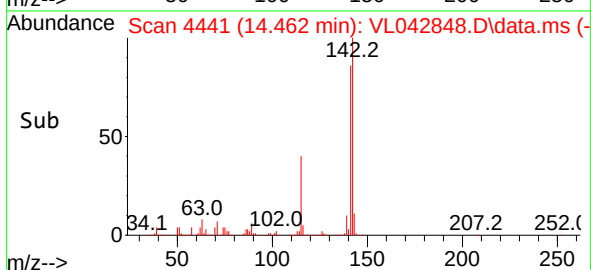
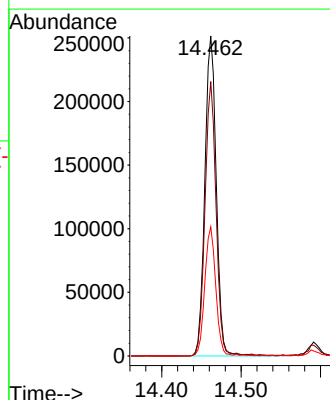
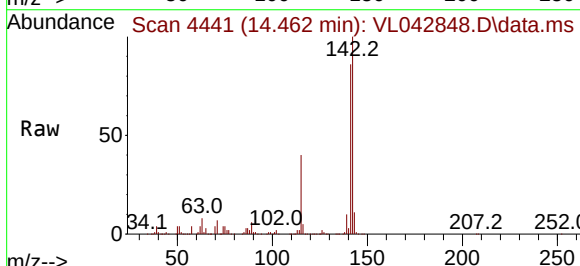
Tgt Ion:142 Resp: 251753

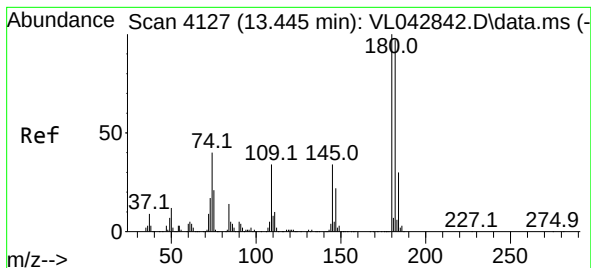
Ion Ratio Lower Upper

142 100

141 83.9 67.0 100.6

115 39.3 30.9 46.3





#81

1,2,4-Trichlorobenzene

Concen: 13.599 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042848.D

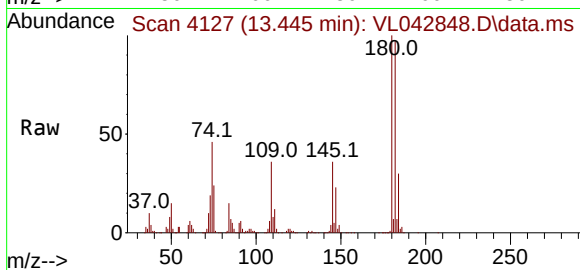
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



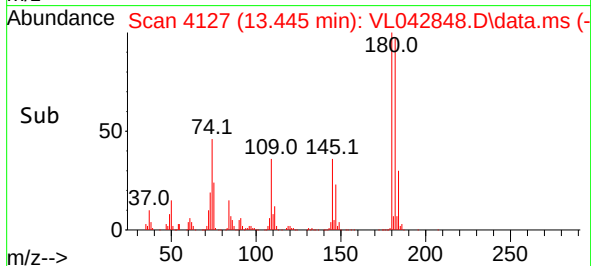
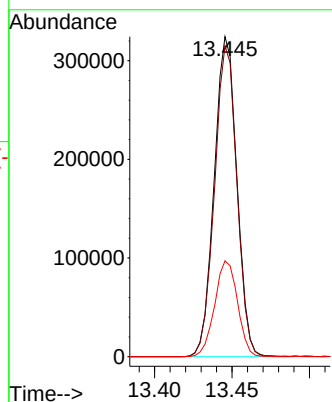
Tgt Ion:180 Resp: 329641

Ion Ratio Lower Upper

180 100

182 96.2 76.9 115.3

184 30.3 24.5 36.7



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 :
 ICSVVL081325

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

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

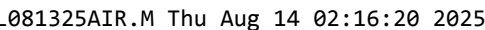
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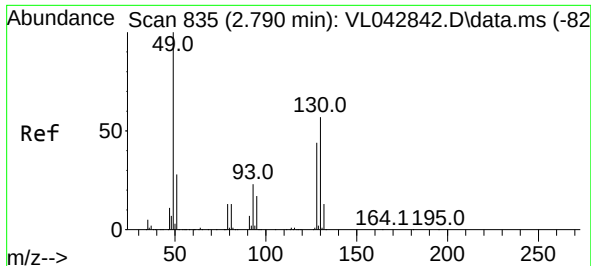
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	108009	5.200	ppbv	99
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	9.542	91	462620	10.029	ppbv #	100
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

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 26 06:05:16 2022
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

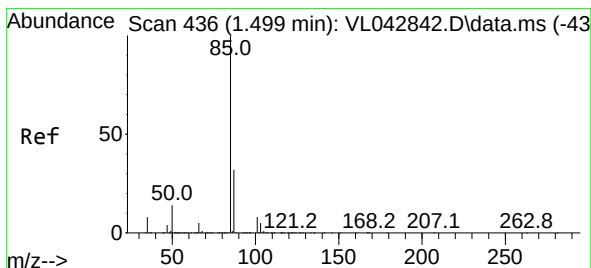
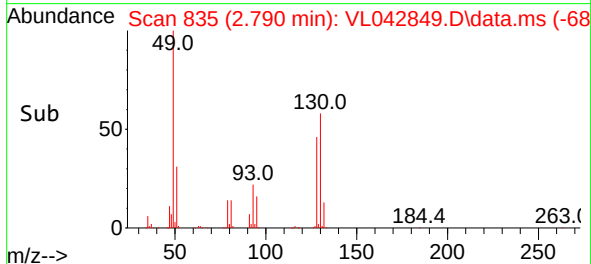
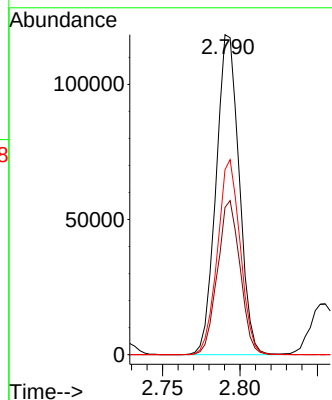
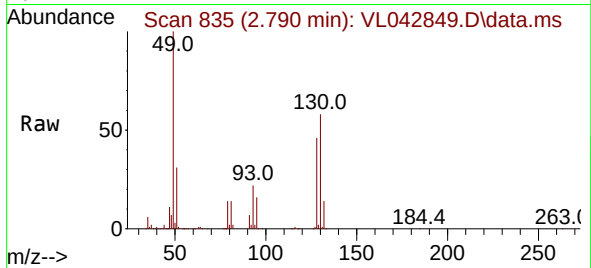




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 835
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

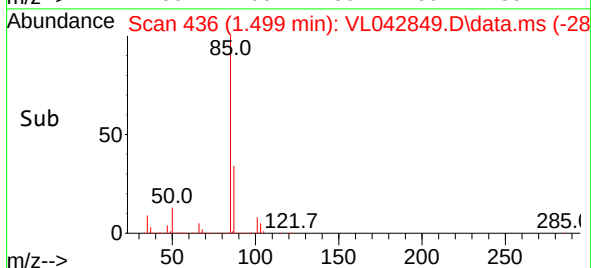
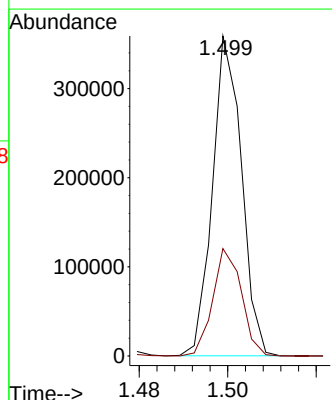
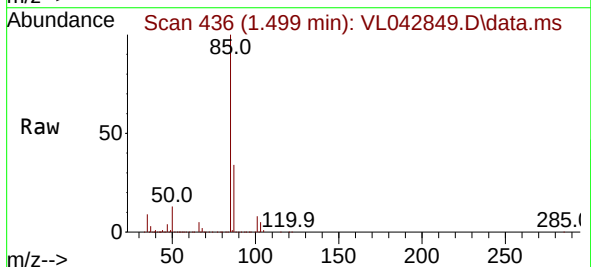
Instrument :
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 ClientSampleId :
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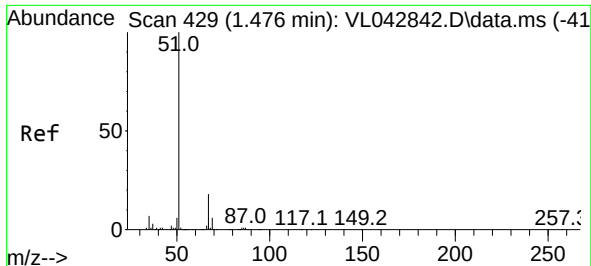
Tgt Ion: 49 Resp: 122486
 Ion Ratio Lower Upper
 49 100
 128 47.2 23.7 71.1
 130 60.0 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 9.105 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Tgt Ion: 85 Resp: 163446
 Ion Ratio Lower Upper
 85 100
 87 33.6 25.3 37.9

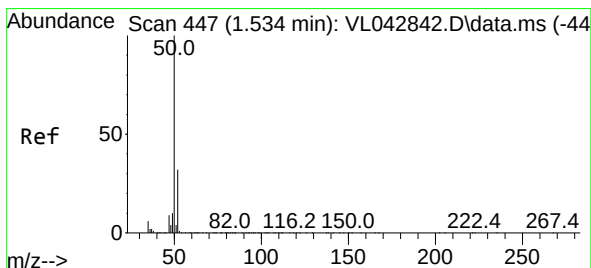
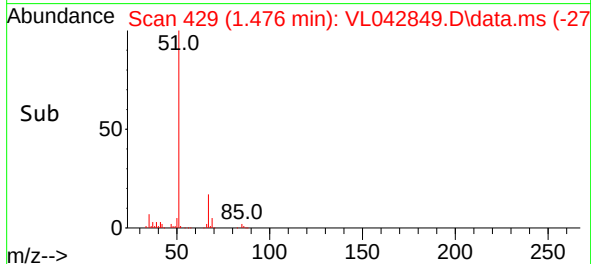
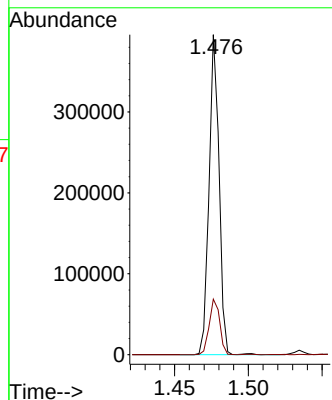
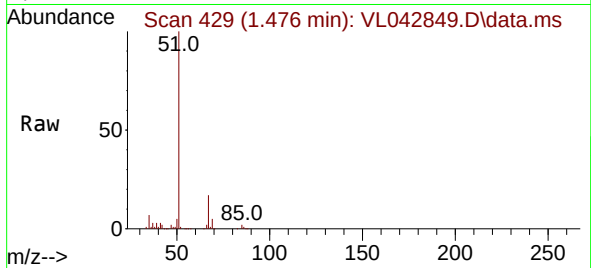




#3
Chlorodifluoromethane
Concen: 9.327 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

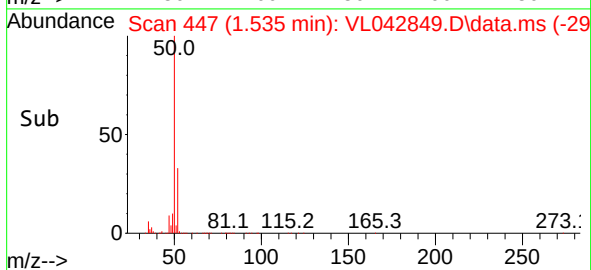
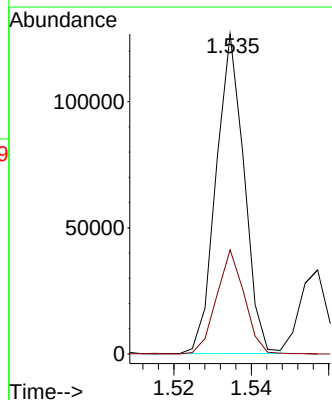
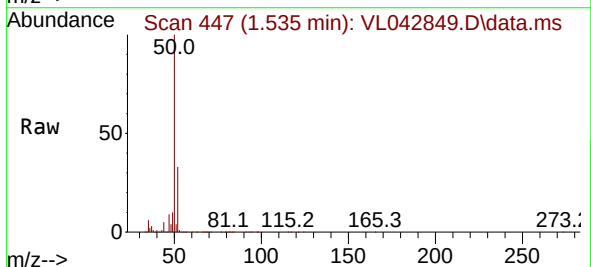
Instrument :
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ClientSampleId :
ICVVL081325

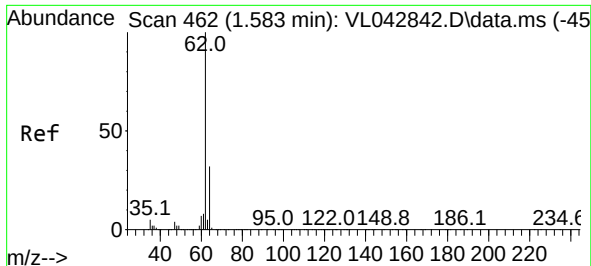
Tgt Ion: 51 Resp: 185078
Ion Ratio Lower Upper
51 100
67 18.6 14.9 22.3



#4
Chloromethane
Concen: 8.784 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 50 Resp: 63634
Ion Ratio Lower Upper
50 100
52 32.6 25.9 38.9

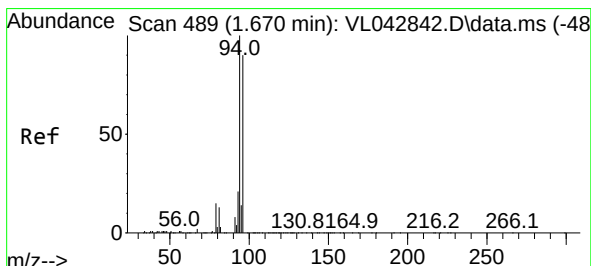
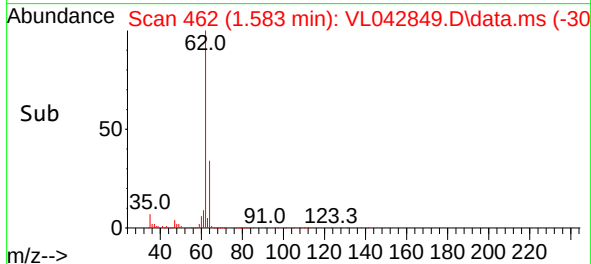
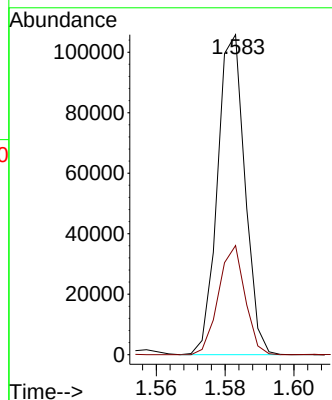
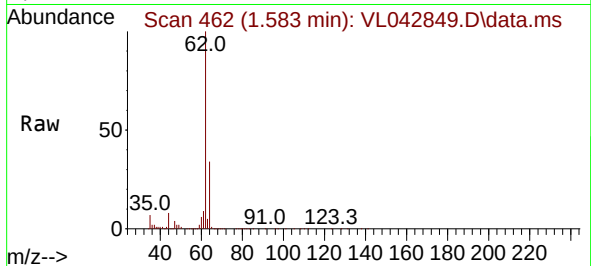




#5
 Vinyl Chloride
 Concen: 8.232 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

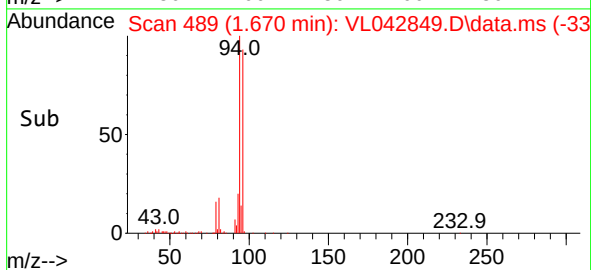
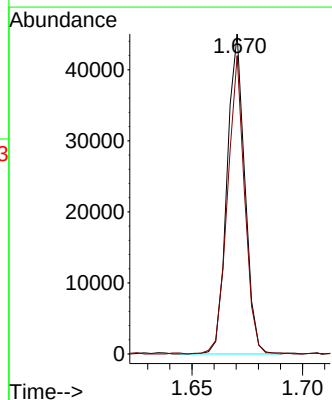
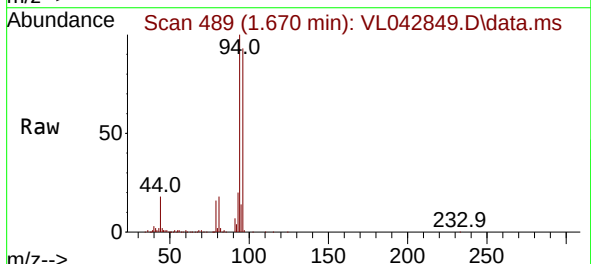
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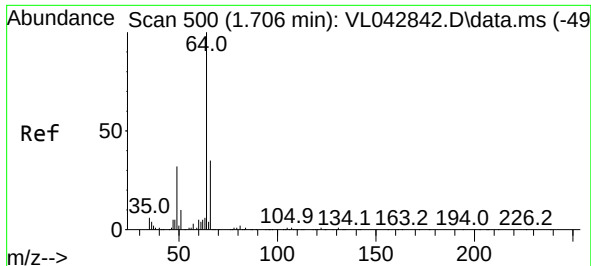
Tgt Ion: 62 Resp: 58729
 Ion Ratio Lower Upper
 62 100
 64 34.1 25.4 38.2



#6
 Bromomethane
 Concen: 8.801 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Tgt Ion: 94 Resp: 25105
 Ion Ratio Lower Upper
 94 100
 96 92.9 72.1 108.1

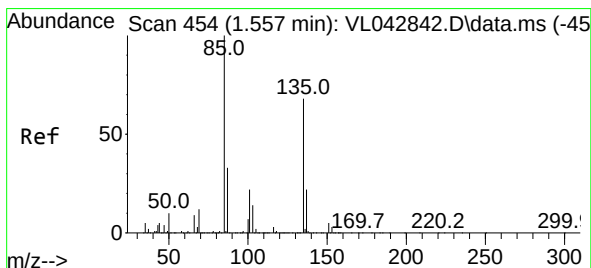
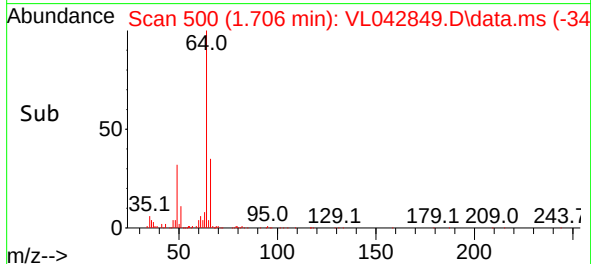
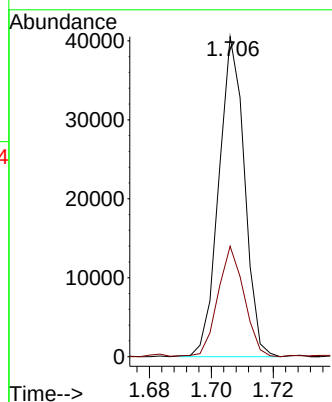
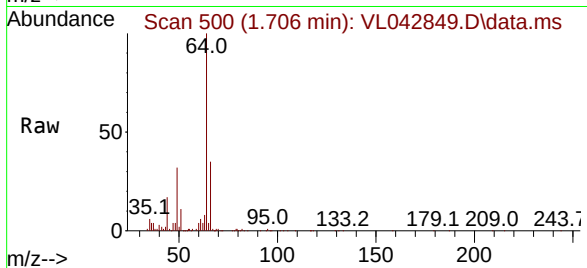




#7
Chloroethane
Concen: 8.360 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

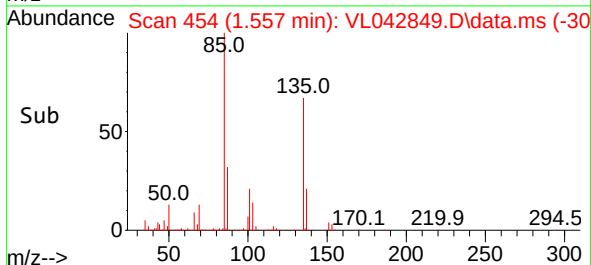
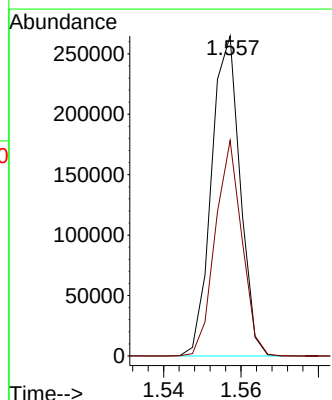
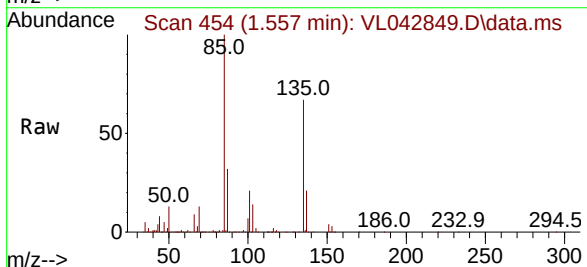
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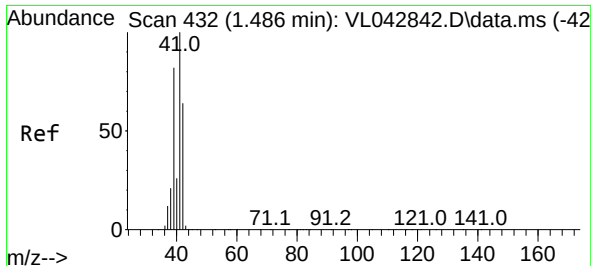
Tgt Ion: 64 Resp: 23293
Ion Ratio Lower Upper
64 100
66 34.5 28.6 42.8



#8
Dichlorotetrafluoroethane
Concen: 9.248 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 85 Resp: 135845
Ion Ratio Lower Upper
85 100
135 62.9 51.2 76.8





#9

Propene

Concen: 8.922 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

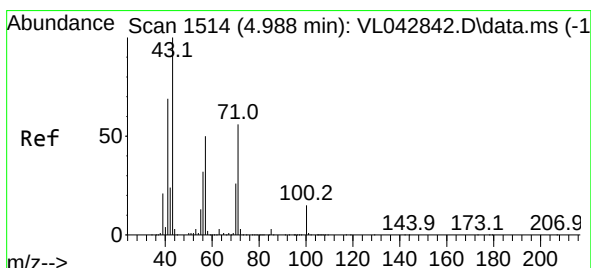
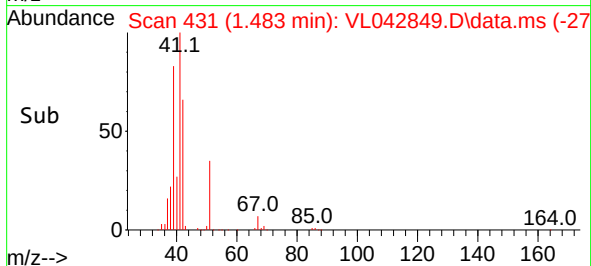
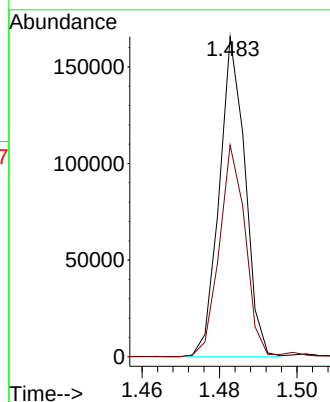
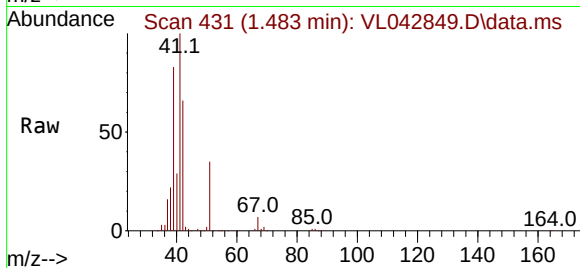
ICVVL081325

Tgt Ion: 41 Resp: 76457

Ion Ratio Lower Upper

41 100

42 68.4 53.0 79.4



#10

Heptane

Concen: 8.990 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.000 min

Lab File: VL042849.D

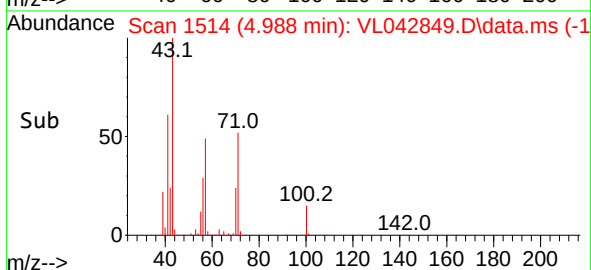
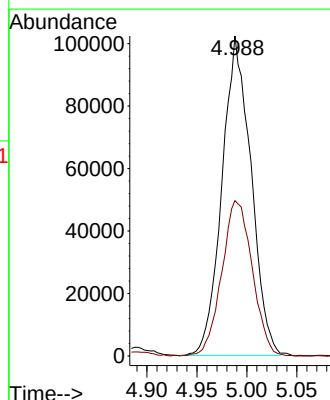
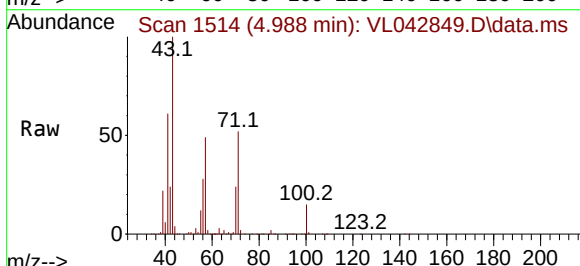
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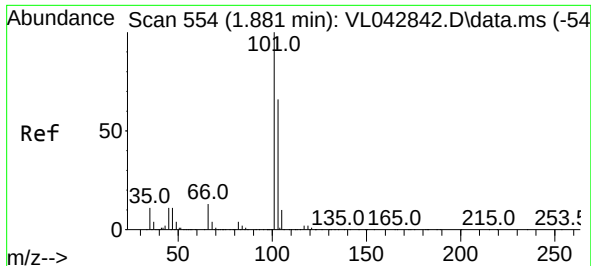
Tgt Ion: 43 Resp: 206333

Ion Ratio Lower Upper

43 100

57 51.2 41.4 62.0

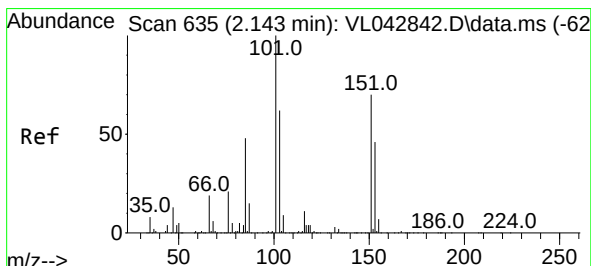
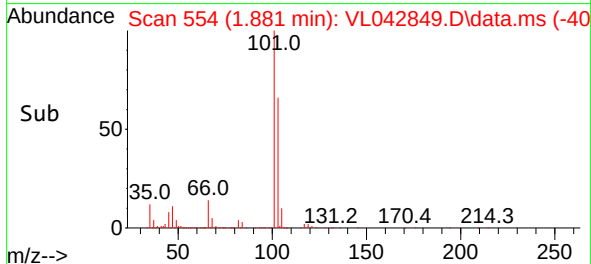
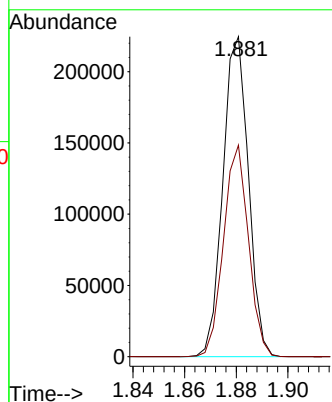
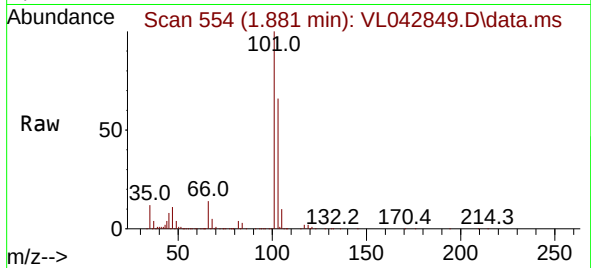




#11
 Trichlorofluoromethane
 Concen: 8.707 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

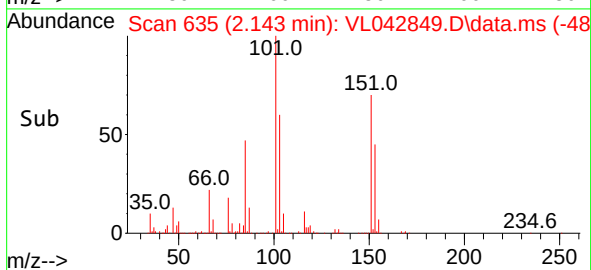
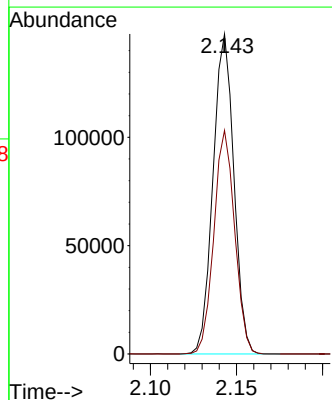
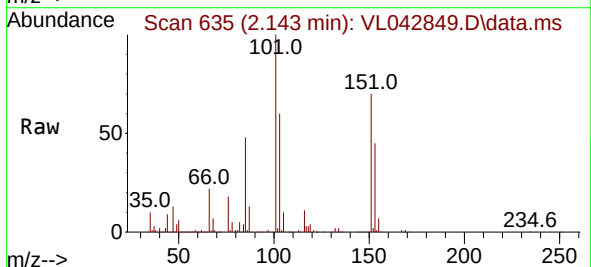
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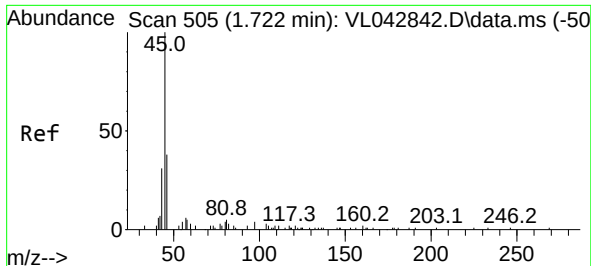
Tgt Ion:101 Resp: 154211
 Ion Ratio Lower Upper
 101 100
 103 66.1 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.824 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Tgt Ion:101 Resp: 124558
 Ion Ratio Lower Upper
 101 100
 151 69.7 56.4 84.6

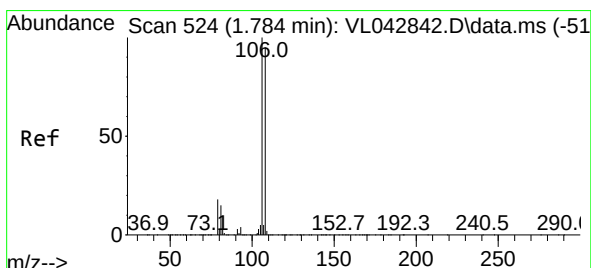
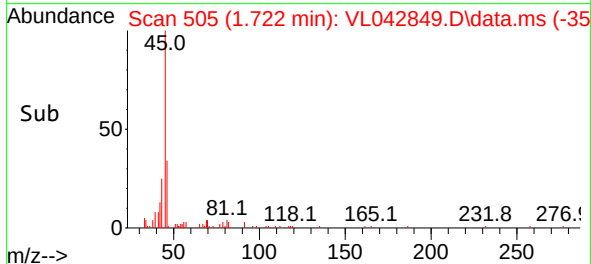
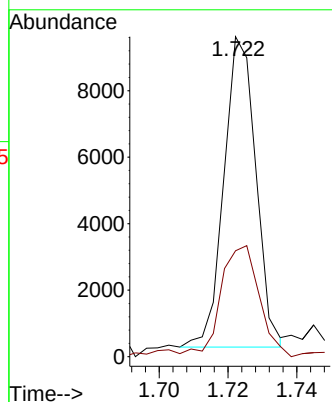
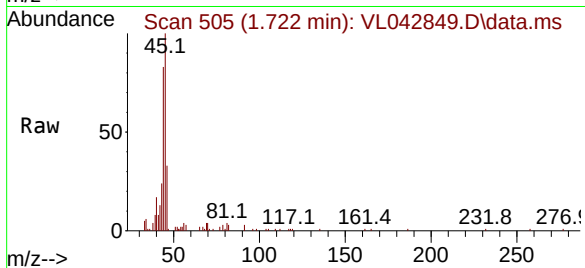




#13
Ethanol
Concen: 7.678 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

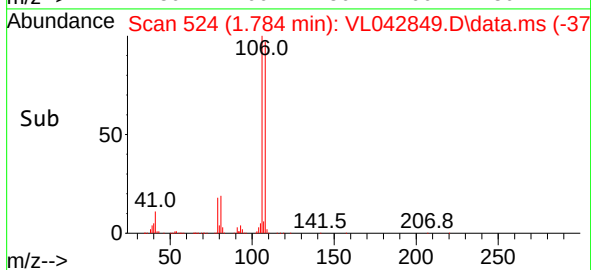
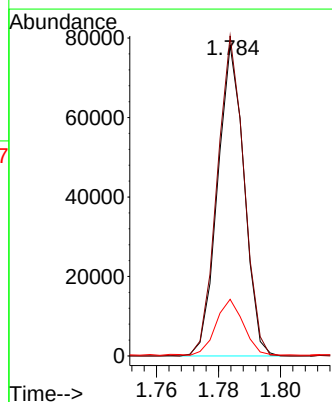
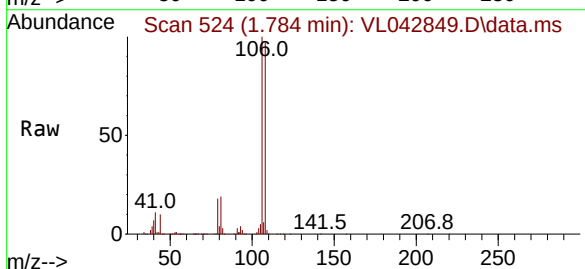
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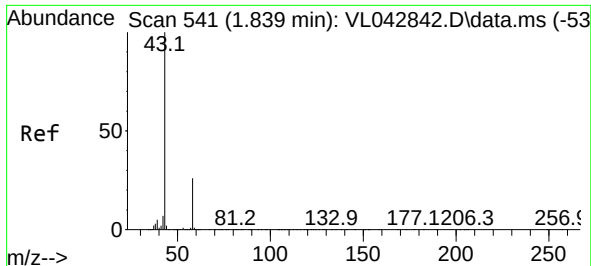
Tgt Ion: 45 Resp: 6016
Ion Ratio Lower Upper
45 100
46 46.2 17.5 69.9



#14
Bromoethene
Concen: 9.105 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 108 Resp: 46528
Ion Ratio Lower Upper
108 100
106 104.1 85.1 127.7
79 19.8 16.3 24.5

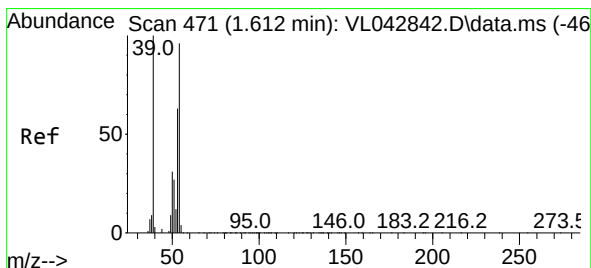
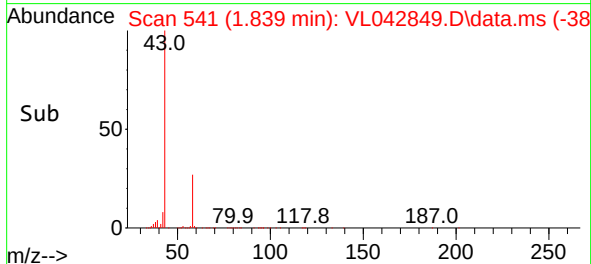
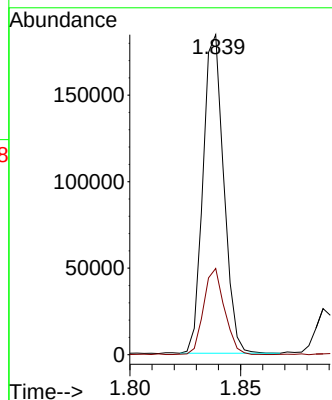
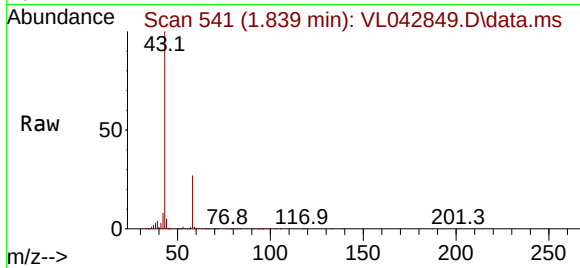




#15
Acetone
Concen: 7.389 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

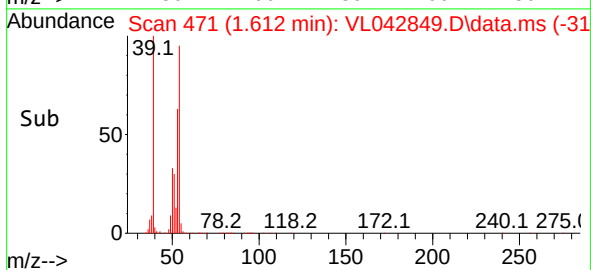
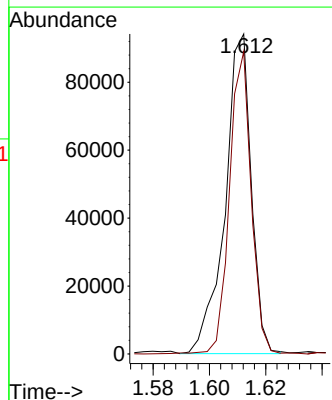
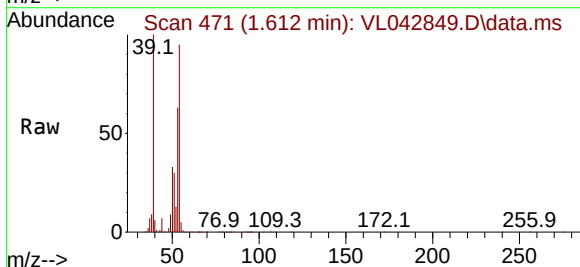
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

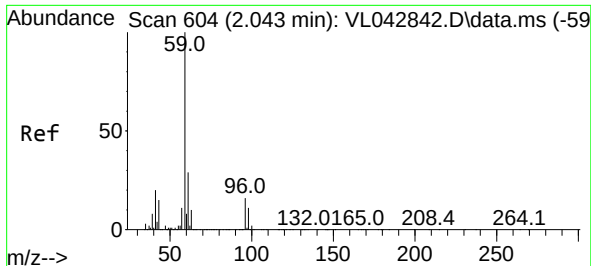
Tgt Ion: 43 Resp: 119723
Ion Ratio Lower Upper
43 100
58 27.6 22.4 33.6



#16
1,3-Butadiene
Concen: 8.285 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 39 Resp: 60853
Ion Ratio Lower Upper
39 100
54 78.9 63.6 95.4





#17

tert-Butyl alcohol

Concen: 8.663 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

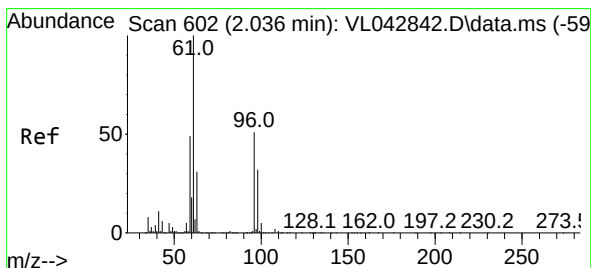
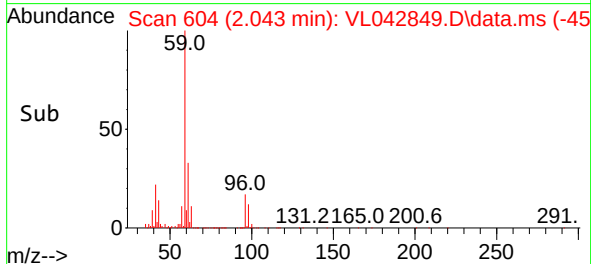
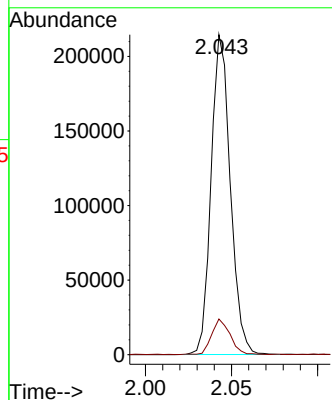
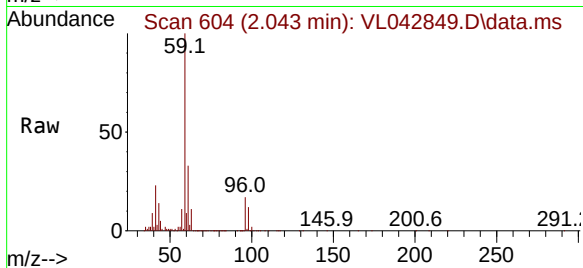
ICVVL081325

Tgt Ion: 59 Resp: 166457

Ion Ratio Lower Upper

59 100

57 10.7 9.0 13.4



#18

1,1-Dichloroethene

Concen: 9.087 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

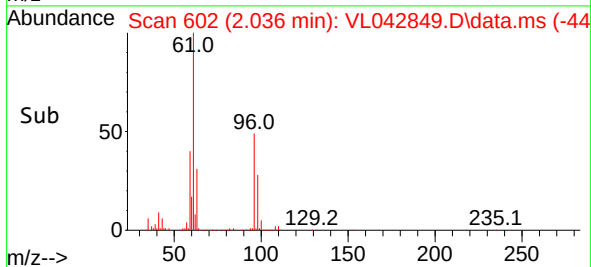
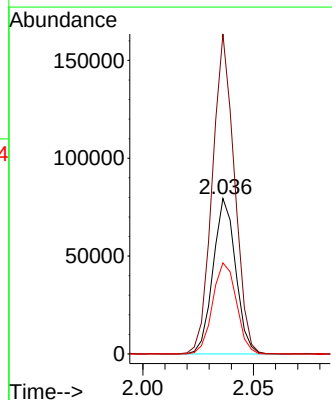
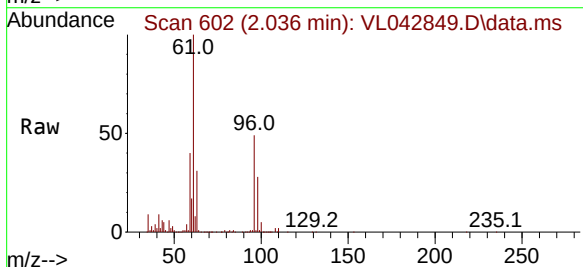
Tgt Ion: 96 Resp: 56397

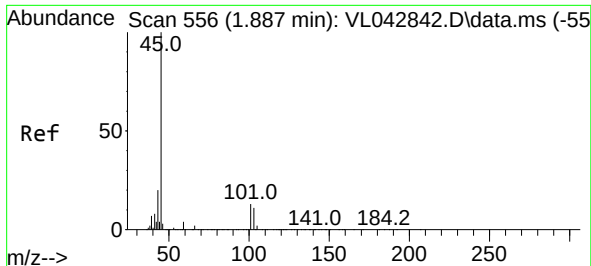
Ion Ratio Lower Upper

96 100

61 205.8 158.2 237.4

98 58.5 50.6 76.0

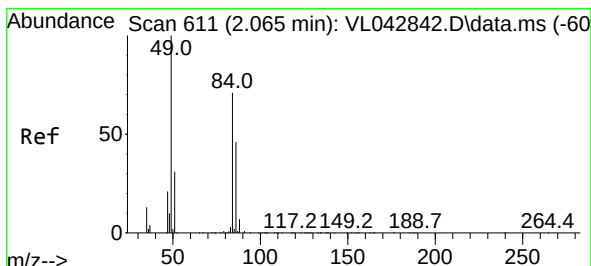
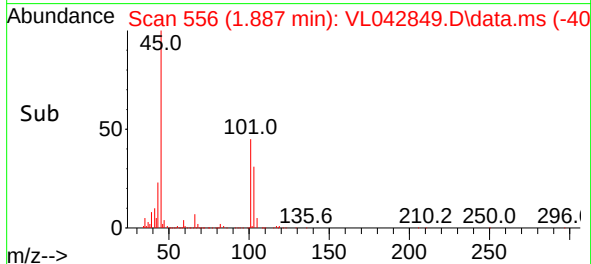
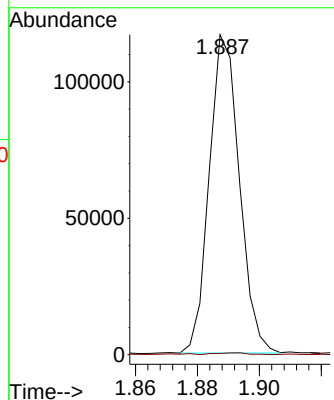
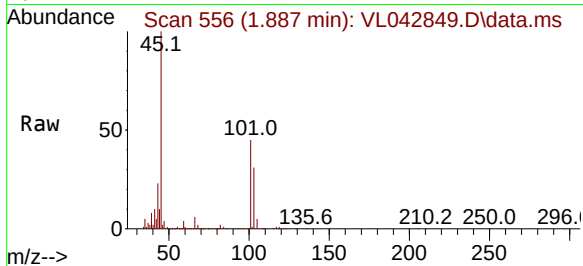




#19
Isopropyl Alcohol
Concen: 8.146 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

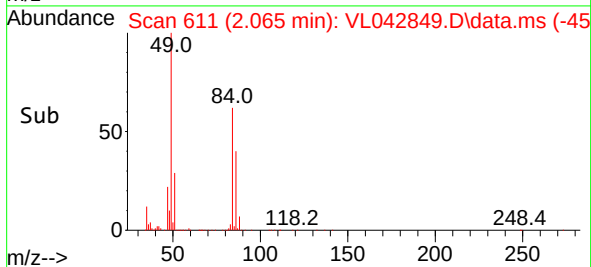
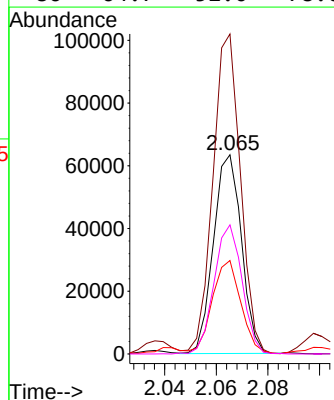
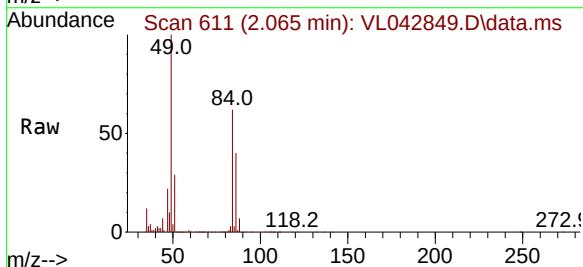
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

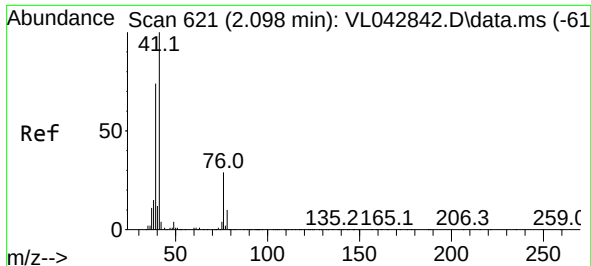
Tgt Ion: 45 Resp: 78832
Ion Ratio Lower Upper
45 100
58 42.0 32.7 49.1



#20
Methylene Chloride
Concen: 7.041 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 84 Resp: 47793
Ion Ratio Lower Upper
84 100
49 160.7 112.3 168.5
51 46.9 36.0 54.0
86 64.7 52.0 78.0

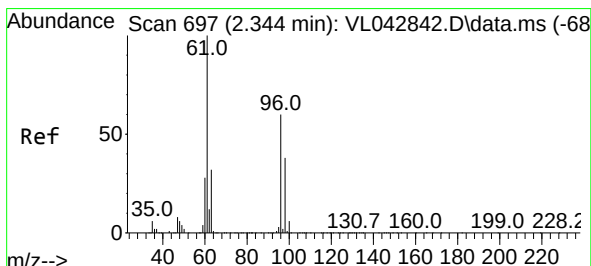
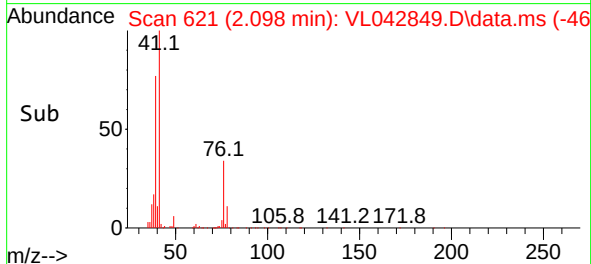
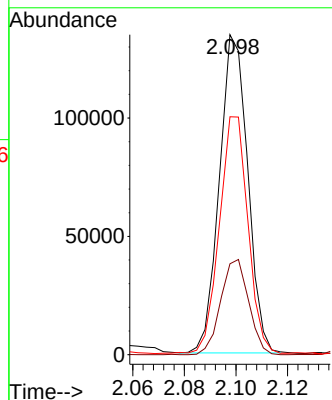
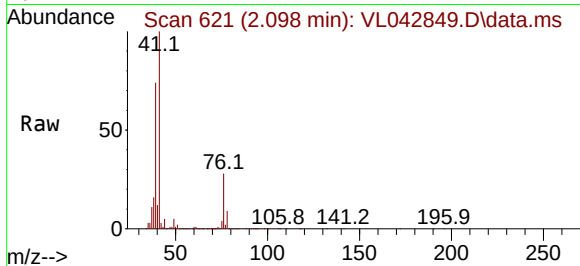




#21
 Allyl Chloride
 Concen: 8.956 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

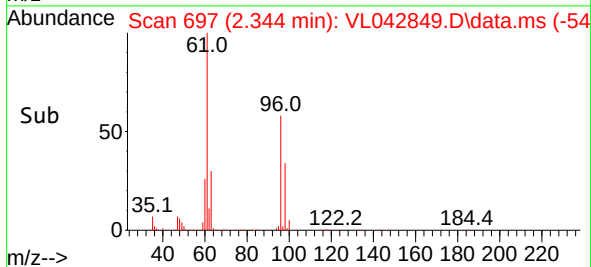
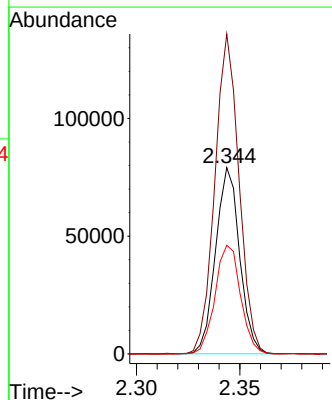
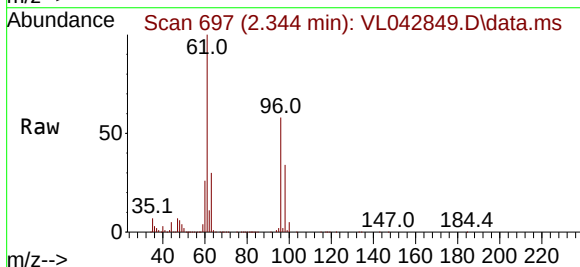
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

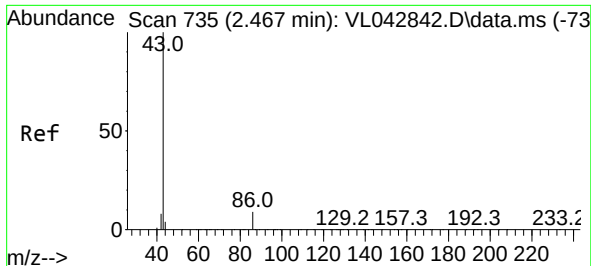
Tgt Ion:	41	Resp:	102514
Ion	Ratio	Lower	Upper
41	100		
76	29.5	23.9	35.9
39	76.1	57.8	86.6



#22
 trans-1,2-Dichloroethene
 Concen: 8.904 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Tgt Ion:	96	Resp:	63932
Ion	Ratio	Lower	Upper
96	100		
61	171.8	132.6	199.0
98	58.3	50.0	75.0



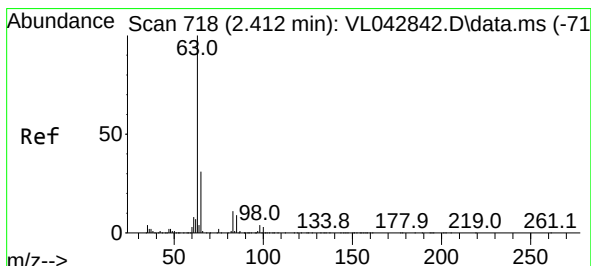
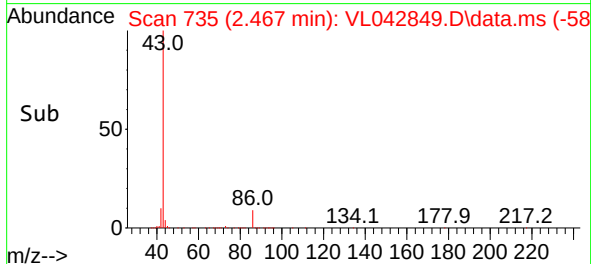
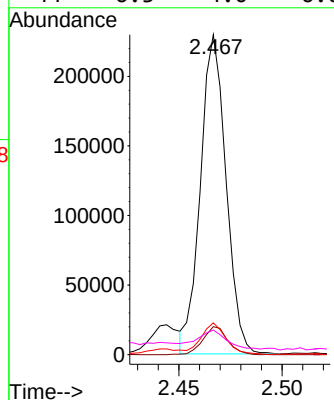
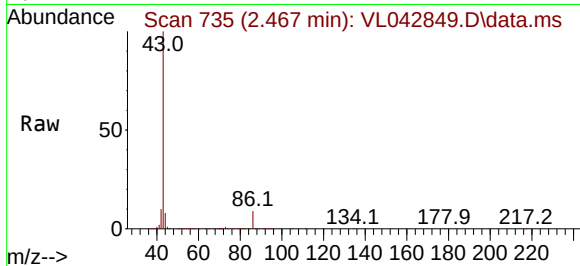


#23
 Vinyl Acetate
 Concen: 8.891 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL081325

Tgt Ion: 43 Resp: 198083

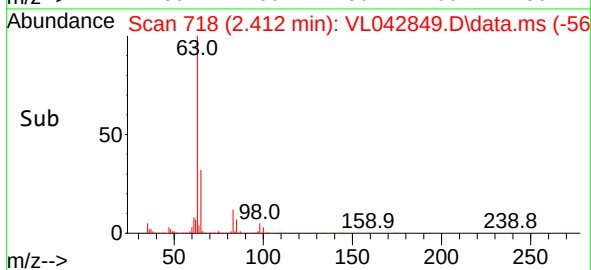
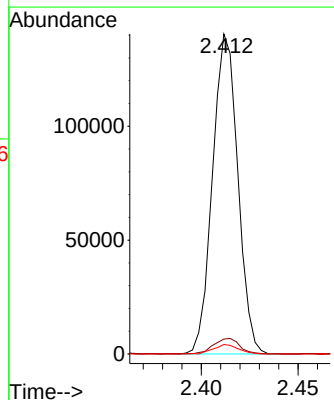
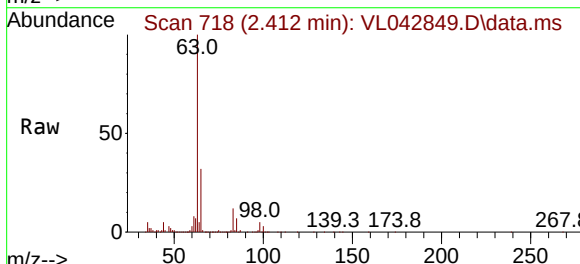
Ion	Ratio	Lower	Upper
43	100		
86	8.8	6.6	9.8
42	9.8	7.0	10.6
44	6.3	4.0	6.0

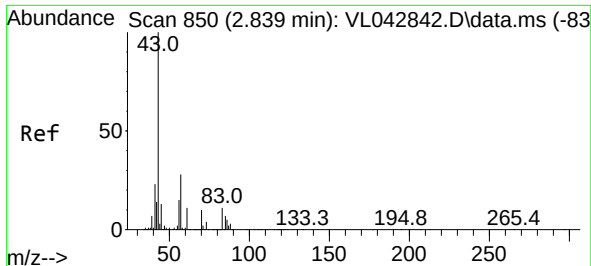


#24
 1,1-Dichloroethane
 Concen: 8.903 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Tgt Ion: 63 Resp: 127660

Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.1	6.5
100	3.0	1.7	5.1

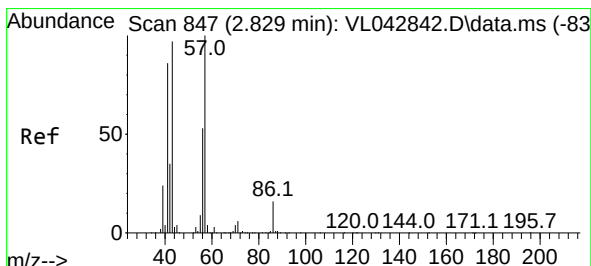
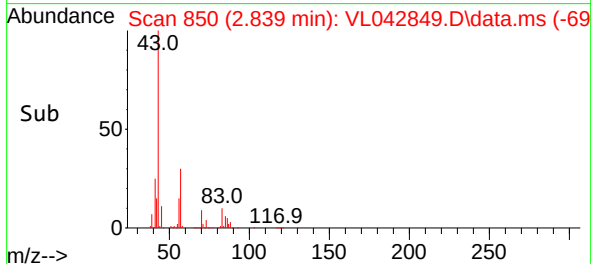
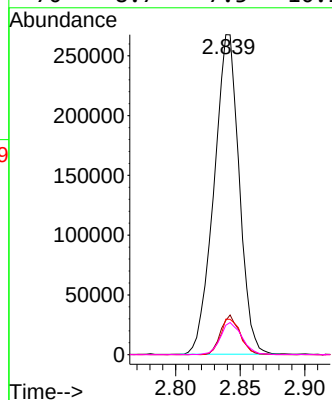
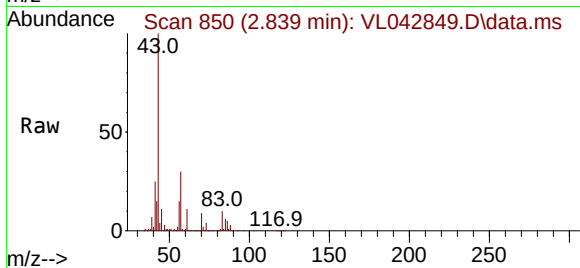




#25
Ethyl Acetate
Concen: 9.240 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

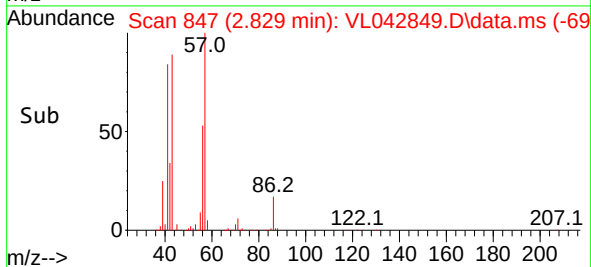
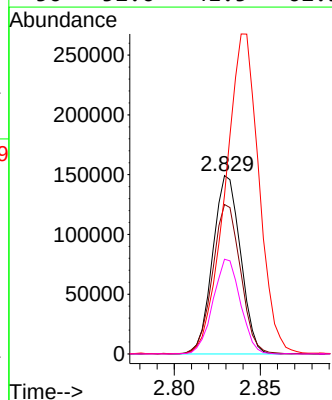
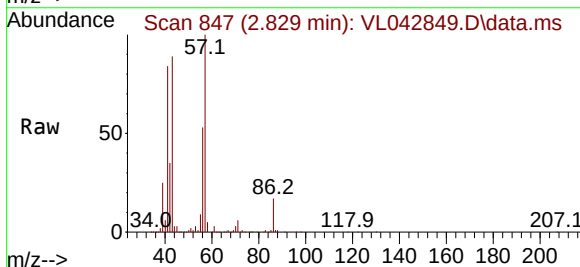
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

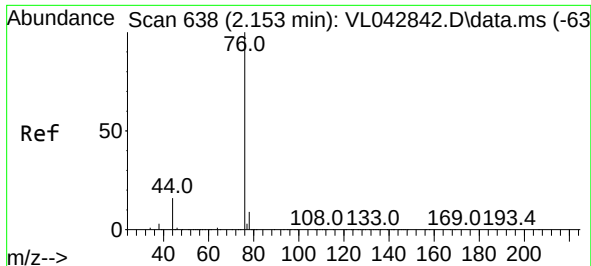
Tgt Ion:	43	Resp:	362325
Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.1	12.1
61	9.1	7.4	11.2
70	8.7	7.3	10.9



#26
Hexane
Concen: 9.246 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:	57	Resp:	167364
Ion	Ratio	Lower	Upper
57	100		
41	85.0	68.6	103.0
43	218.2	168.5	252.7
56	52.6	41.5	62.3

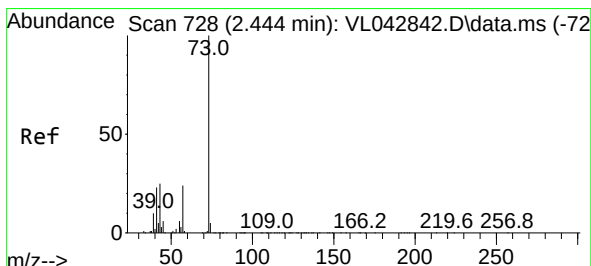
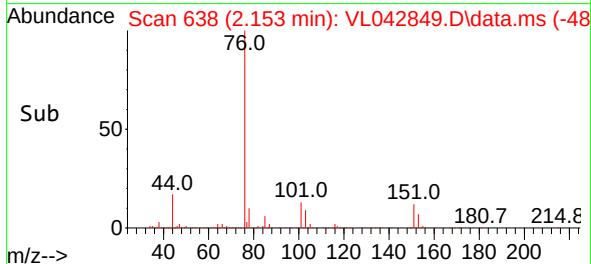
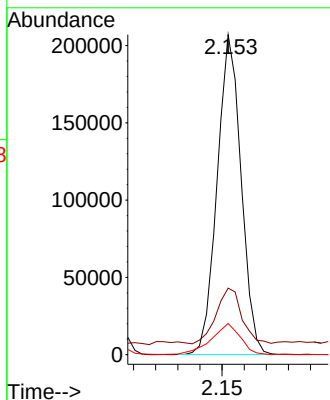
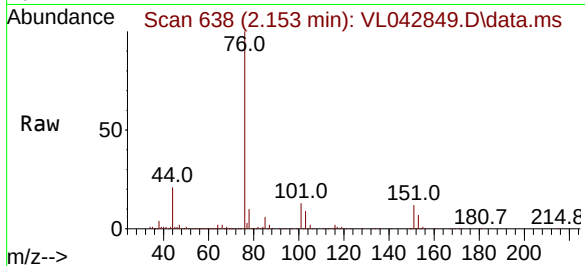




#27
Carbon Disulfide
Concen: 8.841 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

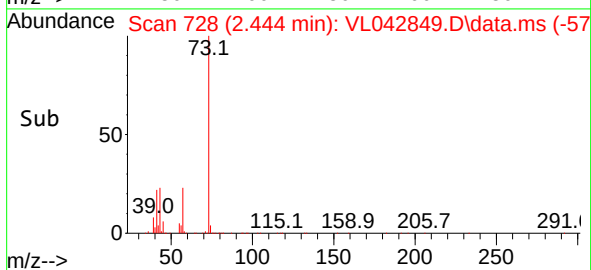
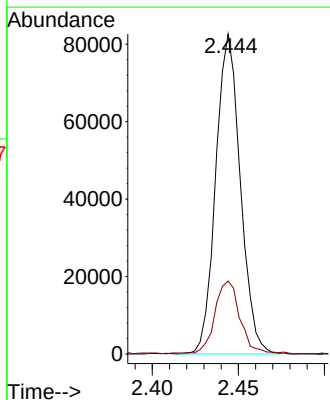
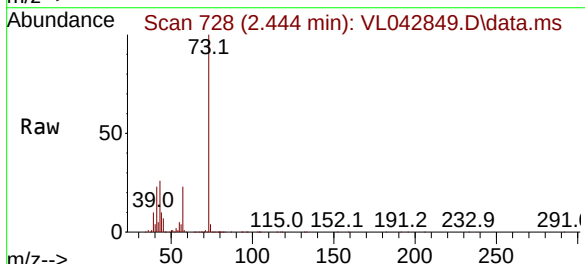
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

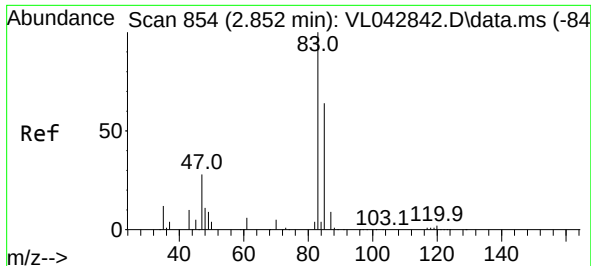
Tgt Ion: 76 Resp: 155729
Ion Ratio Lower Upper
76 100
44 19.2 15.9 23.9
78 11.9 9.5 14.3



#28
Methyl tert-Butyl Ether
Concen: 8.898 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 73 Resp: 82126
Ion Ratio Lower Upper
73 100
57 22.9 21.6 32.4





#29

Chloroform

Concen: 9.377 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

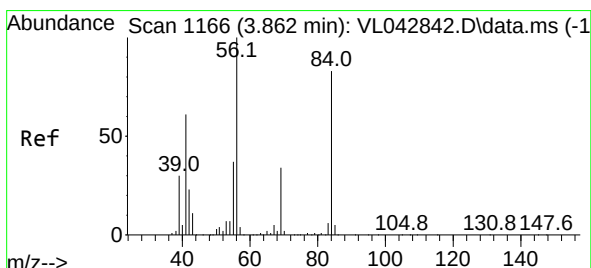
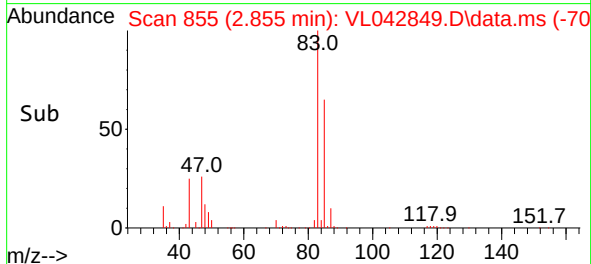
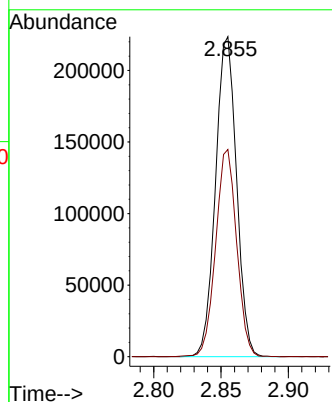
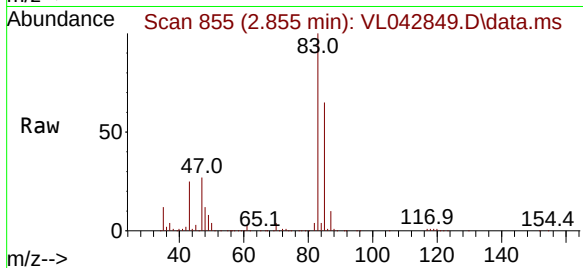
ICVVL081325

Tgt Ion: 83 Resp: 242320

Ion Ratio Lower Upper

83 100

85 64.8 51.1 76.7



#30

Cyclohexane

Concen: 9.289 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

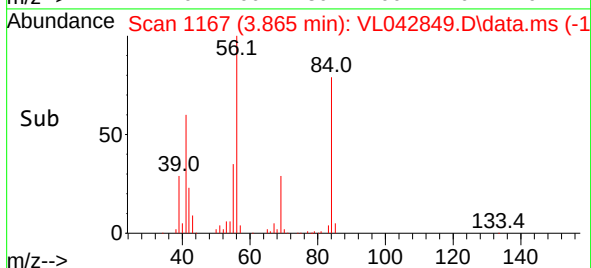
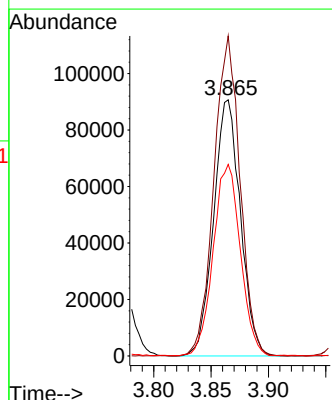
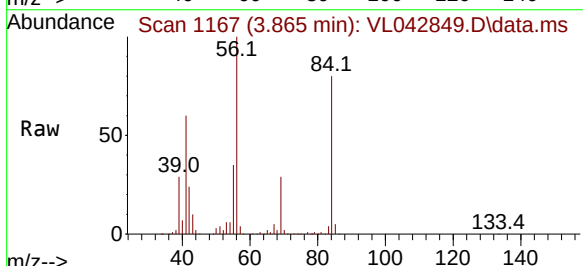
Tgt Ion: 84 Resp: 147417

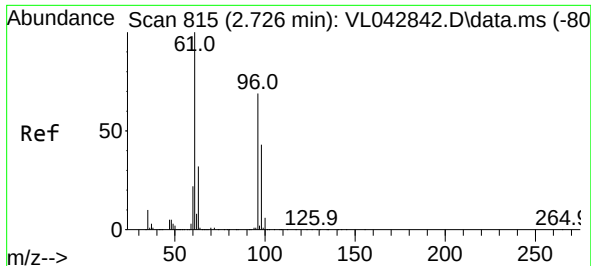
Ion Ratio Lower Upper

84 100

56 122.1 98.8 148.2

41 75.8 61.3 91.9

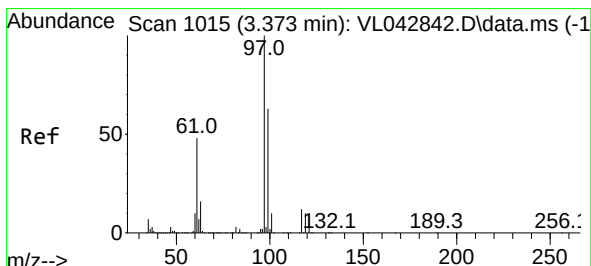
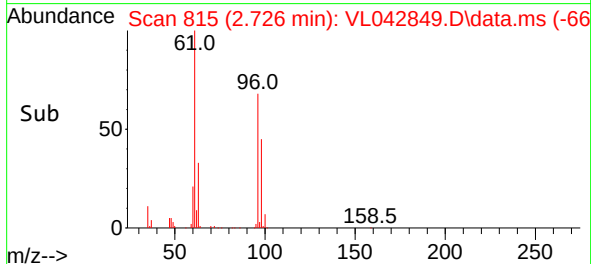
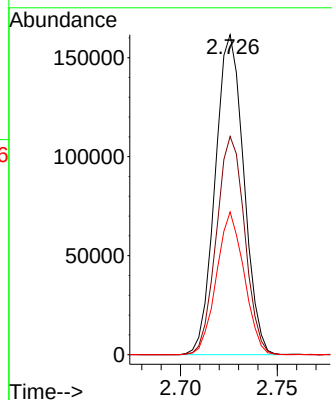
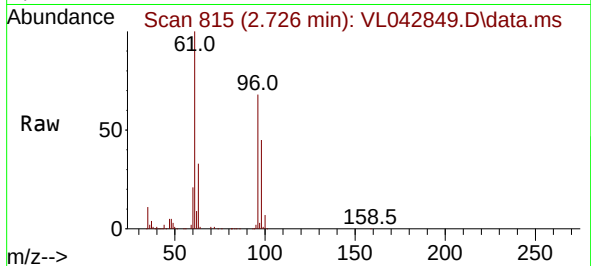




#31
 cis-1,2-Dichloroethene
 Concen: 9.196 ppbv
 RT: 2.726 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

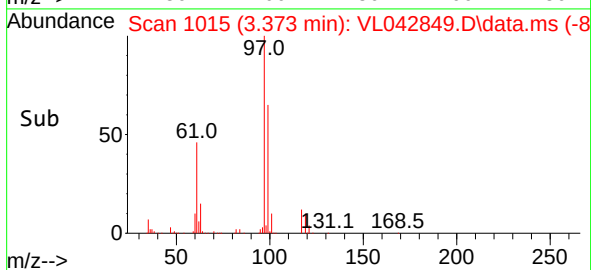
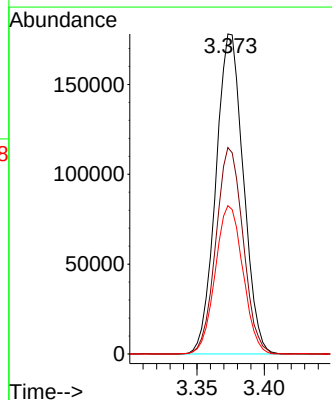
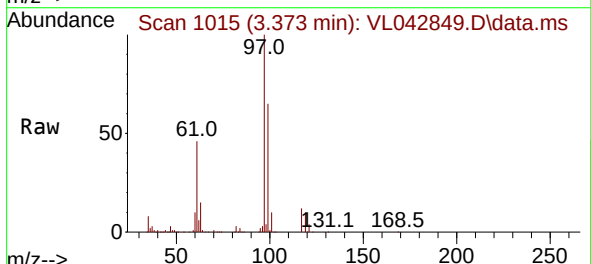
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

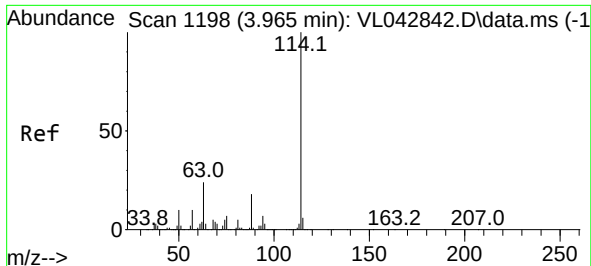
Tgt Ion: 61 Resp: 166268
 Ion Ratio Lower Upper
 61 100
 96 68.2 55.0 82.6
 98 44.5 34.3 51.5



#32
 1,1,1-Trichloroethane
 Concen: 9.256 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Tgt Ion: 97 Resp: 252813
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.0 76.6
 61 46.7 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

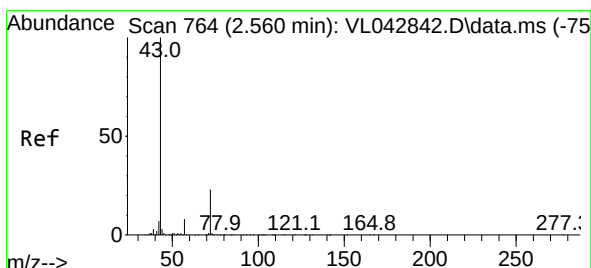
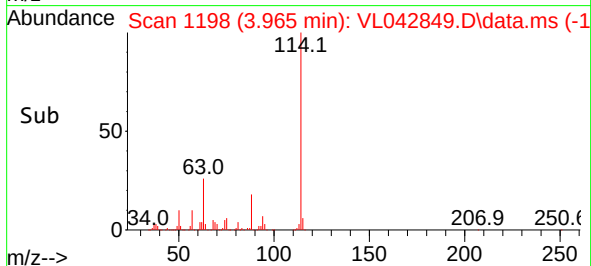
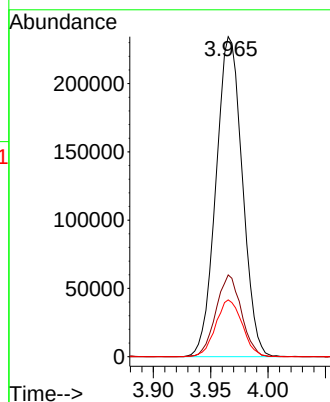
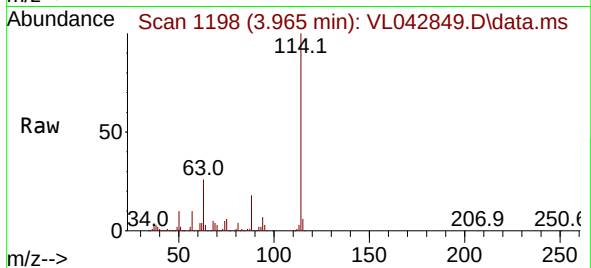
Tgt Ion:114 Resp: 374448

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

88 17.9 14.4 21.6



#34

2-Butanone

Concen: 9.135 ppbv

RT: 2.561 min Scan# 764

Delta R.T. 0.000 min

Lab File: VL042849.D

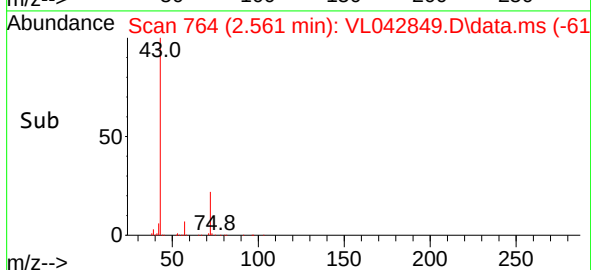
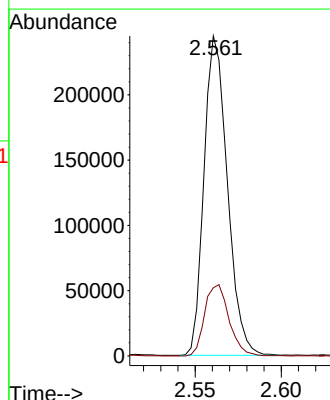
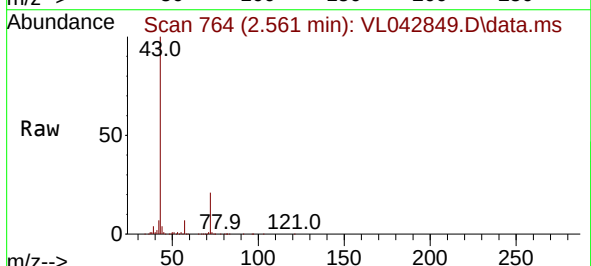
Acq: 13 Aug 2025 12:56

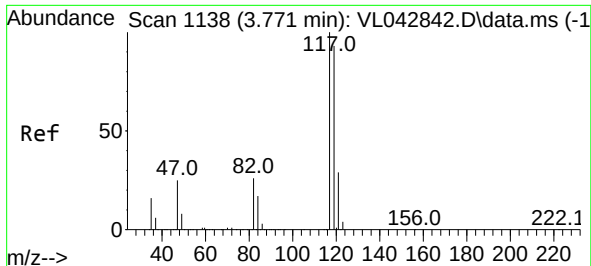
Tgt Ion: 43 Resp: 230961

Ion Ratio Lower Upper

43 100

72 23.4 18.6 28.0

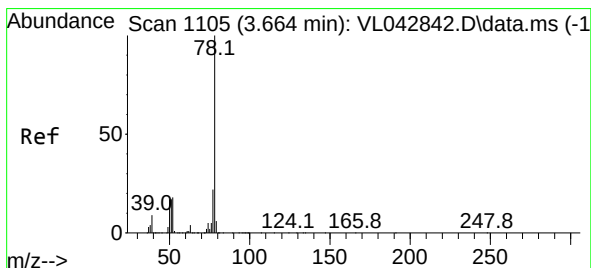
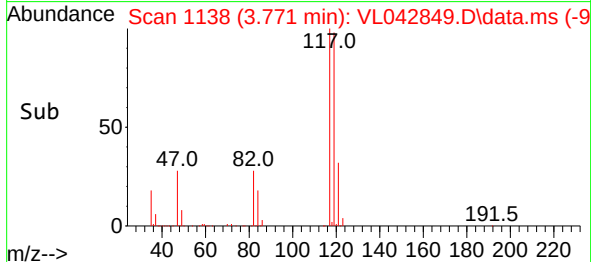
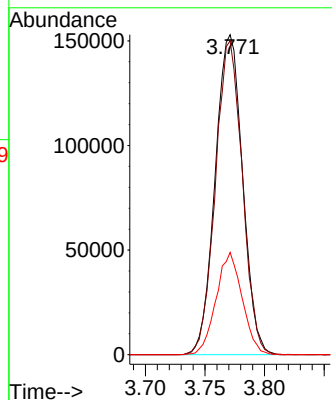
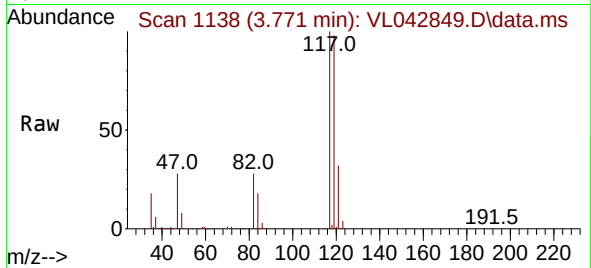




#35
Carbon Tetrachloride
Concen: 9.478 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

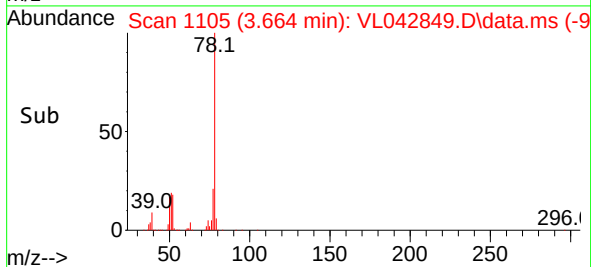
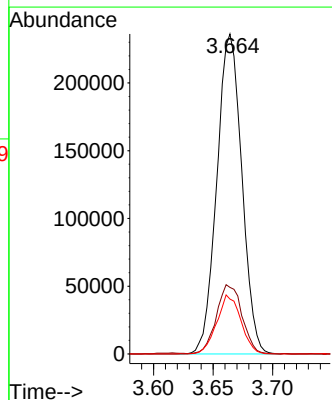
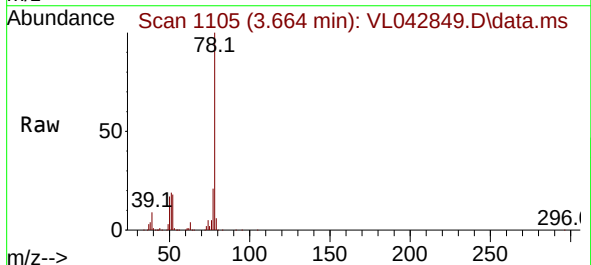
Instrument : MSVOA_L
ClientSampleId : ICVVL081325

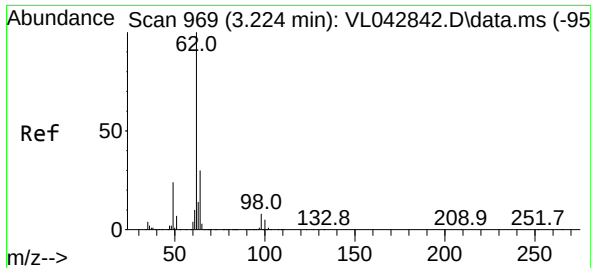
Tgt Ion:117 Resp: 244671
Ion Ratio Lower Upper
117 100
119 98.1 74.7 112.1
121 32.0 23.2 34.8



#36
Benzene
Concen: 9.592 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 78 Resp: 343952
Ion Ratio Lower Upper
78 100
77 20.8 17.7 26.5
50 17.1 13.9 20.9

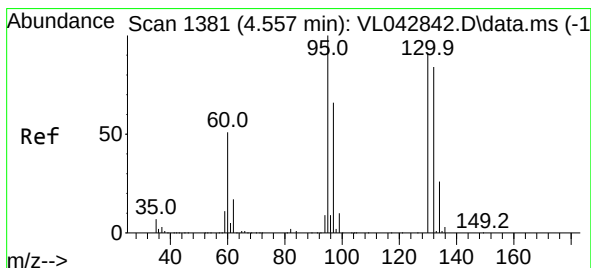
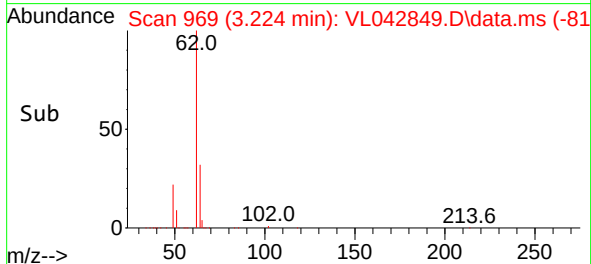
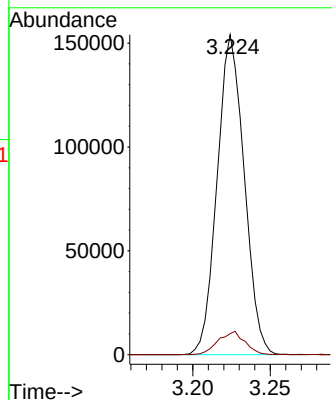
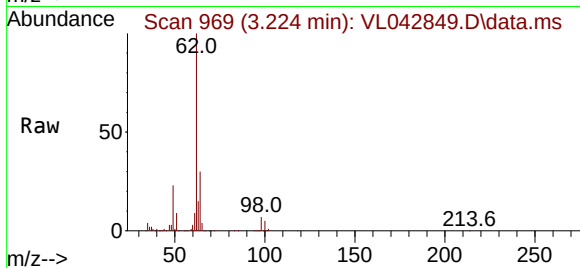




#37
1,2-Dichloroethane
Concen: 9.991 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

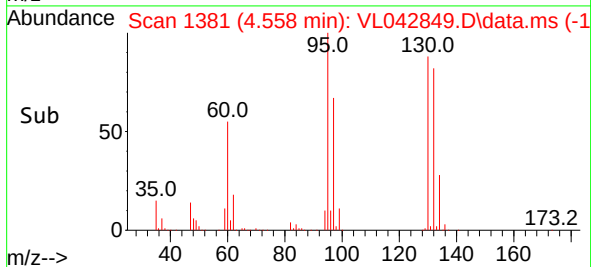
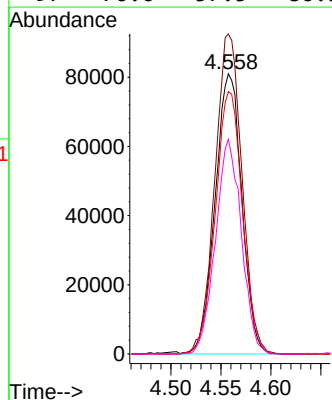
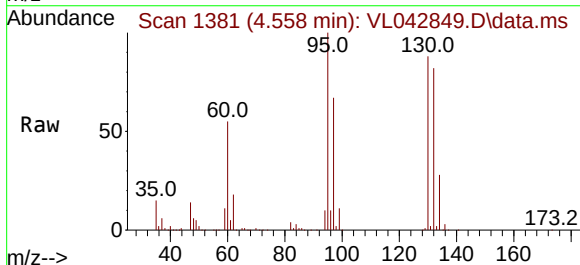
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

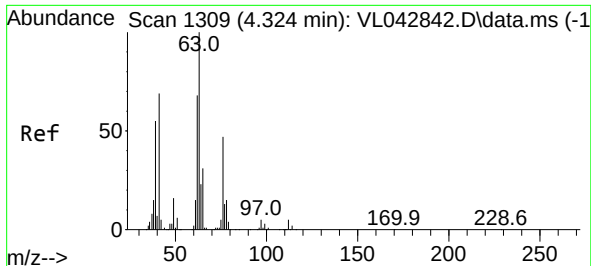
Tgt Ion: 62 Resp: 187160
Ion Ratio Lower Upper
62 100
98 7.2 5.9 8.9



#38
Trichloroethene
Concen: 9.202 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 130 Resp: 150693
Ion Ratio Lower Upper
130 100
95 114.2 87.6 131.4
132 93.6 73.8 110.8
97 76.6 57.5 86.3





#39

1,2-Dichloropropane

Concen: 9.436 ppbv

RT: 4.324 min Scan# 1309

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

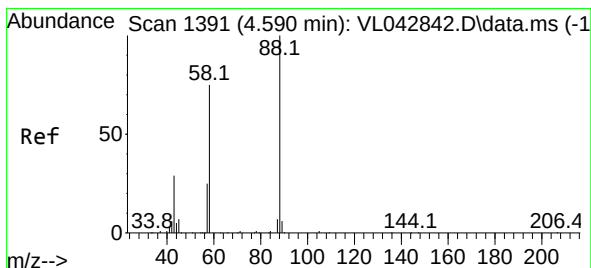
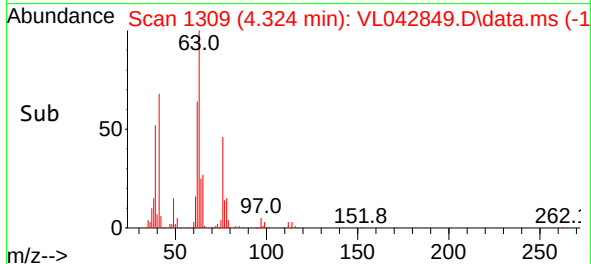
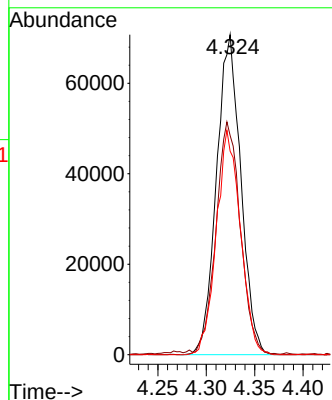
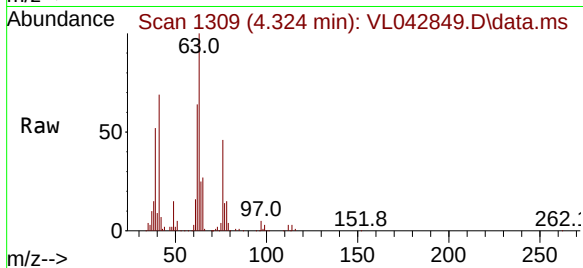
Tgt Ion: 63 Resp: 123566

Ion Ratio Lower Upper

63 100

41 68.4 55.0 82.4

62 63.6 54.4 81.6



#40

1,4-Dioxane

Concen: 8.879 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Tgt Ion: 88 Resp: 55292

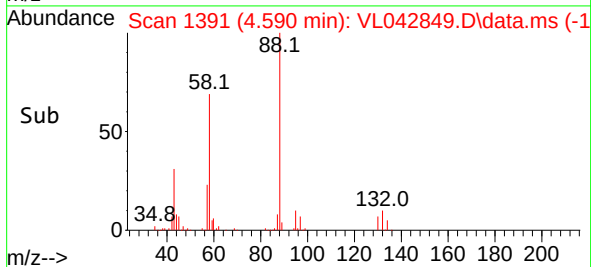
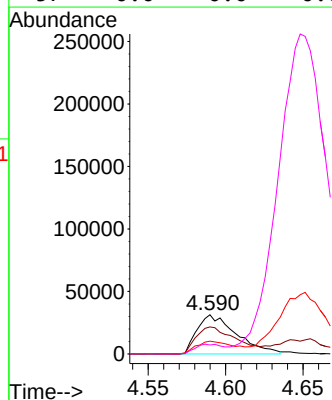
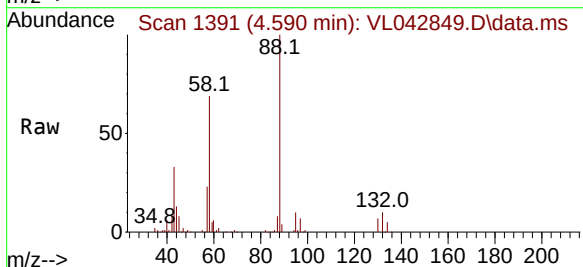
Ion Ratio Lower Upper

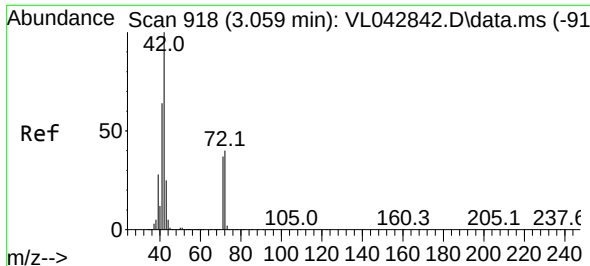
88 100

58 72.7 53.8 80.6

43 32.4 22.8 34.2

57 0.0 0.0 0.0

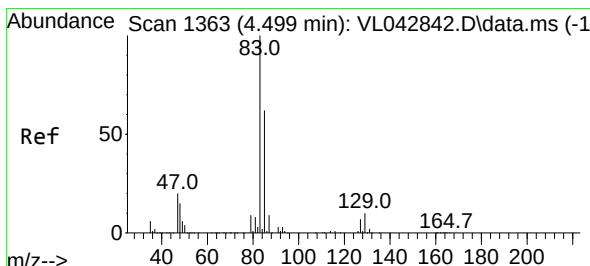
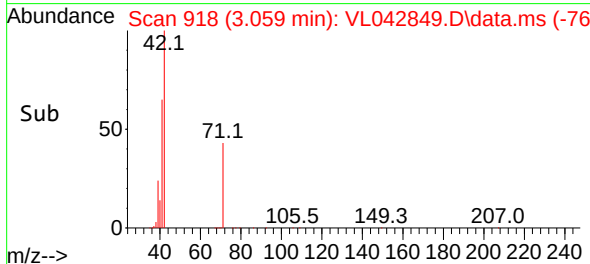
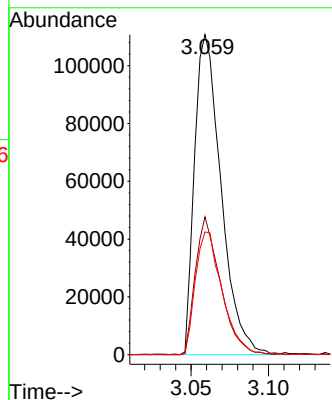
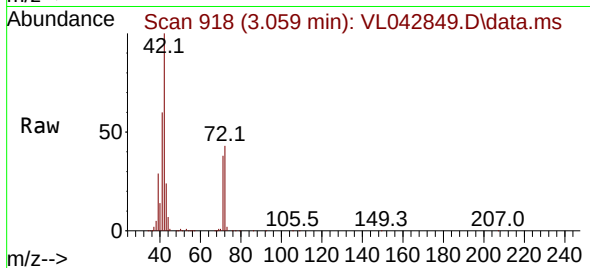




#41
Tetrahydrofuran
Concen: 9.372 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

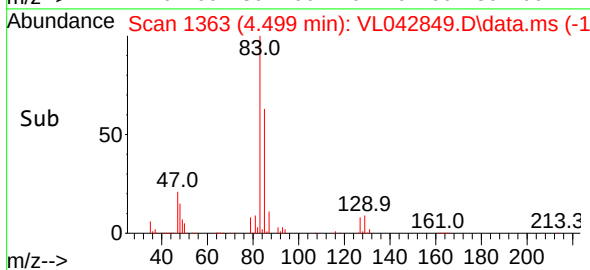
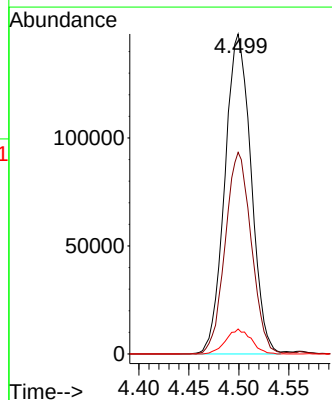
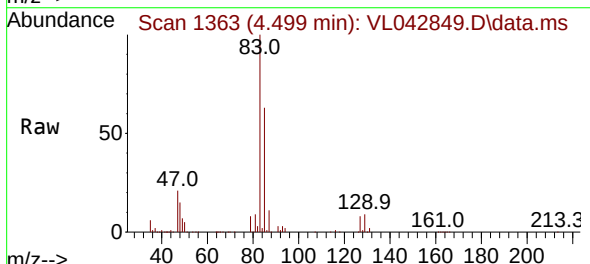
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

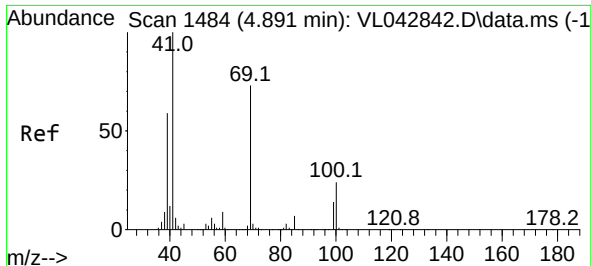
Tgt Ion: 42 Resp: 132108
Ion Ratio Lower Upper
42 100
72 40.8 32.6 48.8
71 39.0 30.0 45.0



#42
Bromodichloromethane
Concen: 9.678 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 83 Resp: 270154
Ion Ratio Lower Upper
83 100
85 63.0 49.8 74.8
127 7.8 5.8 8.6

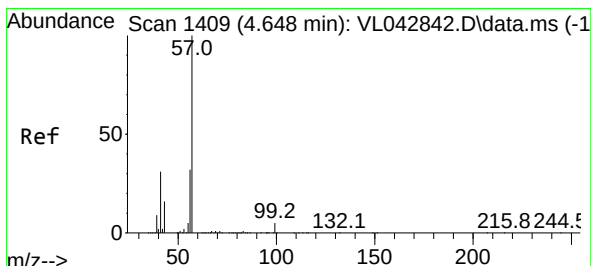
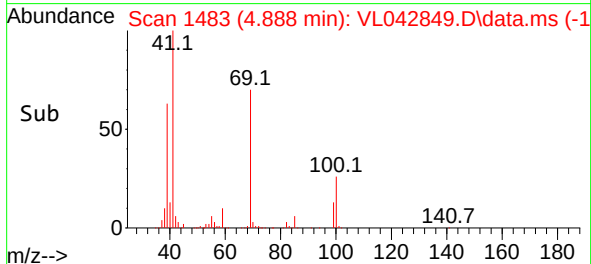
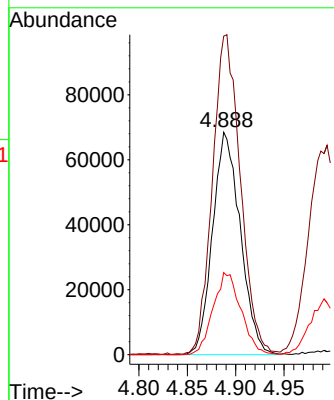
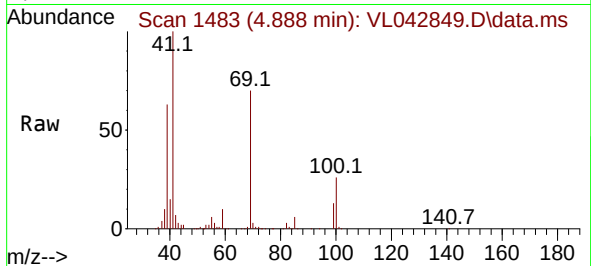




#43
Methyl Methacrylate
Concen: 9.229 ppbv
RT: 4.888 min Scan# 1483
Delta R.T. -0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

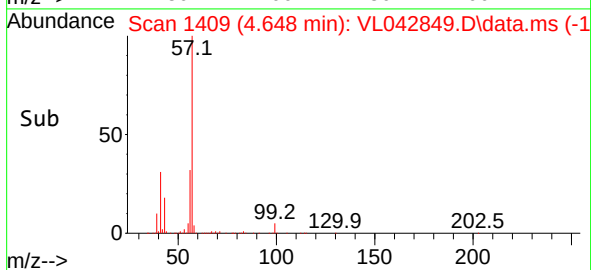
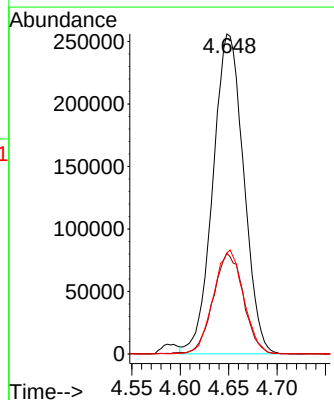
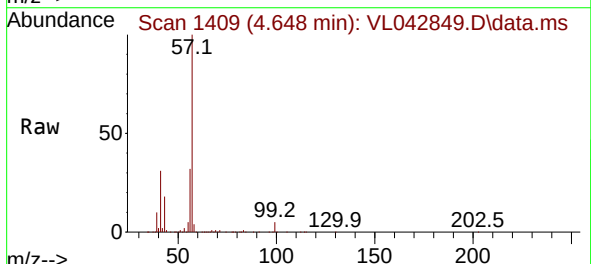
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

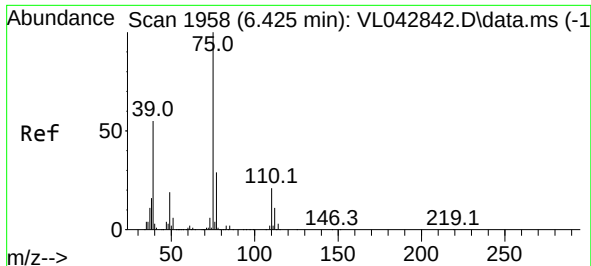
Tgt Ion: 69 Resp: 136329
Ion Ratio Lower Upper
69 100
41 144.9 114.6 172.0
100 37.0 30.2 45.4



#44
2,2,4-Trimethylpentane
Concen: 9.290 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 57 Resp: 565415
Ion Ratio Lower Upper
57 100
41 31.3 24.8 37.2
56 31.9 25.5 38.3





#45

t-1,3-Dichloropropene

Concen: 9.645 ppbv

RT: 6.428 min Scan# 1958

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

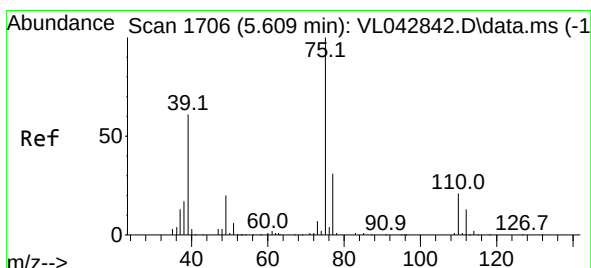
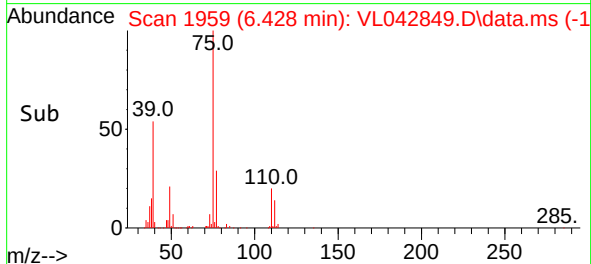
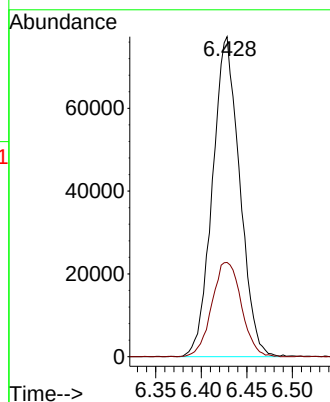
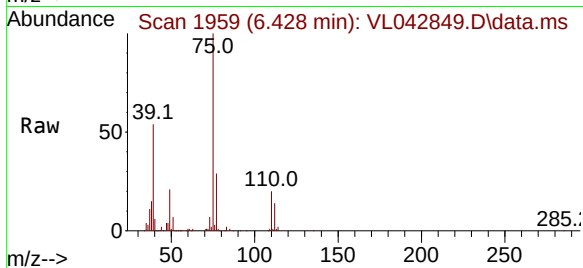
ICVVL081325

Tgt Ion: 75 Resp: 160784

Ion Ratio Lower Upper

75 100

77 29.5 23.8 35.6



#46

cis-1,3-Dichloropropene

Concen: 5.200 ppbv

RT: 5.613 min Scan# 1707

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

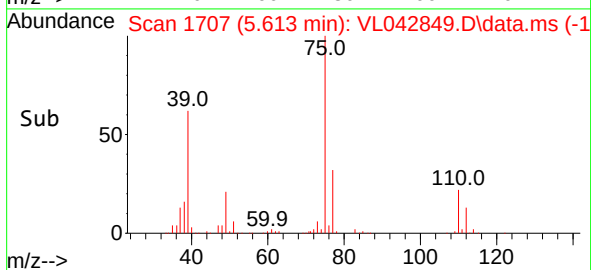
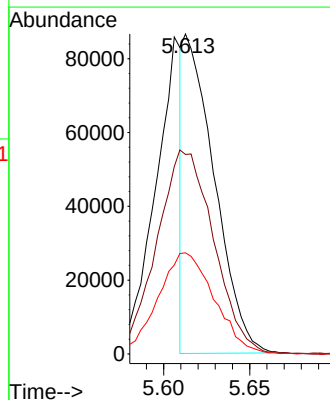
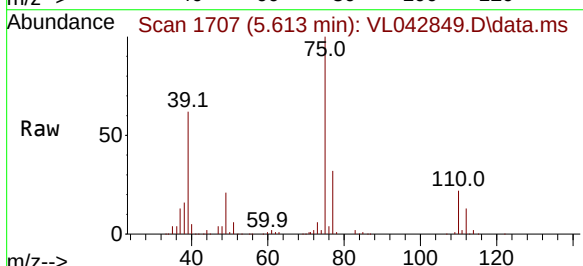
Tgt Ion: 75 Resp: 108009

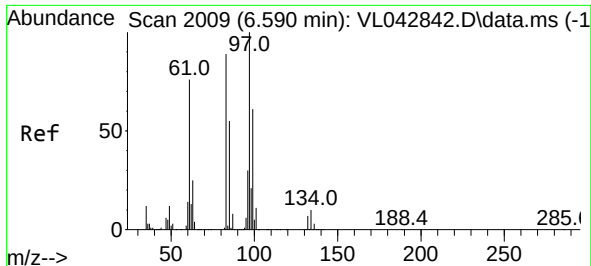
Ion Ratio Lower Upper

75 100

39 62.2 48.9 73.3

77 31.6 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 9.553 ppbv

RT: 6.597 min Scan# 2009

Delta R.T. 0.007 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

Tgt Ion: 97 Resp: 132548

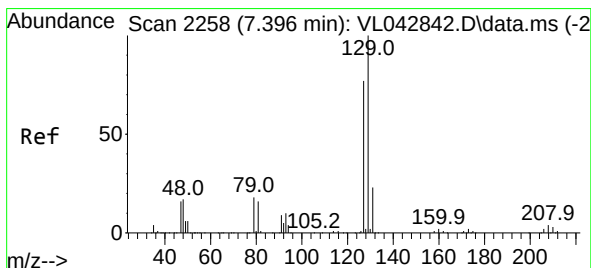
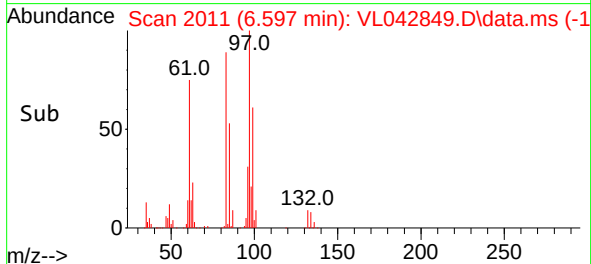
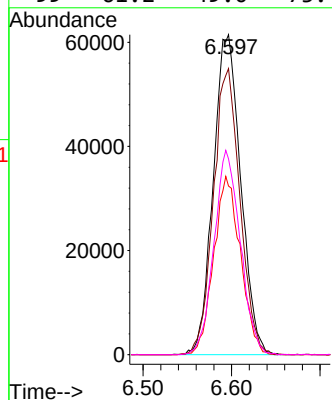
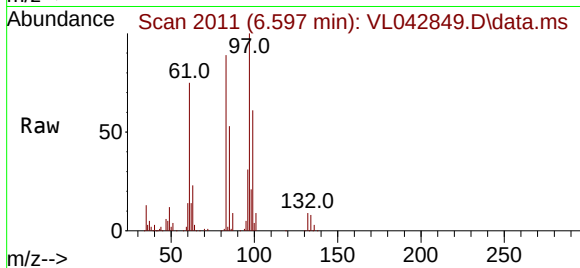
Ion Ratio Lower Upper

97 100

83 89.3 71.0 106.4

85 52.6 43.6 65.4

99 61.2 49.0 73.4



#48

Dibromochloromethane

Concen: 9.708 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.003 min

Lab File: VL042849.D

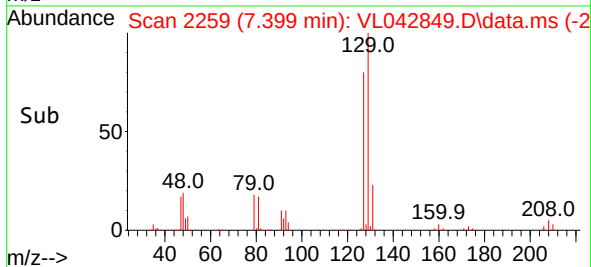
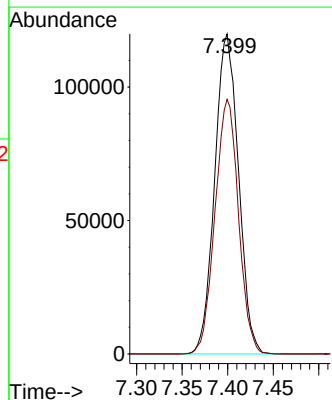
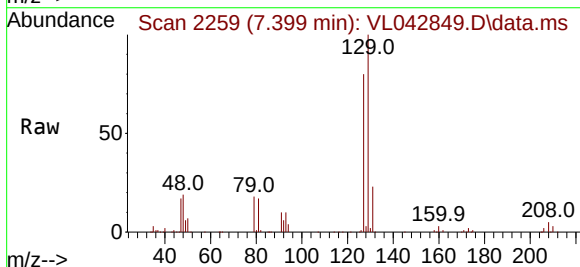
Acq: 13 Aug 2025 12:56

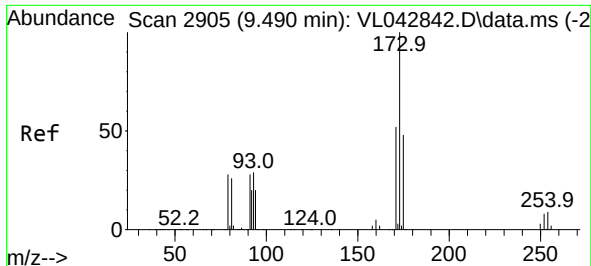
Tgt Ion: 129 Resp: 217970

Ion Ratio Lower Upper

129 100

127 78.5 39.4 118.2





#49

Bromoform

Concen: 9.446 ppbv

RT: 9.493 min Scan# 2905

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

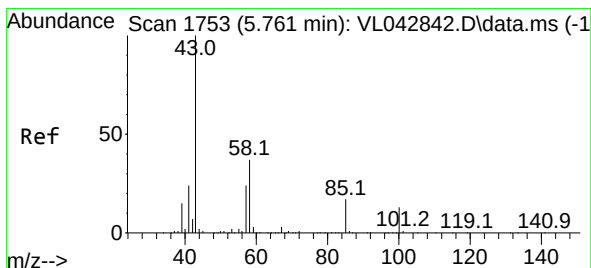
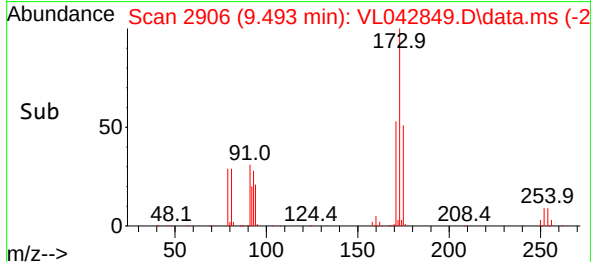
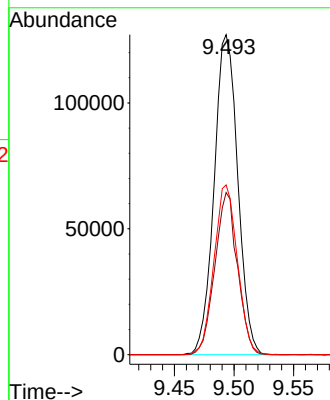
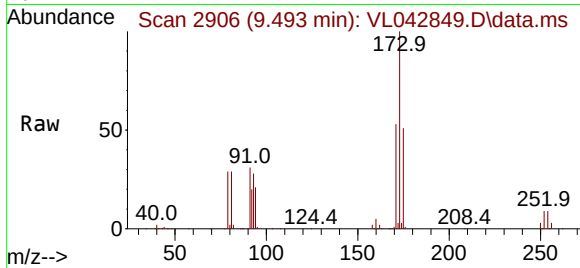
Tgt Ion:173 Resp: 174914

Ion Ratio Lower Upper

173 100

175 48.4 39.2 58.8

171 52.6 41.3 61.9



#50

4-Methyl-2-Pentanone

Concen: 9.430 ppbv

RT: 5.765 min Scan# 1754

Delta R.T. 0.003 min

Lab File: VL042849.D

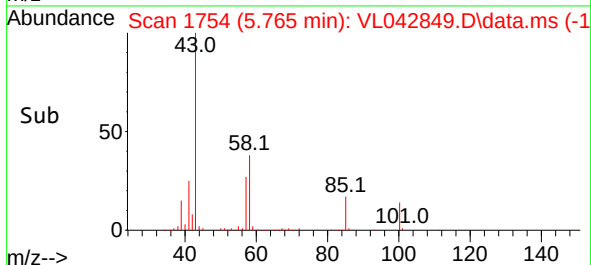
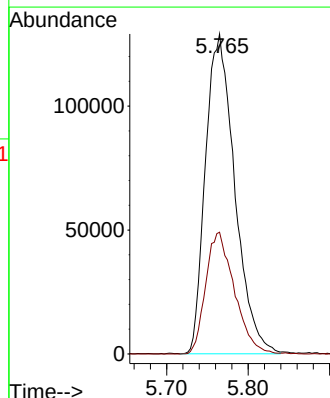
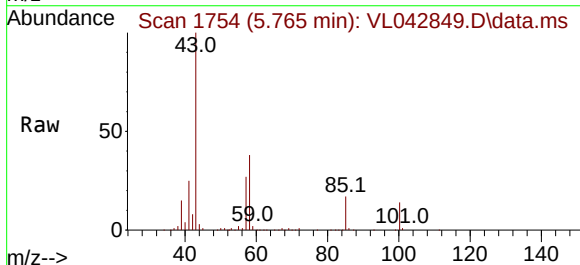
Acq: 13 Aug 2025 12:56

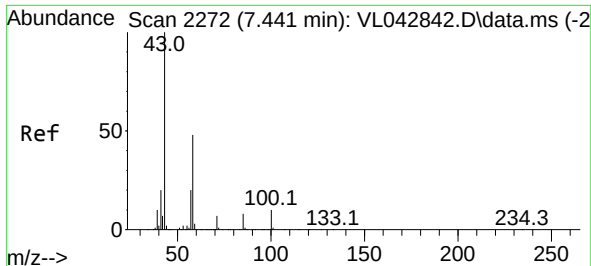
Tgt Ion: 43 Resp: 322264

Ion Ratio Lower Upper

43 100

58 37.3 29.8 44.8

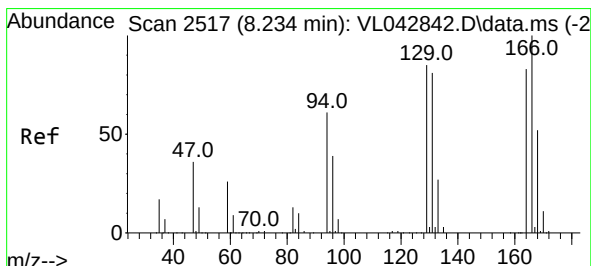
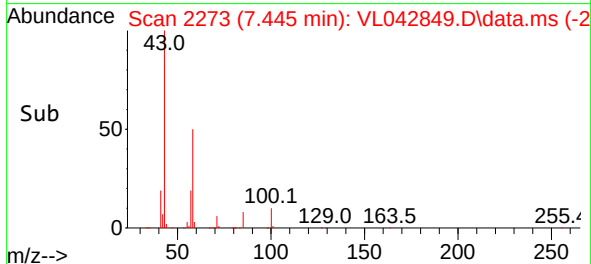
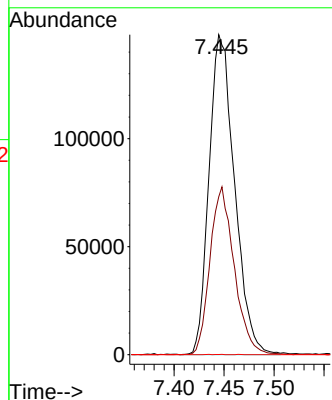
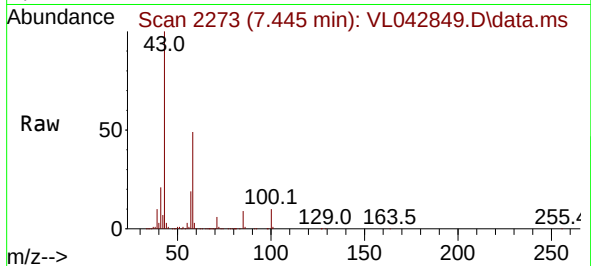




#51
2-Hexanone
Concen: 9.791 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

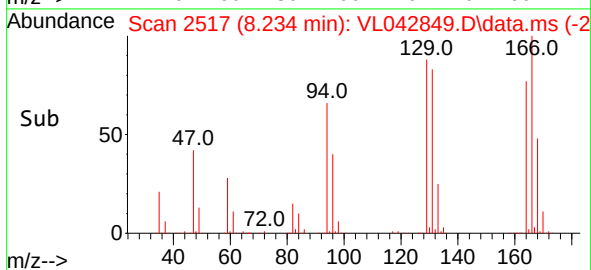
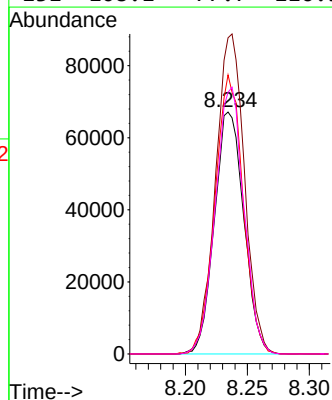
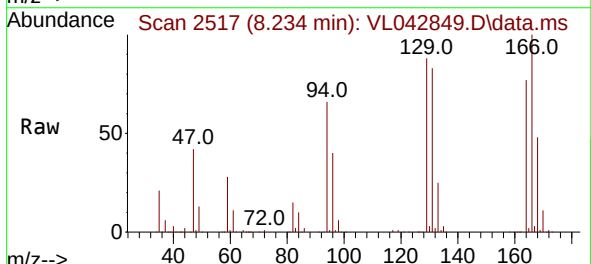
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

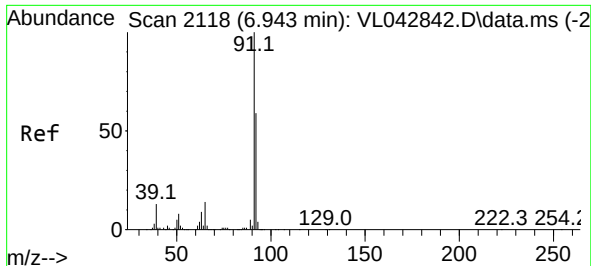
Tgt Ion: 43 Resp: 263321
Ion Ratio Lower Upper
43 100
58 49.9 41.0 61.6
98 0.1 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.544 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 164 Resp: 110828
Ion Ratio Lower Upper
164 100
166 130.6 96.5 144.7
129 115.3 81.8 122.6
131 108.1 77.7 116.5

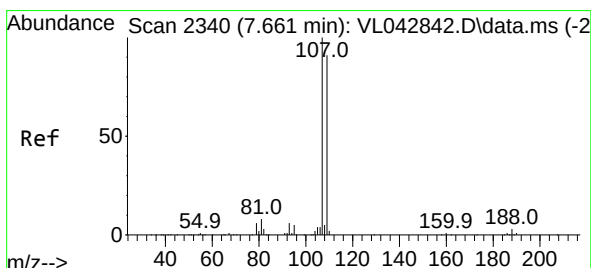
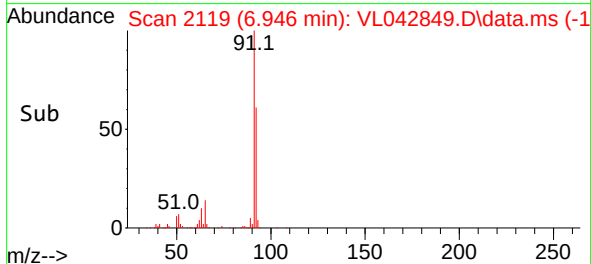
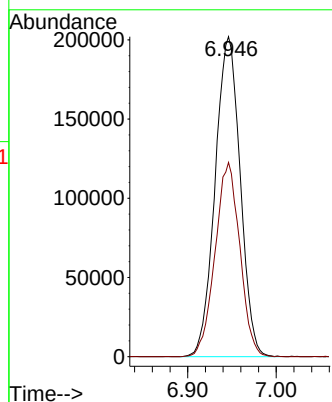
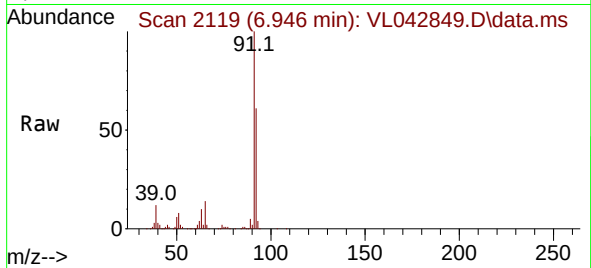




#53
Toluene
Concen: 9.340 ppbv
RT: 6.946 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

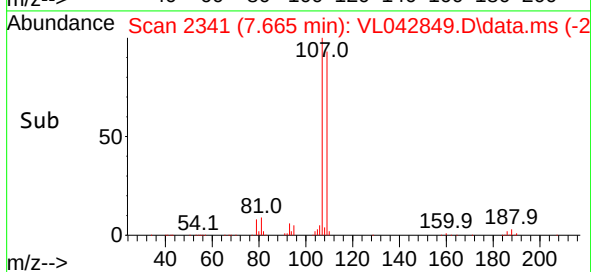
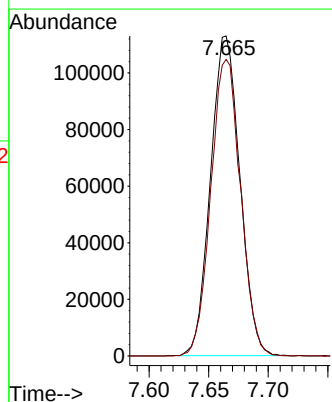
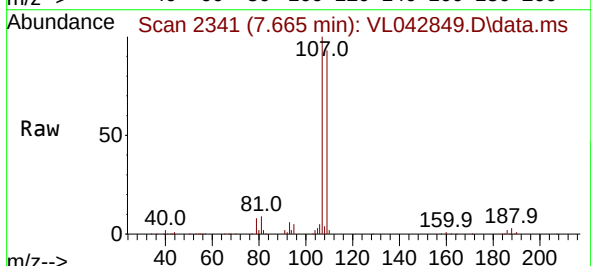
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

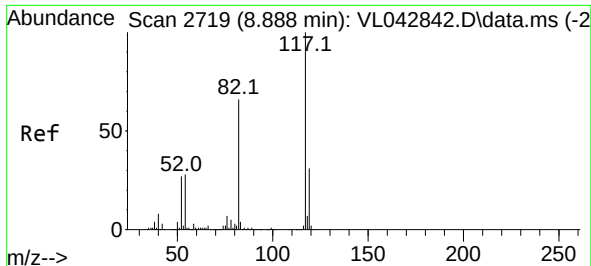
Tgt Ion: 91 Resp: 398138
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6



#54
1,2-Dibromoethane
Concen: 9.535 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 107 Resp: 193340
Ion Ratio Lower Upper
107 100
109 92.7 72.5 108.7

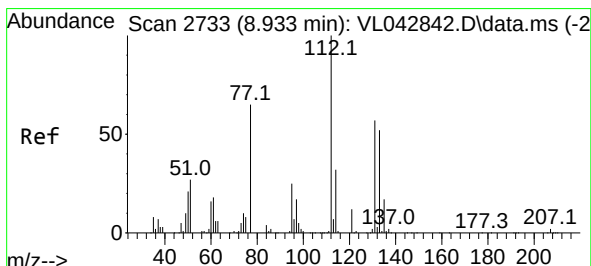
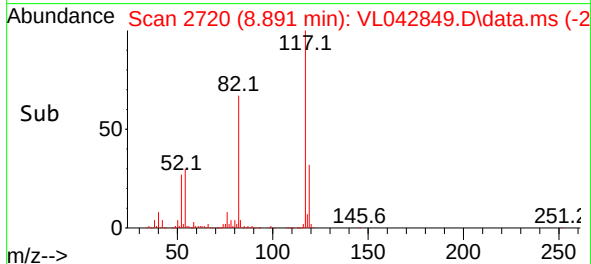
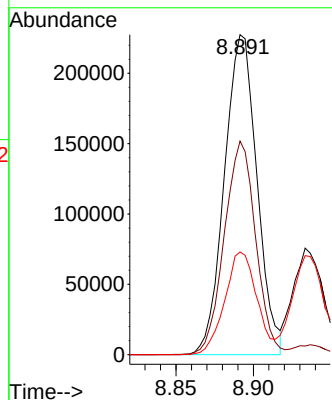
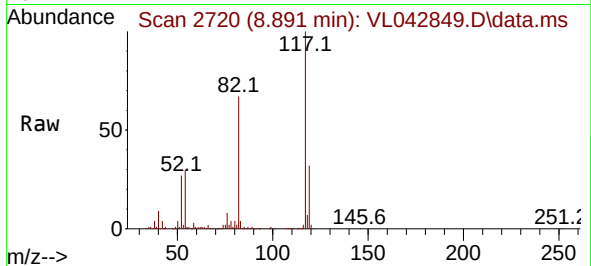




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

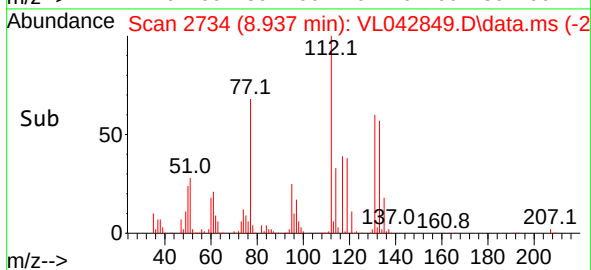
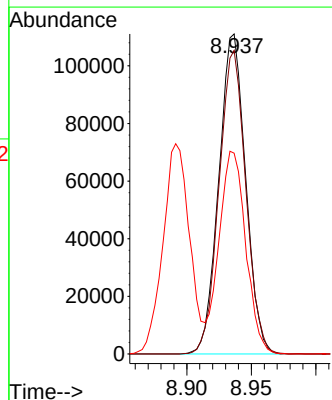
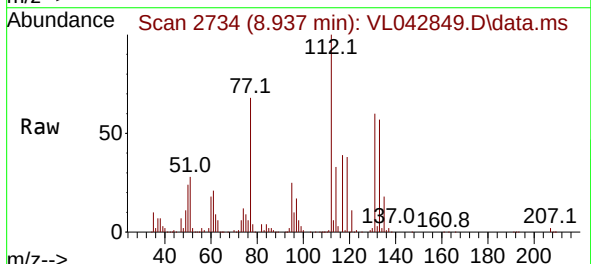
Instrument :
MSVOA_1
ClientSampleId :
ICVVL081325

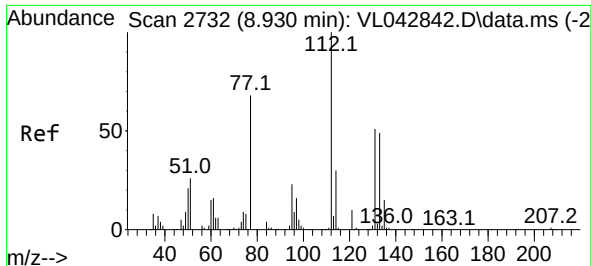
Tgt Ion:117 Resp: 333493
Ion Ratio Lower Upper
117 100
82 67.3 54.6 81.8
119 31.8 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 9.291 ppbv
RT: 8.937 min Scan# 2734
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:131 Resp: 160225
Ion Ratio Lower Upper
131 100
133 94.8 77.4 116.0
119 64.3 51.2 76.8

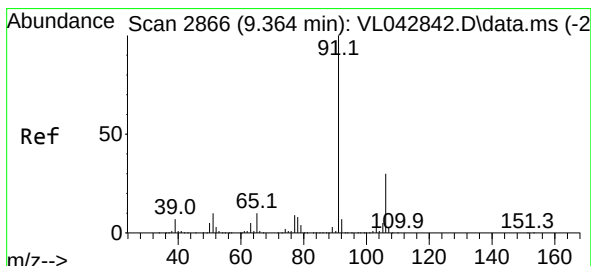
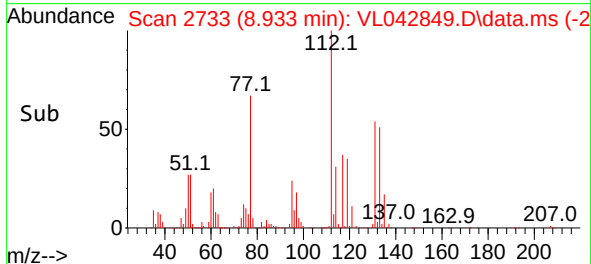
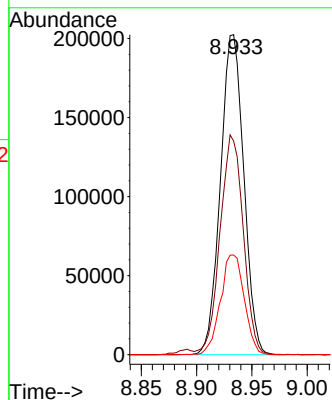
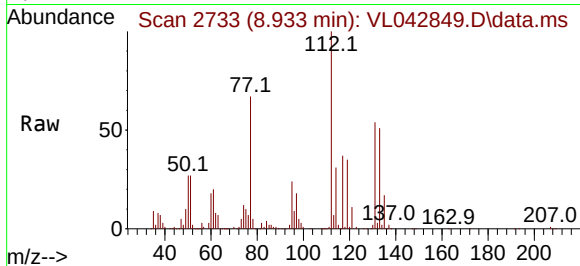




#57
Chlorobenzene
Concen: 9.378 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

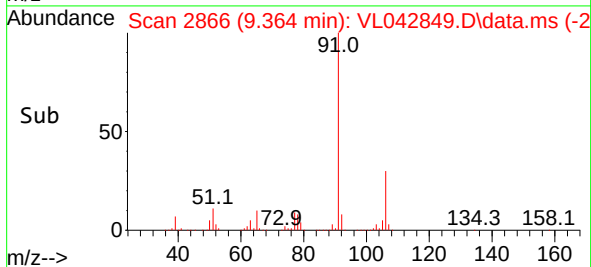
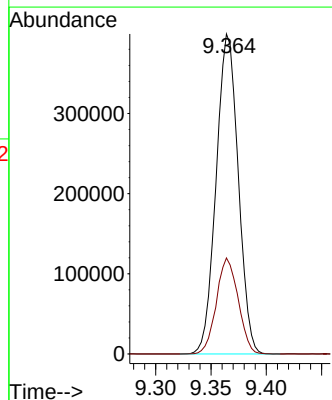
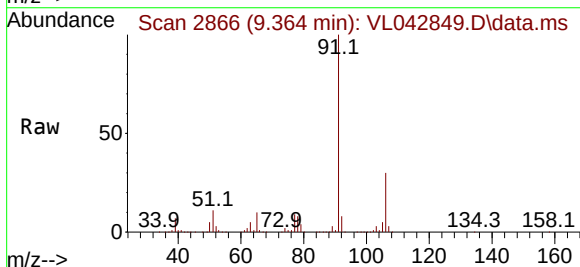
Instrument :
MSVOA_1
ClientSampleId :
ICVVL081325

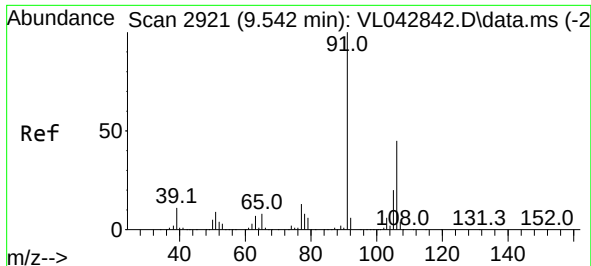
Tgt Ion:112 Resp: 297375
Ion Ratio Lower Upper
112 100
77 66.6 55.5 83.3
114 31.2 27.2 33.2



#58
Ethyl Benzene
Concen: 9.414 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 91 Resp: 554015
Ion Ratio Lower Upper
91 100
106 30.0 23.9 35.9





#59

m/p-Xylene

Concen: 10.029 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

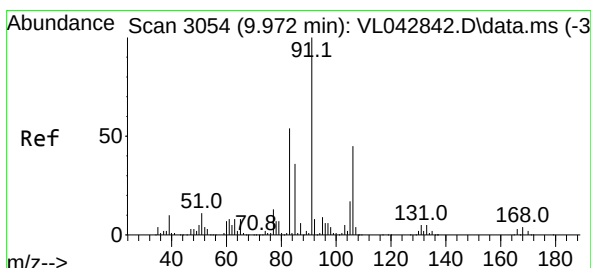
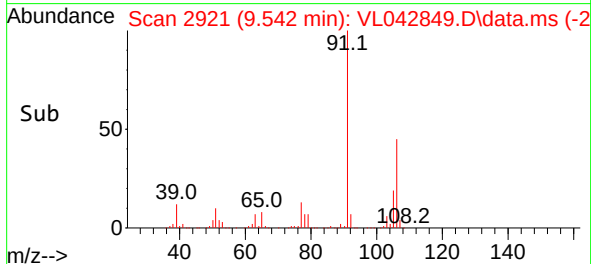
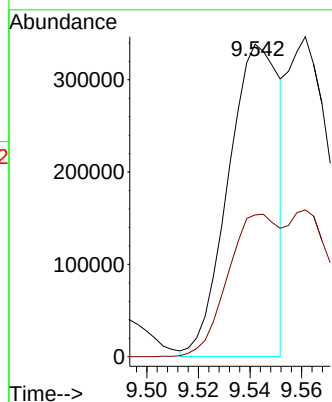
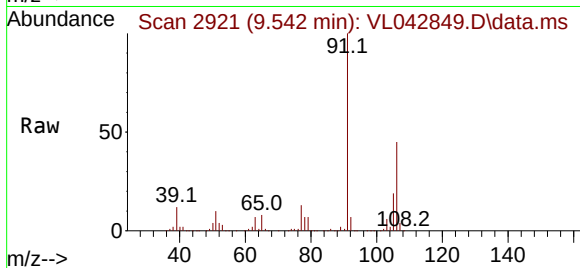
ICVVL081325

Tgt Ion: 91 Resp: 462620

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 9.239 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VL042849.D

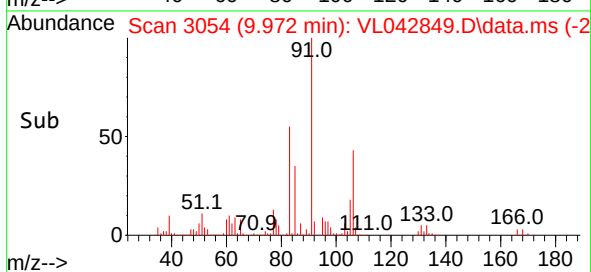
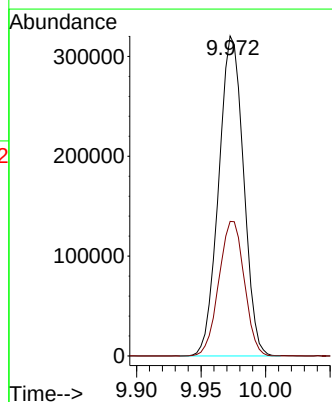
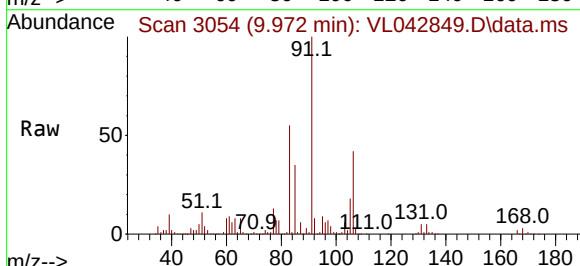
Acq: 13 Aug 2025 12:56

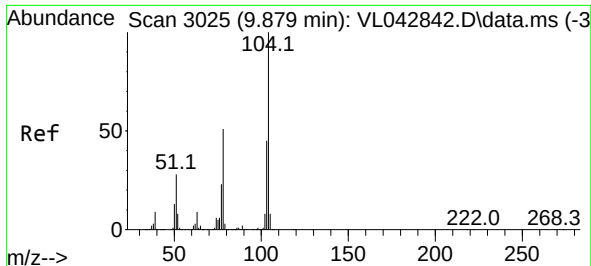
Tgt Ion: 91 Resp: 428721

Ion Ratio Lower Upper

91 100

106 43.0 21.8 65.4

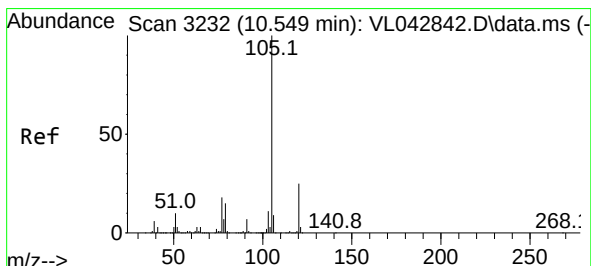
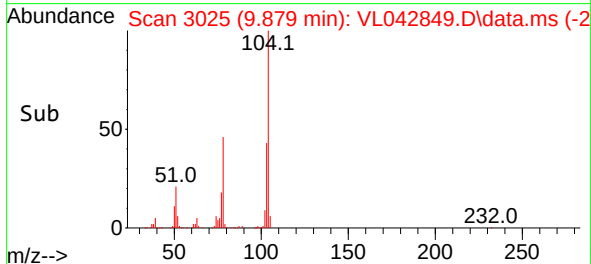
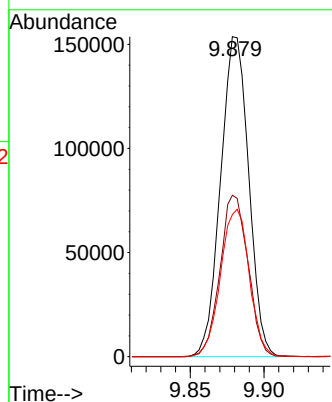
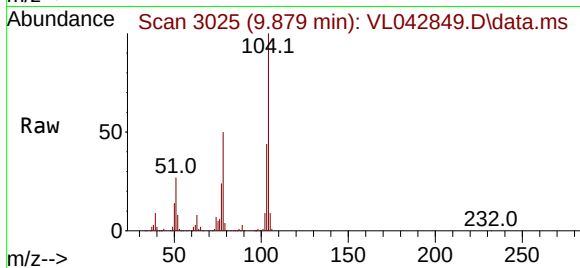




#61
Styrene
Concen: 9.377 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

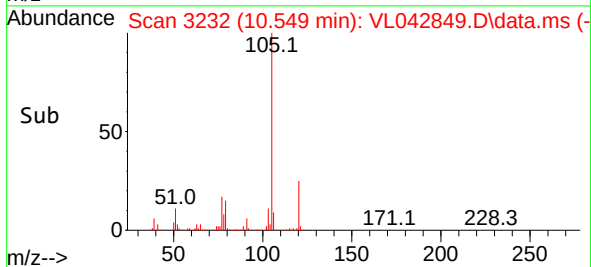
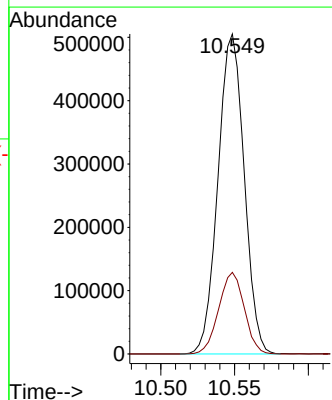
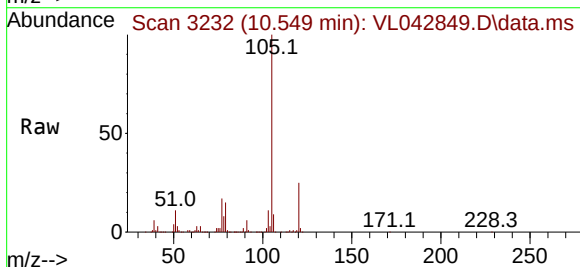
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

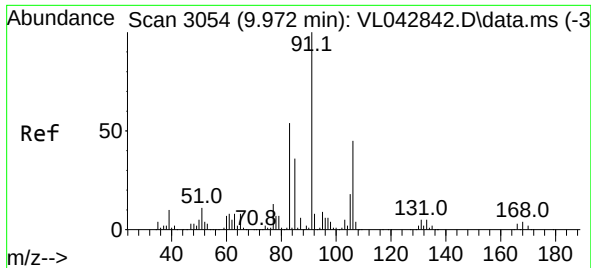
Tgt Ion:104 Resp: 203858
Ion Ratio Lower Upper
104 100
78 50.3 40.6 61.0
103 47.1 37.7 56.5



#62
Isopropylbenzene
Concen: 9.206 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:105 Resp: 624287
Ion Ratio Lower Upper
105 100
120 24.9 20.6 30.8

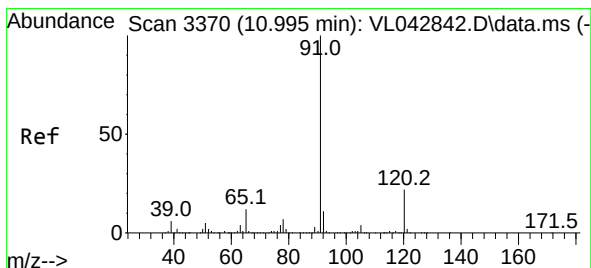
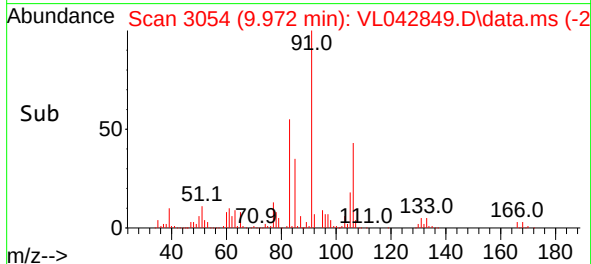
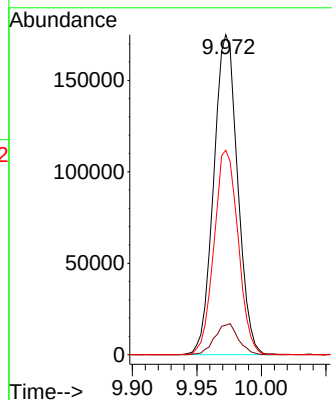
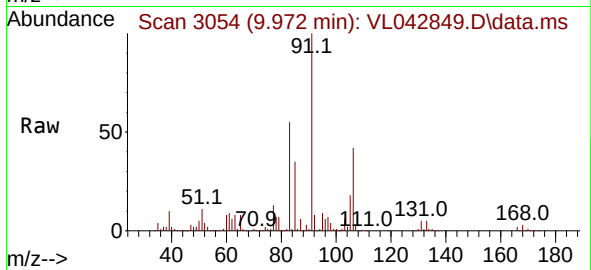




#63
1,1,2,2-Tetrachloroethane
Concen: 8.826 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

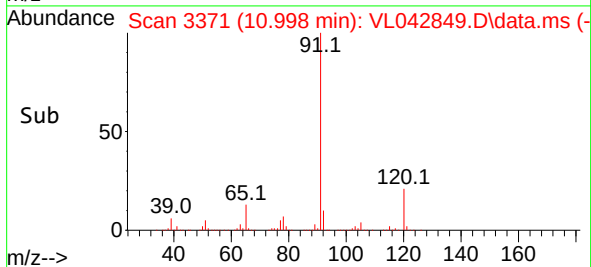
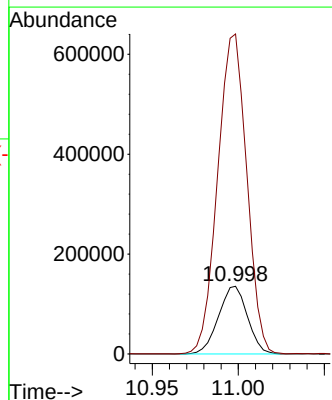
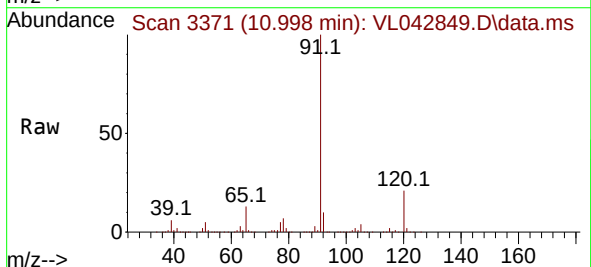
Instrument : MSVOA_1
ClientSampleId : ICVVL081325

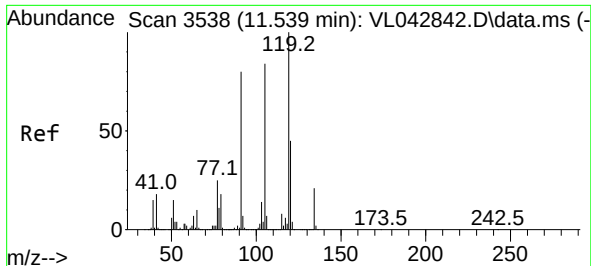
Tgt Ion: 83 Resp: 225237
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 64.4 32.3 96.8



#64
n-propylbenzene
Concen: 9.145 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 120 Resp: 158234
Ion Ratio Lower Upper
120 100
91 476.9 375.8 563.6

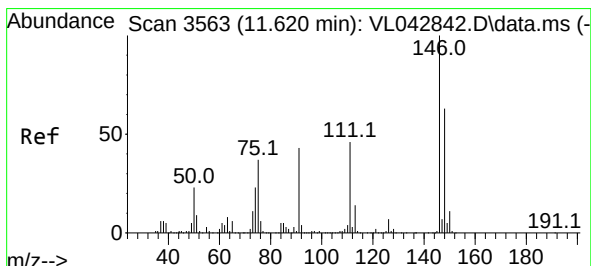
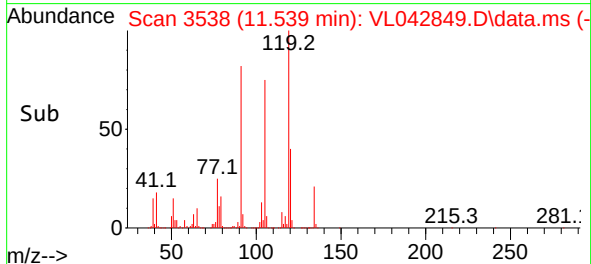
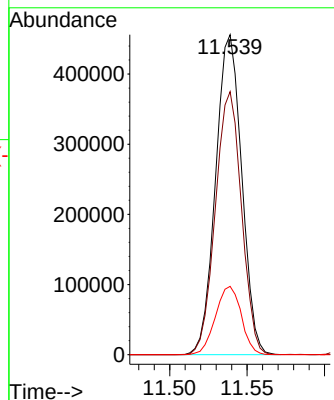
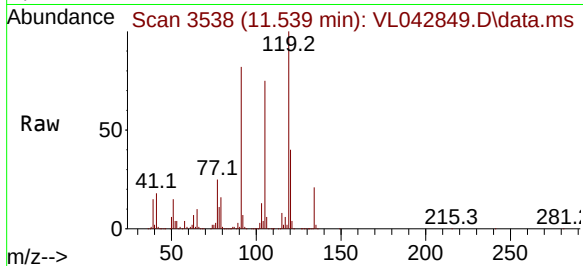




#65
 tert-Butylbenzene
 Concen: 8.946 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. 0.000 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

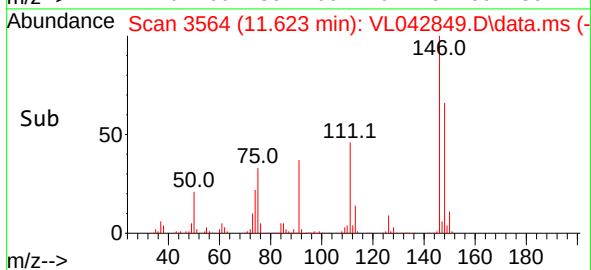
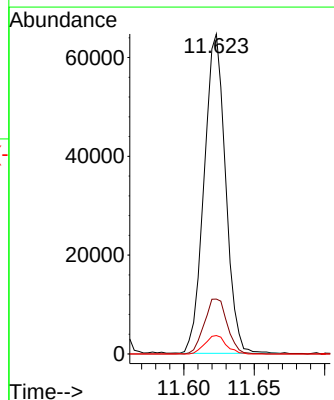
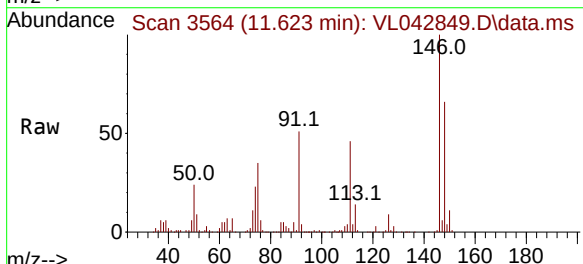
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

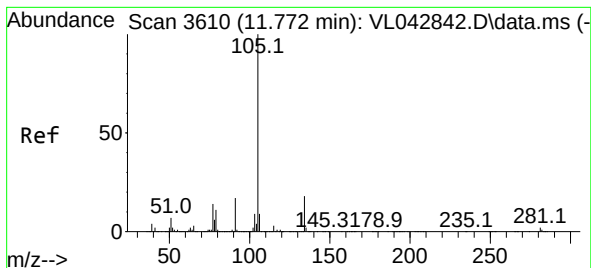
Tgt Ion:119 Resp: 534795
 Ion Ratio Lower Upper
 119 100
 91 82.2 63.9 95.9
 134 21.1 17.0 25.4



#66
 Benzyl Chloride
 Concen: 9.031 ppbv
 RT: 11.623 min Scan# 3564
 Delta R.T. 0.003 min
 Lab File: VL042849.D
 Acq: 13 Aug 2025 12:56

Tgt Ion: 91 Resp: 68533
 Ion Ratio Lower Upper
 91 100
 126 18.4 14.2 21.4
 128 5.7 5.0 7.6





#67

sec-Butylbenzene

Concen: 9.088 ppbv

RT: 11.775 min Scan# 3610

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_1

ClientSampleId :

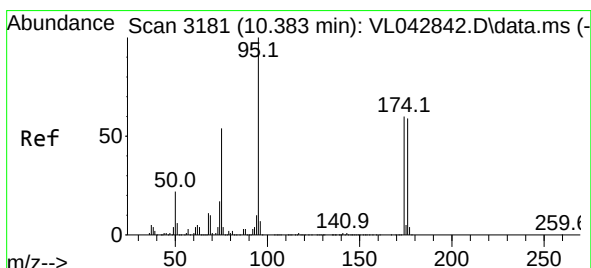
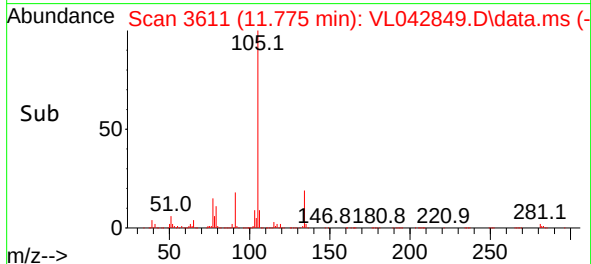
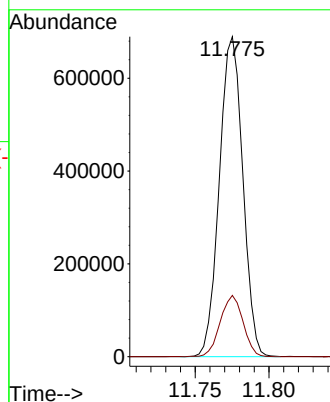
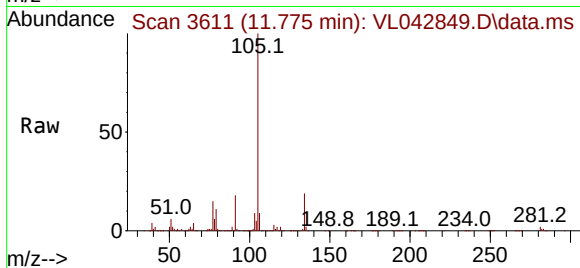
ICVVL081325

Tgt Ion:105 Resp: 762602

Ion Ratio Lower Upper

105 100

134 18.6 14.9 22.3



#68

1-Bromo-4-Fluorobenzene

Concen: 10.086 ppbv

RT: 10.383 min Scan# 3181

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

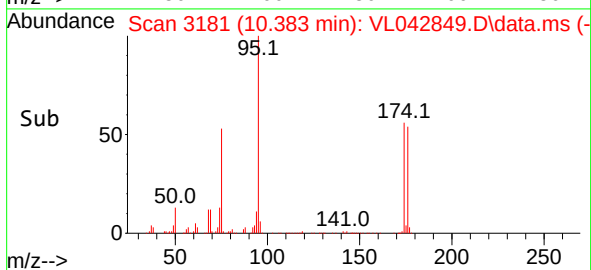
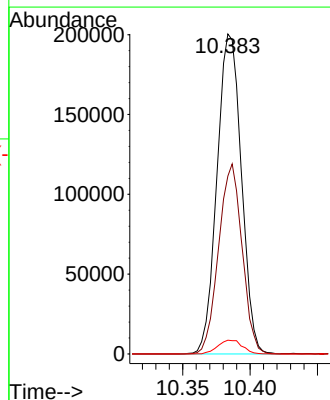
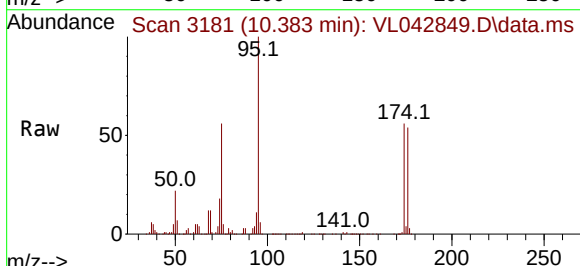
Tgt Ion: 95 Resp: 252268

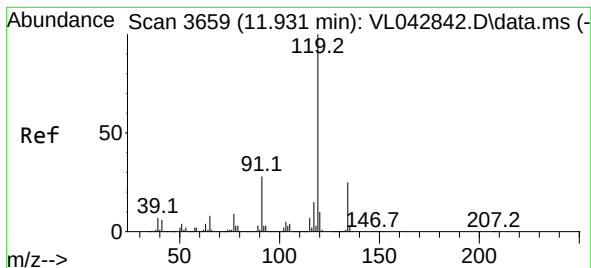
Ion Ratio Lower Upper

95 100

174 57.2 48.4 72.6

175 4.4 3.8 5.8





#69

p-Isopropyltoluene

Concen: 8.810 ppbv

RT: 11.934 min Scan# 3660

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

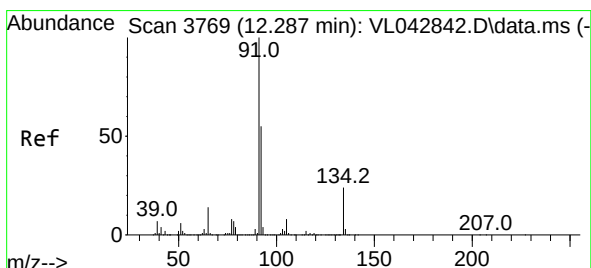
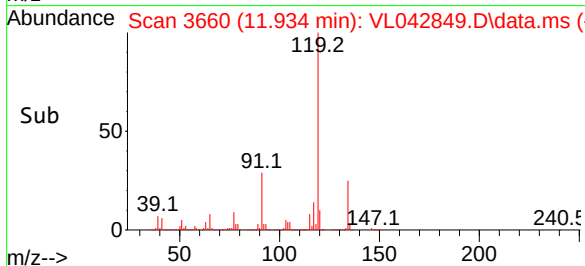
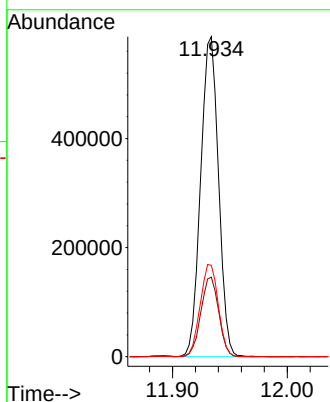
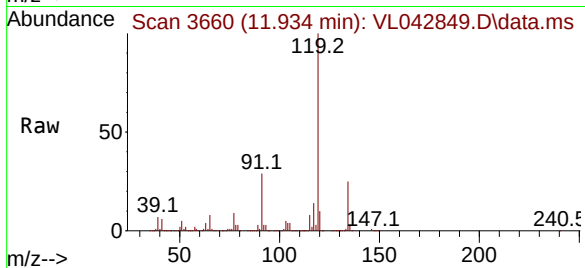
Tgt Ion:119 Resp: 634670

Ion Ratio Lower Upper

119 100

134 24.9 20.6 30.8

91 29.4 22.6 34.0



#70

n-Butylbenzene

Concen: 9.062 ppbv

RT: 12.287 min Scan# 3769

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

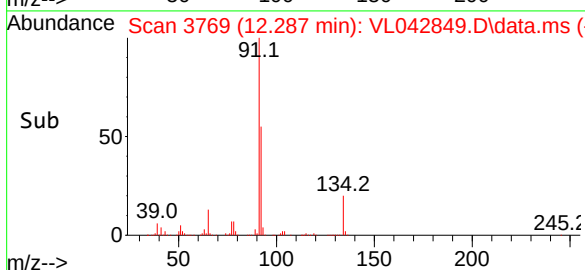
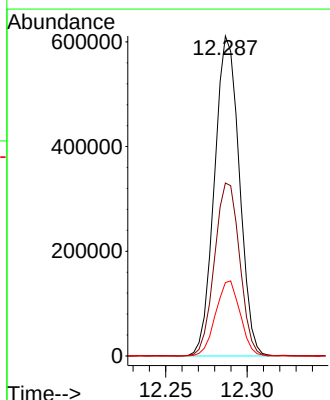
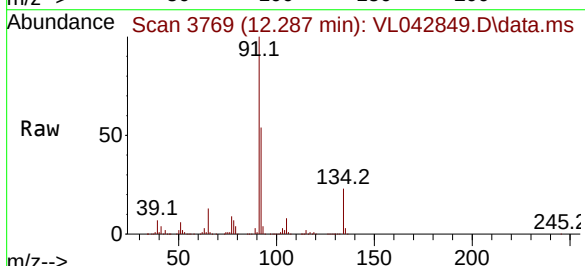
Tgt Ion: 91 Resp: 647453

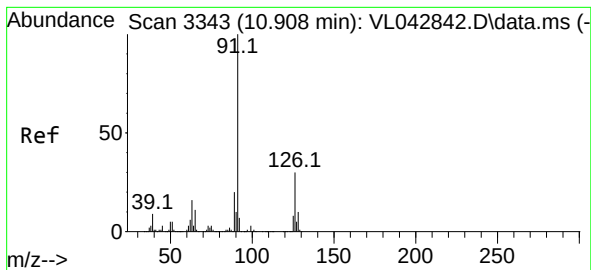
Ion Ratio Lower Upper

91 100

92 54.8 44.6 66.8

134 23.1 19.0 28.4

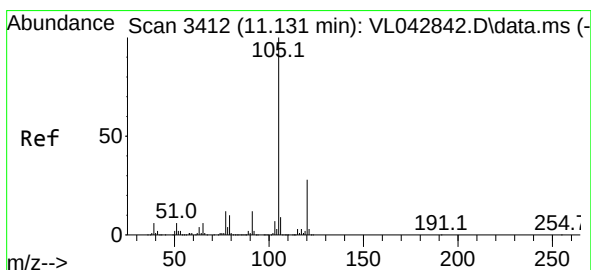
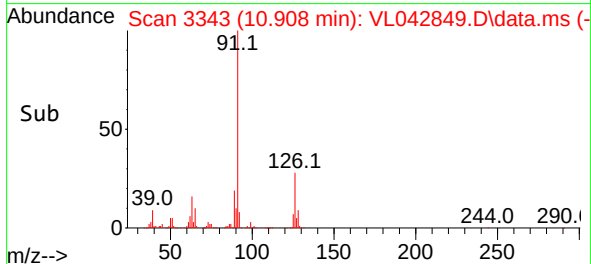
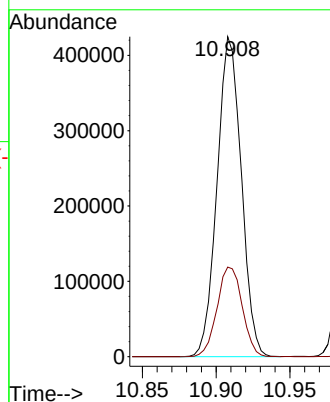
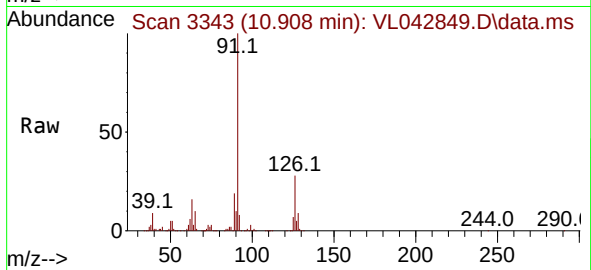




#71
2-Chlorotoluene
Concen: 9.214 ppbv
RT: 10.908 min Scan# 311
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

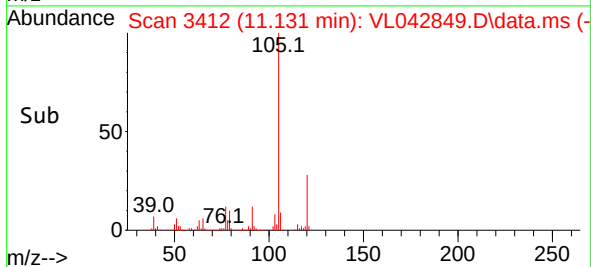
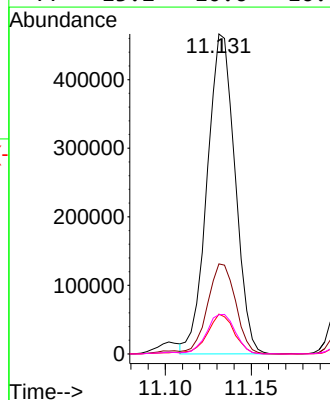
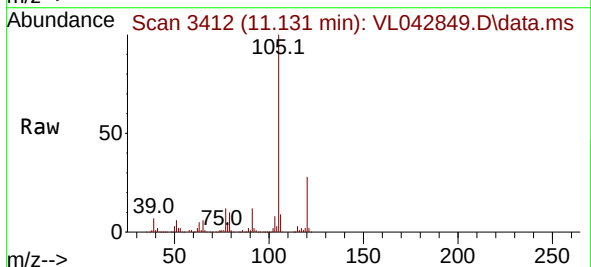
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

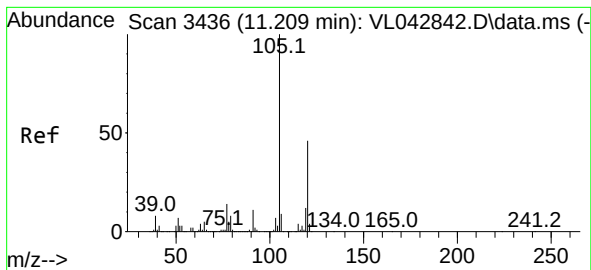
Tgt Ion: 91 Resp: 485171
Ion Ratio Lower Upper
91 100
126 29.1 12.0 47.8



#72
4-Ethyltoluene
Concen: 9.338 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 105 Resp: 525262
Ion Ratio Lower Upper
105 100
120 29.2 23.4 35.2
91 12.5 9.8 14.6
77 13.2 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 9.108 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

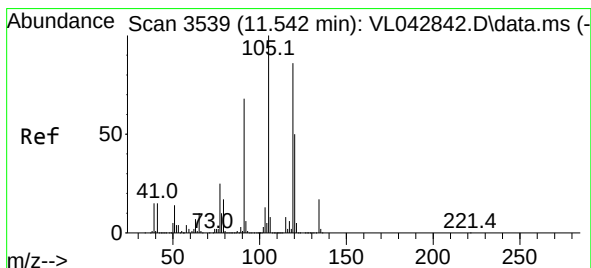
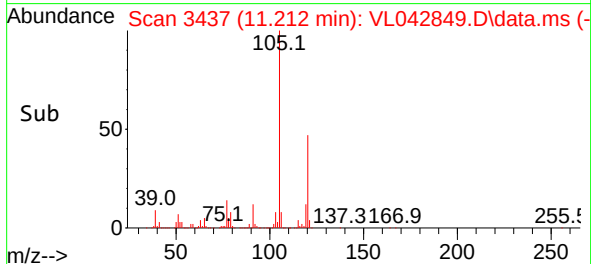
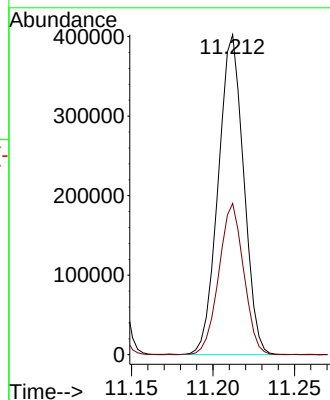
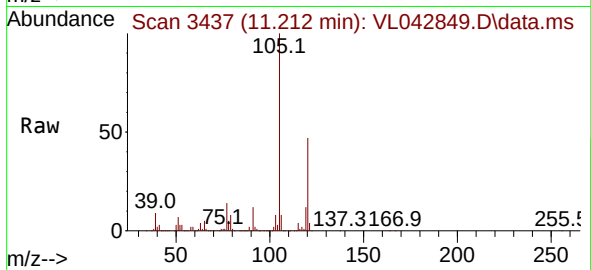
ICVVL081325

Tgt Ion:105 Resp: 435705

Ion Ratio Lower Upper

105 100

120 47.2 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 8.943 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Tgt Ion:105 Resp: 469573

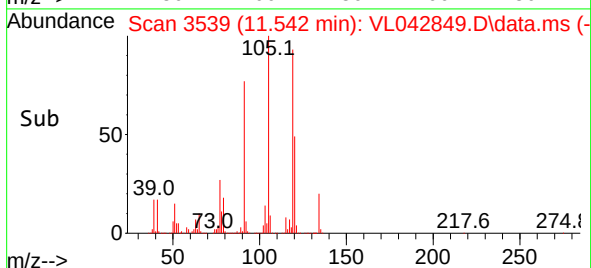
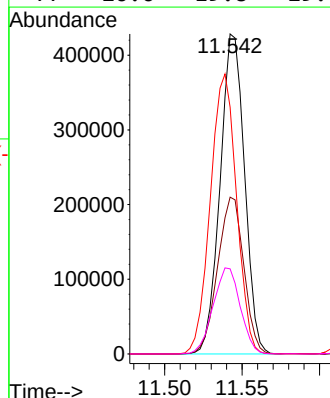
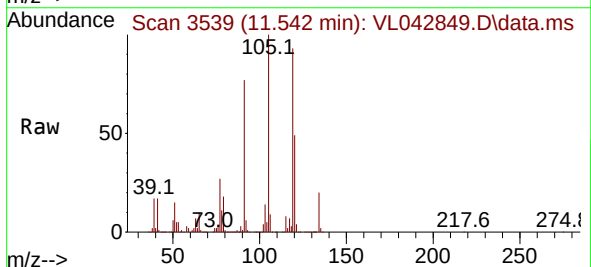
Ion Ratio Lower Upper

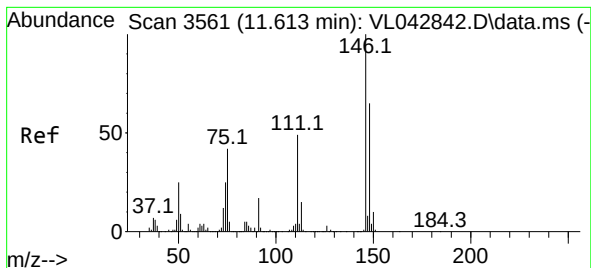
105 100

120 49.0 39.8 59.6

91 77.0 54.2 81.4

77 26.6 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 9.209 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325

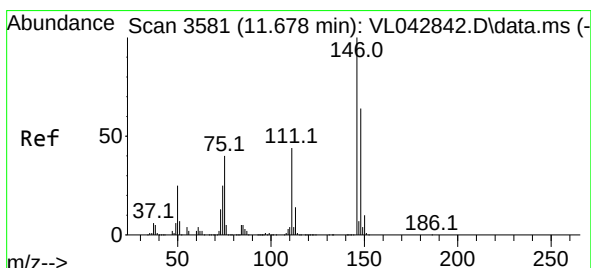
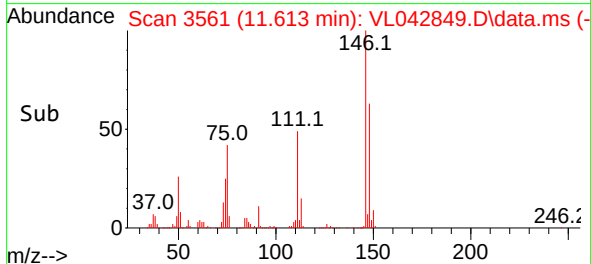
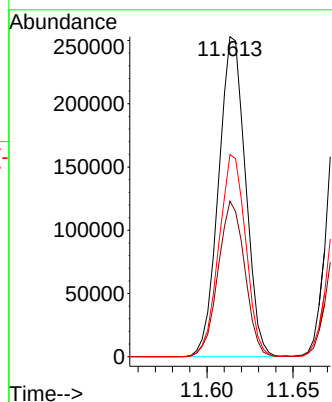
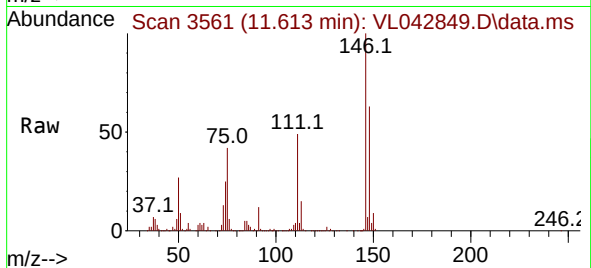
Tgt Ion:146 Resp: 274876

Ion Ratio Lower Upper

146 100

111 48.2 23.9 71.7

148 63.0 31.4 94.0



#76

1,4-Dichlorobenzene

Concen: 8.976 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

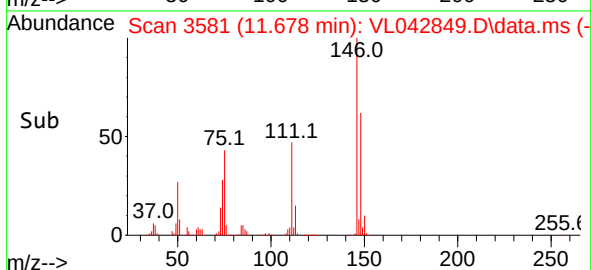
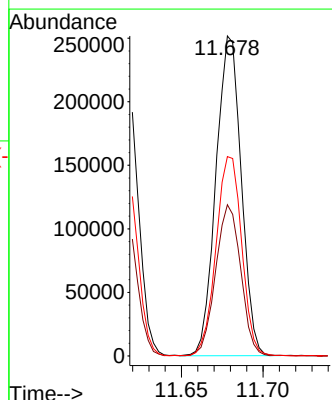
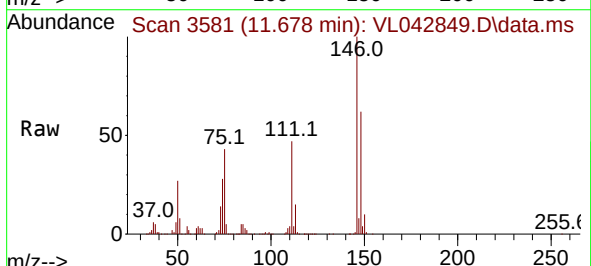
Tgt Ion:146 Resp: 270976

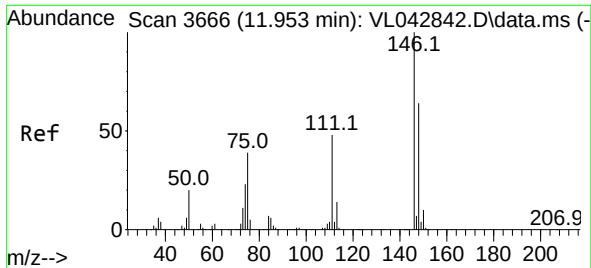
Ion Ratio Lower Upper

146 100

111 47.2 22.7 68.1

148 63.6 31.8 95.3

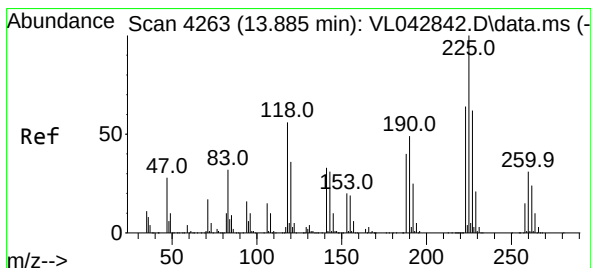
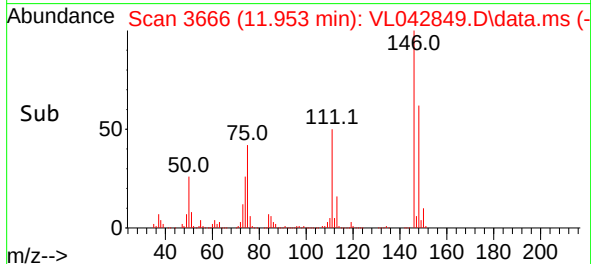
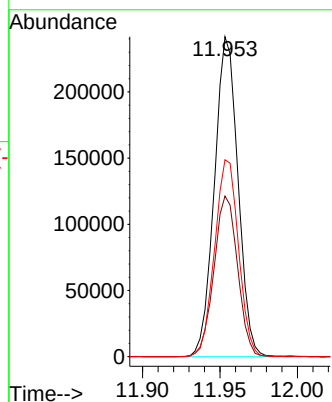
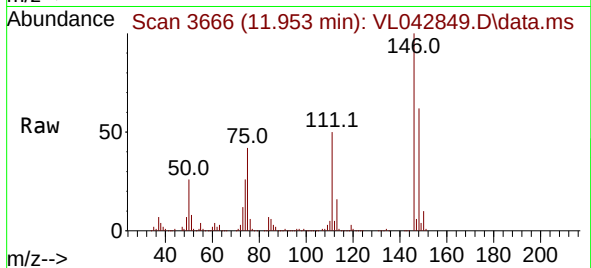




#77
1,2-Dichlorobenzene
Concen: 8.736 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

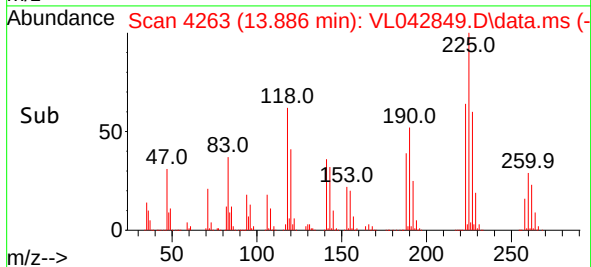
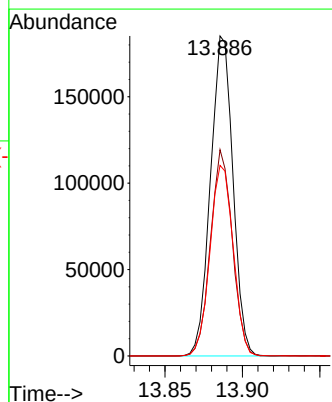
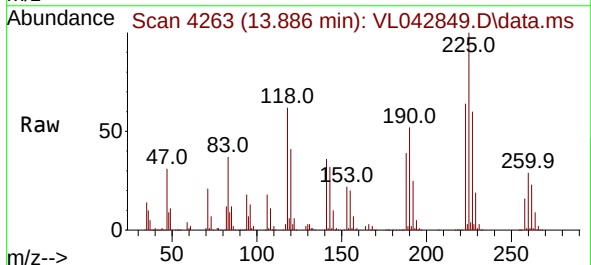
Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

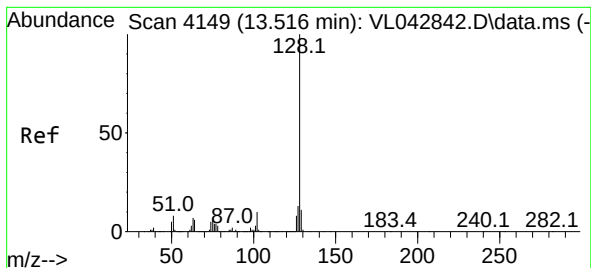
Tgt Ion:146 Resp: 255347
Ion Ratio Lower Upper
146 100
111 50.5 24.6 74.0
148 62.7 32.0 96.0



#78
Hexachloro-1,3-Butadiene
Concen: 7.778 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:225 Resp: 186318
Ion Ratio Lower Upper
225 100
223 62.9 51.4 77.2
227 61.6 51.9 77.9





#79

Naphthalene

Concen: 9.284 ppbv

RT: 13.520 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_1

ClientSampleId :

ICVVL081325

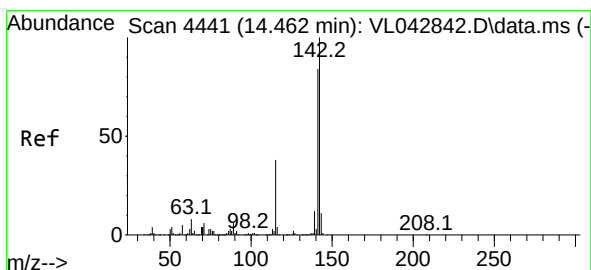
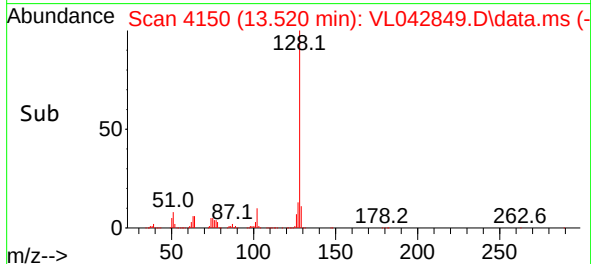
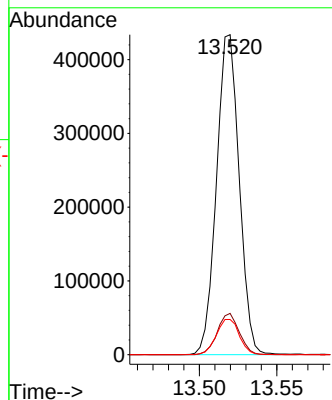
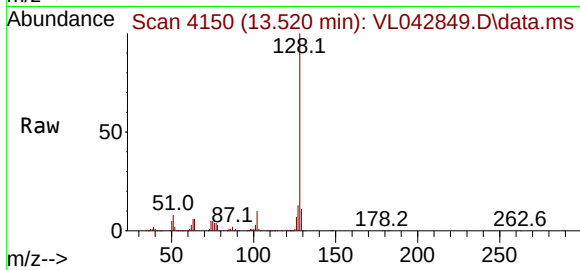
Tgt Ion:128 Resp: 441940

Ion Ratio Lower Upper

128 100

127 12.9 10.6 16.0

129 11.0 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 8.188 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

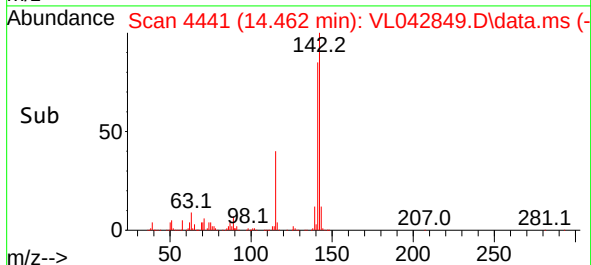
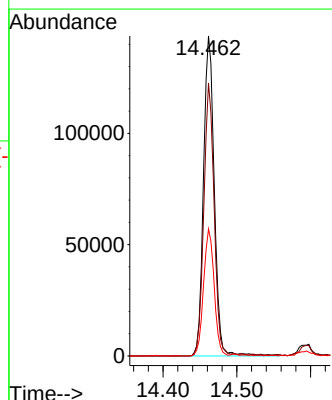
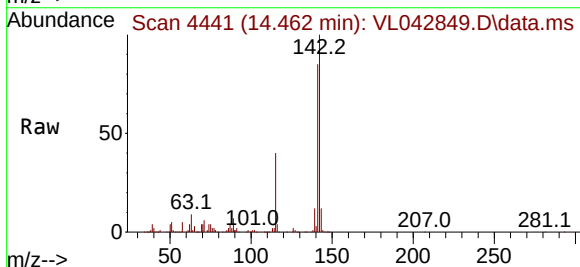
Tgt Ion:142 Resp: 145644

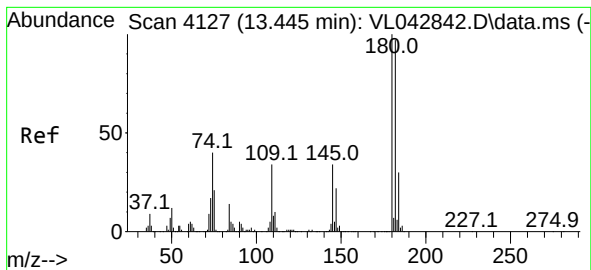
Ion Ratio Lower Upper

142 100

141 81.9 67.0 100.6

115 40.2 30.9 46.3





#81

1,2,4-Trichlorobenzene

Concen: 9.016 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042849.D

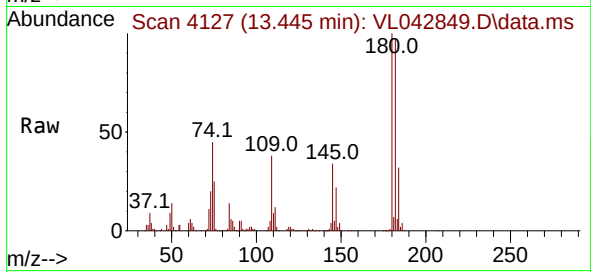
Acq: 13 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081325



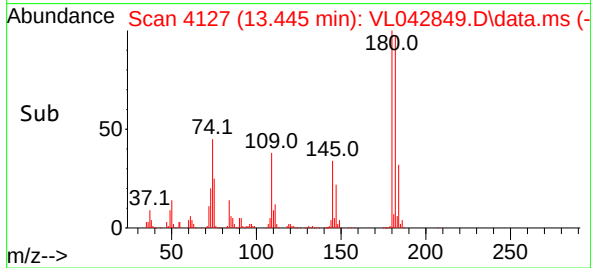
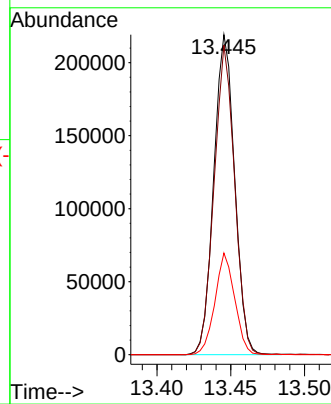
Tgt Ion:180 Resp: 215715

Ion Ratio Lower Upper

180 100

182 95.4 76.9 115.3

184 30.1 24.5 36.7



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 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	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	53171	8.683	ppbv #	92
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

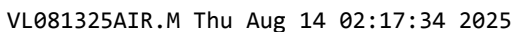
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 MSVOA_L
 ClientSampleId :
 VL0813ABS01

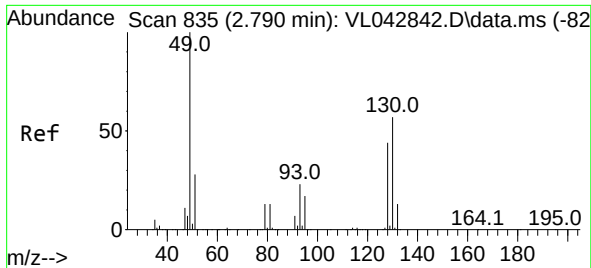
Quant Time: Aug 14 02:17:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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	9.545	91	418211	9.381	ppbv #	100
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

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.793 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABS01

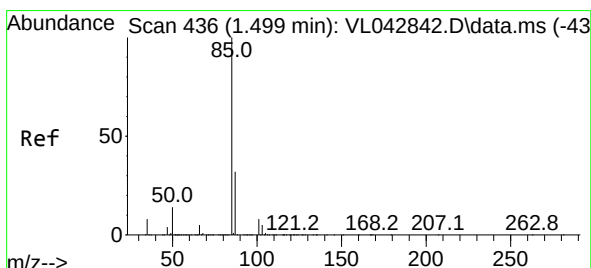
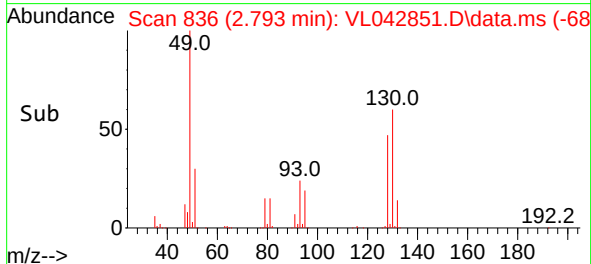
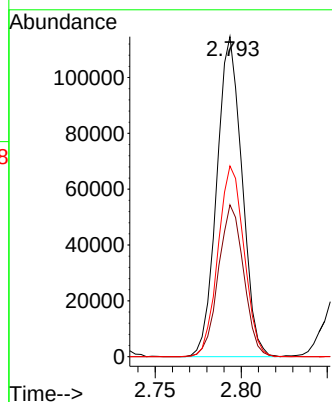
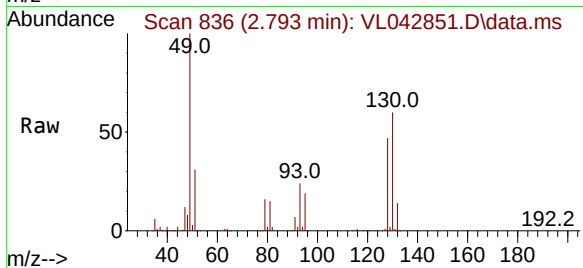
Tgt Ion: 49 Resp: 116881

Ion Ratio Lower Upper

49 100

128 47.4 23.7 71.1

130 61.4 30.6 91.6



#2

Dichlorodifluoromethane

Concen: 9.338 ppbv

RT: 1.502 min Scan# 437

Delta R.T. 0.003 min

Lab File: VL042851.D

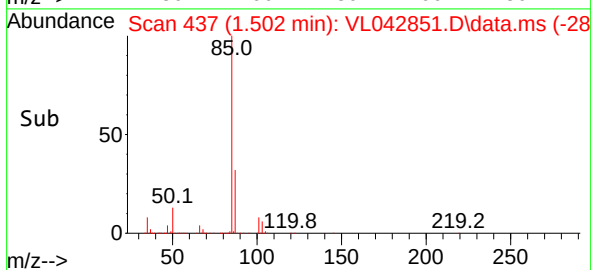
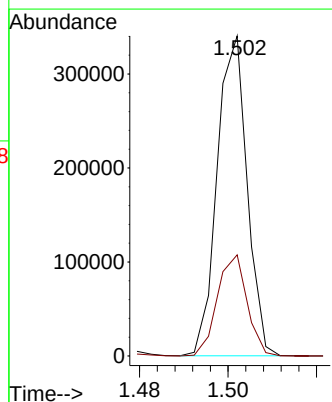
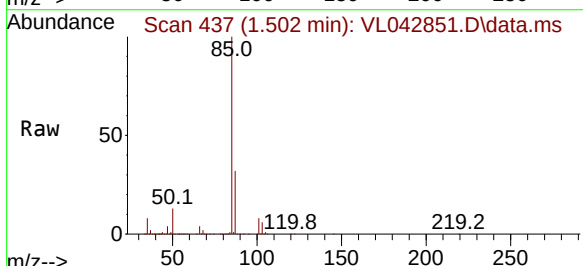
Acq: 13 Aug 2025 14:32

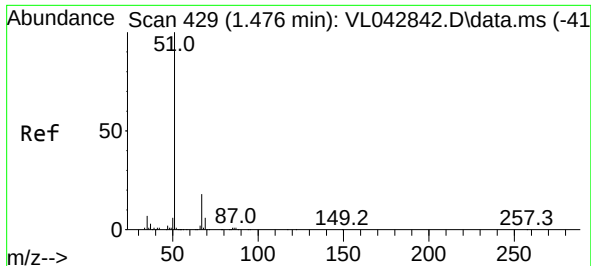
Tgt Ion: 85 Resp: 159958

Ion Ratio Lower Upper

85 100

87 31.6 25.3 37.9

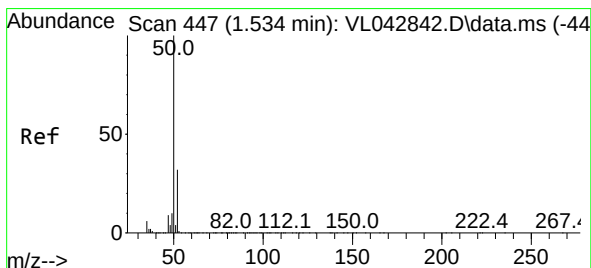
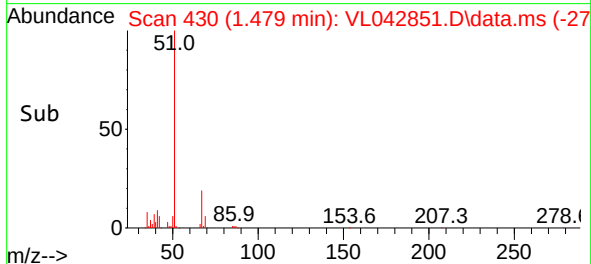
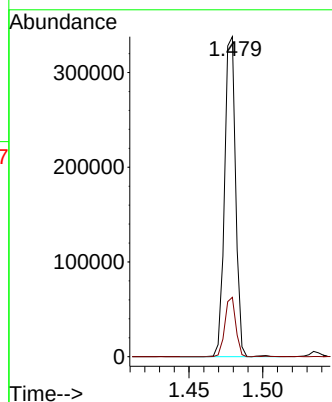
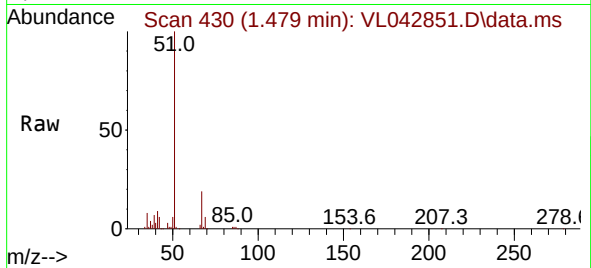




#3
Chlorodifluoromethane
Concen: 9.360 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

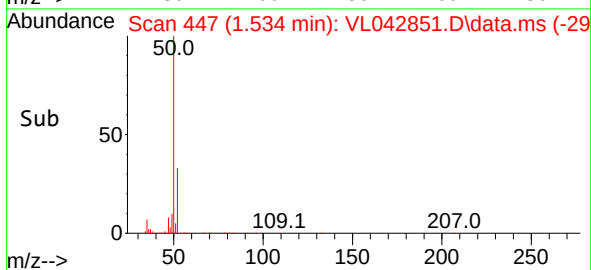
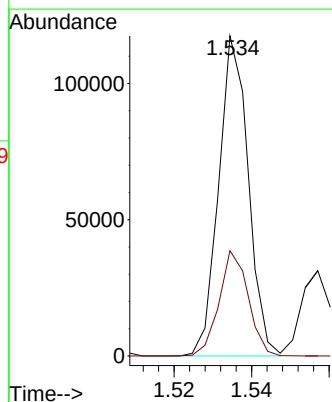
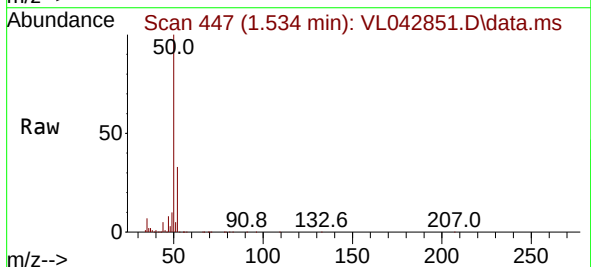
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

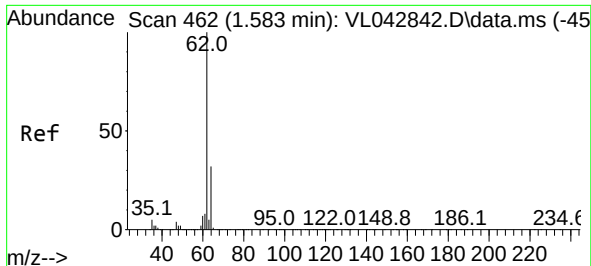
Tgt Ion: 51 Resp: 177225
Ion Ratio Lower Upper
51 100
67 18.5 14.9 22.3



#4
Chloromethane
Concen: 9.004 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion: 50 Resp: 62240
Ion Ratio Lower Upper
50 100
52 32.8 25.9 38.9

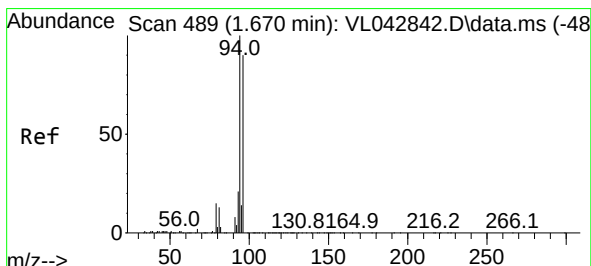
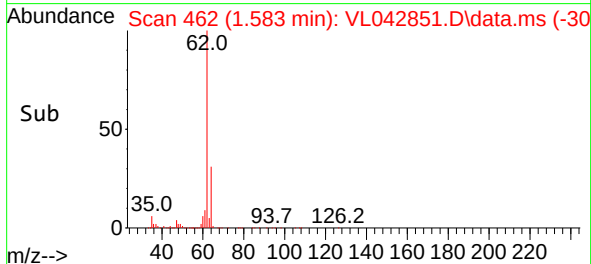
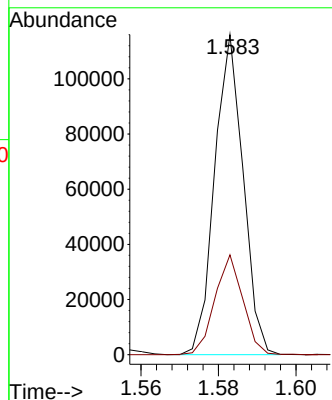
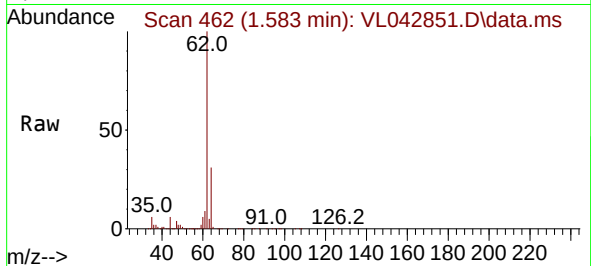




#5
 Vinyl Chloride
 Concen: 8.716 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

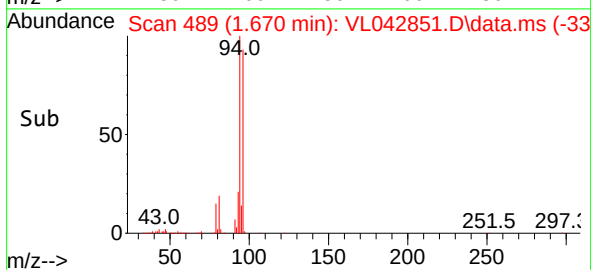
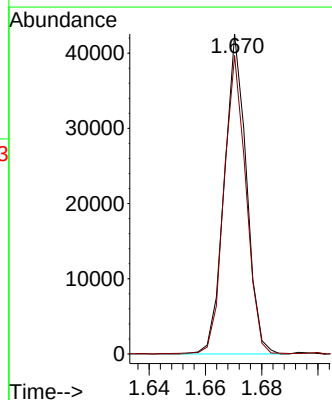
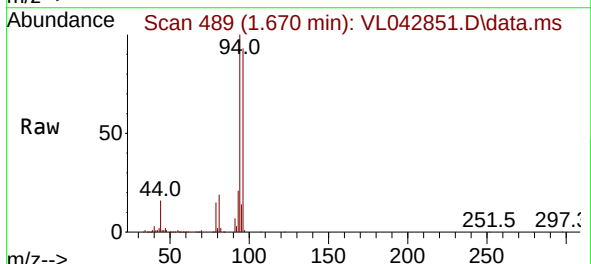
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0813ABS01

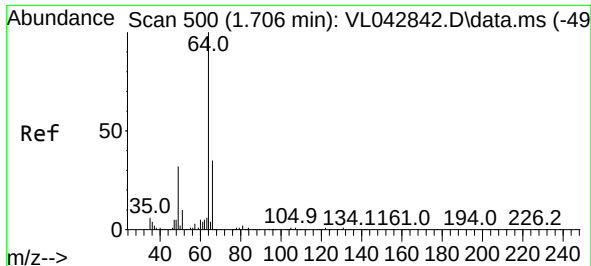
Tgt Ion: 62 Resp: 59335
 Ion Ratio Lower Upper
 62 100
 64 31.1 25.4 38.2



#6
 Bromomethane
 Concen: 8.505 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

Tgt Ion: 94 Resp: 23152
 Ion Ratio Lower Upper
 94 100
 96 93.1 72.1 108.1

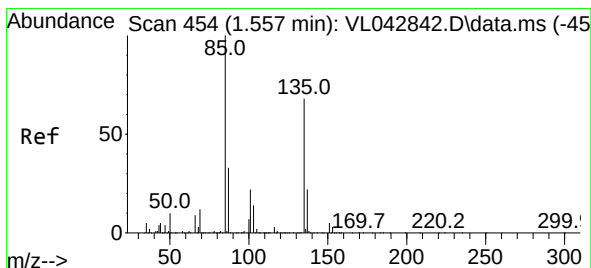
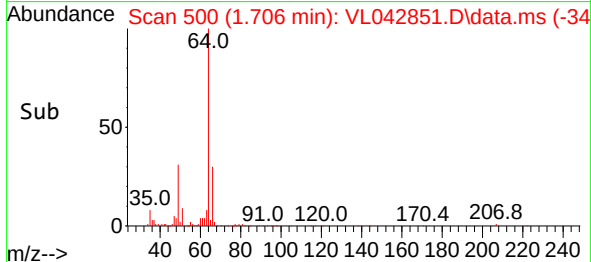
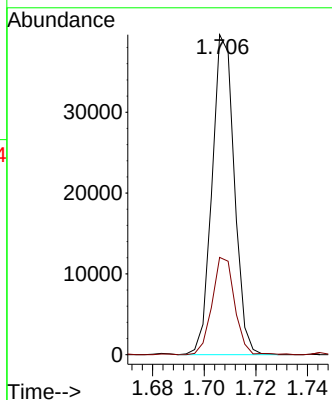
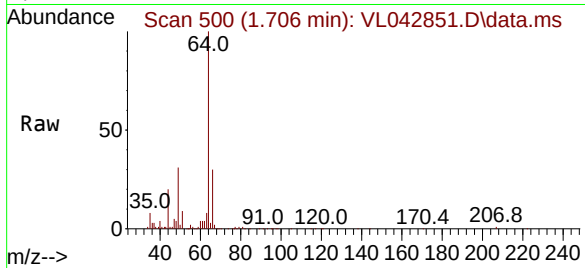




#7
Chloroethane
Concen: 8.898 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

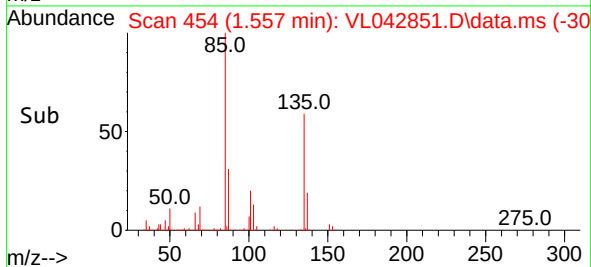
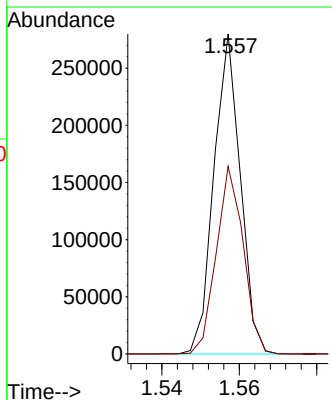
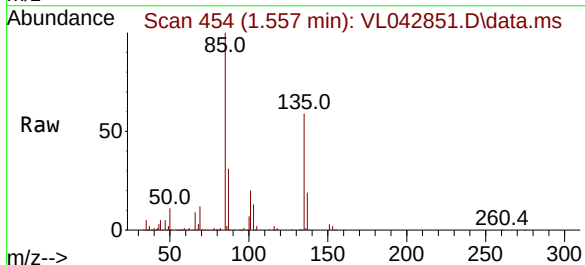
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

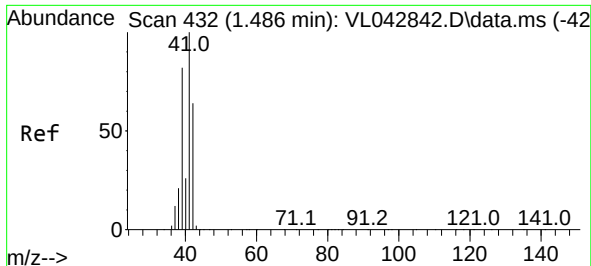
Tgt Ion: 64 Resp: 23657
Ion Ratio Lower Upper
64 100
66 30.4 28.6 42.8



#8
Dichlorotetrafluoroethane
Concen: 9.471 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion: 85 Resp: 132763
Ion Ratio Lower Upper
85 100
135 59.9 51.2 76.8





#9

Propene

Concen: 8.686 ppbv

RT: 1.486 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

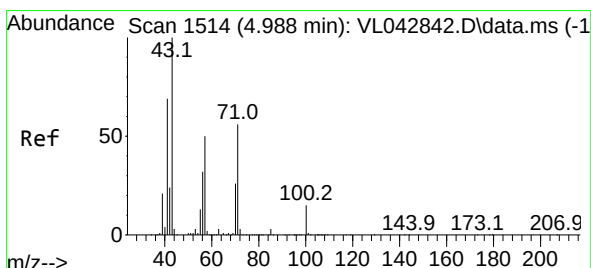
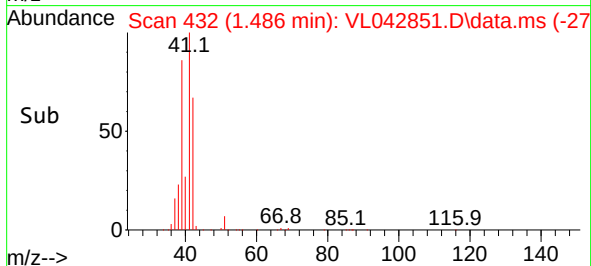
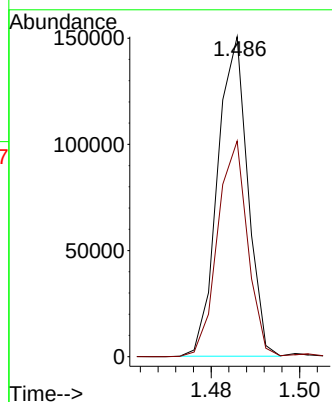
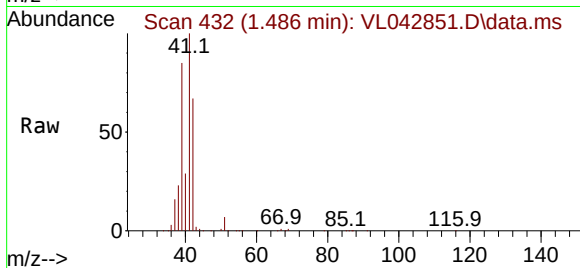
VL0813ABS01

Tgt Ion: 41 Resp: 71030

Ion Ratio Lower Upper

41 100

42 68.8 53.0 79.4



#10

Heptane

Concen: 9.118 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.003 min

Lab File: VL042851.D

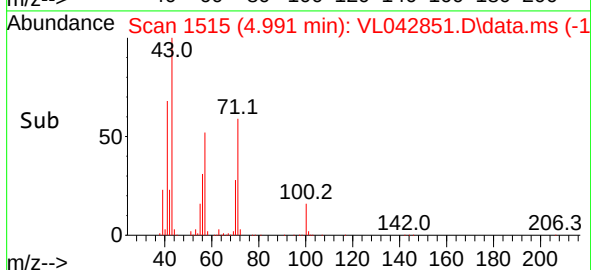
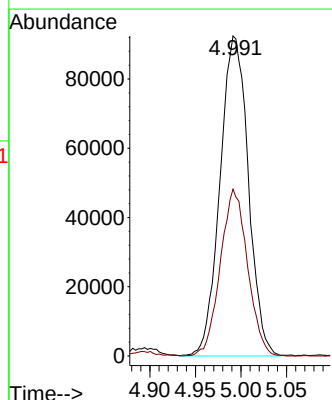
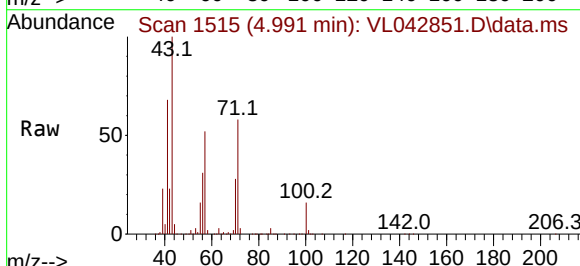
Acq: 13 Aug 2025 14:32

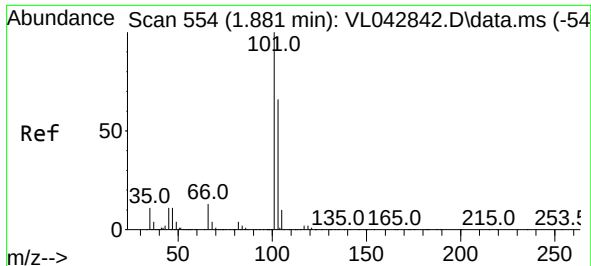
Tgt Ion: 43 Resp: 199706

Ion Ratio Lower Upper

43 100

57 50.2 41.4 62.0

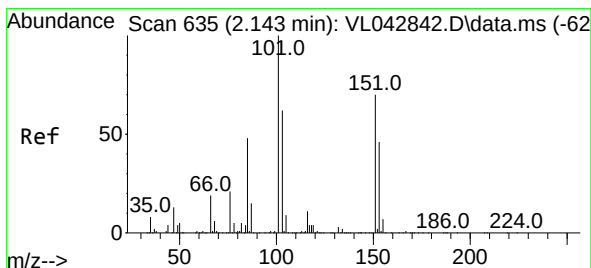
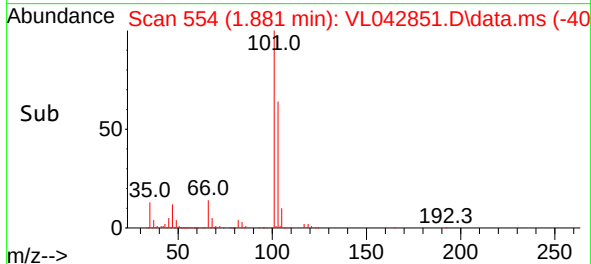
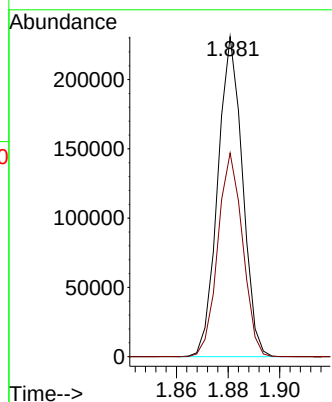
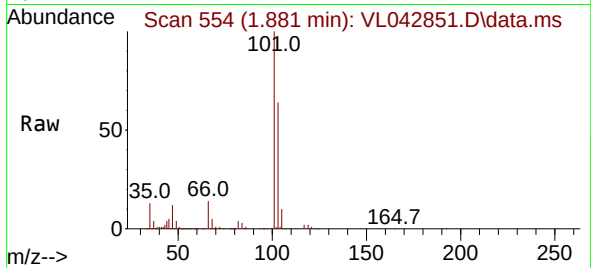




#11
 Trichlorofluoromethane
 Concen: 9.084 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

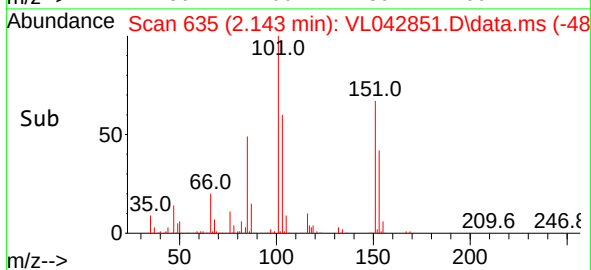
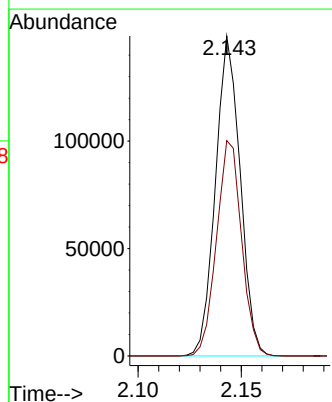
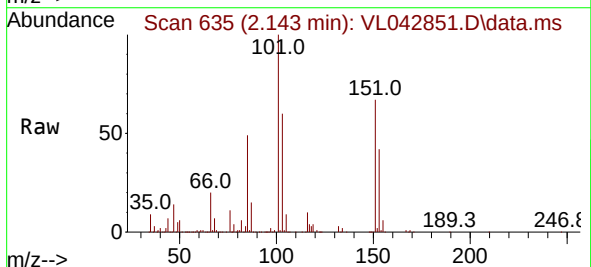
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABS01

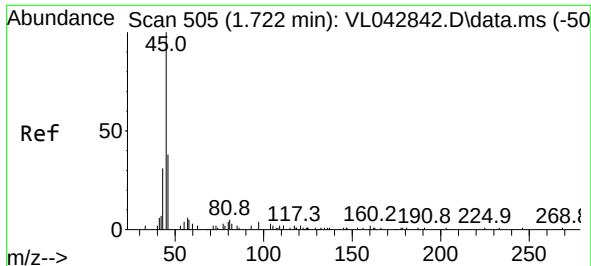
Tgt Ion:101 Resp: 153519
 Ion Ratio Lower Upper
 101 100
 103 63.6 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.198 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

Tgt Ion:101 Resp: 123905
 Ion Ratio Lower Upper
 101 100
 151 68.3 56.4 84.6

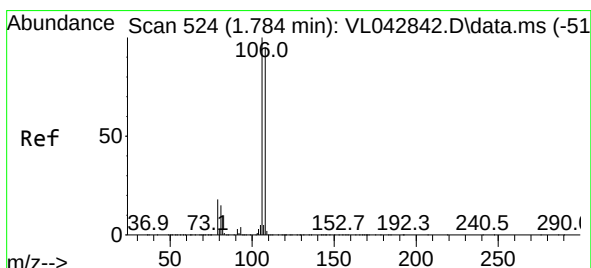
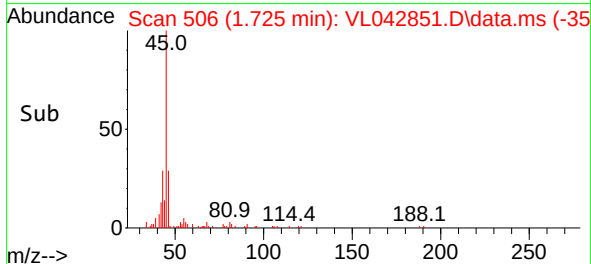
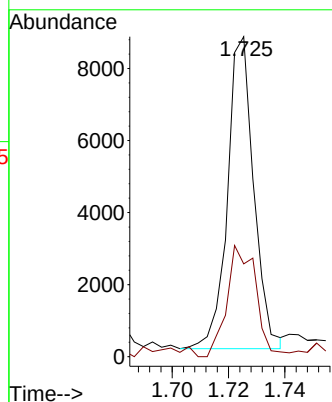
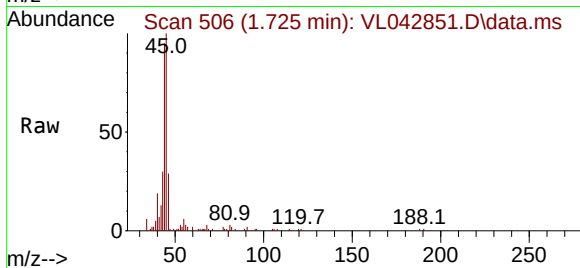




#13
 Ethanol
 Concen: 7.501 ppbv
 RT: 1.725 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

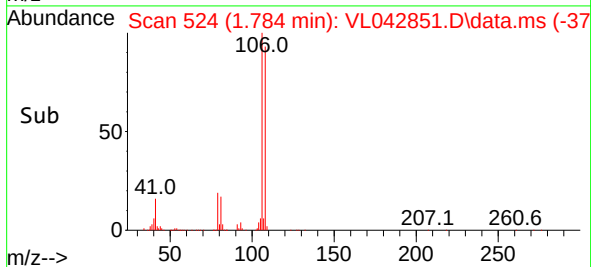
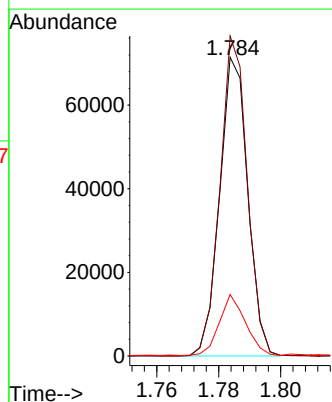
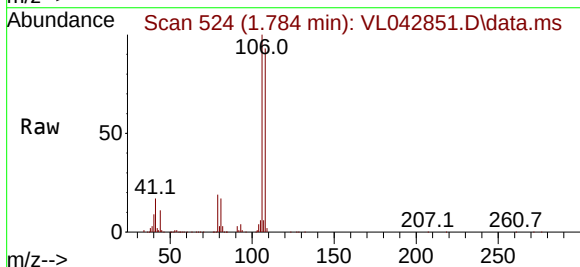
Instrument :
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 ClientSampleId :
 VL0813ABS01

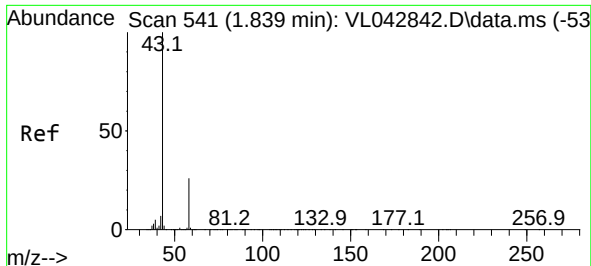
Tgt Ion: 45 Resp: 5608
 Ion Ratio Lower Upper
 45 100
 46 43.8 17.5 69.9



#14
 Bromoethene
 Concen: 9.244 ppbv
 RT: 1.784 min Scan# 524
 Delta R.T. -0.000 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

Tgt Ion: 108 Resp: 45076
 Ion Ratio Lower Upper
 108 100
 106 104.0 85.1 127.7
 79 19.6 16.3 24.5





#15

Acetone

Concen: 7.448 ppbv

RT: 1.839 min Scan# 541

Delta R.T. -0.000 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

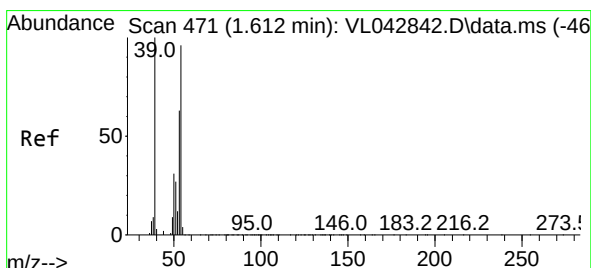
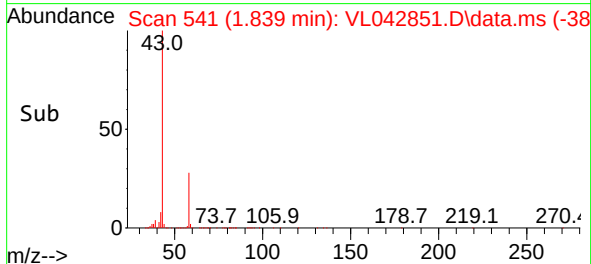
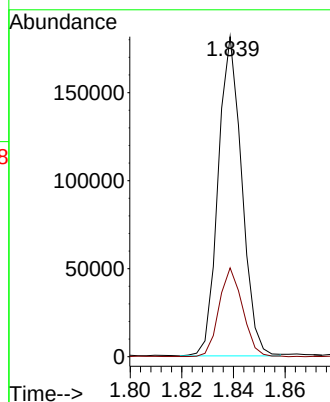
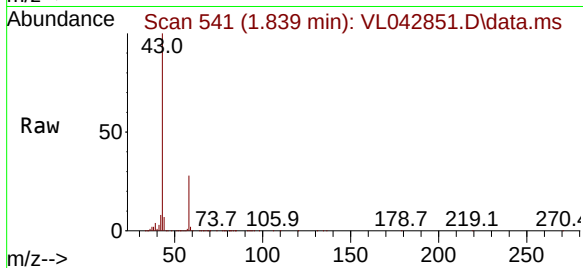
VL0813ABS01

Tgt Ion: 43 Resp: 115155

Ion Ratio Lower Upper

43 100

58 28.1 22.4 33.6



#16

1,3-Butadiene

Concen: 8.412 ppbv

RT: 1.612 min Scan# 471

Delta R.T. -0.000 min

Lab File: VL042851.D

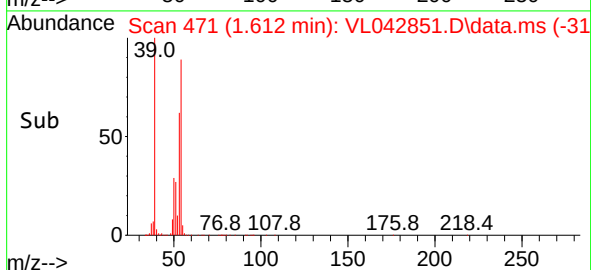
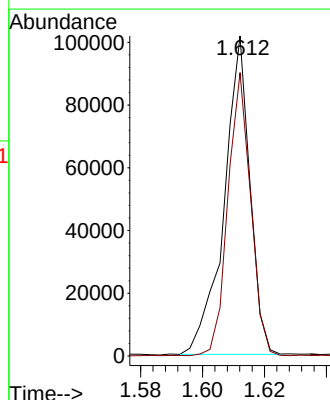
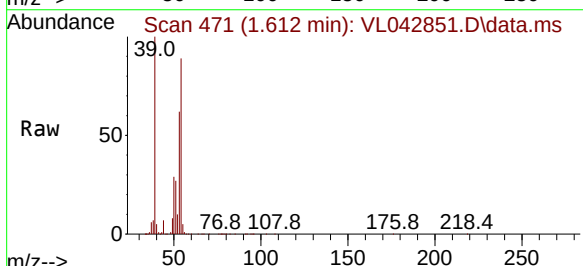
Acq: 13 Aug 2025 14:32

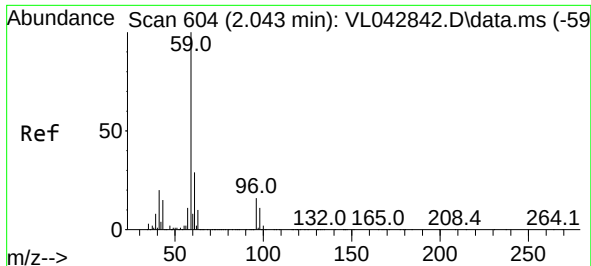
Tgt Ion: 39 Resp: 58958

Ion Ratio Lower Upper

39 100

54 79.0 63.6 95.4





#17

tert-Butyl alcohol

Concen: 8.668 ppbv

RT: 2.043 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

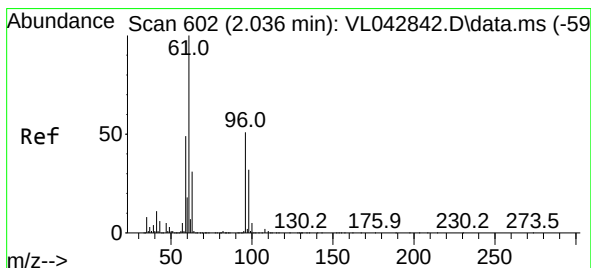
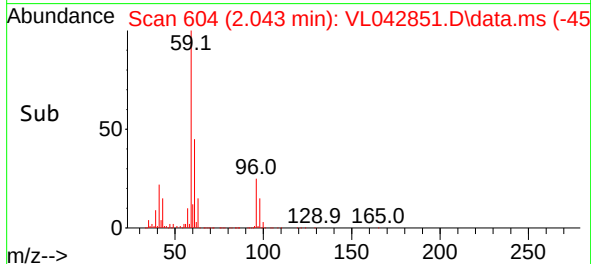
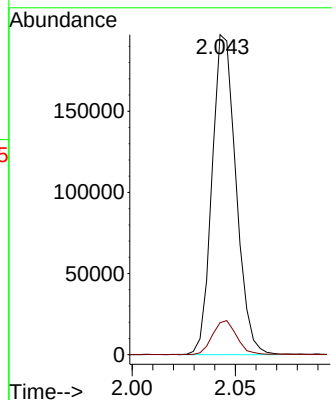
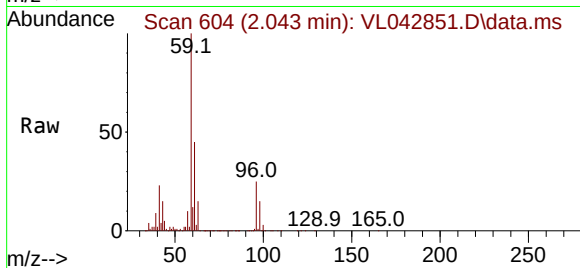
VL0813ABS01

Tgt Ion: 59 Resp: 158939

Ion Ratio Lower Upper

59 100

57 10.9 9.0 13.4



#18

1,1-Dichloroethene

Concen: 9.371 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

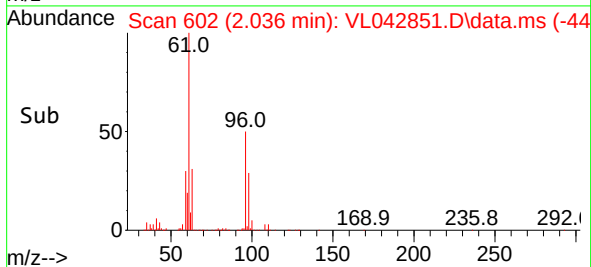
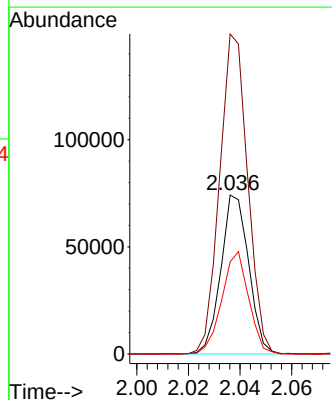
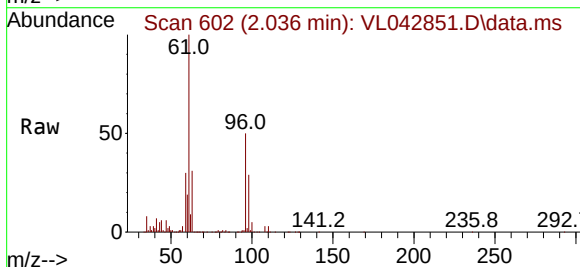
Tgt Ion: 96 Resp: 55494

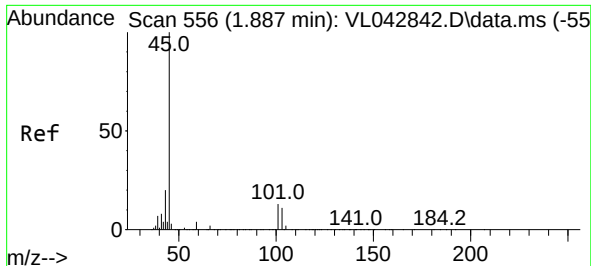
Ion Ratio Lower Upper

96 100

61 201.4 158.2 237.4

98 58.0 50.6 76.0

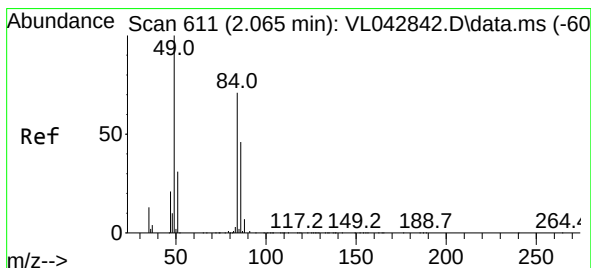
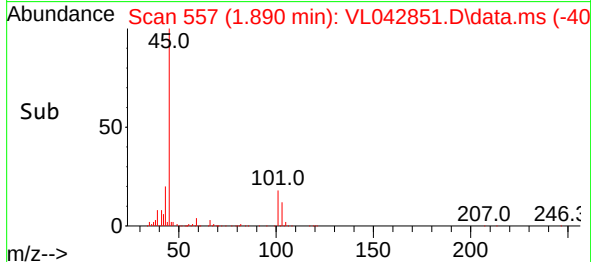
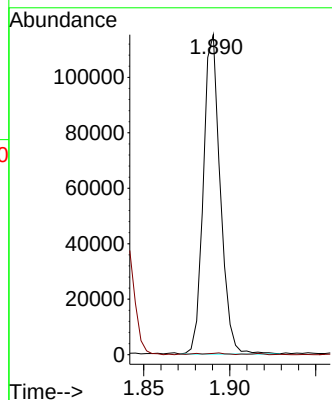
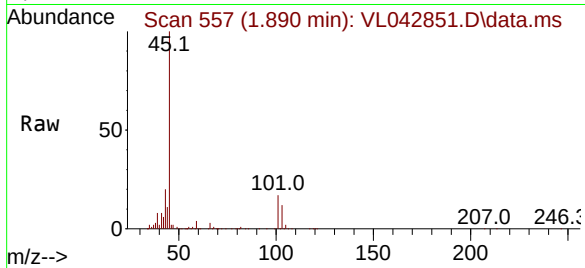




#19
Isopropyl Alcohol
Concen: 8.540 ppbv
RT: 1.890 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

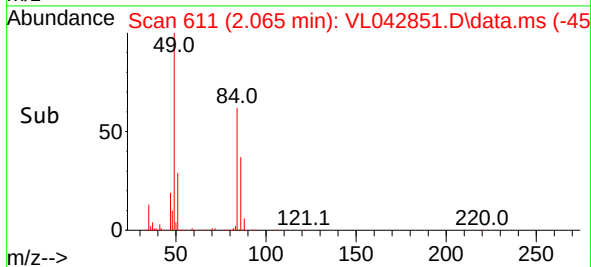
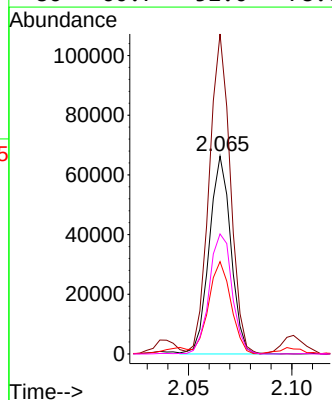
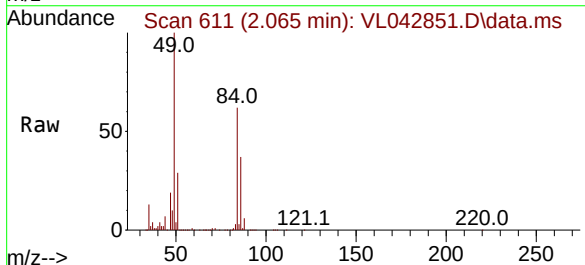
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

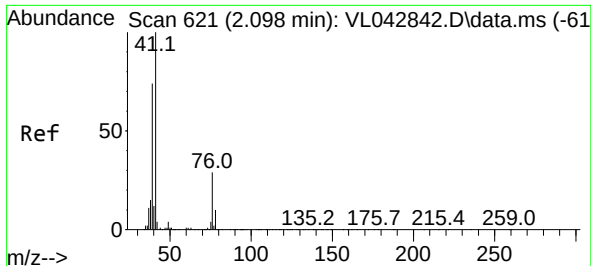
Tgt Ion: 45 Resp: 78860
Ion Ratio Lower Upper
45 100
58 41.0 32.7 49.1



#20
Methylene Chloride
Concen: 7.439 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion: 84 Resp: 48184
Ion Ratio Lower Upper
84 100
49 159.6 112.3 168.5
51 45.1 36.0 54.0
86 60.7 52.0 78.0

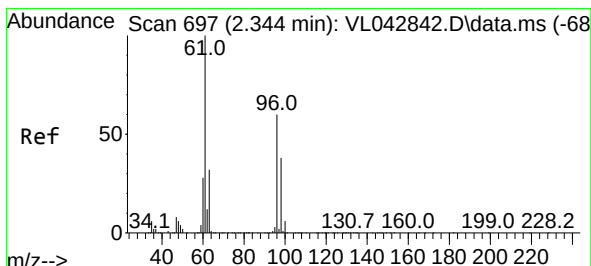
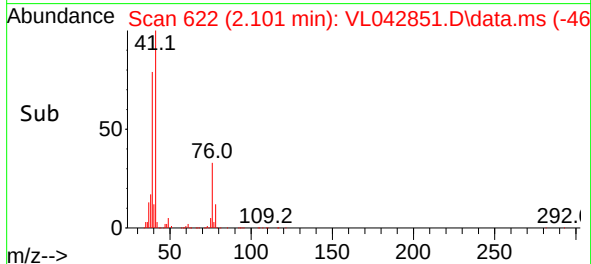
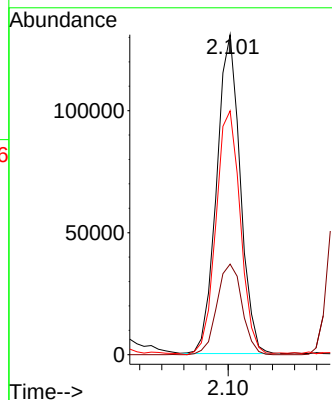
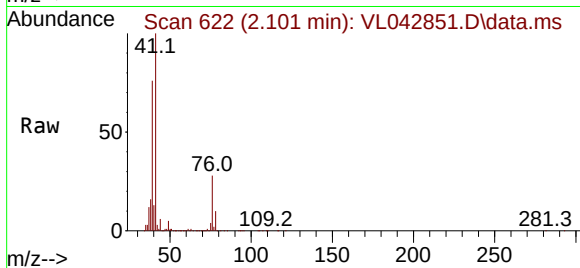




#21
 Allyl Chloride
 Concen: 8.854 ppbv
 RT: 2.101 min Scan# 611
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

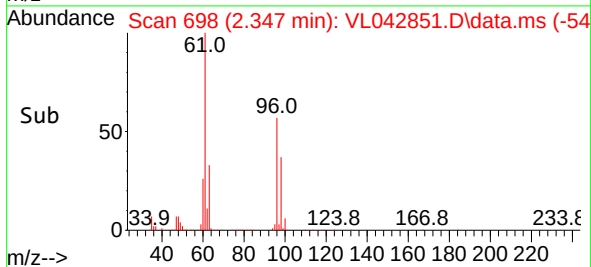
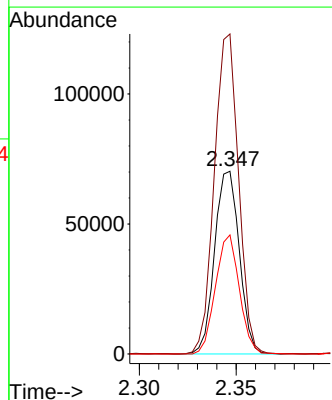
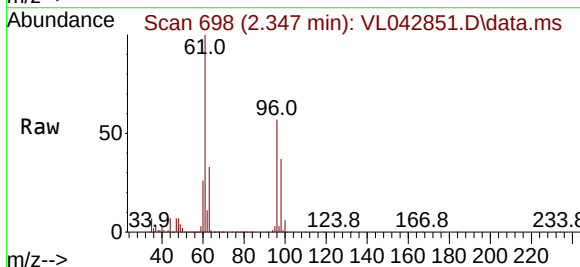
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABS01

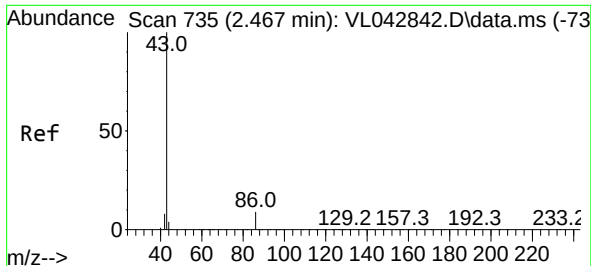
Tgt Ion: 41 Resp: 96710
 Ion Ratio Lower Upper
 41 100
 76 30.3 23.9 35.9
 39 78.0 57.8 86.6



#22
 trans-1,2-Dichloroethene
 Concen: 9.117 ppbv
 RT: 2.347 min Scan# 698
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

Tgt Ion: 96 Resp: 62464
 Ion Ratio Lower Upper
 96 100
 61 175.1 132.6 199.0
 98 65.1 50.0 75.0



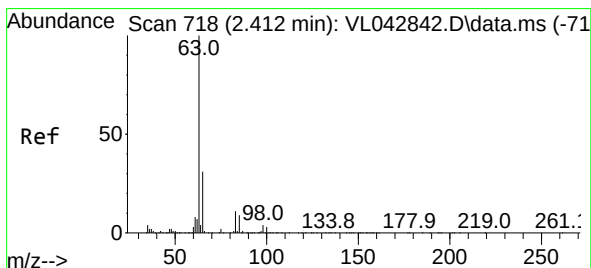
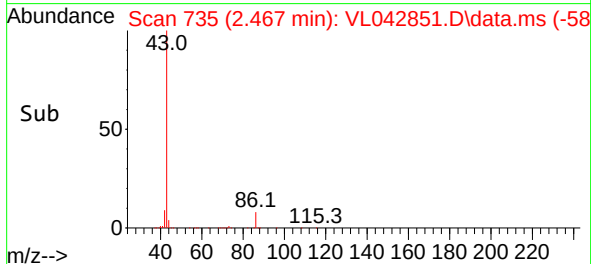
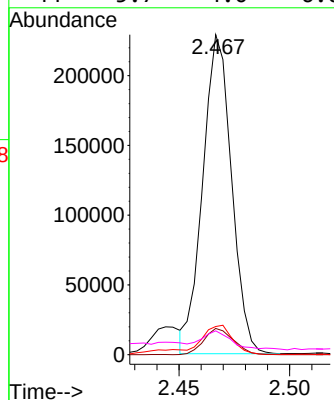
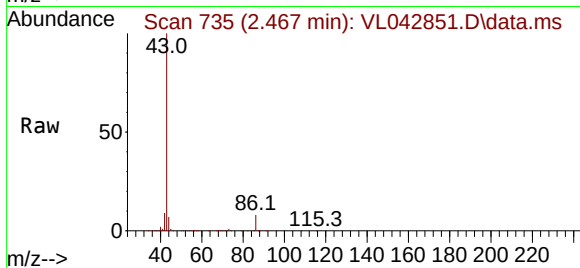


#23
 Vinyl Acetate
 Concen: 9.728 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. -0.000 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

Instrument :
 MSVOA_1
 ClientSampleId :
 VL0813ABS01

Tgt Ion: 43 Resp: 206801

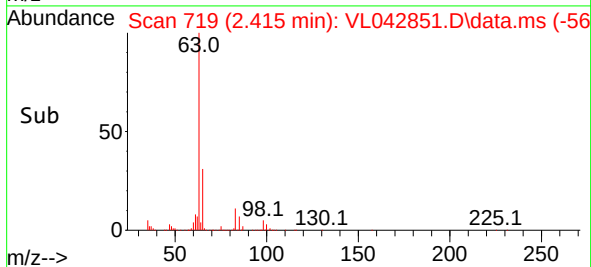
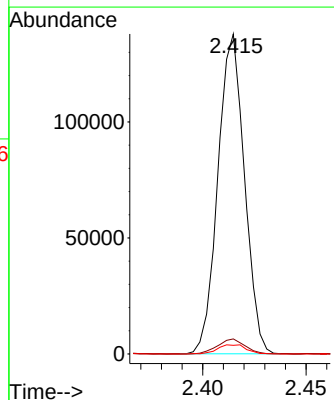
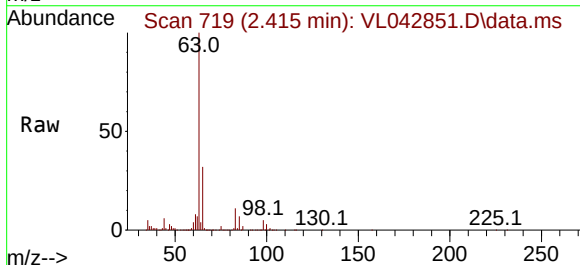
Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8
42	8.7	7.0	10.6
44	5.7	4.0	6.0

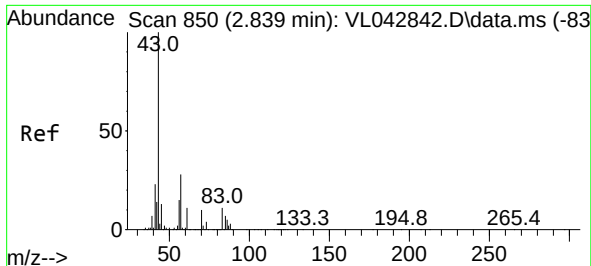


#24
 1,1-Dichloroethane
 Concen: 8.993 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

Tgt Ion: 63 Resp: 123052

Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.1	6.5
100	2.7	1.7	5.1

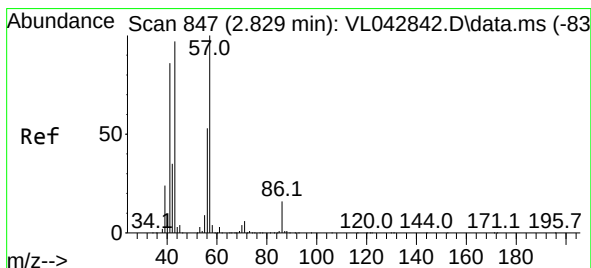
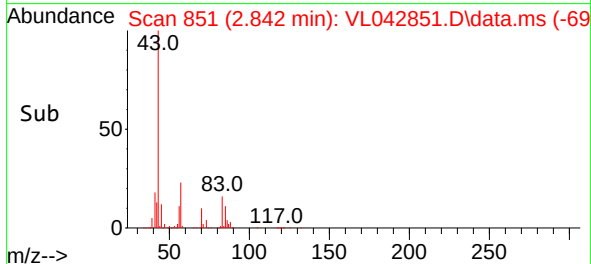
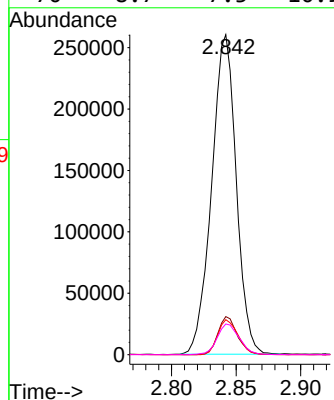
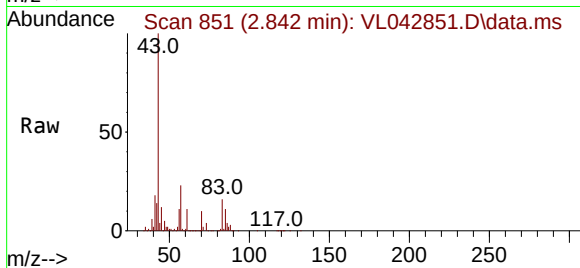




#25
Ethyl Acetate
Concen: 9.200 ppbv
RT: 2.842 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

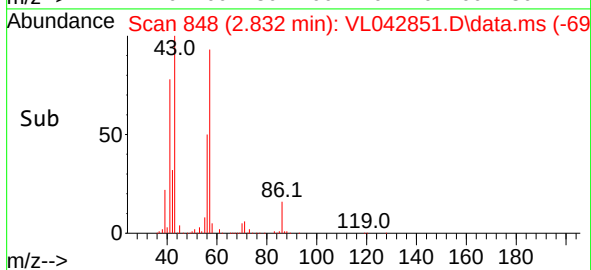
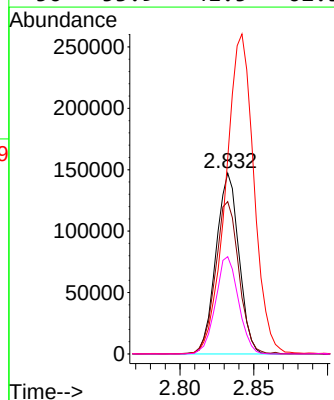
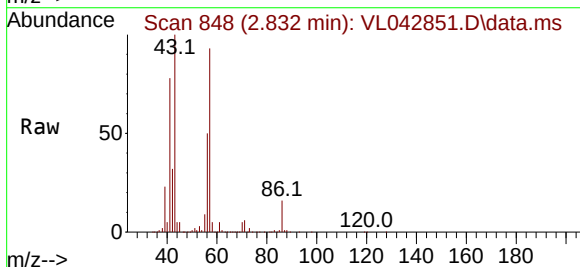
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

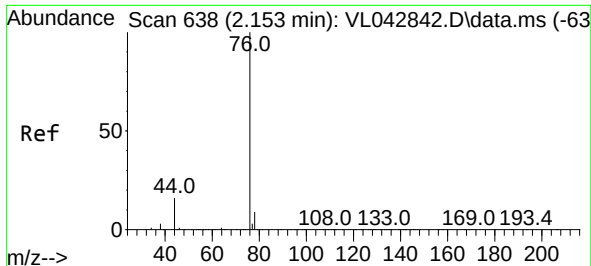
Tgt Ion:	43	Resp:	344281
Ion	Ratio	Lower	Upper
43	100		
45	9.7	8.1	12.1
61	9.1	7.4	11.2
70	8.7	7.3	10.9



#26
Hexane
Concen: 9.206 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion:	57	Resp:	159005
Ion	Ratio	Lower	Upper
57	100		
41	87.1	68.6	103.0
43	217.5	168.5	252.7
56	53.9	41.5	62.3





#27

Carbon Disulfide

Concen: 9.126 ppbv

RT: 2.156 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABS01

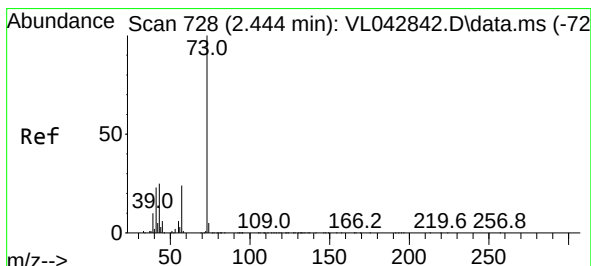
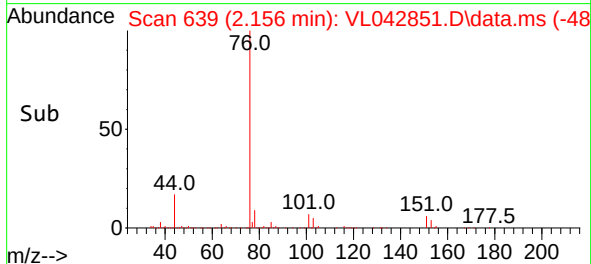
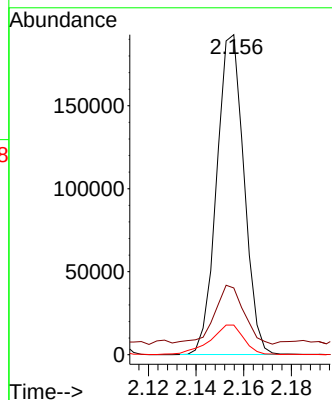
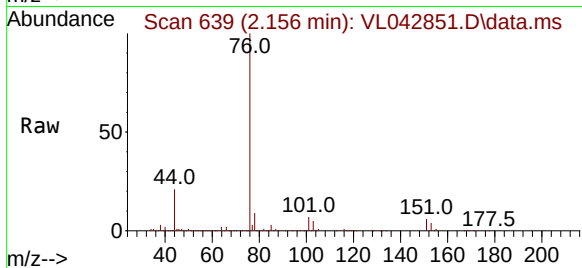
Tgt Ion: 76 Resp: 153403

Ion Ratio Lower Upper

76 100

44 26.3 15.9 23.9#

78 11.6 9.5 14.3



#28

Methyl tert-Butyl Ether

Concen: 9.630 ppbv

RT: 2.444 min Scan# 728

Delta R.T. -0.000 min

Lab File: VL042851.D

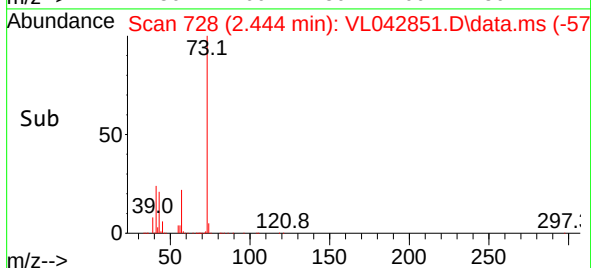
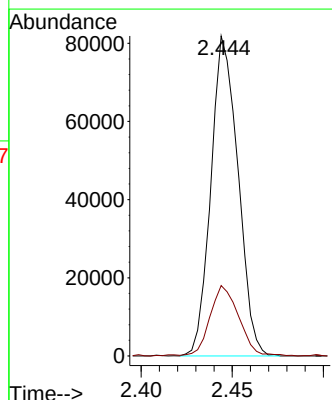
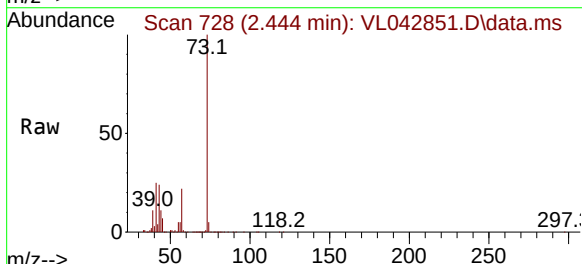
Acq: 13 Aug 2025 14:32

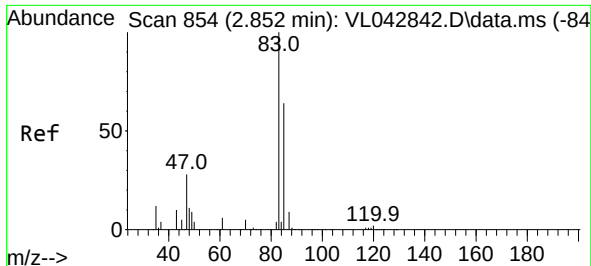
Tgt Ion: 73 Resp: 84816

Ion Ratio Lower Upper

73 100

57 23.2 21.6 32.4





#29

Chloroform

Concen: 9.492 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

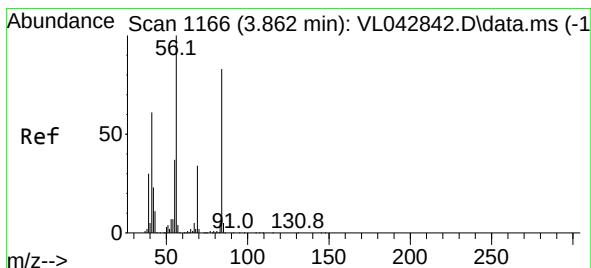
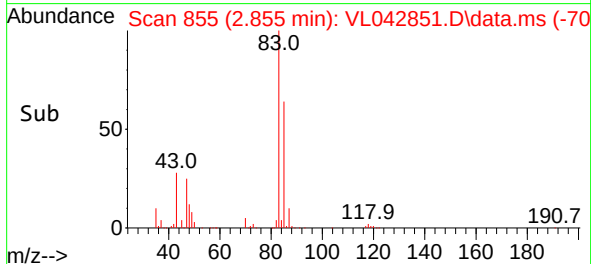
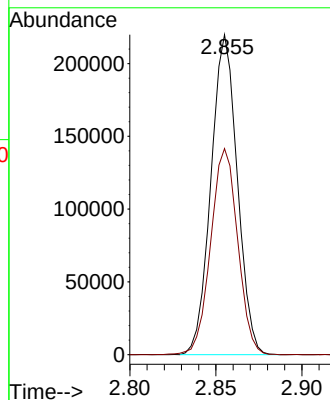
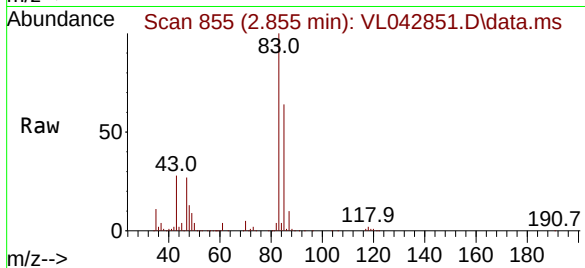
VL0813ABS01

Tgt Ion: 83 Resp: 234067

Ion Ratio Lower Upper

83 100

85 64.4 51.1 76.7



#30

Cyclohexane

Concen: 9.270 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

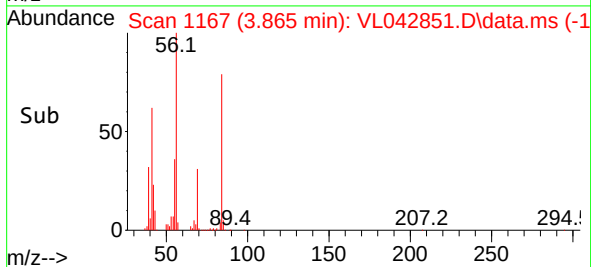
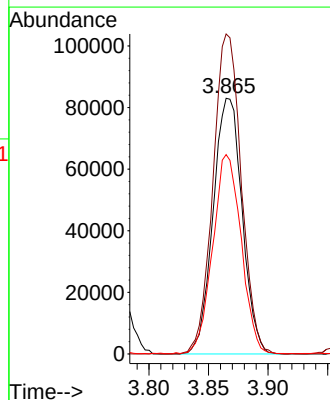
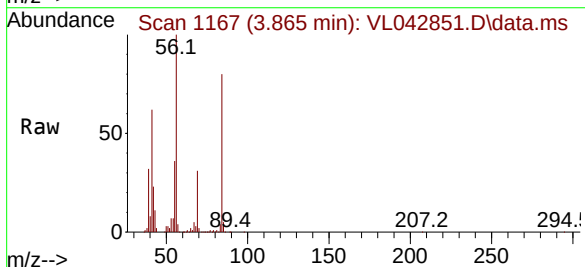
Tgt Ion: 84 Resp: 140375

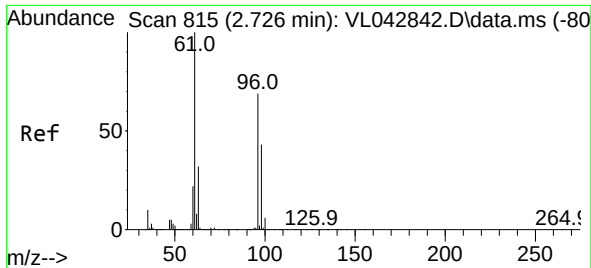
Ion Ratio Lower Upper

84 100

56 122.1 98.8 148.2

41 76.3 61.3 91.9

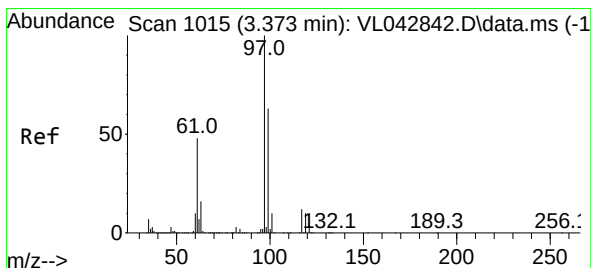
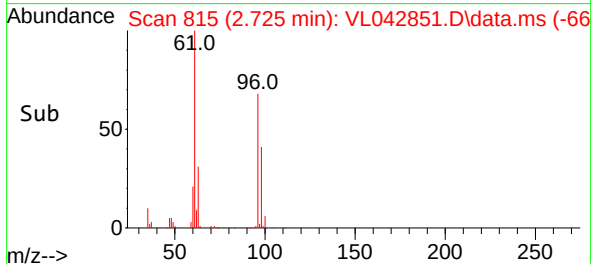
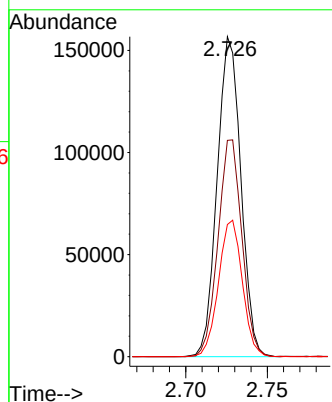
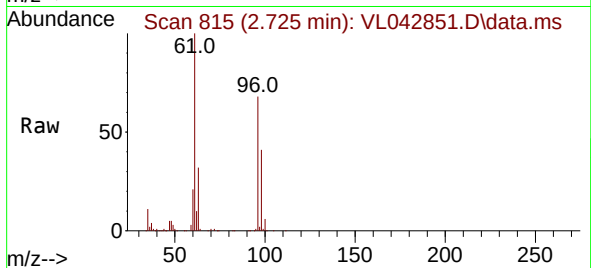




#31
 cis-1,2-Dichloroethene
 Concen: 9.199 ppbv
 RT: 2.725 min Scan# 815
 Delta R.T. -0.000 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

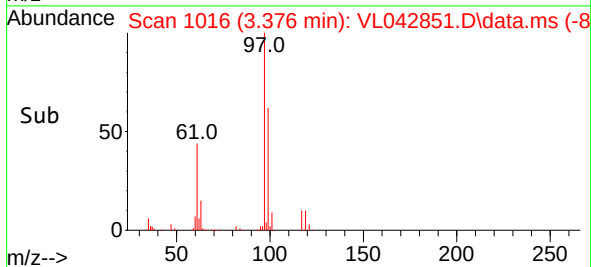
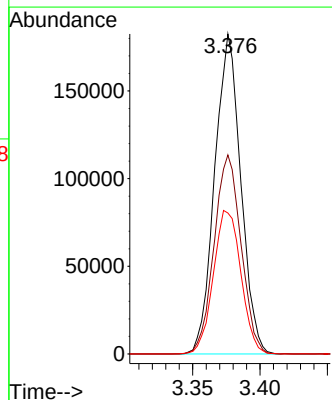
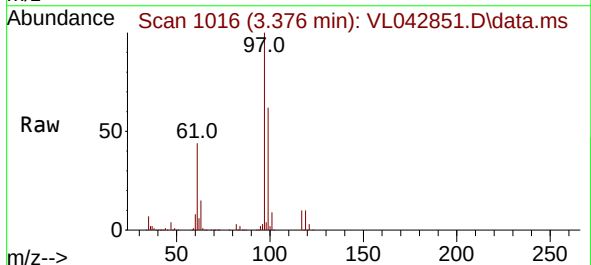
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABS01

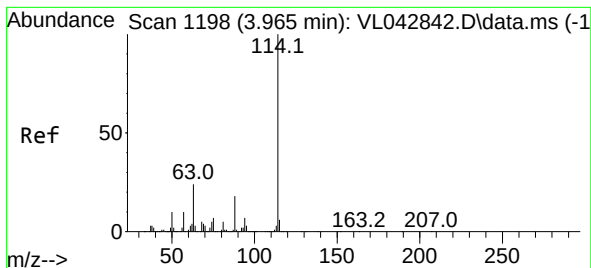
Tgt Ion: 61 Resp: 158712
 Ion Ratio Lower Upper
 61 100
 96 67.6 55.0 82.6
 98 41.3 34.3 51.5



#32
 1,1,1-Trichloroethane
 Concen: 9.431 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

Tgt Ion: 97 Resp: 245800
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.0 76.6
 61 47.4 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABS01

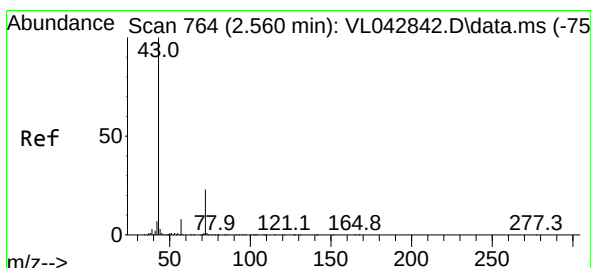
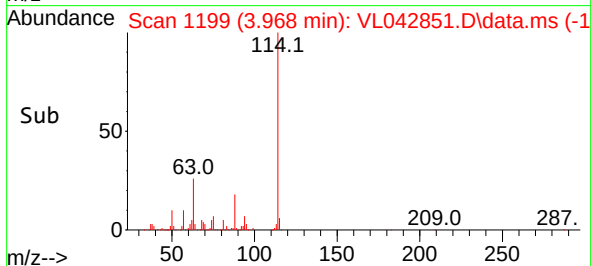
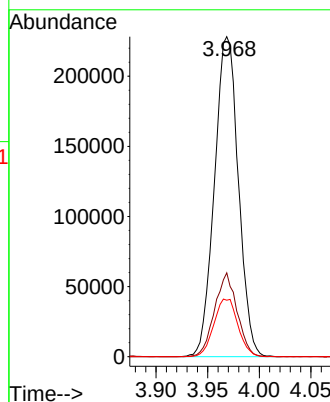
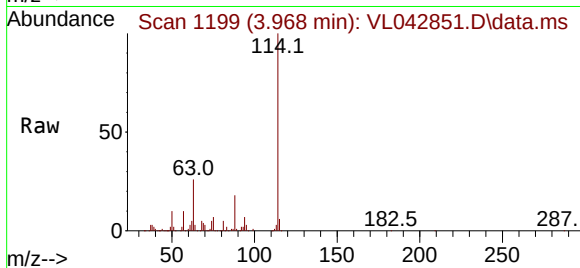
Tgt Ion:114 Resp: 368200

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

88 18.1 14.4 21.6



#34

2-Butanone

Concen: 9.016 ppbv

RT: 2.560 min Scan# 764

Delta R.T. -0.000 min

Lab File: VL042851.D

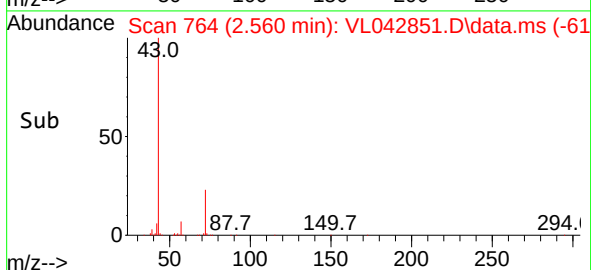
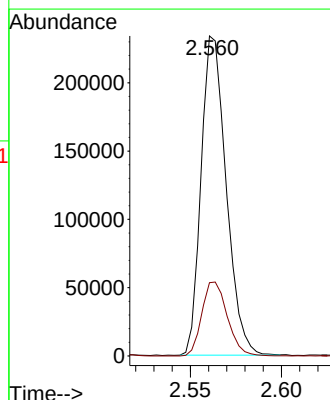
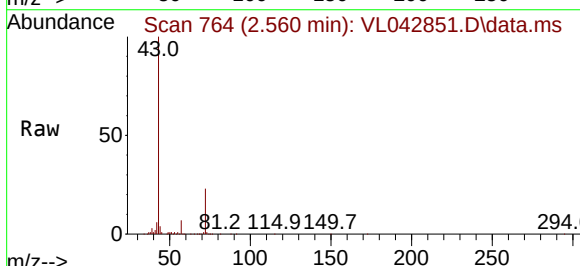
Acq: 13 Aug 2025 14:32

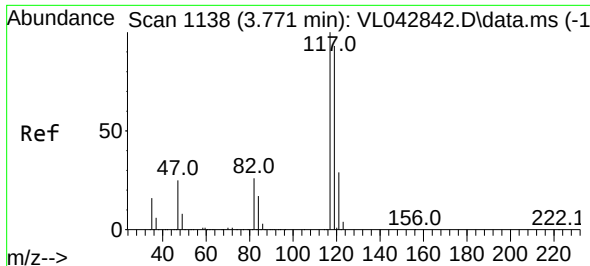
Tgt Ion: 43 Resp: 224149

Ion Ratio Lower Upper

43 100

72 23.5 18.6 28.0

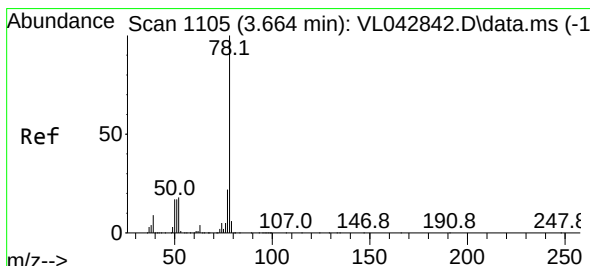
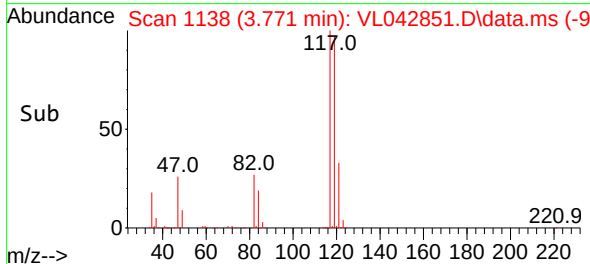
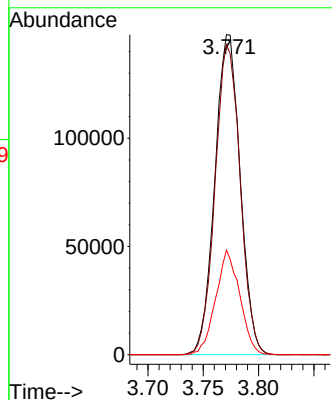
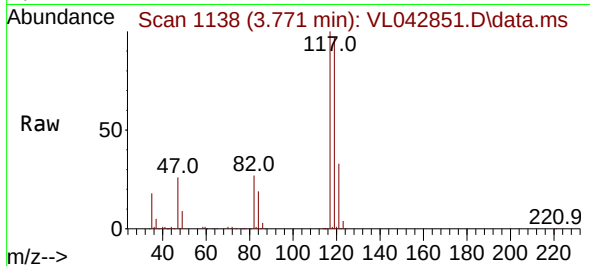




#35
Carbon Tetrachloride
Concen: 9.281 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

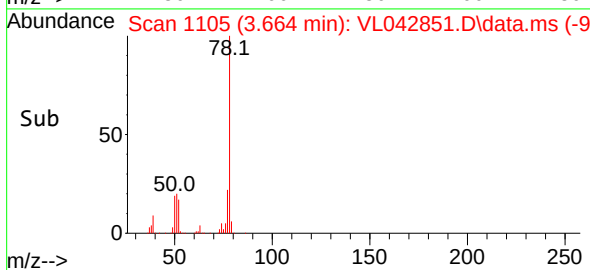
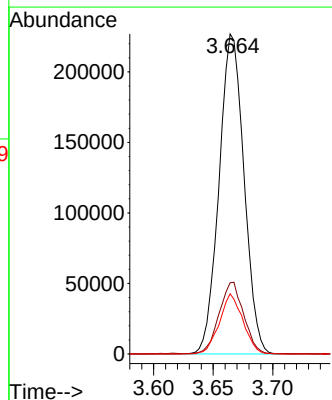
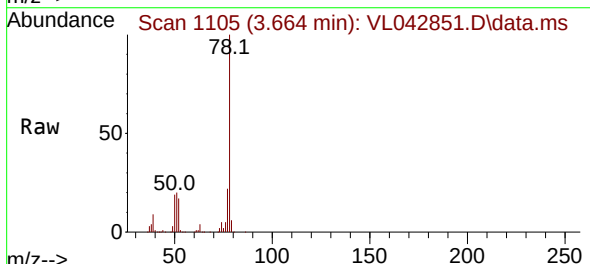
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

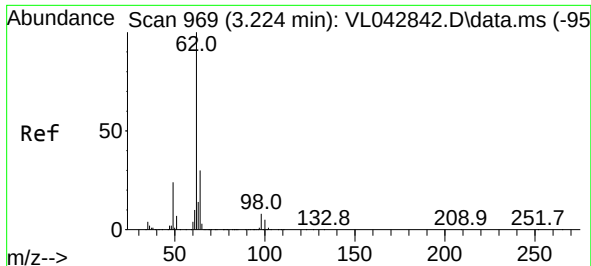
Tgt Ion:117 Resp: 235598
Ion Ratio Lower Upper
117 100
119 96.8 74.7 112.1
121 32.7 23.2 34.8



#36
Benzene
Concen: 9.360 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion: 78 Resp: 330026
Ion Ratio Lower Upper
78 100
77 22.2 17.7 26.5
50 18.8 13.9 20.9





#37

1,2-Dichloroethane

Concen: 9.874 ppbv

RT: 3.227 min Scan# 91

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

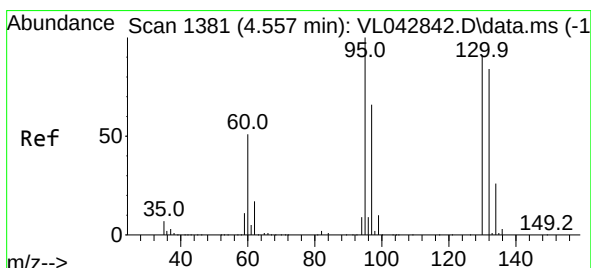
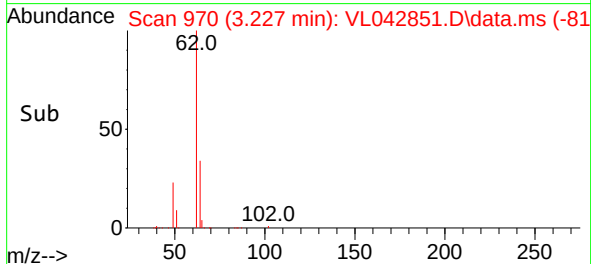
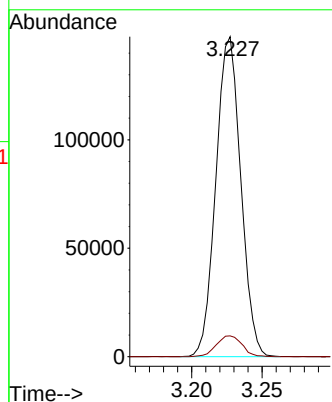
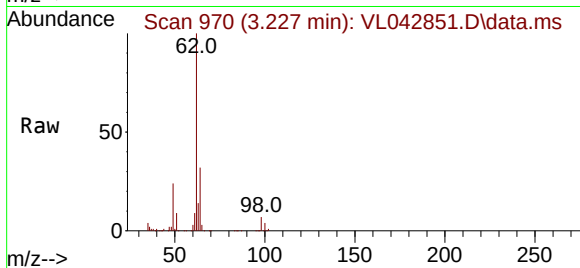
VL0813ABS01

Tgt Ion: 62 Resp: 181878

Ion Ratio Lower Upper

62 100

98 6.7 5.9 8.9



#38

Trichloroethene

Concen: 8.944 ppbv

RT: 4.557 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Tgt Ion:130 Resp: 144018

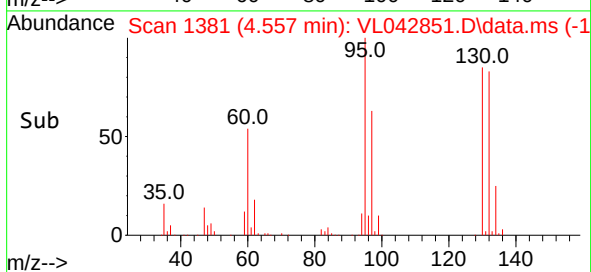
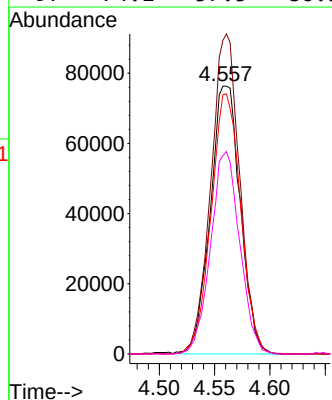
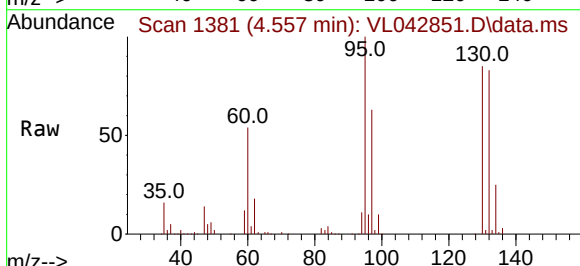
Ion Ratio Lower Upper

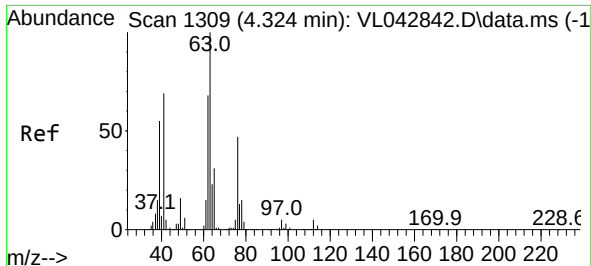
130 100

95 117.1 87.6 131.4

132 96.6 73.8 110.8

97 74.1 57.5 86.3





#39

1,2-Dichloropropane

Concen: 9.275 ppbv

RT: 4.324 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABS01

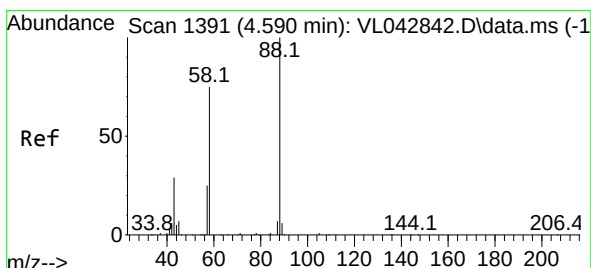
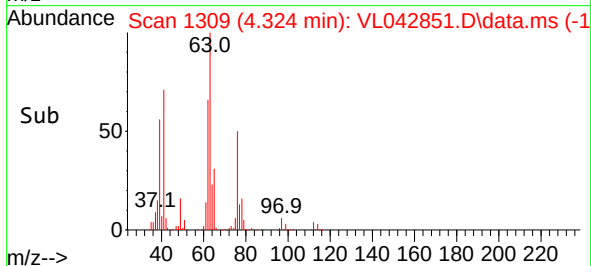
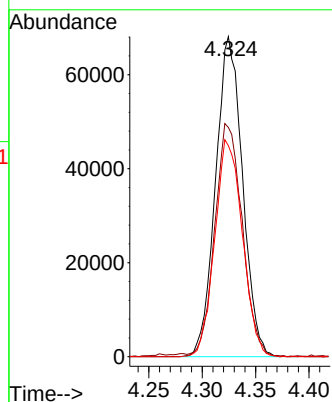
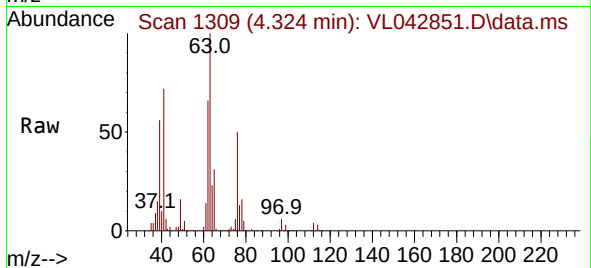
Tgt Ion: 63 Resp: 119442

Ion Ratio Lower Upper

63 100

41 71.4 55.0 82.4

62 66.0 54.4 81.6



#40

1,4-Dioxane

Concen: 8.683 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Tgt Ion: 88 Resp: 53171

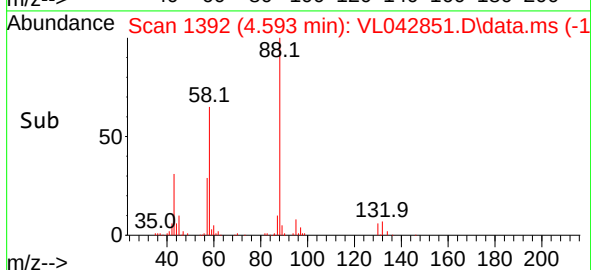
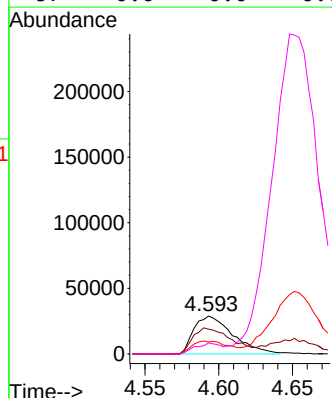
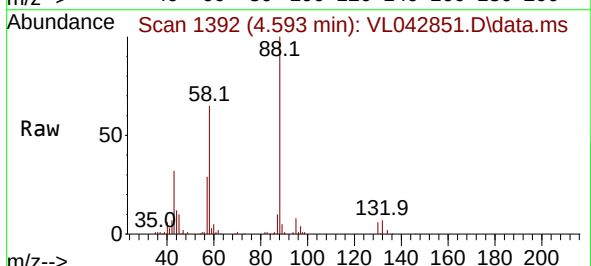
Ion Ratio Lower Upper

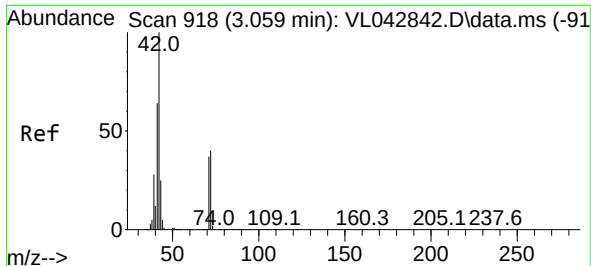
88 100

58 71.1 53.8 80.6

43 36.3 22.8 34.2#

57 0.0 0.0 0.0

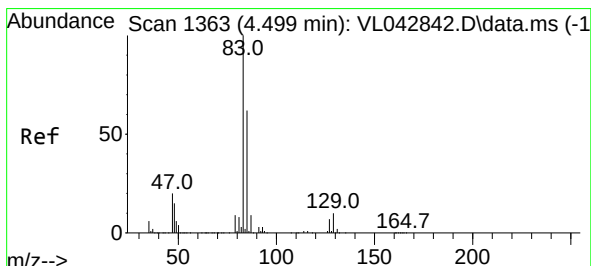
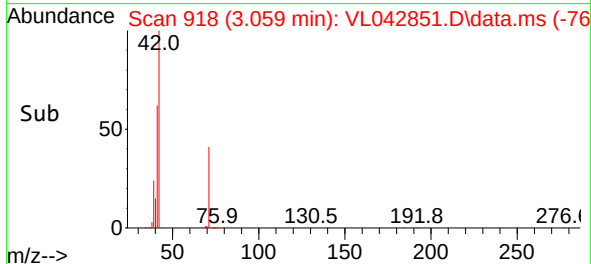
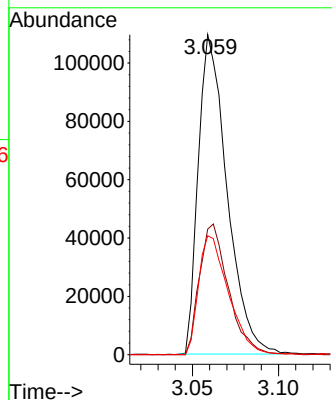
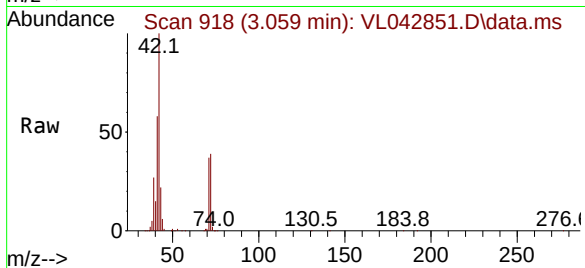




#41
Tetrahydrofuran
Concen: 9.204 ppbv
RT: 3.059 min Scan# 918
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

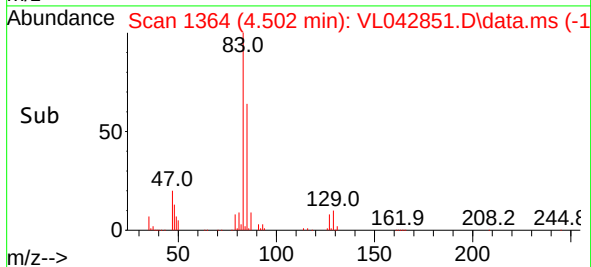
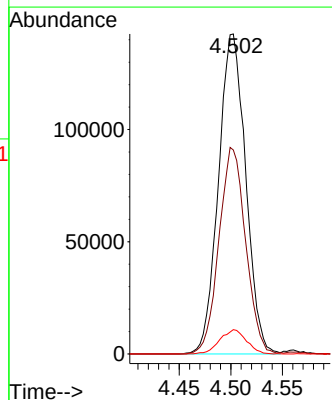
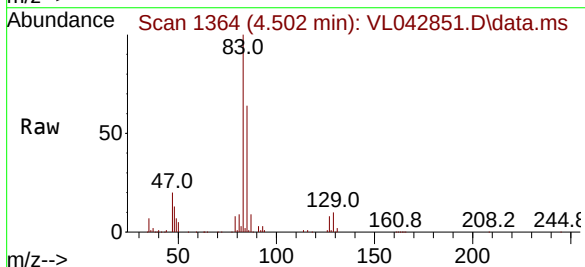
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

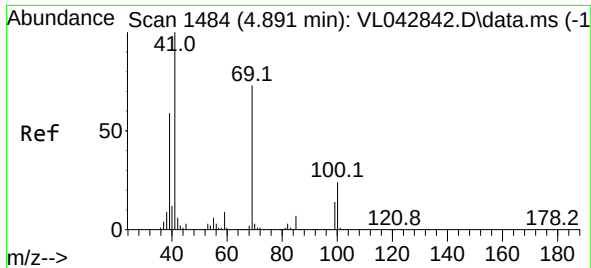
Tgt Ion: 42 Resp: 127578
Ion Ratio Lower Upper
42 100
72 41.2 32.6 48.8
71 38.9 30.0 45.0



#42
Bromodichloromethane
Concen: 9.522 ppbv
RT: 4.502 min Scan# 1364
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion: 83 Resp: 261380
Ion Ratio Lower Upper
83 100
85 63.8 49.8 74.8
127 7.6 5.8 8.6

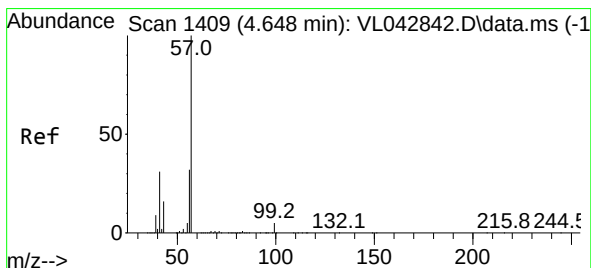
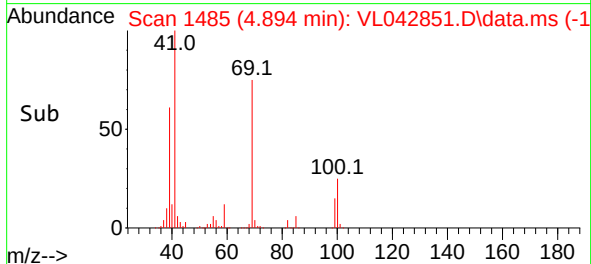
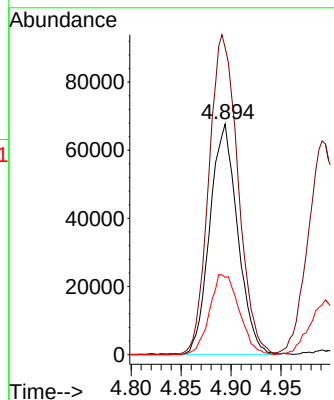
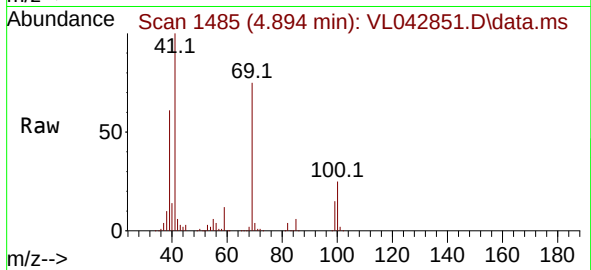




#43
Methyl Methacrylate
Concen: 9.042 ppbv
RT: 4.894 min Scan# 1484
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

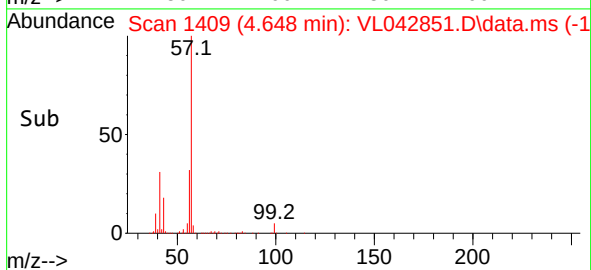
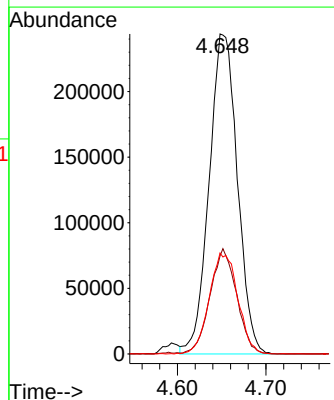
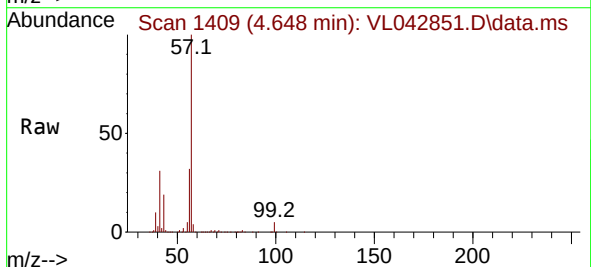
Instrument :
MSVOA_1
ClientSampleId :
VL0813ABS01

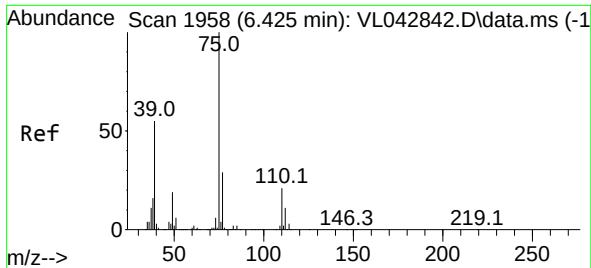
Tgt Ion: 69 Resp: 131335
Ion Ratio Lower Upper
69 100
41 145.5 114.6 172.0
100 36.8 30.2 45.4



#44
2,2,4-Trimethylpentane
Concen: 9.039 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion: 57 Resp: 540935
Ion Ratio Lower Upper
57 100
41 31.5 24.8 37.2
56 31.9 25.5 38.3

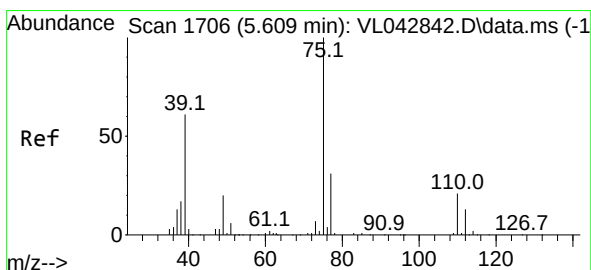
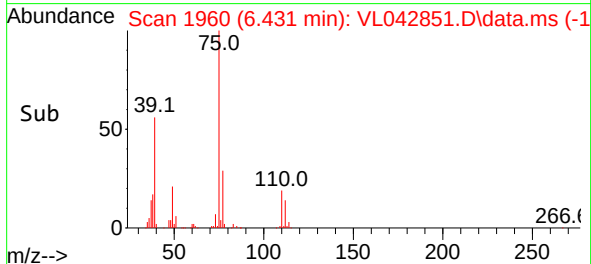
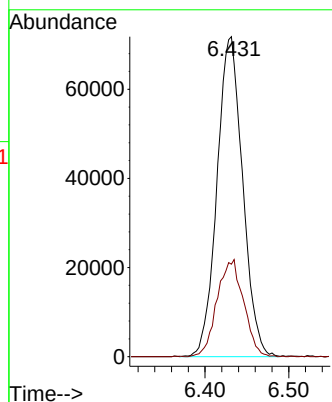
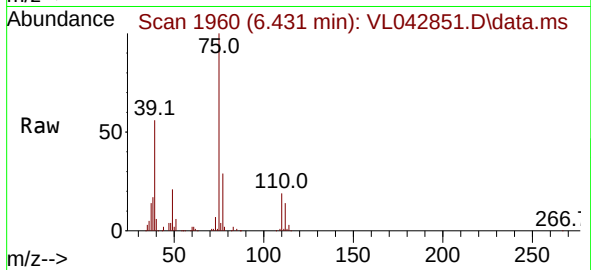




#45
 t-1,3-Dichloropropene
 Concen: 9.309 ppbv
 RT: 6.431 min Scan# 1958
 Delta R.T. 0.006 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

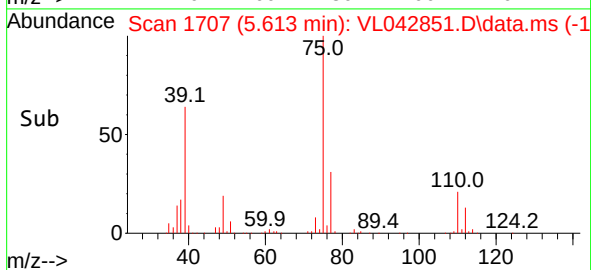
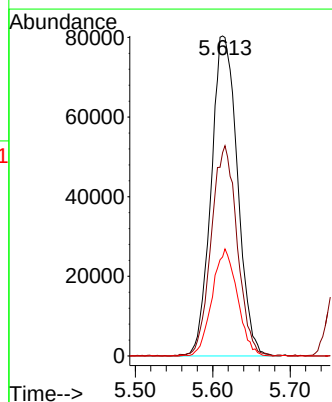
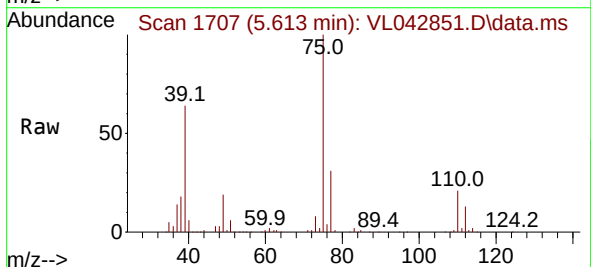
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0813ABS01

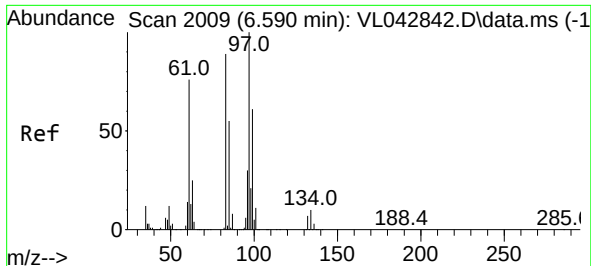
Tgt Ion: 75 Resp: 152588
 Ion Ratio Lower Upper
 75 100
 77 28.9 23.8 35.6



#46
 cis-1,3-Dichloropropene
 Concen: 9.285 ppbv
 RT: 5.613 min Scan# 1707
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

Tgt Ion: 75 Resp: 189646
 Ion Ratio Lower Upper
 75 100
 39 63.2 48.9 73.3
 77 30.9 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 9.357 ppbv

RT: 6.597 min Scan# 20

Delta R.T. 0.006 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABS01

Tgt Ion: 97 Resp: 127667

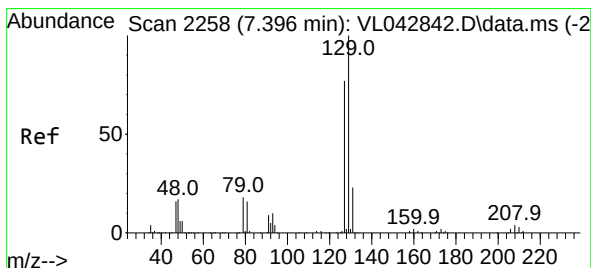
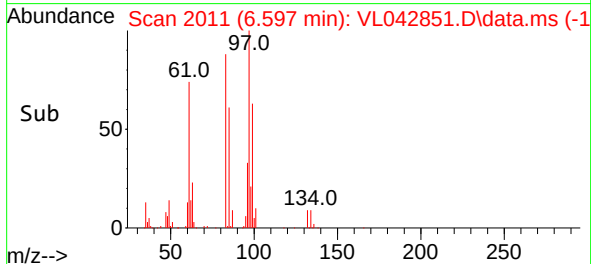
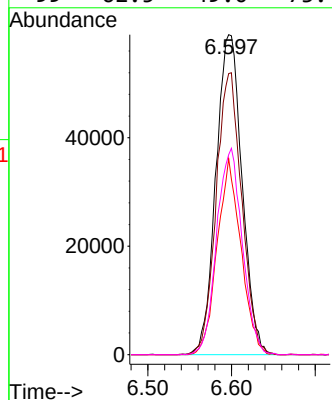
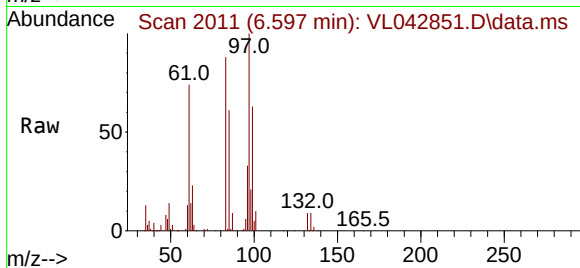
Ion Ratio Lower Upper

97 100

83 87.8 71.0 106.4

85 61.3 43.6 65.4

99 62.5 49.0 73.4



#48

Dibromochloromethane

Concen: 9.412 ppbv

RT: 7.402 min Scan# 2260

Delta R.T. 0.006 min

Lab File: VL042851.D

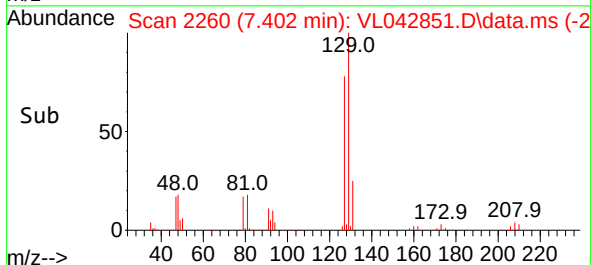
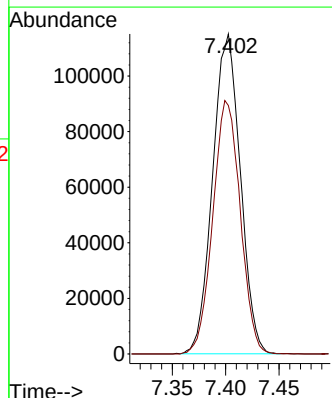
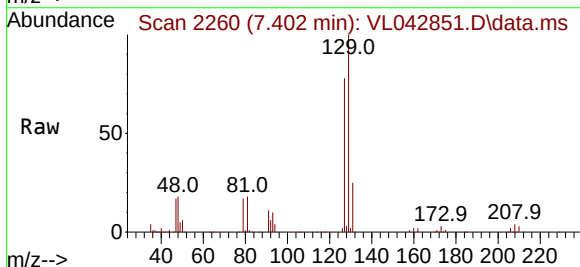
Acq: 13 Aug 2025 14:32

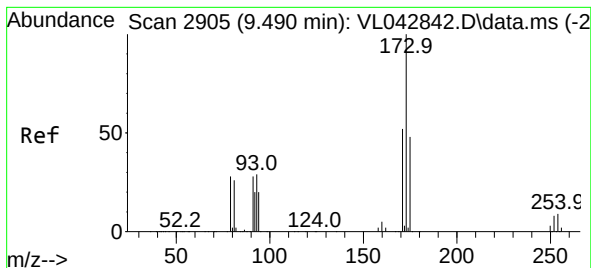
Tgt Ion: 129 Resp: 207804

Ion Ratio Lower Upper

129 100

127 78.4 39.4 118.2





#49

Bromoform

Concen: 9.228 ppbv

RT: 9.493 min Scan# 2905

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABS01

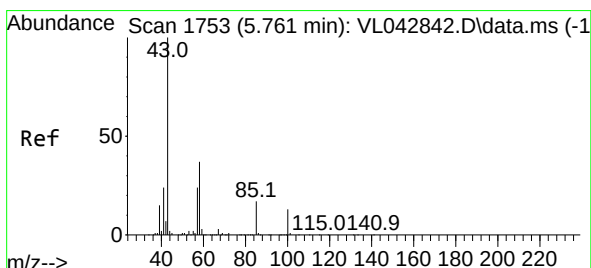
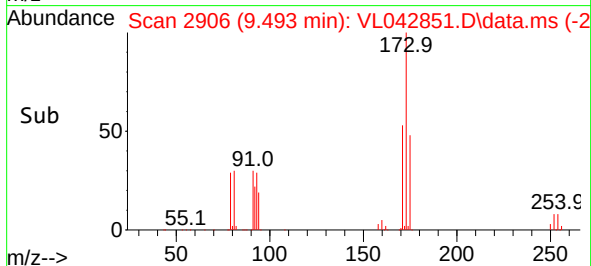
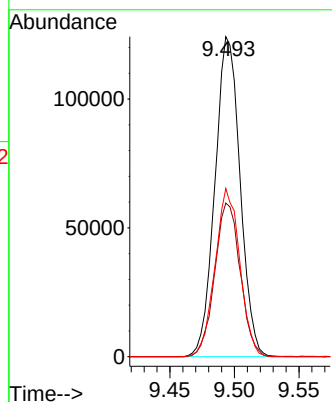
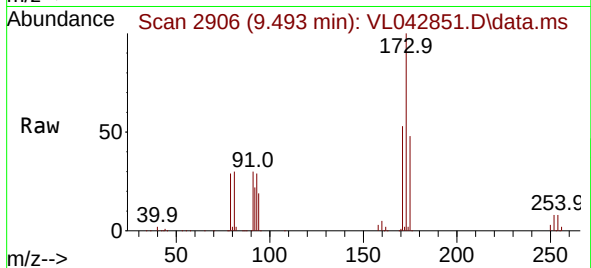
Tgt Ion:173 Resp: 168015

Ion Ratio Lower Upper

173 100

175 48.7 39.2 58.8

171 51.7 41.3 61.9



#50

4-Methyl-2-Pentanone

Concen: 9.286 ppbv

RT: 5.768 min Scan# 1755

Delta R.T. 0.006 min

Lab File: VL042851.D

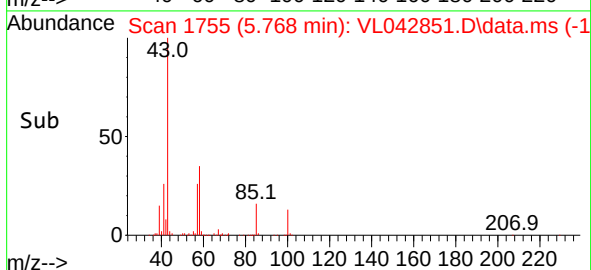
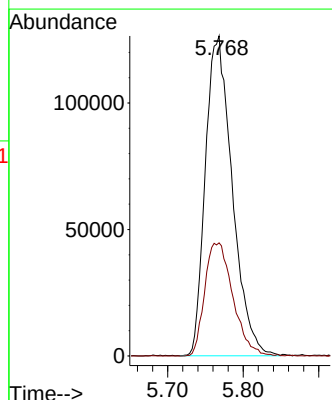
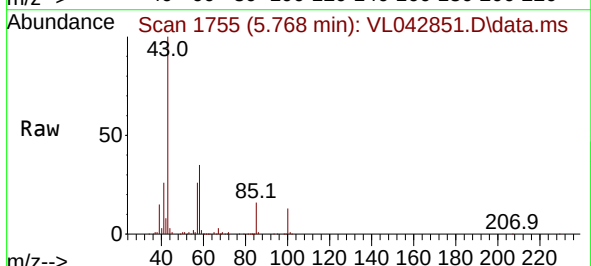
Acq: 13 Aug 2025 14:32

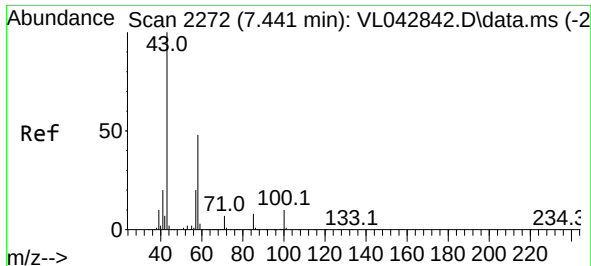
Tgt Ion: 43 Resp: 312046

Ion Ratio Lower Upper

43 100

58 37.2 29.8 44.8

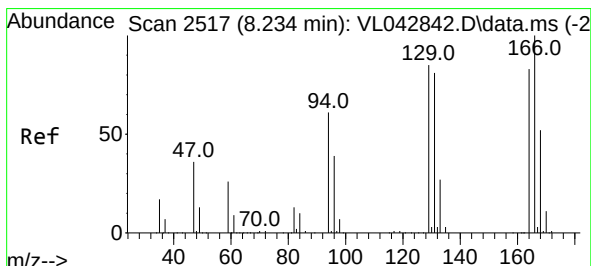
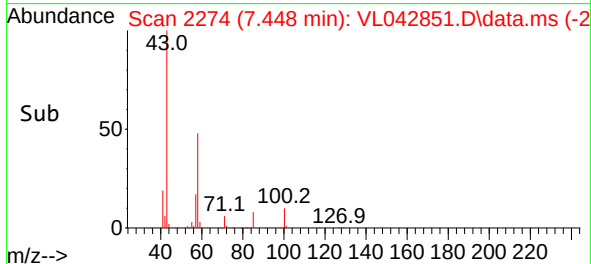
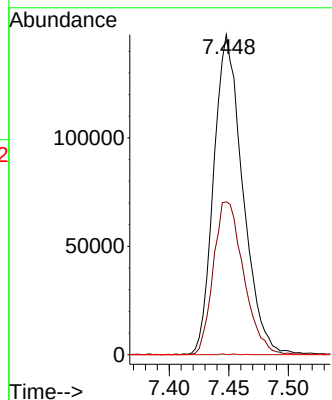
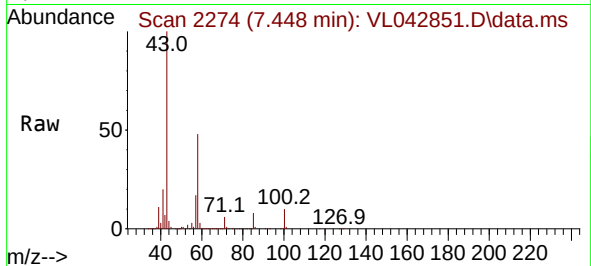




#51
2-Hexanone
Concen: 9.404 ppbv
RT: 7.448 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

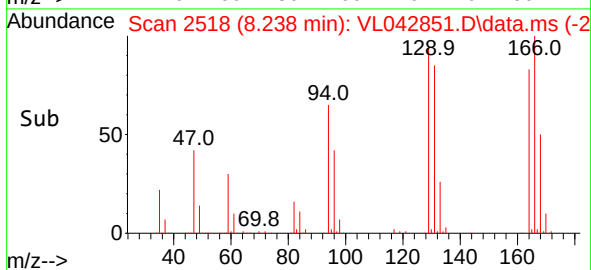
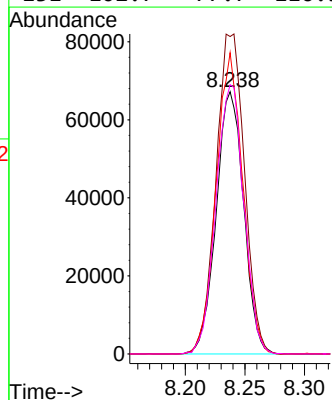
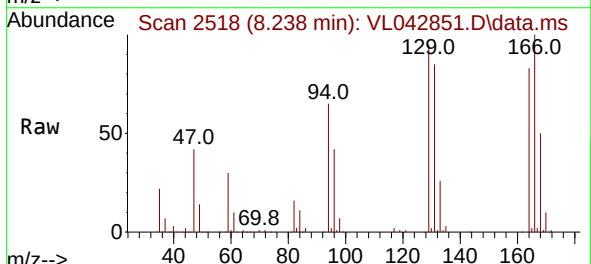
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

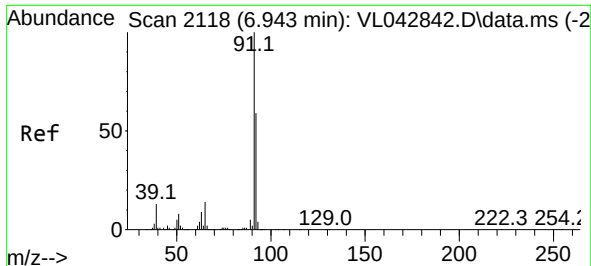
Tgt Ion: 43 Resp: 248690
Ion Ratio Lower Upper
43 100
58 50.3 41.0 61.6
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 8.434 ppbv
RT: 8.238 min Scan# 2518
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion:164 Resp: 107577
Ion Ratio Lower Upper
164 100
166 121.0 96.5 144.7
129 114.9 81.8 122.6
131 102.7 77.7 116.5

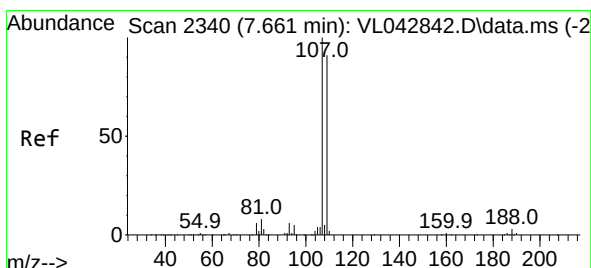
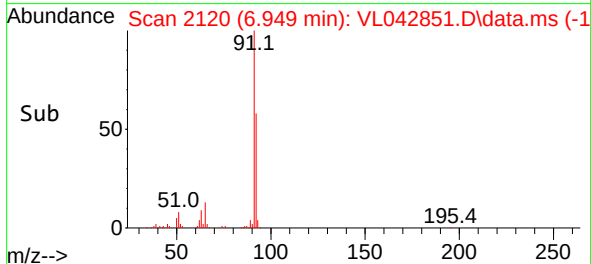
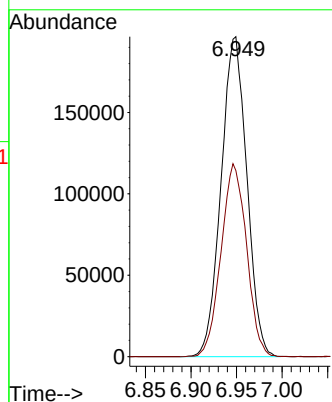
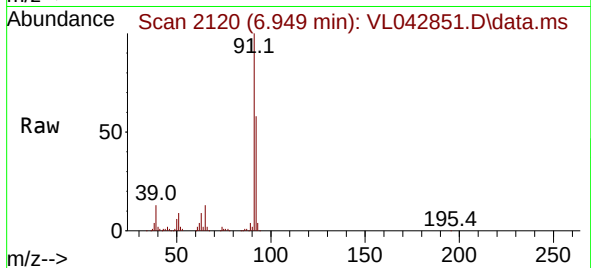




#53
Toluene
Concen: 9.216 ppbv
RT: 6.949 min Scan# 2118
Delta R.T. 0.006 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

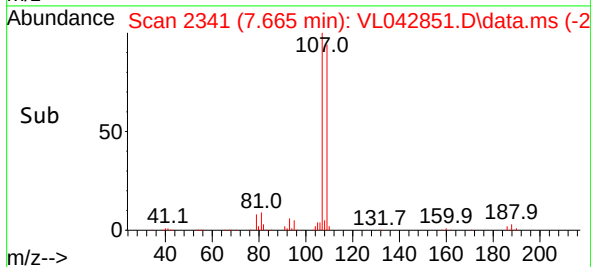
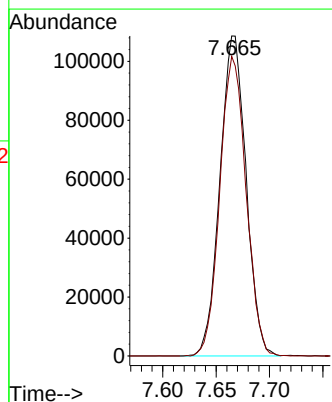
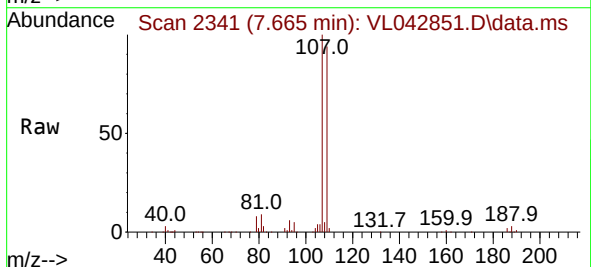
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

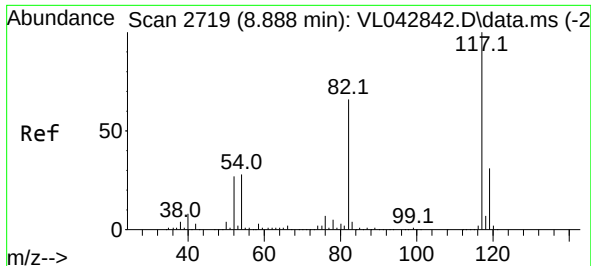
Tgt Ion: 91 Resp: 386291
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6



#54
1,2-Dibromoethane
Concen: 9.275 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion: 107 Resp: 184932
Ion Ratio Lower Upper
107 100
109 93.6 72.5 108.7

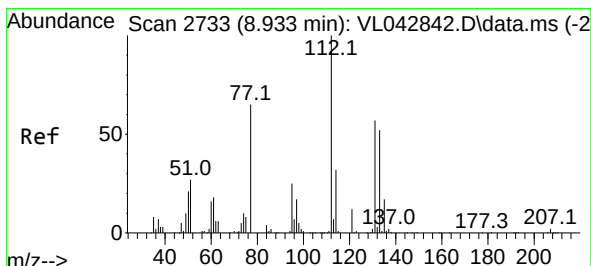
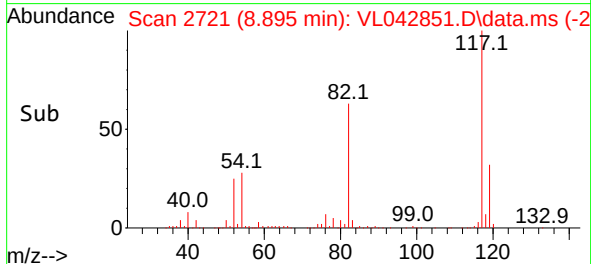
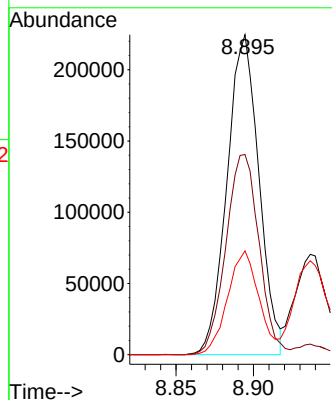
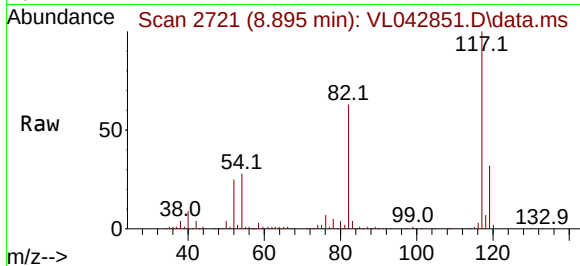




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2719
Delta R.T. 0.006 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

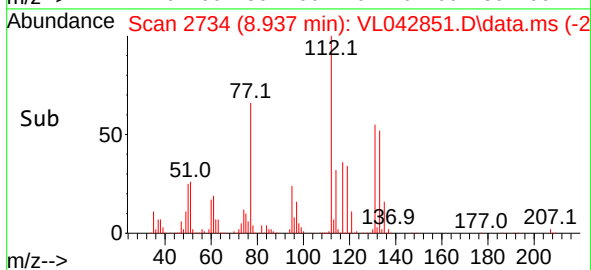
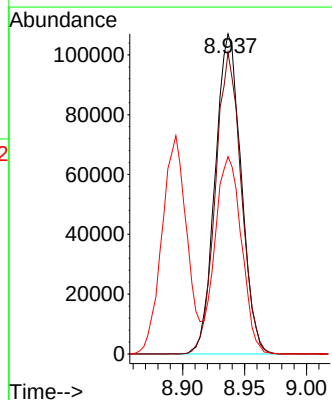
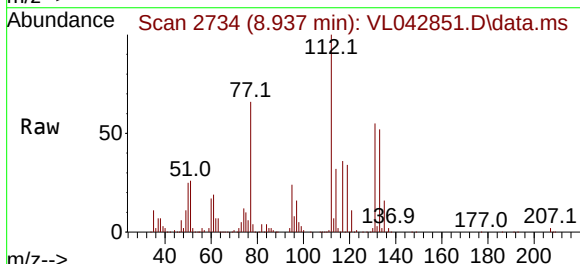
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

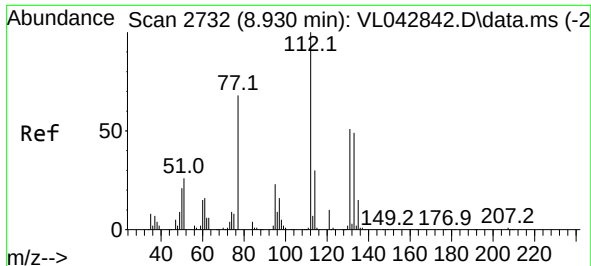
Tgt Ion:117 Resp: 322291
Ion Ratio Lower Upper
117 100
82 67.9 54.6 81.8
119 31.0 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 9.381 ppbv
RT: 8.937 min Scan# 2734
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion:131 Resp: 156352
Ion Ratio Lower Upper
131 100
133 93.5 77.4 116.0
119 63.4 51.2 76.8

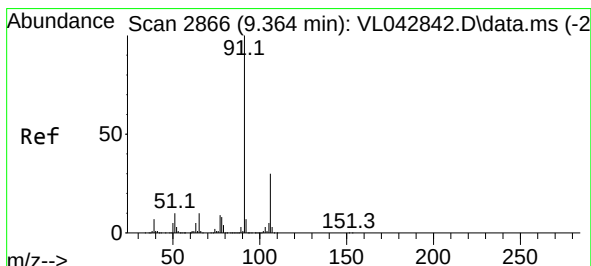
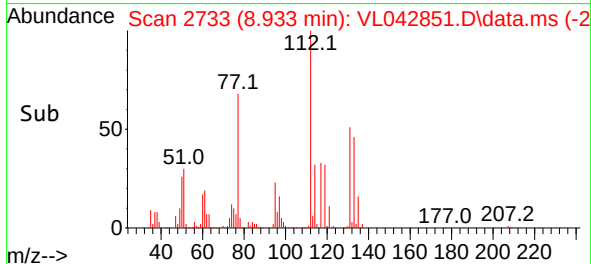
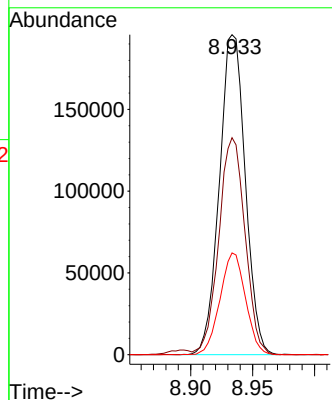
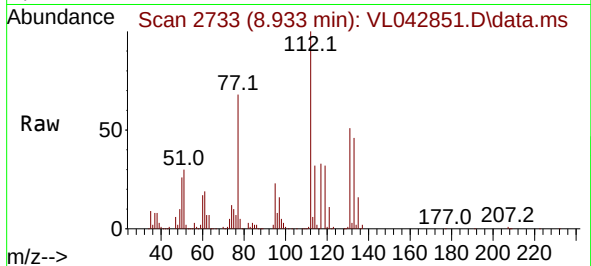




#57
Chlorobenzene
Concen: 9.326 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

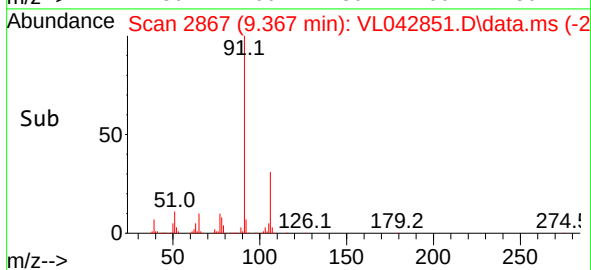
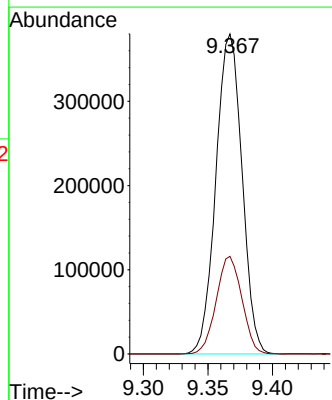
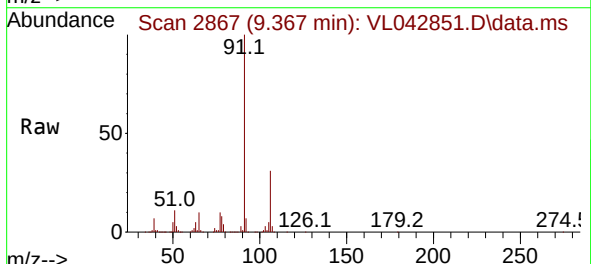
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

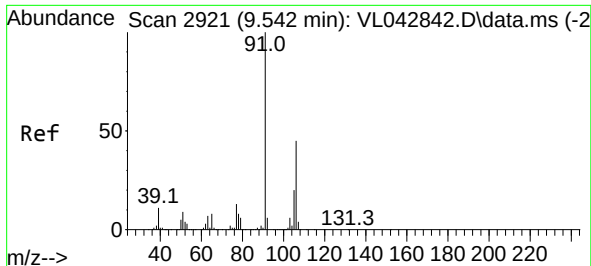
Tgt Ion:112 Resp: 285789
Ion Ratio Lower Upper
112 100
77 67.7 55.5 83.3
114 31.8 27.2 33.2



#58
Ethyl Benzene
Concen: 9.389 ppbv
RT: 9.367 min Scan# 2867
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion: 91 Resp: 534013
Ion Ratio Lower Upper
91 100
106 30.5 23.9 35.9





#59

m/p-Xylene

Concen: 9.381 ppbv

RT: 9.545 min Scan# 2921

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

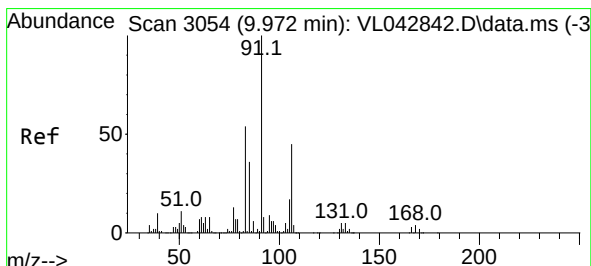
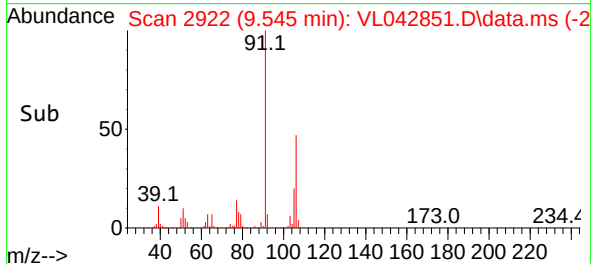
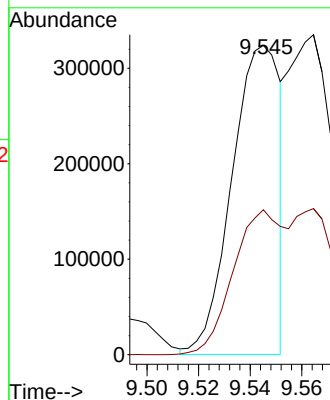
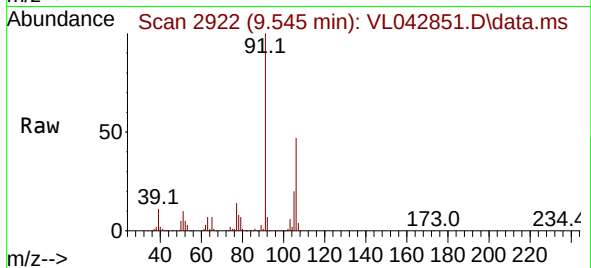
VL0813ABS01

Tgt Ion: 91 Resp: 418211

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 9.308 ppbv

RT: 9.976 min Scan# 3055

Delta R.T. 0.003 min

Lab File: VL042851.D

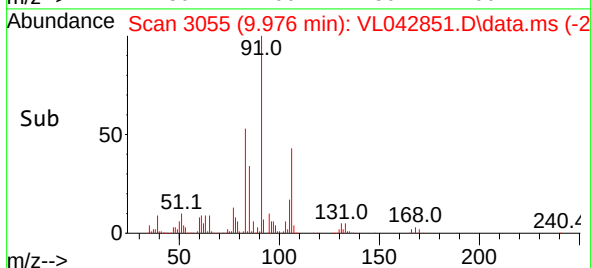
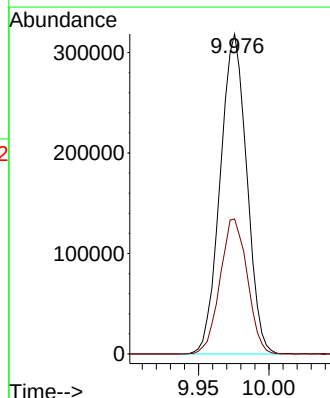
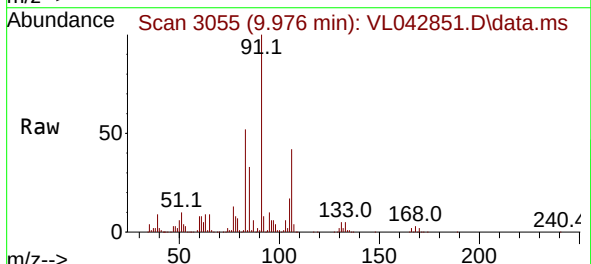
Acq: 13 Aug 2025 14:32

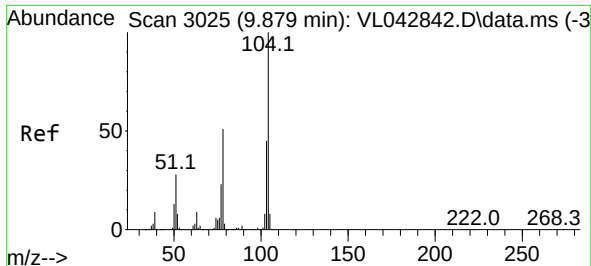
Tgt Ion: 91 Resp: 417423

Ion Ratio Lower Upper

91 100

106 43.4 21.8 65.4

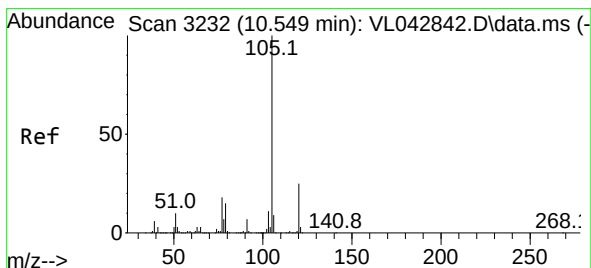
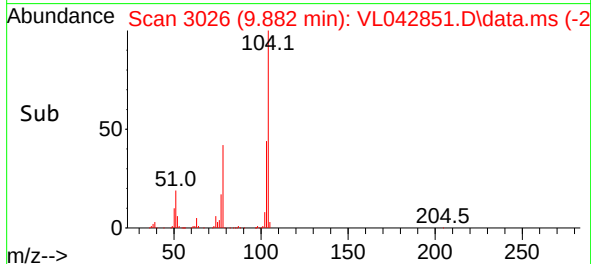
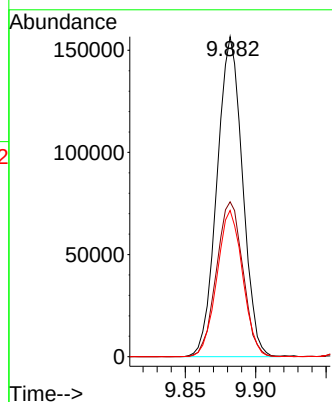
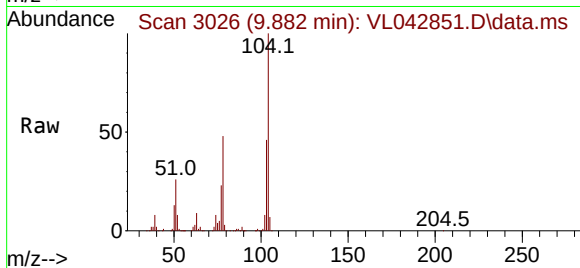




#61
Styrene
Concen: 9.414 ppbv
RT: 9.882 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

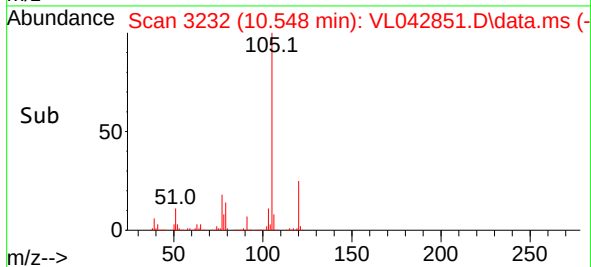
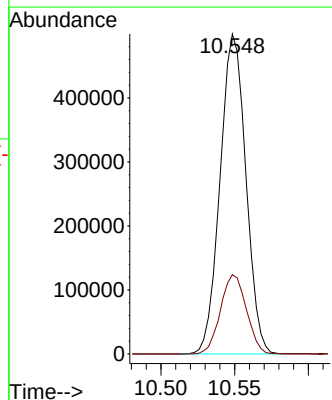
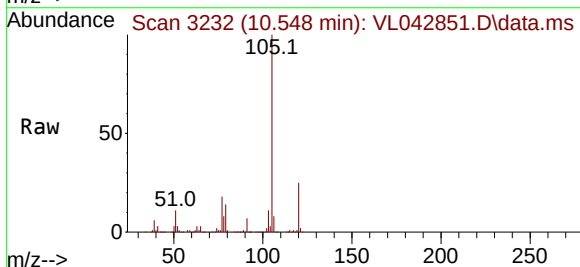
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

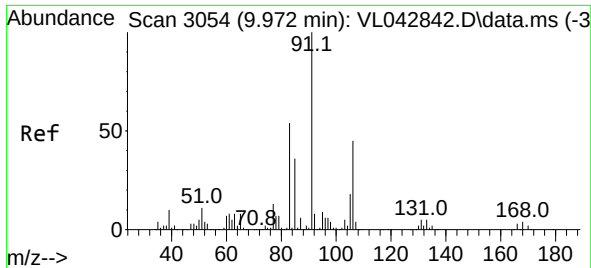
Tgt Ion:104 Resp: 197790
Ion Ratio Lower Upper
104 100
78 50.3 40.6 61.0
103 46.1 37.7 56.5



#62
Isopropylbenzene
Concen: 9.271 ppbv
RT: 10.548 min Scan# 3232
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion:105 Resp: 607606
Ion Ratio Lower Upper
105 100
120 24.9 20.6 30.8

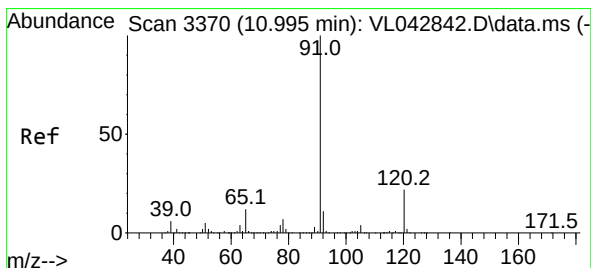
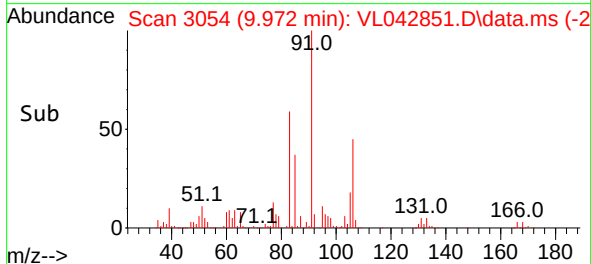
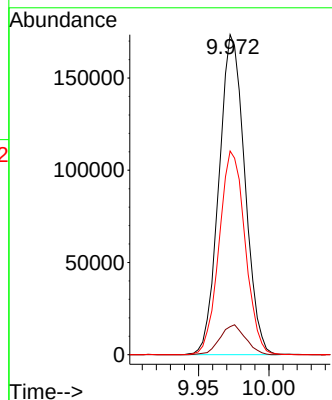
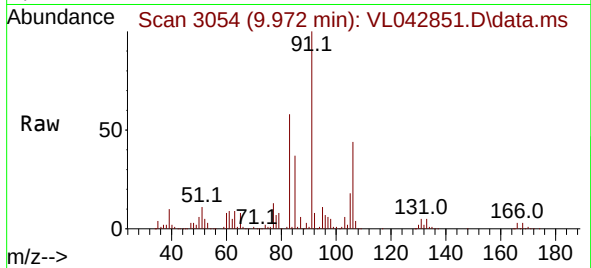




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.990 ppbv
 RT: 9.972 min Scan# 3054
 Delta R.T. -0.000 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

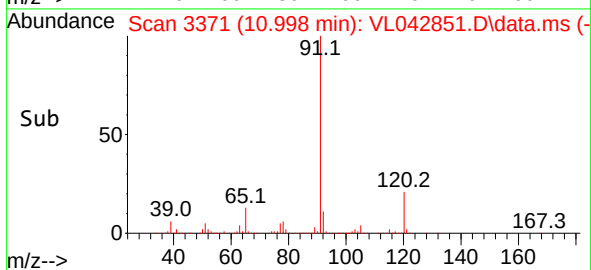
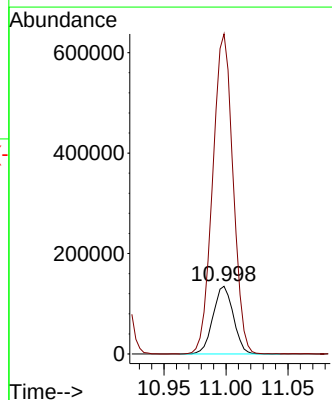
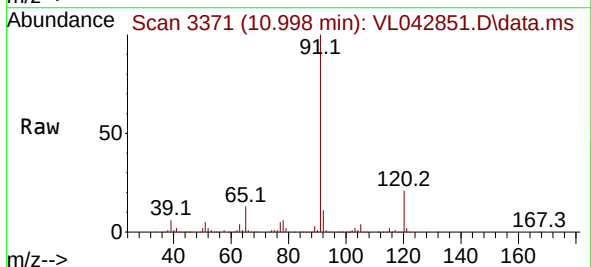
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0813ABS01

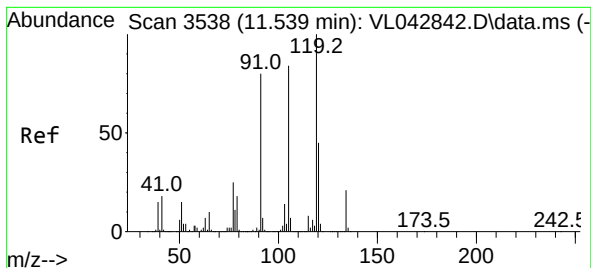
Tgt Ion: 83 Resp: 221716
 Ion Ratio Lower Upper
 83 100
 131 9.3 4.8 14.3
 85 64.1 32.3 96.8



#64
 n-propylbenzene
 Concen: 9.205 ppbv
 RT: 10.998 min Scan# 3371
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

Tgt Ion:120 Resp: 153914
 Ion Ratio Lower Upper
 120 100
 91 475.5 375.8 563.6

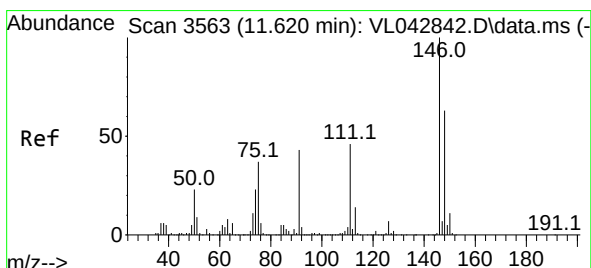
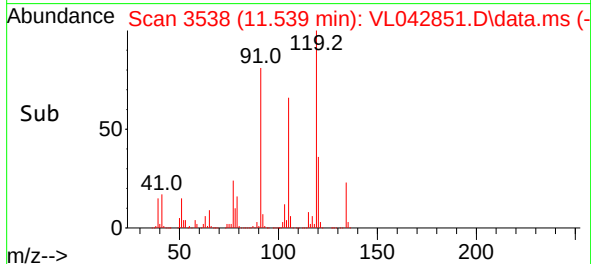
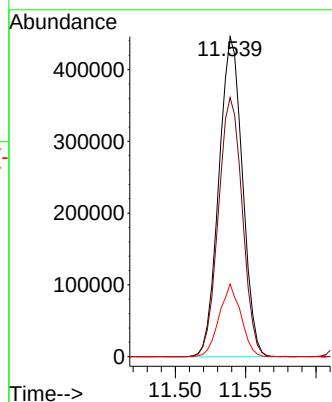
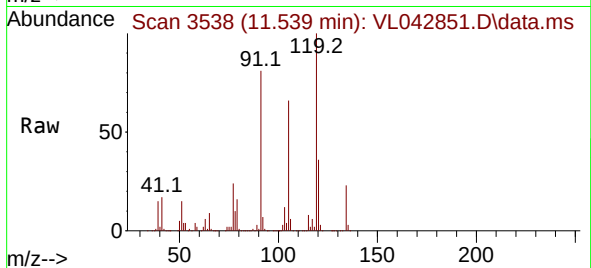




#65
tert-Butylbenzene
Concen: 8.983 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

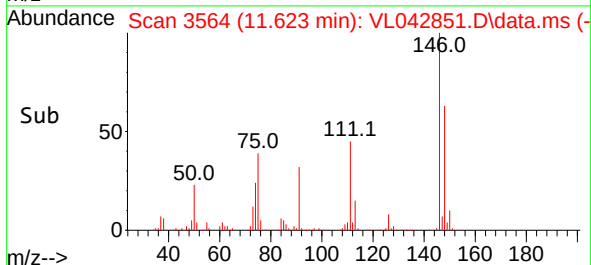
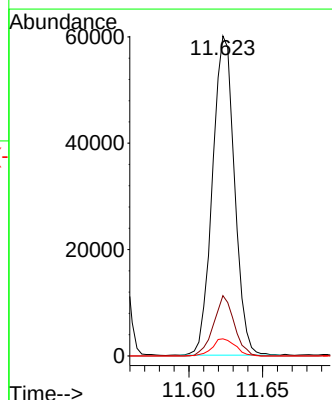
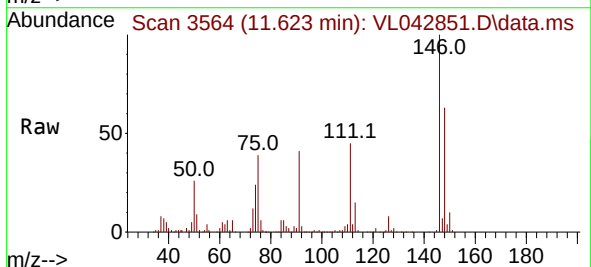
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

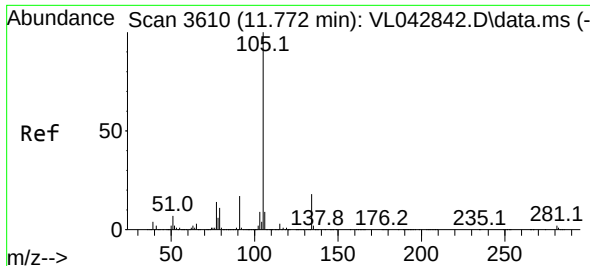
Tgt Ion:119 Resp: 518992
Ion Ratio Lower Upper
119 100
91 82.2 63.9 95.9
134 21.0 17.0 25.4



#66
Benzyl Chloride
Concen: 8.494 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion: 91 Resp: 62299
Ion Ratio Lower Upper
91 100
126 17.7 14.2 21.4
128 5.7 5.0 7.6

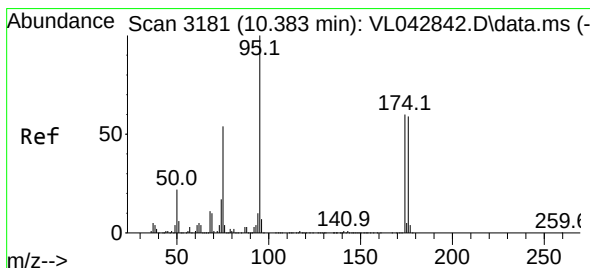
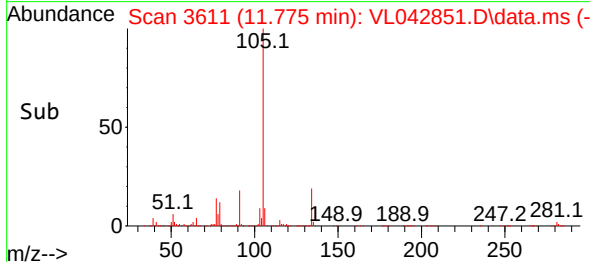
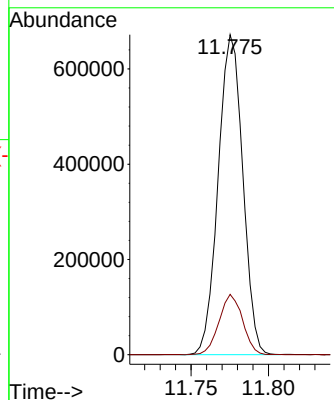
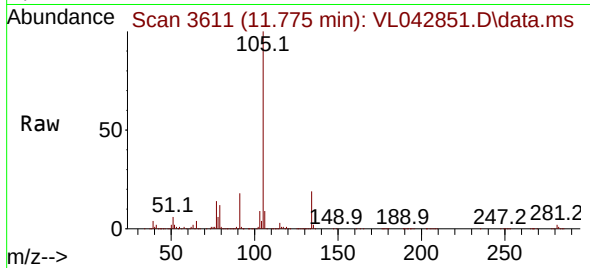




#67
 sec-Butylbenzene
 Concen: 9.141 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

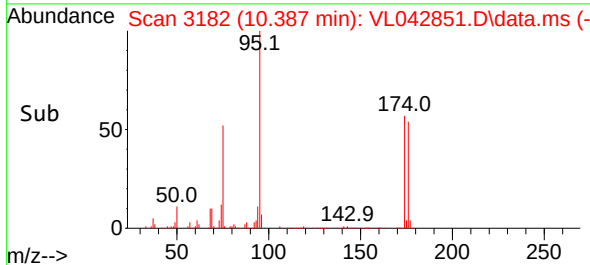
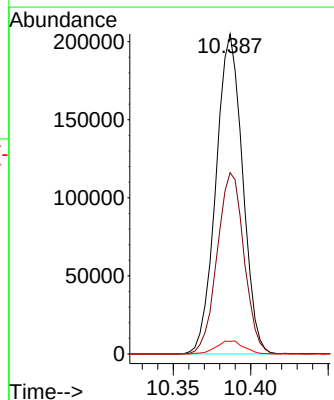
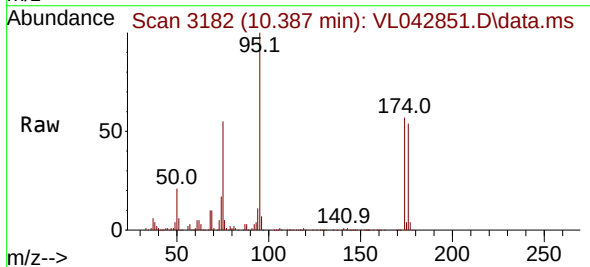
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0813ABS01

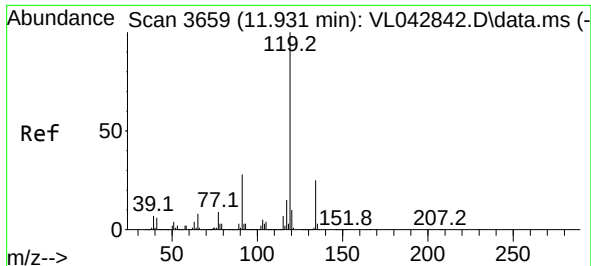
Tgt Ion:105 Resp: 741280
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.134 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

Tgt Ion: 95 Resp: 244955
 Ion Ratio Lower Upper
 95 100
 174 57.3 48.4 72.6
 175 4.2 3.8 5.8

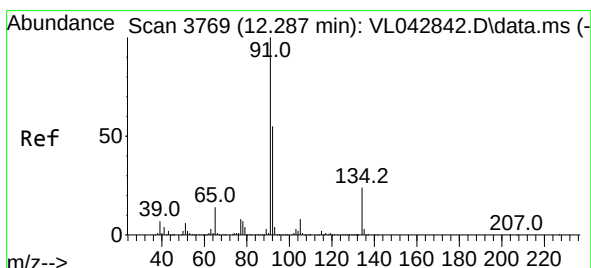
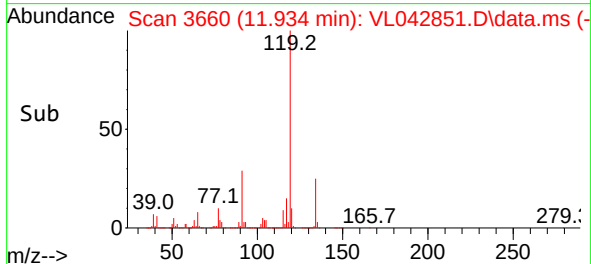
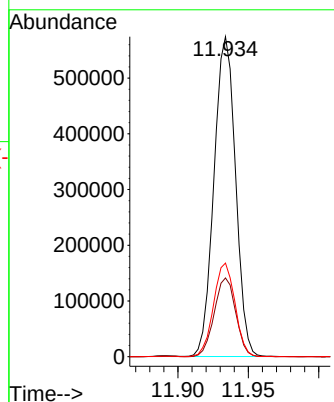
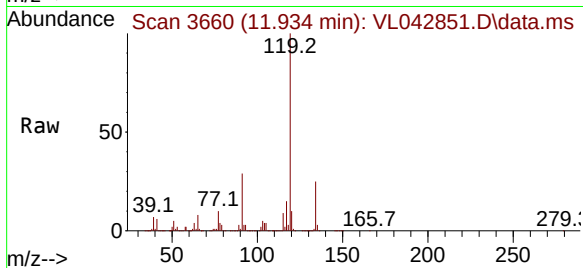




#69
 p-Isopropyltoluene
 Concen: 8.795 ppbv
 RT: 11.934 min Scan# 3660
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

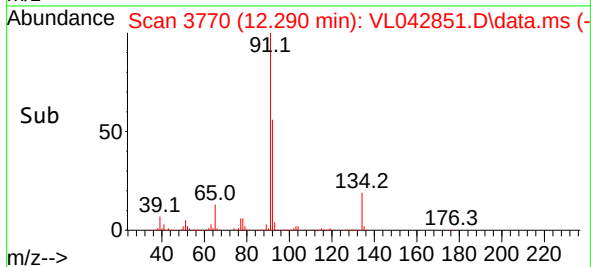
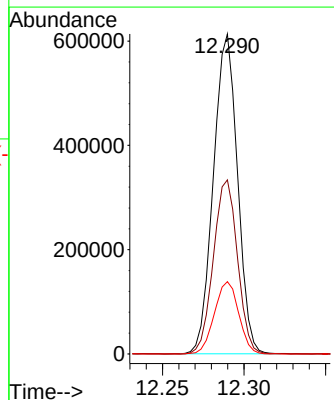
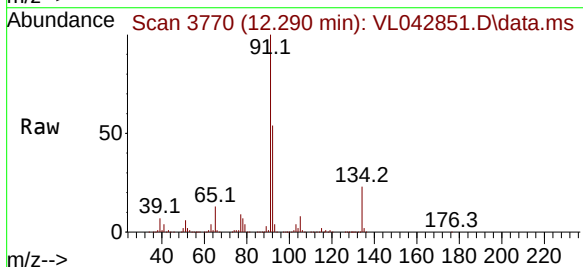
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABS01

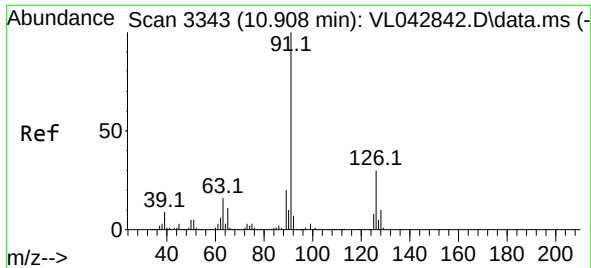
Tgt Ion:119 Resp: 612316
 Ion Ratio Lower Upper
 119 100
 134 24.7 20.6 30.8
 91 29.3 22.6 34.0



#70
 n-Butylbenzene
 Concen: 9.122 ppbv
 RT: 12.290 min Scan# 3770
 Delta R.T. 0.003 min
 Lab File: VL042851.D
 Acq: 13 Aug 2025 14:32

Tgt Ion: 91 Resp: 629840
 Ion Ratio Lower Upper
 91 100
 92 54.6 44.6 66.8
 134 22.9 19.0 28.4

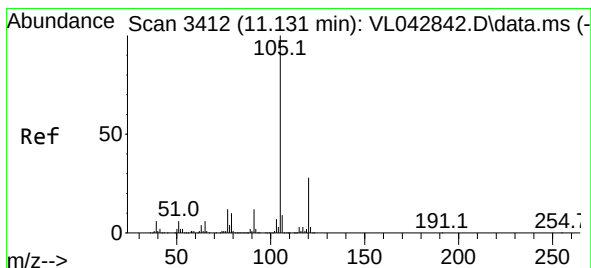
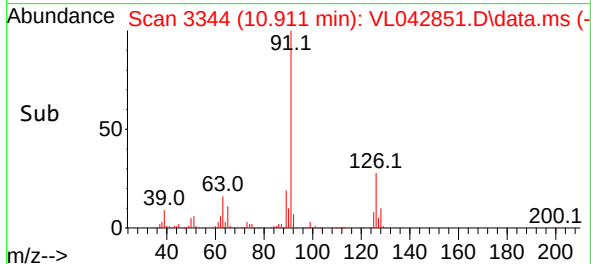
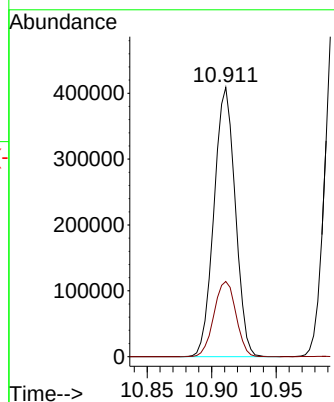
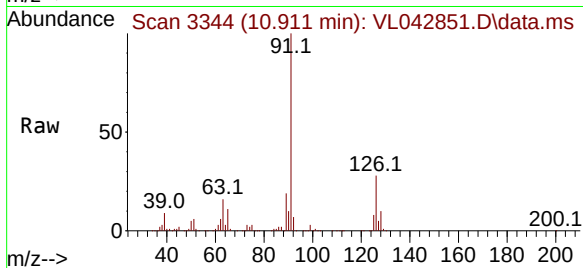




#71
2-Chlorotoluene
Concen: 9.188 ppbv
RT: 10.911 min Scan# 311
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

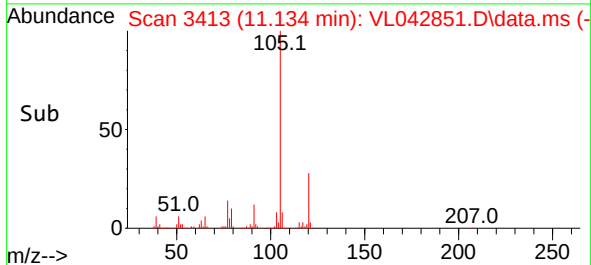
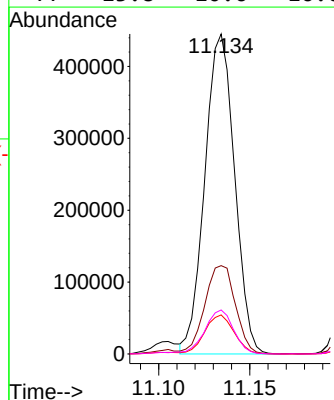
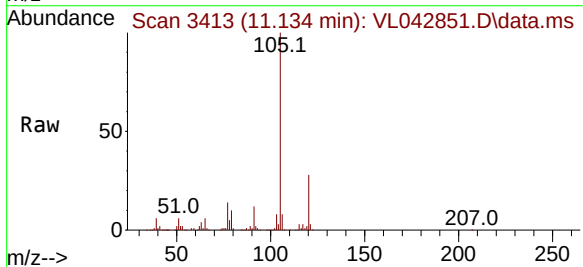
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABS01

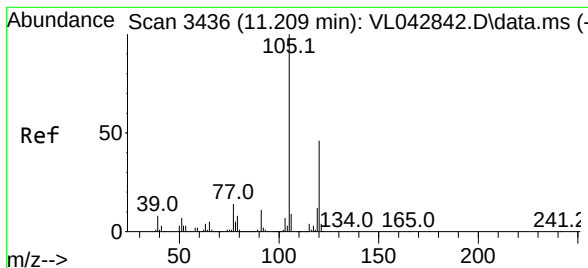
Tgt Ion: 91 Resp: 467569
Ion Ratio Lower Upper
91 100
126 28.9 12.0 47.8



#72
4-Ethyltoluene
Concen: 9.297 ppbv
RT: 11.134 min Scan# 3413
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion: 105 Resp: 505391
Ion Ratio Lower Upper
105 100
120 29.5 23.4 35.2
91 12.6 9.8 14.6
77 13.8 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 9.210 ppbv

RT: 11.212 min Scan# 34

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

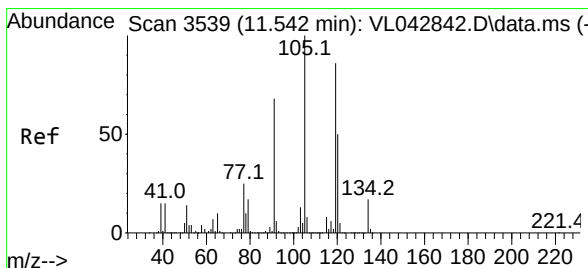
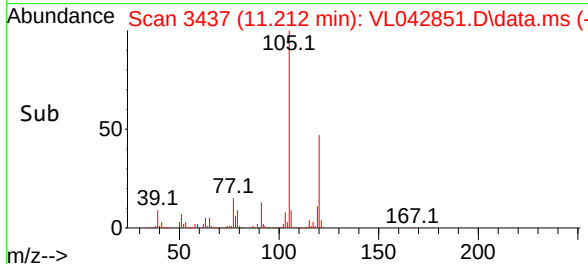
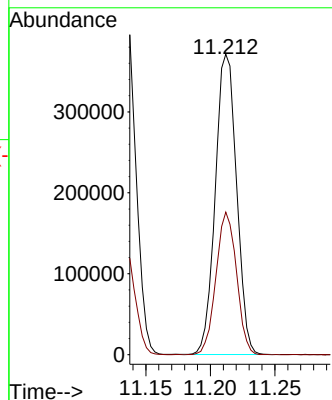
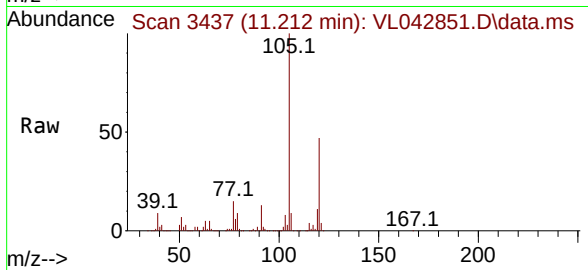
VL0813ABS01

Tgt Ion:105 Resp: 425759

Ion Ratio Lower Upper

105 100

120 47.5 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 9.005 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Tgt Ion:105 Resp: 456933

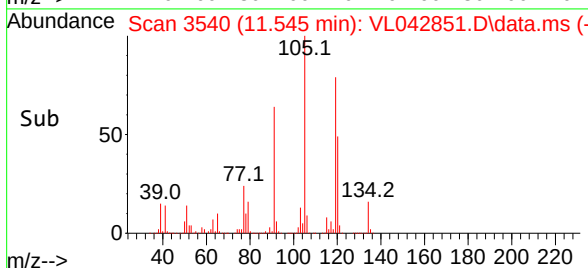
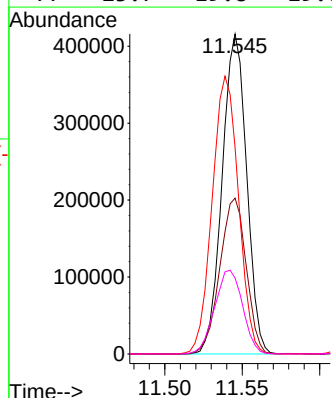
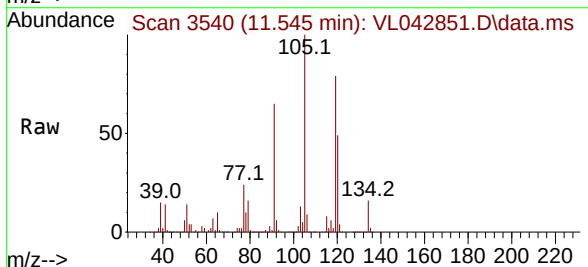
Ion Ratio Lower Upper

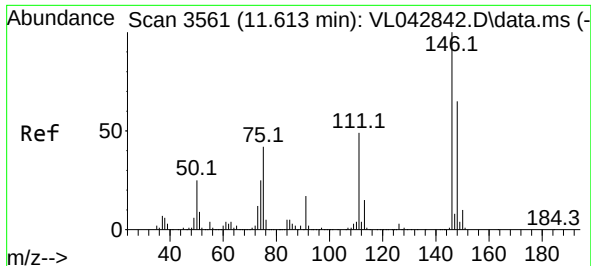
105 100

120 48.7 39.8 59.6

91 64.5 54.2 81.4

77 23.7 19.8 29.6

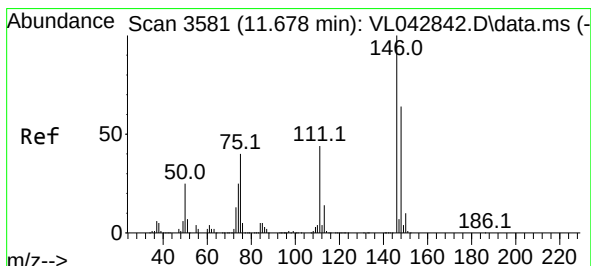
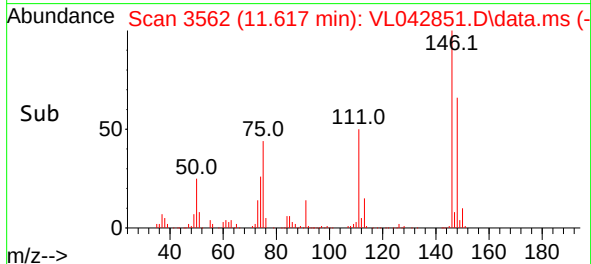
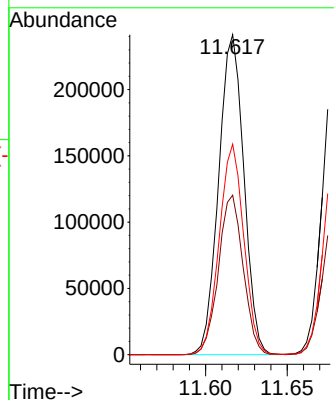
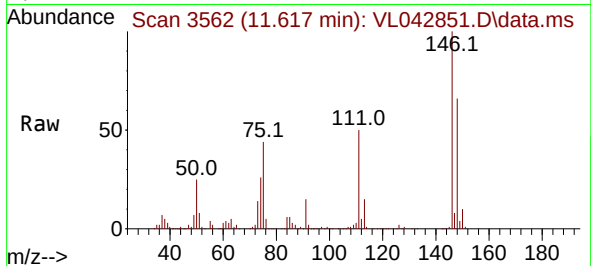




#75
1,3-Dichlorobenzene
Concen: 8.997 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

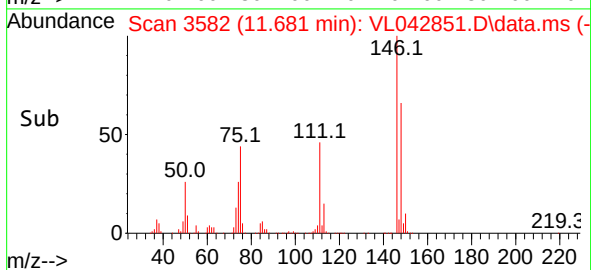
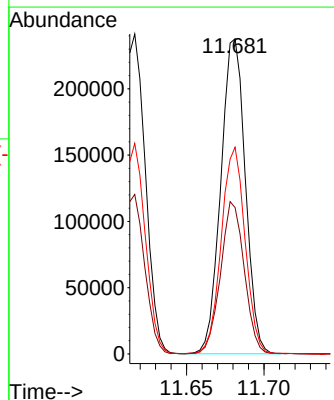
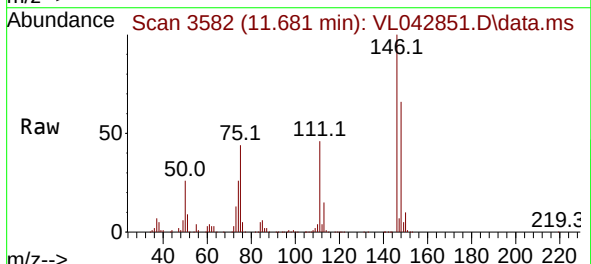
Instrument :
MSVOA_1
ClientSampleId :
VL0813ABS01

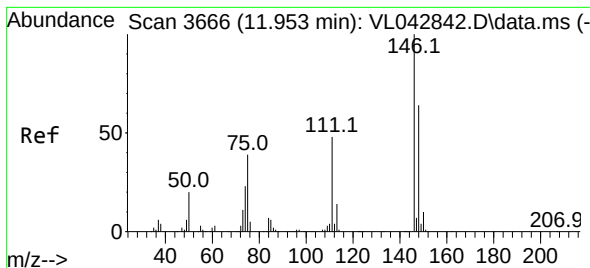
Tgt Ion:146 Resp: 259541
Ion Ratio Lower Upper
146 100
111 48.9 23.9 71.7
148 64.2 31.4 94.0



#76
1,4-Dichlorobenzene
Concen: 8.957 ppbv
RT: 11.681 min Scan# 3582
Delta R.T. 0.003 min
Lab File: VL042851.D
Acq: 13 Aug 2025 14:32

Tgt Ion:146 Resp: 261302
Ion Ratio Lower Upper
146 100
111 46.8 22.7 68.1
148 64.1 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 8.866 ppbv

RT: 11.956 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABS01

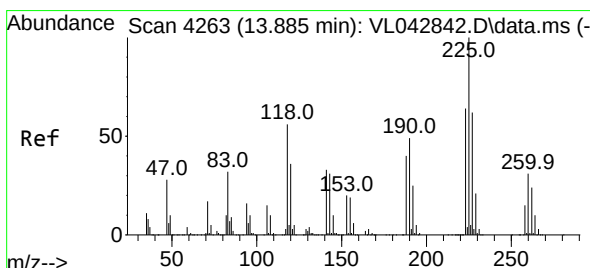
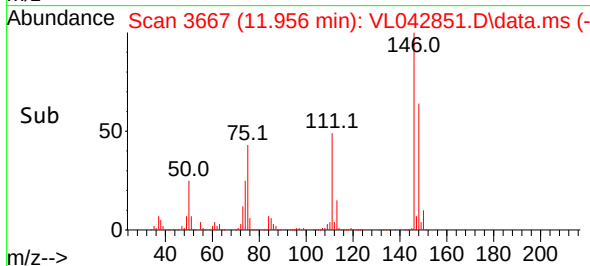
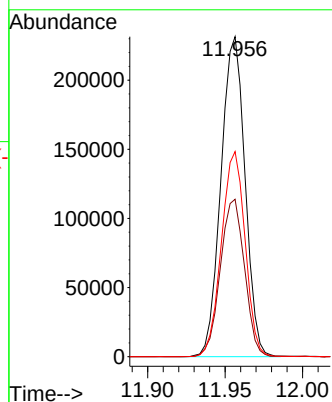
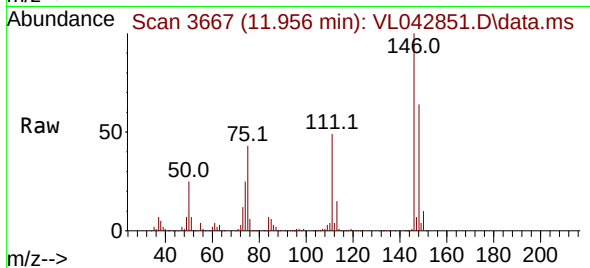
Tgt Ion:146 Resp: 250432

Ion Ratio Lower Upper

146 100

111 49.6 24.6 74.0

148 63.1 32.0 96.0



#78

Hexachloro-1,3-Butadiene

Concen: 7.488 ppbv

RT: 13.889 min Scan# 4264

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

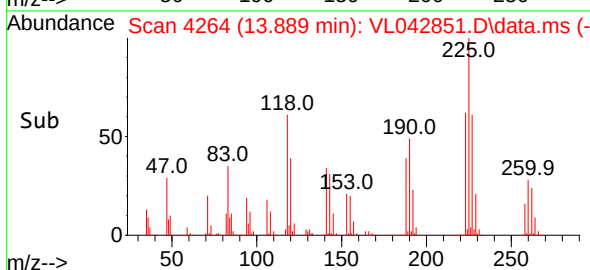
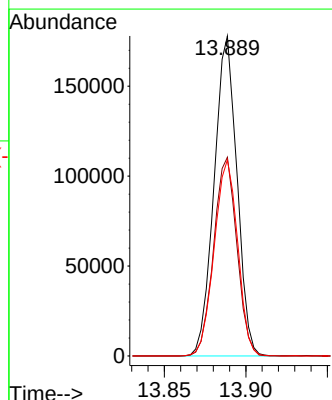
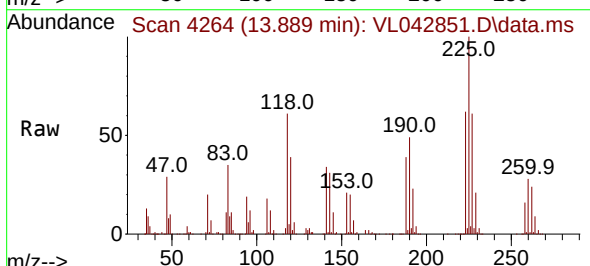
Tgt Ion:225 Resp: 173363

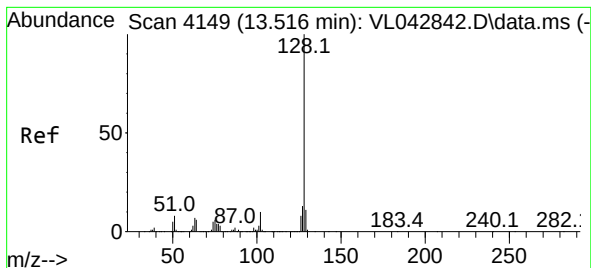
Ion Ratio Lower Upper

225 100

223 63.0 51.4 77.2

227 63.0 51.9 77.9





#79

Naphthalene

Concen: 8.930 ppbv

RT: 13.520 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABS01

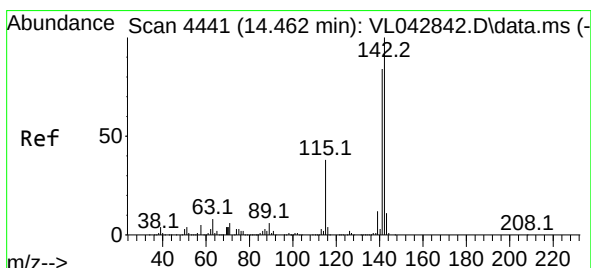
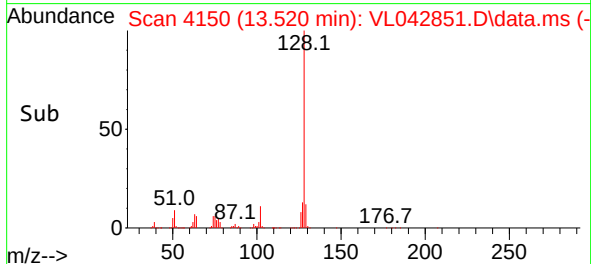
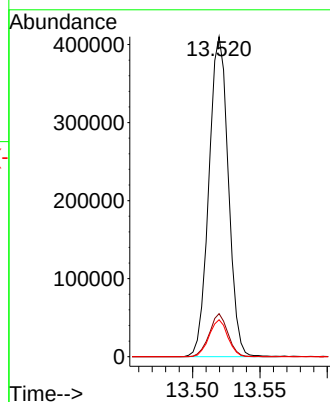
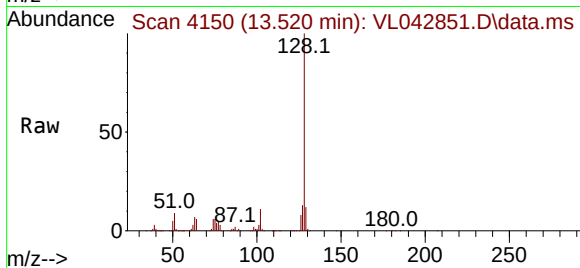
Tgt Ion:128 Resp: 410796

Ion Ratio Lower Upper

128 100

127 13.4 10.6 16.0

129 11.5 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 8.473 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. -0.000 min

Lab File: VL042851.D

Acq: 13 Aug 2025 14:32

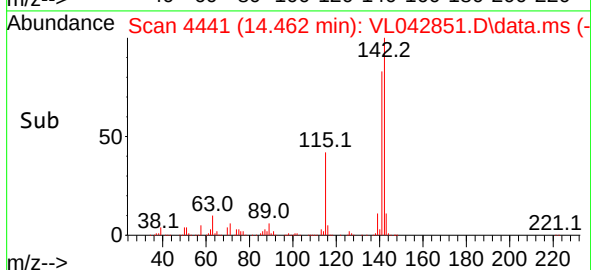
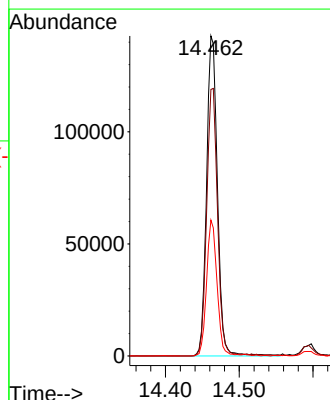
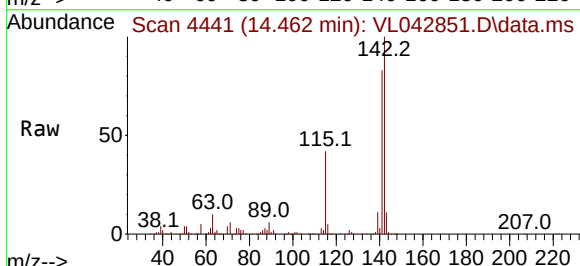
Tgt Ion:142 Resp: 145644

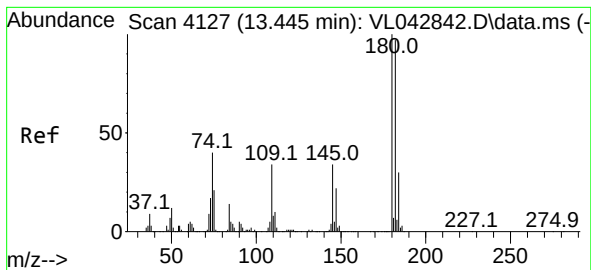
Ion Ratio Lower Upper

142 100

141 84.8 67.0 100.6

115 41.7 30.9 46.3





#81

1,2,4-Trichlorobenzene

Concen: 8.824 ppbv

RT: 13.445 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042851.D

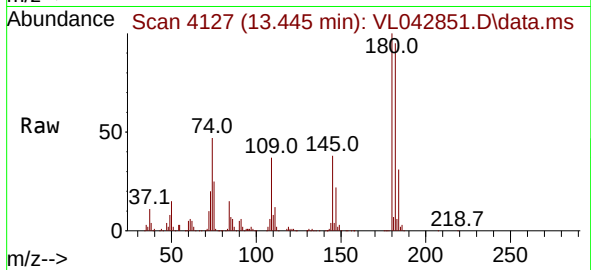
Acq: 13 Aug 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABS01



Tgt Ion:180 Resp: 204023

Ion Ratio Lower Upper

180 100

182 96.8 76.9 115.3

184 30.0 24.5 36.7

